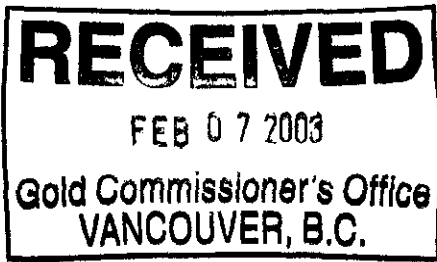


ASSESSMENT REPORT – 2002 EXPLORATION PROGRAM

KEMESS PROPERTY:

KEMESS NORTH DIAMOND DRILL PROGRAM



OMENICA MINING DIVISION
BRITISH COLUMBIA

CENTERED ON:

LATITUDE: 57° 00' North
LONGITUDE: 126° 50' West

NTS 94E/2 & 94D/15

-By-

Northgate Exploration Limited
1055 West Georgia Street
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December 2002

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27,083 10F7

1.0 EXECUTIVE SUMMARY

This report describes the exploration work that was completed at the Kemess Property over a field season of 174 days beginning May 24th 2002. The property is located just north of the McConnell Ranges approximately 430kms northwest of Prince George in the Toodoggone Mining camp.

The work focused on exploring the Kemess North deposit, which is being advanced by Northgate Explorations Ltd. Over the program 58 new holes were drilled and two previous holes were deepened for total of 33,686.31m in HQ, NQ and BQ diameter core. A total of 16,913 core samples were analyzed at ALS Chemex along with 667 samples being submitted as duplicates, blanks and standards. Twenty-eight samples were prepared for thin section analysis and sent to Graben Petrographics of Prince George.

Program objectives were to confirm and extend the mineralized envelope at Kemess North to a degree of confidence that would allow an ore reserve calculation. This entailed ensuring that the deposit area was covered by intersections on at least 100m intervals.

The results of the 2002 program confirmed earlier estimates of widths, grades and continuity in the "high grade porphyry system" beneath East Cirque at Kemess North. The most recent resource determination estimated that the deposit is 440Mt grading 0.23% copper and 0.4 gpt gold. A revised inventory calculation is in progress using the 2002 results in combination with all earlier programs.

The 2002 program explored areas satellite to Kemess North, known as Nugget and Kemess East. The work at Nugget was successful in defining another area of potentially economic mineralization, and provides the starting point for future exploration work.

A 7500m-diamond drill program is proposed for 2003, focusing on the area between Nugget and Kemess North. Additional targets in the Kemess Center area will be re-evaluated using the knowledge gained during the 2002 and earlier programs.

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2.0 INTRODUCTION

The Kemess Property is located approximately 430 kms northwest of the city of Prince George, British Columbia at 57°02' north longitude and 126°47' west latitude. The property is comprised of one active mining lease (#354991) and 185 surrounding and contiguous mineral claims which cover nearly 26,400 hectares. The Kemess South deposit, located on the mining lease, currently supplies mill-feed to a 48,000 tpd mill. In 2001, Northgate announced the discovery of a significant deposit at Kemess North, which is the focus of the 2002 program.

The Kemess Property is owned and operated by Kemess Mines Ltd., a 95% controlled subsidiary of Northgate Exploration Limited. Infrastructure consists of an office and maintenance building, a 400-person camp, a mill building, access and service roads and an airstrip. Most supplies are trucked into the property via all-season road access from Mackenzie British Columbia, while power is available directly from BC Hydro over a 380 km power line.

Kemess occurs at the southern end of the Toodoggone Mining camp, which describes a collection of occurrences and deposits found in Mesozoic volcanic rocks of the eastern Stikine Arch. Large-scale structures are present in the area, with a major terrain boundary present just 25kms east of the project area. The area is known for its Cu-Au porphyry deposits and low sulphidation epithermal Au-Ag vein deposits. Potential also exists for mesothermal vein deposits, skarn deposits, volcanic associated massive sulphide deposits and red-bed Cu deposits.

Fifty-eight diamond drill holes totaling 33,686.31 meters were drilled on the Kemess North (41), Kemess East (5) and Nugget (12) target areas during the 2002 program. A total of 16913 samples were prepared at the property and shipped to ALS Chemex in Vancouver for copper and gold analyses. Copper assays were performed using triple acid digestion followed by atomic absorption and gold was determined by fire assay methods.

3.0 LOCATION AND ACCESS

The Kemess Property is located in the mountainous area east of the Spatsizi Plateau and west of the Swannell Ranges near Thutade Lake approximately 250kms north of Smithers and 430kms northwest of Prince George at 57°02' north longitude and 126°47' west latitude. The property, shown in Figure 1, spans the boundary between the 94E and 94D NTS sheets and falls into the Omineca Mining Division.

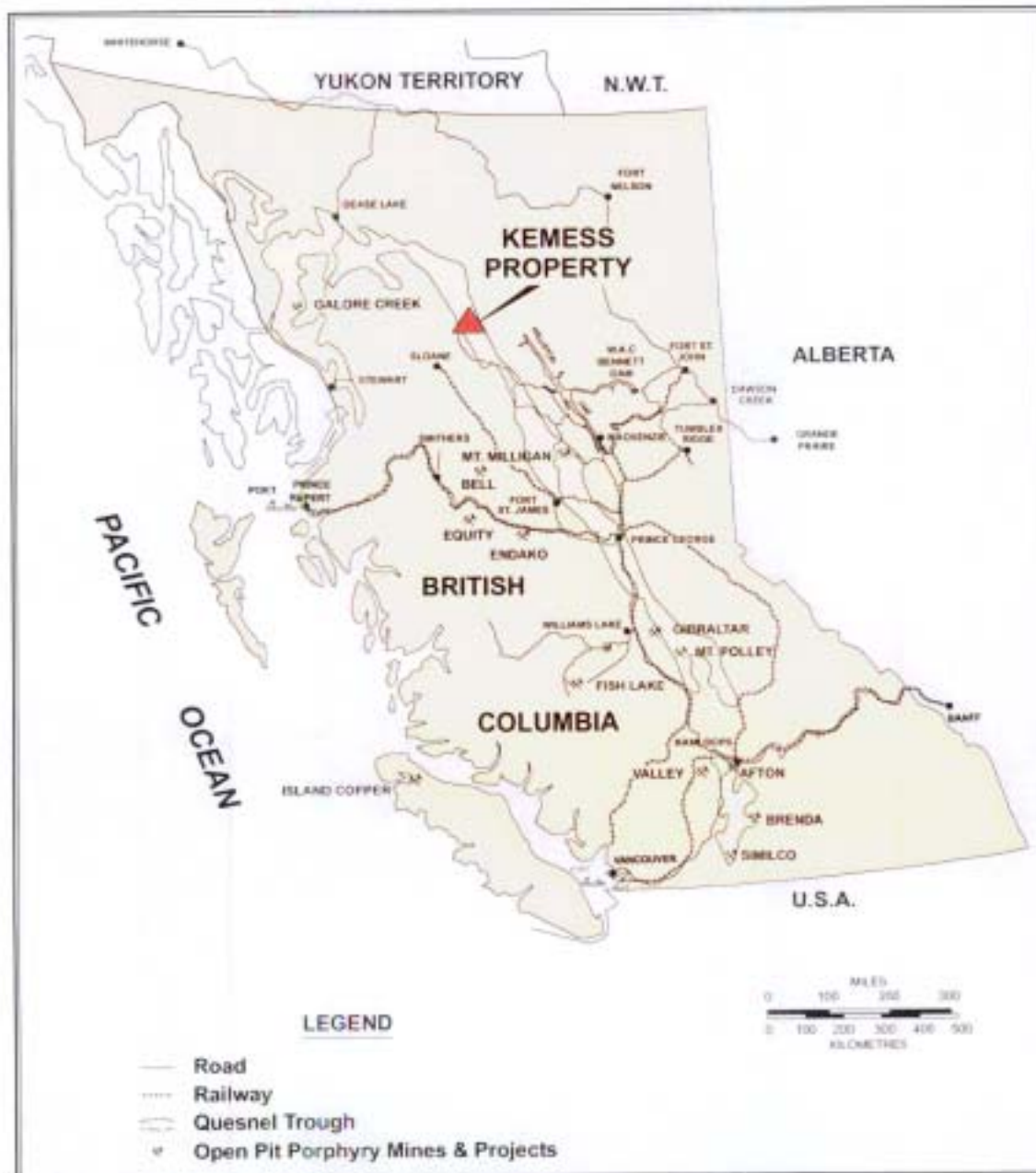


Figure 1 Kemess Property Location Map

Access to the project is provided by both air and road, as there are scheduled year-round flights from Smithers and Prince George to Kemess from Monday to Thursday. All season road access is available from the town of Mackenzie or Ft. St. James via the Omineca Resources Access road.

The area is characterized by broad, open, drift and moraine covered valleys, yielding to sub-alpine plateaus and rugged incised peaks and cirques. Elevations range from 1200m to 1800m, with the tree line occurring at 1500m. All the work completed during the 2002 program occurred above tree line in three

east-west trending cirques, which open to the north forming a common southern headwall. Lower elevations on the property are moderately vegetated with spruce-willow-birch forest, while poorly drained areas form peat bogs populated by alder brush, willow, and stunted spruce trees.

The climate is generally moderate, although snow can occur during any month. Temperatures range from -35°C to 30°C and average annual precipitation amounts to 890mm. In 2002 snow did not leave the higher elevations until late June.

4.0 CLAIM DATA

The Kemess Property is comprised of 185 staked mineral claims and one mining lease situated on Crown lands over an area of 26,075 hectares. The claims fall under the jurisdiction of the Omineca Mining Division of British Columbia located on NTS map sheets 94D15E&W, 94E006, 007,016 and 017.

Table 1 outlines the relevant claim information for the property as listed with Ministry of Sustainable Resource Management BC. Figure 2 shows a summary map of the claims relative to the local survey grid and Figure 3 details the individual claims comprising the Kemess Property. The Kemess North deposit and associated occurrences are located on the New Kemess 1, 2 and 3 claims.

Table 1. Claim Information

Rank	Claim Name	Tenure No.	Tag No.	Map No.	Status	Units	Hectares	Acres
1	AERO 1	343151	665841M	094E006	12/15/02	1	25	61.78
2	AERO 10	343160	665850M	094E006	12/15/02	1	25	61.78
3	AERO 2	343152	665842M	094E006	12/15/02	1	25	61.78
4	AERO 3	343153	665843M	094E006	12/15/02	1	25	61.78
5	AERO 4	343154	665844M	094E006	12/15/02	1	25	61.78
6	AERO 5	343155	665845M	094E006	12/15/02	1	25	61.78
7	AERO 6	343156	665846M	094E006	12/15/02	1	25	61.78
8	AERO 7	343157	665847M	094E006	12/15/02	1	25	61.78
9	AERO 8	343158	665848M	094E006	12/15/02	1	25	61.78
10	AERO 9	343159	665849M	094E006	12/15/02	1	25	61.78
11	AIR 1	315248	635301M	094E006	12/15/02	1	25	61.78
12	AIR 10	315257	635310M	094E016	12/15/02	1	25	61.78
13	AIR 11	315258	635311M	094E016	12/15/02	1	25	61.78
14	AIR 12	315259	635312M	094E016	12/15/02	1	25	61.78
15	AIR 13	315260	635313M	094E016	12/15/02	1	25	61.78
16	AIR 14	315261	635314M	094E016	12/15/02	1	25	61.78
17	AIR 15	315262	635315M	094E016	12/15/02	1	25	61.78
18	AIR 16	315263	635316M	094E016	12/15/02	1	25	61.78
19	AIR 17	315264	635317M	094E016	12/15/02	1	25	61.78
20	AIR 18	315265	635318M	094E016	12/15/02	1	25	61.78
21	AIR 19	315266	635319M	094E016	12/15/02	1	25	61.78
22	AIR 2	315249	635302M	094E006	12/15/02	1	25	61.78
23	AIR 20	315267	635320M	094E016	12/15/02	1	25	61.78
24	AIR 21	315268	635321M	094E016	12/15/02	1	25	61.78
25	AIR 22	315269	635322M	094E016	12/15/02	1	25	61.78
26	AIR 23	315270	635323M	094E016	12/15/02	1	25	61.78
27	AIR 24	315271	635324M	094E016	12/15/02	1	25	61.78
28	AIR 25	315272	635325M	094E016	12/15/02	1	25	61.78
29	AIR 26	315273	635326M	094E016	12/15/02	1	25	61.78
30	AIR 27	315274	635327M	094E006	12/15/02	1	25	61.78

Rank	Claim Name	Tenure No.	Tag No.	Map No.	Status	Units	Hectares	Acres
31	AIR 28	315275	635328M	094E006	12/15/02	1	25	61.78
32	AIR 3	315250	635303M	094E006	12/15/02	1	25	61.78
33	AIR 4	315251	635304M	094E006	12/15/02	1	25	61.78
34	AIR 5	315252	635305M	094E006	12/15/02	1	25	61.78
35	AIR 6	315253	635306M	094E006	12/15/02	1	25	61.78
36	AIR 7	315254	635307M	094E006	12/15/02	1	25	61.78
37	AIR 8	315255	635308M	094E006	12/15/02	1	25	61.78
38	AIR 9	315256	635309M	094E016	12/15/02	1	25	61.78
39	ALISON 1	243440	204491	094E007	12/15/03	20	500	1235.6
40	ALISON 2	243441	204472	094E007	12/15/03	20	500	1235.6
41	ATTY 1	343143	232741	094E006	12/15/03	20	500	1235.6
42	ATTY 2	343144	232742	094E006	12/15/03	20	500	1235.6
43	ATTY 3	343145	232743	094E006	12/15/03	20	500	1235.6
44	ATTY 4	343146	232744	094E006	12/15/02	20	500	1235.6
45	ATTY 5	343147	232745	094E006	12/15/02	15	375	926.7
46	ATTY 6	343148	232746	094E006	12/15/03	15	375	926.7
47	ATTY 7	343149	232747	094E017	12/15/03	20	500	1235.6
48	ATTY 8	343150	232748	094E007	12/15/03	20	500	1235.6
49	CAN 1	243063	220263	094E007	12/15/03	20	500	1235.6
50	CHIKA 1	243074	220274	094D15E	12/15/03	20	500	1235.6
51	CHIKA 2	243075	220275	094D15E	12/15/03	8	200	494.24
52	CREEK	243067	220267	094E007	12/15/03	12	300	741.36
53	D.C. 1	304015	635270M	094E007	12/15/03	1	25	61.78
54	D.C. 2	304016	635271M	094E007	12/15/03	1	25	61.78
55	D.C. 3	304017	635272M	094E007	12/15/03	1	25	61.78
56	D.C. 4	304018	635273M	094E007	12/15/03	1	25	61.78
57	D.C. 5	304019	635274M	094E007	12/15/03	1	25	61.78
58	DAM 1	355413	665857M	094D15E	12/15/10	1	25	61.78
59	DAM 2	355414	665858M	094D15E	12/15/10	1	25	61.78
60	DAM 3	355415	665859M	094E007	12/15/10	1	25	61.78
61	DAM 4	355416	665860M	094E007	12/15/10	1	25	61.78
62	DU	238819	97170	094E007	12/15/10	20	500	1235.6
63	DU 2	242573	210087	094E007	12/15/10	20	500	1235.6
64	DUE 5	242579	612759M	094E007	12/15/10	1	25	61.78
65	DUE 6	242580	612760M	094E007	12/15/10	1	25	61.78
66	DUN 1	310076	223627	094E007	12/15/03	9	225	556.02
67	DUN 2	310077	223628	094E007	12/15/03	9	225	556.02
68	DUN 3	310078	223629	094E007	12/15/03	9	225	556.02
69	DUNC 1	243064	220264	094E007	12/15/03	4	100	247.12
70	DUNC 2	243065	220265	094E007	12/15/03	4	100	247.12
71	DUNC 3	243066	220266	094E007	12/15/03	6	150	370.68
72	FORK 1	355409	665893M	094E007	12/15/10	1	25	61.78
73	FORK 2	355410	665897M	094E007	12/15/10	1	25	61.78
74	FORK 3	355411	665898M	094E007	12/15/10	1	25	61.78
75	FORK 4	355412	665899M	094E007	12/15/10	1	25	61.78
76	FRED	243070	220270	094E007	12/15/10	6	150	370.68
77	FREDDY 1	304008	635261M	094E007	12/15/10	1	25	61.78
78	FREDDY 2	304009	635262M	094E007	12/15/03	1	25	61.78
79	FREDDY 3	304010	635263M	094E007	12/15/03	1	25	61.78
80	FREDDY 4	304011	635264M	094E007	12/15/03	1	25	61.78
81	FREDDY 5	304012	635265M	094E007	12/15/10	1	25	61.78
82	FREDDY 6	304013	635266M	094E007	12/15/10	1	25	61.78
83	FREDDY 7	304014	635267M	094E007	12/15/10	1	25	61.78
84	GOLD 1	305548	634705M	094E007	12/15/03	1	25	61.78
85	GOLD 2	305549	634706M	094E007	12/15/03	1	25	61.78
86	GOLD 3	305550	634707M	094E007	12/15/03	1	25	61.78
87	GOLD 4	305551	634708M	094E007	12/15/03	1	25	61.78
88	GOLD 5	305552	634709M	094E007	12/15/03	1	25	61.78

Rank	Claim Name	Tenure No.	Tag No.	Map No.	Status	Units	Hectares	Acres
89	GOLD 6	305553	634710M	094E007	12/15/03	1	25	61.78
90	GOLD 7	305554	634711M	094E007	12/15/03	1	25	61.78
91	GOLD 8	305555	634712M	094E007	12/15/03	1	25	61.78
92	GOZ 1	304706	634702M	094E007	12/15/03	1	25	61.78
93	GOZ 2	304707	634703M	094E007	12/15/03	1	25	61.78
94	HENA 10	311294	634568M	094E007	12/15/03	1	25	61.78
95	HENA 33	311261	634575M	094E007	12/15/10	1	25	61.78
96	HENA 34	311262	634576M	094E007	12/15/10	1	25	61.78
97	HENA 35	311263	634577M	094E007	12/15/10	1	25	61.78
98	HENA 36	311264	634578M	094E007	12/15/10	1	25	61.78
99	HENA 37	311265	634579M	094E007	12/15/10	1	25	61.78
100	HENA 38	311266	634586M	094E007	12/15/10	1	25	61.78
101	HENA 39	311267	648194M	094E007	12/15/10	1	25	61.78
102	HENA 40	311268	648195M	094E007	12/15/10	1	25	61.78
103	HENA 7	311291	633946M	094E007	12/15/03	1	25	61.78
104	HENA 8	311292	633940M	094E007	12/15/03	1	25	61.78
105	HENA 9	311293	634567M	094E007	12/15/03	1	25	61.78
106	KC 1	309045	224244	094D15E	12/15/03	20	500	1235.6
107	KC 10	309054	635258M	094D15E	12/15/03	1	25	61.78
108	KC 11	309055	635259M	094D15E	12/15/03	1	25	61.78
109	KC 12	309056	635275M	094D15E	12/15/03	1	25	61.78
110	KC 13	309057	635276M	094D15E	12/15/03	1	25	61.78
111	KC 14	310032	635253M	094D15E	12/15/03	1	25	61.78
112	KC 15	310033	635252M	094D15E	12/15/03	1	25	61.78
113	KC 2	309046	634584M	094D15E	12/15/03	1	25	61.78
114	KC 3	309047	634585M	094D15E	12/15/03	1	25	61.78
115	KC 4	309048	634587M	094D15E	12/15/03	1	25	61.78
116	KC 5	309049	634588M	094D15E	12/15/03	1	25	61.78
117	KC 6	309050	634589M	094D15E	12/15/03	1	25	61.78
118	KC 7	309051	634590M	094D15E	12/15/03	1	25	61.78
119	KC 8	309052	635268M	094D15E	12/15/03	1	25	61.78
120	KC 9	309053	635269M	094D15E	12/15/03	1	25	61.78
121	KC16	310034	635250M	094D15E	12/15/03	1	25	61.78
122	KC17	310035	635249M	094D15E	12/15/03	1	25	61.78
123	KC18	310036	635251M	094D15E	12/15/03	1	25	61.78
124	KC19	310037	635248M	094D15E	12/15/03	1	25	61.78
125	LA 1	243354	633950M	094E007	12/15/10	1	25	61.78
126	LA 2	243355	607769M	094E007	12/15/10	1	25	61.78
127	LA 3	243356	607770M	094E006	12/15/10	1	25	61.78
128	LA 4	243357	607771M	094E006	12/15/10	1	25	61.78
129	LA 5	243358	607772M	094E006	12/15/10	1	25	61.78
130	LA 6	243359	607773M	094E006	12/15/10	1	25	61.78
131	LA 7	243360	607774M	094E006	12/15/10	1	25	61.78
132	LA 8	243361	607775M	094E006	12/15/10	1	25	61.78
133	LAKE 1	243362	224438	094E006	12/15/10	20	500	1235.6
134	LAKE 2	243363	224439	094E006	12/15/10	20	500	1235.6
135	MILL CREEK 1	355405	677457M	094E007	12/15/10	1	25	61.78
136	MILL CREEK 2	355406	677458M	094E007	12/15/10	1	25	61.78
137	MILL CREEK 3	355407	677459M	094E007	12/15/10	1	25	61.78
138	MILL CREEK 4	355408	677460M	094E007	12/15/10	1	25	61.78
139	NEK 1	241957	120209	094E007	12/15/10	12	300	741.36
140	NEK 2	241958	120210	094E007	12/15/10	10	250	617.8
141	NEK 3	241959	120226	094E007	12/15/10	20	500	1235.6
142	NEK 4	242574	210086	094E007	12/15/10	14	350	864.92
143	NEW KEMESS 3	241960	120227	094E007	12/15/10	15	375	926.7

Rank	Claim Name	Tenure No.	Tag No.	Map No.	Status	Units	Hectares	Acres
144	NEW KEMESS NO.1	237800	9355	094E007	12/15/10	18	450	1112.04
145	NEW KEMESS NO.2	237801	9356	094E007	12/15/10	20	500	1235.6
146	NOR 10	303614	117180	094D15W	12/15/10	8	200	494.24
147	NOR 11	303615	117181	094D15W	12/15/10	4	100	247.12
148	NOR 12	303616	117179	094E006	12/15/03	3	75	185.34
149	NOR 15	305630	210202	094D15W	12/15/10	8	200	494.24
150	NOR 2	239096	104647	094E006	12/15/03	10	250	617.8
151	NOR 3	239097	104639	094E006	12/15/03	9	225	556.02
152	NOR 4	239098	104636	094D15W	12/15/10	18	450	1112.04
153	NOR 5	242991	219880	094D15E	12/15/10	16	400	988.48
154	NOR 6	242992	219881	094D15E	12/15/10	16	400	988.48
155	NOR 7	350859	232604	094D15W	12/15/10	18	450	1112.04
156	NOR 8	301219	209384	094D15W	12/15/10	6	150	370.68
157	POND 1	243076	607765M	094E007	12/15/03	1	25	61.78
158	POND 2	243077	607766M	094E007	12/15/10	1	25	61.78
159	POND 3	243078	607767M	094E007	12/15/10	1	25	61.78
160	POND 4	243079	607768M	094E007	12/15/10	1	25	61.78
161	RAT 1	239994	108063	094E007	12/15/10	9	225	556.02
162	RAT 2	243165	220305	094E007	12/15/10	10	250	617.8
163	RAT 3	243166	220306	094E007	12/15/10	20	500	1235.6
164	RATED	243069	220269	094E007	12/15/10	20	500	1235.6
165	RIDGE 1	364550	233896	094E006	12/15/02	18	450	1112.04
166	RIDGE 2	364551	233897	094E006	12/15/02	18	450	1112.04
167	RIDGE 3	364552	233898	094E006	12/15/02	18	450	1112.04
168	RIK	243071	220271	094D15E	12/15/10	20	500	1235.6
169	RON 10	350860	232605	094E007	12/15/10	20	500	1235.6
170	RON 11	238706	89109	094E007	12/15/10	10	250	617.8
171	SEM #1	241014	109800	094E007	12/15/10	16	400	988.48
172	SER	243068	220268	094E007	12/15/03	20	500	1235.6
173	SON 1	243072	220272	094D15E	12/15/03	20	500	1235.6
174	SON 2	243073	220273	094D15E	12/15/03	10	250	617.8
175	SR 1	304020	635280M	094E007	12/15/03	1	25	61.78
176	SR 2	304021	635279M	094E007	12/15/03	1	25	61.78
177	SR 3	304022	635278M	094E007	12/15/03	1	25	61.78
178	SR 4	304023	635277M	094E007	12/15/03	1	25	61.78
179	SR 5	310075	223626	094E007	12/15/10	8	200	494.24
180	SR 6	310054	633948M	094E007	12/15/03	1	25	61.78
181	SR 7	310055	633941M	094E007	12/15/03	1	25	61.78
182	SR 8	310056	633944M	094E007	12/15/03	1	25	61.78
183	TISZI 1	243442	224443	094E007	12/15/10	20	500	1235.6
184	TISZI 2	243443	224444	094E007	12/15/10	20	500	1235.6
185	WASTE 1 FR.	325176	223652	094E007	12/15/03	1	25	61.78
185				TOTAL		1023	25575	63200.94

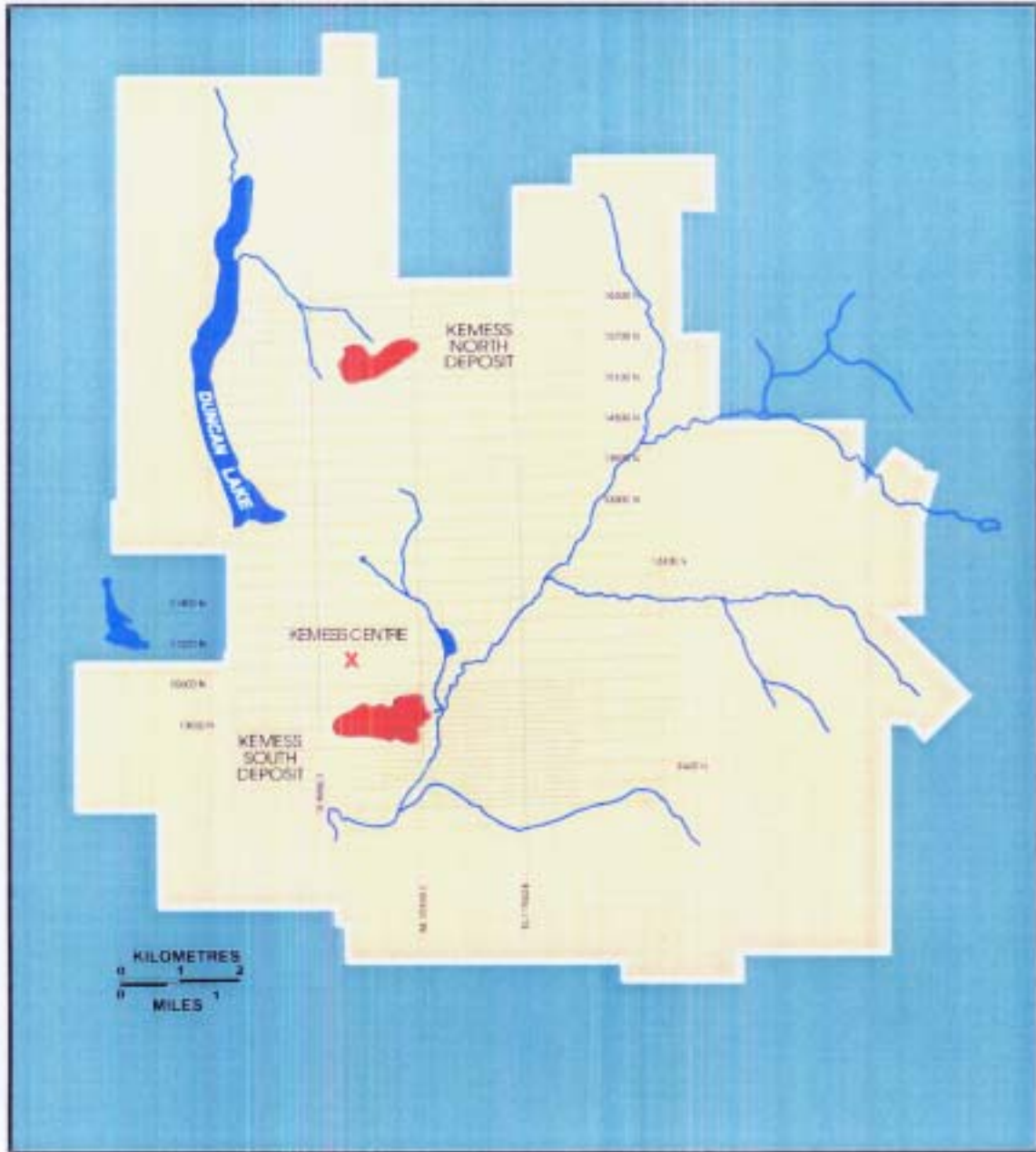


Figure 2 General Claims outline with cut grid and deposits.



Figure 3 Detailed Kemess Claim Map.

5.0 DISTRICT EXPLORATION AND MINING HISTORY

The earliest reports of exploration activity in the area date back to the discovery of placer gold at the mouth of McConnell Creek in 1889. Several years later there was a brief staking rush in 1907 and prospecting remained active in the area through the early 1920's resulting in a placer discovery at McClair Creek. Cominco Ltd. was active in the area in the 1930's exploring for base metals. During this period Emile Bronlund discovered and staked several skarn showings; the Cairn showing is a nearby occurrence from this era that is located on Duncan Ridge, 6 kms west of Kemess North.

In 1966 Kennecott focused on the area searching for Cu-porphyry systems using stream geochemical techniques and prospecting; this work resulted in claim staking and field work on several prospects including Kemess North, Pine, Fin, Chapelle (aka Baker), Shasta and Lawyers. The latter three deposits are gold-silver epithermal vein systems that eventually produced during the early 1980's. Kennecott's work opened the area up with respect to potential for Cu-Au porphyry systems, and the ensuing work at Kemess North is summarized below in Table 2.

Table 2. Kemess North Work History

Period	Company	Work Completed
1966 to 1971	Kennco Explorations Ltd. (Western)	Regional stream and soil geochemistry, staked 100 two post mineral claims; completed soil silt and rock geochemical surveys, mapping @ 1:9600 scale and completed 232m of xray core drilling in 8 holes.
1975 to 1976	Getty Mines Ltd and Shell Oil	Optioned property from Kennco and completed 1:4800 scale mapping, orthomapping, restaking, geochemical surveying and 2065m of diamond drilling in 13 holes (75-18 to 76-30). Option dropped in 1977.
1986 to 1992	El Condor Resources Ltd.	In 1986 El Condor optioned the property from Kennco and commenced sustained exploration that resulted in the discovery at Kemess South. Over a 6 year period at Kemess North, El Condor collected 1025 rock samples and 5402 geochem samples; completed 76.85 kms of ground EM, 14.1 kms of ground magnetic surveying, 161.4 kms of IP, and drilled 14327.92m of core in 69 holes. Additional work included 167 kms of linecutting, 54.5kms of roads, and 475m of cat trenching. A resource of 157Mt @ 0.37 gpt Au and 0.18% Cu resulted at Kemess North.
2000 to 2002	Northgate Explorations Ltd.	2000 - 4104.45m of diamond drilling in 12 holes identified a new higher grade porphyry zone located east of El Condor's discovery. This work increased the resource at Kemess North to 360 Mt @ 0.299 gpt Au and 0.154% Cu. 2001 - 8220.48m of diamond drilling in 16 holes which increased resources to 442Mt @ 0.40 gpt Au and 0.23% Cu

6.0 REGIONAL GEOLOGY

Mesozoic arc-related volcanic rocks that comprise the eastern margin of the Intermontane Belt underlie the district over an area measuring 100 by 40 kms. The oldest rocks in the belt are Permian Asitka Group, which are disconformably overlain by upper Triassic Takla Group, which are in turn unconformably overlain by lower-middle Jurassic Hazelton Group; overlapping all these assemblages to the west are upper Cretaceous Sustut Group sediments. The lithologic units comprising the stratigraphic succession are described in Table 3 below.

Intrusive rocks are prevalent in the area and have been categorized as late Triassic Alaskan-type ultramafics such as pyroxene diorite, hornblende gabbro and pyroxenite. Economically more significant are the early Jurassic intrusives of the Black Lake suite, which are granodiorite, hornblende diorite, pyroxene quartz-diorite, quartz-monzonite and quartz monzodiorite. Important plutonic masses are the Duncan Lake stock (197.3 Ma), the Sovereign stock (202.7 Ma) and the

Maple Leaf pluton (199.6 Ma). The latter hosts the Cu-Au deposit at Kemess South.

Table 3. Regional Stratigraphy (Cope 1992)

Age	Lithostratigraphic Unit	Description
Cretaceous	Sustut Group	Sustut rocks grade from Brothers Peak Formation conglomerate, sandstone, mudstone with minor tuffaceous units down to the basal <i>Tango Creek Formation polymictic conglomerate, sandstone, mudstone with minor lignite seams.</i>
L-M Jurassic	Hazelton Group	Uppermost unit, Smithers Formation is dominated by greywacke, lithic sandstone, siltstone, tuffaceous shale, volcanic breccia, conglomerate and limestone. Below lies the Nilkitkwa Formation, which is mainly shale, greywacke, andesitic-rhyolitic tuff with minor limestone. In the Kemess area the quartz phyric volcanoclastic rocks of the Toodoggone Formation are believed to be correlative to the Nilkitkwa. The basal assemblage, Telkwa Formation comprises basaltic to rhyolitic pyroclastic and flow rocks.
U. Triassic	Takla Group	Highest units are Moosevale Formation augite porphyry, breccia, sandstone and mudstone. Central assemblage is Savage Mtn. Formation comprised of flows and pyroclastic augite porphyritic volcanic rocks. Base of the exposed sequence is Dewar Formation argillite, limestone and siltstone.
Mid Pennsylvanian Permian	Asitka Group	Uppermost units are dominated by limestone and tuff, which give way to a middle assemblage of basaltic flows and rhyolite. The lowermost units are basalt, argillite, chert and limestone.

The map shown in Figure 4 from Diakow and Panteleyev shows the district geology, major intrusive masses and deposits.

7.0 STRUCTURAL SETTING

For the most part the volcanic Mesozoic assemblages are upright shallowly dipping flat-lying sequences crosscut by high angle north to northwest trending faults. Significant structures are the Finlay-Ingenika and Moosevale fault systems, which bound the eastern margin of the belt. These structures are dextral strike-slip features that are related to the terrain bounding faults between the Intermontane and Omineca belts.

More local to Kemess North are the Duncan and Saunders Faults, which are north-northwest normal block fault structures. Thrust faulting is present in the district and is interpreted as Eocene or younger; displacement believed to be towards the northeast and effects rocks from the Takla up to Sustut sediments.

The district represents the results of three superimposed volcanic arc building stages that began in the upper Paleozoic. Marine volcanic and sedimentary successions dominated until the lower-middle Jurassic, when continental, quartz-



Figure 4 Regional Geology (Diakow & Panteleyev GSBC#86)

normative volcanism began with the deposition of the Hazelton Group-Toodoggone Formation sequences. The plutonic rocks of the Black Lake suite are coeval with the Toodoggone sequence and are likely co-magmatic. Block faulting has juxtaposed panels of varying depth into the magmatic and volcanic systems. The structures and intrusives likely had a strong influence on the eventual positioning of volcanic centers.

8.0 PROPERTY GEOLOGY

8.1 INTRODUCTION

The Kemess North property is underlain by upper Triassic (Takla Group) andesite/basaltic volcanics and to a lesser extent lower Jurassic (Toodoggone Formation) dacitic fragmental volcanics. Stocks, dykes and possible sills of quartz monzonite/quartz diorite composition have intruded the Takla succession and are also lower Jurassic in age. Structurally the deposit area is transected by steeply dipping north to northwest trending normal faults. A laterally extensive, shallow dipping to flat lying, highly fractured broken zone occurs at or close to surface.

Porphyry style Au/Cu mineralization occurs within the Takla volcanic rocks and intermediate intrusive rocks associated with weak to pervasive propylitic, potassic (biotitic), and phyllic alteration assemblages. Alteration of Toodoggone assemblages ranges from fresh to weak propylitic and is generally barren of significant sulphides and ore grade mineralization. Figure 5 shows the general property geology in the area around Kemess North.



8.2 LITHOLOGY

Andesite Volcanics (Takla Group-T3)

The property is predominantly underlain by a thick (>1000m) succession of andesitic flows. The flows exhibit textures ranging from fine grained and massive to porphyritic with medium grained and mostly phyrlic, subhedral augite phenocrysts. Less common are phenocrysts of plagioclase. The fine-grained matrix is mostly comprised of plagioclase, quartz, and chlorite. The plagioclase is usually sericitized. Rare intersections of auto-brecciated flows occur as coarse sub-rounded andesitic clasts within both phyrlic and finer grained flows. The Takla volcanic rocks host a significant portion of the Au-Cu mineralization.

On surface, exposed in the cirque headwalls and some upper intersections of drill intercepts is a bladed feldspar porphyritic unit. It exhibits a very well developed porphyritic texture with bladed feldspar laths of plagioclase up to 1.5 cm long within a finer grained dark gray matrix. Its texture suggests a hypabyssal origin or possibly an extrusive dome type emplacement.

Dacitic Polyolithic Fragmental (Hazelton Group(H3):Toodoggone Formation)

Mantling the northern and eastern limits of the Kemess North area is a matrix supported polyolithic fragmental volcanic unit. Sub-rounded angular coarse fragments of bladed feldspar porphyry, andesite, monzonite and rare quartz-feldspar porphyry or chert occur within a siliceous (dacite) matrix. Lithic proportion to matrix is inconsistent ranging from 1-30% volumetrically, with clast size varying from lapilli to blocks. The matrix is fine-grained, dark gray comprised of 10-30% medium grained feldspar and diagnostic (5%) quartz phenocrysts. Magnetite is common as an accessory mineral occurring as very fine-grained disseminations as is distinctive zeolite-calcite veinlets. Propylitic (epidote-calcite-pyrite) alteration is dominant within the fragmental, however narrow (10-20m) zones of phyllic (quartz-sericite-pyrite) alteration are present near discordant contacts with the Takla Group. The phyllic sections can carry anomalous gold concentrations.

The Polyolithic Fragmental Dacite is an enigmatic unit as it shows field relations suggestive of both an extrusive and intrusive emplacement mechanism. Diamond drill sections in East Cirque show a WNW striking steeply south dipping irregular contact between mineralized Takla andesite and the dacitic fragmental, and in one instance quartz-phyric polyolithic fragmental occurs within monzonite (KN-02-05 @ 524.68m). In Central Cirque an unaltered flat lying dacitic fragmental unit overlies quartz-sericite altered mineralized Takla Group (KN-02-55). At the Nugget Zone a thin (5 metre) zone of the dacitic fragmental crosscuts Takla Group andesite (KN-02-50 @ 404.4m). Commonly present within the dacitic fragmental are inclusion-rich irregular granitoid masses typically logged as crowded feldspar porphyry or monzonite. These masses are interpreted to be younger sub-volcanic intrusives related genetically to the Toodoggone Formation.

The evidence suggests that basement structures and conduits that allowed extrusion of the local Toodoggone volcanic assemblage underlie the Kemess North area.

Quartz Monzonite/Quartz Diorite

These intermediate intrusive units are comprised of subhedral phenocrysts of 50% plagioclase and <10% quartz set in a groundmass of quartz-feldspar-chlorite +/- biotite with accessory minerals including; magnetite, apatite, carbonate, rutile, ilmenite, sphene. The quartz monzonite does not reach surface and outcrop. To remain consistent with earlier work the field-term monzodiorite and quartz monzonite has been retained, however petrographic work shows that the mineralized granitoid underlying East Cirque is more correctly classified as a quartz diorite due to the paucity (< 5% to absent) of alkali feldspars.

The main quartz monzonite mass beneath East Cirque hosts the bulk of the Cu-Au mineralization at Kemess North.

Post-Mineral Dykes

Post-ore dykes, including feldspar porphyry and minor mafic varieties cross cut Takla volcanics and outcrop locally in cirque highwalls and along ridges. The feldspar porphyry dykes also cross cut the Jurassic-Toodoggone fragmental unit. The feldspar dykes commonly exhibit pervasive dark pink hematite within the matrix and as staining of the medium grained feldspar phenocrysts. Due to the pink colour of the feldspars, these dykes take the field term syenite and are generally barren and unaltered. The relationship of the feldspar dykes with the larger quartz diorite stocks is not clear, however they appear temporally late in the sequence of events. Mafic dykes are generally thin at < 1 to 4 metres wide, dark green and barren of sulphides and veining. Observations from regional mapping suggest they are related to the volcanic strata interbedded within Sustut Group sedimentary rocks and are interpreted as Cretaceous.

8.3 STRUCTURE

Due to the lack of bedding and/or marker horizons, the inclination of the massive thick succession of Takla volcanics is difficult to ascertain but probably reflects the regional trend of flat lying Mesozoic assemblages.

At least three steeply dipping, northwest trending normal faults have been inferred from surface mapping and drilling to transect the Kemess North property. Fault spacing ranges from 500 and 1500 metres and they are generally parallel to the Duncan and Saunders Faults located west and east respectively.

Gold-copper mineralization forms an inclined tabular zone that is centred on the East Cirque porphyritic monzodiorite, which from structural contours, strikes east-west and dips south at 20°. The quartz diorite/quartz monzonite intrusive exhibits an irregular upper contact with various peaks and troughs. The general

east-west strike and shallow south dip geometry is consistent for over 400 metres (10660E to 10180E). Between 10260E and 10160E the tabular morphology disappears and the monzonite occurs as wide dykes (10 to 100 metres wide) within Takla volcanics. The change in geometry for the monzonite could be due to the effects of cross-faulting that have down dropped the tabular upper contact present in East Cirque, or the rheologic conditions during intrusion changed going towards the west whereby steep fracture infilling was preferred over stoping.

A flat-lying zone of intensely broken rock and multiple gouge zones are collectively referred to as the "Broken Zone" and result in poor drilling conditions above the deposit. The Broken Zone averages about 80 metres from surface to competent bedrock and is comprised of clay, multiple gouge zones and a pyritic-argillic alteration component. The interface between the Broken Zone and the underlying competent volcanics is generally sharp where phyllic meets chlorite-biotite alteration assemblages. The post-mineral porphyritic feldspar dykes remain unaltered and competent within the Broken Zone phyllic alteration.

There are several hypotheses for the formation of the Broken Zone. The theories range from the effects of present day weathering, porphyry related alteration zonation, to the tectonic end products of shallow faulting and thrusting. Key features to consider are that the broken zone underlies and is adjacent to highly competent, unaltered, siliceous Toodoggone fragmental rocks. This suggests that the alteration occurred in the early Jurassic before the emplacement of the dacitic fragmental unit. The most plausible explanation is that the Broken Zone and related phyllic alteration are due to pre-Toodoggone weathering processes.

8.4 ALTERATION, VEINING AND MINERALIZATION

Alteration and mineralization is associated with, and zoned both vertically and laterally from the quartz diorite/quartz monzonite intrusive intersected at depth beneath East Cirque.

The highest grade Au-Cu zones occur focused on the quartz monzonite – Takla volcanic contact associated with quartz-magnetite veining and overprinting pyrite-chalcopyrite veining. The zone comprises 50-60% fine-grained quartz, 20-30% magnetite, 5-10% pyrite, 1% chalcopyrite, with accessory hematite and anhydrite occurring over widths of < 10 to 150 metres. Styles of quartz infill range from high-density parallel quartz veining to pervasive silicification with magnetite. This zone occurs mostly within the quartz monzonite stock and to a lesser extent within the andesite adjacent to the intrusive stock. The protolith is commonly completely replaced. The quartz monzonite/quartz diorite stock and associated quartz-magnetite zone is interpreted as the heat source driving the porphyry copper-gold system at Kemess North.

Grading outwards from the East Cirque stock into the Takla volcanics, silicification decreases gradually to fine-grained assemblages of chlorite-biotite-sericite, which volumetrically constitutes the bulk of the mineralization. This pattern is a broad generalization and there are areas of either potassic (biotitic) or propylitic (chloritic) alteration that occurs sporadically.

Sericitization commonly from the destruction of matrix and phenocryst plagioclase, is pervasive in the Takla volcanic rocks. Accompanying sericitization are assemblages of quartz-anhydrite-ankerite-magnetite veinlets with disseminated pyrite-chalcopyrite mineralization. Present over the entire area in all rock units except the late mafic dykes are barren pinkish zeolite-carbonate veins, which post-date and crosscut the above vein types and rock units.

The uppermost (outermost?) alteration zone is the phyllic or "QSP" zone, which consists mostly of sericite-chlorite-quartz +/- pyrite and forms the extensive Broken Zone and bright orange-red outcrops at surface. Pyrite is common throughout (5-7%) as both disseminated and within vuggy quartz veining. This alteration zone is mostly barren of any significant Cu and will often show a gentle increase in Au with depth. It has been postulated that this zone shows similarities to an acid leached cap, however it lacks any form of supergene enrichment in base metals, as occurs at Kemess South.

Overall, sulphide mineralization throughout the deposit consists of 2-3% pyrite, with lesser amounts of chalcopyrite and traces of molybdenum. Pyrite occurs as disseminations, fracture fillings, and veins up to a few centimetres wide generally associated with quartz-anhydrite-magnetite veins and zones of quartz-magnetite replacement. The mode of occurrence of chalcopyrite is similar except that *veinlets are rare and significant disseminations occur in zones of stronger quartz-magnetite stockwork and quartz-magnetite replacements.* Gold and copper grades variably diminish outward into the hanging wall and footwall. Total sulphide content in the core of the deposit averages 3-5%, rising to 5-7% in the pyrite-rich sericitic altered upper halo.

Petrography shows a varying degree of accessory minerals throughout all rock types and alteration zones which includes; rutile, leucoxene, sphene, anhydrite, gypsum, epidote, zeolite, alunite, molybdenite, phlogopite, prehnite, apatite. (Refer to Appendix 7 – Petrographic Report)

Moving west of East Cirque to the Nugget Zone, alteration and mineralization becomes irregular as the intrusive units approximate steeply dipping dykes. This zone occurs within a broad sericitic alteration zone with irregular zones of chlorite-biotite alteration. Significant widths of gold-copper mineralization occur within Takla volcanics adjacent and proximal to these monzonite apophyses substantially adding to the mineralized volume.

The Nugget Zone alteration is dominated by weak chlorite-biotite altered Takla volcanics commonly with disseminated magnetite. Substantial gold-copper mineralization is present within the Takla volcanics but at depths exceeding 400 metres. In this area it appears that a similar style of mineralization is present, as compared to East Cirque, however the sulphide system does not overlap the quartz-magnetite portion, rather occurring well above it (KN-02-43). The Nugget Zone generally exhibits a higher gold to copper ratio than Kemess North, and rare narrow intersections of gold grades of up to 8 g/t are present.

9.0 2002 KEMESS NORTH DEPOSIT EXPLORATION

A single phase, 58 hole, helicopter supported diamond drill program totaling 33686.31m was completed between May 24 and November 14th 2002. This work was completed by Britton Bothers Diamond Drilling of Smithers B.C.. The core was logged by a small team of geologists, split using a rock saw, and then samples were passed through primary crushing at a portable sample preparation lab under lease from ALS Chemex, which was installed at Kemess. In total, excluding quality control samples, 16913 samples were submitted to Chemex for copper and gold analyses. The copper analyses were completed by atomic absorption spectrometry (AA), following a triple acid digestion. Gold analyses were completed by standard one assay ton fire assay with AA finish. An additional 667 were sent for quality control purposes, as blind duplicates, blanks or standards.

Figure 6 2002 Drill Hole Locations



Drill hole collar locations are shown in Figure 6 and are tabulated, together with orientation and hole length data Table 4 below.

Table 4. 2002 Drill Collar Location and Orientation Data

Hole ID	Easting	Northing	Elevation	Azimuth	Dip	Depth	Drilled
KN-00-12B	10561.69	16095.93	1688.24	0	-90	673.61	164.59
KN-01-17B	10282.24	16018.29	1794.38	340	-80	755.50	164.79
KN-02-01	10458.93	16139.05	1699.05	360	-80	623.93	623.93
KN-02-02	10557.00	16377.65	1624.71	0	-90	224.64	224.64
KN-02-03	10460.78	16033.03	1707.69	360	-80	770.23	770.23
KN-02-04	10578.57	16289.42	1645.41	360	-75	450.90	450.90
KN-02-05	10356.23	16236.27	1736.82	360	-85	590.40	590.40
KN-02-06	10159.78	16341.22	1750.30	180	-85	602.59	602.59
KN-02-07	10461.19	15933.83	1724.97	360	-80	736.70	736.70
KN-02-08	10249.18	16367.61	1818.00	346	-80	423.67	423.67
KN-02-09	10358.30	16320.29	1736.58	360	-85	578.21	578.21
KN-02-10	10053.57	16264.58	1682.71	0	-90	502.01	502.01
KN-02-11	10157.51	16489.49	1784.89	180	-85	496.82	496.82
KN-02-12	10559.44	15989.11	1705.17	0	-90	688.38	688.38
KN-02-13	10360.32	16046.03	1738.06	360	-85	690.98	690.98
KN-02-14	10062.02	15871.37	1692.16	0	-90	419.71	419.71
KN-02-14B	10062.02	15871.37	1692.16	0	-90	616.61	194.55
KN-02-15	9960.29	15904.20	1687.78	0	-90	626.97	626.97
KN-02-16	10362.25	15844.15	1740.97	360	-85	659.89	659.89
KN-02-16B	10362.25	15844.15	1740.97	360	-85	803.84	143.95
KN-02-17	10062.93	15994.11	1683.08	0	-90	700.13	700.13
KN-02-18	10654.11	16067.11	1686.40	0	-90	736.70	736.70
KN-02-19	10364.55	16440.96	1729.90	360	-85	469.39	469.39
KN-02-20	10456.66	16361.90	1677.80	0	-75	457.81	457.81
KN-02-21	10069.65	16156.51	1678.02	0	-90	620.88	620.88
KN-02-22	10760.00	15980.00	1738.00	360	-85	721.46	721.46
KN-02-23	8845.28	15091.10	1831.53	360	-75	1011.02	1011.02
KN-02-24	10551.96	16192.21	1679.13	0	-90	710.18	710.18
KN-02-25	10759.92	15976.20	1694.26	180	-75	764.13	764.13
KN-02-26	9858.31	16050.75	1672.38	0	-90	102.72	102.72
KN-02-27	11784.77	15486.65	1736.23	360	-70	499.87	499.87
KN-02-28	9755.06	15761.20	1743.22	0	-90	623.93	623.93
KN-02-29	10360.95	15729.46	1765.96	0	-90	785.85	785.85
KN-02-30	8355.18	15596.85	1726.61	360	-70	450.19	450.19

Hole ID	Easting	Northing	Elevation	Azimuth	Dip	Depth	Drilled
KN-02-31	9838.94	16223.12	1649.51	360	-70	325.85	325.85
KN-02-32	11011.57	15445.36	1852.17	180	-60	469.39	469.39
KN-02-33	9960.68	16120.84	1663.65	0	-90	508.10	508.10
KN-02-34	8332.29	15036.08	1755.71	360	-70	815.95	815.95
KN-02-35	9859.20	16132.86	1665.29	0	-90	577.60	577.60
KN-02-36	9929.73	16218.36	1653.04	0	-90	586.74	586.74
KN-02-37	10094.00	15156.67	1889.03	180	-70	487.24	487.24
KN-02-38	9865.10	15997.10	1678.21	0	-90	625.00	625.00
KN-02-39	10161.78	15878.69	1723.55	0	-90	675.74	675.74
KN-02-40	8345.98	15290.02	1737.58	360	-70	690.98	690.98
KN-02-41	11459.57	15760.55	1803.93	180	-70	490.73	490.73
KN-02-42	9759.57	16153.24	1672.21	360	-80	477.32	477.32
KN-02-43	8837.71	15010.31	1808.59	360	-80	703.17	703.17
KN-02-44	10055.65	16363.46	1688.35	0	-90	151.49	151.49
KN-02-45	11094.05	14227.65	1805.83	360	-60	582.47	582.47
KN-02-46	10059.17	16314.96	1687.06	0	-90	570.58	570.58
KN-02-47	9659.20	16040.68	1690.49	180	-70	543.46	543.46
KN-02-48	8962.28	15087.73	1875.25	0	-90	605.64	605.64
KN-02-49	9064.14	15070.88	1890.34	0	-90	669.65	669.65
KN-02-50	8839.97	14910.03	1746.57	360	-80	623.32	623.32
KN-02-51	9069.60	14969.85	1877.63	0	-90	668.12	668.12
KN-02-52	8867.36	14793.80	1748.76	0	-90	660.50	660.50
KN-02-53	8538.42	15115.09	1809.55	180	-80	15.24	15.24
KN-02-54	10162.41	15915.34	1718.71	180	-55	556.87	556.87
KN-02-54A	10162.41	15915.34	1718.71	180	-55	39.62	39.62
KN-02-55	9457.77	15768.00	1780.31	0	-90	572.11	572.11
KN-02-56	8751.88	15005.36	1758.72	360	-80	541.93	541.93
KN-02-57	10939.80	16023.93	1695.89	93	-60	242.93	242.93
KN-02-57B	10939.80	16023.93	1695.89	93	-60	429.00	209.80
KN-02-58	10059.82	16310.46	1687.42	6	-60	590.60	590.60

Total 33686.31

All drill holes were logged for both geologic and geotechnical properties, which in the latter case followed the recommendations of Knight-Piesold Consulting of Vancouver, British Columbia. The broken zone presents challenging drilling conditions that have historically been solved by drilling an HQ diameter hole to act as casing for NQ, which usually was used to complete the hole. In rare instances reduction to BQ was necessary to reach target depth. Sample intervals were determined by each geologist and usually ranged from 0.3 to 2.0m, cut according to lithology. Core was split using a diamond saw.

Geologic logs, geotechnical logs, assay certificates, plans and sections, and the petrographic report are presented in the Appendix attached to this report. At time of writing, results had not been received for three holes; KN-02-54, KN-02-57, and KN-02-58. In addition, two holes completed entirely within barren dacitic fragmental Toodoggone Formation, have been either partially assayed or the entire hole has yet to be sawed (KN-02-44 and KN-02-11).

Survey control for the program was provided by GPS using a base station that provided real-time correction such that sub-centimeter accuracy was achieved. Several Sperry-Sun magnetic survey instruments facilitated down-hole surveying, which proved to be problematic due to the inherent magnetite content of the rock and mechanical problems with some of the units. Suspect surveys have been flagged on the drill logs, and have been omitted from the hole plotting routines used to create the sections.

The program intersected lithologies consistent with earlier programs, however the recognition of Hazelton Group, Toodoggone lithologies in core is a new development. The overall interpretation of a quartz-monzonite intrusion providing the center for mineralization at Kemess North remains intact.

Significant assays as publicly reported are listed below in Table 5. The program was successful in confirming the nature and continuity of the higher-grade core of Cu-Au mineralization beneath East Cirque and in discovering significant widths of potentially ore grade mineralization at Nugget.

Table 5. 2002 Drill Results

HoleID	Interval(m)	Width(m)	Au gpt	Cu %	
KN-00-12B	509.02	540.00	30.98	0.67	0.36
KN-00-12B	509.02	634.00	124.98	0.42	0.24
KN-01-17B	607.91	638.70	40.79	0.36	0.26
KN-02-01	172.14	565.22	393.08	0.53	0.29
KN-02-01	407.40	560.88	153.48	0.89	0.46
KN-02-01	422.82	481.96	59.13	1.05	0.54
KN-02-03	355.09	714.35	357.13	0.42	0.24
KN-02-03	447.14	526.87	79.73	0.81	0.30
KN-02-04	264.00	375.40	111.40	0.84	0.37
KN-02-04	323.09	375.40	52.31	1.20	0.41
KN-02-05	224.64	542.31	317.67	0.58	0.30
KN-02-05	409.74	506.91	97.17	0.96	0.43
KN-02-06	228.00	496.00	268.00	0.41	0.22
KN-02-07	479.95	517.05	37.10	0.42	0.29
KN-02-07	589.01	619.38	30.37	0.55	0.26
KN-02-08	284.80	404.00	119.20	0.55	0.21
KN-02-09	229.13	497.96	268.83	0.59	0.29
KN-02-09	392.63	497.96	105.33	0.71	0.37
KN-02-10	244.28	368.50	124.22	0.29	0.18
KN-02-12	519.02	583.52	64.60	0.31	0.23
KN-02-13	392.75	591.00	198.25	0.62	0.30
KN-02-13	494.40	526.00	31.60	1.59	0.50
KN-02-13	71.65	169.60	87.85	0.33	0.15
KN-02-14	12.80	67.87	64.87	0.26	0.21
KN-02-14	240.00	269.00	29.00	0.38	0.19
KN-02-14B	480.00	474.00	14.00	0.51	0.32
KN-02-14B	554.00	568.00	14.00	0.36	0.18
KN-02-15	211.90	296.00	84.10	0.34	0.18
KN-02-15	81.00	161.50	80.50	0.41	0.27
KN-02-16	407.00	613.00	206.00	0.54	0.29
KN-02-16	539.50	585.00	45.50	1.25	0.47
KN-02-16B	734.00	798.00	84.00	0.38	0.22
KN-02-17	12.19	28.00	15.81	0.27	0.30
KN-02-17	51.82	79.25	27.43	0.29	0.23
KN-02-17	128.40	140.40	12.00	0.39	0.25
KN-02-17	200.40	230.97	30.57	0.31	0.21
KN-02-17	460.00	527.60	67.60	0.27	0.21
KN-02-17	600.00	637.00	37.00	0.29	0.23
KN-02-18	495.00	537.35	42.35	0.54	0.37
KN-02-18	561.00	573.00	12.00	0.87	0.33
KN-02-19	339.00	418.35	79.35	0.23	0.04
KN-02-21	207.00	608.00	401.00	0.25	0.21
KN-02-21	79.00	187.30	108.30	0.30	0.16
KN-02-22	551.00	706.15	155.15	0.22	0.23

HoleID	Interval(m)	Width(m)	Au gpt	Cu %	
KN-02-23	118.60	175.00	56.40	0.45	0.20
KN-02-23	433.99	494.00	60.01	0.55	0.13
KN-02-23	542.02	594.02	52.00	0.37	0.18
KN-02-24	119.00	283.00	164.00	0.36	0.16
KN-02-24	327.00	705.55	378.55	0.48	0.30
KN-02-24	407.00	478.00	71.00	0.89	0.44
KN-02-26	20.50	228.00	207.50	0.40	0.18
KN-02-26	318.00	521.00	203.00	0.37	0.16
KN-02-29	625.00	648.00	23.00	0.31	0.21
KN-02-29	719.00	766.00	49.00	0.49	0.36
KN-02-30	75.44	88.18	12.74	1.27	0.08
KN-02-31	7.62	27.43	19.81	0.29	0.26
KN-02-32	129.55	143.09	13.54	1.23	0.06
KN-02-33	6.10	15.85	9.75	0.24	0.33
KN-02-33	258.00	282.00	24.00	0.23	0.22
KN-02-33	344.00	392.00	48.00	0.30	0.22
KN-02-36	403.00	503.00	100.00	0.43	0.26
KN-02-39	9.75	122.53	112.78	0.30	0.17
KN-02-39	160.17	249.94	89.77	0.35	0.17
KN-02-39	328.54	675.74	347.20	0.49	0.24
KN-02-41	110.00	134.00	24.00	0.78	0.04
KN-02-43	157.00	175.00	18.00	0.50	0.18
KN-02-43	235.00	263.00	28.00	0.45	0.17
KN-02-43	329.00	420.00	100.00	0.46	0.16
KN-02-46	293.90	355.75	61.85	0.40	0.22
KN-02-47	52.00	93.00	41.00	0.30	0.16
KN-02-48	312.00	326.40	14.40	0.37	0.15
KN-02-48	369.00	390.05	21.05	0.85	0.15
KN-02-48	490.00	605.84	115.84	0.45	0.19
KN-02-49	267.00	289.00	22.00	0.50	0.20
KN-02-49	400.00	418.00	18.00	0.42	0.17
KN-02-49	510.00	669.65	159.65	0.36	0.19
KN-02-50	266.00	274.00	8.00	0.38	0.22
KN-02-51	250.00	254.87	4.87	0.52	0.16
KN-02-51	294.00	322.00	28.00	0.29	0.15
KN-02-51	453.00	478.00	25.00	0.35	0.17
KN-02-51	517.91	636.00	118.09	0.39	0.21
KN-02-55	197.00	305.44	110.44	0.49	0.14
KN-02-55	347.00	487.00	140.00	0.44	0.20
KN-02-56	5.49	88.00	82.51	0.47	0.10
KN-02-56	74.00	76.00	2.00	8.35	0.34
KN-02-56	114.00	134.00	20.00	0.34	0.18
KN-02-56	152.00	168.00	16.00	0.35	0.17
KN-02-56	247.00	326.00	79.00	0.33	0.13

10.0 CONCLUSIONS AND RECOMMENDATIONS

The 2001 drill program at Kemess North resulted in a preliminary resource of 442Mt grading 0.23% Cu and 0.40 gpt Au. The results of the 2002 program have yet to be worked into a resource model. The continuity of the higher-grade zone at depth beneath East Cirque has been confirmed and better defined as a result of the 2002 program. Drilling between the Nugget Zone and Kemess North at Central Cirque suggests that mineralization is continuous over the intervening 2200m.

It is recommended that a 7500m-exploration program be completed, between Nugget Zone and western Central Cirque (near KN-02-55). In addition, a structural/stratigraphic and geophysical compilation should be completed to better assess the remainder of this large property for shallow Cu-Au porphyry deposits. Targets to be evaluated include Kemess East and Kemess Center.

11.0 STATEMENT OF COSTS

Exploration costs for 2002 totaled \$ 5,145,586.63 as outlined in Table 6 below. The detailed cost accounting is listed in the Appendix.

Table 6. 2002 Kemess North Summary of Expenditures

ASSAYS	\$331,094.21
DRILLING	\$2,337,535.18
HELICOPTER	\$636,882.51
GEOLOGICAL SERVICES	\$271,197.74
STAFF/GEO TEMPS	\$204,559.12
STUDENTS	\$147,262.96
SAMPLE PREPERATION	\$56,276.11
FUEL	\$160,329.85
RENTALS	\$158,408.78
BUNKHOUSE	\$105,867.38
MISC OPERATING SUPPLIES	\$198,000.00
CONST - KN ACCESS ROAD	\$153,010.00
FLIGHTS	\$38,000.00
CORE HANDLING	\$174,765.44
CAMP COST ALLOCATION	\$163,817.35
SNOW CONTROL	\$8,580.00
TOTAL EXPENDITURES	\$5,145,586.63

12.0 STATEMENT OF QUALIFICATIONS

I, Frederick Carl Edmunds, of 986 Leah Circle, Reno, NV, 89511, do hereby certify that:

1. I have supervised the 2002 exploration program completed at Kemess North, reviewed all the data contained herein, and contributed to the preparation of this report.
2. I graduated from the University of Edinburgh in 1983 with a B.Sc. (Honours) in Geology.
3. I graduated from Queens University, Kingston, Ontario in 1988 with an M.Sc. in Mineral Exploration.
4. I am a Professional Geoscientist (P.Geo.) registered with the Association of Professional Engineers and Geoscientists of British Columbia, member # 19724, and have been a member in good standing since 1992.
5. I am a member of the Society for Mining, Metallurgy and Exploration, member # 897500, and have been a member of good standing since 1992.
6. From 1985 until present I have been continuously employed as a Geologist in mineral exploration.

Dated at Kemess South Mine, Omineca Mining Division, the 11th day of December 2002.



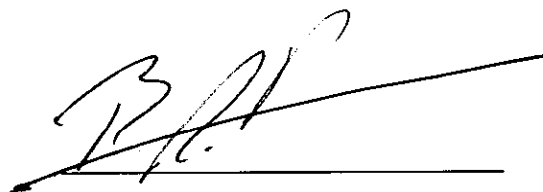
F.C Edmunds

STATEMENT OF QUALIFICATIONS

I, Brett R. LaPeare, of 3866 Comox St. of Smithers British Columbia, do hereby certify that:

1. I have studied Geology at Lakehead University in Thunder Bay, Ontario and have received a Bachelor of Sciences degree in 1990.
2. I have continuously practiced my profession as an exploration and mine geologist since graduation in Canada, U.S.A., Indonesia, and Tanzania.
3. I have currently applied for Professional Geoscientist status in British Columbia with the Association of Professional Engineers and Geoscientists.
4. I co-supervised the 2002 exploration program on the Kemess.

Dated at Kemess Mine, Omineca Mining Division, the 11th day of December, 2002



Brett R. LaPeare, B.Sc.

13.0 REFERENCES

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14.0 LIST OF APPENDICES

Appendix 1: Diamond Drilling Logs with Results

Appendix 2: Diamond Drilling Geotechnical Logs

Appendix 3: Assay Certificates – ALS Chemex

Appendix 4: Plan Map – 1:4000 DDH Locations

Appendix 4a: Plan Map – 1:50,000 Access Road and Claims

Appendix 5: Geologic Sections (21) – 1:1500

Appendix 6: Graben Petrographics - Petrographic Report

Appendix 7: Statement of Costs 2002



Appendix 2: Diamond Drilling Geotechnical Logs



GEOTECHNICAL LOG

KN-00-12B

KEMESS NORTH

Date:

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-00-12B

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
509.02	512.06	3.04	2.37	77.96	1.53	64.56	4	0.16
512.06	515.11	3.05	2.90	95.08	1.93	66.55	4	4.98
515.11	518.16	3.05	3.00	98.36	2.89	96.33	4	39.20
518.16	521.21	3.05	2.98	97.70	2.64	88.59	4	11.10
521.21	524.26	3.05	2.91	95.41	2.41	82.82	4	31.90
524.26	527.30	3.04	2.91	95.72	2.71	93.13	4	0.39
527.30	530.35	3.05	2.87	94.10	2.54	88.50	4	2.98
530.35	533.40	3.05	2.96	97.05	2.76	93.24	4	1.67
533.40	536.45	3.05	3.01	98.69	2.54	84.39	4	13.10
536.45	539.50	3.05	2.96	97.05	2.86	96.62	4	1.13
539.50	542.54	3.04	2.87	94.41	2.09	72.82	4	17.10
542.54	545.59	3.05	2.94	96.39	2.65	90.14	4	0.25
545.59	548.64	3.05	2.93	96.07	2.36	80.55	4	0.17
548.64	551.69	3.05	2.87	94.10	2.51	87.46	4	24.50
551.69	554.74	3.05	2.86	93.77	2.35	82.17	4	14.00
554.74	557.78	3.04	2.95	97.04	2.49	84.41	4	18.10
557.78	560.83	3.05	2.89	94.75	2.20	76.12	4	5.61
560.83	563.88	3.05	2.87	94.10	2.47	86.06	4	19.50
563.88	566.93	3.05	2.93	96.07	2.25	76.79	4	14.00
566.93	569.98	3.05	2.85	93.44	1.72	60.35	4	4.87
569.98	573.02	3.04	2.83	93.09	2.14	75.62	4	0.09
573.02	576.07	3.05	2.88	94.43	2.45	85.07	4	1.56
576.07	579.12	3.05	2.62	85.90	2.02	77.10	3	0.23
579.12	582.17	3.05	2.93	96.07	2.14	73.04	4	12.60
582.17	585.22	3.05	2.87	94.10	2.03	70.73	4	45.90
585.22	588.26	3.04	2.84	93.42	1.76	61.97	3	2.95
588.26	591.31	3.05	3.00	98.36	1.69	56.33	4	0.44
591.31	594.36	3.05	2.96	97.05	1.66	56.08	3	0.40
594.36	597.41	3.05	2.96	97.05	1.47	49.66	4	0.14
597.41	600.46	3.05	2.99	98.03	1.86	62.21	4	15.40
600.46	603.50	3.04	2.72	89.47	0.74	27.21	4	19.70
603.50	606.55	3.05	2.94	96.39	1.41	47.96	4	14.10
606.55	609.60	3.05	3.00	98.36	1.45	48.33	4	17.90
609.60	612.65	3.05	2.97	97.38	1.30	43.77	4	24.10
612.65	615.70	3.05	3.00	98.36	1.43	47.67	3	2.50
615.70	618.74	3.04	2.86	94.08	0.54	18.88	3	42.70
618.74	621.79	3.05	2.94	96.39	1.33	45.24	4	4.61
621.79	624.84	3.05	3.03	99.34	2.37	78.22	4	0.97
624.84	627.89	3.05	2.80	91.80	1.62	57.86	4	44.50
627.89	630.94	3.05	3.04	99.67	1.82	59.87	4	101.00
630.94	633.98	3.04	2.78	91.45	1.55	55.76	4	0.50
633.98	637.03	3.05	2.95	96.72	2.56	86.78	4	128.00
637.03	640.08	3.05	2.94	96.39	1.91	64.97	4	10.90
640.08	643.13	3.05	2.82	92.46	1.27	45.04	4	22.00
643.13	646.18	3.05	3.00	98.36	2.02	67.33	4	8.59
646.18	649.22	3.04	2.85	93.75	1.04	36.49	4	29.10
649.22	652.27	3.05	2.90	95.08	2.64	91.03	4	17.30
652.27	655.32	3.05	2.96	97.05	2.10	70.95	4	14.20
655.32	658.37	3.05	3.06	100.33	2.28	74.51	4	18.80

GEOTECHNICAL LOG

KN-00-12B

KEMESS NORTH

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
658.37	661.42	3.05	2.94	96.39	2.44	82.99	4	20.70
661.42	664.46	3.04	2.80	92.11	1.82	65.00	3	6.23
664.46	667.51	3.05	2.86	93.77	1.05	36.71	4	23.00
667.51	670.56	3.05	2.97	97.38	2.14	72.05	4	7.32
670.56	673.61	3.05	2.85	93.44	1.01	35.44	4	3.80
E.O.H.								

Date:

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-01-17B

Interval (m) From	To	Length	Recovery		RQD		HARDNESS
			Meters	%	Meters	%	
590.76	591.31	0.55	0.53	96.36	0.49	92.45	3.00
591.31	594.36	3.05	2.66	87.21	1.65	62.03	3.00
594.36	597.41	3.05	2.90	95.08	1.48	51.03	3.00
597.41	600.46	3.05	2.85	93.44	2.23	78.25	3.00
600.46	603.50	3.04	2.87	94.41	2.13	74.22	3.00
603.50	606.55	3.05	2.85	93.44	2.30	80.70	3.00
606.55	609.60	3.05	2.72	89.18	1.38	50.74	3.00
609.60	612.65	3.05	2.78	91.15	2.20	79.14	3.00
612.65	615.70	3.05	2.68	87.87	1.76	65.67	3.00
615.70	618.74	3.04	2.86	94.08	2.26	79.02	3.00
618.74	621.79	3.05	2.84	93.11	1.90	66.90	3.00
621.79	624.84	3.05	2.75	90.16	1.56	56.73	3.00
624.84	627.89	3.05	2.75	90.16	0.89	32.36	3.00
627.89	630.94	3.05	2.87	94.10	1.12	39.02	3.00
630.94	633.98	3.04	2.83	93.09	1.92	67.84	3.00
633.98	637.03	3.05	2.84	93.11	0.86	30.28	3.00
637.03	640.08	3.05	2.50	81.97	0.32	12.80	3.00
640.08	643.13	3.05	2.58	84.59	0.31	12.02	3.00
643.13	646.18	3.05	2.88	94.43	1.24	43.06	3.00
646.18	649.22	3.04	2.94	96.71	1.39	47.28	3.00
649.22	652.27	3.05	2.75	90.16	0.91	33.09	3.00
652.27	655.32	3.05	2.96	97.05	1.90	64.19	3.00
655.32	658.37	3.05	2.90	95.08	1.93	66.55	3.00
658.37	661.42	3.05	2.74	89.84	1.97	71.90	3.00
661.42	664.46	3.04	3.06	100.66	1.50	49.02	3.00
664.46	667.51	3.05	2.96	97.05	1.65	55.74	3.00
667.51	670.56	3.05	2.75	90.16	2.00	72.73	3.00
670.56	673.61	3.05	2.67	87.54	1.24	46.44	3.00
673.61	676.66	3.05	2.78	91.15	1.30	46.76	3.00
676.66	680.01	3.35	2.97	88.66	2.01	67.68	3.00
680.01	682.75	2.74	3.06	111.68	1.96	64.05	3.00
682.75	685.80	3.05	2.92	95.74	0.60	20.55	3.00
685.80	688.85	3.05	2.91	95.41	0.47	16.15	3.00
688.85	691.90	3.05	3.01	98.69	0.59	19.60	3.00
691.90	694.95	3.05	2.98	97.70	1.80	60.40	3.00
694.95	697.99	3.04	3.08	101.32	2.62	85.06	3.00
697.99	701.04	3.05	2.86	93.77	1.40	48.95	3.00
701.04	704.09	3.05	2.96	97.05	1.82	61.49	3.00
704.09	707.14	3.05	2.90	95.08	2.09	72.07	3.00
707.14	710.18	3.04	3.18	104.61	2.00	62.89	3.00
710.18	713.23	3.05	3.08	100.98	2.18	70.78	3.00
713.23	716.28	3.05	2.93	96.07	1.70	58.02	3.00
716.28	719.33	3.05	2.82	92.46	2.32	82.27	3.00

Interval (m) From	To	Length	Recovery		RQD		HARDNESS
			Meters	%	Meters	%	
719.33	722.38	3.05	2.89	94.75	2.50	86.51	3.00
722.38	725.42	3.04	3.03	99.67	1.14	37.62	3.00
725.42	728.47	3.05	2.91	95.41	1.83	62.89	3.00
728.47	731.52	3.05	3.10	101.64	2.08	67.10	3.00
731.52	734.57	3.05	2.90	95.08	1.80	62.07	3.00
734.57	737.62	3.05	2.99	98.03	2.23	74.58	3.00
737.62	740.66	3.04	2.98	98.03	2.17	72.82	3.00
740.66	743.71	3.05	2.93	96.07	2.15	73.38	3.00
743.71	746.76	3.05	2.95	96.72	2.21	74.92	3.00
746.76	749.81	3.05	2.80	91.80	2.28	81.43	3.00
749.81	752.86	3.05	2.87	94.10	2.71	94.43	3.00
752.86	755.90	3.04	2.69	88.49	2.05	76.21	3.00
E.O.H.							

Date:

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-01

INTERVAL			RECOVERY		RQD		H	Mag
From	To	Length	metres	%	metres	%		Suc
0.00	13.72	0.00						0.09
13.72	15.85	2.13	1.01	47.42	0.00	0.00		0.04
15.85	18.90	3.05	2.43	79.67	0.46	18.93		0.02
18.90	21.95	3.05	2.11	69.18	0.63	29.86		0.08
21.95	24.99	3.04	2.54	83.55	0.60	23.62		0.04
24.99	28.04	3.05	2.18	71.48	1.27	58.26		0.13
28.04	31.09	3.05	2.65	86.89	1.14	43.02		0.24
31.09	34.14	3.05	2.90	95.08	0.93	32.07		0.28
34.14	37.19	3.05	2.56	83.93	0.49	19.14		0.31
37.19	40.23	3.04	2.70	88.82	1.76	65.19		0.24
40.23	43.28	3.05	2.53	82.95	1.13	44.66		0.17
43.28	46.33	3.05	2.65	86.89	0.36	13.58		0.08
46.33	49.38	3.05	1.60	52.46	0.21	13.13		0.08
49.38	52.43	3.05	2.28	74.75	0.10	4.39		0.13
52.43	55.47	3.04	1.63	53.62	0.00	0.00		0.01
55.47	58.52	3.05	2.20	72.13	0.00	0.00		0.06
58.52	61.57	3.05	2.30	75.41	0.36	15.65		
61.57	63.07	1.50	1.46	97.33	0.00	0.00		0.19
63.07	64.62	1.55	0.75	48.39	0.00	0.00		0.02
64.62	66.14	1.52	0.68	44.74	0.00	0.00		0.02
66.14	67.67	1.53	0.53	34.64	0.00	0.00		0.19
67.67	69.19	1.52	0.45	29.61	0.00	0.00		0.08
69.19	70.71	1.52	0.69	45.39	0.00	0.00		0.25
70.71	72.24	1.53	1.18	77.12	0.00	0.00		0.02
72.24	73.76	1.52	0.86	56.58	0.00	0.00		0.20
73.76	75.29	1.53	0.51	33.33	0.00	0.00		
75.29	76.81	1.52	1.11	73.03	0.00	0.00		0.76
76.81	78.33	1.52	1.30	85.53	0.00	0.00		0.14
78.33	79.86	1.53	1.05	68.63	0.00	0.00		0.29
79.86	81.38	1.52	0.94	61.84	0.00	0.00		0.50
81.38	82.91	1.53	1.35	88.24	0.00	0.00		0.02
82.91	84.43	1.52	1.25	82.24	0.00	0.00		0.06
84.43	85.05	0.62	1.27	204.84	0.00	0.00		0.07
85.05	87.48	2.43	1.15	47.33	0.00	0.00		0.17
87.48	89.00	1.52	1.05	69.08	0.00	0.00		0.16
89.00	90.53	1.53	0.59	38.56	0.00	0.00		0.09
90.53	92.35							0.12
92.35	93.57	1.22	1.43	117.21	0.00	0.00		
93.57	95.10	1.53	1.52	99.35	0.00	0.00		0.94
95.10	96.62	1.52	1.50	98.68	0.00	0.00		0.26
96.62	98.15	1.53	0.53	34.64	0.40	75.47		0.11
98.15	99.67	1.52	0.43	28.29	0.00	0.00		0.06
99.67	102.72	3.05	2.83	92.79	2.35	83.04		0.12
102.72	105.71	2.99	2.92	97.66	2.29	78.42		0.04
105.71	108.81	3.10	2.85	91.94	2.83	99.30		0.23
108.81	111.86	3.05	2.85	93.44	2.36	82.81		0.01

INTERVAL			RECOVERY		RQD		H	Mag
From	To	Length	metres	%	metres	%		Suc
111.86	114.91	3.05	2.77	90.82	2.70	97.47		0.14
114.91	117.96	3.05	2.91	95.41	2.78	95.53		3.34
117.96	121.01	3.05	2.85	93.44	2.69	94.39		0.04
121.01	124.05	3.04	2.82	92.76	2.67	94.68		0.02
124.05	127.10	3.05	2.83	92.79	2.58	91.17		0.05
127.10	130.15	3.05	2.80	91.80	2.48	88.57		0.15
130.15	133.20	3.05	2.51	82.30	2.33	92.83		10.50
133.20	136.25	3.05	3.20	104.92	2.82	88.13		0.12
136.25	139.29	3.04	2.98	98.03	2.60	87.25		0.04
139.29	142.34	3.05	3.00	98.36	2.58	86.00		0.15
142.34	145.39	3.05	2.81	92.13	2.63	93.70	3.00	0.05
145.39	148.44	3.05	3.01	98.69	2.81	93.36	4.00	0.36
148.44	151.49	3.05	2.90	95.08	2.48	85.52	3.00	0.07
151.49	154.53	3.04	2.43	80.03	2.27	93.30	3.00	0.10
154.53	157.58	3.05	2.92	95.74	2.59	88.70	4.00	0.10
157.58	160.63	3.05	3.05	100.00	2.98	97.70	3.00	0.11
160.63	163.68	3.05	3.05	100.00	2.97	97.38	4.00	0.01
163.68	166.73	3.05	2.98	97.70	2.86	95.97	4.00	0.18
166.73	169.77	3.04	3.00	98.68	2.95	98.33	4.00	0.09
169.77	172.82	3.05	2.99	98.03	2.85	95.32	4.00	0.10
172.82	175.87	3.05	2.80	91.80	2.65	94.64	3.00	0.04
175.87	178.92	3.05	2.70	88.52	2.44	90.37	3.00	1.44
178.92	181.97	3.05	2.77	90.82	2.37	85.56	3.00	0.09
181.97	184.10	2.13	2.65	124.41	2.30	86.79	4.00	18.40
184.10	185.01	0.91	0.78	85.71	0.78	100.00	4.00	0.40
185.01	188.06	3.05	1.96	64.26	1.89	96.43	3.00	2.43
188.06	191.11	3.05	3.04	99.67	2.89	95.07	4.00	0.04
191.11	194.16	3.05	2.99	98.03	2.78	92.98	3.00	0.50
194.16	197.21	3.05	2.99	98.03	2.83	94.65	3.00	32.00
197.21	200.25	3.04	3.00	98.68	2.80	93.33		44.30
200.25	203.30	3.05	3.06	100.33	2.97	97.06		2.14
203.30	206.35	3.05	3.01	98.69	2.85	94.68		4.30
206.35	209.40	3.05	2.98	97.70	2.56	85.91		0.17
209.40	212.45	3.05	3.01	98.69	3.01	100.00		0.15
212.45	215.49	3.04	2.80	92.11	2.55	91.07		2.39
215.49	218.54	3.05	3.01	98.69	2.84	94.35		6.06
218.54	221.59	3.05	3.03	99.34	2.80	92.41		6.22
221.59	224.64	3.05	2.97	97.38	2.78	93.60		0.56
224.64	227.69	3.05	2.93	96.07	2.86	97.61		0.15
227.69	230.73	3.04	2.93	96.38	2.83	96.59		0.10
230.73	233.78	3.05	2.99	98.03	2.86	95.65		0.40
233.78	236.83	3.05	3.04	99.67	2.71	89.14		0.11
236.83	239.88	3.05	3.02	99.02	2.71	89.74		36.00
239.88	242.93	3.05	2.98	97.70	2.89	96.98		0.12
242.93	245.97	3.04	2.91	95.72	2.67	91.75		0.32
245.97	249.02	3.05	2.95	96.72	2.80	94.92		0.23
249.02	252.07	3.05	2.98	97.70	2.83	94.97		0.15
252.07	255.12	3.05	2.97	97.38	2.26	76.09		0.07
255.12	258.17	3.05	2.96	97.05	2.67	90.20		0.19
258.17	261.21	3.04	2.96	97.37	2.71	91.55		0.13
261.21	264.26	3.05	2.86	93.77	2.35	82.17		0.30
264.26	267.31	3.05	3.04	99.67	2.96	97.37		9.37
267.31	270.30	2.99	2.96	99.00	2.81	94.93		13.00

INTERVAL			RECOVERY		RQD		H	Mag
From	To	Length	metres	%	metres	%		Suc
270.30	273.41	3.11	2.94	94.53	2.61	88.78		1.73
273.41	276.45	3.04	2.85	93.75	2.69	94.39		0.92
276.45	279.50	3.05	2.99	98.03	2.71	90.64		0.30
279.50	282.55	3.05	2.89	94.75	2.54	87.89		0.47
282.55	285.60	3.05	2.85	93.44	2.79	97.89		0.14
285.60	288.65	3.05	2.83	92.79	2.68	94.70		0.20
288.65	291.69	3.04	2.95	97.04	2.84	96.27		0.14
291.69	294.74	3.05	3.16	103.61	3.05	96.52		1.17
294.74	297.79	3.05	3.01	98.69	2.92	97.01		0.34
297.79	300.84	3.05	2.72	89.18	2.66	97.79		0.12
300.84	303.89	3.05	2.92	95.74	2.70	92.47		0.31
303.89	306.93	3.04	3.02	99.34	2.74	90.73		0.23
306.93	309.98	3.05	2.98	97.70	2.66	89.26		1.06
309.98	313.03	3.05	3.04	99.67	2.94	96.71		0.09
313.03	316.08	3.05	3.02	99.02	3.02	100.00		0.13
316.08	319.13	3.05	3.00	98.36	2.72	90.67		0.88
319.13	322.17	3.04	3.04	100.00	2.48	81.58		0.11
322.17	325.22	3.05	2.94	96.39	2.58	87.76		0.56
325.22	328.27	3.05	2.60	85.25	2.22	85.38		
328.27	331.32	3.05	3.01	98.69	2.81	93.36		1.47
331.32	334.37	3.05	3.01	98.69	2.67	88.70		0.16
334.37	337.41	3.04	2.88	94.74	2.14	74.31		0.15
337.41	340.46	3.05	2.93	96.07	2.69	91.81		1.32
340.46	343.56	3.10	3.05	98.39	2.87	94.10		0.71
343.56	346.56	3.00	2.83	94.33	2.15	75.97		1.79
346.56	349.61	3.05	2.98	97.70	2.66	89.26		4.55
349.61	352.65	3.04	3.02	99.34	2.56	84.77		2.10
352.65	355.70	3.05	2.88	94.43	2.74	95.14		1.16
355.70	358.75	3.05	3.04	99.67	2.84	93.42		2.54
358.75	361.80	3.05	2.98	97.70	2.74	91.95		0.40
361.80	364.85	3.05	2.98	97.70	2.98	100.00		0.38
364.85	367.89	3.04	2.98	98.03	2.94	98.66		2.51
367.89	370.90	3.01	3.04	101.00	3.04	100.00		0.39
370.90	373.99	3.09	3.03	98.06	2.98	98.35		2.33
373.99	377.04	3.05	2.97	97.38	2.97	100.00		0.97
377.04	380.09	3.05	2.93	96.07	2.68	91.47		33.00
380.09	383.13	3.04	2.91	95.72	2.52	86.60		13.50
383.13	386.18	3.05	2.97	97.38	2.92	98.32		62.30
386.18	389.23	3.05	3.03	99.34	3.03	100.00		26.40
389.23	392.28	3.05	2.99	98.03	2.92	97.66		2.01
392.28	395.33	3.05	2.82	92.46	2.82	100.00		16.40
395.33	398.37	3.04	3.26	107.24	3.11	95.40		2.21
398.37	401.42	3.05	3.04	99.67	2.90	95.39		
401.42	403.25	1.83	0.96	52.46	0.00	0.00		95.90
403.25	404.47	1.22	0.92	75.41	0.43	46.74		
404.47	407.52	3.05	3.03	99.34	1.28	42.24		
407.52	410.52	3.00	2.96	98.67	1.59	53.72		20
410.52	413.61	3.09	2.84	91.91	1.00	35.21		41.7
413.61	416.66	3.05	3.04	99.67	1.60	52.63		1.97
416.66	419.77	3.11	2.96	95.18	1.73	58.45		3.47
419.77	422.76	2.99	2.77	92.64	1.39	50.18		2.34
422.76	425.81	3.05	2.81	92.13	1.33	47.33		24.7
425.81	428.85	3.04	3.01	99.01	1.30	43.19		0.26

INTERVAL			RECOVERY		RQD		H	Mag
From	To	Length	metres	%	metres	%		Suc
428.85	431.90	3.05	2.95	96.72	1.91	64.75		0.3
431.90	434.95	3.05	3.03	99.34	1.51	49.83		0.2
434.95	438.00	3.05	2.83	92.79	1.80	63.60		50.7
438.00	439.23	1.23	1.63	132.52	0.65	39.88		
439.23	441.05	1.82	1.62	89.01	0.43	26.54	3.00	193.00
441.05	444.09	3.04	3.18	104.61	2.19	68.87	3.00	
444.09	447.14	3.05	2.40	78.69	1.00	41.67	3.00	73.40
447.14	450.19	3.05	2.93	96.07	1.45	49.49	3.00	
450.19	453.24	3.05	2.96	97.05	1.55	52.36	3.00	9.17
453.24	456.29	3.05	3.06	100.33	1.66	54.25	3.00	36.70
456.29	459.33	3.04	2.80	92.11	1.48	52.86	3.00	12.70
459.33	462.38	3.05	2.90	95.08	0.80	27.59	3.00	42.00
462.38	465.43	3.05	3.46	113.44	0.55	15.90	3.00	13.60
465.43	468.48	3.05	2.93	96.07	1.61	54.95	3.00	92.40
468.48	471.53	3.05	2.83	92.79	1.12	39.58	3.00	16.10
471.53	474.57	3.04	2.74	90.13	0.75	27.37	3.00	47.00
474.57	477.62	3.05	2.83	92.79	1.25	44.17	3.00	0.12
477.62	480.67	3.05	3.11	101.97	1.20	38.59	3.00	77.00
480.67	483.72	3.05	2.78	91.15	1.79	64.39	3.00	6.74
483.72	486.77	3.05	2.83	92.79	1.90	67.14	3.00	5.64
486.77	489.81	3.04	3.12	102.63	1.60	51.28	3.00	63.30
489.81	492.56	2.75	2.33	84.73	0.76	32.62	3.00	0.41
492.56	495.60	3.04	3.09	101.64	2.80	90.61	3.00	0.28
495.60	498.65	3.05	3.16	103.61	1.54	48.73	3.00	30.90
498.65	501.70	3.05	2.92	95.74	1.68	57.53	3.00	0.55
501.70	504.75	3.05	3.10	101.64	2.60	83.87	3.00	1.63
504.75	507.80	3.05	2.94	96.39	2.26	76.87	3.00	60.80
507.80	510.54	2.74	2.76	100.73	1.66	60.14	3.00	28.00
510.54	513.28	2.74	2.42	88.32	1.78	73.55	3.00	3.31
513.28	516.03	2.75	2.48	90.18	1.32	53.23	3.00	1.57
516.03	518.16	2.13	2.03	95.31	0.51	25.12	3.00	0.13
518.16	519.38	1.22	1.21	99.18	0.90	74.38	3.00	0.83
519.38	520.29	0.91	0.72	79.12	0.29	40.28	3.00	0.11
520.29	523.34	3.05	2.85	93.44	1.92	67.37	3.00	122.00
523.34	526.08	2.74	2.93	106.93	1.88	64.16	3.00	205.00
526.08	529.44	3.36	2.84	84.52	2.21	77.82	3.00	
529.44	532.49	3.05	3.01	98.69	2.65	88.04	3.00	78.80
532.49	535.53	3.04	3.05	100.33	1.91	62.62	3.00	74.40
535.53	538.58	3.05	2.89	94.75	1.98	68.51	3.00	222.00
538.58	541.63	3.05	2.93	96.07	2.15	73.38	3.00	266.00
541.63	544.68	3.05	2.90	95.08	2.29	78.97	3.00	195.00
544.68	547.73	3.05	2.97	97.38	2.03	68.35	3.00	94.90
547.73	550.77	3.04	2.91	95.72	2.39	82.13	3.00	34.80
550.77	553.82	3.05	2.92	95.74	1.85	63.36	3.00	41.50
553.82	556.87	3.05	3.00	98.36	1.79	59.67	3.00	58.90
556.87	559.92	3.05	2.97	97.38	2.03	68.35	3.00	88.90
559.92	562.97	3.05	3.04	99.67	2.19	72.04	3.00	105.00
562.97	566.01	3.04	3.03	99.67	2.45	80.86	3.00	61.60
566.01	569.06	3.05	2.77	90.82	1.37	49.46	3.00	7.37
569.06	572.11	3.05	3.04	99.67	1.53	50.33	3.00	1.68
572.11	575.16	3.05	3.06	100.33	1.96	64.05	3.00	19.50
575.16	578.21	3.05	3.04	99.67	2.48	81.58	3.00	27.10
578.21	581.25	3.04	3.01	99.01	2.36	78.41	3.00	41.10

INTERVAL			RECOVERY		RQD		H	Mag
From	To	Length	metres	%	metres	%		Suc
581.25	584.30	3.05	3.00	98.36	2.64	88.00	3.00	46.00
584.30	587.35	3.05	3.04	99.67	2.54	83.55	3.00	42.10
587.35	590.40	3.05	3.05	100.00	2.59	84.92	3.00	30.70
590.40	593.45	3.05	3.05	100.00	1.69	55.41	3.00	34.40
593.45	596.49	3.04	3.00	98.68	2.11	70.33	3.00	48.90
596.49	599.54	3.05	2.98	97.70	2.52	84.56	3.00	18.10
599.54	602.59	3.05	3.04	99.67	1.82	59.87	3.00	0.12
602.59	605.64	3.05	3.03	99.34	2.39	78.88	3.00	0.04
605.64	608.69	3.05	2.87	94.10	1.89	65.85	3.00	9.94
608.69	611.73	3.04	2.98	98.03	2.42	81.21	3.00	0.04
611.73	614.78	3.05	2.92	95.74	2.44	83.56	3.00	12.80
614.78	617.83	3.05	2.96	97.05	2.03	68.58	3.00	0.10
617.83	620.88	3.05	3.12	102.30	1.78	57.05	3.00	1.86
620.88	623.93	3.05	3.00	98.36	3.00	100.00	3.00	59.90
E.O.H.								

Date:

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-02

INTERVAL (M)			RECOVERY		RQD		HARD	MAG
From	To	Length	Meters	%	Meters	%		SUCP
4.36	4.57	0.21	0.24	114.29	0.00	0.00	3.0	7.32
4.57	6.10	1.53	1.47	96.08	0.67	45.58	3.0	
6.10	7.62	1.52	0.71	46.71	0.00	0.00	3.0	
7.62	9.14	1.52	0.82	53.95	0.00	0.00	3.0	13.2
9.14	10.67	1.53	0.69	45.10	0.20	28.99	3.0	28.3
10.67	12.19	1.52	1.39	91.45	0.36	25.90	3.0	7.71
12.19	13.72	1.53	1.23	80.39	0.37	30.08	3.0	4.73
13.72	15.24	1.52	1.34	88.16	0.13	9.70	3.0	36.7
15.24	16.67	1.43	1.42	99.30	0.81	57.04	3.0	16.8
16.67	18.29	1.53	1.50	98.04	0.45	30.00	3.0	5.22
18.29	19.81	1.52	1.43	94.08	0.30	20.98	3.0	24
19.81	20.73	0.92	0.99	107.61	0.10	10.10	3.0	4.53
20.73	22.86	2.13	1.48	69.48	0.31	20.95	3.0	0.14
22.86	24.38	1.52	1.62	106.58	0.00	0.00	3.0	0.13
24.38	25.91	1.53	1.18	77.12	0.19	16.10	3.0	25.3
25.91	27.43	1.52	1.21	79.61	0.43	35.54	3.0	0.08
27.43	28.96	1.53	1.52	99.35	0.52	34.21	3.0	0.12
28.96	30.48	1.52	1.47	96.71	1.13	76.87	3.0	0.4
30.48	32.00	1.52	1.48	97.37	0.65	43.92	3.0	19.6
32.00	33.53	1.53	1.28	83.66	0.32	25.00	3.0	18.5
33.53	35.05	1.52	1.41	92.76	0.21	14.89	3.0	42.8
35.05	36.58	1.53	1.34	87.58	0.29	21.64	3.0	0.77
36.58	38.10	1.52	1.12	73.68	0.00	0.00	3.0	10.8
38.10	39.62	1.52	1.25	82.24	0.14	11.20	3.0	19.3
39.62	41.15	1.53	0.69	45.10	0.00	0.00	3.0	0.34
41.15	42.67	1.52	1.15	75.66	0.21	18.26	3.0	19.2
42.67	44.20	1.53	1.22	79.74	0.21	17.21	3.0	35
44.20	45.72	1.52	0.76	50.00	0.00	0.00	3.0	30.2
45.72	47.24	1.52	1.22	80.26	0.00	0.00	3.0	26.6
47.24	48.77	1.53	1.26	82.35	0.74	58.73	3.0	22.1
48.77	50.29	1.52	1.09	71.71	0.52	47.71	3.0	7.24
50.29	51.82	1.53	1.12	73.20	0.10	8.93	3.0	29.3
51.82	53.34	1.52	1.13	74.34	0.00	0.00	3.0	35.5
53.34	54.86	1.52	1.37	90.13	0.00	0.00	3.0	17.3
54.86	55.47	0.61	0.68	111.48	0.21	30.88	3.0	14
55.47	56.37	0.90	0.71	78.89	0.00	0.00	3.0	28
56.37	57.91	1.54	1.46	94.81	0.46	31.51	3.0	23.9
57.91	59.44	1.53	1.33	86.93	0.11	8.27	3.0	17
59.44	60.96	1.52	1.15	75.66	0.45	39.13	3.0	
60.96	62.48	1.52	1.24	81.58	0.73	58.87	3.0	21.7
62.48	64.01	1.53	1.29	84.31	0.52	40.31	3.0	7.46
64.01	65.53	1.52	1.35	88.82	0.16	11.85	3.0	23.4
65.53	67.06	1.53	1.22	79.74	0.70	57.38	3.0	38.4

INTERVAL (M)			RECOVERY		ROD		HARD	MAG
From	To	Length	Meters	%	Meters	%		SUCP
67.06	68.58	1.52	1.44	94.74	0.32	22.22	3.0	26.6
68.58	70.10	1.52	1.46	96.05	0.22	15.07	3.0	
70.10	71.63	1.53	1.62	105.88	0.93	57.41	3.0	12.6
71.63	73.15	1.52	1.24	81.58	0.00	0.00	3.0	36.2
73.15	73.76	0.61	0.29	47.54	0.00	0.00	3.0	28.1
73.76	76.20	2.44	1.80	73.77	0.15	8.33	3.0	23
76.20	79.25	3.05	1.85	60.66	0.81	43.78	3.0	20.9
79.25	82.30	3.05	2.89	94.75	1.16	40.14	3.0	28.6
82.30	85.34	3.04	2.62	86.18	1.33	50.76	3.0	38.5
85.34	88.39	3.05	2.88	94.43	0.79	27.43	3.0	13.4
88.39	91.44	3.05	3.01	98.69	1.61	53.49	3.0	27.4
91.44	94.49	3.05	3.00	98.36	0.76	25.33	3.0	25.4
94.49	97.54	3.05	2.61	85.57	1.11	42.53	3.0	16.5
97.54	100.58	3.04	2.73	89.80	0.70	25.64	3.0	33.4
100.58	103.63	3.05	1.68	55.08	0.45	26.79	3.0	11.3
103.63	106.68	3.05	2.91	95.41	1.53	52.58	3.0	28.4
106.68	109.78	3.10	3.01	97.10	1.86	61.79	3.0	22.6
109.78	112.78	3.00	2.86	95.33	0.65	22.73	3.0	23.6
112.78	115.82	3.04	2.87	94.41	0.11	3.83	3.0	8.86
115.82	118.87	3.05	2.60	85.25	0.55	21.15	3.0	32
118.87	121.92	3.05	2.99	98.03	0.47	15.72	3.0	0.83
121.92	124.97	3.05	2.83	92.79	0.38	13.43	3.0	16.4
124.97	128.02	3.05	2.96	97.05	1.01	34.12	3.0	21.1
128.02	131.06	3.04	2.12	69.74	1.33	62.74	3.0	1.69
131.06	134.11	3.05	1.70	55.74	0.12	7.06	1.5	0.02
134.11	137.16	3.05	3.00	98.36	1.21	40.33	2.5	0.11
137.16	140.21	3.05	2.92	95.74	2.04	69.86	3.0	0.03
140.21	143.26	3.05	2.76	90.49	1.91	69.20	3.0	0.07
143.26	146.30	3.04	2.97	97.70	1.40	47.14	3.0	0.18
146.30	149.35	3.05	3.12	102.30	2.35	75.32	3.0	0.05
149.35	152.40	3.05	2.88	94.43	2.32	80.56	3.0	0.05
152.40	155.45	3.05	2.94	96.39	2.63	89.46	3.0	0.08
155.45	158.50	3.05	2.99	98.03	2.89	96.66	3.0	0.09
158.50	161.54	3.04	2.72	89.47	1.39	51.10	3.0	5.99
161.54	164.59	3.05	2.79	91.48	1.35	48.39	2.0	0.05
164.59	167.64	3.05	2.73	89.51	0.26	9.52	1.0	0.05
167.64	170.69	3.05	2.70	88.52	1.44	53.33	3.0	0.05
170.69	173.74	3.05	2.89	94.75	1.58	54.67	2.0	0.04
173.74	176.78	3.04	2.98	98.03	1.36	45.64	3.0	0.01
176.78	179.83	3.05	3.01	98.69	0.14	4.65	0.5	0.03
179.83	182.88	3.05	3.04	99.67	0.17	5.59	0.5	0.01
182.88	185.93	3.05	2.90	95.08	0.79	27.24	2.5	0.02
185.93	188.98	3.05	3.03	99.34	0.66	21.78	2.5	0.01
188.98	192.02	3.04	3.03	99.67	0.75	24.75	2.5	0.03
192.02	195.07	3.05	3.05	100.00	1.40	45.90	3.0	0.03
195.07	198.12	3.05	3.01	98.69	1.56	51.83	3.0	0
198.12	201.17	3.05	2.96	97.05	1.28	43.24	3.0	0.02
201.17	204.22	3.05	2.81	92.13	0.82	29.18	3.0	
204.22	207.26	3.04	2.89	95.07	0.64	22.15	3.0	12
207.26	210.31	3.05	2.73	89.51	0.14	5.13	3.0	2.99

INTERVAL (M)			RECOVERY		RQD		HARD	MAG
From	To	Length	Meters	%	Meters	%		SUCP
210.31	213.36	3.05	2.30	75.41	0.00	0.00	2.5	0.05
213.36	215.19	1.83	2.14	116.94	0.11	5.14	2.5	0.09
215.19	219.46	4.27	2.02	47.31	0.47	23.27	2.5	0.07
219.46	222.50	3.04	2.63	86.51	0.70	26.62	2.5	0.03
222.50	224.64	2.14	1.74	81.31	0.13	7.47	2.5	0.04
E.O.H.								

Date:

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-03

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
9.75	12.80	3.05	2.95	96.72	0.59	20.00	3	0.14
12.80	15.85	3.05	2.41	79.02	0.38	15.77	3	0.01
15.85	18.90	3.05	2.89	94.75	0.67	23.18	3	0.00
18.90	21.95	3.05	2.94	96.39	1.47	50.00	2	0.06
21.95	24.99	3.04	2.95	97.04	1.35	45.76	3	0.05
24.99	28.04	3.05	2.88	94.43	1.60	55.56	3	0.07
28.04	31.09	3.05	2.85	93.44	1.58	55.44	3	0.00
31.09	34.14	3.05	2.99	98.03	1.48	49.50	3	0.48
34.14	37.19	3.05	2.95	96.72	1.90	64.41	3	0.11
37.19	40.23	3.04	2.90	95.39	1.53	52.76	3	0.45
40.23	43.28	3.05	2.91	95.41	1.00	34.36	2	0.34
43.28	46.33	3.05	3.02	99.02	0.94	31.13	3	0.30
46.33	49.38	3.05	2.91	95.41	1.29	44.33	3	0.24
49.38	52.43	3.05	2.90	95.08	2.50	86.21	3	0.19
52.43	55.47	3.04	2.91	95.72	2.23	76.63	3	0.18
55.47	58.52	3.05	3.04	99.67	2.36	77.63	3	0.52
58.52	61.57	3.05	2.93	96.07	1.85	63.14	3	0.28
61.57	64.62	3.05	2.87	94.10	1.86	64.81	3	0.14
64.62	67.67	3.05	2.98	97.70	2.15	72.15	3	0.52
67.67	70.71	3.04	2.81	92.43	1.15	40.93	3	6.16
70.71	73.76	3.05	1.54	50.49	0.64	41.56	3	5.74
73.76	76.81	3.05	3.03	99.34	1.07	35.31	3	35.7
76.81	79.86	3.05	2.94	96.39	1.78	60.54	3	34.7
79.86	82.91	3.05	3.02	99.02	1.90	62.91	3	12.7
82.91	85.95	3.04	2.83	93.09	1.43	50.53	3	13.7
85.95	89.00	3.05	3.04	99.67	2.00	65.79	3	15.9
89.00	92.05	3.05	2.83	92.79	1.68	59.36	3	0.24
92.05	95.10	3.05	2.97	97.38	2.15	72.39	3	0.68
95.10	98.15	3.05	3.00	98.36	1.82	60.67	3	1.68
98.15	99.67	1.52	1.56	102.63	1.22	78.21	3	2.14
99.67	100.28	0.61	0.75	122.95	0.40	53.33	3	21.1
100.28	102.72	2.44	2.02	82.79	0.60	29.70	3	0.19
102.72	105.77	3.05	2.83	92.79	0.95	33.57	2	0.77
105.77	108.81	3.04	2.90	95.39	1.35	46.55	2	25.9
108.81	111.86	3.05	2.50	81.97	0.70	28.00	2	0.25
111.86	114.91	3.05	2.86	93.77	0.75	26.22	2	8.72
114.91	117.96	3.05	2.75	90.16	0.75	27.27	2	20.4
117.96	121.01	3.05	2.87	94.10	1.20	41.81	2	42.2
121.01	124.05	3.04	2.97	97.70	1.30	43.77	2	8.72
124.05	127.10	3.05	2.73	89.51	0.75	27.47	2	51.9
127.10	130.15	3.05	2.55	83.61	1.70	66.67	2	48.2
130.15	133.20	3.05	2.87	94.10	1.55	54.01	1	0.11
133.20	136.25	3.05	2.95	96.72	1.65	55.93	2	0.03

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
136.25	139.29	3.04	2.80	92.11	2.25	80.36	2	1.23
139.29	142.34	3.05	2.95	96.72	2.45	83.05	2	0.08
142.34	145.39	3.05	3.00	98.36	1.85	61.67	2	0.52
145.39	148.44	3.05	2.95	96.72	2.20	74.58	2	150
148.44	151.49	3.05	2.80	91.80	1.60	57.14	2	53.5
151.49	154.53	3.04	3.00	98.68	2.70	90.00	2	51.6
154.53	157.58	3.05	3.00	98.36	2.20	73.33	2	67.6
157.58	160.63	3.05	2.90	95.08	1.85	63.79	2	5.49
160.63	163.68	3.05	2.90	95.08	1.40	48.28	2	0.32
163.68	166.73	3.05	2.80	91.80	1.65	58.93	2	0.42
166.73	169.77	3.04	2.45	80.59	0.90	36.73	2	18.9
169.77	172.82	3.05	2.80	91.80	1.60	57.14	2	0.68
172.82	175.87	3.05	2.40	78.69	0.80	33.33	1	9.61
175.87	178.92	3.05	2.80	91.80	1.55	55.36	1	24.2
178.92	181.97	3.05	2.95	96.72	2.20	74.58	1	16.2
181.97	185.01	3.04	2.50	82.24	0.95	38.00	2	1.52
185.01	188.06	3.05	2.90	95.08	1.55	53.45	1	1.53
188.06	191.11	3.05	2.75	90.16	0.95	34.55	2	97.4
191.11	194.16	3.05	2.85	93.44	0.95	33.33	2	10.2
194.16	197.21	3.05	2.90	95.08	1.15	39.66	2	25.7
197.21	200.25	3.04	2.80	92.11	0.90	32.14	2	32.5
200.25	203.30	3.05	3.00	98.36	1.45	48.33	2	0.18
203.30	206.35	3.05	2.92	95.74	1.15	39.38	1	7.73
206.35	209.40	3.05	2.87	94.10	1.47	51.22	1	69.5
209.40	212.45	3.05	2.95	96.72	1.56	52.88	1	17.1
212.45	215.49	3.04	3.00	98.68	1.90	63.33	1	1.20
215.49	218.54	3.05	2.85	93.44	2.15	75.44	1	0.23
218.54	221.59	3.05	3.00	98.36	2.60	86.67	1	12.2
221.59	224.64	3.05	2.93	96.07	1.53	52.22	1	2.74
224.64	227.69	3.05	2.95	96.72	1.95	66.10	1	0.17
227.69	230.73	3.04	2.90	95.39	2.03	70.00	1	0.30
230.73	233.78	3.05	2.75	90.16	1.75	63.64	1	0.43
233.78	236.83	3.05	2.95	96.72	2.00	67.80	2	25.1
236.83	239.88	3.05	2.90	95.08	1.65	56.90	2	0.44
239.88	242.93	3.05	2.80	91.80	1.65	58.93	2	4.06
242.93	245.97	3.04	2.97	97.70	1.73	58.25	2	0.25
245.97	249.02	3.05	3.00	98.36	2.15	71.67	2	0.12
249.02	252.07	3.05	2.95	96.72	2.02	68.47	2	0.06
252.07	255.12	3.05	2.85	93.44	1.65	57.89	2	0.14
255.12	258.17	3.05	3.00	98.36	1.85	61.67	2	0.44
258.17	261.21	3.04	2.75	90.46	1.52	55.27	2	0.58
261.21	264.26	3.05	3.00	98.36	1.85	61.67	2	0.46
264.26	267.31	3.05	2.95	96.72	1.80	61.02	2	0.20
267.31	270.36	3.05	2.90	95.08	2.05	70.69	2	0.18
270.36	273.41	3.05	3.00	98.36	2.10	70.00	2	0.18
273.41	276.45	3.04	3.03	99.67	2.20	72.61	2	0.15
276.45	279.50	3.05	3.01	98.69	2.15	71.43	2	0.41
279.50	282.55	3.05	2.90	95.08	1.30	44.83	2	0.07
282.55	285.60	3.05	2.85	93.44	1.50	52.63	2	0.14
285.60	288.65	3.05	2.87	94.10	1.50	52.26	2	0.15

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
288.65	291.69	3.04	2.90	95.39	1.95	67.24	3	0.27
291.69	294.74	3.05	2.95	96.72	1.80	61.02	3	0.80
294.74	297.79	3.05	3.00	98.36	2.45	81.67	3	0.31
297.79	300.84	3.05	2.95	96.72	1.80	61.02	3	0.45
300.84	303.89	3.05	2.88	94.43	1.75	60.76	3	0.30
303.89	306.93	3.04	2.96	97.37	1.60	54.05	3	0.30
306.93	309.98	3.05	2.86	93.77	0.95	33.22	3	0.23
309.98	313.03	3.05	2.47	80.98	0.48	19.43	3	0.17
313.03	316.08	3.05	2.75	90.16	0.37	13.45	3	0.06
316.08	319.13	3.05	1.60	52.46	0	0.00	3	0.75
319.13	322.17	3.04	2.82	92.76	1.93	68.44	3	0.17
322.17	325.22	3.05	2.40	78.69	1.73	72.08	3	0.18
325.22	328.27	3.05	2.47	80.98	1.37	55.47	3	3.93
328.27	331.32	3.05	2.75	90.16	1.95	70.91	3	0.22
331.32	334.37	3.05	1.50	49.18	0.14	9.33	3	0.46
334.37	337.41	3.04	1.65	54.28	0.12	7.27	3	0.54
337.41	340.46	3.05	2.97	97.38	2.66	89.56	3	0.15
340.46	343.51	3.05	3.02	99.02	2.77	91.72	3	0.17
343.51	346.56	3.05	3.02	99.02	1.77	58.61	3	0.48
346.56	349.61	3.05	3.00	98.36	2.91	97.00	3	0.05
349.61	352.65	3.04	3.05	100.33	2.92	95.74	3	0.13
352.65	355.70	3.05	3.02	99.02	2.55	84.44	3	0.26
355.70	358.75	3.05	2.99	98.03	2.69	89.97	3	0.22
358.75	360.58	1.83	1.02	55.74	0.57	55.88	3	0.72
360.58	361.80	1.22	0.00	0.00	0	0.00	3	1.55
361.80	363.32	1.52	0.80	52.63	0.1	12.50	3	0.11
363.32	364.85	1.53	0.44	28.76	0	0.00	3	0.03
364.85	365.76	0.91	0.00	0.00	0	0.00		
365.76	367.89	2.13	1.50	70.42	0.95	63.33	3	0.14
367.89	370.94	3.05	2.96	97.05	2.57	86.82	3	20.6
370.94	373.99	3.05	3.05	100.00	2.66	87.21	3	0.53
373.99	377.04	3.05	3.00	98.36	2.81	93.67	3	0.12
377.04	380.09	3.05	3.05	100.00	2.8	91.80	3	4.43
380.09	383.13	3.04	3.02	99.34	2.89	95.70	3	0.69
383.13	386.18	3.05	3.03	99.34	2.9	95.71	3	1.62
386.18	389.23	3.05	3.04	99.67	2.97	97.70	3	0.24
389.23	392.28	3.05	3.00	98.36	2.9	96.67	3	0.11
392.28	395.33	3.05	3.04	99.67	2.95	97.04	3	1.45
395.33	398.37	3.04	3.07	100.99	3.01	98.05	3	0.28
398.37	401.42	3.05	3.06	100.33	2.96	96.73	3	0.47
401.42	404.47	3.05	3.02	99.02	2.95	97.68	3	11.3
404.47	407.52	3.05	3.05	100.00	2.89	94.75	3	0.82
407.52	410.57	3.05	3.07	100.66	2.79	90.88	3	0.19
410.57	413.61	3.04	3.02	99.34	2.85	94.37	3	0.70
413.61	416.66	3.05	3.01	98.69	2.94	97.67	3	17.1
416.66	419.71	3.05	3.03	99.34	2.49	82.18	3	0.24
419.71	422.76	3.05	2.96	97.05	2.41	81.42	3	0.23
422.76	425.81	3.05	2.95	96.72	2.38	80.68	3	0.10
425.81	428.85	3.04	2.97	97.70	2.45	82.49	3	0.09
428.85	431.90	3.05	3.00	98.36	2.35	78.33	3	4.53

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
431.90	434.95	3.05	2.97	97.38	2.64	88.89	3	45.4
434.95	438.00	3.05	2.96	97.05	2.35	79.39	3	19.8
438.00	441.05	3.05	3.00	98.36	2.74	91.33	3	10.0
441.05	444.09	3.04	2.95	97.04	1.56	52.88	3	17.5
444.09	447.14	3.05	3.00	98.36	2.67	89.00	3	4.30
447.14	450.19	3.05	2.96	97.05	2.17	73.31	3	1.90
450.19	453.24	3.05	2.85	93.44	1.79	62.81	3	1.66
453.24	456.29	3.05	2.94	96.39	1.89	64.29	3	58.7
456.29	459.33	3.04	3.03	99.67	2.48	81.85	3	64.7
459.33	462.38	3.05	3.05	100.00	2.1	68.85	3	22.5
462.38	465.43	3.05	3.02	99.02	2.03	67.22	3	40.6
465.43	468.48	3.05	3.02	99.02	2.4	79.47	3	44.8
468.48	471.53	3.05	2.95	96.72	1.8	61.02	3	2.51
471.53	474.57	3.04	2.96	97.37	2.03	68.58	4	54.3
474.57	477.62	3.05	2.98	97.70	1.59	53.36	4	17.5
477.62	480.67	3.05	2.99	98.03	1.47	49.16	4	35.8
480.67	483.72	3.05	2.98	97.70	2.4	80.54	4	56.8
483.72	486.77	3.05	3.05	100.00	1.67	54.75	4	18.5
486.77	489.81	3.04	2.98	98.03	2.61	87.58	4	17.1
489.81	492.86	3.05	3.02	99.02	2.35	77.81	4	16.5
492.86	495.91	3.05	2.99	98.03	1.44	48.16	4	27.1
495.91	498.96	3.05	2.95	96.72	1.38	46.78	4	16.2
498.96	502.01	3.05	3.00	98.36	1.6	53.33	4	10.5
502.01	505.05	3.04	3.01	99.01	1.82	60.47	4	29.1
505.05	508.10	3.05	2.97	97.38	1.61	54.21	4	7.23
508.10	511.15	3.05	3.04	99.67	2.91	95.72	4	16.3
511.15	514.20	3.05	3.05	100.00	1.45	47.54	4	17.0
514.20	517.25	3.05	3.03	99.34	1.59	52.48	4	22.6
517.25	520.29	3.04	3.02	99.34	0.65	21.52	4	55.2
520.29	523.34	3.05	3.00	98.36	2.14	71.33	4	195
523.34	526.39	3.05	2.95	96.72	1.58	53.56	4	14.3
526.39	529.44	3.05	2.93	96.07	1.31	44.71	4	68.5
529.44	532.49	3.05	3.05	100.00	1.39	45.57	4	41.5
532.49	535.53	3.04	3.03	99.67	1.48	48.84	4	97.6
535.53	538.58	3.05	2.95	96.72	1.23	41.69	4	70.9
538.58	541.63	3.05	3.00	98.36	1.5	50.00	4	7.77
541.63	544.68	3.05	3.00	98.36	1.81	60.33	4	16.0
544.68	547.73	3.05	2.99	98.03	1.57	52.51	4	0.28
547.73	550.77	3.04	3.01	99.01	2.18	72.43	4	80.2
550.77	553.82	3.05	2.95	96.72	2.49	84.41	4	40.2
553.82	556.86	3.04	2.86	94.08	2.08	72.73	4	16.1
556.86	559.72	2.86	3.03	105.94	1.69	55.78	4	20.8
559.72	562.77	3.05	2.97	97.38	1.31	44.11	4	4.75
562.77	566.01	3.24	2.98	91.98	2.3	77.18	4	53.3
566.01	569.06	3.05	2.99	98.03	2.1	70.23	4	218
569.06	572.11	3.05	2.93	96.07	2.25	76.79	4	42.7
572.11	575.16	3.05	2.95	96.72	1.86	63.05	4	17.3
575.16	578.21	3.05	3.05	100.00	1.70	55.74	4	13.2
578.21	581.25	3.04	3.01	99.01	2.60	86.38	4	16.8
581.25	584.30	3.05	1.22	40.00	1.00	81.97	4	17.4

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
584.30	587.35	3.05	2.81	92.13	2.11	75.09	4	28.1
587.35	590.40	3.05	2.85	93.44	1.94	68.07	4	29.5
590.40	593.45	3.05	2.96	97.05	2.15	72.64	4	92.7
593.45	596.49	3.04	2.90	95.39	2.08	71.72	4	2.85
596.49	599.54	3.05	2.98	97.70	2.56	85.91	4	8.86
599.54	602.59	3.05	2.79	91.48	2.11	75.63	4	1.09
602.59	605.64	3.05	2.67	87.54	2.35	88.01	4	0.42
605.64	608.69	3.05	2.92	95.74	2.24	76.71	4	12.5
608.69	611.73	3.04	2.81	92.43	2.35	83.63	4	0.44
611.73	614.78	3.05	3.04	99.67	2.80	92.11	4	43.2
614.78	617.83	3.05	2.65	86.89	1.60	60.38	4	4.57
617.83	620.88	3.05	2.89	94.75	1.73	59.86	4	6.12
620.88	623.93	3.05	2.79	91.48	1.03	36.92	4	19.1
623.93	626.97	3.04	2.98	98.03	2.79	93.62	4	5.02
626.97	630.02	3.05	3.04	99.67	1.86	61.18	4	8.62
630.02	633.07	3.05	2.83	92.79	1.47	51.94	4	35.6
633.07	636.12	3.05	2.90	95.08	2.10	72.41	4	0.99
636.12	639.17	3.05	2.90	95.08	1.84	63.45	4	33.5
639.17	642.21	3.04	2.56	84.21	1.66	64.84	4	18.9
642.21	645.26	3.05	2.75	90.16	2.12	77.09	4	71.6
645.26	648.31	3.05	2.86	93.77	1.88	65.73	4	37.2
648.31	651.36	3.05	2.86	93.77	2.20	76.92	4	46.2
651.36	654.41	3.05	2.70	88.52	2.12	78.52	4	62.7
654.41	657.45	3.04	2.76	90.79	1.25	45.29	4	50.5
657.45	660.50	3.05	2.94	96.39	2.02	68.71	4	8.24
660.50	663.55	3.05	2.94	96.39	2.02	68.71	4	51.2
663.55	666.60	3.05	3.03	99.34	2.42	79.87	4	1.89
666.60	669.65	3.05	3.02	99.02	2.25	74.50	4	52.3
669.65	672.69	3.04	3.00	98.68	2.20	73.33	4	33.6
672.69	675.74	3.05	2.97	97.38	2.58	86.87	4	51.5
675.74	678.79	3.05	2.97	97.38	2.63	88.55	4	216
678.79	681.84	3.05	2.98	97.70	2.51	84.23	4	39.5
681.84	684.89	3.05	2.97	97.38	2.97	100.00	4	26.8
684.89	687.93	3.04	2.99	98.36	2.81	93.98	4	9.80
687.93	690.98	3.05	2.93	96.07	2.57	87.71	4	50.2
690.98	694.03	3.05	2.89	94.75	2.52	87.20	4	1.75
694.03	697.08	3.05	2.95	96.72	2.54	86.10	4	38.7
697.08	700.13	3.05	2.98	97.70	2.73	91.61	4	92.4
700.13	703.17	3.04	2.94	96.71	2.50	85.03	4	83.7
703.17	706.22	3.05	2.87	94.10	2.56	89.20	4	52.3
706.22	709.27	3.05	2.83	92.79	2.58	91.17	4	26.8
709.27	712.32	3.05	2.81	92.13	1.94	69.04	4	19.5
712.32	715.37	3.05	2.76	90.49	1.90	68.84	4	33.7
715.37	718.14	2.77	2.69	97.11	1.88	69.89	4	0.09
718.14	721.46	3.32	2.87	86.45	2.11	73.52	4	0.10
721.46	724.51	3.05	2.74	89.84	1.81	66.06	4	2.43
724.51	727.56	3.05	2.90	95.08	1.65	56.90	4	33.6
727.56	730.61	3.05	2.95	96.72	2.42	82.03	4	12.6
730.61	733.65	3.04	2.84	93.42	2.33	82.04	4	42.5
733.65	736.70	3.05	2.92	95.74	2.84	97.26	4	13.7

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
736.70	739.75	3.05	2.57	84.26	1.46	56.81	4	33.0
739.75	742.80	3.05	2.71	88.85	1.54	56.83	4	0.05
742.80	745.85	3.05	2.85	93.44	2.30	80.70	4	51.2
745.85	748.89	3.04	2.83	93.09	2.31	81.63	4	8.39
748.89	751.94	3.05	2.82	92.46	1.95	69.15	4	36.3
751.94	754.99	3.05	2.72	89.18	1.21	44.49	4	12.1
754.99	758.04	3.05	2.67	87.54	0.79	29.59	4	3.18
758.04	761.09	3.05	2.51	82.30	0.60	23.90	4	24.0
761.09	764.13	3.04	2.60	85.53	0.63	24.23	4	19.2
764.13	767.18	3.05	2.51	82.30	0.36	14.34	4	22.1
767.18	770.23	3.05	2.32	76.07	0.29	12.5	4	13.4
E.O.H.								

Date: June 14/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-04

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
15.24	16.76	1.52	0.17	11.18	0.00	0.00	2	0.02
16.76	18.29	1.53	0.99	64.71	0.22	22.22	2	0.05
18.29	19.81	1.52	0.71	46.71	0.00	0.00	2	0.01
19.81	21.34	1.53	0.52	33.99	0.00	0.00	2	0.03
21.34	22.86	1.52	1.26	82.89	0.00	0.00	2	0.00
22.86	24.38	1.52	0.20	13.16	0.00	0.00	2	0.03
24.38	25.91	1.53	0.41	26.80	0.00	0.00	1	0.03
25.91	27.43	1.52	1.03	67.76	0.00	0.00	1	0.03
27.43	28.96	1.53	0.46	30.07	0.00	0.00	1	0.01
28.96	30.48	1.52	0.37	24.34	0.00	0.00	1	0.05
30.48	32.00	1.52	0.75	49.34	0.00	0.00	1	0.03
32.00	33.53	1.53	0.17	11.11	0.00	0.00	2	0.03
33.53	35.05	1.52	0.49	32.24	0.00	0.00	1	0.02
35.05	36.58	1.53	0.54	35.29	0.00	0.00	1	0.03
36.58	38.10	1.52	0.39	25.66	0.00	0.00	1	0.04
38.10	39.62	1.52	0.38	25.00	0.00	0.00	2	0.04
39.62	41.15	1.53	0.49	32.03	0.00	0.00	1	0.07
41.15	42.67	1.52	0.38	25.00	0.00	0.00	1	0.09
42.67	44.20	1.53	0.25	16.34	0.00	0.00	1	0.15
44.20	45.72	1.52	0.51	33.55	0.00	0.00	1	0.03
45.72	47.24	1.52	0.36	23.68	0.00	0.00	1	0.03
47.24	48.77	1.53	0.46	30.07	0.00	0.00	1	0.02
48.77	50.29	1.52	0.15	9.87	0.00	0.00	1	0.02
50.29	51.82	1.53	0.37	24.18	0.00	0.00	1	0.03
51.82	53.34	1.52	0.40	26.32	0.00	0.00	1	0.03
53.34	54.86	1.52	0.32	21.05	0.00	0.00	1	0.03
54.86	56.39	1.53	0.19	12.42	0.00	0.00	2	0.12
56.39	57.91	1.52	0.87	57.24	0.00	0.00	2	0.01
57.91	59.44	1.53	1.52	99.35	0.00	0.00	2	0.04
59.44	60.96	1.52	0.64	42.11	0.00	0.00	0	0.02
60.96	62.48	1.52	0.54	35.53	0.00	0.00	0	0.07
62.48	64.01	1.53	1.39	90.85	0.00	0.00	1	0.05
64.01	65.53	1.52	1.28	84.21	0.00	0.00	1	0.46
65.53	66.14	0.61	0.32	52.46	0.00	0.00	1	0.05
66.14	68.58	2.44	1.48	60.66	0.00	0.00	1	0.04
68.58	70.10	1.52	1.50	98.68	0.00	0.00	1	0.04
70.10	71.63	1.53	1.48	96.73	0.00	0.00	1	0.01
71.63	73.15	1.52	0.76	50.00	0.00	0.00	1	0.05
73.15	74.68	1.53	0.39	25.49	0.00	0.00	1	0.06
74.68	76.20	1.52	1.50	98.68	0.00	0.00	2	0.02
76.20	77.72	1.52	0.58	38.16	0.00	0.00	2	0.02
77.72	79.25	1.53	0.74	48.37	0.00	0.00	2	0.02
79.25	80.77	1.52	1.52	100.00	0.00	0.00	2	0.02
80.77	83.82	3.05		0.00			2	0.04
83.82	85.34	1.52	0.90	59.21	0.00	0.00	2	0.03
85.34	86.87	1.53	0.65	42.48	0.00	0.00	2	0.02
86.87	88.39	1.52	0.90	59.21	0.00	0.00	2	0.04
88.39	89.92	1.53	1.30	84.97	0.00	0.00	2	0.05
89.92	91.44	1.52	1.35	88.82	0.00	0.00	2	0.14

INTERVAL (M)			RECOVERY		RQD		HARD	Mag
From	To	Length	Meters	%	Meters	%		Scp.
91.44	92.96	1.52	1.20	78.95	0.00	0.00	2	0.05
92.96	94.49	1.53	1.00	65.36	0.00	0.00	2	0.06
94.49	96.01	1.52	1.05	69.08	0.00	0.00	2	0.03
96.01	97.54	1.53	0.95	62.09	0.00	0.00	2	0.02
97.54	99.06	1.52	0.85	55.92	0.00	0.00	2	0.06
99.06	100.58	1.52	0.65	42.76	0.00	0.00	2	0.07
100.58	103.63	3.05	2.00	65.57	0.00	0.00	2	0.06
103.63	105.16	1.53	0.90	58.82	0.00	0.00	2	0.05
105.16	106.68	1.52	1.20	78.95	0.00	0.00	2	0.11
106.68	108.20	1.52	1.20	78.95	0.00	0.00	2	0.22
108.20	109.73	1.53	0.60	39.22	0.00	0.00	2	0.04
109.73	111.25	1.52	0.55	36.18	0.00	0.00	2	0.06
111.25	112.78	1.53	0.40	26.14	0.00	0.00	2	0.05
112.78	114.30	1.52	0.35	23.03	0.00	0.00	2	0.04
114.30	115.82	1.52	0.20	13.16	0.00	0.00	2	0.10
115.82	117.35	1.53	0.25	16.34	0.00	0.00	2	0.18
117.35	120.40	3.05	0.65	21.31	0.00	0.00	2	1.14
120.40	121.92	1.52	0.60	39.47	0.00	0.00	2	0.07
121.92	123.44	1.52	0.55	36.18	0.00	0.00	2	0.35
123.44	124.97	1.53	0.80	52.29	0.00	0.00	2	0.20
124.97	126.49	1.52	0.70	46.05	0.52	74.29	4	0.21
126.49	128.02	1.53	1.51	98.69	1.15	76.16	4	0.12
128.02	129.54	1.52	1.52	100.00	1.41	92.76	4	0.08
129.54	131.06	1.52	1.52	100.00	1.46	96.05	4	0.09
131.06	134.11	3.05	2.87	94.10	2.87	100.00	4	0.06
134.11	137.16	3.05	3.01	98.69	2.92	97.01	4	
137.16	140.21	3.05	3.07	100.66	2.99	97.39	4	0.08
140.21	143.26	3.05	3.05	100.00	2.98	97.70	4	0.06
143.26	146.30	3.04	3.03	99.67	2.66	87.79	4	0.04
146.30	149.35	3.05	2.98	97.70	2.65	88.93	4	0.20
149.35	152.40	3.05	3.05	100.00	2.99	98.03	4	0.07
152.40	155.45	3.05	3.06	100.33	2.97	97.06	4	0.04
155.45	158.50	3.05	3.03	99.34	2.94	97.03	4	0.05
158.50	161.54	3.04	3.01	99.01	2.79	92.69	4	0.05
161.54	164.59	3.05	3.01	98.69	2.88	95.68	4	0.06
164.59	167.64	3.05	3.09	101.31	2.83	91.59	4	0.07
167.64	170.69	3.05	3.03	99.34	2.90	95.71	4	0.06
170.69	173.74	3.05	3.03	99.34	2.72	89.77	4	0.07
173.74	176.78	3.04	3.00	98.68	2.93	97.67	4	0.16
176.78	179.83	3.05	3.02	99.02	2.83	93.71	4	0.15
179.83	182.88	3.05	3.05	100.00	2.90	95.08	4	0.14
182.88	185.93	3.05	3.02	99.02	2.96	98.01	4	0.15
185.93	188.98	3.05	2.96	97.05	2.87	96.96	4	0.08
188.98	192.02	3.04	3.10	101.97	2.94	94.84	4	0.08
192.02	195.07	3.05	2.98	97.70	2.73	91.61	4	0.06
195.07	198.12	3.05	2.92	95.74	2.65	90.75	4	0.03
198.12	201.17	3.05	3.03	99.34	2.83	93.40	4	0.03
201.17	204.22	3.05	3.12	102.30	2.93	93.91	4	0.18
204.22	207.26	3.04	3.00	98.68	2.81	93.67	4	0.04
207.26	210.31	3.05	3.06	100.33	2.99	97.71	4	0.05
210.31	213.36	3.05	2.95	96.72	2.95	100.00	4	0.07
213.36	216.41	3.05	3.04	99.67	2.87	94.41	4	0.14
216.41	219.46	3.05	3.05	100.00	2.71	88.85	4	0.06
219.46	222.50	3.04	3.05	100.33	3.05	100.00	4	0.10
222.50	225.55	3.05	3.01	98.69	2.95	98.01	4	0.14
225.55	228.60	3.05	3.02	99.02	2.99	99.01	4	0.13
228.60	231.65	3.05	3.03	99.34	2.84	93.73	4	0.05

INTERVAL (M)			RECOVERY		RQD		HARD	Mag
From	To	Length	Meters	%	Meters	%		Scp.
231.65	234.70	3.05	3.08	100.98	2.89	93.83	4	0.05
234.70	237.74	3.04	3.06	100.66	2.97	97.06	4	0.08
237.74	240.79	3.05	3.06	100.33	3.06	100.00	4	10.90
240.79	243.84	3.05	3.05	100.00	2.98	97.70	4	0.11
243.84	246.89	3.05	3.02	99.02	3.02	100.00	4	0.08
246.89	249.94	3.05	3.02	99.02	2.82	93.38	4	0.15
249.94	252.98	3.04	2.98	98.03	2.93	98.32	4	0.11
252.98	256.03	3.05	3.09	101.31	2.95	95.47	4	0.49
256.03	259.08	3.05	3.02	99.02	3.02	100.00	4	1.46
259.08	262.13	3.05	2.98	97.70	2.82	94.63	4	4.68
262.13	265.18	3.05	3.01	98.69	2.71	90.03	4	0.76
265.18	268.22	3.04	2.90	95.39	1.24	42.76	4	1.00
268.22	271.27	3.05	2.99	98.03	1.87	62.54	4	0.09
271.27	274.32	3.05	3.02	99.02	1.90	62.91	4	0.11
274.32	277.37	3.05	1.92	62.95	0.96	50.00	4	0.17
277.37	280.42	3.05	0.52	17.05	0.00	0.00	4	0.11
280.42	283.46	3.04	0.26	8.55	0.00	0.00	4	0.16
283.46	286.51	3.05	0.72	23.61	0.00	0.00	4	0.44
286.51	289.56	3.05	0.28	9.18	0.00	0.00	3	0.19
289.56	292.61	3.05	2.51	82.30	2.25	89.64	4	0.32
292.61	295.66	3.05	2.92	95.74	2.83	96.92	4	0.78
295.66	298.70	3.04	3.00	98.68	2.60	86.67	4	0.14
298.70	301.75	3.05	3.00	98.36	2.60	86.67	3	8.22
301.75	303.28	1.53	0.80	52.29	0.00	0.00		
303.28	304.80	1.52	0.20	13.16	0.00	0.00	3	4.92
304.80	307.85	3.05	0.20	6.56	0.00	0.00	4	0.05
307.85	310.90	3.05	0.05	1.64	0.00	0.00	4	0.03
310.90	313.94	3.04	0.05	1.64	0.00	0.00	4	0.03
313.94	316.39	2.45	0.20	8.16	0.00	0.00	4	0.01
316.39	320.04	3.65	0.35	9.59	0.00	0.00	4	0.05
320.04	321.56	1.52	0.50	32.89	0.00	0.00	4	0.02
321.56	323.09	1.53	1.60	104.58	0.78	48.75	3	0.02
323.09	326.14	3.05	2.92	95.74	0.63	21.58	4	0.01
326.14	329.18	3.04	2.51	82.57	0.73	29.08	4	0.04
329.18	332.23	3.05	3.13	102.62	1.82	58.15	4	0.15
332.23	335.26	3.05	2.75	90.16	2.03	73.82	4	0.07
335.26	338.33	3.05	3.05	100.00	2.51	82.30	4	0.27
338.33	341.38	3.05	2.80	91.80	0.57	20.36	3	0.06
341.38	344.42	3.04	2.90	95.39	1.60	55.17	3	0.09
344.42	347.47	3.05	3.00	98.36	1.30	43.33	3	0.05
347.47	350.52	3.05	3.00	98.36	1.45	48.33	3	3.71
350.52	353.57	3.05	3.01	98.69	0.67	22.26	3	4.83
353.57	356.62	3.05	3.02	99.02	1.36	45.03	3	0.16
356.62	359.66	3.04	3.04	100.00	2.45	80.59	3	0.24
359.66	362.71	3.05	2.85	93.44	2.20	77.19	3	8.94
362.71	365.76	3.05	2.92	95.74	2.30	78.77	3	0.12
365.76	368.81	3.05	2.98	97.70	2.20	73.83	3	1.18
368.81	371.86	3.05	2.15	70.49	1.17	54.42	3	0.06
371.86	374.90	3.04	3.05	100.33	1.20	39.34	3	0.04
374.90	377.95	3.05	3.03	99.34	1.13	37.29	3	90.00
377.95	381.00	3.05	2.80	91.80	1.00	35.71	4	18.00
381.00	384.05	3.05	2.95	96.72	1.30	44.07	4	7.12
384.05	387.10	3.05	3.03	99.34	0.04	1.32	4	0.92
387.10	390.14	3.04	2.98	98.03	2.10	70.47	4	0.22
390.14	393.19	3.05	2.97	97.38	1.10	37.04	4	0.94
393.19	396.24	3.05	3.02	99.02	1.40	46.36	4	1.42
396.24	399.29	3.05	2.85	93.44	1.75	61.40	4	21.20

INTERVAL (M)			RECOVERY		RQD		HARD	Mag
From	To	Length	Meters	%	Meters	%		Scp.
399.29	402.34	3.05	3.05	100.00	1.85	60.66	4	13.00
402.34	405.38	3.04	2.93	96.38	1.50	51.19	4	2.63
405.38	408.43	3.05	3.05	100.00	1.15	37.70	4	3.50
408.43	411.48	3.05	3.04	99.67	1.75	57.57	4	20.40
411.48	414.53	3.05	2.90	95.08	1.70	58.62	3	35.30
414.53	417.58	3.05	3.03	99.34	0.95	31.35	3	4.37
417.58	420.62	3.04	3.03	99.67	0.85	28.05	3	15.00
420.62	423.67	3.05	3.05	100.00	1.15	37.70	3	6.43
423.67	426.72	3.05	3.02	99.02	1.30	43.05	3	7.55
426.72	429.77	3.05	2.97	97.38	1.90	63.97	3	21.90
429.77	432.82	3.05	2.93	96.07	1.64	55.97	3	19.90
432.82	435.86	3.04	2.93	96.38	1.15	39.25	3	41.20
435.86	438.91	3.05		0.00			3	17.60
438.91	441.96	3.05	2.90	95.08	1.42	48.97	4	14.60
441.96	445.01	3.05	2.78	91.15	0.59	21.22	3	12.60
445.01	448.06	3.05	2.68	87.87	0.40	14.93	4	18.50
448.06	450.90	2.84	2.84	100.00	1.26	44.37	3	5.39

E.O.H.

Date: June 14/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-05

INTERVAL (M)			RECOVERY		RQD		HARD	Mag
From	To	Length	Meters	%	Meters	%		Scp.
3.05	3.66	0.61	0.21	34.4	0.00	0.0	2	0.01
3.66	5.18	1.52	1.25	82.2	0.40	26.3	2	0.07
5.18	6.71	1.53	1.36	88.9	0.48	31.4	2	0.03
6.71	8.23	1.52	1.34	88.2	0.60	39.5	2	0.13
8.23	9.75	1.52	1.17	77.0	0.47	30.9	2	0.07
9.75	11.28	1.53	1.37	89.5	0.37	24.2	2	0.20
11.28	12.80	1.52	1.20	78.9	0.46	30.3	2	0.22
12.80	14.33	1.53	1.39	90.8	0.40	26.1	2	0.14
14.33	17.37	3.04	2.94	96.7	0.50	16.4	2	0.01
17.37	18.90	1.53	1.40	91.5	0.60	39.2	2	0.31
18.90	20.42	1.52	1.45	95.4	0.15	9.9	2	0.08
20.42	21.95	1.53	1.50	98.0	0.70	45.8	2	0.06
21.95	23.47	1.52	1.20	78.9	0.25	16.4	3	0.10
23.47	24.99	1.52	1.45	95.4	0.45	29.6	3	0.09
24.99	26.52	1.53	1.40	91.5	0.97	63.4	3	0.00
26.52	28.04	1.52	1.40	92.1	0.96	63.2	3	0.00
28.04	29.57	1.53	1.50	98.0	0.71	46.4	3	0.02
29.57	31.09	1.52	1.46	96.1	0.86	56.6	3	0.06
31.09	32.61	1.52	1.44	94.7	0.90	59.2	3	0.02
32.61	34.14	1.53	1.41	92.2	0.28	18.3	3	0.02
34.14	35.66	1.52	1.45	95.4	0.64	42.1	3	0.16
35.66	37.19	1.53	1.49	97.4	0.40	26.1	3	0.03
37.19	38.71	1.52	1.39	91.4	0.60	39.5	3	0.00
38.71	40.23	1.52	1.50	98.7	0.76	50.0	3	0.00
40.23	41.76	1.53	1.51	98.7	0.98	64.1	3	0.11
41.76	43.28	1.52	1.50	98.7	0.45	29.6	3	0.05
43.28	44.81	1.53	1.52	99.3	1.08	70.6	3	0.18
44.81	46.33	1.52	1.38	90.8	1.08	71.1	3	0.09
46.33	47.85	1.52	1.46	96.1	0.77	50.7	3	0.07
47.85	49.38	1.53	1.53	100.0	1.29	84.3	3	0.10
49.38	50.90	1.52	1.26	82.9	0.88	57.9	3	0.00
50.90	52.43	1.53	1.38	90.2	0.90	58.8	3	0.00
52.43	53.95	1.52	1.27	83.6	0.82	53.9	3	0.07
53.95	55.47	1.52	1.52	100.0	0.75	49.3	3	0.04
55.47	57.00	1.53	1.50	98.0	1.30	85.0	3	0.06
57.00	58.52	1.52	1.50	98.7	1.10	72.4	3	0.08
58.52	60.05	1.53	1.51	98.7	0.68	44.4	3	0.11
60.05	61.57	1.52	1.39	91.4	0.65	42.8	3	0.14
61.57	63.09	1.52	1.47	96.7	0.73	48.0	3	0.10
63.09	64.62	1.53	1.44	94.1	0.85	55.6	3	0.09
64.62	66.14	1.52	1.43	94.1	0.15	9.9	3	0.14
66.14	67.67	1.53	1.47	96.1	1.03	67.3	3	0.17
67.67	69.19	1.52	1.50	98.7	0.71	46.7	3	0.20

INTERVAL (M)			RECOVERY		RQD		HARD	Mag
From	To	Length	Meters	%	Meters	%		Scp.
69.19	70.71	1.52	1.39	91.4	1.14	75.0	3	0.26
70.71	72.24	1.53	1.38	90.2	1.14	74.5	3	0.20
72.24	73.76	1.52	1.31	86.2	0.60	39.5	3	0.25
73.76	75.29	1.53	1.47	96.1	1.25	81.7	3	0.10
75.29	76.81	1.52	1.51	99.3	1.19	78.3	3	0.14
76.81	78.33	1.52	1.50	98.7	1.10	72.4	3	0.10
78.33	79.86	1.53	1.45	94.8	0.89	58.2	3	0.13
79.86	81.38	1.52	1.48	97.4	0.85	55.9	3	0.24
81.38	82.91	1.53	1.44	94.1	0.38	24.8	3	0.09
82.91	84.43	1.52	1.44	94.7	0.45	29.6	3	0.04
84.43	85.95	1.52	1.39	91.4	1.22	80.3	3	0.12
85.95	87.48	1.53	1.49	97.4	1.26	82.4	3	0.10
87.48	89.00	1.52	1.40	92.1	1.28	84.2	2	0.12
89.00	90.53	1.53	1.33	86.9	0.17	11.1	2	0.03
90.53	92.05	1.52	1.25	82.2	0.00	0.0	2	0.07
92.05	93.57	1.52	1.42	93.4	0.79	52.0	2	0.13
93.57	95.10	1.53	1.44	94.1	0.35	22.9	2	0.00
95.10	96.62	1.52	1.38	90.8	0.40	26.3	2	0.11
96.62	98.15	1.53	1.40	91.5	0.41	26.8	2	0.06
98.15	99.67	1.52	1.45	95.4	0.14	9.2	2	0.09
99.67	101.19	1.52	1.36	89.5	0.00	0.0	2	0.13
101.19	102.72	1.53	1.34	87.6	0.00	0.0	3	0.09
102.72	105.77	3.05	2.99	98.0	0.15	4.9	3	0.12
105.77	107.29	1.52	1.38	90.8	0.25	16.4	3	0.04
107.29	108.81	1.52	1.42	93.4	0.28	18.4	3	0.15
108.81	110.34	1.53	1.45	94.8	0.11	7.2	3	0.00
110.34	111.86	1.52	1.10	72.4	0.00	0.0	2	0.05
111.86	113.39	1.53	1.10	71.9	0.00	0.0	2	0.43
113.39	114.91	1.52	1.25	82.2	0.00	0.0	2	0.07
114.91	116.43	1.52	1.10	72.4	0.00	0.0	2	0.00
116.43	117.96	1.53	1.25	81.7	0.00	0.0	2	0.02
117.96	119.48	1.52	1.35	88.8	0.00	0.0	2	0.10
119.48	121.01	1.53	0.90	58.8	0.00	0.0	2	0.00
121.01	122.53	1.52	0.75	49.3	0.00	0.0	2	0.10
122.53	124.04	1.51	1.45	96.0	0.10	6.6	3	0.09
124.04	125.58	1.54	1.30	84.4	0.00	0.0	3	0.08
125.58	127.10	1.52	1.45	95.4	0.25	16.4	3	0.63
127.10	128.63	1.53	1.32	86.3	0.37	24.2	3	0.23
128.63	130.15	1.52	1.14	75.0	0.72	47.4	3	0.36
130.15	131.67	1.52	1.21	79.6	0.77	50.7	3	0.43
131.67	134.42	2.75	2.70	98.2	2.42	88.0	3	0.28
134.42	136.25	1.83	1.63	89.1	1.60	87.4	3	0.16
136.25	139.29	3.04	3.02	99.3	2.76	90.8	3	0.23
139.29	142.34	3.05	2.97	97.4	1.48	48.5	3	0.48
142.34	145.39	3.05	3.04	99.7	2.85	93.4	4	0.13
145.39	148.44	3.05	3.03	99.3	2.81	92.1	4	0.06
148.44	151.49	3.05	2.99	98.0	2.80	91.8	4	0.09
151.49	154.53	3.04	3.04	100.0	2.78	91.4	4	0.37
154.53	157.58	3.05	3.00	98.4	2.77	90.8	4	0.27
157.58	160.63	3.05	3.01	98.7	2.74	89.8	4	0.23

INTERVAL (M)			RECOVERY		RQD		HARD	Mag Scp.
From	To	Length	Meters	%	Meters	%		
160.63	163.67	3.04	3.03	99.7	2.73	89.8	4	0.75
163.67	166.73	3.06	3.05	99.7	2.61	85.3	4	0.21
166.73	169.77	3.04	3.03	99.7	2.81	92.4	4	0.25
169.77	172.82	3.05	3.04	99.7	2.50	82.0	4	0.79
172.82	175.87	3.05	3.00	98.4	2.70	88.5	4	0.27
175.87	178.92	3.05	3.01	98.7	2.90	95.1	4	0.24
178.92	181.97	3.05	3.04	99.7	2.80	91.8	4	0.37
181.97	185.01	3.04	3.02	99.3	2.70	88.8	4	0.13
185.01	188.06	3.05	2.98	97.7	2.29	75.1	4	0.13
188.06	191.11	3.05	3.01	98.7	2.56	83.9	4	0.13
191.11	194.16	3.05	3.05	100.0	2.82	92.5	4	0.17
194.16	197.21	3.05	3.04	99.7	2.49	81.6	4	1.49
197.21	200.25	3.04	3.02	99.3	2.95	97.0	4	0.45
200.25	203.30	3.05	3.08	101.0	2.61	85.6	4	0.26
203.30	206.35	3.05	3.03	99.3	2.75	90.2	4	0.41
206.35	209.40	3.05	3.02	99.0	2.65	86.9	4	0.14
209.40	212.45	3.05	2.93	96.1	2.42	79.3	4	0.1
212.45	215.49	3.04	3.08	101.3	2.46	80.9	4	0.2
215.49	218.54	3.05	2.96	97.0	2.86	93.8	4	0.1
218.54	221.59	3.05	3.03	99.3	2.91	95.4	4	0.21
221.59	224.64	3.05	2.96	97.0	2.88	94.4	4	29.3
224.64	227.69	3.05	3.09	101.3	2.90	95.1	4	0.11
227.69	230.73	3.04	3.04	100.0	2.90	95.4	4	13.3
230.73	233.78	3.05	3.01	98.7	2.95	96.7	4	228
233.78	236.83	3.05	3.04	99.7	2.77	90.8	4	47.1
236.83	239.88	3.05	2.96	97.0	2.92	95.7	4	0.25
239.88	242.93	3.05	3.04	99.7	2.97	97.4	4	32.1
242.93	245.97	3.04	2.98	98.0	2.90	95.4	4	0.22
245.97	249.02	3.05	2.99	98.0	2.66	87.2	4	0.08
249.02	252.07	3.05	3.05	100.0	2.84	93.1	4	0.09
252.07	255.12	3.05	3.05	100.0	3.05	100.0	4	3.3
255.12	258.17	3.05	2.95	96.7	2.61	85.6	4	44.6
258.17	261.21	3.04	2.97	97.7	2.94	96.7	4	1.46
261.21	264.26	3.05	3.08	101.0	2.86	93.8	4	0.66
264.26	267.31	3.05	2.96	97.0	2.79	91.5	4	115
267.31	270.36	3.05	3.00	98.4	2.86	93.8	4	0.19
270.36	273.41	3.05	3.02	99.0	2.85	93.4	4	11.7
273.41	276.45	3.04	2.96	97.4	2.84	93.4	4	0.08
276.45	279.50	3.05	3.00	98.4	2.84	93.1	4	12.4
279.50	282.55	3.05	2.95	96.7	2.84	93.1	4	110
282.55	285.60	3.05	3.02	99.0	2.88	94.4	4	0.27
285.60	288.65	3.05	3.07	100.7	3.01	98.7	4	8.58
288.65	291.69	3.04	2.93	96.4	2.71	89.1	4	4.67
291.69	294.74	3.05	2.97	97.4	2.59	84.9	4	12.1
294.74	297.79	3.05	2.97	97.4	2.77	90.8	4	8.15
297.79	300.84	3.05	3.04	99.7	2.90	95.1	4	3.4
300.84	303.89	3.05	2.98	97.7	2.88	94.4	4	37.9
303.89	306.93	3.04	3.01	99.0	2.92	96.1	4	0.1
306.93	309.98	3.05	3.00	98.4	2.88	94.4	4	0.28
309.98	313.03	3.05	3.04	99.7	2.88	94.4	4	0.19

INTERVAL (M)			RECOVERY		RQD		HARD	Mag
From	To	Length	Meters	%	Meters	%		Scp.
313.03	316.08	3.05	2.96	97.0	2.89	94.8	4	26.1
316.08	319.13	3.05	2.95	96.7	2.76	90.5	4	3.87
319.13	322.17	3.04	2.96	97.4	2.91	95.7	4	0.74
322.17	325.22	3.05	2.98	97.7	2.80	91.8	4	1.71
325.22	328.27	3.05	2.99	98.0	2.94	96.4	4	0.98
328.27	331.32	3.05	2.98	97.7	2.59	84.9	4	24.6
331.32	334.37	3.05	2.99	98.0	2.99	98.0	4	55.4
334.37	337.41	3.04	3.00	98.7	2.62	86.2	4	0.56
337.41	340.46	3.05	3.00	98.4	2.78	91.1	4	36.5
340.46	343.51	3.05	2.98	97.7	2.70	88.5	4	22
343.51	346.56	3.05	2.97	97.4	2.83	92.8	4	54
346.56	349.61	3.05	3.04	99.7	2.80	91.8	4	1.62
349.61	352.65	3.04	3.00	98.7	2.71	89.1	4	10.5
352.65	355.70	3.05	3.03	99.3	2.92	95.7	4	0.24
355.70	358.75	3.05	2.96	97.0	2.67	87.5	4	13.1
358.75	361.80	3.05	3.02	99.0	2.85	93.4	4	7.15
361.80	364.85	3.05	3.01	98.7	2.90	95.1	4	4.64
364.85	367.89	3.04	3.00	98.7	3.00	98.7	4	48.3
367.89	370.94	3.05	2.96	97.0	2.54	83.3	4	4.19
370.94	373.99	3.05	3.02	99.0	2.78	91.1	4	5.57
373.99	377.04	3.05	3.00	98.4	2.91	95.4	4	1.13
377.04	380.09	3.05	3.00	98.4	2.78	91.1	4	5.38
380.09	383.13	3.04	2.99	98.4	2.76	90.8	4	16.2
383.13	386.18	3.05	2.99	98.0	2.69	88.2	4	37.6
386.18	389.23	3.05	2.98	97.7	2.88	94.4	4	9.81
389.23	392.28	3.05	3.05	100.0	2.72	89.2	4	9.13
392.28	395.33	3.05	2.94	96.4	2.80	91.8	4	4.03
395.33	398.37	3.04	3.03	99.7	2.90	95.4	4	2.24
398.37	401.42	3.05	3.03	99.3	2.99	98.0	4	2.88
401.42	404.57	3.15	3.01	95.6	2.96	94.0	4	20.6
404.57	407.52	2.95	3.04	103.1	2.89	98.0	4	44.2
407.52	410.57	3.05	3.00	98.4	1.75	57.4	4	0.19
410.57	413.67	3.1	2.89	93.2	2.20	71.0	4	0.15
413.67	416.66	2.99	2.99	100.0	2.51	83.9	4	0.13
416.66	419.71	3.05	2.68	87.9	2.00	65.6	4	0.15
419.71	422.76	3.05	3.02	99.0	2.48	81.3	4	0.13
422.76	425.81	3.05	2.84	93.1	2.50	82.0	4	0.38
425.81	428.85	3.04	2.96	97.4	2.30	75.7	4	0.3
428.85	431.90	3.05	2.61	85.6	1.82	59.7	4	0.15
431.90	434.95	3.05	2.37	77.7	1.25	41.0	4	0.28
434.95	438.00	3.05	2.62	85.9	1.75	57.4	4	0.1
438.00	441.05	3.05	2.90	95.1	2.23	73.1	4	8.82
441.05	444.09	3.04	2.91	95.7	2.21	72.7	4	0.2
444.09	447.14	3.05	2.96	97.0	2.28	74.8	4	5.39
447.14	450.19	3.05	2.78	91.1	2.12	69.5	4	2.92
450.19	453.24	3.05	2.78	91.1	2.10	68.9	4	3.71
453.24	456.29	3.05	2.70	88.5	1.76	57.7	4	0.19
456.29	459.33	3.04	2.82	92.8	2.33	76.6	4	68.9
459.33	462.38	3.05	2.99	98.0	2.37	77.7	4	1.13
462.38	465.43	3.05	2.84	93.1	2.56	83.9	4	4.98

INTERVAL (M)			RECOVERY		RQD		HARD	Mag
From	To	Length	Meters	%	Meters	%		Scp.
465.43	468.48	3.05	3.03	99.3	2.23	73.1	4	34.1
468.48	471.53	3.05	2.96	97.0	2.38	78.0	4	0.57
471.53	474.57	3.04	2.94	96.7	2.04	67.1	4	5.17
474.57	477.62	3.05	2.90	95.1	2.00	65.6	4	109
477.62	480.67	3.05	3.04	99.7	2.35	77.0	4	1.34
480.67	483.72	3.05	2.90	95.1	2.38	78.0	4	0.31
483.72	486.77	3.05	2.76	90.5	1.84	60.3	4	98.4
486.77	489.81	3.04	2.72	89.5	2.14	70.4	4	49.2
489.81	492.86	3.05	2.90	95.1	2.16	70.8	4	26.3
492.86	495.91	3.05	2.93	96.1	2.28	74.8	4	3.89
495.91	498.96	3.05	2.42	79.3	1.54	50.5	4	6.08
498.96	502.01	3.05	3.24	106.2	1.75	57.4	4	1.17
502.01	505.05	3.04	2.46	80.9	1.70	55.9	4	36.2
505.05	508.10	3.05	2.74	89.8	1.78	58.4	4	24.6
508.10	511.15	3.05	3.15	103.3	1.99	65.2	4	2.05
511.15	514.20	3.05	2.90	95.1	1.68	55.1	4	25.4
514.20	517.25	3.05	3.02	99.0	2.64	86.6	4	14.8
517.25	520.29	3.04	2.87	94.4	2.37	78.0	4	1.57
520.29	523.34	3.05	3.02	99.0	2.09	68.5	4	230
523.34	526.39	3.05	2.84	93.1	1.93	63.3	4	119
526.39	529.44	3.05	3.00	98.4	2.28	74.8	4	15.6
529.44	532.49	3.05	2.88	94.4	2.32	76.1	4	12.8
532.49	535.53	3.04	3.02	99.3	2.18	71.7	4	0.17
535.53	538.58	3.05	2.86	93.8	2.24	73.4	3	0.09
538.58	541.63	3.05	3.00	98.4	2.42	79.3	4	0.13
541.63	544.68	3.05	2.82	92.5	1.58	51.8	3	0.14
544.68	547.73	3.05	3.03	99.3	2.61	85.6	3	11.9
547.73	550.77	3.04	2.98	98.0	2.12	69.7	3	0.12
550.77	553.80	3.03	3.00	99.0	2.55	84.2	4	0.04
553.80	556.87	3.07	2.82	91.9	2.10	68.4	3	0.54
556.87	559.92	3.05	2.95	96.7	2.53	83.0	4	19.8
559.92	562.97	3.05	2.99	98.0	2.47	81.0	4	19.5
562.97	566.01	3.04	2.80	92.1	1.51	49.7	4	11.7
566.01	569.06	3.05	2.97	97.4	1.99	65.2	4	5.22
569.06	572.11	3.05	3.00	98.4	2.95	96.7	4	30.3
572.11	575.16	3.05	2.93	96.1	2.29	75.1	4	37.4
575.16	578.21	3.05	2.42	79.3	1.66	54.4	4	24.7
578.21	581.25	3.04	3.15	103.6	1.74	57.2	4	0.94
581.25	584.30	3.05	2.44	80.0	1.25	41.0	4	37.2
584.30	587.35	3.05	2.94	96.4	1.82	59.7	4	14.2
587.35	590.40	3.05	3.05	100.0	1.29	42.3	4	31.4
E.O.H.								

Date: June 15/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-06

Interval (m)			Recovery		RQD		HARDNESS	Mag Scp.
From	To	Length	Meters	%	Meters	%		
0.00	3.05	3.05	CASING					
3.05	5.18	2.13	1.45	68.1	0.14	9.7	3	15.00
5.18	6.71	1.53	1.60	104.6	0.20	12.5	3	0.09
6.71	9.75	3.04	3.02	99.3	1.13	37.4	3	14.70
9.75	12.80	3.05	1.82	59.7	1.51	83.0	3	0.01
12.80	15.85	3.05	2.65	86.9	1.85	69.8	3	6.39
15.85	18.90	3.05	2.93	96.1	1.25	42.7	3	5.44
18.90	21.95	3.05	2.91	95.4	1.03	35.4	3	17.30
21.95	24.99	3.04	3.04	100.0	1.59	52.3	3	35.70
24.99	28.04	3.05	3.06	100.3	2.00	65.4	3	5.94
28.04	29.57	1.53	1.57	102.6	0.77	49.0	3	13.10
29.57	30.18	0.61	0.21	34.4	0.00	0.0	3	31.40
30.18	32.61	2.43	1.80	74.1	0.40	22.2	3	0.08
32.61	35.66	3.05	1.67	54.8	0.00	0.0	2	23.40
35.66	38.71	3.05	1.56	51.1	0.12	7.7	2	1.49
38.71	41.76	3.05	3.05	100.0	0.87	28.5	3	23.80
41.76	44.81	3.05	3.04	99.7	1.13	37.2	3	6.78
44.81	47.85	3.04	3.05	100.3	0.39	12.8	4	30.80
47.85	50.90	3.05	2.95	96.7	0.98	33.2	4	17.10
50.90	53.95	3.05	3.08	101.0	0.87	28.2	3	0.08
53.95	57.00	3.05	2.98	97.7	1.36	45.6	3	0.03
57.00	60.05	3.05	3.04	99.7	1.14	37.5	4	0.02
60.05	63.09	3.04	2.95	97.0	0.56	19.0	4	0.01
63.09	66.14	3.05	3.00	98.4	2.75	91.7	4	0.22
66.14	69.19	3.05	3.00	98.4	2.03	67.7	4	0.01
69.19	72.24	3.05	2.90	95.1	1.35	46.6	4	0.04
72.24	75.29	3.05	3.03	99.3	0.57	18.8	4	0.02
75.29	78.33	3.04	3.06	100.7	0.94	30.7	4	0.01
78.33	81.38	3.05	3.01	98.7	1.32	43.9	4	0.01
81.38	84.43	3.05	2.96	97.0	1.95	65.9	4	0.01
84.43	87.48	3.05	2.91	95.4	2.23	76.6	4	0.01
87.48	90.53	3.05	3.04	99.7	1.21	39.8	4	0.03
90.53	93.57	3.04	3.09	101.6	2.13	68.9	4	0.02
93.57	96.62	3.05	3.02	99.0	2.56	84.8	4	0.04
96.62	99.67	3.05	2.93	96.1	2.57	87.7	4	0.06
99.67	102.72	3.05	3.05	100.0	2.95	96.7	4	0.03
102.72	105.77	3.05	1.54	50.5	0.87	56.5	4	0.20
105.77	108.81	3.04	3.07	101.0	2.33	75.9	4	0.02
108.81	111.86	3.05	2.88	94.4	2.38	82.6	4	0.03
111.86	114.91	3.05	3.10	101.6	1.83	59.0	4	0.05
114.91	117.96	3.05	3.08	101.0	1.93	62.7	4	0.03
117.96	121.01	3.05	3.05	100.0	1.61	52.8	4	0.02
121.01	124.05	3.04	3.03	99.7	2.03	67.0	4	0.09
124.05	127.10	3.05	3.06	100.3	1.29	42.2	4	0.06
127.10	130.15	3.05	2.97	97.4	1.64	55.2	4	0.04
130.15	133.20	3.05	2.92	95.7	2.06	70.5	4	0.13
133.20	136.25	3.05	2.98	97.7	1.47	49.3	4	0.03
136.25	139.29	3.04	3.07	101.0	2.21	72.0	4	0.05
139.29	142.34	3.05	3.05	100.0	2.33	76.4	4	0.09

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
142.34	145.39	3.05	3.04	99.7	2.31	76.0	4	0.07
145.39	148.44	3.05	2.99	98.0	2.31	77.3	4	0.11
148.44	151.49	3.05	2.78	91.1	2.47	88.8	4	0.10
151.49	154.53	3.04	2.94	96.7	2.11	71.8	4	0.05
154.53	157.58	3.05	2.96	97.0	2.34	79.1	4	0.01
157.58	160.63	3.05	2.92	95.7	2.06	70.5	4	0.00
160.63	163.68	3.05	2.90	95.1	1.93	66.6	3	0.04
163.68	166.73	3.05	2.62	85.9	2.17	82.8	2	0.11
166.73	169.77	3.04	2.84	93.4	1.74	61.3	3	0.09
169.77	172.82	3.05	2.88	94.4	1.78	61.8	4	0.04
172.82	175.87	3.05	2.83	92.8	2.34	82.7	4	0.06
175.87	178.92	3.05	3.01	98.7	2.47	82.1	4	0.08
178.92	181.97	3.05	3.03	99.3	1.97	65.0	4	0.19
181.97	185.01	3.04	2.89	95.1	1.92	66.4	4	0.14
185.01	188.06	3.05	3.05	100.0	2.16	70.8	4	0.06
188.06	191.11	3.05	2.79	91.5	2.12	76.0	3	0.04
191.11	194.16	3.05	2.94	96.4	2.08	70.7	3	0.10
194.16	197.21	3.05	2.93	96.1	2.03	69.3	3	0.07
197.21	200.25	3.04	3.02	99.3	2.28	75.5	4	0.10
200.25	203.30	3.05	3.00	98.4	2.58	86.0	4	0.04
203.30	206.35	3.05	2.80	91.8	1.93	68.9	4	0.04
206.35	209.40	3.05	2.91	95.4	2.41	82.8	4	0.15
209.40	212.45	3.05	3.00	98.4	2.88	96.0	4	0.16
212.45	215.49	3.04	2.98	98.0	2.98	100.0	4	0.04
215.49	218.54	3.05	3.02	99.0	2.92	96.7	4	0.10
218.54	221.59	3.05	2.98	97.7	2.72	91.3	4	0.03
221.59	224.64	3.05	3.03	99.3	2.12	70.0	4	0.09
224.64	227.69	3.05	2.82	92.5	1.52	53.9	3	0.08
227.69	230.73	3.04	2.89	95.1	1.18	40.8	4	0.11
230.73	233.78	3.05	2.84	93.1	1.58	55.6	4	0.14
233.78	236.83	3.05	3.02	99.0	2.30	76.2	4	0.09
236.83	239.88	3.05	3.05	100.0	2.58	84.6	4	0.12
239.88	242.93	3.05	2.98	97.7	2.87	96.3	4	0.12
242.93	245.97	3.04	2.96	97.4	1.30	43.9	4	0.11
245.97	249.02	3.05	2.88	94.4	1.45	50.3	4	0.08
249.02	252.07	3.05	2.88	94.4	0.93	32.3	3	0.12
252.07	255.12	3.05	2.95	96.7	0.50	16.9	3	0.06
255.12	258.17	3.05	1.72	56.4	0.78	45.3	3	7.15
258.17	261.21	3.04	2.90	95.4	0.83	28.6	4	0.22
261.21	264.26	3.05	2.77	90.8	0.69	24.9	4	0.08
264.26	267.31	3.05	3.00	98.4	1.77	59.0	4	0.07
267.31	270.36	3.05	2.86	93.8	1.75	61.2	4	0.04
270.36	273.41	3.05	2.86	93.8	1.21	42.3	3	0.05
273.41	276.45	3.04	2.84	93.4	0.75	26.4	3	0.13
276.45	279.50	3.05	2.89	94.8	0.60	20.8	3	0.08
279.50	282.55	3.05	3.02	99.0	2.12	70.2	4	0.16
282.55	285.60	3.05	2.76	90.5	2.40	87.0	4	0.23
285.60	288.65	3.05	2.92	95.7	2.35	80.5	4	0.11
288.65	291.69	3.04	3.03	99.7	2.58	85.1	4	0.07
291.69	294.74	3.05	2.96	97.0	1.62	54.7	4	0.09
294.74	297.79	3.05	2.86	93.8	0.95	33.2	3	0.11
297.79	300.84	3.05	3.05	100.0	1.85	60.7	4	0.48
300.84	303.89	3.05	3.02	99.0	2.01	66.6	4	6.00
303.89	306.93	3.04	2.97	97.7	2.05	69.0	4	10.90
306.93	309.98	3.05	2.89	94.8	1.93	66.8	4	0.05
309.98	313.03	3.05	2.78	91.1	0.92	33.1	4	131.00

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
313.03	316.08	3.05	3.02	99.0	1.34	44.37	4	0.12
316.08	319.13	3.05	2.81	92.1	1.32	46.98	4	0.16
319.13	322.17	3.04	2.99	98.4	0.71	23.75	4	6.14
322.17	325.22	3.05	2.76	90.49	0.41	14.86	3	0.05
325.22	328.27	3.05	2.75	90.16	0.49	17.82	3	0.03
328.27	331.32	3.05	2.92	95.74	0.68	23.29	3	0.43
331.32	333.70	2.38	2.94	123.53	1.21	41.16	3	1.79
333.70	337.41	3.71	3.01	81.13	1.55	51.50	4	0.1
337.41	340.46	3.05	2.98	97.70	1.97	66.11	4	0.12
340.46	343.51	3.05	2.78	91.15	1.17	42.09	4	0.16
343.51	346.56	3.05	2.99	98.03	1.59	53.18	4	8.3
346.56	349.61	3.05	2.88	94.43	1.03	35.76	4	0.21
349.61	352.65	3.04	2.97	97.70	1.58	53.20	4	0.07
352.65	355.70	3.05	2.86	93.77	1.32	46.15	3	0.19
355.70	358.75	3.05	3.00	98.36	1.12	37.33	4	0.1
358.75	361.80	3.05	2.91	95.41	1.48	50.86	4	0.13
361.80	364.85	3.05	2.71	88.85	1.57	57.93	4	0.11
364.85	367.89	3.04	3.02	99.34	2.16	71.52	3	0.04
367.89	370.94	3.05	2.91	95.41	1.11	38.14	3	0.45
370.94	373.99	3.05	2.98	97.70	2.11	70.81	3	0.08
373.99	377.04	3.05	2.95	96.72	1.28	43.39	3	12
377.04	380.09	3.05	2.78	91.15	1.31	47.12	4	0.22
380.09	383.13	3.04	2.82	92.76	2.01	71.28	4	2.21
383.13	386.18	3.05	3.00	98.36	1.51	50.33	4	0.21
386.18	389.23	3.05	2.89	94.75	1.77	61.25	4	0.17
389.23	392.28	3.05	2.97	97.38	1.53	51.52	3	19.6
392.28	395.33	3.05	2.94	96.39	1.85	62.93	4	2.21
395.33	398.37	3.04	2.95	97.04	0.95	32.20	4	3.79
398.37	401.42	3.05	3.04	99.67	1.93	63.49	4	0.1
401.42	404.47	3.05	2.87	94.10	2.10	73.17	3	0.08
404.47	407.52	3.05	3.03	99.34	2.35	77.56	3	8.06
407.52	410.57	3.05	2.95	96.72	1.68	56.95	3	56.3
410.57	413.61	3.04	3.03	99.67	2.66	87.79	3	62.8
413.61	416.66	3.05	3.00	98.36	2.11	70.33	3	0.65
416.66	419.71	3.05	2.96	97.05	1.57	53.04	4	3.02
419.71	422.76	3.05	3.00	98.36	1.60	53.33	4	0.13
422.76	425.81	3.05	2.99	98.03	2.24	74.92	4	7.42
425.81	428.85	3.04	2.89	95.07	2.14	74.05	4	6.52
428.85	431.90	3.05	3.00	98.36	1.53	51.00	4	0.1
431.90	434.95	3.05	2.97	97.38	1.51	50.84	4	0.04
434.95	438.00	3.05	3.01	98.69	2.47	82.06	4	0.05
438.00	441.05	3.05	2.99	98.03	1.52	50.84	4	0.1
441.05	444.09	3.04	2.94	96.71	1.55	52.72	3	0.04
444.09	447.14	3.05	2.89	94.75	1.37	47.40	4	0.04
447.14	450.19	3.05	3.01	98.69	2.57	85.38	4	0.05
450.19	453.24	3.05	3.00	98.36	1.80	60.00	4	0.06
453.24	456.29	3.05	2.99	98.03	2.46	82.27	4	0.05
456.29	459.33	3.04	2.92	96.05	2.15	73.63	4	0.05
459.33	462.38	3.05	2.86	93.77	2.59	90.56	4	0.05
462.38	465.43	3.05	2.95	96.72	2.26	76.61	4	0.08
465.43	468.48	3.05	3	98.36	1.71	57.00	4	0.07
468.48	471.53	3.05	2.98	97.70	2.63	88.26	4	0.05
471.53	474.57	3.04	2.92	96.05	2.37	81.16	4	0.09
474.57	477.62	3.05	3	98.36	2.44	81.33	4	0.09
477.62	480.67	3.05	2.83	92.79	2.28	80.57	4	0.13
480.67	483.72	3.05	2.9	95.08	2.08	71.72	4	0.6

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
483.72	486.77	3.05	2.92	95.74	2.18	74.66	4	2.08
486.77	489.81	3.04	2.84	93.42	2.06	72.54	4	0.12
489.81	492.86	3.05	3.08	100.98	1.76	57.14	4	0.23
492.86	495.91	3.05	2.77	90.82	2.06	74.37	4	1.27
495.91	498.96	3.05	2.98	97.70	2.42	81.21	4	0.07
498.96	502.01	3.05	2.85	93.44	2.14	75.09	4	3.53
502.01	505.05	3.04	2.76	90.79	1.24	44.93	4	0.26
505.05	508.1	3.05	2.8	91.80	1.74	62.14	4	0.46
508.1	511.15	3.05	2.84	93.11	1.84	64.79	4	0.13
511.15	514.2	3.05	2.92	95.74	2.34	80.14	4	0.48
514.2	517.25	3.05	2.98	97.70	2.30	77.18	4	1.51
517.25	520.29	3.04	3	98.68	2.13	71.00	4	0.08
520.29	523.34	3.05	2.9	95.08	1.76	60.69	4	19.8
523.34	526.39	3.05	2.83	92.79	2.14	75.62	4	19.5
526.39	529.44	3.05	2.82	92.46	2.16	76.60	4	0.09
529.44	532.49	3.05	2.91	95.41	2.45	84.19	4	0.48
532.49	535.84	3.35	3.02	90.15	2.34	77.48	4	0.1
535.84	538.58	2.74	2.99	109.12	2.44	81.61	4	4.13
538.58	541.63	3.05	3.01	98.69	2.00	66.45	4	0.27
541.63	544.68	3.05	2.97	97.38	2.28	76.77	4	2.17
544.68	547.73	3.05	2.88	94.43	2.00	69.44	4	2.63
547.73	550.77	3.04	3.05	100.33	2.16	70.82	4	9.84
550.77	553.82	3.05	2.87	94.10	2.01	70.03	4	7.02
553.82	556.87	3.05	2.95	96.72	0.95	32.20	4	3.33
556.87	559.92	3.05	2.75	90.16	1.47	53.45	4	0.62
559.92	562.97	3.05	2.99	98.03	0.88	29.43	4	1.84
562.97	566.01	3.04	3	98.68	1.65	55.00	4	8.91
566.01	569.06	3.05	2.83	92.79	1.29	45.58	4	10.5
569.06	572.11	3.05	2.64	86.56	0.91	34.47	4	6.23
572.11	575.16	3.05	2.86	93.77	1.42	49.65	4	10.7
575.16	578.21	3.05	2.97	97.38	0.92	30.98	4	10.2
578.21	581.25	3.04	2.88	94.74	1.37	47.57	4	6
581.25	584.3	3.05	3.01	98.69	1.24	41.20	4	11
584.3	587.35	3.05	2.88	94.43	1.55	53.82	4	10.1
587.35	590.4	3.05	2.95	96.72	0.53	17.97	4	15.7
590.4	593.45	3.05	2.93	96.07	1.14	38.91	4	2.79
593.45	596.49	3.04	2.96	97.37	1.73	58.45	3	5.54
596.49	599.59	3.1	2.72	87.74	1.34	49.26	4	5.48
599.59	602.59	3	2.74	91.33	1.26	45.99	4	10.4

E.O.H.

Date: June 21/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-07

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
0.00	3.05	3.05						
3.05	6.71	3.66	2.94	80.33	1.04	35.37	4	17.70
6.71	9.75	3.04	2.31	75.99	0.30	12.99	3	23.00
9.75	12.80	3.05	2.88	94.43	1.20	41.67	3	16.30
12.80	15.85	3.05	2.76	90.49	1.40	50.72	4	5.08
15.85	18.90	3.05	2.24	73.44	0.76	33.93	3	12.90
18.90	21.95	3.05	2.91	95.41	1.96	67.35	4	20.00
21.95	24.99	3.04	3.04	100.00	2.20	72.37	3	8.68
24.99	28.04	3.05	2.98	97.70	2.79	93.62	3	6.85
28.04	31.09	3.05	2.58	84.59	1.40	54.26	3	8.76
31.09	32.61	1.52	1.50	98.68	0.58	38.67	3	11.30
32.61	34.14	1.53	1.42	92.81	1.28	90.14	3	17.20
34.14	35.66	1.52	1.60	105.26	0.88	55.00	3	8.51
35.66	37.19	1.53	1.52	99.35	1.16	76.32	3	7.96
37.19	38.71	1.52	1.43	94.08	0.77	53.85	4	19.00
38.71	40.23	1.52	1.30	85.53	0.63	48.46	4	0.01
40.23	41.76	1.53	1.48	96.73	0.59	39.86	2	0.02
41.76	43.28	1.52	1.57	103.29	1.33	84.71	2	0.01
43.28	44.81	1.53	1.40	91.50	0.80	57.14	2	0.03
44.81	46.33	1.52	1.38	90.79	1.15	83.33	2	0.01
46.33	47.85	1.52	1.50	98.68	1.00	66.67	3	0.04
47.85	49.38	1.53	1.38	90.20	0.64	46.38	2	0.07
49.38	50.90	1.52	1.35	88.82	0.00	0.00	2	0.22
50.90	52.43	1.53	1.16	75.82	0.55	47.41	3	0.12
52.43	55.17	2.74	2.15	78.47	1.30	60.47	3	0.15
55.17	57.00	1.83	1.91	104.37	1.23	64.40	3	0.24
57.00	60.05	3.05	2.70	88.52	1.44	53.33	3	0.24
60.05	63.09	3.04	2.26	74.34	0.80	35.40	3	0.15
63.09	66.14	3.05	2.45	80.33	0.60	24.49	3	0.05
66.14	69.19	3.05	2.82	92.46	1.22	43.26	3	0.18
69.19	72.24	3.05	2.94	96.39	1.12	38.10	3	0.12
72.24	75.29	3.05	2.74	89.84	0.55	20.07	3	0.22
75.29	78.33	3.04	2.76	90.79	1.06	38.41	2	0.93
78.33	81.38	3.05	2.74	89.84	1.60	58.39	2	0.47
81.38	84.43	3.05	2.46	80.66	0.87	35.37	2	0.22
84.43	87.48	3.05	2.80	91.80	1.55	55.36	2	1.97
87.48	90.53	3.05	2.89	94.75	0.66	22.84	2	2.10
90.53	93.57	3.04	2.82	92.76	1.62	57.45	3	2.37
93.57	96.62	3.05	2.82	92.46	1.71	60.64	3	17.50
96.62	99.67	3.05	2.98	97.70	2.98	100.00	3	20.30
99.67	102.72	3.05	2.98	97.70	2.98	100.00	4	20.10
102.72	105.77	3.05	2.87	94.10	2.76	96.17	4	10.20
105.77	108.81	3.04	2.93	96.38	2.05	69.97	4	0.26
108.81	111.86	3.05	2.90	94.99	1.57	54.14	4	14.50
111.86	114.91	3.05	3.01	98.79	2.33	77.41	4	6.50
114.91	117.96	3.05	2.98	97.70	2.47	82.89	4	9.40
117.96	121.01	3.05	2.80	91.80	2.30	82.14	3	1.09
121.01	124.06	3.05	2.85	93.44	1.86	65.26	3	0.05
124.06	127.10	3.04	2.74	90.13	1.69	61.68	3	0.09

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
127.10	130.15	3.05	2.84	93.11	1.71	60.21	3	0.27
130.15	133.20	3.05	2.79	91.48	2.21	79.21	3	4.48
133.20	136.25	3.05	2.75	90.16	1.27	46.18	3	0.33
136.25	139.29	3.04	2.77	91.12	1.56	56.32	4	0.11
139.29	142.34	3.05	2.86	93.77	2.39	83.57	4	0.08
142.34	145.39	3.05	2.70	88.52	1.27	47.04	4	0.76
145.39	148.44	3.05	2.82	92.46	1.71	60.64	4	15.10
148.44	151.49	3.05	2.98	97.70	1.01	33.89	4	9.00
151.49	154.53	3.04	3.01	99.01	2.43	80.73	3	0.54
154.53	157.58	3.05	2.77	90.82	1.49	53.79	4	0.85
157.58	160.63	3.05	2.79	91.48	1.46	52.33	4	0.27
160.63	163.68	3.05	2.94	96.39	1.52	51.70	4	1.22
163.68	166.73	3.05	2.81	92.13	1.28	45.55	4	0.56
166.73	169.77	3.04	2.88	94.74	1.58	54.86	4	7.80
169.77	172.82	3.05	2.97	97.38	2.49	83.84	4	0.18
172.82	175.87	3.05	2.88	94.43	1.75	60.76	4	1.66
175.87	178.92	3.05	2.98	97.70	2.22	74.50	4	0.46
178.92	181.97	3.05	2.90	95.08	1.47	50.69	3	0.16
181.97	185.01	3.04	2.94	96.71	1.78	60.54	3	4.54
185.01	188.06	3.05	2.87	94.10	2.25	78.40	4	0.48
188.06	191.11	3.05	2.95	96.72	2.05	69.49	4	0.87
191.11	194.16	3.05	2.99	98.03	2.25	75.25	3	4.68
194.16	197.21	3.05	3.00	98.36	1.83	61.00	4	0.31
197.21	200.25	3.04	2.81	92.43	1.82	64.77	4	0.33
200.25	203.30	3.05	2.91	95.41	2.08	71.48	4	1.30
203.30	206.35	3.05	3.04	99.67	2.53	83.22	4	22.50
206.35	209.40	3.05	3.00	98.36	2.14	71.33	4	0.33
209.40	212.45	3.05	2.98	97.70	2.18	73.15	4	0.36
212.45	215.49	3.04	3.00	98.68	2.32	77.33	4	0.24
215.49	218.54	3.05	2.99	98.03	1.97	65.89	4	4.34
218.54	221.59	3.05	2.88	94.43	1.35	46.88	4	4.99
221.59	224.64	3.05	2.95	96.72	1.53	51.86	4	3.07
224.64	227.69	3.05	2.84	93.11	0.78	27.46	4	8.20
227.69	230.73	3.04	3.02	99.34	2.42	80.13	3	0.17
230.73	233.78	3.05	2.94	96.39	2.04	69.39	4	0.15
233.78	236.83	3.05	2.97	97.38	1.74	58.59	2	0.29
236.83	239.88	3.05	2.97	97.38	2.29	77.10	4	9.52
239.88	242.93	3.05	3.02	99.02	1.78	58.94	4	2.09
242.93	245.97	3.04	3.04	100.00	1.23	40.46	4	1.69
245.97	249.02	3.05	3.01	98.69	2.81	93.36	4	13.90
249.02	252.07	3.05	3.00	98.36	2.83	94.33	4	0.88
252.07	255.12	3.05	2.99	98.03	2.63	87.96	4	7.92
255.12	258.17	3.05	2.97	97.38	1.38	46.46	4	2.31
258.17	261.21	3.04	2.95	97.04	2.74	92.88	3	0.48
261.21	264.26	3.05	2.96	97.05	2.68	90.54	4	0.20
264.26	267.31	3.05	3.07	100.66	2.77	90.23	4	0.62
267.31	270.36	3.05	2.85	93.44	1.93	67.72	4	0.36
270.36	273.41	3.05	2.95	96.72	1.56	52.88	4	0.11
273.41	276.45	3.04	2.90	95.39	1.53	52.76	4	0.14
276.45	279.50	3.05	2.96	97.05	2.31	78.04	4	18.10
279.50	282.55	3.05	3.01	98.69	2.60	86.38	3	3.26
282.55	285.60	3.05	2.94	96.39	2.28	77.55	4	24.80
285.60	288.65	3.05	2.91	95.41	2.25	77.32	4	162.00
288.65	291.69	3.04	2.88	94.74	1.95	67.71	4	33.50
291.69	294.74	3.05	2.79	91.48	2.11	75.70	4	6.86
294.74	297.79	3.05	2.96	97.05	2.71	91.55	4	0.03

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
297.79	300.84	3.05	2.93	96.07	2.28	77.82	4	0.32
300.84	303.89	3.05	2.94	96.39	1.60	54.42	4	0.33
303.89	306.93	3.04	3.01	99.01	2.83	94.02	4	7.65
306.93	309.98	3.05	2.80	91.80	1.94	69.29	4	0.19
309.98	313.03	3.05	2.89	94.75	2.18	75.43	4	0.27
313.03	316.08	3.05	3.08	100.98	2.08	67.53	4	0.32
316.08	319.13	3.05	2.90	95.08	2.60	89.66	4	4.86
319.13	325.22	6.09	6.22	102.13	4.90	78.78	4	0.67
325.22	331.32	6.10	5.56	91.15	4.28	76.98	4	19.50
331.32	337.41	6.09	5.86	96.22	5.58	95.22	4	0.31
337.41	343.51	6.10	5.83	95.57	5.36	91.94	4	9.95
343.51	349.61	6.10	5.96	97.70	5.45	91.44	4	0.48
349.61	355.70	6.09	5.95	97.70	3.76	63.19	4	10.00
355.70	361.80	6.10	5.78	94.75	4.61	79.76	4	35.00
361.80	367.89	6.09	5.71	93.76	4.09	71.63	4	1.32
367.89	373.99	6.10	5.89	96.56	3.82	64.86	3	7.08
373.99	377.04	3.05	2.73	89.51	2.26	82.78	4	17.30
377.04	380.09	3.05	3.02	99.02	2.19	72.52	4	0.59
380.09	383.13	3.04	2.82	92.76	2.44	86.52	4	0.84
383.13	386.18	3.05	3.02	99.02	2.84	94.04	4	0.23
386.18	389.23	3.05	2.94	96.39	2.53	86.05	4	22.80
389.23	392.28	3.05	2.79	91.48	2.61	93.55	4	7.12
392.28	395.33	3.05	3.03	99.34	2.85	94.06	4	0.21
395.33	398.37	3.04	3.05	100.33	2.99	98.03	4	0.41
398.37	401.42	3.05	2.86	93.77	2.75	96.15	4	0.23
401.42	404.47	3.05	3.06	100.33	2.91	95.10	4	0.19
404.47	407.52	3.05	2.93	96.07	2.91	99.32	4	2.95
407.52	410.57	3.05	2.98	97.70	2.70	90.60	4	0.34
410.57	413.61	3.04	2.92	96.05	2.70	92.47	4	0.15
413.61	416.66	3.05	2.89	94.75	2.72	94.12	4	0.09
416.66	419.71	3.05	2.99	98.03	2.83	94.65	4	0.08
419.71	422.76	3.05	2.82	92.46	2.51	89.01	4	4.80
422.76	425.81	3.05	3.03	99.34	2.78	91.75	4	1.85
425.81	428.85	3.04	3.02	99.34	2.77	91.72	4	0.58
428.85	431.90	3.05	3.02	99.02	2.93	97.02	4	0.29
431.90	434.95	3.05	2.95	96.72	2.85	96.61	4	0.19
434.95	438.00	3.05	2.99	98.03	2.90	96.99	4	0.15
438.00	441.05	3.05	3.03	99.34	2.80	92.41	4	0.22
441.05	444.09	3.04	2.95	97.04	2.89	97.97	4	0.16
444.09	447.14	3.05	3.00	98.36	2.85	95.00	4	0.15
447.14	453.24	6.10	5.97	97.87	5.61	93.97	4	0.22
453.24	459.33	6.09	5.62	92.28	5.32	94.66	4	0.58
459.33	465.43	6.10	6.10	100.00	5.42	88.85	4	0.70
465.43	471.53	6.10	5.88	96.39	5.22	88.78	4	0.13
471.53	477.62	6.09	5.94	97.54	4.46	75.08	4	0.21
477.62	483.72	6.10	5.88	96.39	4.78	81.29	4	11.20
483.72	489.81	6.09	5.84	95.89	5.20	89.04	4	0.21
489.81	495.91	6.10	6.02	98.69	5.56	92.36	4	1.40
495.91	502.01	6.10	5.82	95.41	4.66	80.07	4	0.21
502.01	508.10	6.09	5.73	94.09	4.09	71.38	4	28.50
508.10	514.20	6.10	5.61	91.97	4.11	73.26	4	37.70
514.20	518.46	4.26	4.08	95.77	1.53	37.50	4	22.90
518.46	520.29	1.83	1.64	89.62	1.22	74.39	4	148.00
520.29	523.34	3.05	2.86	93.77	1.16	40.56	4	21.20
523.34	526.39	3.05	3.06	100.33	2.50	81.70	4	19.40
526.39	529.44	3.05	2.67	87.54	1.40	52.43	4	16.40

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
529.44	532.49	3.05	2.83	92.79	2.00	70.67	4	20.20
532.49	535.53	3.04	2.85	93.75	0.97	34.04	4	18.80
535.53	537.67	2.14	2.99	139.72	1.26	42.14	4	15.10
537.67	541.63	3.96	3.46	87.37	2.29	66.18	4	98.40
541.63	547.73	6.10	5.96	97.70	2.74	45.97	4	64.80
547.73	553.82	6.09	5.90	96.88	2.91	49.32	4	73.10
553.82	559.92	6.10	5.70	93.44	3.40	59.65	4	52.40
559.92	564.18	4.26	4.10	96.24	0.98	23.90	4	
564.18	569.07	4.89	4.54	92.84	1.89	41.63	4	
569.07	572.11	3.04	2.75	90.46	1.32	48.00	4	
572.11	575.16	3.05	2.82	92.46	1.18	41.84	4	
575.16	578.21	3.05	2.90	95.08	0.11	3.79	4	
578.21	581.25	3.04	2.17	71.38	0.26	11.98	4	
581.25	584.30	3.05	2.91	95.41	0.89	30.58	4	
584.30	587.35	3.05	2.35	77.05	0.86	36.60	4	
587.35	590.40	3.05	2.89	94.75	0.94	32.53	4	
590.40	593.45	3.05	2.99	98.03	2.16	72.24	4	
593.45	598.63	5.18	4.98	96.14	1.37	27.51	4	
598.63	602.59	3.96	3.77	95.20	2.24	59.42	4	
602.59	608.69	6.10	5.09	83.44	3.22	63.26	4	
608.69	611.73	3.04	2.61	85.86	1.77	67.82	4	
611.73	614.78	3.05	2.97	97.38	1.36	45.79	4	
614.78	617.83	3.05	2.93	96.07	2.11	72.01	4	
617.83	620.88	3.05	3.01	98.69	1.44	47.84	4	
620.88	623.90	3.02	3.10	102.65	1.66	53.55	4	
623.90	626.94	3.04	3.01	99.01	2.19	72.76	4	
626.94	629.99	3.05	2.95	96.72	1.26	42.71	4	
629.99	633.04	3.05	3.11	101.97	2.17	69.77	4	
633.04	639.17	6.13	5.42	88.42	2.89	53.32	4	
639.17	645.26	6.09	5.88	96.55	2.03	34.52	4	
645.26	651.36	6.10	5.40	88.52	2.60	48.15	4	
651.36	657.45	6.09	3.69	60.59	1.29	34.96	4	
657.45	660.50	3.05	2.57	84.26	0.18	7.00	4	
660.50	663.55	3.05	2.10	68.85	1.77	84.29	4	
663.55	669.65	6.10	4.23	69.34	2.00	47.28	4	
669.65	675.74	6.09	5.80	95.24	3.05	52.59	4	
675.74	681.80	6.06	5.30	87.46	2.21	41.70	4	
681.80	684.85	3.05	2.10	68.85	1.40	66.67	4	
684.85	687.90	3.05	2.94	96.39	1.80	61.22	4	
687.90	690.95	3.05	2.72	89.18	2.36	86.76	4	
690.95	693.99	3.04	3.15	103.62	2.65	84.13	4	
693.99	697.04	3.05	2.95	96.72	2.70	91.53	4	
697.04	700.09	3.05	2.90	95.08	2.16	74.48	4	
700.09	703.17	3.08	2.60	84.42	1.24	47.69	4	
703.17	706.22	3.05	2.95	96.72	1.38	46.78	4	
706.22	712.32	6.10	5.05	82.79	1.49	29.50	4	
712.32	718.41	6.09	5.31	87.19	2.15	40.49	4	
718.41	724.51	6.10	5.51	90.33	2.40	43.56	4	
724.51	730.61	6.10	5.91	96.89	2.98	50.42	4	
730.61	736.70	6.09	5.31	87.19	2.65	49.91	4	

E.O.H.

Date: July 7/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-16

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	1.52	CASING					
1.52	3.05	1.53	0.90	58.82	0.00	0.0	4
3.05	4.57	1.52	0.80	52.63	0.00	0.0	4
4.57	6.10	1.53	0.00	0.00	0.00	0.0	4
6.10	7.62	1.52	0.80	52.63	0.00	0.0	4
7.62	9.14	1.52	1.10	72.37	0.00	0.0	4
9.14	10.67	1.53	0.55	35.95	0.00	0.0	4
10.67	12.19	1.52	0.82	53.95	0.26	31.7	4
12.19	13.72	1.53	0.60	39.22	0.00	0.0	4
13.72	15.24	1.52	1.47	96.71	0.82	55.8	4
15.24	16.76	1.52	1.03	67.76	0.10	9.7	3
16.76	18.29	1.53	1.23	80.39	0.85	69.1	4
18.29	19.81	1.52	0.34	22.37	0.11	32.4	4
19.81	21.34	1.53	0.56	36.60	0.31	55.4	4
21.34	22.86	1.52	0.70	46.05	0.24	34.3	4
22.86	24.38	1.52	0.35	23.03	0.00	0.0	4
24.38	25.91	1.53	0.40	26.14	0.00	0.0	4
25.91	27.43	1.52	0.94	61.84	0.10	10.6	4
27.43	28.96	1.53	0.49	32.03	0.13	26.5	4
28.96	30.48	1.52	1.46	96.05	1.29	88.4	4
30.48	32.00	1.52	0.64	42.11	0.36	56.3	4
32.00	33.53	1.53	0.93	60.78	0.11	11.8	4
33.53	35.05	1.52	0.54	35.53	0.00	0.0	4
35.05	36.58	1.53	0.75	49.02	0.23	30.7	4
36.58	38.10	1.52	0.64	42.11	0.00	0.0	4
38.10	39.62	1.52	0.84	55.26	0.13	15.5	4
39.62	41.15	1.53	0.80	52.29	0.00	0.0	4
41.15	42.67	1.52	1.02	67.11	0.00	0.0	4
42.67	44.20	1.53	1.04	67.97	0.20	19.2	4
44.20	45.72	1.52	1.05	69.08	0.00	0.0	4
45.72	47.24	1.52	1.00	65.79	0.00	0.0	4
47.24	48.77	1.53	1.12	73.20	0.13	11.6	4
48.77	50.29	1.52	0.48	31.58	0.00	0.0	4
50.29	51.82	1.53	1.32	86.27	0.00	0.0	4
51.82	53.34	1.52	0.48	31.58	0.00	0.0	4
53.34	54.86	1.52	1.12	73.68	0.30	26.8	4
54.86	56.39	1.53					
56.39	57.91	1.52	2.06	135.53	0.10	4.9	4
57.91	59.44	1.53	1.26	82.35	0.30	23.8	4
59.44	60.96	1.52	1.36	89.47	0.24	17.6	4
60.96	62.48	1.52	0.99	65.13	0.18	18.2	4
62.48	64.01	1.53	1.06	69.28	0.10	9.4	4
64.01	65.53	1.52	1.22	80.26	0.26	21.3	4
65.53	67.00	1.47	1.07	72.79	0.32	29.9	4
67.00	68.58	1.58	0.88	55.70	0.11	12.5	4
68.58	70.10	1.52	0.98	64.47	0.17	17.3	4
70.10	71.63	1.53	0.92	60.13	0.00	0.0	4
71.63	73.15	1.52	0.90	59.21	0.00	0.0	4
73.15	74.68	1.53	0.66	43.14	0.13	19.7	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
74.68	76.20	1.52	0.78	51.32	0.12	15.4	4
76.20	77.72	1.52	0.80	52.63	0.00	0.0	4
77.72	79.25	1.53	1.20	78.43	0.38	31.7	4
79.25	80.77	1.52	1.42	93.42	0.77	54.2	4
80.77	82.20	1.43	1.18	82.52	0.11	9.3	4
82.20	83.82	1.62	1.25	77.16	0.34	27.2	4
83.82	85.34	1.52	1.14	75.00	0.00	0.0	4
85.34	86.87	1.53	1.16	75.82	0.00	0.0	4
86.87	88.39	1.52	1.26	82.89	0.10	7.9	4
88.39	89.92	1.53	1.30	84.97	0.00	0.0	4
89.92	91.44	1.52	1.08	71.05	0.00	0.0	4
91.44	92.96	1.52	1.38	90.79	0.11	8.0	4
92.96	94.49	1.53	1.52	99.35	0.00	0.0	4
94.49	96.01	1.52	1.76	115.79	0.00	0.0	4
96.01	97.54	1.53	1.32	86.27	0.00	0.0	4
97.54	99.06	1.52	1.52	100.00	0.00	0.0	4
99.06	100.58	1.52	1.54	101.32	0.26	16.9	4
100.58	102.11	1.53	1.58	103.27	0.00	0.0	4
102.11	103.63	1.52	1.14	75.00	0.00	0.0	4
103.63	105.16	1.53	1.51	98.69	0.39	25.8	4
105.16	106.68	1.52	1.04	68.42	0.40	38.5	4
106.68	108.20	1.52	0.79	51.97	0.00	0.0	4
108.20	109.73	1.53	0.78	50.98	0.26	33.3	4
109.73	112.78	3.05	1.51	49.51	0.00	0.0	4
112.78	115.82	3.04	1.69	55.59	0.11	6.5	4
115.82	118.87	3.05	2.24	73.44	0.81	36.2	4
118.87	121.92	3.05	2.70	88.52	0.42	15.6	4
121.92	124.97	3.05	2.32	76.07	0.82	35.3	4
124.97	128.02	3.05	2.53	82.95	1.22	48.2	4
128.02	131.06	3.04	2.68	88.16	1.88	70.1	4
131.06	134.11	3.05	2.60	85.25	0.92	35.4	4
134.11	137.16	3.05	2.70	88.52	0.67	24.8	4
137.16	140.21	3.05	2.61	85.57	1.25	47.9	4
140.21	143.26	3.05	2.60	85.25	0.68	26.2	3
143.26	146.30	3.04	2.48	81.58	0.23	9.3	3
146.30	149.35	3.05	2.96	97.05	1.32	44.6	3
149.35	152.40	3.05	2.47	80.98	1.00	40.5	3
152.40	155.45	3.05	2.43	79.67	0.59	24.3	3
155.45	158.50	3.05	2.49	81.64	0.92	36.9	4
158.50	161.54	3.04	2.71	89.14	0.72	26.6	4
161.54	164.59	3.05	2.80	91.80	0.52	18.6	4
164.59	167.64	3.05	2.89	94.75	1.00	34.6	4
167.64	170.69	3.05	2.83	92.79	0.69	24.4	4
170.69	173.74	3.05	2.53	82.95	0.76	30.0	4
173.74	176.78	3.04	2.73	89.80	0.70	25.6	4
176.78	179.83	3.05	2.46	80.66	0.69	28.0	4
179.83	182.88	3.05	2.99	98.03	0.83	27.8	3
182.88	185.93	3.05	2.68	87.87	0.52	19.4	3
185.93	188.98	3.05	2.74	89.84	0.53	19.3	3
188.98	192.02	3.04	2.67	87.83	0.60	22.5	3
192.02	195.07	3.05	2.58	84.59	0.50	19.4	3
195.07	198.12	3.05	2.23	73.11	1.24	55.6	3
198.12	201.17	3.05	2.69	88.20	0.83	30.9	3
201.17	204.22	3.05	2.72	89.18	1.46	53.7	4
204.22	207.26	3.04	2.94	96.71	1.39	47.3	3
207.26	210.31	3.05	2.74	89.84	1.72	62.8	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
210.31	213.36	3.05	2.64	86.56	0.65	24.6	4
213.36	216.41	3.05	2.70	88.52	0.60	22.2	4
216.41	219.46	3.05	2.47	80.98	0.33	13.4	4
219.46	222.50	3.04	2.43	79.93	1.52	62.6	3
222.50	225.55	3.05	2.73	89.51	1.18	43.2	3
225.55	228.60	3.05	2.70	88.52	1.03	38.1	4
228.60	231.65	3.05	2.76	90.49	1.43	51.8	4
231.65	234.70	3.05	2.78	91.15	1.28	46.0	4
234.70	237.74	3.04	2.79	91.78	1.30	46.6	4
237.74	240.79	3.05	2.90	95.08	1.76	60.7	4
240.79	243.84	3.05	2.81	92.13	0.80	28.5	4
243.84	246.89	3.05	2.70	88.52	1.50	55.6	3
246.89	249.94	3.05	2.83	92.79	1.90	67.1	3
249.94	252.98	3.04	2.83	93.09	1.38	48.8	4
252.98	256.03	3.05	2.58	84.59	1.87	72.5	4
256.03	259.08	3.05	2.67	87.54	1.60	59.9	3
259.08	262.13	3.05	2.76	90.49	2.01	72.8	3
262.13	265.18	3.05	2.69	88.20	0.75	27.9	3
265.18	268.22	3.04	2.74	90.13	1.54	56.2	3
268.22	271.27	3.05	2.37	77.70	1.56	65.8	4
271.27	274.32	3.05	0.45	14.75	0.00	0.0	3
274.32	277.37	3.05	0.30	9.84	0.00	0.0	3
277.37	280.42	3.05	1.94	63.61	1.63	84.0	4
280.42	283.46	3.04	2.85	93.75	1.97	69.1	3
283.46	286.51	3.05	2.74	89.84	1.00	36.5	4
286.51	289.56	3.05	2.81	92.13	1.05	37.4	4
289.56	292.61	3.05	3.02	99.02	1.09	36.1	4
292.61	295.66	3.05	2.85	93.44	1.92	67.4	4
295.66	298.70	3.04	2.67	87.83	1.09	40.8	4
298.70	301.75	3.05	2.80	91.80	1.29	46.1	4
301.75	304.80	3.05	2.84	93.11	1.78	62.7	4
304.80	307.85	3.05	2.62	85.90	0.57	21.8	3
307.85	310.90	3.05	2.63	86.23	0.46	17.5	3
310.90	313.94	3.04	2.88	94.74	1.22	42.4	3
313.94	316.99	3.05	2.87	94.10	1.20	41.8	3
316.99	320.04	3.05	2.38	78.03	1.23	51.7	4
320.04	323.09	3.05	2.86	93.77	1.42	49.7	4
323.09	326.14	3.05	2.82	92.46	0.76	27.0	4
326.14	329.18	3.04	2.79	91.78	1.50	53.8	4
329.18	332.23	3.05	2.80	91.80	1.89	67.5	4
332.23	335.28	3.05	2.98	97.70	2.24	75.2	4
335.28	338.33	3.05	2.97	97.38	1.40	47.1	4
338.33	341.38	3.05	2.86	93.77	1.36	47.6	4
341.38	344.42	3.04	2.80	92.11	1.92	68.6	4
344.42	347.47	3.05	3.03	99.34	2.11	69.6	4
347.47	350.52	3.05	2.88	94.43	1.76	61.1	4
350.52	353.57	3.05	2.71	88.85	1.11	41.0	4
353.57	356.62	3.05	3.05	100.00	1.79	58.7	4
356.62	359.66	3.04	2.88	94.74	1.63	56.6	4
359.66	362.71	3.05	1.98	64.92	0.80	40.4	4
362.71	365.76	3.05	2.54	83.28	0.80	31.5	4
365.76	368.81	3.05	2.45	80.33	1.45	59.2	4
368.81	371.86	3.05	2.95	96.72	2.37	80.3	4
371.86	374.90	3.04	2.94	96.71	1.99	67.7	4
374.90	377.95	3.05	2.87	94.10	1.16	40.4	4
377.95	381.00	3.05	2.81	92.13	2.22	79.0	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
381.00	384.05	3.05	2.99	98.03	2.37	79.3	4
384.05	387.10	3.05	2.98	97.70	2.27	76.2	4
387.10	390.14	3.04	2.82	92.76	1.86	66.0	4
390.14	393.19	3.05	2.97	97.38	1.93	65.0	4
393.19	396.24	3.05	2.99	98.03	1.64	54.8	4
396.24	399.29	3.05	2.96	97.05	1.06	35.8	4
399.29	402.34	3.05	2.79	91.48	2.02	72.4	4
402.34	405.38	3.04	3.02	99.34	1.67	55.3	4
405.38	408.43	3.05	2.88	94.43	0.92	31.9	4
408.43	411.48	3.05	2.88	94.43	0.97	33.7	4
411.48	414.53	3.05	2.95	96.72	1.49	50.5	4
414.53	417.58	3.05	2.87	94.10	0.89	31.0	4
417.58	420.62	3.04	2.97	97.70	1.11	37.4	4
420.62	423.67	3.05	3.03	99.34	1.66	54.8	4
E.O.H.							

Date: June 21/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-09

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
3.66	5.18	1.52	0.72	47.4	0	0.0	3	0.02
5.18	8.23	3.05	2.93	96.1	2.12	72.4	4	0.02
8.23	11.28	3.05	2.82	92.5	1.14	40.4	4	0.01
11.28	14.33	3.05	1.91	62.6	0.22	11.5	4	0.02
14.33	17.37	3.04	2.42	79.6	0.12	5.0	4	0.04
17.37	20.42	3.05		0.0			4	0.03
20.42	23.47	3.05	3.04	99.7	0.29	9.5	4	0.02
23.47	26.52	3.05	2.69	88.2	0.69	25.7	4	0.15
26.52	29.57	3.05	2.39	78.4	0.86	36.0	4	0.01
29.57	32.61	3.04	2.51	82.6	0.75	29.9	4	0.01
32.61	35.66	3.05	2.48	81.3	0.60	24.2	4	0.04
35.66	38.71	3.05	2.87	94.1	0.86	30.0	4	0.01
38.71	41.76	3.05	2.50	82.0	0.70	28.0	4	0.01
41.76	44.81	3.05	2.76	90.5	0.87	31.5	4	0.01
44.81	47.85	3.04	2.36	77.6	0.24	10.2	4	0.02
47.85	50.90	3.05	2.7	88.5	0.65	24.1	4	0.06
50.90	53.95	3.05	2.93	96.1	0.69	23.5	4	0.01
53.95	57.00	3.05	2.56	83.9	0.72	28.1	4	0.01
57.00	60.05	3.05	2.9	95.1	0.50	17.2	4	0.13
60.05	63.09	3.04	2.85	93.7	1.77	62.1	4	0.04
63.09	66.14	3.05	2.86	93.8	0.81	28.3	4	
66.14	69.19	3.05	2.84	93.1	1.42	50.0	4	
69.19	72.24	3.05	2.74	89.8	1.58	57.7	4	
72.24	75.29	3.05	2.8	91.8	1.50	53.6	4	
75.29	78.33	3.04	2.93	96.4	2.35	80.2	4	
78.33	81.38	3.05	3.05	100.0	2.32	76.1	4	
81.38	84.43	3.05	2.81	92.1	0.39	13.9	4	
84.43	87.48	3.05	2.73	89.5	0.00	0.0	4	
87.48	89.92	2.44	2.31	94.7	0.37	16.0	3	
89.92	92.66	2.74	2.15	78.5	0.38	17.7	4	
92.66	93.57	0.91	0.68	74.7	0.00	0.0	3	
93.57	96.01	2.44	2.07	84.8	0.00	0.0	3	
96.01	96.93	0.92	0.60	65.2	0.00	0.0	3	
96.93	99.67	2.74	1.95	71.2	0.00	0.0	3	
99.67	102.72	3.05	2.85	93.4	0.00	0.0	3	
102.72	105.77	3.05	2.26	74.1	0.00	0.0	3	0.03
105.77	106.98	1.21	1.15	95.0	0.00	0.0	3	0.05
106.98	108.20	1.22	1.18	96.7	0.00	0.0	3	0.23
108.20	109.12	0.92	0.88	95.7	0.00	0.0	3	0.01
109.12	111.56	2.44	2.02	82.8	0.00	0.0	3	0.08
111.56	112.78	1.22	0.96	78.7	0.00	0.0	3	0.03
112.78	114.60	1.82	1.92	105.5	0.00	0.0	3	
114.60	115.80	1.20	0.6	50.0	0.00	0.0	3	0.62
115.80	117.96	2.16	1.96	90.7	0.00	0.0	4	0.10
117.96	120.70	2.74	2.28	83.2	0.00	0.0	4	0.03
120.70	123.14	2.44	2.06	84.4	0.00	0.0	4	0.03
123.14	126.19	3.05	1.9	62.3	0.00	0.0	4	0.06
126.19	127.71	1.52	1.12	73.7	0.00	0.0	4	0.04
127.71	130.76	3.05	2.8	91.8	0.10	3.6	4	0.04

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
130.76	133.20	2.44	2.08	85.2	0.00	0.0	4	0.10
133.20	134.72	1.52	0.84	55.3	0	0.0	4	0.05
134.72	137.77	3.05	2.8	91.8	2.6	92.9	4	0.09
137.77	140.82	3.05	2.51	82.3	2.33	92.8	4	0.10
140.82	142.34	1.52	1.62	106.6	1.51	93.2	4	0.08
142.34	145.39	3.05	2.94	96.4	2.69	91.5	4	0.08
145.39	148.44	3.05	3.01	98.7	2.93	97.3	4	0.16
148.44	151.49	3.05	2.94	96.4	2.82	95.9	4	0.01
151.49	154.53	3.04	3.04	100.0	2.88	94.7	4	0.10
154.53	157.58	3.05	3.01	98.7	2.46	81.7	4	0.20
157.58	160.63	3.05	3.00	98.4	2.7	90.0	4	0.25
160.63	163.68	3.05	2.97	97.4	2.7	90.9	4	0.13
163.68	166.73	3.05	3.04	99.7	2.71	89.1	4	0.13
166.73	169.77	3.04	3.01	99.0	2.59	86.0	4	0.08
169.77	172.82	3.05	2.99	98.0	2.71	90.6	4	0.11
172.82	175.87	3.05	3.03	99.3	2.78	91.7	4	0.16
175.87	178.92	3.05	2.94	96.4	2.75	93.5	4	0.18
178.92	181.97	3.05	2.97	97.4	2.83	95.3	4	0.22
181.97	185.01	3.04	3.02	99.3	2.92	96.7	4	0.83
185.01	188.06	3.05	2.98	97.7	2.98	100.0	4	0.28
188.06	191.11	3.05	3.05	100.0	3.05	100.0	4	0.35
191.11	194.16	3.05	2.90	95.1	2.84	97.9	4	0.23
194.16	197.21	3.05	3.05	100.0	2.71	88.9	4	0.23
197.21	200.25	3.04	3.05	100.3	2.59	84.9	4	39.00
200.25	203.30	3.05	2.63	86.2	2.51	95.4	4	
203.30	206.35	3.05	3.05	100.0	2.93	96.1	4	
206.35	209.4	3.05	2.83	92.8	2.75	97.2	4	
209.4	212.45	3.05	3.04	99.7	2.81	92.4	4	
212.45	215.49	3.04	2.82	92.8	2.30	81.6	4	
215.49	218.54	3.05	2.62	85.9	2.43	92.7	4	
218.54	221.59	3.05	2.96	97.0	2.54	85.8	4	
221.59	224.64	3.05	3.04	99.7	2.96	97.4	4	
224.64	227.69	3.05	3.00	98.4	2.97	99.0	4	
227.69	230.73	3.04	3.01	99.0	2.76	91.7	4	
230.73	233.78	3.05	3.00	98.4	2.58	86.0	4	
233.78	236.83	3.05	2.94	96.4	2.78	94.6	4	
236.83	239.88	3.05	2.87	94.1	2.54	88.5	4	
239.88	242.93	3.05	2.94	96.4	2.37	80.6	4	
242.93	245.97	3.04	3.05	100.3	2.80	91.8	4	
245.97	249.02	3.05	3.02	99.0	2.87	95.0	4	
249.02	252.07	3.05	2.82	92.5	2.61	92.6	4	
252.07	255.12	3.05	3.03	99.3	2.60	85.8	4	
255.12	258.17	3.05	2.98	97.7	2.49	83.6	4	
258.17	261.27	3.10	2.85	91.9	2.87	100.7	4	
261.27	264.26	2.99	3.00	100.3	1.47	49.0	4	
264.26	267.31	3.05	3.01	98.7	2.90	96.3	4	
267.31	270.36	3.05	3.03	99.3	2.60	85.8	4	
270.36	273.41	3.05	2.99	98.0	2.55	85.3	4	
273.41	276.45	3.04	3.03	99.7	2.41	79.5	4	
276.45	279.50	3.05	3.01	98.7	2.60	86.4	4	
279.50	282.55	3.05	3.05	100.0	2.74	89.8	4	
282.55	285.60	3.05	3.00	98.4	2.66	88.7	4	
285.60	288.65	3.05	2.95	96.7	2.73	92.5	4	
288.65	291.69	3.04	2.98	98.0	2.53	84.9	4	
291.69	294.74	3.05	2.90	95.1	2.42	83.4	4	
294.74	297.79	3.05	2.91	95.4	1.40	48.1	4	

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
297.79	300.84	3.05	3.03	99.3	2.92	96.4		4
300.84	303.89	3.05	2.99	98.0	1.31	43.8		4
303.89	306.93	3.04	2.94	96.7	2.27	77.2		4
306.93	309.98	3.05	2.93	96.1	1.99	67.9		4
309.98	313.03	3.05	2.97	97.4	2.05	69.0		4
313.03	316.08	3.05	2.94	96.4	2.32	78.9		4
316.08	319.13	3.05	2.89	94.8	2.44	84.4		4
319.13	322.17	3.04	3.03	99.7	2.39	78.9		4
322.17	325.22	3.05	2.8	91.8	2.49	88.9		4
325.22	328.27	3.05	2.95	96.7	2.60	88.1		4
328.27	331.32	3.05	3.16	103.6	2.46	77.8		4
331.32	334.37	3.05	3.15	103.3	2.30	73.0		4
334.37	337.41	3.04	2.93	96.4	2.43	82.9		4
337.41	340.46	3.05	3.00	98.4	1.82	60.7		4
340.46	343.51	3.05	2.89	94.8	2.34	81.0		4
343.51	346.56	3.05	2.96	97.0	2.61	88.2		4
346.56	349.61	3.05	2.99	98.0	3.02	101.0		4
349.61	352.65	3.04	3.00	98.7	2.9	96.7		4
352.65	354.79	2.14	2.37	110.7	1.73	73.0		4
354.79	358.75	3.96	3.50	88.4	1.18	33.7		3
358.75	361.80	3.05	2.34	76.7	0.93	39.7		4
361.80	363.63	1.83	0.57	31.1	0.12	21.1		3
363.63	364.85	1.22	0.72	59.0	0.00	0.0		3
364.85	367.59	2.74	1.91	69.7	0.60	31.4		3
367.59	370.94	3.35	2.73	81.5	1.17	42.9		4
370.94	373.99	3.05	2.56	83.9	1.51	59.0		4
373.99	378.87	4.88	3.61	74.0	0.97	26.9		4
378.87	380.39	1.52	1.50	98.7	0.10	6.7		4
380.39	382.22	1.83	1.22	66.7	0.15	12.3		4
382.22	384.05	1.83		0.0				4
384.05	385.57	1.52	1.30	85.5	0.00	0.0		4
385.57	386.18	0.61	0.40	65.6	0.00	0.0		4
386.18	388.32	2.14	1.95	91.1	0.56	28.7		4
388.32	389.23	0.91	1.09	120.1	0.52	47.6		4
389.23	392.28	3.05	2.52	82.6	0.84	33.3		4.5
392.28	393.8	1.52	1.24	81.6	0.37	29.8		4.5
393.8	395.33	1.53	1.28	83.7	1.02	79.7		5
395.33	398.37	3.04	3.01	99.1	2.41	80.0		5
398.37	401.42	3.05	3.05	100.0	2.35	77.0		6
401.42	404.47	3.05	3.04	99.7	1.91	62.8		5
404.47	407.52	3.05	2.96	97.0	1.59	53.7		5
407.52	410.57	3.05	3.23	105.9	1.52	47.1		6
410.57	413.61	3.04	2.93	96.4	1.66	56.7		6
413.61	416.66	3.05	3.08	101.0	1.42	46.1		5
416.66	419.71	3.05	2.86	93.8	2.30	80.4		5
419.71	422.76	3.05	3.02	99.0	2.53	83.8		5
422.76	425.81	3.05	2.92	95.7	1.63	55.8		5
425.81	428.85	3.04	2.95	97.0	1.97	66.8		5
428.85	431.9	3.05	2.99	98.0	1.77	59.2		5
431.9	434.95	3.05	3	98.4	2.62	87.3		5
434.95	438	3.05	3	98.4	2.07	69.0		5
438.00	441.05	3.05	2.94	96.4	1.48	50.3		4
441.05	444.09	3.04	2.89	95.1	2.55	88.2		4
444.09	447.14	3.05	2.99	98.0	2.47	82.6		4
447.14	450.19	3.05	2.92	95.7	2.48	84.9		4.5
450.19	456.29	6.10	6.07	99.5	3.72	61.3		6

Interval (m)			Recovery		RQD		HARDNESS	Mag
From	To	Length	Meters	%	Meters	%		Scp.
456.29	462.38	6.09	5.92	97.2	3.49	59.0	5	
462.38	468.48	6.10	5.74	94.1	4.14	72.1	4.5	
468.48	474.57	6.09	5.96	97.9	3.32	55.7	5	
474.57	480.67	6.10	6.17	101.1	3.85	62.4	6	
480.67	486.77	6.10	6.05	99.2	3.57	59.0	5	
486.77	492.86	6.09	5.97	98.0	4.49	75.2	6	
492.86	498.96	6.10	5.79	94.9	4.23	73.1	5	
498.96	505.05	6.09	5.85	96.1	2.17	37.1	4	
505.05	508.1	3.05	2.94	96.4	1.33	45.2	4.5	
508.10	511.15	3.05	2.99	98.0	1.95	65.2	5	
511.15	514.2	3.05	3.01	98.7	2.29	76.1	4	
514.20	517.25	3.05	3.01	98.7	1.43	47.5	5	
517.25	520.29	3.04	2.8	92.1	0.82	29.3	4	
520.29	523.34	3.05	3.16	103.6	1.44	45.6	4	
523.34	526.39	3.05	3.05	100.0	1.35	44.3	4.5	
526.39	529.44	3.05	3.06	100.3	1.70	55.6	4	
529.44	532.49	3.05	3.09	101.3	1.17	37.9	4.5	
532.49	535.23	2.74	2.75	100.4	1.53	55.6	4	
535.23	538.58	3.35	3.1	92.5	1.71	55.2	4	
538.58	541.63	3.05	3.12	102.3	1.80	57.7	4	
541.63	544.68	3.05	3.05	100.0	1.33	43.6	4	
544.68	547.73	3.05	2.79	91.5	1.82	65.2	4	
547.73	550.77	3.04	3.02	99.3	1.67	55.3	4	
550.77	553.82	3.05	2.94	96.4	1.64	55.8	4	
553.82	556.87	3.05	3.07	100.7	2.29	74.6	4	
556.87	559.92	3.05	2.96	97.0	2.20	74.3	4	
559.92	562.97	3.05	2.94	96.4	1.14	38.8	5	
562.97	566.01	3.04	2.91	95.7	1.21	41.6	5	
566.01	569.06	3.05	2.95	96.7	1.62	54.9	5	
569.06	572.11	3.05	3.06	100.3	1.05	34.3	4	
572.11	578.21	6.10	5.66	92.8	3.30	58.3	3.5	

E.O.H.

Date: June 29/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-10

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	17.37	17.37	CSG				
17.37	21.93	4.56	2.7	59.2	0.60	22.2	3
21.93	24.99	3.06	2.86	93.5	0.53	18.5	3
24.99	28.04	3.05	2.57	84.3	0.76	29.6	3
28.04	31.09	3.05	2.30	75.4	0.69	30.0	3
31.09	34.14	3.05	2.88	94.4	0.63	21.9	3
34.14	37.19	3.05	2.56	83.9	0.78	30.5	3
37.19	40.23	3.04	2.74	90.1	0.59	21.5	3
40.23	43.28	3.05	2.64	86.6	0.55	20.8	3
43.28	46.33	3.05	2.74	89.8	0.62	22.6	3
46.33	49.38	3.05	2.46	80.7	1.24	50.4	3
49.38	52.46	3.08	2.80	90.9	2.15	76.8	3
52.46	55.47	3.01	2.95	98.0	2.00	67.8	3
55.47	58.52	3.05	2.78	91.1	1.88	67.6	3
58.52	60.96	2.44	2.26	92.6	1.63	72.1	3
60.96	63.09	2.13	1.55	72.8	0.81	52.3	3
63.09	66.14	3.05	2.94	96.4	1.67	56.8	3
66.14	69.19	3.05	2.9	95.1	1.82	62.8	3
69.19	72.24	3.05	2.85	93.4	1.74	61.1	3
72.24	75.29	3.05	2.81	92.1	1.54	54.8	4
75.29	78.33	3.04	2.84	93.4	1.38	48.6	4
78.33	81.38	3.05	2.84	93.1	2.05	72.2	4
81.38	84.43	3.05	2.73	89.5	2.00	73.3	4
84.43	87.48	3.05	2.9	95.1	2.26	77.9	3
87.48	90.33	2.85	2.79	97.9	1.96	70.3	3
90.33	93.57	3.24	3.02	93.2	1.91	63.2	4
93.57	96.62	3.05	3.03	99.3	2.22	73.3	4
96.62	99.67	3.05	2.77	90.8	1.88	67.9	4
99.67	102.72	3.05	2.84	93.1	2.32	81.7	3
102.72	105.77	3.05	2.80	91.8	1.04	37.1	3
105.77	108.81	3.04	2.60	85.5	1.47	56.5	4
108.81	111.86	3.05	2.44	80.0	0.33	13.5	4
111.86	114.91	3.05	2.74	89.8	2.32	84.7	4
114.91	117.96	3.05	2.89	94.8	2.15	74.4	4
117.96	121.01	3.05	2.74	89.8	1.34	48.9	3
121.01	124.05	3.04	2.68	88.2	1.12	41.8	3
124.05	127.10	3.05	2.55	83.6	0.93	36.5	4
127.10	130.15	3.05	2.91	95.4	1.58	54.3	4
130.15	133.20	3.05	2.89	94.8	1.46	50.5	4
133.20	136.25	3.05	2.65	86.9	1.26	47.5	4
136.25	139.29	3.04	2.77	91.1	1.28	46.2	4
139.29	142.34	3.05	2.76	90.5	1.36	49.3	4
142.34	145.39	3.05	2.92	95.7	1.51	51.7	4
145.39	148.44	3.05	2.82	92.5	1.12	39.7	4
148.44	151.49	3.05	2.76	90.5	1.09	39.5	4
151.49	154.33	2.84	2.75	96.8	1.29	46.9	4
154.33	157.58	3.25	2.82	86.8	0.71	25.2	4
157.58	160.63	3.05	2.72	89.2	1.64	60.3	4
160.63	163.68	3.05	2.83	92.8	1.82	64.3	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
163.68	166.73	3.05	2.79	91.5	1.33	47.7	4
166.73	169.77	3.04	2.85	93.7	0.73	25.6	4
169.77	172.82	3.05	2.85	93.4	1.55	54.4	4
172.82	175.85	3.03	2.9	95.7	1.55	53.4	4
175.85	178.92	3.07	2.62	85.3	1.28	48.9	3
178.92	181.97	3.05	3.03	99.3	1.97	65.0	4
181.97	185.01	3.04	2.98	98.0	2.36	79.2	4
185.01	188.06	3.05	2.86	93.8	1.54	53.8	4
188.06	191.11	3.05	2.87	94.1	2.03	70.7	4
191.11	194.16	3.05	2.99	98.0	2.09	69.9	4
194.16	197.21	3.05	2.66	87.2	1.67	62.8	3
197.21	200.25	3.04	2.88	94.7	1.87	64.9	4
200.25	203.30	3.05	2.76	90.5	1.9	68.8	4
203.30	206.35	3.05	2.95	96.7	1.97	66.8	4
206.35	209.40	3.05	2.85	93.4	1.31	46.0	3
209.40	212.45	3.05	2.93	96.1	1.34	45.7	3
212.45	215.49	3.04	2.86	94.1	0.69	24.1	3
215.49	218.54	3.05	3.03	99.3	1.57	51.8	4
218.54	221.59	3.05	3.04	99.7	0.64	21.1	3
221.59	224.64	3.05	2.66	87.2	1.07	40.2	3
224.64	227.69	3.05	2.67	87.5	0.89	33.3	4
227.69	230.73	3.04	2.95	97.0	1.74	59.0	4
230.73	233.78	3.05	2.85	93.4	2.03	71.2	4
233.78	236.83	3.05	2.90	95.1	1.7	58.6	4
236.83	239.88	3.05					4
239.88	242.93	3.05	2.95	96.7	2.26	76.6	4
242.93	245.97	3.04	3.02	99.3	1.91	63.2	4
245.97	249.02	3.05	3.05	100.0	2.24	73.4	4
249.02	252.07	3.05	2.99	98.0	2.06	68.9	4
252.07	255.12	3.05	2.95	96.7	2.03	68.8	4
255.12	258.17	3.05	2.94	96.4	1.82	61.9	4
258.17	261.21	3.04	2.97	97.7	2.29	77.1	4
261.21	264.26	3.05	2.91	95.4	2.36	81.1	4
264.26	267.31	3.05	2.96	97.0	2.06	69.6	4
267.31	270.36	3.05	2.96	97.0	2.22	75.0	4
270.36	273.41	3.05	2.87	94.1		0.0	4
273.41	276.45	3.04	2.91	95.7	2.07	71.1	4
276.45	279.50	3.05	2.92	95.7	1.63	55.8	4
279.50	282.55	3.05	2.85	93.4	2.09	73.3	4
282.55	285.60	3.05	2.88	94.4	1.77	61.5	4
285.60	288.65	3.05	1.28	42.0	0.70	54.7	3
288.65	291.65	3.00	3.00	100.0	2.32	77.3	4
291.65	294.74	3.09	2.98	96.4	1.86	62.4	4
294.74	297.79	3.05	2.98	97.7	1.13	37.9	4
297.79	300.84	3.05	2.99	98.0	1.93	64.5	3
300.84	303.89	3.05	2.95	96.7	1.30	44.1	4
303.89	306.93	3.04	2.76	90.8	2.20	79.7	4
306.93	309.98	3.05	3.03	99.3	1.31	43.2	4
309.98	313.03	3.05	2.92	95.7	1.15	39.4	4
313.03	316.08	3.05	2.99	98.0	1.84	61.5	4
316.08	319.13	3.05	2.93	96.1	0.41	14.0	4
319.13	322.17	3.04	2.84	93.4	0.52	18.3	4
322.17	325.22	3.05	3.03	99.3	1.07	35.3	4
325.22	328.27	3.05	2.94	96.4	1.11	37.8	4
328.27	331.32	3.05	2.76	90.5	0.44	15.9	4
331.32	332.23	0.91	1.00	109.9	0.47	47.0	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
332.23	334.37	2.14	1.93	90.2	1.40	72.5	3
334.37	337.41	3.04	2.97	97.7	1.73	58.2	3
337.41	340.46	3.05	2.79	91.5	1.35	48.4	3
340.46	343.51	3.05	2.95	96.7	1.83	62.0	3
343.51	346.56	3.05	3	98.4	2.06	68.7	2
346.56	349.61	3.05	3.03	99.3	2.10	69.3	3
349.61	352.65	3.04	2.89	95.1	1.72	59.5	3
352.65	355.70	3.05	3.02	99.0	2.04	67.5	3
355.70	358.75	3.05	2.95	96.7	2.50	84.7	3
358.75	361.80	3.05	3.04	99.7	2.12	69.7	3
361.80	364.85	3.05	3	98.4	2.32	77.3	3
364.85	367.89	3.04	2.93	96.4	2.39	81.6	3
367.89	370.94	3.05	3.04	99.7	2.02	66.4	3
370.94	373.99	3.05	2.97	97.4	2.49	83.8	3
373.99	377.04	3.05	2.98	97.7	2.74	91.9	3
377.04	380.09	3.05	2.96	97.0	2.85	96.3	3
380.09	383.13	3.04	2.92	96.1	1.85	63.4	3
383.13	386.18	3.05	3.00	98.4	1.92	64.0	3
386.18	389.23	3.05	2.99	98.0	2.26	75.6	4
389.23	392.28	3.05	2.92	95.7	2.38	81.5	4
392.28	395.33	3.05	3.01	98.7	2.28	75.7	4
395.33	398.37	3.04	2.94	96.7	2.30	78.2	4
398.37	401.42	3.05	2.97	97.4	2.40	80.8	4
401.42	404.47	3.05	2.98	97.7	2.18	73.2	4
404.47	407.52	3.05	3.01	98.7	2.27	75.4	4
407.52	410.57	3.05	3.02	99.0	2.39	79.1	4
410.57	413.61	3.04	3.00	98.7	1.90	63.3	4
413.61	416.66	3.05	3.03	99.3	2.28	75.2	4
416.66	419.71	3.05	3.05	100.0	2.36	77.4	4
419.71	422.76	3.05	3.03	99.3	2.58	85.1	4
422.76	425.81	3.05	3.04	99.7	2.18	71.7	4
425.81	428.85	3.04	2.98	98.0	1.98	66.4	4
428.85	431.9	3.05	3.03	99.3	2.52	83.2	4
431.90	434.95	3.05	2.96	97.0	2.02	68.2	4
434.95	438	3.05	3.05	100.0	1.28	42.0	3
438.00	441.05	3.05	2.97	97.4	1.94	65.3	3
441.05	444.09	3.04	2.99	98.4	2.12	70.9	3
444.09	447.14	3.05	2.92	95.7	1.88	64.4	3
447.14	450.19	3.05	2.97	97.4	2.10	70.7	3
450.19	453.24	3.05	3.00	98.4	2.42	80.7	3
453.24	456.29	3.05	2.96	97.0	2.16	73.0	3
456.29	459.33	3.04	2.93	96.4	2.34	79.9	3
459.33	462.38	3.05	3.05	100.0	2.60	85.2	3
462.38	465.43	3.05	2.89	94.8	2.32	80.3	3
465.43	468.48	3.05	3.03	99.3	2.12	70.0	3
468.48	471.53	3.05	2.98	97.7	2.44	81.9	3
471.53	474.57	3.04	2.99	98.4	2.25	75.3	3
474.57	477.62	3.05	3.03	99.3	2.81	92.7	3.5
477.62	480.67	3.05	2.95	96.7	2.31	78.3	3
480.67	483.72	3.05	2.92	95.7	2.54	87.0	3
483.72	486.77	3.05	2.87	94.1	2.40	83.6	6
486.77	489.81	3.04	2.86	94.1	1.76	61.5	4
489.81	492.86	3.05	3.04	99.7	2.19	72.0	3.5
492.86	495.91	3.05	2.91	95.4	1.23	42.3	3
495.91	498.96	3.05	3.05	100.0	1.51	49.5	5
498.96	502.01	3.05	2.92	95.7	2.27	77.7	6

Date: July 9/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-11

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	1.52	1.52	0.93	61.2	0.21	22.6	4
1.52	3.05	1.53	1.49	97.4	0.41	27.5	4
3.05	4.57	1.52	1.38	90.8	0.55	39.9	3.5
4.57	6.10	1.53	1.67	109.2	0.17	10.2	3
6.10	7.62	1.52	1.23	80.9	0.15	12.2	3
7.62	9.14	1.52	1.45	95.4	0.21	14.5	3
9.14	10.67	1.53	0.55	35.9	0.00	0.0	3
10.67	12.19	1.52	0.68	44.7	0.00	0.0	3
12.19	13.72	1.53	1.08	70.6	0.11	10.2	3
13.72	15.24	1.52	1.10	72.4	0.13	11.8	3
15.24	16.76	1.52	1.03	67.8	0.00	0.0	3
16.76	18.29	1.53	1.04	68.0	0.10	9.6	3
18.29	19.81	1.52	1.03	67.8	0.00	0.0	3
19.81	21.34	1.53	1.18	77.1	0.11	9.3	3
21.34	24.38	3.04	1.47	48.4	0.10	6.8	3
24.38	25.91	1.53	0.65	42.5	0.00	0.0	3
25.91	27.43	1.52	1.05	69.1	0.21	20.0	3
27.43	28.96	1.53	0.8	52.3	0.00	0.0	3
28.96	30.45	1.49	0.22	14.8	0.00	0.0	3
30.45	32.60	2.15	0.65	30.2	0.12	18.5	3
32.60	33.53	0.93	0.84	90.3	0.00	0.0	4
33.53	35.05	1.52	1.24	81.6	0.67	54.0	4
35.05	36.58	1.53	1.15	75.2	0.41	35.7	4
36.58	39.62	3.04	1.43	47.0	0.11	7.7	4
39.62	41.15	1.53	0.92	60.1	0.25	27.2	3.5
41.15	42.67	1.52	1.33	87.5	0.00	0.0	4
42.67	44.20	1.53	1.57	102.6	0.34	21.7	4
44.20	45.72	1.52	1.43	94.1	0.00	0.0	4
45.72	47.24	1.52	1.60	105.3	0.39	24.4	4
47.24	48.77	1.53	1.51	98.7	0.00	0.0	4
48.77	50.29	1.52	1.10	72.4	0.00	0.0	4
50.29	51.82	1.53	0.58	37.9	0.29	50.0	3
51.82	53.34	1.52	0.62	40.8	0.16	25.8	3
53.34	54.86	1.52	0.90	59.2	0.51	56.7	3
54.86	56.39	1.53	1.13	73.9	0.11	9.7	4
56.39	57.91	1.52	1.62	106.6	0.28	17.3	3
57.91	59.44	1.53	1.36	88.9	0.85	62.5	3
59.44	60.95	1.51	1.47	97.4	0.00	0.0	4
60.95	62.48	1.53	1.24	81.0	0.37	29.8	4
62.48	64.10	1.62	1.39	85.8	0.45	32.4	4
64.10	65.53	1.43	1.22	85.3	0.61	50.0	3
65.53	67.09	1.56	1.29	82.7	0.33	25.6	4
67.09	68.58	1.49	1.35	90.6	0.12	8.9	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
68.58	70.10	1.52	1.45	95.4	0.28	19.3	4
70.10	71.63	1.53	1.09	71.2	0.17	15.6	4
71.63	73.15	1.52	1.16	76.3	0.21	18.1	4
73.15	76.20	3.05	1.73	56.7	0.45	26.0	4
76.20	79.25	3.05	2.45	80.3	0.48	19.6	4
79.25	82.30	3.05	2.72	89.2	1.83	67.3	4
82.30	85.34	3.04	2.37	78.0	0.75	31.6	4
85.34	88.39	3.05	2.8	91.8	1.12	40.0	4
88.39	91.44	3.05	2.02	66.2	0.54	26.7	4
91.44	94.49	3.05	2.35	77.0	0.52	22.1	4
94.49	97.54	3.05	2.54	83.3	1.15	45.3	4
97.54	100.58	3.04	2.75	90.5	1.34	48.7	4
100.58	103.63	3.05	2.84	93.1	0.82	28.9	4
103.63	106.68	3.05	2.68	87.9	0.95	35.4	4
106.68	109.73	3.05	2.72	89.2	0.71	26.1	4
109.73	112.78	3.05	3.05	100.0	1.4	45.9	4
112.78	115.82	3.04	2.42	79.6	0.8	33.1	4
115.82	118.87	3.05	2.70	88.5	1.68	62.2	4
118.87	121.92	3.05	2.66	87.2	1.58	59.4	4
121.92	124.97	3.05	2.84	93.1	1.25	44.0	4
124.97	128.02	3.05	2.98	97.7	0.96	32.2	4
128.02	131.06	3.04	2.49	81.9	0.33	13.3	4
131.06	134.11	3.05	2.31	75.7	0.29	12.6	4
134.11	137.16	3.05	3.01	98.7	1.03	34.2	4
137.16	140.21	3.05	3.00	98.4	2.15	71.7	4
140.21	143.26	3.05	2.79	91.5	1.62	58.1	4
143.26	146.30	3.04	2.47	81.2	0.9	36.4	4
146.30	149.35	3.05	2.47	81.0	0.46	18.6	4
149.35	152.40	3.05	2.63	86.2	0.92	35.0	3
152.40	155.45	3.05	2.50	82.0	0.5	20.0	4
155.45	158.50	3.05	2.64	86.6	0.68	25.8	4
158.50	161.54	3.04	2.53	83.2	2.36	93.3	3
161.54	164.59	3.05	2.63	86.2	1.07	40.7	4
164.59	167.64	3.05	2.74	89.8	0.56	20.4	3
167.64	170.69	3.05	2.61	85.6	0.36	13.8	4
170.69	173.74	3.05	2.64	86.6	0.55	20.8	4
173.74	176.78	3.04	2.34	77.0	0.27	11.5	4
176.78	179.83	3.05	2.87	94.1	0.32	11.1	4
179.83	182.88	3.05	2.77	90.8	0.59	21.3	4
182.88	185.93	3.05	2.56	83.9	0.70	27.3	4
185.93	188.98	3.05	2.61	85.6	0.34	13.0	4
188.98	192.02	3.04	2.61	85.9	0.41	15.7	4
192.02	195.07	3.05	2.34	76.7	0.45	19.2	4
195.07	198.12	3.05	2.50	82.0	0.27	10.8	4
198.12	201.17	3.05	2.57	84.3	1.14	44.4	4
201.17	204.22	3.05	2.49	81.6	0.58	23.3	4
204.22	207.26	3.04	2.47	81.3	0.27	10.9	4
207.26	210.31	3.05	2.16	70.8	0.25	11.6	7
210.31	213.36	3.05	2.37	77.7	0.54	22.8	7
213.36	216.41	3.05	2.14	70.2	0.26	12.1	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
216.41	219.46	3.05	2.59	84.9	0.54	20.8	4
219.46	222.50	3.04	2.50	82.2	0.97	38.8	4
222.50	225.55	3.05	2.57	84.3	0.47	18.3	4
225.55	228.60	3.05	2.55	83.6	1.32	51.8	4
228.60	231.65	3.05	2.75	90.2	0.85	30.9	4
231.65	234.70	3.05	2.76	90.5	1.65	59.8	4
234.70	237.74	3.04	2.84	93.4	0.63	22.2	4
237.74	240.79	3.05	2.81	92.1	1.71	60.9	4
240.79	243.84	3.05	2.88	94.4	1.27	44.1	4
243.84	246.89	3.05	2.80	91.8	0.67	23.9	4
246.89	249.94	3.05	2.85	93.4	1.05	36.8	4
249.94	252.98	3.04	2.68	88.2	0.78	29.1	4
252.98	256.03	3.05	2.85	93.4	1.68	58.9	4
256.03	259.08	3.05	2.86	93.8	0.94	32.9	4
259.08	262.13	3.05	2.88	94.4	1.10	38.2	4
262.13	265.18	3.05	2.91	95.4	0.20	6.9	4
265.18	268.22	3.04	2.74	90.1	0.84	30.7	4
268.22	271.27	3.05	2.69	88.2	0.24	8.9	5
271.27	274.32	3.05	3.05	100.0	0.99	32.5	5
274.32	277.37	3.05	2.84	93.1	0.69	24.3	5
277.37	280.42	3.05	2.96	97.0	1.39	47.0	5
280.42	283.46	3.04	2.87	94.4	0.70	24.4	5
283.46	286.51	3.05	2.98	97.7	1.50	50.3	5
286.51	289.56	3.05	2.98	97.7	1.16	38.9	4
289.56	292.61	3.05	2.73	89.5	0.26	9.5	4
292.61	295.66	3.05	2.76	90.5	1.22	44.2	4
295.66	298.70	3.04	2.54	83.6	0.86	33.9	4
298.70	301.75	3.05	2.59	84.9	0.62	23.9	4
301.75	304.80	3.05	2.80	91.8	0.84	30.0	4
304.80	307.85	3.05	2.80	91.8	1.73	61.8	4
307.85	310.90	3.05	3.05	100.0	1.52	49.8	5
310.90	313.94	3.04	2.94	96.7	1.53	52.0	5
313.94	316.99	3.05	2.85	93.4	1.25	43.9	4
316.99	320.04	3.05	2.99	98.0	1.29	43.1	4
320.04	323.09	3.05	2.89	94.8	1.52	52.6	4
323.09	326.14	3.05	2.80	91.8	0.94	33.6	4
326.14	329.18	3.04	3.02	99.3	1.57	52.0	4
329.18	332.23	3.05	2.81	92.1	1.06	37.7	4
332.23	335.28	3.05	2.93	96.1	1.32	45.1	4
335.28	338.33	3.05	2.98	97.7	2.22	74.5	4
338.33	341.38	3.05	2.89	94.8	1.17	40.5	4
341.38	344.42	3.04	2.93	96.4	1.82	62.1	5
344.42	347.47	3.05	2.91	95.4	0.98	33.7	4
347.47	350.52	3.05	2.97	97.4	1.53	51.5	4
350.52	353.57	3.05	2.98	97.7	1.47	49.3	4
353.57	356.62	3.05	3.04	99.7	1.76	57.9	4
356.62	359.66	3.04	3.03	99.7	2.64	87.1	4
359.66	362.71	3.05	3.02	99.0	2.27	75.2	4
362.71	365.76	3.05	2.91	95.4	2.39	82.1	4
365.76	368.81	3.05	2.96	97.0	2.11	71.3	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
368.81	371.86	3.05	3.03	99.3	2.17	71.6	4
371.86	374.90	3.04	2.99	98.4	1.77	59.2	4
374.90	377.95	3.05	3.02	99.0	1.81	59.9	4
377.95	381.00	3.05	2.96	97.0	1.78	60.1	5
381.00	384.05	3.05	3.02	99.0	2.22	73.5	4
384.05	387.10	3.05	3.05	100.0	1.86	61.0	4
387.10	390.14	3.04	3.14	103.3	2.32	73.9	4
390.14	393.19	3.05	3.00	98.4	0.93	31.0	4
393.19	396.24	3.05	3.10	101.6	1.75	56.5	4
396.24	399.29	3.05	3.08	101.0	1.19	38.6	3
399.29	402.34	3.05	3.11	102.0	1.41	45.3	4
402.34	405.38	3.04	2.89	95.1	1.15	39.8	4
405.38	408.43	3.05	3.25	106.6	0.35	10.8	4
408.43	411.48	3.05	3.06	100.3	1.07	35.0	4
411.48	414.53	3.05	3.05	100.0	0.65	21.3	4
414.53	417.58	3.05	3.03	99.3	1.80	59.4	4
417.58	420.62	3.04	3.01	99.0	1.70	56.5	4
420.62	423.67	3.05	2.94	96.4	1.35	45.9	4
423.67	426.72	3.05	2.92	95.7	2.52	86.3	4
426.72	429.77	3.05	3.1	101.6	2.17	70.0	4
429.77	432.82	3.05	2.94	96.4	2.27	77.2	4
432.82	435.86	3.04	3.08	101.3	1.31	42.5	4
435.86	438.91	3.05	2.98	97.7	1.33	44.6	3
438.91	441.96	3.05	3.01	98.7	2.20	73.1	4
441.96	445.01	3.05	3.04	99.7	1.83	60.2	4
445.01	448.06	3.05	3.15	103.3	1.60	50.8	4
448.06	451.10	3.04	3.06	100.7	1.24	40.5	4
451.10	454.15	3.05	2.86	93.8	1.61	56.3	4
454.15	457.20	3.05	3.05	100.0	2.23	73.1	4
457.20	460.25	3.05	2.98	97.7	0.51	17.1	3
460.25	463.30	3.05	3.03	99.3	1.80	59.4	4
463.30	466.34	3.04	3.03	99.7	1.60	52.8	4
466.34	469.39	3.05	3.05	100.0	0.81	26.6	5
469.39	472.44	3.05	3.08	101.0	1.42	46.1	5
472.44	475.49	3.05	3.06	100.3	1.50	49.0	5
475.49	478.54	3.05	3.02	99.0	1.54	51.0	5
478.54	481.58	3.04	3.03	99.7	0.24	7.9	4
481.58	484.63	3.05	2.99	98.0	1.15	38.5	4
484.63	487.68	3.05	3.04	99.7	0.46	15.1	4
487.68	490.73	3.05	2.88	94.4	1.77	61.5	4
490.73	493.78	3.05	3.05	100.0	0.36	11.8	4
493.78	496.82	3.04	2.92	96.1	0.66	22.6	4
E.O.H.							

Date: June 14/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-12

INTERVAL (M)			RECOVERY		RQD		HARD
From	To	Length	Meters	%	Meters	%	
4.57	6.10	1.53	1.30	84.97	0.14	10.77	3
6.10	6.71	0.61	0.70	114.75	0.00	0.00	3
6.71	8.23	1.52	1.56	102.63	0.24	15.38	3
8.23	9.75	1.52	1.38	90.79	0.21	15.22	3
9.75	11.28	1.53	1.57	102.55	0.49	31.21	2.5
11.28	12.80	1.52	1.29	84.92	0.60	46.51	3
12.80	15.85	3.05	2.75	90.16	1.57	57.09	3
15.85	18.90	3.05	2.81	92.13	0.83	29.54	3
18.90	21.95	3.05	2.49	81.64	0.75	30.12	3
21.95	24.99	3.04	2.81	92.43	0.35	12.46	3
24.99	28.09	3.10	3.14	101.29	0.74	23.57	3
28.09	31.09	3.00	2.95	98.33	0.79	26.78	4
31.09	34.14	3.05	3.05	100.00	1.97	64.59	4
34.14	37.19	3.05	2.77	90.82	1.46	52.71	3
37.19	40.23	3.04	3.04	100.00	1.98	65.13	3
40.23	43.28	3.05	2.97	97.38	1.97	66.33	3
43.28	44.81	1.53	1.58	103.27	0.93	58.86	3
44.81	46.33	1.52	1.49	98.03	0.78	52.35	3
46.33	47.85	1.52	1.55	101.97	0.84	54.19	4
47.85	49.38	1.53	1.44	94.12	1.13	78.47	3
49.38	50.90	1.52	1.57	103.29	0.78	49.68	3
50.90	52.43	1.53	1.45	94.77	1.38	95.17	3
52.43	53.95	1.52	1.62	106.58	0.55	33.95	3
53.95	55.47	1.52	1.31	86.18	0.93	70.99	3
55.47	57.00	1.53	1.58	103.27	0.96	60.76	3
57.00	58.52	1.52	1.47	96.71	1.18	80.27	3
58.52	60.05	1.53	1.50	98.04	1.41	94.00	3
60.05	61.57	1.52	1.38	90.79	1.14	82.61	3
61.57	63.09	1.52	1.41	92.76	0.93	65.96	3
63.09	64.62	1.53	1.38	90.20	0.75	54.35	3
64.62	66.14	1.52	1.44	94.74	1.19	82.64	3
66.14	67.67	1.53	1.49	97.39	1.08	72.48	3
67.67	69.19	1.52	1.30	85.53	0.71	54.62	3
69.19	70.10	0.91	0.64	70.33	0.30	46.88	3
70.10	72.24	2.14	2.22	103.74	1.26	56.76	3
72.24	75.29	3.05	3.04	99.67	1.72	56.58	3
75.29	78.33	3.04	2.87	94.41	2.09	72.82	3
78.33	81.38	3.05	2.92	95.74	1.08	36.99	3
81.38	84.43	3.05	2.87	94.10	1.75	60.98	4
84.43	87.48	3.05	2.43	79.67	0.44	18.11	4
87.48	90.53	3.05	3.02	99.02	0.79	26.16	4
90.53	93.57	3.04	2.92	96.05	1.41	48.29	4
93.57	96.62	3.05	2.83	92.79	1.65	58.30	4
96.62	99.67	3.05	2.96	97.05	1.36	45.95	4
99.67	102.72	3.05	3.06	100.33	1.67	54.58	4
102.72	105.77	3.05	3.02	99.02	1.56	51.66	4
105.77	108.81	3.04	2.96	97.37	1.28	43.24	4
108.81	111.86	3.05	2.88	94.43	1.85	64.24	4
111.86	114.91	3.05	3.01	98.69	2.24	74.42	4

INTERVAL (M)			RECOVERY		RQD		HARD
From	To	Length	Meters	%	Meters	%	
114.91	117.96	3.05	2.98	97.70	1.55	52.01	4
117.96	121.01	3.05	2.79	91.48	0.90	32.26	3
121.01	124.05	3.04	2.91	95.72	2.20	75.60	3
124.05	127.10	3.05	2.88	94.43	1.75	60.76	3
127.10	130.15	3.05	2.86	93.77	1.81	63.29	3
130.15	133.20	3.05	2.93	96.07	1.36	46.42	3
133.20	136.25	3.05	2.81	94.75	1.00	35.59	3
136.25	139.29	3.04	2.95	94.74	1.42	48.14	3
139.29	142.34	3.05	2.87	89.18	0.98	34.15	3
142.34	145.39	3.05	2.82	91.80	0.68	24.11	3
145.39	148.44	3.05	2.75	95.08	1.28	46.55	3
148.44	151.49	3.05	2.86	95.41	1.74	60.84	3
151.49	154.53	3.04	2.93	100.33	2.50	85.32	3
154.53	157.58	3.05	2.89	98.03	1.60	55.36	3
157.58	160.63	3.05	2.88	99.67	1.65	57.29	3
160.63	163.68	3.05	2.72	96.39	0.39	14.34	3
163.68	166.73	3.05	2.80	91.80	0.77	27.50	3
166.73	169.77	3.04	2.90	95.39	1.43	49.31	4
169.77	172.82	3.05	2.91	95.41	1.48	50.86	2
172.82	175.87	3.05	3.05	100.00	2.24	73.44	3
175.87	178.92	3.05	2.99	98.03	1.67	55.85	2
178.92	181.97	3.05	3.04	99.67	1.92	63.16	3
181.97	185.01	3.04	2.94	96.71	1.94	65.99	3
185.01	189.01	4.00	1.84	46.00	1.09	59.24	3
189.89	191.11	1.22	1.01	82.79	0.59	58.42	3
191.11	194.16	3.05	3.04	99.67	1.22	40.13	3
194.16	197.21	3.05	2.98	97.70	1.52	51.01	3
197.21	200.25	3.04	2.52	82.89	0.69	27.38	3
200.25	203.30	3.05	2.98	97.70	1.02	34.23	3
203.30	206.35	3.05	2.82	92.46	0.97	34.40	3
206.35	209.40	3.05	3.09	101.31	1.35	43.69	3
209.40	212.45	3.05	2.79	91.48	1.51	54.12	3
212.45	215.49	3.04	3.05	100.33	2.41	79.02	3
215.49	218.54	3.05	2.98	97.70	0.72	24.16	3
218.54	221.59	3.05	2.84	93.11	1.42	50.00	3
221.59	224.64	3.05	2.94	96.39	1.34	45.58	3
224.64	227.69	3.05	3.01	98.69	1.67	55.48	3
227.69	230.23	2.54	2.83	111.42	1.36	48.06	3
230.23	233.78	3.55	3.10	87.32	1.69	54.52	3
233.78	236.83	3.05	2.84	93.11	1.21	42.61	3
236.83	239.88	3.05	3.02	99.02	2.05	67.88	3
239.88	242.93	3.05	2.75	90.16	1.40	50.91	4
242.93	245.97	3.04	2.90	95.39	1.64	56.55	4
245.97	249.02	3.05	2.97	97.38	2.05	69.02	4
249.02	252.07	3.05	2.83	92.79	1.13	39.93	4
252.07	255.12	3.05	2.84	93.11	1.48	52.11	3
255.12	258.17	3.05	2.94	96.39	1.89	64.29	3
258.17	261.21	3.04	2.96	97.37	1.93	65.20	4
261.21	264.26	3.05	3.00	98.36	2.53	84.33	3
264.26	267.31	3.05	3.04	99.67	1.90	62.50	3
267.31	270.36	3.05	2.93	96.07	2.52	86.01	3
270.36	273.41	3.05	3.09	101.31	2.48	80.26	3.5
273.41	276.45	3.04	3.11	102.30	1.87	60.13	4
276.45	279.50	3.05	2.90	95.08	2.23	76.90	4
279.50	282.55	3.05	3.09	101.31	1.87	60.52	4
282.55	285.60	3.05	3.22	105.57	2.22	68.94	4

INTERVAL (M)			RECOVERY		ROD		HARD
From	To	Length	Meters	%	Meters	%	
285.60	288.65	3.05	2.85	93.44	1.41	49.47	4
288.65	291.69	3.04	3.00	98.68	2.30	76.67	4
291.69	294.74	3.05	3.05	100.00	2.45	80.33	4
294.74	297.79	3.05	2.97	97.38	2.01	67.68	4
297.79	300.84	3.05	2.67	87.54	2.14	80.15	4
300.84	303.89	3.05	3.16	103.61	2.74	86.71	4
303.89	306.93	3.04	2.98	98.03	1.92	64.43	4
306.93	309.98	3.05	2.70	88.52	1.20	44.44	4
309.98	313.03	3.05	3.12	102.30	2.35	75.32	4
313.03	316.08	3.05	2.76	90.49	1.92	69.57	4
316.08	319.13	3.05	3.04	99.67	2.13	70.07	4
319.13	322.17	3.04	2.79	91.78	1.73	62.01	4
322.17	325.22	3.05	3.06	100.33	1.92	62.75	4
325.22	328.27	3.05	2.93	96.07	1.56	53.24	4
328.27	331.32	3.05	2.98	97.70	2.62	87.92	4
331.32	337.41	6.09	6.09	100.00	3.50	57.47	4
337.41	343.51	6.10	5.80	95.08	2.12	36.55	4
343.51	349.61	6.10	6.08	99.67	2.41	39.64	4
349.61	355.70	6.09	5.72	93.92	3.46	60.49	4
355.70	361.80	6.10	5.58	91.48	3.92	70.25	4
361.80	364.85	3.05	2.76	90.49	1.09	39.49	4
364.85	370.94	6.09	5.87	96.39	5.09	86.71	4
370.94	377.04	6.10	5.54	90.82	3.59	64.80	4
377.04	383.13	6.09	6.17	101.31	4.53	73.42	4
383.13	386.18	3.05	3.03	99.34	2.33	76.90	4
386.18	392.28	6.10	5.49	90.00	3.13	57.01	4
392.28	398.28	6.00	5.48	91.33	1.83	33.39	4
398.28	401.42	3.14	3.01	95.86	1.53	50.83	4
401.42	405.38	3.96	3.05	77.02	2.30	75.41	4
405.38	407.52	2.14	1.93	90.19	1.24	64.25	4
407.52	410.57	3.05	3.10	101.64	2.24	72.26	4
410.57	413.61	3.04	2.74	90.13	1.79	65.33	4
413.61	416.66	3.05	3.10	101.64	2.37	76.45	4
416.66	419.71	3.05	2.05	67.21	0.73	35.61	4
419.71	422.76	3.05	2.03	66.56	0.72	35.47	3
422.76	425.81	3.05	2.54	83.28	1.87	73.62	4
425.81	428.85	3.04	2.89	95.07	2.22	76.82	4
428.85	431.90	3.05	3.03	99.34	1.43	47.19	4
431.90	434.95	3.05	3.18	104.26	1.33	41.82	4
434.95	438.00	3.05	2.83	92.79	1.84	65.02	4
438.00	441.05	3.05	2.97	97.38	2.15	72.39	4
441.05	444.09	3.04	2.80	92.11	1.27	45.36	4
444.09	447.19	3.10	3.00	96.77	2.36	78.67	4
447.19	450.19	3.00	4.34	144.67	2.93	67.51	4
450.19	453.24	3.05	3.04	99.67	1.57	51.64	4
453.24	456.29	3.05	2.75	90.16	1.65	60.00	5
456.29	459.33	3.04	2.96	97.37	0.86	29.05	5
459.33	462.38	3.05	2.93	96.07	2.45	83.62	5
462.38	465.43	3.05	2.90	95.08	2.19	75.52	4
465.43	468.48	3.05	3.00	98.36	2.32	77.33	4
468.48	471.53	3.05	2.80	91.80	2.24	80.00	4
471.53	474.57	3.04	2.81	92.43	2.30	81.85	4
474.57	477.62	3.05	2.82	92.46	2.10	74.47	5
477.62	480.67	3.05	2.92	95.74	2.01	68.84	5
480.67	483.72	3.05	2.84	93.11	1.44	50.70	4
483.72	485.55	1.83	1.93	105.46	0.62	32.12	4

INTERVAL (M)			RECOVERY		RQD		HARD
From	To	Length	Meters	%	Meters	%	
485.55	489.81	4.26	3.99	93.66	2.11	52.88	4
489.81	495.91	6.10	5.18	84.92	4.02	77.61	4
495.91	501.01	5.10	6.10	119.61	5.83	95.57	4
501.01	508.10	7.09	5.96	84.06	4.97	83.39	4
508.10	514.20	6.10	5.98	98.03	3.58	59.87	4
514.20	520.29	6.09	5.74	94.25	3.22	56.10	4
520.29	526.39	6.10	6.04	99.02	3.56	58.94	4
526.39	532.49	6.10	5.90	96.72	5.28	89.49	4
532.49	535.53	3.04	2.81	92.43	2.11	75.09	4
535.53	538.58	3.05	2.97	97.38	1.90	63.97	4
538.58	541.63	3.05	2.63	86.23	1.76	66.92	4
541.63	544.68	3.05	3.18	104.26	1.10	34.59	4
544.68	547.73	3.05	3.27	107.21	1.63	49.85	4
547.73	550.77	3.04	2.96	97.37	1.96	66.22	5
550.77	553.82	3.05	2.71	88.85	1.62	59.78	5
553.82	556.87	3.05	3.01	98.69	2.33	77.41	5
556.87	559.92	3.05	2.90	95.08	1.92	66.21	5
559.92	562.97	3.05	3.00	98.36	1.65	55.00	5
562.97	566.01	3.04	2.88	94.74	2.27	78.82	5
566.01	569.06	3.05	2.99	98.03	2.31	77.26	6
569.06	572.11	3.05	3.10	101.64	2.43	78.39	5
572.11	575.16	3.05	3.01	98.69	1.30	43.19	6
575.16	578.21	3.05	3.03	99.34	2.56	84.49	5
578.21	581.25	3.04	2.77	91.12	2.46	88.81	5
581.25	584.30	3.05	2.97	97.38	2.00	67.34	5
584.30	587.35	3.05	2.96	97.05	1.93	65.20	6
587.35	590.40	3.05	2.92	95.74	2.36	80.82	5
590.40	593.45	3.05	3.00	98.36	1.97	65.67	6
593.45	596.45	3.00	2.94	98.00	2.13	72.45	5
596.45	599.54	3.09	3.23	104.53	1.84	56.97	5
599.54	605.64	6.10	5.94	97.38	4.20	70.71	5
605.64	611.73	6.09	2.86	46.96	4.06	141.96	5
611.73	617.83	6.10	2.97	48.69	3.05	102.69	5
617.83	623.93	6.10	6.05	99.18	3.64	60.17	4
623.93	630.02	6.09	6.00	98.52	2.30	38.33	4
630.02	636.12	6.10	5.89	96.56	3.95	67.06	6
636.12	639.17	3.05	3.05	100.00	2.36	77.38	4
639.17	642.21	3.04	2.92	96.05	0.89	30.48	4
642.21	645.16	2.95	2.95	100.00	0.40	13.56	5
645.16	648.31	3.15	3.10	98.41	1.74	56.13	5
648.31	651.36	3.05	2.99	98.03	1.92	64.21	5
651.36	654.41	3.05	2.95	96.72	1.51	51.19	5
654.41	657.45	3.04	3.08	101.32	1.97	63.96	5
657.45	660.50	3.05	3.13	102.62	2.35	75.08	5
660.50	663.55	3.05	3.00	98.36	2.61	87.00	5
663.55	666.60	3.05	3.22	105.57	1.67	51.86	5
666.60	669.65	3.05	3.08	100.98	1.64	53.25	5
669.65	672.69	3.04	3.09	101.64	2.69	87.06	5
672.69	675.74	3.05	2.91	95.41	1.36	46.74	5
675.74	678.89	3.15	3.18	100.95	1.69	53.14	5
678.89	681.84	2.95	3.01	102.03	0.30	9.97	5
681.84	684.89	3.05	3.24	106.23	0.11	3.40	5
684.89	687.93	3.04	2.90	95.39	0.11	3.79	4
687.93	688.54	0.61	0.70	114.75	0.31	44.29	4

E.O.H.

Date: July 4/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-13

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.05	3.05	casing		0		4
3.05	5.18	2.13	1.56	73.2	0.46	29.5	4
5.18	6.71	1.53	1.35	88.2	0.70	51.9	4
6.71	9.75	3.04	2.51	82.6	0.61	24.3	4
9.75	11.28	1.53	1.25	81.7	0.11	8.8	4
11.28	13.41	2.13	1.38	64.8	0.20	14.5	4
13.41	14.94	1.53	1.18	77.1	0.23	19.5	4
14.94	16.76	1.82	1.48	81.3	0.19	12.8	4
16.76	18.29	1.53	1.36	88.9	0.36	26.5	4
18.29	19.81	1.52	1.23	80.9	0.35	28.5	4
19.81	21.64	1.83	1.48	80.9	0.38	25.7	4
21.64	23.16	1.52	1.25	82.2	0.64	51.2	4
23.16	25.30	2.14	0.28	13.1	0.00	0.0	4
25.30	26.52	1.22	0.36	29.5	0.00	0.0	4
26.52	29.57	3.05	2.74	89.8	1.36	49.6	4
29.57	32.61	3.04	2.94	96.7	1.51	51.4	4
32.61	35.66	3.05	2.7	88.5	1.08	40.0	4
35.66	38.71	3.05	2.71	88.9	0.84	31.0	4
38.71	41.76	3.05	2.78	91.1	1.33	47.8	4
41.76	44.81	3.05	2.66	87.2	0.67	25.2	4
44.81	47.85	3.04	2.74	90.1	0.17	6.2	4
47.85	50.90	3.05	2.69	88.2	0.62	23.0	4
50.90	53.95	3.05	2.48	81.3	0.62	25.0	4
53.95	57.00	3.05	2.71	88.9	0.36	13.3	4
57.00	60.05	3.05	2.90	95.1	0.38	13.1	4
60.05	63.09	3.04	2.78	91.4	0.95	34.2	4
63.09	66.14	3.05	2.43	79.7	0.00	0.0	4
66.14	69.19	3.05	2.83	92.8	1.19	42.0	4
69.19	72.24	3.05	2.56	83.9	1.08	42.2	4
72.24	75.29	3.05	3.95	129.5	3.03	76.7	4
75.29	78.33	3.04	2.51	82.6	2.37	94.4	4
78.33	81.38	3.05	3.17	103.9	1.97	62.1	4
81.38	84.43	3.05	2.81	92.1	0.73	26.0	4
84.43	87.48	3.05	2.90	95.1	2.00	69.0	4
87.48	90.53	3.05	2.96	97.0	2.66	89.9	4
90.53	93.57	3.04	3.04	100.0	2.63	86.5	4
93.57	96.62	3.05	2.88	94.4	2.23	77.4	4
96.62	99.67	3.05	2.94	96.4	2.28	77.6	4
99.67	102.72	3.05	2.72	89.2	2.04	75.0	4
102.72	105.77	3.05	2.77	90.8	2.65	95.7	4
105.77	108.81	3.04	2.79	91.8	1.75	62.7	4
108.81	111.86	3.05	2.73	89.5	2.15	78.8	4
111.86	114.91	3.05	2.95	96.7	2.16	73.2	4
114.91	117.96	3.05	3.03	99.3	2.16	71.3	4
117.96	121.01	3.05	3	98.4	2.04	68.0	4
121.01	124.05	3.04	3.04	100.0	1.95	64.1	4
124.05	127.10	3.05	2.9	95.1	1.74	60.0	4
127.10	130.15	3.05	3.05	100.0	1.57	51.5	4
130.15	133.20	3.05	2.88	94.4	1.29	44.8	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
133.20	136.25	3.05	2.9	95.1	1.59	54.8	4
136.25	139.29	3.04	2.77	91.1	1.13	40.8	4
139.29	142.34	3.05	2.86	93.8	0.6	21.0	4
142.34	145.39	3.05	2.92	95.7	1.67	57.2	4
145.39	148.44	3.05	2.82	92.5	1.73	61.3	4
148.44	151.49	3.05	3.02	99.0	2.11	69.9	4
151.49	154.43	2.94	2.99	101.7	2.56	85.6	4
154.43	157.58	3.15	3.09	98.1	2.45	79.3	4
157.58	160.63	3.05	2.84	93.1	2	70.4	4
160.63	163.68	3.05	2.92	95.7	1.86	63.7	4
163.68	166.73	3.05	2.91	95.4	2.32	79.7	4
166.73	169.77	3.04	2.84	93.4	0.94	33.1	4
169.77	172.82	3.05	2.63	86.2	0.75	28.5	4
172.82	175.87	3.05	2.65	86.9	0.74	27.9	4
175.87	178.92	3.05	2.95	96.7	1.43	48.5	6
178.92	181.97	3.05	2.84	93.1	1.39	48.9	4
181.97	185.01	3.04	2.91	95.7	1.75	60.1	6
185.01	188.06	3.05	2.84	93.1	0.76	26.8	4
188.06	191.11	3.05	2.93	96.1	1.57	53.6	6
191.11	194.16	3.05	3.02	99.0	1.72	57.0	6
194.16	197.21	3.05	2.86	93.8	1.44	50.3	6
197.21	200.25	3.04	2.88	94.7	1.94	67.4	6
200.25	203.30	3.05	3.00	98.4	1.5	50.0	6
203.30	206.35	3.05	2.80	91.8	1.46	52.1	6
206.35	209.40	3.05	2.77	90.8	1.88	67.9	6
209.40	212.45	3.05	2.59	84.9	0.73	28.2	6
212.45	215.49	3.04	2.71	89.1	0.94	34.7	6
215.49	218.54	3.05	2.81	92.1	1.30	46.3	6
218.54	224.64	6.10	5.59	91.6	1.99	35.6	4
224.64	227.99	3.35	2.75	82.1	0.11	4.0	4
227.99	232.26	4.27	2.88	67.4	1.12	38.9	4
232.26	235.92	3.66	3.04	83.1	1.00	32.9	4
235.92	240.49	4.57	3.90	85.3	1.08	27.7	4
240.49	243.84	3.35	2.79	83.3	0.88	31.5	4
243.84	252.87	9.03	7.50	83.1	2.88	38.4	6
252.87	254.51	1.64	2.22	135.4	0.83	37.4	4
254.51	258.17	3.66	3.04	83.1	0.57	18.8	3
258.17	264.26	6.09	5.33	87.5	2.70	50.7	3
264.26	267.61	3.35	2.88	86.0	1.01	35.1	4
267.61	273.41	5.80	4.93	85.0	3.07	62.3	4
273.41	279.50	6.09	5.98	98.2	4.63	77.4	4
279.50	285.60	6.10	5.56	91.1	3.78	68.0	4
285.60	291.69	6.09	5.73	94.1	4.55	79.4	4
291.69	294.74	3.05	2.86	93.8	1.89	66.1	4
294.74	297.79	3.05	2.99	98.0	1.82	60.9	4
297.79	300.84	3.05	2.94	96.4	0.49	16.7	3.5
300.84	303.89	3.05	2.53	83.0	0.79	31.2	4
303.89	306.93	3.04	3.00	98.7	2.34	78.0	4
306.93	309.98	3.05	2.85	93.4	2.17	76.1	4
309.98	313.03	3.05	3.00	98.4	2.49	83.0	4
313.03	316.08	3.05	2.88	94.4	2.17	75.3	4
316.08	319.13	3.05	2.99	98.0	2.30	76.9	3.5
319.13	322.17	3.04	2.87	94.4	1.82	63.4	3.5
322.17	325.22	3.05	3.02	99.0	1.37	45.4	3.5
325.22	328.27	3.05	2.78	91.1	2.00	71.9	4
328.27	331.32	3.05	2.90	95.1	2.31	79.7	3

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
331.32	334.37	3.05	2.88	94.4	2.46	85.4	3
334.37	337.41	3.04	2.97	97.7	2.15	72.4	3
337.41	340.46	3.05	2.89	94.8	2.37	82.0	4
340.46	343.51	3.05	2.93	96.1	1.60	54.6	3
343.51	346.56	3.05	2.8	91.8	2.04	72.9	3
346.56	349.61	3.05	2.76	90.5	0.79	28.6	5
349.61	352.65	3.04	2.62	86.2	0.12	4.6	5
352.65	355.70	3.05	2.84	93.1	0.78	27.5	5
355.70	361.80	6.10	5.62	92.1	1.44	25.6	5
361.80	367.89	6.09	5.69	93.4	3.80	66.8	4
367.89	373.99	6.10	5.43	89.0	1.70	31.4	3
373.99	380.09	6.10	5.08	83.3	3.43	67.5	3
380.09	386.18	6.09	6	98.5	1.4	23.3	3
386.18	392.28	6.10	5.74	94.1	3.58	62.4	4
392.28	395.33	3.05	2.76	90.5	1.75	63.4	4
395.33	399.59	4.26	3.95	92.7	2.61	66.1	3
399.59	403.86	4.27	3.40	79.6	1.91	56.2	3
403.86	410.57	6.71	6.87	102.4	4.54	66.1	4
410.57	416.66	6.09	6.14	100.8	4.7	76.5	3
416.66	422.76	6.10	5.92	97.0	4.41	74.5	4
422.76	428.85	6.09	6.01	98.7	5.00	83.2	4
428.85	434.95	6.10	6.20	101.6	4.90	79.0	4
434.95	441.05	6.10	6.08	99.7	4.51	74.2	4
441.05	444.09	3.04	3.02	99.3	2.91	96.4	4
444.09	447.14	3.05	3.10	101.6	2.84	91.6	4
447.14	450.19	3.05	3.00	98.4	2.53	84.3	4
450.19	453.16	2.97	2.95	99.3	2.27	76.9	4
453.16	456.21	3.05	3.05	100.0	2.35	77.0	4
456.21	459.33	3.12	3.07	98.4	2.38	77.5	4
459.33	462.38	3.05	3.02	99.0	2.57	85.1	4
462.38	465.43	3.05	3.06	100.3	3.06	100.0	4
465.43	468.48	3.05	3.09	101.3	2.38	77.0	4
468.48	471.53	3.05	3.06	100.3	2.82	92.2	4
471.53	474.57	3.04	3.04	100.0	2.78	91.4	4
474.57	477.62	3.05	3.01	98.7	2.56	85.0	4
477.62	480.67	3.05	3.00	98.4	2.84	94.7	4
480.67	483.72	3.05	3.10	101.6	2.98	96.1	4
483.72	486.77	3.05	2.97	97.4	2.07	69.7	4
486.77	489.81	3.04	3.13	103.0	2.75	87.9	4
489.81	492.86	3.05	2.99	98.0	2.63	88.0	4
492.86	495.91	3.05	3.13	102.6	2.54	81.2	4
495.91	498.96	3.05	2.97	97.4	2.90	97.6	4
498.96	502.01	3.05	2.99	98.0	2.81	94.0	4
502.01	505.05	3.04	3.00	98.7	2.59	86.3	4
505.05	508.1	3.05	3.19	104.6	1.87	58.6	4
508.1	511.15	3.05	2.96	97.0	2.70	91.2	4
511.15	515.42	4.27	4.21	98.6	1.56	37.1	3
515.42	518.46	3.04	3.02	99.3	1.52	50.3	4
518.46	523.34	4.88	5.07	103.9	4.04	79.7	4
523.34	529.44	6.10	6.05	99.2	4.10	67.8	4
529.44	535.53	6.09	6.12	100.5	5.27	86.1	4
535.53	538.89	3.36	3.1	92.3	1.38	44.5	4
538.89	544.68	5.79	5.63	97.2	3.61	64.1	4
544.68	550.77	6.09	6.1	100.2	4.28	70.2	4
550.77	556.87	6.10	6.14	100.7	3.46	56.4	4
556.87	562.97	6.10	5.99	98.2	3.55	59.3	5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
562.97	566.01	3.04	2.94	96.7	1.77	60.2	5
566.01	569.06	3.05	2.92	95.7	1.84	63.0	4
569.06	572.11	3.05	3.02	99.0	1.33	44.0	4
572.11	575.16	3.05	3	98.4	1.42	47.3	4
575.16	578.21	3.05	2.99	98.0	1.02	34.1	4
578.21	581.25	3.04	3.02	99.3	2.18	72.2	5
581.25	584.3	3.05	3.2	104.9	1.64	51.3	4
584.3	587.35	3.05	2.93	96.1	0.60	20.5	3
587.35	590.4	3.05	3.01	98.7	1.47	48.8	5
590.4	593.45	3.05	3.1	101.6	2.20	71.0	5
593.45	596.49	3.04	3.2	105.3	1.33	41.6	4
596.49	599.54	3.05	3.02	99.0	2.21	73.2	5
599.54	602.59	3.05	3.04	99.7	2.35	77.3	5
602.59	605.64	3.05	3	98.4	1.93	64.3	5
605.64	608.69	3.05	2.99	98.0	2.42	80.9	5
608.69	611.73	3.04	3.07	101.0	2.23	72.6	5
611.73	614.78	3.05	3.1	101.6	2.46	79.4	5
614.78	617.83	3.05	3.09	101.3	2.24	72.5	5
617.83	620.88	3.05	2.71	88.9	1.26	46.5	5
620.88	623.62	2.74	2.73	99.6	0.83	30.4	4
623.62	626.97	3.35	3.25	97.0	1.67	51.4	5
626.97	630.02	3.05	3.1	101.6	1.42	45.8	5
630.02	633.07	3.05	3.05	100.0	0.76	24.9	4
633.07	636.12	3.05	3.03	99.3	1.71	56.4	5
636.12	642.21	6.09	5.84	95.9	1.63	27.9	5
642.21	645.26	3.05	2.94	96.4	2.21	75.2	5
645.26	648.31	3.05	3.07	100.7	1.97	64.2	5
648.31	651.36	3.05	2.86	93.8	0.97	33.9	4.5
651.36	654.41	3.05	2.95	96.7	1.35	45.8	4.5
654.41	657.45	3.04	3.03	99.7	1.28	42.2	4.5
657.45	660.5	3.05	2.87	94.1	1.07	37.3	4.5
660.5	663.55	3.05	2.92	95.7	1.66	56.8	4.5
663.55	666.60	3.05	3.07	100.7	1.33	43.3	4.5
666.60	669.65	3.05	2.92	95.7	1.20	41.1	4
669.65	672.69	3.04	2.94	96.7	0.41	13.9	4.5
672.69	675.74	3.05	2.83	92.8	1.51	53.4	4.5
675.74	678.79	3.05	3.07	100.7	1.56	50.8	4
678.79	681.84	3.05	2.84	93.1	0.57	20.1	4
681.84	684.89	3.05	2.94	96.4	1.15	39.1	4.5
684.89	687.93	3.04	3.05	100.3	1.12	36.7	4.5
687.93	690.98	3.05	2.79	91.5	1.61	57.7	5

E.O.H.

Date: July 4/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-14

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	9.14	9.14	OVBDN		OVBDN		OVBDN
9.14	9.75	0.61	0.24	39.34	0.00	0.00	4
9.75	12.80	3.05	2.16	70.82	0.10	3.28	4
12.80	15.85	3.05	2.40	78.69	0.00	0.00	4
15.85	18.90	3.05	2.20	72.13	0.10	3.28	4
18.90	21.95	3.05	1.48	48.52	0.10	3.28	3
21.95	24.99	3.04	1.66	54.61	0.10	3.29	3
24.99	28.04	3.05	0.65	21.31	0.00	0.00	3
28.04	31.04	3.00	0.84	28.00	0.00	0.00	3
31.04	34.14	3.10	0.68	21.94	0.00	0.00	4
34.14	37.19	3.05	0.47	15.41	0.00	0.00	4
37.19	40.23	3.04	2.93	96.38	0.00	0.00	4
40.23	43.28	3.05	1.51	49.51	0.11	3.61	4
43.28	46.33	3.05	0.62	20.33	0.00	0.00	3
46.33	49.38	3.05	0.26	8.52	0.00	0.00	3
49.38	52.43	3.05	0.94	30.82	0.00	0.00	3
52.43	55.47	3.04	1.23	40.46	0.00	0.00	4
55.47	58.52	3.05	1.52	49.84	0.00	0.00	4
58.52	61.57	3.05	0.53	17.38	0.00	0.00	4
61.57	64.62	3.05	1.48	48.52	0.20	6.56	4
64.62	67.67	3.05	1.20	39.34	0.00	0.00	4
67.67	70.71	3.04	0.18	5.92	0.00	0.00	4
70.71	73.76	3.05	0.64	20.98	0.00	0.00	4
73.76	76.81	3.05	0.32	10.49	0.00	0.00	4
76.81	79.86	3.05	0.18	5.90	0.00	0.00	2
79.86	82.91	3.05	0.20	6.56	0.00	0.00	2
82.91	85.95	3.04	0.17	5.59	0.00	0.00	2
85.95	89.00	3.05	0.09	2.95	0.00	0.00	2
89.00	90.53	1.53	0.00	0.00	0.00	0.00	
90.53	92.05	1.52	0.00	0.00	0.00	0.00	
92.05	95.10	3.05	2.38	78.03	2.05	67.21	4
95.10	98.15	3.05	2.90	95.08	2.04	66.89	4
98.15	100.58	2.43	2.46	101.23	2.28	93.83	5
100.58	102.72	2.14	1.78	83.18	1.48	69.16	5
102.72	105.77	3.05	2.83	92.79	2.16	70.82	5
105.77	108.81	3.04	2.94	96.71	2.43	79.93	5
108.81	111.86	3.05	3.01	98.69	2.61	85.57	5
111.86	114.91	3.05	3.00	98.36	2.49	81.64	5
114.91	117.96	3.05	3.01	98.69	2.56	83.93	5
117.96	121.01	3.05	3.05	100.00	2.41	79.02	5
121.01	124.05	3.04	2.99	98.36	2.58	84.87	5
124.05	127.10	3.05	3.04	99.67	2.84	93.11	5
127.10	130.15	3.05	2.99	98.03	2.51	82.30	5
130.15	133.20	3.05	2.89	94.75	2.46	80.66	5
133.20	136.25	3.05	2.94	96.39	2.46	80.66	5
136.25	139.29	3.04	2.92	96.05	1.91	62.83	5
139.29	142.34	3.05	2.93	96.07	2.10	68.85	5
142.34	145.39	3.05	2.95	96.72	2.21	72.46	5
145.39	148.44	3.05	2.99	98.03	2.59	84.92	5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
319.13	322.17	3.04	3.05	100.33	2.28	75.00	4
322.17	325.22	3.05	3.02	99.02	2.55	83.61	5
325.22	328.27	3.05	3.12	102.30	1.73	56.72	5
328.27	331.32	3.05	3.06	100.33	2.15	70.49	5
331.32	334.37	3.05	3.05	100.00	2.69	88.20	5
334.37	337.41	3.04	3.05	100.33	2.48	81.58	5
337.41	340.46	3.05	3.02	99.02	2.40	78.69	5
340.46	343.51	3.05	3.04	99.67	1.48	48.52	5
343.51	346.56	3.05	3.07	100.66	1.27	41.64	5
346.56	349.61	3.05	2.97	97.38	1.41	46.23	5
349.61	352.65	3.04	3.07	100.99	0.95	31.25	5
352.65	355.70	3.05	3.00	98.36	1.53	50.16	4
355.70	358.75	3.05	3.10	101.64	1.59	52.13	5
358.75	361.80	3.05	3.07	100.66	1.97	64.59	4
361.80	364.85	3.05	3.05	100.00	1.35	44.26	4
364.85	367.89	3.04	3.09	101.64	2.10	69.08	4
367.89	370.94	3.05	3.00	98.36	1.60	52.46	4
370.94	373.99	3.05	3.10	101.64	0.98	32.13	4
373.99	377.04	3.05	2.77	90.82	1.02	33.44	5
377.04	380.09	3.05	3.11	101.97	1.80	59.02	4
380.09	383.13	3.04	2.94	96.71	1.20	39.47	4
383.13	386.18	3.05	3.05	100.00	0.80	26.23	5
386.18	389.23	3.05	3.06	100.33	0.57	18.69	5
389.23	392.28	3.05	3.07	100.66	2.08	68.20	5
392.28	395.33	3.05	3.05	100.00	0.30	9.84	5
395.33	398.37	3.04	3.13	102.96	1.54	50.66	5
398.37	401.42	3.05	3.06	100.33	0.88	28.85	5
401.42	404.47	3.05	2.76	90.49	1.40	45.90	5
404.47	407.52	3.05	3.05	100.00	2.35	77.05	5
407.52	410.57	3.05	2.97	97.38	1.98	64.92	5
410.57	413.61	3.04	3.18	104.61	2.48	81.58	5
413.61	416.66	3.05	2.71	88.85	1.33	43.61	4
416.66	419.71	3.05	2.96	97.05	1.64	53.77	4

E.O.H.

Date: July 29/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-14B

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
422.11	422.76	0.65	0.65	100.00	0.15	23.08	4
422.76	425.81	3.05	2.84	93.11	0.10	3.52	4
425.81	428.85	3.04	2.98	98.03	1.52	51.01	4
428.85	431.90	3.05	3.07	100.66	1.54	50.16	4
431.90	434.95	3.05	3.04	99.67	1.72	56.58	4
434.95	438.00	3.05	3.04	99.67	2.29	75.33	4
438.00	441.05	3.05	3.04	99.67	2.35	77.30	4
441.05	444.09	3.04	2.98	98.03	2.57	86.24	4
444.09	447.14	3.05	2.95	96.72	1.23	41.69	4
447.14	450.19	3.05	3.06	100.33	1.39	45.42	4
450.19	453.24	3.05	3.00	98.36	1.87	62.33	4
453.24	456.29	3.05	2.93	96.07	1.64	55.97	4
456.29	459.33	3.04	3.07	100.99	0.98	31.92	4
459.33	462.38	3.05	3.04	99.67	0.58	19.08	4
462.38	465.43	3.05	3.01	98.69	0.73	24.25	4
465.43	468.48	3.05	3.06	100.33	0.20	6.54	4
468.48	471.53	3.05	2.99	98.03	0.82	27.42	4
471.53	474.57	3.04	3.00	98.68	1.04	34.67	4
474.57	477.62	3.05	3.01	98.69	0.83	27.57	4
477.62	480.67	3.05	3.03	99.34	1.59	52.48	4
480.67	483.72	3.05	2.91	95.41	2.00	68.73	4
483.72	486.77	3.05	3.03	99.34	2.46	81.19	4
486.77	489.81	3.04	3.06	100.66	2.65	86.60	4
489.81	492.86	3.05	2.97	97.38	1.56	52.53	4
492.86	495.91	3.05	2.94	96.39	1.73	58.84	4
495.91	498.96	3.05	3.02	99.02	2.23	73.84	5
498.96	502.01	3.05	3.01	98.69	2.11	70.10	5
502.01	505.05	3.04	3.01	99.01	1.48	49.17	4
505.05	508.10	3.05	2.99	98.03	1.10	36.79	4
508.10	511.15	3.05	3.00	98.36	1.61	53.67	4
511.15	514.20	3.05	2.99	98.03	2.53	84.62	4
514.20	517.25	3.05	3.13	102.62	2.07	66.13	4
517.25	520.29	3.04	3.07	100.99	1.50	48.86	3
520.29	523.34	3.05	3.04	99.67	2.68	88.16	4
523.34	526.39	3.05	3.04	99.67	2.66	87.50	4
526.39	529.44	3.05	3.01	98.69	2.48	82.39	4
529.44	532.49	3.05	3.04	99.67	2.96	97.37	4
532.49	535.53	3.04	3.00	98.68	2.77	92.33	4
535.53	538.58	3.05	3.05	100.00	2.77	90.82	4
538.58	541.63	3.05	3.05	100.00	2.73	89.51	4
541.63	544.68	3.05	3.02	99.02	2.99	99.01	4
544.68	547.73	3.05	3.03	99.34	2.88	95.05	4
547.73	550.77	3.04	3.03	99.67	2.86	94.39	4
550.77	553.82	3.05	3.05	100.00	2.69	88.20	4
553.82	556.87	3.05	3.12	102.30	2.83	90.71	4
556.87	559.92	3.05	3.03	99.34	2.86	94.39	4
559.92	562.97	3.05	3.04	99.67	2.81	92.43	4
562.97	566.01	3.04	3.02	99.34	3.02	100.00	4
566.01	569.06	3.05	3.02	99.02	2.83	93.71	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
569.06	572.11	3.05	3.04	99.67	2.72	89.47	4
572.11	575.16	3.05	3.00	98.36	2.87	95.67	4
575.16	578.21	3.05	2.98	97.70	2.73	91.61	4
578.21	581.25	3.04	3.03	99.67	2.75	90.76	4
581.25	584.30	3.05	2.99	98.03	1.86	62.21	4
584.30	587.35	3.05	3.03	99.34	2.50	82.51	4
587.35	590.40	3.05	3.03	99.34	1.94	64.03	4
590.40	593.45	3.05	2.90	95.08	1.09	37.59	4
593.45	596.49	3.04	2.85	93.75	2.20	77.19	4
596.49	599.54	3.05	2.98	97.70	2.42	81.21	4
599.54	602.59	3.05	2.92	95.74	1.89	64.73	4
602.59	605.64	3.05	3.04	99.67	2.06	67.76	4
605.64	608.69	3.05	3.04	99.67	2.39	78.62	4
608.69	611.73	3.04	3.02	99.34	2.83	93.71	4
611.73	614.78	3.05	2.98	97.70	2.55	85.57	4
614.78	616.61	1.83	2.03	110.93	1.58	77.83	4
E.O.H.							

Date: July 17/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-15

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	9.14	9.14	0.00	0.0	0.00	0.0	1
9.14	9.75	0.61	0.38	62.3	0.00	0.0	4
9.75	12.80	3.05	1.31	43.0	0.00	0.0	4
12.80	15.85	3.05	1.22	40.0	0.00	0.0	3
15.85	18.90	3.05	1.82	59.7	0.00	0.0	3
18.90	21.95	3.05	1.57	51.5	0.00	0.0	3
21.95	24.99	3.04	1.72	56.6	0.00	0.0	3
24.99	28.04	3.05	1.68	55.1	0.26	8.5	3
28.04	31.09	3.05	1.29	42.3	0.00	0.0	3
31.09	34.14	3.05	1.63	53.4	0.00	0.0	3
34.14	37.19	3.05	0.60	19.7	0.21	6.9	3
37.19	40.23	3.04	0.37	12.2	0.00	0.0	3
40.23	43.28	3.05	0.75	24.6	0.24	7.9	3
43.28	46.33	3.05	2.32	76.1	0.35	11.5	3.5
46.33	49.38	3.05	2.33	76.4	0.00	0.0	3.5
49.38	52.43	3.05	1.68	55.1	0.00	0.0	3.5
52.43	55.47	3.04	1.15	37.8	0.00	0.0	3
55.47	58.52	3.05	0.00	0.0	0.00	0.0	1
58.52	61.57	3.05	0.00	0.0	0.00	0.0	1
61.57	64.62	3.05	1.12	36.7	0.00	0.0	3.5
64.62	67.67	3.05	0.00	0.0	0.00	0.0	1
67.67	70.71	3.04	0.00	0.0	0.00	0.0	1
70.71	73.76	3.05	0.00	0.0	0.00	0.0	1
73.76	76.81	3.05	0.00	0.0	0.00	0.0	1
76.81	79.25	2.44	0.45	18.4	0.12	4.9	3.5
79.25	81.38	2.13	2.01	94.4	1.80	84.5	4
81.38	84.43	3.05	3.01	98.7	2.82	92.5	4
84.43	87.48	3.05	3.06	100.3	2.73	89.5	4
87.48	90.53	3.05	3.05	100.0	2.56	83.9	4
90.53	93.57	3.04	3.02	99.3	2.70	88.8	4
93.57	96.62	3.05	3.03	99.3	2.93	96.1	4
96.62	99.67	3.05	3.02	99.0	2.61	85.6	4
99.67	102.72	3.05	2.96	97.0	1.63	53.4	4
102.72	105.77	3.05	3.01	98.7	1.15	37.7	4
105.77	108.81	3.04	3.01	99.0	1.79	58.9	4
108.81	111.86	3.05	2.99	98.0	0.81	26.6	4
111.86	114.91	3.05	3.06	100.3	1.56	51.1	4
114.91	117.96	3.05	3.07	100.7	1.85	60.7	4
117.96	121.01	3.05	3.08	101.0	2.28	74.8	4
121.01	124.05	3.04	3.09	101.6	1.66	54.6	4
124.05	127.10	3.05	3.02	99.0	2.42	79.3	4
127.10	130.15	3.05	3.10	101.6	2.91	95.4	4
130.15	133.20	3.05	3.00	98.4	2.76	90.5	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
133.20	136.25	3.05	3.04	99.7	2.75	90.2	4
136.25	139.29	3.04	3.05	100.3	2.47	81.3	4
139.29	142.34	3.05	2.98	97.7	2.88	94.4	4
142.34	145.39	3.05	3.08	101.0	2.51	82.3	4
145.39	148.44	3.05	3.02	99.0	1.70	55.7	4
148.44	151.49	3.05	3.05	100.0	2.64	86.6	4
151.49	154.53	3.04	3.04	100.0	2.41	79.3	4
154.53	157.58	3.05	3.04	99.7	2.81	92.1	4
157.58	160.63	3.05	3.07	100.7	2.69	88.2	4
160.63	163.68	3.05	3.04	99.7	2.46	80.7	4
163.68	166.73	3.05	3.06	100.3	2.93	96.1	4.5
166.73	169.77	3.04	3.01	99.0	2.75	90.5	4.5
169.77	172.82	3.05	3.11	102.0	3.04	99.7	4.5
172.82	175.87	3.05	3.07	100.7	2.94	96.4	4.5
175.87	178.92	3.05	3.01	98.7	2.82	92.5	4.5
178.92	181.97	3.05	3.06	100.3	2.69	88.2	4.5
181.97	185.01	3.04	3.05	100.3	2.33	76.6	4.5
185.01	188.06	3.05	3.08	101.0	2.44	80.0	5
188.06	191.11	3.05	2.99	98.0	2.01	65.9	5
191.11	194.16	3.05	3.03	99.3	2.90	95.1	5
194.16	197.21	3.05	3.05	100.0	2.46	80.7	5
197.21	200.25	3.04	3.03	99.7	2.89	95.1	5
200.25	203.30	3.05	3.02	99.0	2.40	78.7	5
203.30	206.35	3.05	3.03	99.3	2.64	86.6	5
206.35	209.40	3.05	3.02	99.0	3.02	99.0	4
209.40	212.45	3.05	3.04	99.7	2.68	87.9	4
212.45	215.49	3.04	3.09	101.6	2.63	86.5	4
215.49	218.54	3.05	3.08	101.0	2.46	80.7	4
218.54	221.59	3.05	3.03	99.3	2.84	93.1	5
221.59	224.64	3.05	2.99	98.0	2.99	98.0	5
224.64	227.69	3.05	3.02	99.0	2.64	86.6	4
227.69	230.73	3.04	2.97	97.7	2.89	95.1	5
230.73	233.78	3.05	3.05	100.0	2.92	95.7	4
233.78	236.83	3.05	3.01	98.7	2.52	82.6	4
236.83	239.88	3.05	3.05	100.0	2.86	93.8	4
239.88	242.93	3.05	3.02	99.0	2.87	94.1	4
242.93	245.97	3.04	3.04	100.0	2.94	96.7	4
245.97	249.02	3.05	3.05	100.0	3.05	100.0	4.5
249.02	252.07	3.05	3.03	99.3	2.51	82.3	5
252.07	255.12	3.05	3.01	98.7	2.56	83.9	4.5
255.12	258.17	3.05	3.06	100.3	2.80	91.8	4
258.17	261.21	3.04	3.06	100.7	2.88	94.7	4.5
261.21	264.26	3.05	3.07	100.7	2.76	90.5	4.5
264.26	267.31	3.05	3.07	100.7	2.73	89.5	4
267.31	270.36	3.05	3.02	99.0	2.74	89.8	4
270.36	273.41	3.05	3.01	98.7	2.92	95.7	4
273.41	276.45	3.04	3.10	102.0	2.80	92.1	4
276.45	279.50	3.05	3.04	99.7	2.65	86.9	4
279.50	282.55	3.05	3.05	100.0	2.29	75.1	4
282.55	285.60	3.05	3.08	101.0	2.91	95.4	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
285.60	288.65	3.05	3.10	101.6	3.00	98.4	4
288.65	291.69	3.04	3.02	99.3	2.75	90.5	4
291.69	294.74	3.05	3.06	100.3	2.98	97.7	4
294.74	297.79	3.05	3.09	101.3	2.75	90.2	4
297.79	300.84	3.05	3.06	100.3	2.29	75.1	4
300.84	303.89	3.05	3.04	99.7	1.78	58.4	4
303.89	306.93	3.04	3.08	101.3	1.93	63.5	4
306.93	309.98	3.05	3.05	100.0	2.52	82.6	4
309.98	313.03	3.05	3.05	100.0	1.99	65.2	4
313.03	316.08	3.05	3.03	99.3	2.27	74.4	4
316.08	319.13	3.05	3.03	99.3	2.18	71.5	4
319.13	322.17	3.04	3.05	100.3	2.52	82.9	4
322.17	325.22	3.05	3.08	101.0	2.81	92.1	4
325.22	328.27	3.05	3.01	98.7	2.40	78.7	4
328.27	331.32	3.05	3.05	100.0	2.19	71.8	4
331.32	334.37	3.05	3.01	98.7	1.98	64.9	4
334.37	337.41	3.04	3.01	99.0	1.36	44.7	4
337.41	340.46	3.05	3.10	101.6	2.15	70.5	4
340.46	343.51	3.05	3.09	101.3	1.40	45.9	4
343.51	346.56	3.05	2.97	97.4	2.28	74.8	4
346.56	349.61	3.05	3.10	101.6	1.38	45.2	4
349.61	352.65	3.04	3.04	100.0	1.30	42.8	4
352.65	355.70	3.05	3.05	100.0	1.60	52.5	4
355.70	358.75	3.05	3.02	99.0	2.00	65.6	4
358.75	361.80	3.05	3.00	98.4	1.95	63.9	4
361.80	364.85	3.05	3.02	99.0	2.03	66.6	4
364.85	367.89	3.04	3.02	99.3	1.00	32.9	4
367.89	370.94	3.05	3.03	99.3	2.11	69.2	3.5
370.94	373.99	3.05	3.01	98.7	1.21	39.7	3.5
373.99	377.04	3.05	3.02	99.0	1.59	52.1	3.5
377.04	380.09	3.05	3.05	100.0	1.26	41.3	3.5
380.09	383.13	3.04	3.07	101.0	1.29	42.4	3.5
383.13	386.18	3.05	3.06	100.3	1.47	48.2	3.5
386.18	389.23	3.05	3.07	100.7	2.40	78.7	3.5
389.23	392.28	3.05	3.03	99.3	2.74	89.8	4
392.28	395.33	3.05	3.06	100.3	2.83	92.8	4
395.33	398.37	3.04	3.07	101.0	2.73	89.8	4
398.37	401.42	3.05	3.00	98.4	2.57	84.3	4
401.42	404.47	3.05	3.10	101.6	2.90	95.1	4
404.47	407.52	3.05	3.00	98.4	2.83	92.8	4
407.52	410.57	3.05	2.91	95.4	2.20	72.1	4
410.57	413.61	3.04	3.07	101.0	2.95	97.0	4
413.61	416.66	3.05	3.01	98.7	2.46	80.7	4
416.66	419.71	3.05	3.08	101.0	2.88	94.4	4
419.71	422.76	3.05	3.07	100.7	2.98	97.7	4
422.76	425.81	3.05	3.00	98.4	2.67	87.5	4
425.81	428.85	3.04	3.03	99.7	2.87	94.4	4
428.85	431.90	3.05	3.09	101.3	2.89	94.8	4
431.90	434.95	3.05	3.15	103.3	2.94	96.4	4
434.95	438.00	3.05	3.07	100.7	2.75	90.2	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
438.00	441.05	3.05	3.08	101.0	2.71	88.9	4
441.05	444.09	3.04	2.95	97.0	2.70	88.8	4
444.09	447.14	3.05	3.01	98.7	2.42	79.3	4
447.14	450.19	3.05	3.01	98.7	1.80	59.0	4
450.19	453.24	3.05	3.00	98.4	2.12	69.5	3.5
453.24	456.29	3.05	3.02	99.0	2.10	68.9	3.5
456.29	459.33	3.04	3.00	98.7	1.57	51.6	3.5
459.33	462.38	3.05	2.99	98.0	1.32	43.3	4
462.38	465.43	3.05	2.95	96.7	1.79	58.7	4
465.43	468.48	3.05	3.03	99.3	0.89	29.2	4
468.48	471.53	3.05	2.96	97.0	1.25	41.0	4
471.53	474.57	3.04	3.04	100.0	2.11	69.4	4
474.57	477.62	3.05	3.07	100.7	1.95	63.9	4
477.62	480.67	3.05	2.97	97.4	2.18	71.5	4
480.67	483.72	3.05	3.03	99.3	2.28	74.8	4
483.72	486.77	3.05	3.05	100.0	2.20	72.1	4
486.77	489.81	3.04	3.04	100.0	2.57	84.5	4
489.81	492.86	3.05	3.01	98.7	2.32	76.1	4
492.86	495.91	3.05	3.07	100.7	2.51	82.3	4.5
495.91	498.96	3.05	3.04	99.7	2.73	89.5	4.5
498.96	502.01	3.05	3.03	99.3	2.89	94.8	4.5
502.01	505.05	3.04	3.02	99.3	2.57	84.5	4.5
505.05	508.10	3.05	2.93	96.1	2.80	91.8	4.5
508.10	511.15	3.05	3.07	100.7	2.83	92.8	4
511.15	514.20	3.05	3.04	99.7	3.00	98.4	4
514.20	517.25	3.05	2.97	97.4	2.62	85.9	4
517.25	520.29	3.04	3.06	100.7	1.46	48.0	4
520.29	523.34	3.05	3.00	98.4	2.03	66.6	3
523.34	526.39	3.05	3.00	98.4	2.61	85.6	4
526.39	529.44	3.05	2.98	97.7	2.85	93.4	4
529.44	532.48	3.04	3.01	99.0	2.23	73.4	5
532.48	535.53	3.05	3.04	99.7	2.56	83.9	5
535.53	538.58	3.05	3.01	98.7	2.76	90.5	4
538.58	541.63	3.05	3.06	100.3	2.75	90.2	5
541.63	544.68	3.05	3.02	99.0	2.51	82.3	5
544.68	547.73	3.05	3.03	99.3	2.58	84.6	5
547.73	550.77	3.04	3.03	99.7	2.49	81.9	5
550.77	553.82	3.05	3.05	100.0	2.73	89.5	5
553.82	556.87	3.05	3.06	100.3	1.42	46.6	5
556.87	559.92	3.05	3.06	100.3	2.23	73.1	5
559.92	562.87	2.95	2.98	101.0	2.08	70.5	5
562.87	566.01	3.14	3.05	97.1	2.20	70.1	5
566.01	569.06	3.05	3.06	100.3	2.36	77.4	5
569.06	572.11	3.05	2.96	97.0	1.59	52.1	5
572.11	575.16	3.05	3.02	99.0	2.36	77.4	5
575.16	578.21	3.05	3.05	100.0	2.63	86.2	5
578.21	581.25	3.04	3.03	99.7	2.35	77.3	5
581.25	584.30	3.05	3.01	98.7	2.67	87.5	5
584.30	587.35	3.05	2.94	96.4	2.54	83.3	4.5
587.35	590.40	3.05	3.05	100.0	1.83	60.0	4.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
590.40	593.45	3.05	3.00	98.4	2.85	93.4	4.5
593.45	596.49	3.04	3.07	101.0	2.24	73.7	4.5
596.49	599.54	3.05	3.04	99.7	2.63	86.2	4.5
599.54	602.59	3.05	3.07	100.7	2.85	93.4	5
602.59	605.64	3.05	3.07	100.7	2.47	81.0	5
605.64	608.69	3.05	3.01	98.7	2.65	86.9	5
608.69	611.73	3.04	3.01	99.0	2.62	86.2	5
611.73	614.78	3.05	3.07	100.7	1.90	62.3	5
614.78	617.83	3.05	3.07	100.7	2.80	91.8	5
617.83	620.88	3.05	3.00	98.4	2.33	76.4	5
620.88	623.93	3.05	2.95	96.7	1.72	56.4	5
623.93	626.97	3.04	2.95	97.0	2.95	97.0	5
E.O.H							

Date: July 7/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-16

Interval (m)			Recovery		RQD		HARDNESS	
From	To	Length	Meters	%	Meters	%		
0.00	6.10	CASING						
6.10	8.23	2.13	1.44	67.6	0.13	9.0	3	
8.23	9.75	1.52	1.50	98.7	0.37	24.7	3	
9.75	11.28	1.53	1.20	78.4	0.17	14.2	3	
11.28	12.80	1.52	1.37	90.1	0.00	0.0	3	
12.80	14.33	1.53	1.32	86.3	0.31	23.5	3	
14.33	15.85	1.52	1.36	89.5	0.26	19.1	3	
15.85	17.37	1.52	1.19	78.3	0.19	16.0	3	
17.37	18.90	1.53	0.89	58.2	0.11	12.4	2	
18.90	20.42	1.52	1.40	92.1	0.00	0.0	3	
20.42	21.95	1.53	1.36	88.9	0.00	0.0	3.5	
21.95	23.47	1.52	1.56	102.6	1.03	66.0	3	
23.47	24.99	1.52	1.36	89.5	0.71	52.2	3.5	
24.99	26.52	1.53	1.54	100.7	0.64	41.6	4	
26.52	28.04	1.52	1.40	92.1	1.10	78.6	3	
28.04	31.09	3.05	2.87	94.1	0.95	33.1	3	
31.09	32.61	1.52	1.40	92.1	0.60	42.9	3	
32.61	33.53	0.92	0.69	75.0	0.69	100.0	3	
33.53	35.66	2.13	2.02	94.8	1.24	61.4	3	
35.66	38.71	3.05	2.99	98.0	1.15	38.5	3	
38.71	41.76	3.05	2.96	97.0	2.34	79.1	3	
41.76	44.81	3.05	2.90	95.1	1.62	55.9	3	
44.81	49.85	5.04	2.90	57.5	1.23	42.4	3	
49.85	50.90	1.05	2.76	262.9	1.24	44.9	2	
50.90	53.95	3.05	2.80	91.8	0.13	4.6	3	
53.95	57.00	3.05	3.00	98.4	1.18	39.3	3.5	
57.00	60.05	3.05	2.98	97.7	1.30	43.6	3.5	
60.05	63.09	3.04	2.96	97.4	1.42	48.0	3.5	
63.09	66.14	3.05	2.75	90.2	0.54	19.6	2	
66.14	69.19	3.05	2.85	93.4	0.28	9.8	3	
69.19	72.24	3.05	2.99	98.0	1.28	42.8	4	
72.24	75.29	3.05	2.80	91.8	0.48	17.1	4	
75.29	78.33	3.04	2.91	95.7	0.82	28.2	4	
78.33	81.38	3.05	3.00	98.4	0.13	4.3	3.5	
81.38	84.43	3.05	3.05	100.0	0.50	16.4	3.5	
84.43	87.48	3.05	2.77	90.8	0.15	5.4	4	
87.48	90.53	3.05	2.17	71.1	0.36	16.6	4	
90.53	93.57	3.04	2.56	84.2	0.45	17.6	4	
93.57	96.62	3.05	2.97	97.4	0.65	21.9	3.5	
96.62	99.67	3.05	2.93	96.1	1.11	37.9	3.5	
99.67	102.72	3.05	2.95	96.7	1.50	50.8	3.5	
102.72	105.77	3.05	2.95	96.7	0.92	31.2	3.5	
105.77	108.81	3.04	3.06	100.7	2.04	66.7	3.5	
108.81	111.86	3.05	3.10	101.6	1.15	37.1	4	
111.86	114.91	3.05	3.04	99.7	0.86	28.3	4	
114.91	117.96	3.05	3.06	100.3	1.39	45.4	4	
117.96	121.01	3.05	2.95	96.7	2.10	71.2	4	
121.01	124.05	3.04	3.02	99.3	1.71	56.6	4	
124.05	127.10	3.05	3.07	100.7	1.53	49.8	3.5	

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
127.10	130.15	3.05	3.04	99.7	1.56	51.3	4
130.15	133.20	3.05	3.01	98.7	1.73	57.5	3
133.20	136.25	3.05	2.98	97.7	1.22	40.9	3.5
136.25	139.29	3.04	3.05	100.3	1.46	47.9	4
139.29	142.34	3.05	2.95	96.7	0.4	13.6	3.5
142.34	145.39	3.05	3.07	100.7	1.7	55.4	4
145.39	148.44	3.05	2.95	96.7	1.48	50.2	3
148.44	151.49	3.05	3.03	99.3	1.72	56.8	3.5
151.49	154.53	3.04	3.00	98.7	2.13	71.0	3.5
154.53	157.58	3.05	3.09	101.3	2.01	65.0	3
157.58	160.63	3.05	3.02	99.0	0.75	24.8	3
160.63	163.68	3.05	2.87	94.1	0.58	20.2	4
163.68	166.73	3.05	3.07	100.7	0.93	30.3	3.5
166.73	169.77	3.04	3.09	101.6	2.2	71.2	3.5
169.77	172.82	3.05	3.03	99.3	1.35	44.6	3.5
172.82	175.87	3.05	3.05	100.0	1.35	44.3	4
175.87	178.92	3.05	2.80	91.8	0.2	7.1	4
178.92	181.97	3.05	3.01	98.7	0.56	18.6	4
181.97	185.01	3.04	2.85	93.8	0.24	8.4	4
185.01	188.06	3.05	3.04	99.7	1.95	64.1	3.5
188.06	191.11	3.05	3.02	99.0	1.3	43.0	3.5
191.11	194.15	3.04	3.03	99.7	1.8	59.4	3.5
194.15	197.21	3.06	2.85	93.1	1.71	60.0	3.5
197.21	200.25	3.04	2.80	92.1	1.65	58.9	3.5
200.25	203.30	3.05	3.01	98.7	1.55	51.5	3.5
203.30	206.35	3.05	2.94	96.4	1.89	64.3	3.5
206.35	209.40	3.05	3.08	101.0	1.7	55.2	3.5
209.4	212.45	3.05	3.06	100.3	1.80	58.8	3
212.45	215.49	3.04	2.91	95.7	2.10	72.2	3
215.49	218.54	3.05	3.07	100.7	2.05	66.8	3
218.54	221.59	3.05	3.07	100.7	2.11	68.7	3.5
221.59	224.64	3.05	3.03	99.3	1.95	64.4	3.5
224.64	227.69	3.05	2.93	96.1	2.03	69.3	4
227.69	230.73	3.04	2.98	98.0	1.86	62.4	4
230.73	233.78	3.05	3.08	101.0	2.27	73.7	4
233.78	236.83	3.05	3.03	99.3	1.84	60.7	4
236.83	239.88	3.05	2.93	96.1	1.83	62.5	3.5
239.88	242.93	3.05	3.15	103.3	2.23	70.8	3
242.93	245.97	3.04	2.94	96.7	2.10	71.4	3.5
245.97	249.02	3.05	3.07	100.7	2.13	69.4	3.5
249.02	252.07	3.05	2.84	93.1	2.16	76.1	4
252.07	255.12	3.05	3.08	101.0	1.30	42.2	3.5
255.12	258.17	3.05	2.86	93.8	0.59	20.6	3
258.17	261.21	3.04	2.98	98.0	2.10	70.5	3
261.21	264.26	3.05	3.07	100.7	1.59	51.8	4
264.26	267.31	3.05	2.87	94.1	1.28	44.6	3
267.31	270.36	3.05	3.07	100.7	1.05	34.2	2
270.36	273.41	3.05	3.03	99.3	1.96	64.7	4
273.41	276.45	3.04	2.97	97.7	1.77	59.6	3.5
276.45	279.50	3.05	2.92	95.7	2.16	74.0	4
279.50	282.55	3.05	2.94	96.4	1.33	45.2	4
282.55	285.60	3.05	3.01	98.7	1.80	59.8	4
285.60	288.65	3.05	2.95	96.7	1.79	60.7	4
288.65	291.69	3.04	2.95	97.0	2.11	71.5	4
291.69	294.74	3.05	2.98	97.7	2.52	84.6	4
294.74	297.79	3.05	2.91	95.4	1.19	40.9	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
297.79	300.84	3.05	3.00	98.4	0.74	24.7	4
300.84	303.89	3.05	3.05	100.0	1.69	55.4	4
303.89	306.93	3.04	2.78	91.4	2.13	76.6	4
306.93	309.98	3.05	2.90	95.1	1.94	66.9	4
309.98	313.03	3.05	3.06	100.3	2.68	87.6	4
313.03	316.08	3.05	2.95	96.7	2.40	81.4	4
316.08	319.13	3.05	2.45	80.3	1.50	61.2	4
319.13	322.17	3.04	3.20	105.3	1.52	47.5	4
322.17	325.22	3.05	2.90	95.1	2.28	78.6	4
325.22	328.27	3.05	3.40	111.5	2.11	62.1	4
328.27	331.32	3.05	2.97	97.4	2.01	67.7	4
331.32	334.37	3.05	3.16	103.6	1.34	42.4	4
334.37	337.41	3.04	2.73	89.8	1.96	71.8	4
337.41	340.46	3.05	2.92	95.7	1.97	67.5	4
340.46	343.51	3.05	3.05	100.0	0.35	11.5	4
343.51	346.56	3.05	2.75	90.2	0.62	22.5	4
346.56	349.61	3.05	1.87	61.3	0.38	20.3	4
349.61	352.65	3.04	3.06	100.7	2.2	71.9	4
352.65	355.70	3.05	2.96	97.0	2.33	78.7	4
355.70	358.75	3.05	3.04	99.7	2.33	76.6	4
358.75	361.80	3.05	2.96	97.0	2.39	80.7	4
361.80	364.85	3.05	3.13	102.6	2.48	79.2	4
364.85	367.89	3.04	2.99	98.4	2.42	80.9	4
367.89	370.94	3.05	2.83	92.8	2.43	85.9	4
370.94	373.99	3.05	3.05	100.0	2.76	90.5	4
373.99	377.04	3.05	2.87	94.1	2.50	87.1	4
377.04	380.09	3.05	3.03	99.3	2.50	82.5	4
380.09	383.13	3.04	3.02	99.3	2.15	71.2	4
383.13	386.18	3.05	3.02	99.0	2.14	70.9	4
386.18	389.23	3.05	3.03	99.3	1.97	65.0	4
389.23	392.28	3.05	3.02	99.0	1.87	61.9	4
392.28	395.33	3.05	2.82	92.5	1.80	63.8	4
395.33	398.37	3.04	2.88	94.7	1.12	38.9	4
398.37	401.42	3.05	1.21	39.7	0.49	40.5	4
401.42	404.47	3.05	3.16	103.6	1.30	41.1	4
404.47	407.52	3.05	3.10	101.6	2.80	90.3	4
407.52	410.57	3.05	3.03	99.3	2.85	94.1	4
410.57	413.61	3.04	3.01	99.0	2.89	96.0	4
413.61	416.66	3.05	2.83	92.8	1.16	41.0	4
416.66	419.71	3.05	2.61	85.6	2.85	109.2	4
419.71	422.76	3.05	3.06	100.3	2.75	89.9	4
422.76	425.81	3.05	3.00	98.4	2.46	82.0	4
425.81	428.87	3.06	3.10	101.3	2.80	90.3	4
428.87	431.90	3.03	2.86	94.4	1.86	65.0	4
431.90	434.95	3.05	3.02	99.0	2.60	86.1	4
434.95	438.00	3.05	2.97	97.4	2.70	90.9	4
438.00	441.05	3.05	2.90	95.1	2.37	81.7	4
441.05	444.09	3.04	2.29	75.3	1.01	44.1	4
444.09	446.53	2.44	2.40	98.4	1.20	50.0	4
446.53	447.14	0.61	0.31	50.8	0.00	0.0	4
447.14	450.19	3.05	3.32	108.9	2.57	77.4	4
450.19	453.24	3.05	3.02	99.0	2.70	89.4	4
453.24	456.29	3.05	3.03	99.3	2.65	87.5	4
456.29	459.33	3.04	2.99	98.4	2.80	93.6	4
459.33	462.38	3.05	3.10	101.6	2.70	87.1	3.5
462.38	465.43	3.05	3.07	100.7	2.76	89.9	3.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
465.43	468.48	3.05	3.03	99.3	2.61	86.1	3.5
468.48	471.53	3.05	3.00	98.4	2.48	82.7	3.5
471.53	474.57	3.04	3.05	100.3	2.23	73.1	3.5
474.57	477.62	3.05	2.75	90.2	2.32	84.4	4
477.62	480.67	3.05	3.07	100.7	2.56	83.4	4
480.67	483.72	3.05	3.04	99.7	2.49	81.9	4
483.72	486.77	3.05	3.09	101.3	2.56	82.8	4
486.77	489.81	3.04	2.96	97.4	1.96	66.2	4
489.81	492.86	3.05	3.08	101.0	2.46	79.9	4
492.86	495.91	3.05	2.88	94.4	2.07	71.9	4
495.91	498.96	3.05	3.05	100.0	2.14	70.2	4
498.96	502.01	3.05	2.77	90.8	2.38	85.9	4
502.01	505.05	3.04	3.30	108.6	2.83	85.8	4
505.05	508.10	3.05	3.14	103.0	2.21	70.4	4
508.10	511.15	3.05	2.60	85.2	1.69	65.0	4
511.15	514.20	3.05	3.12	102.3	2.74	87.8	4
514.20	517.25	3.05	2.72	89.2	2.24	82.4	4
517.25	520.29	3.04	3.35	110.2	2.60	77.6	4
520.29	523.34	3.05	2.55	83.6	1.61	63.1	4
523.34	526.39	3.05	3.42	112.1	2.17	63.5	4
526.39	529.44	3.05	2.72	89.2	0.90	33.1	4
529.44	532.49	3.05	3.27	107.2	2.42	74.0	4
532.49	535.53	3.04	2.68	88.2	2.31	86.2	4.5
535.53	538.58	3.05	3.32	108.9	2.74	82.5	4.5
538.58	541.63	3.05	2.62	85.9	1.79	68.3	4.5
541.63	544.68	3.05	3.35	109.8	2.89	86.3	4
544.68	547.73	3.05	2.83	92.8	2.41	85.2	4
547.73	550.77	3.04	2.90	95.4	1.96	67.6	4
550.77	553.82	3.05	2.99	98.0	1.92	64.2	4
553.82	556.87	3.05	3.15	103.3	1.71	54.3	4
556.87	559.92	3.05	2.72	89.2	0.66	24.3	4
559.92	562.97	3.05	3.07	100.7	1.49	48.5	4
562.97	566.01	3.04	3.00	98.7	2.13	71.0	4
566.01	569.06	3.05	3.06	100.3	0.95	31.0	4
569.06	572.11	3.05	2.99	98.0	2.11	70.6	4.5
572.11	575.16	3.05	3.21	105.2	1.56	48.6	4.5
575.16	581.25	6.09	5.82	95.6	2.67	45.9	4.5
581.25	587.35	6.10	6.03	98.9	3.38	56.1	4.5
587.35	590.40	3.05	2.80	91.8	1.55	55.4	4.5
590.40	596.49	6.09	5.80	95.2	3.09	53.3	4.5
596.49	601.59	5.10	5.70	111.8	3.79	66.5	4.5
601.59	608.69	7.10	5.68	80.0	3.72	65.5	4.5
608.69	614.78	6.09	5.65	92.8	3.52	62.3	4.5
614.78	620.88	6.10	5.60	91.8	3.91	69.8	4.5
620.88	626.97	6.09	5.70	93.6	3.63	63.7	4.5
626.97	633.07	6.10	6.00	98.4	3.76	62.7	4.5
633.07	636.12	3.05	6.05	198.4	4.06	67.1	5
636.12	642.21	6.09	5.69	93.4	3.98	69.9	5
642.21	648.31	6.10	5.64	92.5	3.15	55.9	5

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-16B

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
Note: Previous data (between 648.31m and 724.57m) is unavailable.							
724.57	730.00	5.43	5.17	95.2	2.45	47.4	4
730.00	734.57	4.57	4.42	96.7	2.91	65.8	4
734.57	738.23	3.66	3.40	92.9	0.93	27.4	3
738.23	741.58	3.35	3.15	94.0	1.90	60.3	4
741.58	745.54	3.96	3.88	98.0	2.30	59.3	4
745.54	749.81	4.27	4.02	94.1	2.62	65.2	4
749.81	752.86	3.05	3.01	98.7	0.59	19.6	3
752.86	758.95	6.09	5.78	94.9	1.99	34.4	3
758.95	762.00	3.05	2.81	92.1	1.70	60.5	4
762.00	768.10	6.10	5.75	94.3	3.39	59.0	4
768.10	774.19	6.09	4.52	74.2	1.52	33.6	3
774.19	780.29	6.10	6.05	99.2	3.54	58.5	4
780.29	785.47	5.18	5.09	98.3	4.54	89.2	4
785.47	791.57	6.10	5.80	95.1	2.78	47.9	3
791.57	794.61	3.04	2.89	95.1	0.92	31.8	3
794.61	800.71	6.10	6.02	98.7	1.11	18.4	3
800.71	803.84	3.13	3.13	100.0	1.78	56.9	3

Date: July 11/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-17

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	9.14	CASING					
9.14	10.67	1.53	1.20	78.4	0.00	0.0	4
10.67	12.19	1.52	1.23	80.9	0.00	0.0	4
12.19	13.72	1.53	1.10	71.9	0.00	0.0	4
13.72	15.24	1.52	0.46	30.3	0.00	0.0	4
15.24	16.76	1.52	0.83	54.6	0.00	0.0	4
16.76	18.29	1.53	0.45	29.4	0.00	0.0	4
18.29	19.81	1.52	1.25	82.2	0.00	0.0	4
19.81	21.34	1.53	1.00	65.4	0.00	0.0	4
21.34	22.86	1.52	1.38	90.8	0.00	0.0	4
22.86	24.38	1.52	1.30	85.5	0.00	0.0	4
24.38	25.91	1.53	1.10	71.9	0.00	0.0	4
25.91	27.43	1.52	0.35	23.0	0.00	0.0	4
27.43	28.96	1.53	1.29	84.3	0.00	0.0	4
28.96	30.48	1.52	1.18	77.6	0.00	0.0	3.5
30.48	32.00	1.52	1.42	93.4	0.43	30.3	3.5
32.00	33.52	1.52	1.33	87.5	0.63	47.4	3.5
33.52	35.05	1.53	1.48	96.7	0.25	16.9	3.5
35.05	36.58	1.53	1.42	92.8	0.32	22.5	3.5
36.58	38.10	1.52	1.45	95.4	0.40	27.6	4
38.10	39.62	1.52	1.46	96.1	0.62	42.5	4
39.62	41.15	1.53	1.36	88.9	0.46	33.8	4
41.15	42.67	1.52	1.49	98.0	0.57	38.3	4
42.67	44.20	1.53	1.65	107.8		0.0	4
44.20	45.72	1.52	1.70	111.8	0.00	0.0	4
45.72	48.77	3.05	0.60	19.7	0.00	0.0	4
48.77	51.82	3.05	0.80	26.2	0.00	0.0	4
51.82	54.86	3.04	2.32	76.3	0.00	0.0	4
54.86	57.91	3.05	3.80	124.6	0.00	0.0	4
57.91	60.96	3.05	3.50	114.8	0.00	0.0	4
60.96	64.01	3.05	1.90	62.3	0.00	0.0	4
64.01	67.06	3.05	1.00	32.8	0.00	0.0	3.5
67.06	70.10	3.04	3.00	98.7	0.00	0.0	3
70.10	73.15	3.05	2.05	67.2	0.00	0.0	3.5
73.15	76.20	3.05	0.90	29.5	0.00	0.0	3
76.20	79.25	3.05	1.60	52.5	0.00	0.0	3
79.25	81.38	2.13	0.81	38.0	0.00	0.0	3
81.38	84.43	3.05	0.19	6.2	0.00	0.0	3
84.43	87.48	3.05	0.22	7.2	0.00	0.0	3
87.48	90.53	3.05	0.20	6.6	0.00	0.0	3
90.53	93.57	3.04	0.00	0.0	0.00	0.0	3
93.57	93.88	0.31	0.17	54.8	0.00	0.0	3
93.88	96.62	2.74	0.60	21.9	0.00	0.0	3
96.62	99.67	3.05	0.50	16.4	0.00	0.0	3
99.67	102.72	3.05	2.09	68.5	0.33	15.8	4
102.72	105.77	3.05	2.83	92.8	1.20	42.4	4
105.77	108.81	3.04	3.00	98.7	2.42	80.7	4
108.81	111.86	3.05	2.99	98.0	1.30	43.5	4
111.86	114.91	3.05	3.00	98.4	2.17	72.3	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
114.91	117.96	3.05	2.89	94.8	2.10	72.7	4
117.96	121.01	3.05	2.86	93.8	1.91	66.8	3
121.01	124.05	3.04	2.95	97.0	2.71	91.9	4
124.05	127.10	3.05	3.02	99.0	2.66	88.1	4
127.10	130.15	3.05	3.00	98.4	2.40	80.0	3
130.15	133.20	3.05	2.99	98.0	2.40	80.3	3
133.20	136.25	3.05	3.03	99.3	2.58	85.1	3
136.25	139.29	3.04	3.02	99.3	2.78	92.1	3
139.29	142.34	3.05	3.00	98.4	2.33	77.7	3
142.34	145.39	3.05	3.00	98.4	2.66	88.7	3
145.39	148.44	3.05	2.99	98.0	2.23	74.6	4
148.44	151.49	3.05	3.02	99.0	2.80	92.7	4
151.49	154.53	3.04	3.01	99.0	2.43	80.7	4
154.53	157.58	3.05	3.00	98.4	2.77	92.3	4
157.58	160.63	3.05	2.98	97.7	2.90	97.3	4
160.63	163.68	3.05	2.99	98.0	2.99	100.0	4
163.68	166.73	3.05	2.99	98.0	2.84	95.0	4
166.73	169.77	3.04	3.01	99.0	2.90	96.3	4
169.77	172.82	3.05	2.92	95.7	2.76	94.5	4
172.82	175.87	3.05	3.01	98.7	2.82	93.7	4
175.87	178.92	3.05	2.98	97.7	2.65	88.9	4
178.92	181.97	3.05	2.99	98.0	2.64	88.3	4
181.97	185.01	3.04	2.98	98.0	2.71	90.9	4
185.01	188.06	3.05	3.02	99.0	2.60	86.1	4
188.06	191.11	3.05	2.88	94.4	2.71	94.1	4
191.11	194.16	3.05	3.01	98.7	2.83	94.0	4
194.16	197.21	3.05	3.02	99.0	3.02	100.0	3
197.21	200.25	3.04	2.98	98.0	2.39	80.2	4
200.25	203.30	3.05	3.00	98.4	2.62	87.3	4
203.30	206.35	3.05	3.01	98.7	1.54	51.2	4
206.35	209.40	3.05	3.00	98.4	1.99	66.3	3
209.40	212.45	3.05	2.89	94.8	1.41	48.8	3
212.45	215.49	3.04	3.02	99.3	0.80	26.5	3
215.49	218.54	3.05	3.00	98.4	1.28	42.7	3
218.54	221.59	3.05	2.63	86.2	0.75	28.5	3
221.59	224.64	3.05	2.94	96.4	2.23	75.9	3
224.64	227.69	3.05	2.77	90.8	2.01	72.6	3
227.69	230.73	3.04	2.93	96.4	2.17	74.1	3
230.73	233.78	3.05	2.95	96.7	2.25	76.3	3
233.78	236.83	3.05	2.88	94.4	1.47	51.0	3
236.83	239.88	3.05	2.97	97.4	1.85	62.3	3
239.88	242.93	3.05	2.98	97.7	2.39	80.2	3.5
242.93	245.97	3.04	2.97	97.7	2.64	88.9	4
245.97	249.02	3.05	2.97	97.4	1.95	65.7	4
249.02	252.07	3.05	2.92	95.7	2.09	71.6	4
252.07	255.12	3.05	2.77	90.8	1.63	58.8	4
255.12	258.17	3.05	2.99	98.0	1.45	48.5	4
258.17	261.21	3.04	2.86	94.1	1.79	62.6	3.5
261.21	264.26	3.05	2.97	97.4	1.68	56.6	4
264.26	267.31	3.05	3.02	99.0	2.64	87.4	4
267.31	270.36	3.05	2.91	95.4	1.15	39.5	3.5
270.36	273.41	3.05	2.86	93.8	0.66	23.1	3.5
273.41	276.45	3.04	2.54	83.6	0.80	31.5	3.5
276.45	279.50	3.05	2.88	94.4	1.54	53.5	4
279.50	282.85	3.35	3.00	89.6	2.02	67.3	4
282.85	285.60	2.75	3.00	109.1	2.35	78.3	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
285.60	288.65	3.05	2.92	95.7	2.54	87.0	4
288.65	291.69	3.04	3.01	99.0	2.16	71.8	4
291.69	294.74	3.05	3.00	98.4	1.63	54.3	4
294.74	297.79	3.05	3.01	98.7	2.53	84.1	4
297.79	300.84	3.05	3.02	99.0	1.66	55.0	3.5
300.84	303.89	3.05	3.03	99.3	1.76	58.1	3.5
303.89	306.93	3.04	3.03	99.7	2.38	78.5	4
306.93	309.98	3.05	3.03	99.3	1.80	59.4	4
309.98	313.03	3.05	2.73	89.5	2.30	84.2	4
313.03	316.08	3.05	3.00	98.4	1.59	53.0	4
316.08	319.13	3.05	2.99	98.0	2.35	78.6	4
319.13	322.17	3.04	2.95	97.0	2.28	77.3	3.5
322.17	325.22	3.05	2.89	94.8	2.07	71.6	4
325.22	328.27	3.05	2.97	97.4	1.63	54.9	4
328.27	331.32	3.05	2.94	96.4	1.41	48.0	4
331.32	334.37	3.05	3.03	99.3	1.58	52.1	4
334.37	337.41	3.04	3.01	99.0	1.20	39.9	3.5
337.41	340.46	3.05	2.94	96.4	2.33	79.3	4
340.46	343.51	3.05	2.84	93.1	1.45	51.1	4
343.51	346.56	3.05	3.03	99.3	2.31	76.2	4
346.56	349.61	3.05	2.82	92.5	0.69	24.5	3.5
349.61	352.65	3.04	2.98	98.0	0.37	12.4	3
352.65	355.70	3.05	2.84	93.1	0.87	30.6	3
355.70	358.75	3.05	2.63	86.2	0.33	12.5	3
358.75	361.80	3.05	2.69	88.2	0.52	19.3	3
361.80	364.85	3.05	2.96	97.0	1.88	63.5	3.5
364.85	367.89	3.04	2.91	95.7	1.78	61.2	3.5
367.89	370.94	3.05	2.90	95.1	1.71	59.0	4
370.94	373.99	3.05	2.94	96.4	1.40	47.6	4
373.99	377.04	3.05	3.00	98.4	1.75	58.3	4
377.04	380.09	3.05	2.95	96.7	1.60	54.2	4
380.09	383.13	3.04	3.01	99.0	2.95	98.0	4
383.13	386.18	3.05	3.03	99.3	2.75	90.8	4
386.18	389.23	3.05	3.00	98.4	2.60	86.7	4
389.23	392.28	3.05	3.01	98.7	2.64	87.7	4
392.28	395.33	3.05	3.02	99.0	2.56	84.8	4
395.33	398.37	3.04		0.0			4
398.37	401.42	3.05	3.02	99.0	1.82	60.3	4
401.42	404.47	3.05	2.98	97.7	2.34	78.5	4
404.47	407.52	3.05	3.00	98.4	2.19	73.0	4
407.52	410.57	3.05	3.03	99.3	2.44	80.5	4
410.57	413.61	3.04	3.02	99.3	1.73	57.3	4
413.61	416.66	3.05	3.02	99.0	1.50	49.7	4
416.66	419.71	3.05	3.03	99.3	1.51	49.8	3.5
419.71	422.76	3.05	3.00	98.4	1.00	33.3	3.5
422.76	425.81	3.05	2.98	97.7	1.02	34.2	3.5
425.81	428.85	3.04	2.97	97.7	1.12	37.7	3.5
428.85	431.90	3.05	2.90	95.1	0.44	15.2	3
431.90	434.95	3.05	2.93	96.1	0.13	4.4	3
434.95	438.00	3.05	2.85	93.4	0.56	19.6	3.5
438.00	441.05	3.05	2.99	98.0	1.50	50.2	4
441.05	444.09	3.04	3.02	99.3	2.33	77.2	3.5
444.09	447.14	3.05	3.00	98.4	1.59	53.0	4
447.14	450.19	3.05	3.01	98.7	1.47	48.8	4
450.19	453.24	3.05	2.97	97.4	1.72	57.9	4
453.24	456.29	3.05	3.00	98.4	1.46	48.7	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
456.29	459.33	3.04	2.95	97.0	1.65	55.9	4
459.33	462.38	3.05	2.98	97.7	1.59	53.4	4
462.38	465.43	3.05	3.01	98.7	1.56	51.8	3.5
465.43	468.48	3.05	2.91	95.4	1.16	39.9	4
468.48	471.53	3.05	3.01	98.7	1.92	63.8	4
471.53	474.57	3.04	2.92	96.1	1.98	67.8	4
474.57	477.62	3.05	3.03	99.3	0.77	25.4	4
477.62	480.67	3.05	2.94	96.4	1.26	42.9	4
480.67	483.72	3.05	3.00	98.4	1.86	62.0	4
483.72	486.77	3.05	3.03	99.3	1.74	57.4	4
486.77	489.81	3.04	2.99	98.4	1.15	38.5	4
489.81	492.86	3.05	2.95	96.7	1.05	35.6	4
492.86	495.91	3.05	2.98	97.7	1.98	66.4	4
495.91	498.96	3.05	2.94	96.4	1.36	46.3	4
498.96	502.01	3.05	3.00	98.4	2.23	74.3	4
502.01	505.05	3.04	2.97	97.7	1.68	56.6	4
505.05	508.10	3.05	2.93	96.1	1.26	43.0	4
508.10	511.15	3.05	3.00	98.4	2.51	83.7	4
511.15	514.20	3.05	2.91	95.4	1.51	51.9	4
514.20	517.25	3.05	2.99	98.0	1.81	60.5	4
517.25	520.29	3.04	3.01	99.0	2.14	71.1	4
520.29	523.34	3.05	3.00	98.4	1.75	58.3	4
523.34	526.39	3.05	2.94	96.4	1.89	64.3	4
526.39	529.44	3.05	2.97	97.4	1.80	60.6	4
529.44	532.49	3.05	3.01	98.7	2.11	70.1	4
532.49	535.53	3.04	3.02	99.3	2.48	82.1	4
535.53	538.58	3.05	3.03	99.3	2.94	97.0	4
538.58	541.63	3.05	3.01	98.7	2.73	90.7	4
541.63	544.68	3.05	2.97	97.4	2.57	86.5	4
544.68	550.77	6.09	3.00	49.3	1.70	56.7	4
550.77	553.82	3.05	3.03	99.3	2.27	74.9	4
553.82	556.87	3.05	3.11	102.0	2.54	81.7	4
556.87	559.92	3.05	3.10	101.6	2.87	92.6	4
559.92	562.97	3.05	2.99	98.0	2.66	89.0	4
562.97	566.01	3.04	3.13	103.0	2.52	80.5	4
566.01	569.06	3.05	3.02	99.0	2.62	86.8	4
569.06	572.11	3.05	3.04	99.7	2.48	81.6	4
572.11	575.16	3.05	3.09	101.3	2.33	75.4	4
575.16	578.21	3.05	3.13	102.6	2.43	77.6	4
578.21	581.25	3.04	3.09	101.6	1.03	33.3	4
581.25	584.30	3.05	3.08	101.0	2.19	71.1	4
584.30	587.65	3.35	3.05	91.0	1.34	43.9	4
587.65	590.70	3.05	3.06	100.3	1.66	54.2	4
590.70	593.45	2.75	3.06	111.3	2.41	78.8	4
593.45	596.49	3.04	3.08	101.3	1.84	59.7	4
596.49	599.54	3.05	3.01	98.7	1.58	52.5	4
599.54	602.59	3.05	3.08	101.0	1.24	40.3	4
602.59	605.64	3.05	2.97	97.4	1.31	44.1	4
605.64	608.69	3.05	3.07	100.7	1.80	58.6	4
608.69	611.73	3.04	3.00	98.7	1.02	34.0	3.5
611.73	614.78	3.05	3.00	98.4	1.70	56.7	4
614.78	617.83	3.05	3.03	99.3	1.81	59.7	4
617.83	620.88	3.05	2.98	97.7	2.17	72.8	4
620.88	623.93	3.05	3.03	99.3	1.74	57.4	4
623.93	626.97	3.04	3.08	101.3	1.99	64.6	3.5
626.97	630.02	3.05	3.03	99.3	2.02	66.7	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
630.02	633.07	3.05	3.02	99.0	1.61	53.3	4
633.07	636.13	3.06	3.06	100.0	2.16	70.6	4
636.13	639.17	3.04	3.05	100.3	2.43	79.7	4
639.17	642.21	3.04	3.05	100.3	2.76	90.5	4
642.21	645.26	3.05	3.02	99.0	3.02	100.0	4
645.26	648.31	3.05	2.98	97.7	2.80	94.0	4
648.31	651.36	3.05	3.09	101.3	3.03	98.1	4
651.36	654.41	3.05	2.99	98.0	2.60	87.0	4
654.41	657.45	3.04	3.00	98.7	2.25	75.0	4
657.45	660.51	3.06	2.99	97.7	1.88	62.9	4
660.51	663.55	3.04	3.02	99.3	2.20	72.8	4
663.55	666.60	3.05	3.03	99.3	2.95	97.4	4
666.60	669.65	3.05	3.00	98.4	1.07	35.7	4
669.65	672.69	3.04	2.99	98.4	2.70	90.3	4
672.69	675.74	3.05	3.05	100.0	2.91	95.4	4
675.74	678.79	3.05	3.06	100.3	2.62	85.6	4
678.79	681.84	3.05	3.19	104.6	1.55	48.6	4
681.84	684.89	3.05	3.06	100.3	0.77	25.2	3
684.89	687.93	3.04	3.12	102.6	1.30	41.7	3
687.93	690.98	3.05	3.04	99.7	0.90	29.6	3
690.98	694.03	3.05	3.00	98.4	1.09	36.3	3
694.03	697.08	3.05	3.00	98.4	1.09	36.3	3
697.08	700.13	3.05	3.13	102.6	1.42	45.4	3
E.O.H.							

Date: July 13/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-18

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.66	CASING					
3.66	5.18	1.52	1.56	102.6	0.61	39.1	3
5.18	6.71	1.53	1.60	104.6	0.00	0.0	2
6.71	8.23	1.52	1.67	109.9	0.67	40.1	3
8.23	11.28	3.05	3.52	115.4	1.14	32.4	3
11.28	14.33	3.05	3.02	99.0	0.72	23.8	2
14.33	15.85	1.52	1.37	90.1	0.38	27.7	3
15.85	17.37	1.52	0.95	62.5	0.34	35.8	2
17.37	20.42	3.05	0.05	1.6	0.00	0.0	3
20.42	21.95	1.53	0.54	35.3	0.22	40.7	3
21.95	23.47	1.52	2.80	184.2	1.07	38.2	3
23.47	24.99	1.52	0.20	13.2	0.00	0.0	2
24.99	26.52	1.53	1.19	77.8	0.66	55.5	3
26.52	28.04	1.52	0.22	14.5	0.00	0.0	2
28.04	29.57	1.53	1.61	105.2	0.10	6.2	2
29.57	31.09	1.52	1.44	94.7	0.26	18.1	2
31.09	32.61	1.52	1.25	82.2	0.00	0.0	2
32.61	34.14	1.53	1.40	91.5	0.00	0.0	2
34.14	35.66	1.52	1.61	105.9	0.00	0.0	2
35.66	37.19	1.53	0.78	51.0	0.00	0.0	2
37.19	38.71	1.52	0.29	19.1	0.00	0.0	2
38.71	40.23	1.52	0.56	36.8	0.00	0.0	2
40.23	41.26	1.03	0.41	39.8	0.00	0.0	2
41.26	43.28	2.02	0.27	13.4	0.00	0.0	2
43.28	46.33	3.05	0.01	0.3	0.00	0.0	2
46.33	47.85	1.52	1.54	101.3	0.00	0.0	2
47.85	50.90	3.05	1.23	40.3	0.00	0.0	2
50.90	52.43	1.53	0.00	0.00	0.00	0.0	2
52.43	53.95	1.52	0.00	0.00	0.00	0.0	2
53.95	55.47	1.52	0.49	32.2	0.00	0.0	2
55.47	57.00	1.53	0.47	30.7	0.00	0.0	2
57.00	58.52	1.52	0.62	40.8	0.00	0.0	2
58.52	60.05	1.53	1.97	128.8	0.26	13.2	2
60.05	61.57	1.52	1.45	95.4	0.00	0.0	2
61.57	63.09	1.52	1.74	114.5	0.00	0.0	2
63.09	64.62	1.53	1.70	111.1	0.00	0.0	2
64.62	66.14	1.52	1.29	84.9	0.00	0.0	2
66.14	67.67	1.53	1.82	119.0	0.00	0.0	2
67.67	69.19	1.52	0.87	57.2	0.00	0.0	2
69.19	70.71	1.52	0.95	62.5	0.00	0.0	2
70.71	72.24	1.53	1.32	86.3	0.00	0.0	2
72.24	73.76	1.52	1.64	107.9	0.00	0.0	2
73.76	75.29	1.53	1.81	118.3	0.00	0.0	2
75.29	76.81	1.52	1.18	77.6	0.00	0.0	2
76.81	78.33	1.52	1.62	106.6	0.00	0.0	2
78.33	79.86	1.53	1.57	102.6	0.00	0.0	2
79.86	81.38	1.52	1.77	116.4	0.00	0.0	2
81.38	82.91	1.53	0.49	32.0	0.00	0.0	2
82.91	84.42	1.51	0.00	0.0	0.00	0.0	2

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
84.42	85.95	1.53	1.32	86.3	0.92	69.7	3
85.95	87.48	1.53	1.41	92.2	1.30	92.2	3
87.48	88.39	0.91	0.89	97.8	0.89	100.0	3
88.39	90.53	2.14	2.01	93.9	1.44	71.6	4
90.53	93.57	3.04	3.02	99.3	2.80	92.7	4
93.57	96.62	3.05	3.03	99.3	3.03	100.0	4
96.62	99.67	3.05	2.96	97.0	2.75	92.9	4
99.67	102.72	3.05	3.03	99.3	2.62	86.5	4
102.72	105.77	3.05	2.99	98.0	2.39	79.9	4
105.77	108.81	3.04	3.04	100.0	3.04	100.0	4
108.81	111.86	3.05	3.03	99.3	2.83	93.4	4
111.86	114.91	3.05	3.04	99.7	2.83	93.1	4
114.91	117.96	3.05	3.00	98.4	2.92	97.3	4
117.96	121.01	3.05	3.03	99.3	2.67	88.1	4
121.01	124.05	3.04	3.02	99.3	2.93	97.0	4
124.05	127.10	3.05	3.04	99.7	2.87	94.4	4
127.10	130.15	3.05	2.97	97.4	2.69	90.6	4
130.15	133.20	3.05	2.98	97.7	2.98	100.0	4
133.20	136.25	3.05	3.03	99.3	2.83	93.4	4
136.25	139.29	3.04	3.04	100.0	2.97	97.7	4
139.29	142.34	3.05	3.02	99.0	2.74	90.7	4
142.34	145.39	3.05	3.03	99.3	2.85	94.1	4
145.39	148.44	3.05	3.02	99.0	2.89	95.7	4
148.44	151.49	3.05	3.03	99.3	3.03	100.0	4
151.49	154.53	3.04	2.97	97.7	2.75	92.6	4
154.53	157.58	3.05	2.87	94.1	2.80	97.6	4
157.58	160.63	3.05	2.93	96.1	2.84	96.9	4
160.63	163.68	3.05	3.04	99.7	2.93	96.4	4
163.68	166.73	3.05	2.99	98.0	2.90	97.0	4
166.73	169.77	3.04	2.98	98.0	2.92	98.0	4
169.77	172.82	3.05	2.99	98.0	2.73	91.3	4
172.82	175.87	3.05	3.01	98.7	2.78	92.4	4
175.87	178.92	3.05	3.03	99.3	2.96	97.7	4
178.92	181.97	3.05	3.02	99.0	2.79	92.4	4
181.97	185.01	3.04	3.00	98.7	2.87	95.7	4
185.01	188.06	3.05	2.99	98.0	2.90	97.0	4
188.06	191.11	3.05	3.02	99.0	2.91	96.4	4
191.11	194.16	3.05	3.00	98.4	2.95	98.3	4
194.16	197.21	3.05	2.83	92.8	2.65	93.6	4
197.21	200.25	3.04	3.04	100.0	2.84	93.4	4
200.25	203.30	3.05	2.87	94.1	2.58	89.9	4
203.30	209.40	6.10	6.02	98.7	5.80	96.3	4
209.40	215.49	6.09	6.04	99.2	5.91	97.8	4
215.49	221.59	6.10	6.05	99.2	5.73	94.7	4
221.59	227.67	6.08	6.08	100.0	5.78	95.1	4
227.67	233.78	6.11	6.08	99.5	5.61	92.3	4
233.78	239.88	6.10	5.98	98.0	3.57	59.7	4
239.88	245.97	6.09	6.08	99.8	1.31	21.5	3
245.97	252.07	6.10	5.77	94.6	1.30	22.5	3
252.07	253.90	1.83	1.45	79.2	0.00	0.0	3
253.90	255.12	1.22	1.20	98.4	0.16	13.3	3
255.12	258.17	3.05	2.24	73.4	0.39	17.4	3
258.17	261.21	3.04	2.98	98.0	1.10	36.9	3
261.21	264.26	3.05	3.05	100.0	0.23	7.5	3
264.26	266.70	2.44	2.38	97.5	0.00	0.0	3
266.70	268.83	2.13	1.95	91.5	0.20	10.3	3

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
268.83	270.36	1.53	1.44	94.1	0.40	27.8	3
270.36	273.41	3.05	2.80	91.8	0.34	12.1	3
273.41	276.45	3.04	3.10	102.0	0.30	9.7	3
276.45	279.50	3.05	2.90	95.1	0.88	30.3	4
279.50	282.55	3.05	2.81	92.1	1.07	38.1	3
282.55	285.60	3.05	2.84	93.1	0.44	15.5	4
285.60	288.65	3.05	3.10	101.6	2.36	76.1	4
288.65	291.69	3.04	3.20	105.3	3.20	100.0	4
291.69	297.79	6.10	6.20	101.6	5.82	93.9	4
297.79	303.89	6.10	6.03	98.9	5.22	86.6	4
303.89	307.54	3.65	3.67	100.5	1.61	43.9	3
307.54	313.03	5.49	5.52	100.5	2.11	38.2	3
313.03	319.13	6.10	5.90	96.7	3.20	54.2	3
319.13	325.22	6.09	6.15	101.0	1.92	31.2	4
325.22	328.57	3.35	3.30	98.5	0.94	28.5	4
328.57	334.37	5.80	5.97	102.9	5.20	87.1	4
334.37	340.46	6.09	6.20	101.8	3.08	49.7	3
340.46	346.56	6.10	6.07	99.5	4.02	66.2	3
346.56	349.91	3.35	3.12	93.1	1.03	33.0	3
349.91	355.70	5.79	5.88	101.6	4.52	76.9	4
355.70	361.80	6.10	6.10	100.0	4.12	67.5	4
361.80	367.89	6.09	6.28	103.1	4.24	67.5	3
367.89	373.99	6.10	5.91	96.9	4.52	76.5	3
373.99	380.09	6.10	5.73	93.9	1.46	25.5	3
380.09	383.13	3.04	3.07	101.0	2.81	91.5	4
383.13	389.23	6.10	5.70	93.4	3.73	65.4	4
389.23	392.28	3.05	3.47	113.8	2.73	78.7	4
392.28	398.37	6.09	6.11	100.3	3.80	62.2	3
398.37	404.47	6.10	6.01	98.5	4.83	80.4	4
404.47	410.57	6.10	5.87	96.2	4.84	82.5	4
410.57	416.66	6.09	5.89	96.7	3.16	53.7	4
416.66	422.76	6.10	6.20	101.6	3.67	59.2	5
422.76	428.85	6.09	6.43	105.6	2.28	35.5	5
428.85	434.95	6.10	5.96	97.7	2.87	48.2	5
434.95	441.05	6.10	5.92	97.0	3.24	54.7	5
441.05	447.14	6.09	5.98	98.2	4.31	72.1	5
447.14	453.24	6.10	6.07	99.5	2.20	36.2	5
453.24	459.33	6.09	5.58	91.6	1.86	33.3	5
459.33	465.43	6.10	5.88	96.4	1.72	29.3	5
465.43	471.53	6.10	5.94	97.4	3.93	66.2	5
471.53	475.49	3.96	3.92	99.0	1.63	41.6	4
475.49	480.67	5.18	4.96	95.8	1.83	36.9	4
480.67	486.77	6.10	5.86	96.1	3.44	58.7	4
486.77	492.86	6.09	6.10	100.2	4.24	69.5	4
492.86	498.96	6.10	5.96	97.7	4.26	71.5	4
498.96	505.85	6.89	6.06	88.0	4.08	67.3	4
505.85	511.15	5.30	6.10	115.1	3.73	61.1	4
511.15	517.25	6.10	5.90	96.7	4.99	84.6	4
517.25	520.29	3.04	2.73	89.8	1.07	39.2	4
520.29	526.39	6.10	6.10	100.0	3.17	52.0	4
526.39	532.49	6.10	4.20	68.9	1.90	45.2	4
532.49	538.58	6.09	4.53	74.4	1.59	35.1	4
538.58	544.68	6.10	4.99	81.8	0.83	16.6	4
544.68	550.77	6.09	5.87	96.4	1.21	20.6	4
550.77	556.87	6.10					4
556.87	560.83	3.96	4.35	109.8	0.80	18.4	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
560.83	566.01	5.18	5.26	101.5	2.94	55.9	4
566.01	572.11	6.10	6.16	101.0	2.83	45.9	4
572.11	578.21	6.10	5.92	97.0	4.10	69.3	4
578.21	582.47	4.26	4.64	108.9	1.73	37.3	4
582.47	585.83	3.36	3.39	100.9	1.17	34.5	4
585.83	590.40	4.57	4.28	93.7	1.36	31.8	4
590.40	593.45	3.05	3.32	108.9	1.64	49.4	4
593.45	599.54	6.09	6.64	109.0	3.90	58.7	4
599.54	605.64	6.10	5.67	93.0	1.83	32.3	4
605.64	608.69	3.05	3.78	123.9	1.34	35.4	4
608.69	614.78	6.09	1.10	18.1	0.25	22.7	4
614.78	618.44	3.66	3.24	88.5	1.50	46.3	4
618.44	623.93	5.49	5.93	108.0	1.06	17.9	4
623.93	630.02	6.09	6.49	106.6	1.86	28.7	4
630.02	636.12	6.10	6.42	105.2	2.11	32.9	4
636.12	642.21	6.09	6.45	105.9	0.21	3.3	4
642.21	648.31	6.10	6.09	99.8	1.32	21.7	4
648.31	651.36	3.05	3.55	116.4	0.70	19.7	4
651.36	657.45	6.09	6.38	104.8	1.33	20.8	4
657.45	663.55	6.10	5.71	93.6	3.00	52.5	4
663.55	669.65	6.10	6.12	100.3	2.84	46.4	4
669.65	675.74	6.09	6.29	103.3	1.97	31.3	4
675.74	681.84	6.10	6.68	109.5	2.41	36.1	4
681.84	687.93	6.09	6.04	99.2	1.43	23.7	4
687.93	690.98	3.05	3.04	99.7	0.91	29.9	4
690.98	694.03	3.05	3.32	108.9	1.45	43.7	4
694.03	700.13	6.10	6.33	103.8	2.04	32.2	4
700.13	706.22	6.09	7.14	117.2	2.18	30.5	4
706.22	712.32	6.10	6.50	106.6	0.47	7.2	4
712.32	718.41	6.09	6.18	101.5	1.59	25.7	4
718.41	724.51	6.10	6.70	109.8	1.42	21.2	4
724.51	730.61	6.10	6.18	101.3	3.27	52.9	4
730.61	736.70	6.09	6.53	107.2	1.81	27.7	4

E.O.H.

Date: July 4/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-19

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	1.52	1.52	1.00	65.79	0.00	0.00	4
1.52	3.28	1.76	1.40	79.55	0.25	14.20	4
3.28	4.53	1.25	1.40	112.00	0.00	0.00	4
4.53	6.10	1.57	0.85	54.14	0.12	7.64	4
6.10	7.62	1.52	1.45	95.39	0.35	23.03	4
7.62	9.14	1.52	1.35	88.82	0.40	26.32	4
9.14	12.19	3.05	0.15	4.92	0.00	0.00	4
12.19	13.72	1.53	0.35	22.88	0.00	0.00	4
13.72	15.24	1.52	0.10	6.58	0.00	0.00	4
15.24	18.29	3.05	0.30	9.84	0.00	0.00	4
18.29	19.81	1.52	0.80	52.63	0.12	7.89	4
19.81	21.34	1.53	1.00	65.36	0.12	7.84	4
21.34	22.86	1.52	1.50	98.68	0.50	32.89	4
22.86	24.38	1.52	1.40	92.11	0.53	34.87	4
24.38	27.43	3.05	2.75	90.16	0.21	6.89	4
27.43	30.48	3.05	1.65	54.10	0.15	4.92	4
30.48	33.53	3.05	2.55	83.61	0.60	19.67	4
33.53	36.58	3.05	2.80	91.80	0.22	7.21	4
36.58	38.10	1.52	1.35	88.82	0.18	11.84	4
38.10	39.62	1.52	1.20	78.95	0.00	0.00	4
39.62	42.67	3.05	0.75	24.59	0.00	0.00	4
42.67	45.72	3.05	2.30	75.41	0.27	8.85	4
45.72	48.77	3.05	2.80	91.80	0.55	18.03	4
48.77	51.82	3.05	2.30	75.41	0.30	9.84	4
51.82	54.86	3.04	2.90	95.39	1.03	33.88	4
54.86	57.91	3.05	3.00	98.36	1.15	37.70	4
57.91	60.96	3.05	2.75	90.16	0.68	22.30	4
60.96	64.01	3.05	2.35	77.05	0.63	20.66	4
64.01	67.06	3.05	1.40	45.90	0.11	3.61	4
67.06	70.10	3.04	1.85	60.86	0.56	18.42	4
70.10	73.15	3.05	2.75	90.16	0.43	14.10	4
73.15	76.20	3.05	2.60	85.25	0.66	21.64	4
76.20	79.25	3.05	2.95	96.72	0.70	22.95	4
79.25	82.30	3.05	2.60	85.25	0.55	18.03	4
82.30	85.34	3.04	1.95	64.14	0.00	0.00	4
85.34	88.39	3.05	3.00	98.36	1.02	33.44	4
88.39	91.44	3.05	2.85	93.44	0.34	11.15	4
91.44	94.49	3.05	3.00	98.36	0.84	27.54	4
94.49	97.54	3.05	2.95	96.72	0.85	27.87	4
97.54	100.58	3.04	3.10	101.97	0.95	31.25	4
100.58	103.63	3.05	3.00	98.36	0.82	26.89	4
103.63	106.68	3.05	3.02	99.02	0.55	18.03	4
106.68	109.73	3.05	3.03	99.34	1.05	34.43	4
109.73	112.78	3.05	3.03	99.34	1.24	40.66	4
112.78	115.82	3.04	2.97	97.70	1.10	36.18	4
115.82	118.87	3.05	3.04	99.67	1.00	32.79	4
118.87	121.92	3.05	2.83	92.89	1.12	36.72	4
121.92	124.97	3.05	3.02	99.02	0.36	11.80	4
124.97	128.02	3.05	2.96	97.05	0.18	5.90	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
128.02	131.06	3.04	3.04	100.00	0.84	27.63	4
131.06	134.11	3.05	3.03	99.34	1.30	42.62	4
134.11	137.16	3.05	2.97	97.38	0.20	6.56	4
137.16	140.21	3.05	3.02	99.02	0.53	17.38	4
140.21	143.26	3.05	3.04	99.67	1.97	64.59	4
143.26	146.30	3.04	3.01	99.01	0.81	26.64	4
146.30	149.35	3.05	2.97	97.38	0.92	30.16	4
149.35	152.40	3.05	3.03	99.34	1.09	35.74	4
152.40	155.45	3.05	3.03	99.34	0.66	21.64	4
155.45	158.50	3.05	3.02	99.02	0.95	31.15	4
158.50	161.54	3.04	3.03	99.67	0.89	29.28	4
161.54	164.59	3.05	3.04	99.67	1.10	36.07	4
164.59	167.64	3.05	3.03	99.34	1.35	44.26	4
167.64	170.69	3.05	2.99	98.03	1.06	34.75	4
170.69	173.74	3.05	3.02	99.02	1.52	49.84	4
173.74	176.78	3.04	2.98	98.03	0.68	22.37	4
176.78	179.83	3.05	3.01	98.69	1.78	58.36	4
179.83	182.88	3.05	3.03	99.34	1.73	56.72	4
182.88	185.93	3.05	3.03	99.34	1.53	50.16	4
185.93	188.98	3.05	2.93	96.07	0.98	32.13	4
188.98	192.02	3.04	2.87	94.41	1.37	45.07	4
192.02	195.07	3.05	2.86	93.77	1.70	55.74	4
195.07	198.12	3.05	2.80	91.80	1.64	53.77	4
198.12	201.17	3.05	2.85	93.44	1.68	55.08	4
201.17	204.22	3.05	2.89	94.75	1.04	34.10	4
204.22	207.26	3.04	2.99	98.36	0.81	26.64	4
207.26	210.31	3.05	3.00	98.36	1.34	43.93	4
210.31	213.36	3.05	2.93	96.07	0.70	22.95	4
213.36	216.41	3.05	2.87	94.10	1.93	63.28	4
216.41	219.46	3.05	2.61	85.57	0.75	24.59	4
219.46	222.50	3.04	3.00	98.68	0.14	4.61	4
222.50	225.55	3.05	2.96	97.05	1.76	57.70	4
225.55	228.60	3.05	2.94	96.39	0.97	31.80	4
228.60	231.65	3.05	2.94	96.39	1.30	42.62	4
231.65	234.70	3.05	2.73	89.51	1.23	40.33	4
234.70	237.74	3.04	2.83	93.09	0.81	26.64	4
237.74	240.79	3.05	2.94	96.39	1.49	48.85	4
240.79	243.84	3.05	2.92	95.74	1.13	37.05	4
243.84	246.89	3.05	3.02	99.02	1.35	44.26	4
246.89	249.94	3.05	2.85	93.44	1.32	43.28	4
249.94	252.98	3.04	2.98	98.03	1.10	36.18	4
252.98	256.03	3.05	2.99	98.03	1.17	38.36	4
256.03	259.08	3.05	3.07	100.66	2.18	71.48	4
259.08	262.13	3.05	3.01	98.69	1.06	34.75	4
262.13	265.18	3.05	2.85	93.44	0.54	17.70	4
265.18	268.22	3.04	3.06	100.66	1.59	52.30	4
268.22	271.27	3.05	2.95	96.72	1.18	38.69	4
271.27	274.32	3.05	2.94	96.39	1.41	46.23	4
274.32	277.37	3.05	2.78	91.15	1.00	32.79	4
277.37	280.42	3.05	2.95	96.72	0.58	19.02	4
280.42	283.46	3.04	2.91	95.72	0.38	12.50	4
283.46	286.51	3.05	2.81	92.13	0.79	25.90	4
286.51	292.61	6.10	3.06	50.16	0.87	14.26	4
292.61	295.66	3.05	3.07	100.66	1.98	64.92	4
295.66	298.70	3.04	2.94	96.71	2.05	67.43	4
298.70	301.75	3.05	2.93	96.07	2.18	71.48	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
301.75	304.80	3.05	3.02	99.02	1.16	38.03	4
304.80	307.85	3.05	2.71	88.85	1.57	51.48	4
307.85	310.90	3.05	2.93	96.07	2.00	65.57	4
310.90	313.94	3.04	3.05	100.33	2.12	69.74	4
313.94	316.99	3.05	2.91	95.41	2.44	80.00	4
316.99	320.04	3.05	2.97	97.38	1.56	51.15	4
320.04	323.09	3.05	2.85	93.44	0.57	18.69	4
323.09	326.14	3.05	2.93	96.07	1.10	36.07	4
326.14	329.18	3.04	2.98	98.03	1.64	53.95	4
329.18	332.23	3.05	3.01	98.69	2.18	71.48	4
332.23	335.28	3.05	2.74	89.84	1.87	61.31	4
335.28	338.33	3.05	2.86	93.77	1.63	53.44	4
338.33	341.38	3.05	3.05	100.00	2.10	68.85	4
341.38	344.42	3.04	2.80	92.11	1.91	62.83	4
344.42	347.47	3.05	2.98	97.70	1.58	51.80	4
347.47	350.52	3.05	2.95	96.72	2.51	82.30	4
350.52	353.57	3.05	2.91	95.41	2.41	79.02	4
353.57	356.62	3.05	2.91	95.41	1.37	44.92	4
356.62	359.66	3.04	2.88	94.74	1.46	48.03	4
359.66	362.71	3.05	2.68	87.87	1.02	33.44	4
362.71	365.76	3.05	2.86	93.77	0.42	13.77	4
365.76	368.81	3.05	2.83	92.79	1.29	42.30	4
368.81	371.86	3.05	2.76	90.49	1.57	51.48	4
371.86	374.90	3.04	2.88	94.74	0.65	21.38	4
374.90	377.95	3.05	2.78	91.15	1.75	57.38	4
377.95	381.00	3.05	2.80	91.80	1.33	43.61	4
381.00	384.05	3.05	3.05	100.00	1.48	48.52	4
384.05	387.10	3.05	2.98	97.70	1.46	47.87	4
387.10	390.14	3.04	2.66	87.50	0.37	12.17	4
390.14	393.19	3.05	2.82	92.46	0.39	12.79	4
393.19	396.24	3.05	2.89	94.75	2.16	70.82	4
396.24	399.29	3.05	2.87	94.10	1.14	37.38	4
399.29	402.34	3.05	2.98	97.70	1.16	38.03	4
402.34	405.38	3.04	2.87	94.41	1.51	49.67	4
405.38	408.43	3.05	2.86	93.77	0.56	18.36	4
408.43	411.48	3.05	3.02	99.02	1.52	49.84	4
411.48	414.53	3.05	2.92	95.74	1.53	50.16	4
414.53	417.58	3.05	3.06	100.33	1.39	45.57	4
417.58	420.62	3.04	3.02	99.34	1.35	44.41	3.5
420.62	423.67	3.05	2.98	97.70	1.43	46.89	4
423.67	426.72	3.05	2.85	93.44	0.79	25.90	3.5
426.72	429.77	3.05	2.25	73.77	0.88	28.85	4
429.77	432.82	3.05	2.80	91.80	0.24	7.87	4
432.82	435.86	3.04	2.99	98.36	1.26	41.45	4
435.86	438.91	3.05	3.02	99.02	0.96	31.48	4
438.91	441.96	3.05	2.80	91.80	1.08	35.41	4
441.96	445.01	3.05	2.96	97.05	0.12	3.93	4
445.01	448.06	3.05	2.92	95.74	0.16	5.25	4
448.06	451.10	3.04	2.89	95.07	1.41	46.38	4
451.10	454.15	3.05	2.53	82.95	0.47	15.41	4
454.15	457.20	3.05	2.45	80.33	0.26	8.52	4
457.20	460.25	3.05	2.76	90.49	0.31	10.16	4
460.25	463.30	3.05	3.05	100.00	0.77	25.25	4
463.30	466.34	3.04	3.08	101.32	0.63	20.72	4
466.34	469.39	3.05	2.54	83.28	0.51	16.72	4
E.O.H.							

Date: August 6/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-20

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	?						
?	6.71		2.14		0.00		4
6.71	11.20	4.49	0.89	19.82	0.00	0.00	3
11.20	12.80	1.60	0.39	24.38	0.00	0.00	3
12.80	14.33	1.53	0.50	32.68	0.00	0.00	4
14.33	15.85	1.52	0.00	0.00	0.00	0.00	
15.85	17.37	1.52	0.45	29.61	0.00	0.00	4
17.37	18.29	0.92	0.60	65.22	0.10	10.87	4
18.29	18.90	0.61	0.04	6.56	0.00	0.00	4
18.90	20.42	1.52	1.00	65.79	0.00	0.00	3
20.42	21.95	1.53	1.04	67.97	0.00	0.00	3
21.95	23.47	1.52	0.93	61.18	0.17	11.18	3
23.47	24.99	1.52	1.26	82.89	0.11	7.24	4
24.99	26.52	1.53	1.20	78.43	0.22	14.38	4
26.52	28.04	1.52	1.03	67.76	0.14	9.21	4
28.04	29.57	1.53	0.75	49.02	0.00	0.00	4
29.57	31.09	1.52	0.84	55.26	0.38	25.00	4
31.09	32.61	1.52	1.24	81.58	0.40	26.32	4
32.61	34.14	1.53	1.28	83.66	0.00	0.00	4
34.14	35.66	1.52	1.40	92.11	0.13	8.55	4
35.66	37.19	1.53	1.22	79.74	0.00	0.00	4
37.19	38.71	1.52	1.39	91.45	0.28	18.42	4
38.71	40.23	1.52	1.42	93.42	0.44	28.95	4
40.23	41.76	1.53	1.08	70.59	0.31	20.26	4
41.76	43.28	1.52	1.27	83.55	0.37	24.34	4
43.28	44.81	1.53	1.20	78.43	0.38	24.84	4
44.81	46.33	1.52	1.35	88.82	0.54	35.53	3
46.33	47.85	1.52	1.29	84.87	0.69	45.39	3
47.85	49.38	1.53	1.13	73.86	0.39	25.49	4
49.38	50.90	1.52	1.46	96.05	0.82	53.95	3
50.90	52.43	1.53	1.49	97.39	0.25	16.34	3
52.43	53.95	1.52	1.20	78.95	0.10	6.58	4
53.95	55.47	1.52	1.37	90.13	0.00	0.00	3
55.47	57.00	1.53	1.43	93.46	0.00	0.00	3
57.00	58.52	1.52	1.25	82.24	0.59	38.82	4
58.52	60.05	1.53	1.20	78.43	0.00	0.00	4
60.05	61.57	1.52	0.50	32.89	0.00	0.00	4
61.57	63.09	1.52	1.31	86.18	0.00	0.00	4
63.09	64.62	1.53	0.51	33.33	0.00	0.00	4
64.62	66.14	1.52	2.16	142.11	0.31	20.39	4
66.14	67.67	1.53	1.27	83.01	0.00	0.00	4
67.67	69.19	1.52	1.25	82.24	0.00	0.00	4
69.19	70.71	1.52	1.14	75.00	0.10	6.58	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
70.71	73.15	2.44	2.16	88.52	0.29	11.89	4
73.15	73.76	0.61	0.16	26.23	0.00	0.00	4
73.76	76.50	2.74	1.09	39.78	0.47	17.15	4
76.50	78.33	1.83	1.54	84.15	1.30	71.04	4
78.33	81.38	3.05	3.00	98.36	2.01	65.90	4
81.38	84.43	3.05	2.88	94.43	1.04	34.10	4
84.43	87.48	3.05	2.54	83.28	0.43	14.10	4
87.48	90.53	3.05	2.56	83.93	0.65	21.31	4
90.53	93.57	3.04	2.99	98.36	1.09	35.86	4
93.57	96.62	3.05	2.94	96.39	0.28	9.18	4
96.62	99.67	3.05	2.65	86.89	0.67	21.97	4
99.67	102.72	3.05	2.96	97.05	1.61	52.79	4
102.72	105.77	3.05	2.91	95.41	0.51	16.72	4
105.77	108.81	3.04	2.65	87.17	0.32	10.53	4
108.81	111.86	3.05	2.89	94.75	2.08	68.20	4
111.86	114.91	3.05	2.80	91.80	0.48	15.74	4
114.91	117.96	3.05	2.95	96.72	2.37	77.70	4
117.96	121.01	3.05	2.99	98.03	0.96	31.48	4
121.01	124.05	3.04	2.99	98.36	2.54	83.55	4
124.05	127.10	3.05	2.96	97.05	0.72	23.61	4
127.10	130.15	3.05	3.00	98.36	1.57	51.48	4
130.15	133.20	3.05	3.01	98.69	1.12	36.72	4
133.20	136.25	3.05	3.03	99.34	0.81	26.56	4
136.25	139.29	3.04	2.99	98.36	1.10	36.18	4
139.29	142.34	3.05	2.97	97.38	0.58	19.02	4
142.34	145.39	3.05	2.90	95.08	0.60	19.67	4
145.39	148.44	3.05	2.45	80.33	0.50	16.39	4
148.44	151.49	3.05	2.98	97.70	0.82	26.89	4
151.49	154.53	3.04	2.87	94.41	0.97	31.91	4
154.53	157.58	3.05	3.04	99.67	2.24	73.44	4
157.58	160.63	3.05	2.79	91.48	1.09	35.74	4
160.63	166.73	6.10	5.96	97.70	2.16	35.41	5
166.73	169.77	3.04	2.91	95.72	1.35	44.41	5
169.77	172.82	3.05	2.84	93.11	1.26	41.31	5
172.82	175.87	3.05	3.00	98.36	1.29	42.30	5
175.87	178.92	3.05	2.91	95.41	2.07	67.87	5
178.92	181.97	3.05	3.05	100.00	1.70	55.74	5
181.97	185.01	3.04	2.95	97.04	1.71	56.25	5
185.01	188.06	3.05	2.92	95.74	1.61	52.79	4
188.06	191.11	3.05	2.96	97.05	0.73	23.93	4
191.11	194.16	3.05	2.86	93.77	1.65	54.10	3
194.16	197.21	3.05	2.94	96.39	1.74	57.05	4
197.21	200.25	3.04	2.92	96.05	1.64	53.95	4
200.25	203.30	3.05	2.93	96.07	1.81	59.34	4
203.30	206.35	3.05	2.95	96.72	1.59	52.13	4
206.35	209.40	3.05	2.95	96.72	1.49	48.85	4
209.40	212.45	3.05	2.94	96.39	2.16	70.82	4
212.45	215.49	3.04		0.00		0.00	
215.49	218.54	3.05	2.94	96.39	2.11	69.18	
218.54	221.59	3.05	3.00	98.36	1.81	59.34	

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
221.59	224.64	3.05	2.98	97.70	1.34	43.93	
224.64	227.69	3.05	2.64	86.56	0.92	30.16	
227.69	230.73	3.04	3.02	99.34	2.12	69.74	
230.73	233.78	3.05	2.85	93.44	1.91	62.62	
233.78	236.83	3.05	2.96	97.05	2.13	69.84	
236.83	239.88	3.05	2.90	95.08	1.77	58.03	
239.88	242.93	3.05	2.88	94.43	1.59	52.13	
242.93	245.97	3.04	2.90	95.39	2.32	76.32	
245.97	249.02	3.05	2.92	95.74	2.12	69.51	3
249.02	252.07	3.05	2.98	97.70	2.29	75.08	4
252.07	255.12	3.05	3.04	99.67	1.91	62.62	4
255.12	258.17	3.05	2.92	95.74	2.68	87.87	4
258.17	261.21	3.04	3.00	98.68	2.31	75.99	4
261.21	264.26	3.05	2.98	97.70	1.91	62.62	4
264.26	267.31	3.05	2.89	94.75	1.09	35.74	4
267.31	270.36	3.05	2.92	95.74	1.82	59.67	4
270.36	273.41	3.05	2.50	81.97	1.47	48.20	4
273.41	276.45	3.04	2.78	91.45	1.50	49.34	4
276.45	279.50	3.05	2.94	96.39	1.82	59.67	4
279.50	282.55	3.05	2.99	98.03	2.27	74.43	4
282.55	285.60	3.05	3.04	99.67	1.53	50.16	4
285.60	288.65	3.05	2.98	97.70	1.52	49.84	4
288.65	291.69	3.04	2.86	94.08	2.15	70.72	4
291.69	294.79	3.10	2.77	89.35	1.23	39.68	4
294.79	297.79	3.00	2.86	95.33	1.64	54.67	4
297.79	300.84	3.05	2.93	96.07	2.10	68.85	4
300.84	303.89	3.05	3.01	98.69	2.44	80.00	4
303.89	306.93	3.04	3.15	103.62	1.05	34.54	4
306.93	309.98	3.05	2.89	94.75	1.52	49.84	4
309.98	313.08	3.10	2.99	96.45	1.64	52.90	4
313.08	316.08	3.00	2.93	97.67	2.07	69.00	4
316.08	319.13	3.05	2.76	90.49	2.20	72.13	4
319.13	322.17	3.04	2.92	96.05	1.44	47.37	4
322.17	325.22	3.05	2.92	95.74	2.14	70.16	4
325.22	328.27	3.05	2.94	96.39	2.87	94.10	4
328.27	331.32	3.05	3.08	100.98	1.31	42.95	4
331.32	334.98	3.66	3.48	95.08	1.87	51.09	4
334.98	340.46	5.48	5.38	98.18	3.23	58.94	4
340.46	346.56	6.10	6.10	100.00	3.46	56.72	4
346.56	349.61	3.05	2.92	95.74	2.20	72.13	4
349.61	352.65	3.04	3.03	99.67	2.28	75.00	4
352.65	355.70	3.05	3.00	98.36	1.88	61.64	4
355.70	358.75	3.05	2.96	97.05	2.17	71.15	4
358.75	361.80	3.05	2.88	94.43	2.04	66.89	4
361.80	364.85	3.05	3.13	102.62	1.10	36.07	4
364.85	367.89	3.04	2.87	94.41	0.40	13.16	4
367.89	370.94	3.05	3.00	98.36	1.56	51.15	4
370.94	373.99	3.05	2.96	97.05	1.56	51.15	4
373.99	377.04	3.05	3.00	98.36	0.71	23.28	4
377.04	380.09	3.05	3.00	98.36	0.62	20.33	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
380.09	383.13	3.04	2.97	97.70	1.16	38.16	4
383.13	386.18	3.05	3.06	100.33	1.44	47.21	4
386.18	389.23	3.05	2.98	97.70	2.02	66.23	4
389.23	395.33	6.10	5.07	83.11	1.84	30.16	4
395.33	401.42	6.09	5.84	95.89	2.82	46.31	4
401.42	407.52	6.10	6.10	100.00	2.76	45.25	4
407.52	413.61	6.09	6.01	98.69	1.55	25.45	4
413.61	419.71	6.10	6.10	100.00	1.45	23.77	4
419.71	425.81	6.10	6.09	99.84	1.35	22.13	4
425.81	431.90	6.09	5.95	97.70	1.03	16.91	4
431.90	434.95	3.05	2.65	86.89	0.68	22.30	4
434.95	438.00	3.05	3.34	109.51	2.70	88.52	4
438.00	441.05	3.05	2.46	80.66	0.57	18.69	4
441.05	444.09	3.04	3.02	99.34	1.25	41.12	4
444.09	447.14	3.05	2.69	88.20	1.24	40.66	4
447.14	450.19	3.05	3.07	100.66	1.59	52.13	4
450.19	453.24	3.05	2.58	84.59	1.08	35.41	4
453.24	456.29	3.05	3.02	99.02	1.70	55.74	4
456.29	457.81	1.52	1.53	100.66	0.70	46.05	4

E.O.H.

Date: August 5/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-21

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	18.29	CASING					
18.29	19.81	1.52	1.40	92.11	0.00	0.00	
19.81	21.34	1.53	1.16	75.82	0.34	29.31	
21.34	21.95	0.61	0.27	44.26	0.17	62.96	
21.95	23.47	1.52	1.46	96.05	0.00	0.00	
23.47	24.99	1.52	1.37	90.13	0.00	0.00	
24.99	26.52	1.53	1.47	96.08	0.17	11.56	
26.52	28.04	1.52	1.21	79.61	0.17	14.05	
28.04	29.54	1.50	1.38	92.00	0.37	26.81	
29.54	31.09	1.55	1.40	90.32	0.36	25.71	
31.09	32.61	1.52	1.37	90.13	0.33	24.09	
32.61	34.14	1.53	1.26	82.35	0.00	0.00	
34.14	35.66	1.52	1.42	93.42	0.40	28.17	
35.66	37.19	1.53	1.26	82.35	0.40	31.75	
37.19	38.71	1.52	1.43	94.08	0.37	25.87	
38.71	40.23	1.52	1.19	78.29	0.58	48.74	
40.23	41.76	1.53	1.42	92.81	0.79	55.63	
41.76	43.28	1.52	1.23	80.92	0.48	39.02	
43.28	44.81	1.53	1.46	95.42	0.13	8.90	
44.81	46.33	1.52	1.33	87.50	0.29	21.80	
46.33	47.85	1.52	1.44	94.74	0.19	13.19	
47.85	49.38	1.53	1.26	82.35	0.17	13.49	
49.38	50.90	1.52	1.34	88.16	0.14	10.45	
50.90	52.43	1.53	1.33	86.93	0.56	42.11	
52.43	53.95	1.52	1.38	90.79	0.26	18.84	
53.95	55.47	1.52	1.35	88.82	0.87	64.44	
55.47	57.00	1.53	1.35	88.24	0.40	29.63	
57.00	58.52	1.52	1.29	84.87	0.34	26.36	
58.52	60.05	1.53	1.33	86.93	0.41	30.83	
60.05	61.57	1.52	1.24	81.58	0.30	24.19	
61.57	63.09	1.52	0.94	61.84	0.00	0.00	
63.09	64.62	1.53	1.45	94.77	0.76	52.41	
64.62	66.14	1.52	1.20	78.95	0.60	50.00	
66.14	69.19	3.05	1.89	61.97	0.57	30.16	
69.19	72.24	3.05	2.68	87.87	0.16	5.97	
72.24	75.29	3.05	2.87	94.10	1.67	58.19	
75.29	78.33	3.04	2.75	90.46	0.97	35.27	3
78.33	81.38	3.05	2.45	80.33	0.61	24.90	3
81.38	84.43	3.05	2.60	85.25	0.28	10.77	3
84.43	87.48	3.05	2.22	72.79	0.64	28.83	3
87.48	90.53	3.05	2.31	75.74	0.35	15.15	3
90.53	93.57	3.04	2.08	68.42	0.00	0.00	2
93.57	96.62	3.05	2.89	94.75	0.31	10.73	3
96.62	99.67	3.05	2.77	90.82	0.58	20.94	3
99.67	102.72	3.05	2.86	93.77	0.42	14.69	3
102.72	105.77	3.05	2.71	88.85	0.64	23.62	3
105.77	108.81	3.04	2.81	92.43	0.30	10.68	3
108.81	111.86	3.05	2.88	94.43	0.47	16.32	3
111.86	114.91	3.05	2.71	88.85	0.14	5.17	2

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
114.91	117.96	3.05	2.99	98.03	0.57	19.06	3
117.96	121.01	3.05	2.96	97.05	0.97	32.77	3
121.01	124.05	3.04	2.90	95.39	1.28	44.14	3
124.05	127.10	3.05	2.98	97.70	1.37	45.97	3
127.10	130.15	3.05	2.93	96.07	0.60	20.48	3
130.15	133.20	3.05	2.94	96.39	1.82	61.90	3
133.20	136.25	3.05	2.92	95.74	1.01	34.59	3
136.25	139.29	3.04	2.78	91.45	0.87	31.29	3
139.29	142.34	3.05	2.85	93.44	0.24	8.42	2
142.34	145.39	3.05	2.94	96.39	0.32	10.88	2
145.39	148.44	3.05	2.87	94.10	0.74	25.78	3
148.44	151.49	3.05	3.04	99.67	1.12	36.84	3
151.49	154.53	3.04	3.01	99.01	1.16	38.54	3
154.53	157.58	3.05	3.00	98.36	1.90	63.33	3
157.58	160.63	3.05	3.05	100.00	2.26	74.10	4
160.63	163.68	3.05	3.06	100.33	2.26	73.86	4
163.68	166.73	3.05	3.04	99.67	2.06	67.76	4
166.73	169.77	3.04	3.09	101.64	2.18	70.55	3
169.77	172.82	3.05	3.03	99.34	1.72	56.77	4
172.82	175.87	3.05	3.10	101.64	2.05	66.13	4
175.87	178.92	3.05	3.14	102.95	0.42	13.38	3
178.92	181.97	3.05	3.15	103.28	1.32	41.90	3
181.97	185.01	3.04	3.21	105.59	1.61	50.16	3
185.01	188.06	3.05	3.05	100.00	2.07	67.87	4
188.06	191.11	3.05	3.15	103.28	1.75	55.56	3
191.11	194.16	3.05	3.24	106.23	1.47	45.37	3
194.16	197.21	3.05	3.15	103.28	1.14	36.19	2
197.21	200.25	3.04	3.37	110.86	1.85	54.90	3
200.25	203.30	3.05	3.02	99.02	1.48	49.01	3
203.30	206.35	3.05	3.00	98.36	1.32	44.00	3
206.35	209.40	3.05	3.31	108.52	2.28	68.88	3
209.40	212.45	3.05	3.20	104.92	1.72	53.75	3
212.45	215.49	3.04	3.00	98.68	2.54	84.67	4
215.49	218.54	3.05	3.18	104.26	1.71	53.77	3
218.54	221.59	3.05	2.98	97.70	2.48	83.22	3
221.59	224.64	3.05	3.12	102.30	2.63	84.29	4
224.64	227.69	3.05	3.02	99.02	2.33	77.15	4
227.69	230.73	3.04	2.97	97.70	2.50	84.18	3
230.73	233.78	3.05	3.16	103.61	2.05	64.87	3
233.78	236.83	3.05	2.99	98.03	2.48	82.94	4
236.83	239.88	3.05	3.04	99.67	1.55	50.99	3
239.88	242.93	3.05	2.91	95.41	2.02	69.42	4
242.93	245.97	3.04	3.06	100.66	2.21	72.22	3
245.97	249.02	3.05	3.05	100.00	2.66	87.21	3
249.02	252.07	3.05	3.02	99.02	2.58	85.43	3
252.07	255.12	3.05	2.96	97.05	2.88	97.30	3
255.12	258.17	3.05	3.07	100.66	2.33	75.90	3
258.17	261.21	3.04	3.02	99.34	2.06	68.21	3
261.21	264.26	3.05	2.91	95.41	2.40	82.47	3
264.26	267.31	3.05	3.01	98.69	2.36	78.41	3
267.31	270.36	3.05	2.86	93.77	1.76	61.54	4
270.36	273.41	3.05	3.02	99.02	2.35	77.81	3
273.41	276.45	3.04	3.02	99.34	1.64	54.30	3
276.45	279.50	3.05	2.80	91.80	2.12	75.71	4
279.50	282.55	3.05	2.94	96.39	1.53	52.04	4
282.55	285.60	3.05	3.04	99.67	1.43	47.04	3

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
285.60	288.65	3.05	3.01	98.69	1.61	53.49	4
288.65	291.69	3.04	2.90	95.39	1.67	57.59	4
291.69	294.74	3.05	2.93	96.07	1.98	67.58	4
294.74	297.79	3.05	2.92	95.74	2.25	77.05	4
297.79	300.84	3.05	3.03	99.34	2.32	76.57	3
300.84	303.89	3.05	3.02	99.02	1.93	63.91	3
303.89	306.93	3.04	3.00	98.68	1.91	63.67	3
306.93	309.88	2.95	2.92	98.98	2.34	80.14	3
309.88	313.03	3.15	3.06	97.14	2.54	83.01	3
313.03	316.08	3.05	2.94	96.39	1.47	50.00	3
316.08	319.13	3.05	2.90	95.08	1.98	68.28	3
319.13	322.17	3.04	3.06	100.66	2.45	80.07	4
322.17	325.22	3.05	3.01	98.69	2.07	68.77	3
325.22	328.27	3.05	3.19	104.59	1.88	58.93	4
328.27	331.32	3.05	3.01	98.69	2.47	82.06	3
331.32	334.37	3.05	3.26	106.89	1.55	47.55	4
334.37	337.41	3.04	3.00	98.68	1.91	63.67	3
337.41	340.46	3.05	3.05	100.00	2.28	74.75	3
340.46	343.51	3.05	3.07	100.66	2.23	72.64	3
343.51	346.56	3.05	3.09	101.31	2.34	75.73	4
346.56	349.61	3.05	2.90	95.08	2.29	78.97	3
349.61	352.65	3.04	3.26	107.24	1.20	36.81	3
352.65	355.70	3.05	3.07	100.66	2.12	69.06	3
355.70	358.75	3.05	3.16	103.61	2.13	67.41	2
358.75	361.80	3.05	3.08	100.98	1.85	60.06	3
361.80	364.85	3.05	3.17	103.93	2.27	71.61	3
364.85	367.89	3.04	3.07	100.99	2.76	89.90	3
367.89	370.94	3.05	3.10	101.64	1.38	44.52	3
370.94	373.99	3.05	3.13	102.62	2.22	70.93	3
373.99	377.04	3.05	3.06	100.33	1.77	57.84	3
377.04	380.09	3.05	3.04	99.67	2.87	94.41	3
380.09	383.13	3.04	3.08	101.32	1.62	52.60	4
383.13	386.18	3.05	3.13	102.62	2.12	67.73	3
386.18	389.23	3.05	3.14	102.95	2.17	69.11	3
389.23	392.28	3.05	3.04	99.67	2.75	90.46	4
392.28	395.33	3.05	3.08	100.98	2.72	88.31	4
395.33	398.37	3.04	3.09	101.64	2.26	73.14	3
398.37	401.42	3.05	2.95	96.72	1.76	59.66	4
401.42	404.47	3.05	2.97	97.38	2.31	77.78	3
404.47	407.52	3.05	2.99	98.03	2.25	75.25	4
407.52	410.57	3.05	2.99	98.03	1.90	63.55	3
410.57	413.61	3.04	2.94	96.71	0.59	20.07	4
413.61	416.66	3.05	2.91	95.41	0.68	23.37	4
416.66	419.71	3.05	2.99	98.03	1.22	40.80	4
419.71	422.76	3.05	2.91	95.41	1.49	51.20	4
422.76	425.81	3.05	2.98	97.70	1.30	43.62	4
425.81	428.85	3.04	3.02	99.34	1.84	60.93	4
428.85	431.90	3.05	2.80	91.80	1.58	56.43	4
431.90	434.95	3.05	2.95	96.72	1.92	65.08	4
434.95	438.00	3.05	2.90	95.08	1.76	60.69	4
438.00	441.05	3.05	2.76	90.49	0.75	27.17	4
441.05	444.09	3.04	2.89	95.07	0.37	12.80	4
444.09	447.14	3.05	2.81	92.13	0.76	27.05	4
447.14	450.19	3.05	3.00	98.36	2.46	82.00	4
450.19	453.24	3.05	2.89	94.75	1.65	57.09	4
453.24	456.29	3.05	2.76	90.49	1.70	61.59	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
456.29	459.33	3.04	2.85	93.75	0.94	32.98	4
459.33	462.38	3.05	3.01	98.69	2.51	83.39	4
462.38	465.43	3.05	2.72	89.18	1.15	42.28	4
465.43	468.48	3.05	2.87	94.10	0.67	23.34	4
468.48	471.53	3.05	2.85	93.44	1.91	67.02	4
471.53	474.57	3.04	2.88	94.74	1.69	58.68	4
474.57	477.62	3.05	3.06	100.33	2.63	85.95	4
477.62	480.67	3.05	3.05	100.00	2.74	89.84	4
480.67	483.72	3.05	3.03	99.34	3.03	100.00	4
483.72	486.77	3.05	2.92	95.74	2.84	97.26	4
486.77	487.81	1.04	3.06	294.23	2.74	89.54	4
487.81	492.86	5.05	2.94	58.22	2.90	98.64	4
492.86	495.91	3.05	3.01	98.69	2.78	92.36	4
495.91	498.96	3.05	3.03	99.34	2.26	74.59	4
498.96	502.01	3.05	3.04	99.67	2.60	85.53	4
502.01	505.05	3.04	3.00	98.68	2.63	87.67	4
505.05	508.10	3.05	3.01	98.69	2.66	88.37	4
508.10	511.15	3.05	2.98	97.70	2.54	85.23	4
511.15	514.20	3.05	2.93	96.07	2.87	97.95	4
514.20	517.25	3.05	3.05	100.00	2.62	85.90	4
517.25	520.29	3.04	2.95	97.04	2.33	78.98	4
520.29	523.34	3.05	3.00	98.36	2.36	78.67	4
523.34	526.39	3.05	3.03	99.34	2.44	80.53	4
526.39	529.44	3.05	3.01	98.69	2.43	80.73	4
529.44	532.45	3.01	3.02	100.33	2.50	82.78	4
532.45	535.53	3.08	2.94	95.45	2.49	84.69	4
535.53	538.58	3.05	2.99	98.03	2.97	99.33	4
538.58	541.63	3.05	3.05	100.00	2.70	88.52	4
541.63	544.68	3.05	3.04	99.67	2.53	83.22	4
544.68	547.73	3.05	2.96	97.05	2.85	96.28	4
547.73	550.77	3.04	3.08	101.32	2.38	77.27	4
550.77	553.82	3.05	3.01	98.69	3.01	100.00	4
553.82	556.87	3.05	2.98	97.70	2.76	92.62	4
556.87	559.92	3.05	3.04	99.67	2.42	79.61	4
559.92	562.97	3.05	2.99	98.03	1.98	66.22	4
562.97	566.01	3.04	2.98	98.03	0.78	26.17	4
566.01	569.06	3.05	2.87	94.10	1.07	37.28	4
569.06	572.11	3.05	2.92	95.74	0.84	28.77	4
572.11	575.16	3.05	2.94	96.39	1.20	40.82	3
575.16	578.21	3.05	2.92	95.74	0.34	11.64	3
578.21	581.25	3.04	2.98	98.03	0.25	8.39	2
581.25	584.30	3.05	3.12	102.30	0.83	26.60	3
584.30	587.35	3.05	3.07	100.66	1.68	54.72	4
587.35	590.40	3.05	3.00	98.36	2.24	74.67	5
590.40	593.45	3.05	3.12	102.30	2.72	87.18	4
593.45	596.49	3.04	3.03	99.67	2.81	92.74	4
596.49	599.54	3.05	3.09	101.31	2.99	96.76	4
599.54	602.59	3.05	3.09	101.31	2.26	73.14	4
602.59	605.64	3.05	3.07	100.66	2.18	71.01	4
605.64	608.69	3.05	3.07	100.66	2.23	72.64	4
608.69	611.73	3.04	3.18	104.61	1.65	51.89	3
611.73	614.78	3.05	3.03	99.34	1.50	49.50	3
614.78	617.83	3.05	3.10	101.64	1.80	58.06	4
617.83	620.88	3.05	3.04	99.67	2.45	80.59	3

E.O.H.

Date: July 4/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-22

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	5.79	5.79	1.59	27.46	0.00	0.00	3
5.79	6.71	0.92	0.67	72.83	0.00	0.00	3
6.71	8.23	1.52	1.34	88.16	0.00	0.00	3
8.23	9.75	1.52	1.45	95.39	0.00	0.00	3
9.75	11.28	1.53	1.52	99.35	0.80	52.29	3
11.28	12.80	1.52	1.42	93.42	0.18	11.84	3
12.80	14.33	1.53	1.36	88.89	0.36	23.53	4
14.33	15.85	1.52	1.36	89.47	0.27	17.76	3
15.85	18.90	3.05	1.20	39.34	0.00	0.00	3
18.90	20.42	1.52	1.44	94.74	0.14	9.21	3
20.42	21.95	1.53	1.37	89.54	0.56	36.60	3
21.95	23.47	1.52	1.39	91.45	0.79	51.97	3
23.47	24.99	1.52	1.33	87.50	0.77	50.66	4
24.99	26.52	1.53	1.37	89.54	0.48	31.37	4
26.52	28.04	1.52	0.35	23.03	0.00	0.00	4
28.04	29.57	1.53	1.20	78.43	0.00	0.00	4
29.57	31.09	1.52	0.00	0.00	0.00	0.00	-
31.09	32.61	1.52	0.00	0.00	0.00	0.00	-
32.61	34.14	1.53	0.00	0.00	0.00	0.00	-
34.14	35.66	1.52	0.70	46.05	0.00	0.00	4
35.66	37.19	1.53	0.75	49.02	0.00	0.00	4
37.19	38.71	1.52	0.45	29.61	0.00	0.00	4
38.71	40.23	1.52	1.37	90.13	0.35	23.03	3
40.23	41.76	1.53	1.42	92.81	0.20	13.07	3
41.76	43.28	1.52	1.42	93.42	0.89	58.55	4
43.28	46.33	3.05	2.61	85.57	0.69	22.62	4
46.33	47.85	1.52	0.95	62.50	0.00	0.00	3
47.85	50.90	3.05	2.54	83.28	0.43	14.10	3
50.90	52.43	1.53	1.25	81.70	0.62	40.52	4
52.43	53.95	1.52	1.34	88.16	0.34	22.37	4
53.95	55.47	1.52	1.20	78.95	0.14	9.21	4
55.47	57.00	1.53	1.20	78.43	0.00	0.00	4
57.00	58.52	1.52	1.34	88.16	0.38	25.00	4
58.52	60.05	1.53	1.38	90.20	0.30	19.61	4
60.05	63.09	3.04	2.85	93.75	0.90	29.61	4
63.09	64.62	1.53	1.49	97.39	0.77	50.33	4
64.62	66.14	1.52	1.49	98.03	1.07	70.39	4
66.14	67.67	1.53	1.36	88.89	0.99	64.71	4
67.67	70.10	2.43	1.97	81.07	0.96	39.51	4
70.10	75.29	5.19	4.76	91.71	1.95	37.57	4
75.29	78.33	3.04	2.48	81.58	0.23	7.57	4
78.33	81.69	3.36	3.28	97.62	0.82	24.40	4
81.69	85.04	3.35	2.45	73.13	1.07	31.94	4
85.04	90.53	5.49	5.24	95.45	2.05	37.34	4
90.53	96.62	6.09	5.65	92.78	2.93	48.11	4
96.62	102.72	6.10	5.07	83.11	1.77	29.02	4
102.72	108.81	6.09	5.50	90.31	3.06	50.25	4
108.81	114.91	6.10	5.87	96.23	1.85	30.33	4
114.91	121.01	6.10	5.05	82.79	2.63	43.11	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
121.01	124.05	3.04	2.81	92.43	0.80	26.32	4
124.05	130.15	6.10	5.65	92.62	1.65	27.05	4
130.15	136.25	6.10	5.75	94.26	1.78	29.18	4
136.25	142.34	6.09	5.65	92.78	2.64	43.35	4
142.34	148.44	6.10	5.87	96.23	2.94	48.20	4
148.44	154.53	6.09	5.83	95.73	3.63	59.61	4
154.53	160.63	6.10	5.18	84.92	1.22	20.00	4
160.63	166.73	6.10	5.46	89.51	2.71	44.43	4
166.73	172.82	6.09	5.49	90.15	3.07	50.41	4
172.82	178.92	6.10	5.86	96.07	2.24	36.72	4
178.92	185.01	6.09	5.56	91.30	1.16	19.05	4
185.01	191.11	6.10	5.33	87.38	1.17	19.18	4
191.11	197.21	6.10	4.96	81.31	1.21	19.84	4
197.21	200.25	3.04	6.05	199.01	1.14	37.50	4
200.25	204.83	4.58	3.86	84.28	0.57	12.45	4
204.83	209.40	4.57	5.73	125.38	2.37	51.86	4
209.40	220.07	10.67	8.10	75.91	2.35	22.02	4
220.07	227.99	7.92	7.60	95.96	3.79	47.85	4
227.99	232.26	4.27	3.97	92.97	2.33	54.57	4
232.26	236.83	4.57	4.20	91.90	0.88	19.26	4
236.83	242.93	6.10	5.76	94.43	2.09	34.26	4
242.93	249.02	6.09	5.93	97.37	2.63	43.19	4
249.02	255.12	6.10	6.00	98.36	2.18	35.74	4
255.12	261.21	6.09	5.88	96.55	2.40	39.41	4
261.21	267.31	6.10	5.95	97.54	2.59	42.46	4
267.31	271.88	4.57	3.87	84.68	1.22	26.70	4
271.88	276.45	4.57	4.66	101.97	1.68	36.76	4
276.45	282.55	6.10	5.89	96.56	2.89	47.38	4
282.55	286.51	3.96	4.07	102.78	0.80	20.20	4
286.51	290.47	3.96	3.27	82.58	0.21	5.30	4
290.47	296.57	6.10	5.94	97.38	0.56	9.18	4
296.57	303.28	6.71	6.04	90.01	1.62	24.14	4
303.28	309.68	6.40	5.99	93.59	1.26	19.69	4
309.68	316.08	6.40	6.25	97.66	0.77	12.03	4
316.08	322.17	6.09	5.90	96.88	2.39	39.24	4
322.17	328.27	6.10	5.78	94.75	1.87	30.66	4
328.27	334.37	6.10	5.89	96.56	2.27	37.21	4
334.37	340.46	6.09	5.95	97.70	2.05	33.66	4
340.46	346.56	6.10	5.80	95.08	1.87	30.66	4
346.56	352.65	6.09	5.78	94.91	4.59	75.37	4
352.65	358.75	6.10	5.74	94.10	3.82	62.62	3
358.75	364.85	6.10	5.83	95.57	4.98	81.64	4
364.85	370.94	6.09	5.98	98.19	4.88	80.13	4
370.94	377.04	6.10	5.73	93.93	4.73	77.54	3
377.04	383.13	6.09	6.09	100.00	3.48	57.14	3
383.13	389.23	6.10	6.01	98.52	5.28	86.56	4
389.23	395.33	6.10	6.00	98.36	5.28	86.56	3
395.33	401.42	6.09	5.76	94.58	3.71	60.92	4
401.42	407.52	6.10	5.88	96.39	4.49	73.61	3
407.52	413.67	6.15	5.89	95.77	4.32	70.24	3
413.67	419.71	6.04	5.75	95.20	3.54	58.61	4
419.71	425.81	6.10	5.84	95.74	4.98	81.64	4
425.81	431.90	6.09	6.20	101.81	4.85	79.64	4
431.90	438.00	6.10	6.10	100.00	5.44	89.18	4
438.00	444.09	6.09	6.07	99.67	4.85	79.64	4
444.09	450.19	6.10	5.60	91.80	3.90	63.93	3

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
450.19	456.29	6.10	5.93	97.21	4.84	79.34	3
456.29	462.38	6.09	5.75	94.42	3.59	58.95	4
462.38	468.48	6.10	5.88	96.39	3.99	65.41	4
468.48	473.05	4.57	4.13	90.37	0.52	11.38	3
473.05	479.45	6.40	6.26	97.81	3.38	52.81	4
479.45	485.85	6.40	6.15	96.09	4.79	74.84	4
485.85	492.25	6.40	6.17	96.41	5.00	78.13	4
492.25	498.65	6.40	6.07	94.84	4.39	68.59	5
498.65	502.01	3.36	3.05	90.77	1.39	41.37	4
502.01	508.10	6.09	5.60	91.95	3.78	62.07	3
508.10	514.20	6.10	5.91	96.89	3.32	54.43	4
514.20	520.29	6.09	6.07	99.67	4.56	74.88	5
520.29	526.39	6.10	5.99	98.20	3.92	64.26	5
526.39	532.49	6.10	5.81	95.25	3.11	50.98	5
532.49	538.58	6.09	4.89	80.30	2.97	48.77	5
538.58	543.46	4.88	5.26	107.79	3.11	63.73	
543.46	547.73	4.27	4.33	101.41	2.07	48.48	
547.73	553.82	6.09	6.16	101.15	3.29	54.02	
553.82	559.92	6.10	5.87	96.23	4.33	70.98	
559.92	566.01	6.09	6.01	98.69	4.37	71.76	
566.01	572.11	6.10	5.96	97.70	4.77	78.20	
572.11	578.21	6.10	6.07	99.51	5.15	84.43	
578.21	584.30	6.09	5.84	95.89	4.74	77.83	
584.30	590.40	6.10	5.79	94.92	4.64	76.07	
590.40	596.49	6.09	6.06	99.51	4.22	69.29	
596.49	602.59	6.10	5.82	95.41	4.62	75.74	
602.59	608.69	6.10	6.02	98.69	3.40	55.74	
608.69	614.78	6.09	5.84	95.89	3.94	64.70	
614.78	620.88	6.10	5.76	94.43	4.92	80.66	
620.88	626.97	6.09	5.75	94.42	4.37	71.76	
626.97	633.07	6.10	5.90	96.72	4.18	68.52	
633.07	639.17	6.10	5.92	97.05	4.42	72.46	
639.17	645.26	6.09	5.90	96.88	4.30	70.61	
645.26	651.36	6.10	5.99	98.20	5.53	90.66	
651.36	657.45	6.09	5.88	96.55	3.20	52.55	
657.45	663.55	6.10	5.91	96.89	3.80	62.30	
663.55	669.65	6.10	5.92	97.05	2.00	32.79	
669.65	675.74	6.09	5.64	92.61	3.40	55.83	
675.74	681.23	5.49	4.98	90.71	2.55	46.45	
681.23	687.63	6.40	5.99	93.59	4.17	65.16	
687.63	690.98	3.35	3.31	98.81	1.20	35.82	
690.98	697.08	6.10	5.83	95.57	2.82	46.23	
697.08	703.17	6.09	5.55	91.13	2.14	35.14	
703.17	706.83	3.66	3.09	84.43	1.50	40.98	
706.83	711.10	4.27	4.27	100.00	1.20	28.10	
711.10	715.37	4.27	4.19	98.13	1.80	42.15	
715.37	721.46	6.09	5.70	93.60	4.07	66.83	

E.O.H.

Date: July 29/2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-23

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.66	3.66	0.22	6.0	0.00	0.0	4
3.66	5.79	2.13	1.15	54.0	0.00	0.0	4
5.79	8.23	2.44	2.70	110.7	0.39	14.4	4
8.23	9.75	1.52	1.62	106.6	1.08	66.7	4
9.75	11.28	1.53	1.30	85.0	0.91	70.0	4
11.28	12.80	1.52	1.49	98.0	0.87	58.4	4
12.80	15.85	3.05	2.80	91.8	1.36	48.6	4
15.85	17.37	1.52	1.41	92.8	0.61	43.3	4
17.37	18.90	1.53	1.52	99.3	0.80	52.6	4
18.90	20.42	1.52	1.46	96.1	0.46	31.5	4
20.42	21.95	1.53	1.27	83.0	1.14	89.8	4
21.95	23.47	1.52	1.19	78.3	0.60	50.4	4
23.47	24.99	1.52	1.74	114.5	1.02	58.6	4
24.99	26.52	1.53	1.36	88.9	0.93	68.4	4
26.52	28.04	1.52	1.30	85.5	0.79	60.8	4
28.04	29.57	1.53	1.29	84.3	1.09	84.5	4
29.57	30.48	0.91	0.79	86.8	0.27	34.2	4
30.48	32.61	2.13	1.99	93.4	1.16	58.3	4
32.61	35.66	3.05	2.92	95.7	1.93	66.1	4
35.66	38.71	3.05	2.77	90.8	1.06	38.3	4
38.71	41.76	3.05	2.72	89.2	1.35	49.6	4
41.76	44.81	3.05	2.59	84.9	0.76	29.3	4
44.81	47.85	3.04	2.80	92.1	1.12	40.0	4
47.85	50.90	3.05	2.79	91.5	1.00	35.8	4
50.90	53.95	3.05	3.00	98.4	2.30	76.7	4
53.95	57.00	3.05	2.65	86.9	1.45	54.7	4
57.00	60.05	3.05	3.01	98.7	1.54	51.2	4
60.05	63.09	3.04	3.00	98.7	0.99	33.0	4
63.09	66.14	3.05	3.06	100.3	1.88	61.4	4
66.14	69.19	3.05	2.94	96.4	2.59	88.1	4
69.19	72.24	3.05	3.05	100.0	2.27	74.4	4
72.24	75.29	3.05	2.87	94.1	2.33	81.2	4
75.29	78.33	3.04	2.91	95.7	2.39	82.1	4
78.33	81.38	3.05					
81.38	84.43	3.05	2.84	93.1	1.73	60.9	4
84.43	87.48	3.05	3.01	98.7	1.74	57.8	4
87.48	90.53	3.05	3.08	101.0	1.87	60.7	4
90.53	93.57	3.04	3.02	99.3	2.50	82.8	4
93.57	96.62	3.05	3.06	100.3	2.04	66.7	4
96.62	99.67	3.05	2.92	95.7	2.44	83.6	4
99.67	102.72	3.05	2.84	93.1	2.16	76.1	4
102.72	105.77	3.05	3.04	99.7	2.11	69.5	4
105.77	108.81	3.04	3.07	101.0	2.11	68.7	4
108.81	111.86	3.05	3.00	98.4	2.42	80.7	4
111.86	114.91	3.05	3.01	98.7	2.44	81.1	4
114.91	117.96	3.05	3.02	99.0	2.41	79.8	4
117.96	121.01	3.05	3.00	98.4	2.16	72.0	4
121.01	124.05	3.04	2.89	95.1	2.42	83.7	4
124.05	127.10	3.05	3.01	98.7	2.31	76.7	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
127.10	130.15	3.05	2.99	98.0	1.89	63.2	4
130.15	133.20	3.05	2.95	96.7	2.26	76.6	4
133.20	136.25	3.05	2.94	96.4	2.18	74.1	4
136.25	139.29	3.04	3.02	99.3	1.96	64.9	4
139.29	142.34	3.05	2.85	93.4	1.55	54.4	4
142.34	145.39	3.05	3.01	98.7	1.98	65.8	4
145.39	148.44	3.05	2.82	92.5	1.60	56.7	4
148.44	151.49	3.05	2.93	96.1	1.11	37.9	4
151.49	154.53	3.04	2.79	91.8	1.23	44.1	4
154.53	157.58	3.05	2.96	97.0	1.68	56.8	4
157.58	160.63	3.05	2.90	95.1	1.57	54.1	4
160.63	163.68	3.05	2.85	93.4	1.41	49.5	4
163.68	166.78	3.10	2.65	85.5	1.18	44.5	4
166.78	169.77	2.99	2.69	90.0	1.26	46.8	4
169.77	172.82	3.05	2.58	84.6	0.53	20.5	4
172.82	175.87	3.05	2.74	89.8	0.84	30.7	4
175.87	178.92	3.05	2.79	91.5	1.38	49.5	4
178.92	181.97	3.05	2.97	97.4	1.58	53.2	4
181.97	185.01	3.04	2.67	87.8	1.15	43.1	4
185.01	188.06	3.05	2.80	91.8	0.80	28.6	4
188.06	191.11	3.05	2.95	96.7	2.32	78.6	4
191.11	194.16	3.05	2.93	96.1	1.61	54.9	4
194.16	197.21	3.05	2.96	97.0	2.17	73.3	4
197.21	200.25	3.04	2.97	97.7	1.65	55.6	4
200.25	203.30	3.05	2.97	97.4	1.77	59.6	4
203.30	206.35	3.05	2.90	95.1	1.69	58.3	4
206.35	209.40	3.05	2.95	96.7	1.53	51.9	4
209.40	212.45	3.05	2.87	94.1	1.87	65.2	4
212.45	215.49	3.04	2.99	98.4	1.72	57.5	4
215.49	218.54	3.05	2.89	94.8	1.91	66.1	4
218.54	221.59	3.05	2.95	96.7	1.34	45.4	4
221.59	224.64	3.05	2.91	95.4	2.19	75.3	4
224.64	227.69	3.05	2.84	93.1	0.73	25.7	4
227.69	230.73	3.04	2.80	92.1	1.44	51.4	4
230.73	233.78	3.05	2.88	94.4	1.81	62.8	4
233.78	236.83	3.05	2.64	86.6	1.55	58.7	4
236.83	239.88	3.05	2.85	93.4	0.67	23.5	4
239.88	242.93	3.05	3.30	108.2	2.27	68.8	4
242.93	245.97	3.04	3.04	100.0	2.04	67.1	4
245.97	249.02	3.05	3.07	100.7	1.23	40.1	4
249.02	252.07	3.05	2.78	91.1	1.11	39.9	4
252.07	253.90	1.83	1.91	104.4	1.15	60.2	4
253.90	258.17	4.27	4.37	102.3	1.11	25.4	4
258.17	262.74	4.57	4.40	96.3	2.16	49.1	4
262.74	267.31	4.57	4.44	97.2	3.01	67.8	4
267.31	270.36	3.05	3.05	100.0	2.23	73.1	4
270.36	273.41	3.05	2.78	91.1	1.75	62.9	4
273.41	276.45	3.04	3.02	99.3	1.74	57.6	4
276.45	279.50	3.05	2.93	96.1	1.18	40.3	4
279.50	282.55	3.05	2.98	97.7	0.56	18.8	4
282.55	285.60	3.05	3.00	98.4	1.63	54.3	4
285.60	288.65	3.05	3.12	102.3	1.33	42.6	4
288.65	291.09	2.44	2.50	102.5	0.26	10.4	4
291.09	294.79	3.70	1.60	43.2	0.59	36.9	4
294.79	297.79	3.00	4.09	136.3	2.41	58.9	4
297.79	300.84	3.05	2.70	88.5	0.40	14.8	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
300.84	302.36	1.52	0.90	59.2	0.00	0.0	4
302.36	305.91	3.55	2.20	62.0	0.00	0.0	4
305.91	308.76	2.85	2.45	86.0	0.00	0.0	4
308.76	312.72	3.96	3.50	88.4	0.00	0.0	4
312.72	315.77	3.05	2.30	75.4	0.00	0.0	4
315.77	319.13	3.36	2.84	84.5	0.38	13.4	4
319.13	322.17	3.04	2.09	68.7	0.00	0.0	4
322.17	325.83	3.66	2.91	79.5	0.00	0.0	4
325.83	328.88	3.05	2.89	94.8	0.88	30.4	4
328.88	331.93	3.05	2.67	87.5	0.00	0.0	4
331.93	334.37	2.44	2.67	109.4	1.75	65.5	4
334.37	340.46	6.09	5.97	98.0	4.38	73.4	4
340.46	346.56	6.10	6.24	102.3	4.81	77.1	4
346.56	352.65	6.09	6.16	101.1	4.92	79.9	4
352.65	358.75	6.10	6.14	100.7	4.61	75.1	4
358.75	364.85	6.10	6.23	102.1	3.91	62.8	4
364.85	370.94	6.09	6.11	100.3	3.61	59.1	4
370.94	377.04	6.10	6.20	101.6	3.72	60.0	4
377.04	383.13	6.09	6.20	101.8	4.37	70.5	4
383.13	389.23	6.10	6.14	100.7	4.15	67.6	4
389.23	395.33	6.10	6.07	99.5	4.23	69.7	4
395.33	401.42	6.09	6.05	99.3	5.07	83.8	4
401.42	404.47	3.05	3.07	100.7	2.83	92.2	4
404.47	407.52	3.05	3.03	99.3	2.39	78.9	4
407.52	410.57	3.05	3.04	99.7	2.45	80.6	4
410.57	413.61	3.04	3.21	105.6	2.54	79.1	4
413.61	416.66	3.05	3.09	101.3	2.55	82.5	4
416.66	419.71	3.05	3.02	99.0	2.38	78.8	4
419.71	422.76	3.05	3.04	99.7	2.41	79.3	4
422.76	425.81	3.05	3.04	99.7	2.40	78.9	4
425.81	428.85	3.04	3.04	100.0	1.62	53.3	4
428.85	431.90	3.05	3.00	98.4	2.85	95.0	4
431.90	434.95	3.05	3.11	102.0	2.68	86.2	4
434.95	438.00	3.05	3.07	100.7	2.11	68.7	4
438.00	441.05	3.05	3.04	99.7	2.24	73.7	4
441.05	444.09	3.04	3.08	101.3	2.14	69.5	4
444.09	447.14	3.05	3.22	105.6	2.46	76.4	4
447.14	450.19	3.05	3.12	102.3	3.03	97.1	4
450.19	453.24	3.05	2.92	95.7	2.30	78.8	4
453.24	456.29	3.05	3.14	103.0	2.91	92.7	4
456.29	459.33	3.04	2.96	97.4	2.18	73.6	4
459.33	462.38	3.05	3.02	99.0	2.37	78.5	4
462.38	465.43	3.05	2.98	97.7	2.54	85.2	4
465.43	468.48	3.05	3.30	108.2	1.95	59.1	4
468.48	474.57	6.09	6.17	101.3	4.90	79.4	4
474.57	480.67	6.10	6.02	98.7	5.05	83.9	4
480.67	486.77	6.10	6.08	99.7	4.84	79.6	4
486.77	492.86	6.09	6.19	101.6	5.69	91.9	4
492.86	498.96	6.10	6.03	98.9	4.47	74.1	4
498.96	505.05	6.09	6.18	101.5	4.89	79.1	4
505.05	511.15	6.10	6.05	99.2	3.37	55.7	4
511.15	517.25	6.10	6.02	98.7	3.70	61.5	4
517.25	523.34	6.09	6.07	99.7	4.28	70.5	4
523.34	529.44	6.10	5.73	93.9	4.31	75.2	4
529.44	532.49	3.05	3.23	105.9	2.30	71.2	4
532.49	535.53	3.04	2.75	90.5	1.14	41.5	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
535.53	538.58	3.05	2.91	95.4	2.42	83.2	4
538.58	541.63	3.05	2.69	88.2	1.56	58.0	4
541.63	544.68	3.05	2.91	95.4	2.71	93.1	4
544.68	547.73	3.05	3.22	105.6	3.02	93.8	4
547.73	550.77	3.04	3.01	99.0	2.84	94.4	4
550.77	553.82	3.05	2.87	94.1	2.48	86.4	4
553.82	556.87	3.05	2.78	91.1	1.68	60.4	4
556.87	559.92	3.05	2.84	93.1	2.13	75.0	4
559.92	562.97	3.05	3.04	99.7	1.92	63.2	4
562.97	566.01	3.04	2.72	89.5	1.73	63.6	4
566.01	569.06	3.05	2.97	97.4	2.54	85.5	4
569.06	572.11	3.05	2.87	94.1	2.40	83.6	5
572.11	575.16	3.05	2.96	97.0	2.75	92.9	5
575.16	578.21	3.05	3.02	99.0	2.53	83.8	5
578.21	581.25	3.04	2.70	88.8	2.28	84.4	5
581.25	584.30	3.05	3.04	99.7	2.30	75.7	5
584.30	587.35	3.05	2.87	94.1	1.90	66.2	5
587.35	590.40	3.05	2.96	97.0	2.54	85.8	5
590.40	593.45	3.05	3.04	99.7	2.32	76.3	5
593.45	596.49	3.04	2.74	90.1	1.99	72.6	5
596.49	602.59	6.10	5.03	82.5	3.26	64.8	5
602.59	605.64	3.05	3.04	99.7	1.58	52.0	4
605.64	611.73	6.09	5.28	86.7	2.78	52.7	4
611.73	614.78	3.05	2.91	95.4	1.72	59.1	4
614.78	620.88	6.10	5.93	97.2	3.80	64.1	4
620.88	626.97	6.09	6.01	98.7	3.82	63.6	4
626.97	633.07	6.10	5.83	95.6	3.92	67.2	4
633.07	639.17	6.10	6.03	98.9	3.86	64.0	4
639.17	642.21	3.04	2.85	93.7	1.21	42.5	4
642.21	645.26	3.05	2.86	93.8	1.88	65.7	4
645.26	648.31	3.05	3.07	100.7	2.25	73.3	4
648.31	651.36	3.05	2.82	92.5	1.62	57.4	4
651.36	654.41	3.05	2.87	94.1	1.35	47.0	4
654.41	657.45	3.04	3.02	99.3	1.91	63.2	4
657.45	660.50	3.05	3.00	98.4	2.35	78.3	4
660.50	663.55	3.05	2.80	91.8	1.92	68.6	4
663.55	666.68	3.13	2.98	95.2	2.30	77.2	5
666.68	669.65	2.97	2.88	97.0	2.30	79.9	5
669.65	672.69	3.04	3.06	100.7	2.97	97.1	5
672.69	675.74	3.05	2.98	97.7	2.32	77.9	5
675.74	678.79	3.05	3.08	101.0	2.59	84.1	5
678.79	681.84	3.05	3.01	98.7	2.13	70.8	5
681.84	687.93	6.09	5.85	96.1	4.63	79.1	5
687.93	694.03	6.10	6.08	99.7	5.63	92.6	5
694.03	700.12	6.09	5.68	93.3	4.45	78.3	5
700.12	706.22	6.10	5.98	98.0	4.89	81.8	5
706.22	712.32	6.10	4.84	79.3	3.96	81.8	5
712.32	718.41	6.09	6.13	100.7	4.93	80.4	5
718.41	721.46	3.05	3.36	110.2	3.03	90.2	5
721.46	724.51	3.05	3.03	99.3	1.19	39.3	5
724.51	726.69	2.18	2.01	92.2	4.77	237.3	5
726.69	727.56	0.87	0.91	104.6	0.79	86.8	5
727.56	730.61	3.05	3.03	99.3	2.66	87.8	5
730.61	736.70	6.09	5.58	91.6	4.07	72.9	5
736.70	739.75	3.05	3.01	98.7	2.83	94.0	5
739.75	742.80	3.05	2.73	89.5	2.10	76.9	5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
742.80	745.85	3.05	2.93	96.1	2.26	77.1	5
745.85	748.89	3.04	3.07	101.0	2.27	73.9	5
748.89	751.44	2.55	2.94	115.3	2.19	74.5	5
751.44	754.99	3.55	3.07	86.5	1.98	64.5	5
754.99	761.09	6.10	5.33	87.4	3.29	61.7	5
761.09	767.18	6.09	6.04	99.2	5.29	87.6	5
767.18	773.28	6.10	4.74	77.7	2.24	47.3	5
773.28	776.33	3.05	2.92	95.7	2.49	85.3	5
776.33	782.42	6.09	6.83	112.2	4.06	59.4	4/5
782.42	788.52	6.10	5.66	92.8	3.76	66.4	4/5
788.52	791.57	3.05	2.86	93.8	1.84	64.3	4/5
791.57	794.61	3.04	2.87	94.4	1.32	46.0	4/5
794.61	797.66	3.05	2.82	92.5	2.42	85.8	4/5
797.66	800.71	3.05	2.99	98.0	1.78	59.5	4/5
800.71	803.76	3.05	2.91	95.4	1.12	38.5	4/5
803.76	806.80	3.04	3.05	100.3	2.34	76.7	5
806.80	809.84	3.04	3.05	100.3	2.69	88.2	5
809.84	812.90	3.06	3.06	100.0	2.54	83.0	5
812.90	815.95	3.05	3.05	100.0	1.79	58.7	5
815.95	819.00	3.05	3.00	98.4	1.79	59.7	5
819.00	822.05	3.05	2.89	94.8	1.52	52.6	4/5
822.05	825.09	3.04	3.08	101.3	2.44	79.2	5
825.09	828.14	3.05	2.89	94.8	2.73	94.5	5
828.14	831.19	3.05	3.03	99.3	2.77	91.4	5
831.19	834.24	3.05	2.97	97.4	2.33	78.5	5
834.24	837.29	3.05	3.20	104.9	2.98	93.1	5
837.29	843.38	6.09	6.04	99.2	5.20	86.1	5
843.38	846.43	3.05	3.09	101.3	2.33	75.4	5
846.43	849.48	3.05	3.05	100.0	2.02	66.2	5
849.48	852.53	3.05		N/A		N/A	N/A
852.53	855.57	3.04		N/A		N/A	N/A
855.57	858.62	3.05	2.96	97.0	1.39	47.0	4
858.62	861.67	3.05	2.83	92.8	1.32	46.6	4
861.67	864.72	3.05	3.00	98.4	1.69	56.3	4
864.72	870.81	6.09	6.03	99.0	4.07	67.5	4
870.81	876.91	6.10	6.01	98.5	3.54	58.9	4
876.91	883.01	6.10	5.94	97.4	4.94	83.2	4
883.01	889.10	6.09	5.80	95.2	5.16	89.0	4
889.10	895.20	6.10	6.03	98.9	4.81	79.8	4
895.20	901.29	6.09	5.99	98.4	4.12	68.8	4
901.29	904.34	3.05	2.92	95.7	2.25	77.1	4
904.34	907.39	3.05	2.97	97.4	1.83	61.6	4
907.39	910.44	3.05	3.03	99.3	2.08	68.6	4
910.44	913.49	3.05	3.02	99.0	2.47	81.8	4
913.49	916.53	3.04	2.95	97.0	2.52	85.4	4
916.53	919.58	3.05	2.78	91.1	0.67	24.1	4
919.58	925.68	6.10	6.09	99.8	4.91	80.6	4
925.68	931.77	6.09	5.69	93.4	3.12	54.8	4
931.77	937.87	6.10	5.97	97.9	3.15	52.8	4
937.87	943.97	6.10	5.58	91.5	3.93	70.4	4
943.97	950.06	6.09	5.25	86.2	2.14	40.8	4
950.06	956.16	6.10	6.01	98.5	2.90	48.3	4
956.16	962.25	6.09	6.06	99.5	4.44	73.3	4
962.25	968.35	6.10	6.08	99.7	3.48	57.2	4
968.35	974.45	6.10	6.05	99.2	6.00	99.2	4
974.45	980.54	6.09	5.87	96.4	3.99	68.0	4

Date: August, 23, 2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-24

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	11.28	11.28	0.28	2.5	0.00	0.0	1
11.28	12.80	1.52	0.30	19.7	0.00	0.0	1
12.80	15.24	2.44	0.24	9.8	0.00	0.0	1
15.24	16.76	1.52	0.23	15.1	0.00	0.0	1
16.76	18.29	1.53	0.20	13.1	0.00	0.0	1
18.29	19.81	1.52	0.38	25.0	0.00	0.0	1
19.81	21.34	1.53	0.40	26.1	0.00	0.0	1
21.34	22.86	1.52	0.60	39.5	0.00	0.0	1
22.86	24.38	1.52	0.33	21.7	0.12	36.4	2
24.38	25.91	1.53	0.49	32.0	0.00	0.0	1
25.91	27.43	1.52	0.40	26.3	0.00	0.0	1
27.43	28.96	1.53	0.60	39.2	0.00	0.0	1
28.96	30.48	1.52	1.02	67.1	0.00	0.0	1
30.48	32.00	1.52	1.50	98.7	0.00	0.0	1
32.00	33.53	1.53	0.30	19.6	0.00	0.0	1
33.53	35.05	1.52	0.39	25.7	0.00	0.0	1
35.05	36.58	1.53	0.34	22.2	0.00	0.0	1
36.58	38.10	1.52	0.43	28.3	0.00	0.0	1
38.10	39.62	1.52	0.54	35.5	0.00	0.0	1
39.62	41.15	1.53	0.60	39.2	0.00	0.0	1
41.15	42.67	1.52	0.60	39.5	0.00	0.0	1
42.67	44.20	1.53	0.75	49.0	0.00	0.0	1
44.20	45.72	1.52	0.89	58.6	0.00	0.0	1
45.72	47.24	1.52	1.39	91.4	0.00	0.0	1
47.24	48.77	1.53	1.35	88.2	0.00	0.0	1
48.77	50.09	1.32	0.85	64.4	0.00	0.0	1
50.09	51.82	1.73	0.70	40.5	0.00	0.0	1
51.82	53.34	1.52	0.92	60.5	0.00	0.0	1
53.34	54.86	1.52	0.90	59.2	0.00	0.0	1
54.86	56.39	1.53	0.44	28.8	0.00	0.0	1
56.39	57.91	1.52	0.20	13.2	0.00	0.0	1
57.91	59.44	1.53	1.03	67.3	0.00	0.0	1
59.44	60.96	1.52	1.15	75.7	0.00	0.0	1
60.96	62.48	1.52	0.87	57.2	0.00	0.0	1
62.48	64.01	1.53	0.62	40.5	0.00	0.0	1
64.01	65.53	1.52	0.61	40.1	0.00	0.0	1
65.53	67.06	1.53	0.75	49.0	0.00	0.0	1
67.06	68.58	1.52	0.71	46.7	0.00	0.0	1
68.58	70.10	1.52	0.85	55.9	0.00	0.0	1
70.10	71.63	1.53	1.18	77.1	0.00	0.0	1
71.63	73.15	1.52	1.26	82.9	0.00	0.0	1
73.15	74.68	1.53	0.94	61.4	0.00	0.0	1
74.68	76.20	1.52	0.84	55.3	0.00	0.0	1
76.20	77.72	1.52	0.94	61.8	0.00	0.0	1
77.72	79.25	1.53	1.00	65.4	0.00	0.0	1
79.25	80.77	1.52	1.18	77.6	0.00	0.0	1
80.77	83.82	3.05	1.00	32.8	0.00	0.0	1
83.82	85.34	1.52	0.00	0.0	0.00	0.0	1
85.34	88.39	3.05	0.90	29.5	0.00	0.0	1
88.39	91.44	3.05	1.53	50.2	1.15	75.2	3

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
91.44	94.49	3.05	3.12	102.3	2.95	94.6	3
94.49	97.54	3.05	3.02	99.0	3.02	100.0	5
97.54	100.58	3.04	2.78	91.4	2.49	89.6	5
100.58	103.63	3.05	2.87	94.1	2.64	92.0	5
103.63	106.68	3.05	2.85	93.4	2.58	90.5	5
106.68	109.73	3.05	2.87	94.1	2.61	90.9	5
109.73	112.78	3.05	2.60	85.2	2.35	90.4	5
112.78	115.82	3.04	2.97	97.7	2.88	97.0	5
115.82	118.87	3.05	3.01	98.7	2.98	99.0	5
118.87	121.92	3.05	3.04	99.7	3.03	99.7	5
121.92	124.97	3.05	3.05	100.0	2.85	93.4	5
124.97	128.02	3.05	3.01	98.7	2.78	92.4	5
128.02	131.06	3.04	2.91	95.7	2.82	96.9	5
131.06	134.11	3.05	3.00	98.4	2.62	87.3	5
134.11	137.16	3.05	2.98	97.7	2.92	98.0	5
137.16	140.21	3.05	2.89	94.8	2.67	92.4	5
140.21	143.26	3.05	2.99	98.0	2.96	99.0	5
143.26	146.30	3.04	2.95	97.0	2.82	95.6	5
146.30	149.35	3.05	3.05	100.0	2.75	90.2	5
149.35	152.40	3.05	3.08	101.0	2.34	76.0	5
152.40	155.46	3.06	2.99	97.7	2.66	89.0	5
155.46	158.50	3.04	3.08	101.3	2.95	95.8	5
158.50	161.54	3.04	2.91	95.7	2.59	89.0	5
161.54	164.59	3.05	3.11	102.0	2.78	89.4	5
164.59	167.64	3.05	3.10	101.6	2.38	76.8	5
167.64	170.69	3.05	2.86	93.8	2.55	89.2	5
170.69	173.74	3.05	2.86	93.8	2.63	92.0	5
173.74	176.78	3.04	3.01	99.0	2.74	91.0	5
176.78	179.83	3.05	2.94	96.4	2.56	87.1	5
179.83	182.88	3.05	2.95	96.7	2.49	84.4	5
182.88	185.93	3.05	3.10	101.6	2.63	84.8	5
185.93	188.98	3.05	3.10	101.6	2.69	86.8	5
188.98	192.02	3.04	3.00	98.7	2.08	69.3	5
192.02	195.07	3.05	3.05	100.0	2.88	94.4	5
195.07	198.12	3.05	3.01	98.7	2.65	88.0	5
198.12	201.17	3.05	3.02	99.0	2.42	80.1	5
201.17	204.22	3.05	3.07	100.7	2.47	80.5	5
204.22	207.26	3.04	3.02	99.3	2.78	92.1	5
207.26	210.31	3.05	3.01	98.7	2.86	95.0	5
210.31	213.36	3.05	3.05	100.0	1.84	60.3	5
213.36	216.41	3.05	3.02	99.0	2.41	79.8	5
216.41	219.46	3.05	3.01	98.7	2.57	85.4	5
219.46	222.50	3.04	2.95	97.0	2.40	81.4	5
222.50	225.25	2.75	3.02	109.8	2.64	87.4	5
225.25	228.60	3.35	2.98	89.0	2.74	91.9	5
228.60	231.65	3.05	3.01	98.7	2.61	86.7	5
231.65	234.70	3.05	2.96	97.0	2.87	97.0	5
234.70	237.74	3.04	3.04	100.0	2.69	88.5	5
237.74	243.84	6.10	3.00	49.2	2.84	94.7	5
243.84	246.89	3.05	2.94	96.4	2.84	96.6	5
246.89	249.94	3.05	3.08	101.0	3.01	97.7	5
249.94	252.98	3.04	3.11	102.3	3.07	98.7	4.5
252.98	256.03	3.05	3.02	99.0	2.69	89.1	5
256.03	259.08	3.05	3.00	98.4	2.38	79.3	5
259.08	262.13	3.05	3.01	98.7	2.49	82.7	5
262.13	265.18	3.05	2.87	94.1	2.58	89.9	5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
265.18	268.22	3.04	3.05	100.3	2.88	94.4	5
268.22	271.27	3.05	2.80	91.8	2.10	75.0	5
271.27	274.32	3.05	2.97	97.4	2.93	98.7	5
274.32	277.37	3.05	2.74	89.8	1.69	61.7	4.5
277.37	280.42	3.05	3.06	100.3	2.63	85.9	4.5
280.42	283.46	3.04	3.06	100.7	2.61	85.3	5
283.46	286.51	3.05	2.94	96.4	2.79	94.9	5
286.51	289.56	3.05	3.04	99.7	1.67	54.9	5
289.56	292.61	3.05	3.01	98.7	2.23	74.1	5
292.61	295.66	3.05	2.98	97.7	0.55	18.5	5
295.66	298.70	3.04	3.03	99.7	1.98	65.3	4.5
298.70	301.75	3.05	2.89	94.8	2.26	78.2	5
301.75	304.80	3.05	2.98	97.7	1.94	65.1	4.5
304.80	307.85	3.05	3.06	100.3	2.74	89.5	4.5
307.85	310.90	3.05	3.07	100.7	2.82	91.9	4.5
310.90	313.94	3.04	3.09	101.6	2.05	66.3	4.5
313.94	316.99	3.05	2.96	97.0	2.72	91.9	5
316.99	320.04	3.05	2.98	97.7	2.89	97.0	5
320.04	323.09	3.05	3.06	100.3	2.83	92.5	5
323.09	326.14	3.05	3.05	100.0	2.71	88.9	5
326.14	329.18	3.04	3.06	100.7	2.97	97.1	4.5
329.18	332.23	3.05	3.07	100.7	2.93	95.4	5
332.23	335.28	3.05	3.00	98.4	2.86	95.3	5
335.28	338.33	3.05	3.04	99.7	2.84	93.4	5
338.33	341.38	3.05	2.97	97.4	2.73	91.9	5
341.38	344.42	3.04	3.03	99.7	1.58	52.1	5
344.42	347.47	3.05	3.04	99.7	0.85	28.0	4.5
347.47	350.52	3.05	3.03	99.3	1.84	60.7	4.5
350.52	353.57	3.05	3.04	99.7	2.09	68.8	4.5
353.57	356.62	3.05	3.01	98.7	2.37	78.7	5
356.62	359.66	3.04	3.10	102.0	2.12	68.4	5
359.66	362.71	3.05	3.05	100.0	1.77	58.0	5
362.71	365.76	3.05	3.22	105.6	2.73	84.8	5
365.76	368.81	3.05	2.85	93.4	2.31	81.1	4.5
368.81	371.86	3.05	3.01	98.7	2.10	69.8	5
371.86	374.90	3.04	3.11	102.3	2.28	73.3	5
374.90	377.95	3.05	3.05	100.0	2.56	83.9	5
377.95	381.00	3.05	2.91	95.4	2.18	74.9	5
381.00	384.05	3.05	3.02	99.0	2.85	94.4	5
384.05	387.10	3.05	3.04	99.7	2.14	70.4	5
387.10	390.14	3.04	2.91	95.7	1.88	64.6	4.5
390.14	393.19	3.05	2.74	89.8	1.58	57.7	4.5
393.19	396.24	3.05	3.00	98.4	2.42	80.7	4.5
396.24	399.29	3.05	3.00	98.4	2.29	76.3	4.5
399.29	402.34	3.05	2.92	95.7	2.89	99.0	4.5
402.34	405.38	3.04	2.68	88.2	1.17	43.7	4.5
405.38	408.43	3.05	2.90	95.1	1.57	54.1	4.5
408.43	411.48	3.05	2.83	92.8	1.31	46.3	4.5
411.48	414.53	3.05	2.83	92.8	1.17	41.3	5
414.53	417.58	3.05	2.75	90.2	1.16	42.2	4.5
417.58	420.62	3.04	2.99	98.4	1.71	57.2	
420.62	423.67	3.05	2.85	93.4	1.79	62.8	
423.67	426.72	3.05	2.96	97.0	2.12	71.6	
426.72	429.77	3.05	2.81	92.1	2.04	72.6	
429.77	432.82	3.05	2.99	98.0	2.51	83.9	
432.82	435.86	3.04	3.03	99.7	2.63	86.8	

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
435.86	438.91	3.05	2.83	92.8	2.48	87.6	
438.91	441.96	3.05	3.00	98.4	2.69	89.7	
441.96	445.01	3.05	2.77	90.8	2.09	75.5	
445.01	448.06	3.05	2.95	96.7	2.53	85.8	
448.06	451.10	3.04	2.98	98.0	2.79	93.6	
451.10	454.15	3.05					
454.15	457.20	3.05	3.07	100.7	2.59	84.4	
457.20	460.25	3.05	2.99	98.0	2.28	76.3	
460.25	463.30	3.05	2.80	91.8	1.49	53.2	
463.30	466.34	3.04	2.75	90.5	1.86	67.6	
466.34	469.39	3.05	3.03	99.3	1.67	55.1	
469.39	472.44	3.05	2.78	91.1	2.10	75.5	
472.44	475.49	3.05	2.66	87.2	0.92	34.6	
475.49	478.54	3.05	2.94	96.4	1.36	46.3	
478.54	481.58	3.04	2.72	89.5	1.11	40.8	
481.58	484.63	3.05	2.98	97.7	1.61	54.0	
484.63	487.68	3.05	2.45	80.3	1.80	73.5	
487.68	490.73	3.05	2.90	95.1	1.76	60.7	
490.73	493.78	3.05	2.97	97.4	1.33	44.8	
493.78	496.82	3.04	2.78	91.4	1.30	46.8	
496.82	499.87	3.05	3.07	100.7	2.28	74.3	
499.87	502.92	3.05	2.97	97.4	2.16	72.7	
502.92	505.97	3.05	2.94	96.4	2.33	79.3	
505.97	509.02	3.05	2.98	97.7	2.08	69.8	
509.02	512.06	3.04	2.94	96.7	1.06	36.1	
512.06	515.11	3.05	3.01	98.7	2.51	83.4	
515.11	518.16	3.05	3.05	100.0	2.21	72.5	
518.16	521.21	3.05	3.05	100.0	2.54	83.3	5
521.21	524.26	3.05	3.01	98.7	2.80	93.0	5
524.26	527.30	3.04	3.05	100.3	2.38	78.0	5
527.30	530.35	3.05	3.00	98.4	2.54	84.7	5
530.35	533.40	3.05	3.20	104.9	2.33	72.8	5
533.40	536.45	3.05	2.80	91.8	1.37	48.9	5
536.45	539.50	3.05	2.90	95.1	1.26	43.4	5
539.50	542.54	3.04	2.80	92.1	0.51	18.2	5
542.54	545.59	3.05	2.92	95.7	1.14	39.0	5
545.59	548.64	3.05	3.11	102.0	2.34	75.2	5
548.64	551.69	3.05	3.05	100.0	2.14	70.2	5
551.69	554.74	3.05	3.05	100.0	1.71	56.1	5
554.74	557.78	3.04	2.75	90.5	1.43	52.0	5
557.78	560.83	3.05	3.10	101.6	0.21	6.8	5
560.83	563.88	3.05	2.89	92.8	1.45	51.2	5
563.88	566.93	3.05	2.78	91.1	0.68	24.5	5
566.93	569.98	3.05	3.06	100.3	0.74	24.2	4
569.98	573.02	3.04	2.85	93.8	1.02	35.8	4
573.02	576.07	3.05	3.00	98.4	1.65	55.0	4
576.07	579.12	3.05	4.30	141.0	1.30	30.2	4
579.12	582.17	3.05	2.90	95.1	0.64	22.1	4
582.17	585.22	3.05	2.85	93.4	0.56	19.6	4
585.22	588.26	3.04	3.02	99.3	0.21	7.0	4
588.26	591.31	3.05	4.16	136.4	1.03	24.8	4
591.31	594.36	3.05	2.94	96.4	1.03	35.0	4
594.36	597.41	3.05	2.92	95.7	1.01	34.6	4
597.41	600.46	3.05	2.91	95.4	0.61	21.0	4
600.46	603.50	3.04	1.75	57.6	0.42	24.0	4
603.50	606.55	3.05	3.39	111.1	1.11	32.7	4

Date: Aug 25/02

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-25

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.96	3.96	0.54	13.6	0.18	33.3	3
3.96	5.49	1.53	1.33	86.9	0.00	0.0	3
5.49	7.01	1.52	1.28	84.2	0.52	40.6	3
7.01	8.84	1.83	1.49	81.4	0.45	30.2	3
8.84	9.75	0.91	0.89	97.8	0.53	59.6	3
9.75	11.58	1.83	1.35	73.8	0.22	16.3	1
11.58	12.80	1.22	0.96	78.7	0.00	0.0	3
12.80	14.33	1.53	0.95	62.1	0.16	16.8	3
14.33	15.85	1.52	1.18	77.6	0.28	23.7	3
15.85	17.37	1.52	0.34	22.4	0.00	0.0	3
17.37	18.90	1.53	1.30	85.0	0.00	0.0	3
18.90	20.42	1.52	1.26	82.9	0.00	0.0	3
20.42	21.95	1.53	1.31	85.6	0.38	29.0	3
21.95	23.47	1.52	1.38	90.8	0.32	23.2	3
23.47	24.99	1.52	0.94	61.8	0.57	60.6	3
24.99	26.52	1.53	1.22	79.7	0.10	8.2	3
26.52	29.57	3.05	1.50	49.2	0.51	34.0	3
29.57	31.09	1.52	2.07	136.2	0.41	19.8	3
31.09	34.14	3.05	2.28	74.8	0.73	32.0	4
34.14	35.66	1.52	1.37	90.1	0.45	32.8	4
35.66	37.19	1.53	1.32	86.3	0.70	53.0	3
37.19	40.23	3.04	2.90	95.4	1.09	37.6	3
40.23	41.76	1.53	1.35	88.2	0.45	33.3	4
41.76	43.28	1.52	1.28	84.2	0.46	35.9	4
43.28	44.81	1.53	1.33	86.9	0.84	63.2	3.5
44.81	46.33	1.52	1.31	86.2	0.98	74.8	3.5
46.33	47.85	1.52	1.37	90.1	0.95	69.3	3.5
47.85	49.38	1.53	1.37	89.5	1.22	89.1	4.5
49.38	50.90	1.52	1.41	92.8	1.13	80.1	3
50.90	52.43	1.53	1.42	92.8	0.60	42.3	4
52.43	53.95	1.52	1.48	97.4	1.06	71.6	4
53.95	55.47	1.52	1.41	92.8	0.87	61.7	3.5
55.47	57.00	1.53	1.33	86.9	0.56	42.1	3.5
57.00	57.91	0.91	0.87	95.6	0.70	80.5	3.5
57.91	61.57	3.66	3.00	82.0	1.96	65.3	3
61.57	64.92	3.35	2.88	86.0	1.84	63.9	3
64.92	69.19	4.27	3.49	81.7	1.11	31.8	3
69.19	72.54	3.35	2.80	83.6	0.65	23.2	4
72.54	78.33	5.79	3.87	66.8	0.29	7.5	3
78.33	81.99	3.66	3.18	86.9	0.45	14.2	3
81.99	84.43	2.44	1.82	74.6	0.54	29.7	3.5
84.43	87.17	2.74	1.79	65.3	0.32	17.9	4
87.17	89.00	1.83	1.64	89.6	0.64	39.0	3.5
89.00	93.57	4.57	3.50	76.6	0.96	27.4	3.5
93.57	96.62	3.05	2.20	72.1	0.79	35.9	3.5
96.62	101.19	4.57	4.27	93.4	2.27	53.2	3.5
101.19	105.77	4.58	4.50	98.3	1.84	40.9	3.5
105.77	109.12	3.35	3.13	93.4	0.77	24.6	3.5
109.12	112.17	3.05	2.09	68.5	0.51	24.4	4
112.17	117.96	5.79	5.11	88.3	2.36	46.2	3

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
117.96	121.62	3.66	2.78	76.0	0.47	16.9	2
121.62	127.10	5.48	5.05	92.2	2.30	45.5	3
127.10	133.20	6.10	2.73	44.8	1.70	62.3	1
133.20	139.29	6.09	5.96	97.9	2.74	46.0	1
139.29	145.39	6.10	5.60	91.8	2.79	49.8	3
145.39	149.66	4.27	3.97	93.0	1.51	38.0	4
149.66	154.53	4.87	4.09	84.0	1.23	30.1	4
154.53	160.63	6.10	5.63	92.3	3.18	56.5	4
160.63	166.42	5.79	5.20	89.8	2.57	49.4	4
166.42	169.77	3.35	2.93	87.5	1.81	61.8	4
169.77	175.87	6.10	5.09	83.4	3.10	60.9	4
175.87	181.97	6.10	5.52	90.5	2.79	50.5	4
181.97	188.06	6.09	5.35	87.8	3.87	72.3	4
188.06	194.16	6.10	5.60	91.8	4.12	73.6	4
194.16	200.25	6.09	5.52	90.6	3.99	72.3	4
200.25	205.44	5.19	4.37	84.2	2.03	46.5	4
205.44	211.84	6.40	5.46	85.3	3.57	65.4	4
211.84	218.54	6.70	5.50	82.1	2.89	52.5	4
218.54	224.64	6.10	5.49	90.0	3.56	64.8	4
224.64	230.73	6.09	5.53	90.8	3.85	69.6	4
230.73	236.83	6.10	5.68	93.1	3.87	68.1	4
236.83	242.93	6.10	5.47	89.7	3.03	55.4	4
242.93	249.02	6.09	5.77	94.7	2.90	50.3	4
249.02	255.12	6.10	5.42	88.8	2.83	52.2	4
255.12	261.21	6.09	5.88	96.6	4.35	74.0	4
261.21	267.31	6.10	5.61	92.0	4.04	72.0	4
267.31	273.41	6.10	5.65	92.6	3.25	57.5	4
273.41	279.50	6.09	5.24	86.0	2.74	52.3	4
279.50	283.16	3.66	3.11	85.0	1.23	39.5	4
283.16	288.65	5.49	5.49	100.0	4.78	87.1	4
288.65	294.74	6.09	5.61	92.1	3.10	55.3	4
294.74	300.84	6.10	5.46	89.5	3.38	61.9	4
300.84	306.02	5.18	5.73	110.6	4.46	77.8	4
306.02	309.07	3.05	3.13	102.6	1.27	40.6	4
309.07	313.03	3.96	3.47	87.6	1.24	35.7	4
313.03	319.13	6.10	5.79	95.0	4.23	73.1	4
319.13	322.17	3.04	2.87	94.4	2.02	70.4	4
322.17	328.27	6.10	5.48	89.8	4.38	79.9	4
328.27	334.37	6.10	5.74	94.1	4.79	83.4	4
334.37	340.46	6.09	5.64	92.6	4.62	81.9	4
340.46	346.56	6.10	5.62	92.1	3.01	53.6	4
346.56	352.65	6.09	6.11	100.3	2.70	44.2	4
352.65	358.75	6.10	5.87	96.2	3.86	65.8	4
358.75	364.85	6.10	6.00	98.4	0.94	15.7	4
364.85	370.94	6.09	5.64	92.6	2.25	39.9	4
370.94	377.04	6.10	5.99	98.2	3.52	58.8	4
377.04	380.09	3.05	2.75	90.2	1.64	59.6	4
380.09	386.18	6.09	5.53	90.8	3.81	68.9	4
386.18	392.28	6.10	5.79	94.9	4.38	75.6	4
392.28	398.37	6.09	5.53	90.8	2.90	52.4	4
398.37	404.47	6.10	4.81	78.9	2.15	44.7	4
404.47	410.57	6.10	5.37	88.0	2.29	42.6	4
410.57	416.66	6.09	5.90	96.9	3.67	62.2	4
416.66	422.76	6.10	5.81	95.2	4.26	73.3	4
422.76	428.85	6.09	5.69	93.4	3.68	64.7	4
428.85	434.95	6.10	5.83	95.6	4.40	75.5	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
434.95	441.05	6.10	5.99	98.2	5.46	91.2	4
441.05	446.84	5.79					4
446.84	452.93	6.09	5.77	94.7	2.91	50.4	3
452.93	459.03	6.10	5.85	95.9	3.69	63.1	4
459.03	465.12	6.09	5.79	95.1	3.70	63.9	4
465.12	471.22	6.10	5.76	94.4	3.57	62.0	4
471.22	477.32	6.10	5.82	95.4	3.74	64.3	4
477.32	483.41	6.09	5.93	97.4	5.23	88.2	4
483.41	489.51	6.10	5.89	96.6	3.98	67.6	4
489.51	495.60	6.09	5.85	96.1	3.40	58.1	4
495.60	501.70	6.10	5.78	94.8	3.55	61.4	4
501.70	508.10	6.40	5.75	89.8	3.04	52.9	3.5
508.10	514.20	6.10	5.86	96.1	3.88	66.2	4
514.20	520.29	6.09	5.81	95.4	3.19	54.9	4
520.29	526.39	6.10	5.64	92.5	3.40	60.3	4
526.39	532.49	6.10	5.94	97.4	4.64	78.1	3.5
532.49	538.58	6.09	5.77	94.7	3.82	66.2	4.5
538.58	544.68	6.10	5.68	93.1	3.33	58.6	4.5
544.68	550.77	6.09	5.76	94.6	4.07	70.7	4.5
550.77	556.87	6.10	5.98	98.0	3.68	61.5	4
556.87	562.97	6.10	5.85	95.9	4.61	78.8	4
562.97	569.06	6.09	6.08	99.8	5.27	86.7	4
569.06	575.16	6.10	5.30	86.9	3.02	57.0	4.5
575.16	578.21	3.05	2.45	80.3	1.50	61.2	4.5
578.21	584.30	6.09	6.07	99.7	5.06	83.4	4.5
584.30	590.40	6.10	5.91	96.9	4.73	80.0	4.5
590.40	596.49	6.09	5.96	97.9	5.61	94.1	4.5
596.49	602.59	6.10	6.04	99.0	5.98	99.0	4.5
602.59	608.69	6.10	5.84	95.7	5.67	97.1	4.5
608.69	614.78	6.09	6.01	98.7	5.75	95.7	4.5
614.78	620.88	6.10	5.99	98.2	4.76	79.5	4.5
620.88	626.97	6.09	6.01	98.7	3.32	55.2	4.5
626.97	633.07	6.10	6.40	104.9	4.51	70.5	4.5
633.07	639.17	6.10	6.14	100.7	4.95	80.6	5
639.17	645.26	6.09	6.06	99.5	4.05	66.8	4.5
645.26	651.36	6.10	6.04	99.0	3.43	56.8	4.5
651.36	657.45	6.09	6.12	100.5	4.92	80.4	5
657.45	663.55	6.10	6.26	102.6	4.88	78.0	5
663.55	669.65	6.10	5.94	97.4	4.54	76.4	5
669.65	675.74	6.09	5.88	96.6	5.08	86.4	5
675.74	681.84	6.10	6.36	104.3	4.66	73.3	5
681.84	685.80	3.96	1.11	28.0	0.53	47.7	5
685.80	692.51	6.71	6.47	96.4	5.51	85.2	5
692.51	698.91	6.40	6.39	99.8	4.53	70.9	5
698.91	705.31	6.40	6.46	100.9	4.47	69.2	4
705.31	711.71	6.40	6.14	95.9	5.61	91.4	4
711.71	718.11	6.40	5.96	93.1	3.71	62.2	4.5
718.11	724.51	6.40	6.10	95.3	3.68	60.3	4
724.51	730.61	6.10	6.02	98.7	4.11	68.3	4
730.61	736.70	6.09	5.75	94.4	3.91	68.0	4
736.70	742.80	6.10	6.15	100.8	2.84	46.2	4
742.80	745.85	3.05	3.05	100.0	1.43	46.9	4
745.85	751.94	6.09	5.85	96.1	4.34	74.2	4
751.94	758.04	6.10	5.80	95.1	4.57	78.8	4
758.04	762.91	4.87	4.80	98.6	2.51	52.3	4
762.91	764.13	1.22	1.08	88.5	0.56	51.9	4

Date: August 19 /200

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-27

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
5.18	7.62	2.44	1.12	45.9	0.12	10.7	4
7.62	10.67	3.05	1.75	57.4	0.20	11.4	4
10.67	13.72	3.05	2.43	79.7	0.00	0.0	4
13.72	16.76	3.04	2.30	75.7	0.31	13.5	4
16.76	19.81	3.05	2.79	91.5	0.00	0.0	4
19.81	22.86	3.05	2.74	89.8	0.00	0.0	4
22.86	25.91	3.05	3.03	99.3	0.44	14.5	4
25.91	28.96	3.05	3.00	98.4	0.26	8.7	4
28.96	32.00	3.04	2.85	93.8	0.67	23.5	4
32.00	35.05	3.05	2.93	96.1	1.87	63.8	4
35.05	38.10	3.05	2.95	96.7	0.87	29.5	5
38.10	39.62	1.52	1.25	82.2	0.53	42.4	5
39.62	41.15	1.53	1.29	84.3	0.12	9.3	4
41.15	44.20	3.05	2.87	94.1	1.65	57.5	4
44.20	47.26	3.06	2.96	96.7	1.66	56.1	4
47.26	50.29	3.03	2.88	95.0	2.13	74.0	4
50.29	53.34	3.05	2.68	87.9	0.39	14.6	4
53.34	56.39	3.05	2.71	88.9	1.61	59.4	4
56.39	59.44	3.05	2.63	86.2	1.26	47.9	4
59.44	62.48	3.04	2.89	95.1	1.65	57.1	4
62.48	65.53	3.05	2.92	95.7	1.78	61.0	4
65.53	68.58	3.05	2.95	96.7	0.72	24.4	3
68.58	71.63	3.05	2.68	87.9	1.61	60.1	4
71.63	74.68	3.05	2.89	94.8	0.96	33.2	4
74.68	77.72	3.04	2.90	95.4	0.66	22.8	3
77.72	79.25	1.53	0.57	37.3	0.23	40.4	3
79.25	82.30	3.05	2.85	93.4	1.64	57.5	4
82.30	85.34	3.04	2.59	85.2	1.03	39.8	4
85.34	88.39	3.05	2.68	87.9	1.60	59.7	4
88.39	91.44	3.05	2.72	89.2	0.48	17.6	4
91.44	94.49	3.05	2.83	92.8	1.62	57.2	4
94.49	97.54	3.05	2.83	92.8	1.55	54.8	4
97.54	100.58	3.04	2.73	89.8	1.90	69.6	4
100.58	103.63	3.05	2.89	94.8	1.86	64.4	4
103.63	106.68	3.05	2.69	88.2	0.95	35.3	4
106.68	109.73	3.05	2.83	92.8	1.56	55.1	3.5
109.73	112.78	3.05	2.59	84.9	1.08	41.7	3.5
112.78	115.82	3.04	2.90	95.4	0.69	23.8	3.5
115.82	118.87	3.05	2.90	95.1	1.65	56.9	3.5
118.87	121.92	3.05	2.80	91.8	1.52	54.3	3.5
121.92	124.97	3.05	2.84	93.1	1.83	64.4	4
124.97	128.02	3.05	2.89	94.8	1.74	60.2	4
128.02	131.06	3.04	2.81	92.4	1.66	59.1	4
131.06	134.11	3.05	2.93	96.1	1.77	60.4	4
134.11	137.16	3.05	2.81	92.1	1.44	51.2	3.5
137.16	140.21	3.05	2.73	89.5	0.89	32.6	3.5
140.21	143.26	3.05	2.83	92.8	1.93	68.2	3.5
143.26	146.30	3.04	2.88	94.7	1.23	42.7	4
146.30	149.35	3.05	2.78	91.1	1.36	48.9	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
149.35	152.40	3.05	2.83	92.8	0.77	27.2	4
152.40	155.45	3.05	3.01	98.7	1.47	48.8	4
155.45	158.50	3.05	2.96	97.0	1.77	59.8	4
158.50	161.54	3.04	2.69	88.5	0.85	31.6	4
161.54	164.59	3.05	2.95	96.7	1.47	49.8	4
164.59	167.64	3.05	2.85	93.4	1.58	55.4	4
167.64	170.69	3.05	3.00	98.4	1.10	36.7	4
170.69	173.74	3.05	2.85	93.4	1.26	44.2	4
173.74	176.78	3.04	2.95	97.0	1.81	61.4	4
176.78	179.83	3.05	2.89	94.8	1.85	64.0	4
179.83	182.88	3.05	2.91	95.4	0.65	22.3	4
182.88	185.93	3.05	2.88	94.4	1.23	42.7	4
185.93	188.98	3.05	3.06	100.3	0.86	28.1	4
188.98	192.33	3.35	3.02	90.1	1.07	35.4	4
192.33	195.07	2.74	3.02	110.2	2.26	74.8	4
195.07	198.12	3.05	3.01	98.7	2.74	91.0	4
198.12	201.17	3.05	3.06	100.3	1.36	44.4	4
201.17	204.22	3.05	2.96	97.0	1.82	61.5	4
204.22	207.26	3.04	2.93	96.4	1.67	57.0	4
207.26	210.31	3.05	3.08	101.0	1.32	42.9	4
210.31	213.36	3.05	3.09	101.3	1.89	61.2	4
213.36	216.41	3.05	2.96	97.0	1.30	43.9	4
216.41	219.46	3.05	2.97	97.4	1.19	40.1	4
219.46	222.50	3.04	3.07	101.0	1.43	46.6	4
222.50	225.55	3.05	3.05	100.0	1.95	63.9	4
225.55	228.60	3.05	2.99	98.0	2.31	77.3	4
228.60	231.65	3.05	3.03	99.3	1.58	52.1	4
231.65	234.70	3.05	2.95	96.7	1.88	63.7	4
234.70	237.74	3.04	3.05	100.3	2.31	75.7	4
237.74	240.79	3.05	3.00	98.4	1.78	59.3	4
240.79	243.84	3.05	3.03	99.3	2.49	82.2	4
243.84	246.89	3.05	3.02	99.0	1.68	55.6	4
246.89	249.94	3.05	2.94	96.4	1.84	62.6	5
249.94	252.98	3.04	3.04	100.0	2.09	68.8	5
252.98	256.03	3.05	2.92	95.7	2.24	76.7	5
256.03	259.08	3.05	3.02	99.0	2.65	87.7	5
259.08	262.13	3.05	2.96	97.0	2.83	95.6	5
262.13	265.18	3.05	3.04	99.7	2.06	67.8	5
265.18	268.22	3.04	3.02	99.3	2.44	80.8	5
268.22	271.27	3.05	3.03	99.3	2.21	72.9	5
271.27	274.32	3.05	2.97	97.4	2.27	76.4	5
274.32	277.37	3.05	2.95	96.7	2.30	78.0	5
277.37	280.42	3.05	3.04	99.7	2.25	74.0	5
280.42	283.45	3.03	2.90	95.7	2.21	76.2	5
283.45	286.51	3.06	3.05	99.7	2.09	68.5	5
286.51	289.56	3.05	2.95	96.7	2.51	85.1	5
289.56	292.61	3.05	2.97	97.4	2.56	86.2	5
292.61	295.66	3.05	3.06	100.3	2.39	78.1	5
295.66	298.70	3.04	2.98	98.0	2.24	75.2	5
298.70	301.75	3.05	3.00	98.4	2.18	72.7	5
301.75	304.80	3.05	2.98	97.7	1.62	54.4	5
304.80	310.90	6.10	5.70	93.4	2.13	37.4	5
310.90	313.94	3.04	2.95	97.0	2.01	68.1	5
313.94	316.99	3.05	3.00	98.4	2.02	67.3	5
316.99	320.04	3.05	2.96	97.0	1.80	60.8	5
320.04	323.09	3.05	3.02	99.0	1.73	57.3	5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
323.09	326.14	3.05	2.84	93.1	0.94	33.1	5
326.14	329.18	3.04	3.04	100.0	1.54	50.7	5
329.18	332.23	3.05	2.92	95.7	1.57	53.8	5
332.23	335.28	3.05	3.01	98.7	1.41	46.8	5
335.28	338.33	3.05	2.86	93.8	1.63	57.0	4
338.33	344.42	6.09	5.88	96.6	2.93	49.8	5
344.42	347.47	3.05	2.99	98.0	2.13	71.2	5
347.47	350.52	3.05	2.97	97.4	2.15	72.4	5
350.52	353.57	3.05	2.98	97.7	2.19	73.5	4
353.57	356.62	3.05	2.91	95.4	1.59	54.6	5
356.62	359.66	3.04	2.99	98.4	1.59	53.2	5
359.66	362.71	3.05	2.97	97.4	1.50	50.5	5
362.71	366.06	3.35	3.10	92.5	1.11	35.8	5
366.06	368.81	2.75	3.12	113.5	1.57	50.3	5
368.81	371.86	3.05	3.04	99.7	1.80	59.2	5
371.86	374.90	3.04	3.00	98.7	2.36	78.7	5
374.90	377.95	3.05	2.95	96.7	2.17	73.6	5
377.95	381.00	3.05	3.03	99.3	1.94	64.0	5
381.00	384.05	3.05	2.93	96.1	2.20	75.1	5
384.05	387.10	3.05	2.99	98.0	1.71	57.2	5
387.10	390.14	3.04	2.99	98.4	1.73	57.9	5
390.14	393.19	3.05	2.99	98.0	2.32	77.6	5
393.19	396.24	3.05	2.95	96.7	1.51	51.2	5
396.24	399.29	3.05	2.97	97.4	1.56	52.5	5
399.29	402.34	3.05	3.02	99.0	1.52	50.3	5
402.34	405.38	3.04	2.98	98.0	1.86	62.4	5
405.38	408.43	3.05	3.03	99.3	1.60	52.8	5
408.43	411.48	3.05	2.92	95.7	1.82	62.3	5
411.48	414.53	3.05	3.12	102.3	1.71	54.8	5
414.53	417.58	3.05	3.00	98.4	2.28	76.0	5
417.58	420.62	3.04	2.89	95.1	1.61	55.7	5
420.62	423.67	3.05	3.06	100.3	1.90	62.1	5
423.67	426.72	3.05	2.97	97.4	2.21	74.4	5
426.72	429.77	3.05	3.09	101.3	2.19	70.9	5
429.77	432.82	3.05	2.99	98.0	2.54	84.9	5
432.82	435.86	3.04	2.97	97.7	1.81	60.9	5
435.86	438.91	3.05	3.02	99.0	1.84	60.9	5
438.91	441.96	3.05	3.02	99.0	1.76	58.3	5
441.96	445.01	3.05	2.98	97.7	2.03	68.1	5
445.01	448.06	3.05	2.96	97.0	2.28	77.0	5
448.06	451.10	3.04	3.06	100.7	2.00	65.4	5
451.10	454.15	3.05	3.03	99.3	2.17	71.6	5
454.15	457.20	3.05	3.06	100.3	1.89	61.8	5
457.20	460.25	3.05	3.04	99.7	1.82	59.9	5
460.25	463.30	3.05	2.83	92.8	1.67	59.0	5
463.30	466.34	3.04	2.95	97.0	1.95	66.1	5
466.34	469.39	3.05	2.84	93.1	1.73	60.9	5
469.39	472.44	3.05	2.65	86.9	0.68	25.7	5
472.44	475.49	3.05	2.96	97.0	1.37	46.3	5
475.49	478.54	3.05	3.00	98.4	2.08	69.3	5
478.54	481.58	3.04	2.89	95.1	1.34	46.4	5
481.58	484.63	3.05	2.81	92.1	0.96	34.2	5
484.63	487.68	3.05	3.00	98.4	1.54	51.3	5
487.68	490.73	3.05	2.93	96.1	1.18	40.3	5
490.73	493.78	3.05	2.96	97.0	1.65	55.7	5
493.78	496.82	3.04	2.95	97.0	1.06	35.9	5

Date: Aug 27/02

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole Hole KN-02-28

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	4.57	4.57	0.70	15.3	0.00	0.0	3
4.57	7.62	3.05	2.50	82.0	0.00	0.0	3
7.62	9.14	1.52	1.65	108.6	0.11	6.7	3
9.14	10.67	1.53	0.43	28.1	0.00	0.0	3
10.67	12.19	1.52	0.42	27.6	0.00	0.0	3
12.19	13.72	1.53	1.23	80.4	0.11	8.9	3
13.72	16.76	3.04	2.71	89.1	0.62	22.9	3
16.76	18.29	1.53	1.48	96.7	0.22	14.9	3
18.29	19.81	1.52	1.58	103.9	0.31	19.6	3
19.81	21.34	1.53	1.57	102.6	0.71	45.2	3
21.34	22.86	1.52	1.38	90.8	0.23	16.7	3
22.86	24.38	1.52	1.42	93.4	0.60	42.3	3
24.38	25.91	1.53	1.38	90.2	0.67	48.6	3
25.91	27.43	1.52	1.44	94.7	0.23	16.0	3
27.43	28.96	1.53	1.50	98.0	0.00	0.0	3
28.96	30.48	1.52	1.50	98.7	0.31	20.7	3
30.48	32.00	1.52	0.95	62.5	0.51	53.7	3
32.00	33.53	1.53	1.29	84.3	1.02	79.1	3
33.53	35.05	1.52	1.45	95.4	0.92	63.4	3
35.05	36.58	1.53	1.31	85.6	0.35	26.7	3.5
36.58	38.10	1.52	1.47	96.7	0.57	38.8	3.5
38.10	39.62	1.52	1.27	83.6	0.24	18.9	3.5
39.62	41.15	1.53	1.44	94.1	0.15	10.4	3
41.15	42.67	1.52	1.39	91.4	0.97	69.8	3.5
42.67	44.20	1.53	1.51	98.7	0.15	9.9	3
44.20	45.72	1.52	1.07	70.4	0.12	11.2	3
45.72	47.24	1.52	1.13	74.3	0.37	32.7	2
47.24	48.77	1.53	1.59	103.9	0.30	18.9	2
48.77	50.29	1.52	1.52	100.0	0.42	27.6	2
50.29	51.82	1.53	1.71	111.8	0.20	11.7	2
51.82	53.34	1.52	1.48	97.4	0.00	0.0	2
53.34	54.86	1.52	0.77	50.7	0.00	0.0	2
54.86	56.39	1.53	1.43	93.5	0.00	0.0	2
56.39	57.91	1.52	1.18	77.6	0.83	70.3	2
57.91	59.44	1.53	1.37	89.5	0.47	34.3	2
59.44	60.96	1.52	1.41	92.8	0.42	29.8	2
60.96	62.48	1.52	1.30	85.5	0.10	7.7	2
62.48	64.01	1.53	1.46	95.4	0.78	53.4	2
64.01	65.53	1.52	1.44	94.7	0.00	0.0	2
65.53	67.06	1.53	1.37	89.5	0.00	0.0	2
67.06	68.58	1.52	1.37	90.1	0.00	0.0	2
68.58	70.10	1.52	1.00	65.8	0.27	27.0	2
70.10	71.63	1.53	1.29	84.3	0.00	0.0	2
71.63	73.15	1.52	1.50	98.7	0.10	6.7	2
73.15	74.68	1.53	1.43	93.5	0.00	0.0	2
74.68	76.20	1.52	1.20	78.9	0.00	0.0	2
76.20	77.72	1.52	1.10	72.4	0.11	10.0	2
77.72	79.25	1.53	0.91	59.5	0.00	0.0	2
79.25	80.77	1.52	1.38	90.8	0.00	0.0	2

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
80.77	82.30	1.53	1.47	96.1	0.00	0.0	2
82.30	83.82	1.52	1.36	89.5	0.00	0.0	2
83.82	85.34	1.52	1.35	88.8	0.00	0.0	2
85.34	86.87	1.53	1.35	88.2	0.15	11.1	2
86.87	88.39	1.52	1.42	93.4	0.00	0.0	2
88.39	89.92	1.53	1.23	80.4	0.00	0.0	2
89.92	91.44	1.52	0.72	47.4	0.00	0.0	2
91.44	92.96	1.52	1.40	92.1	0.00	0.0	2
92.96	94.49	1.53	1.16	75.8	0.00	0.0	2
94.49	96.01	1.52	1.23	80.9	0.00	0.0	2
96.01	97.54	1.53	1.49	97.4	0.00	0.0	2
97.54	99.06	1.52	0.66	43.4	0.00	0.0	2
99.06	100.56	1.50	1.14	76.0	0.00	0.0	2
100.56	102.11	1.55	0.73	47.1	0.00	0.0	2
102.11	103.94	1.83	0.73	39.9	0.00	0.0	2
103.94	105.16	1.22	1.35	110.7	0.00	0.0	2
105.16	106.68	1.52	0.80	52.6	0.00	0.0	2
106.68	108.20	1.52	1.50	98.7	0.00	0.0	2
108.20	109.73	1.53	1.40	91.5	0.00	0.0	2
109.73	111.25	1.52	0.80	52.6	0.00	0.0	2
111.25	112.78	1.53	1.40	91.5	0.00	0.0	2
112.78	114.30	1.52	0.99	65.1	0.00	0.0	2
114.30	115.82	1.52	1.48	97.4	0.00	0.0	2
115.82	117.35	1.53	0.28	18.3	0.00	0.0	2
117.35	118.87	1.52	1.00	65.8	0.00	0.0	2
118.87	120.40	1.53	1.27	83.0	0.11	8.7	2
120.40	121.93	1.53	1.23	80.4	0.00	0.0	2
121.93	123.44	1.51	1.48	98.0	0.00	0.0	2
123.44	124.97	1.53	1.26	82.4	0.00	0.0	2
124.97	126.49	1.52	1.19	78.3	0.00	0.0	2
126.49	128.02	1.53	1.10	71.9	0.00	0.0	2
128.02	131.06	3.04	1.10	36.2	0.00	0.0	2
131.06	132.59	1.53	0.00	0.0	0.00	0.0	4
132.59	134.11	1.52	0.00	0.0	0.00	0.0	4
134.11	135.64	1.53	0.00	0.0	0.00	0.0	4
135.64	137.16	1.52	0.00	0.0	0.00	0.0	4
137.16	138.68	1.52	0.35	23.0	0.00	0.0	4
138.68	140.21	1.53	0.66	43.1	0.00	0.0	4
140.21	141.73	1.52	0.00	0.0	0.00	0.0	4
141.73	143.26	1.53	0.00	0.0	0.00	0.0	4
143.26	144.78	1.52	1.20	78.9	0.00	0.0	4
144.78	146.30	1.52	0.44	28.9	0.41	93.2	4
146.30	147.83	1.53	1.38	90.2	0.90	65.2	4
147.83	149.35	1.52	1.26	82.9	0.70	55.6	4
149.35	150.88	1.53	1.53	100.0	0.84	54.9	4
150.88	154.53	3.65	2.95	80.8	2.20	74.6	4
154.53	157.58	3.05	3.00	98.4	2.83	94.3	4
157.58	160.63	3.05	3.04	99.7	2.35	77.3	4
160.63	163.68	3.05	3.00	98.4	2.47	82.3	4
163.68	166.73	3.05	2.96	97.0	2.69	90.9	4
166.73	169.77	3.04	3.05	100.3	2.78	91.1	4
169.77	172.82	3.05	3.05	100.0	2.90	95.1	4
172.82	175.87	3.05	3.03	99.3	2.90	95.7	4
175.87	178.92	3.05	3.03	99.3	2.20	72.6	4
178.92	181.97	3.05	3.09	101.3	3.02	97.7	4
181.97	185.01	3.04	2.95	97.0	2.55	86.4	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
185.01	188.06	3.05	3.04	99.7	2.60	85.5	4
188.06	191.11	3.05	3.00	98.4	2.50	83.3	4
191.11	191.72	0.61	0.69	113.1	0.60	87.0	4
191.72	194.16	2.44	2.20	90.2	2.10	95.5	5
194.16	197.21	3.05	3.30	108.2	2.70	81.8	5
197.21	200.25	3.04	3.01	99.0	2.54	84.4	5
200.25	203.30	3.05	3.06	100.3	2.57	84.0	5
203.30	206.35	3.05	3.10	101.5	2.79	90.0	5
206.35	209.40	3.05	3.05	100.1	2.24	73.4	5
209.40	212.45	3.05	2.99	98.0	2.83	94.6	5
212.45	215.49	3.04	3.04	100.0	2.95	97.0	5
215.49	218.54	3.05	2.98	97.7	2.78	93.3	5
218.54	221.59	3.05	3.00	98.4	2.82	94.0	5
221.59	224.64	3.05	3.02	99.0	2.53	83.8	5
224.64	227.69	3.05	3.00	98.4	2.55	85.0	5
227.69	230.73	3.04	3.02	99.3	2.51	83.1	5
230.73	233.78	3.05	3.01	98.7	2.88	95.8	5
233.78	236.83	3.05	3.03	99.3	2.61	86.1	5
236.83	239.88	3.05	2.99	98.0	2.77	92.6	5
239.88	242.93	3.05	3.03	99.3	2.53	83.5	5
242.93	245.97	3.04	3.00	98.7	2.82	94.0	5
245.97	249.02	3.05	3.01	98.7	2.73	90.7	5
249.02	252.07	3.05	2.97	97.4	2.29	77.1	5
252.07	255.12	3.05	3.02	99.0	2.71	89.7	5
255.12	258.17	3.05	3.05	100.0	2.89	94.8	5
258.17	261.21	3.04	2.95	97.0	2.38	80.7	5
261.21	264.26	3.05	3.03	99.3	2.87	94.7	5
264.26	267.31	3.05	3.00	98.4	2.65	88.3	5
267.31	270.36	3.05	2.98	97.7	2.50	83.9	5
270.36	273.41	6.09	3.20	52.5	2.95	92.2	5
273.41	276.45		2.89		2.69	93.1	
276.45	279.50	3.05	2.92	95.7	2.51	86.0	5
279.50	282.55	3.05	3.00	98.4	2.81	93.7	5
282.55	285.60	3.05	2.97	97.4	2.42	81.5	5
285.60	288.65	3.05	3.03	99.3	1.56	51.5	5
288.65	291.69	3.04	2.98	98.0	2.16	72.5	5
291.69	294.74	3.05	3.00	98.4	2.48	82.7	5
294.74	297.79	3.05	2.83	92.8	2.28	80.6	5
297.79	300.84	3.05	3.00	98.4	2.33	77.7	5
300.84	303.89	3.05	2.96	97.0	2.90	98.0	5
303.89	306.93	3.04	3.04	100.0	2.56	84.2	5
306.93	309.98	3.05	2.95	96.7	2.17	73.6	5
309.98	313.03	3.05	2.94	96.4	1.70	57.8	5
313.03	316.08	3.05	3.00	98.4	2.47	82.3	5
316.08	319.13	3.05	3.00	98.4	2.71	90.3	5
319.13	322.17	3.04	2.97	97.7	2.49	83.8	5
322.17	325.22	3.05	2.98	97.7	2.62	87.9	5
325.22	328.27	3.05	3.02	99.0	2.80	92.7	5
328.27	331.32	3.05	2.92	95.7	2.46	84.2	5
331.32	334.37	3.05	2.97	97.4	2.43	81.8	5
334.37	337.41	3.04	2.91	95.7	2.11	72.5	5
337.41	340.46	3.05	2.98	97.7	2.04	68.5	5
340.46	343.51	3.05	3.03	99.3	2.31	76.2	5
343.51	346.56	3.05	2.92	95.7	2.00	68.5	5
346.56	349.61	3.05	3.02	99.0	1.75	57.9	5
349.61	352.65	3.04	2.97	97.7	1.80	60.6	5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
352.65	355.70	3.05	2.91	95.4	1.64	56.4	5
355.70	358.75	3.05	3.00	98.4	1.91	63.7	5
358.75	361.80	3.05	3.03	99.3	2.60	85.8	5
361.80	364.85	3.05	2.98	97.7	2.76	92.6	5
364.85	367.89	3.04	3.03	99.7	2.42	79.9	5
367.89	370.94	3.05	2.96	97.0	2.60	87.8	5
370.94	373.99	3.05	2.84	93.1	2.08	73.2	5
373.99	377.04	3.05	2.96	97.0	2.34	79.1	5
377.04	380.09	3.05	3.04	99.7	2.78	91.4	5
380.09	383.13	3.04	2.95	97.0	2.53	85.8	5
383.13	386.18	3.05	2.96	97.0	2.58	87.2	5
386.18	389.23	3.05	3.04	99.7	1.95	64.1	5
389.23	392.28	3.05	2.94	96.4	2.51	85.4	5
392.28	395.33	3.05	2.96	97.0	0.50	16.9	5
395.33	398.37	3.04	3.04	100.0	0.91	29.9	5
398.37	404.47	6.10	5.88	96.4	4.27	72.6	5
404.47	407.52	3.05	2.94	96.4	1.87	63.6	5
407.52	410.57	3.05	2.97	97.4	1.73	58.2	5
410.57	413.61	3.04	3.04	100.0	2.12	69.7	5
413.61	416.66	3.05	3.03	99.3	2.18	71.9	5
416.66	419.71	3.05	3.05	100.0	2.58	84.6	5
419.71	422.76	3.05	2.97	97.4	2.29	77.1	5
422.76	425.81	3.05	3.01	98.7	2.25	74.8	5
425.81	428.85	3.04	2.92	96.1	2.65	90.8	5
428.85	431.90	3.05	3.01	98.7	2.74	91.0	5
431.90	434.95	3.05	2.93	96.1	2.44	83.3	5
434.95	438.00	3.05	3.04	99.7	2.10	69.1	5
438.00	441.05	3.05	3.02	99.0	1.77	58.6	5
441.05	444.09	3.04	2.93	96.4	2.34	79.9	5
444.09	447.14	3.05	3.03	99.3	2.55	84.2	5
447.14	450.19	3.05	3.00	98.4	2.59	86.3	5
450.19	453.24	3.05	3.01	98.7	2.23	74.1	5
453.24	456.29	3.05	3.05	100.0	2.46	80.7	5
456.29	459.33	3.04	2.96	97.4	2.20	74.3	5
459.33	462.38	3.05	2.96	97.0	1.51	51.1	5
462.38	465.43	3.05	2.98	97.7	2.01	67.4	5
465.43	468.48	3.05	2.90	95.1	2.44	84.1	5
468.48	471.53	3.05	3.03	99.3	2.50	82.5	5
471.53	474.57	3.04	2.98	98.1	1.94	65.0	5
474.57	477.62	3.05	3.05	100.0	2.41	79.0	5
477.62	480.67	3.05	2.90	95.1	2.03	70.0	5
480.67	483.72	3.05	2.96	97.0	2.55	86.1	5
483.72	486.77	3.05	2.98	97.7	2.43	81.5	5
486.77	489.81	3.04	2.99	98.4	2.37	79.3	5
489.81	492.86	3.05	3.00	98.4	1.83	61.0	5
492.86	495.91	3.05	3.00	98.4	1.92	64.0	5
495.91	498.96	3.05	2.67	87.5	1.05	39.3	5
498.96	502.01	3.05	3.01	98.7	2.48	82.4	5
502.01	505.05	3.04	2.97	97.7	2.15	72.4	5
505.05	508.10	3.05	2.95	96.7	2.25	76.3	5
508.10	511.15	3.05	3.04	99.7	2.04	67.1	5
511.15	514.20	3.05	2.98	97.7	2.49	83.6	5
514.20	517.25	3.05	2.86	93.8	2.72	95.1	5
517.25	520.29	3.04	2.96	97.4	2.63	88.9	5
520.29	523.34	3.05	3.05	100.0	2.80	91.8	5
523.34	526.39	3.05	3.02	99.0	2.28	75.5	5

Date: August 15

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-29

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
3.05	4.88	1.83	1.26	68.9	0.89	70.6	
4.88	6.40	1.52	1.39	91.4	0.47	33.8	
6.40	7.92	1.52	1.46	96.1	0.73	50.0	
7.92	9.45	1.53	1.47	96.1	1.41	95.9	
9.45	11.28	1.83	1.59	86.9	1.15	72.3	
11.28	14.33	3.05	3.01	98.7	1.86	61.8	
14.33	15.85	1.52	1.30	85.5	0.90	69.2	
15.85	17.37	1.52	1.48	97.4	0.55	37.2	
17.37	18.90	1.53	1.35	88.2	1.08	80.0	
18.90	20.42	1.52	1.36	89.5	0.79	58.1	
20.42	21.95	1.53	1.39	90.8	0.67	48.2	
21.95	23.47	1.52	1.25	82.2	0.44	35.2	
23.47	24.99	1.52	1.34	88.2	0.58	43.3	3
24.99	26.52	1.53	1.51	98.7	1.19	78.8	3
26.52	28.04	1.52	1.25	82.2	0.70	56.0	3
28.04	29.57	1.53	1.43	93.5	1.23	86.0	3
29.57	31.09	1.52	1.52	100.0	1.20	78.9	3
31.09	32.61	1.52	1.44	94.7	0.58	40.3	3
32.61	34.14	1.53	1.43	93.5	1.08	75.5	3
34.14	35.66	1.52	1.50	98.7	1.30	86.7	3
35.66	36.58	0.92	0.84	91.3	0.79	94.0	3
36.58	41.76	5.18	4.61	89.0	2.80	60.7	3
41.76	47.85	6.09	5.91	97.0	4.49	76.0	3
47.85	52.12	4.27	4.85	113.6	2.80	57.7	3
52.12	58.52	6.40	5.86	91.6	3.85	65.7	3
58.52	64.92	6.40	6.08	95.0	5.38	88.5	3
64.92	71.02	6.10	5.68	93.1	3.90	68.7	4
71.02	77.42	6.40	6.08	95.0	3.58	58.9	4
77.42	83.82	6.40	5.99	93.6	5.13	85.6	4
83.82	88.70	4.88	4.23	86.7	2.15	50.8	3
88.70	95.10	6.40	6.05	94.5	4.80	79.3	3
95.10	101.50	6.40	6.06	94.7	4.36	71.9	3
101.50	107.90	6.40	6.09	95.2	4.62	75.9	3
107.90	114.00	6.10	4.87	79.8	3.58	73.5	2
114.00	117.65	3.65	3.00	82.2	2.21	73.7	2
117.65	124.05	6.40	6.29	98.3	6.06	96.3	2
124.05	127.10	3.05	3.00	98.4	2.86	95.3	3
127.10	130.15	3.05	2.91	95.4	2.46	84.5	3
130.15	136.25	6.10	5.96	97.7	3.92	65.8	3
136.25	142.34	6.09	5.92	97.2	3.17	53.5	3
142.34	148.44	6.10	6.10	100.0	4.21	69.0	4
148.44	154.53	6.09	5.95	97.7	3.40	57.1	4
154.53	160.63	6.10	6.05	99.2	4.64	76.7	4
160.63	166.73	6.10	5.79	94.9	3.15	54.4	4
166.73	169.77	3.04	3.00	98.7	1.34	44.7	4
169.77	172.83	3.06	3.01	98.4	2.11	70.1	4
172.83	178.92	6.09	5.72	93.9	3.84	67.1	4
178.92	185.01	6.09	6.22	102.1	4.72	75.9	4
185.01	191.11	6.10	5.85	95.9	3.29	56.2	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
191.11	194.16	3.05	3.00	98.4	1.60	53.3	4
194.16	197.21	3.05	3.05	100.0	1.75	57.4	4
197.21	202.08	4.87	1.99	40.9	1.14	57.3	4
202.08	208.79	6.71	6.35	94.6	4.62	72.8	4
208.79	215.19	6.40	6.15	96.1	5.50	89.4	4
215.19	221.59	6.40	6.10	95.3	5.23	85.7	4
221.59	227.69	6.10	5.84	95.7	4.99	85.4	4
227.69	233.78	6.09	5.81	95.4	4.05	69.7	4
233.78	239.88	6.10	5.83	95.6	2.38	40.8	4
239.88	245.97	6.09	5.87	96.4	4.75	80.9	4
245.97	249.33	3.36	3.01	89.6	1.78	59.1	4
249.33	255.12	5.79	5.62	97.1	3.98	70.8	4
255.12	261.21	6.09	5.84	95.9	3.61	61.8	4
261.21	267.31	6.10	5.70	93.4	4.80	84.2	4
267.31	273.41	6.10	6.06	99.3	4.25	70.1	4
273.41	279.50	6.09	5.94	97.5	3.98	67.0	4
279.50	285.60	6.10	5.80	95.1	3.81	65.7	4
285.60	291.69	6.09	5.67	93.1	3.18	56.1	4
291.69	297.79	6.10	5.97	97.9	3.21	53.8	4
297.79	302.06	4.27	3.98	93.2	1.18	29.6	4
302.06	305.41	3.35	3.00	89.6	1.81	60.3	4
305.41	309.98	4.57	4.43	96.9	2.98	67.3	4
309.98	316.08	6.10	5.70	93.4	2.76	48.4	4
316.08	319.13	3.05	2.99	98.0	1.75	58.5	4
319.13	325.22	6.09	5.81	95.4	4.22	72.6	4
325.22	331.32	6.10	5.75	94.3	2.54	44.2	4
331.32	337.41	6.09	5.73	94.1	1.94	33.9	4
337.41	340.46	3.05	2.10	68.9	0.60	28.6	4
340.46	343.51	3.05	2.70	88.5	1.75	64.8	4
343.51	345.34	1.83	1.60	87.4	0.30	18.8	4
345.34	349.61	4.27	4.37	102.3	2.61	59.7	4
349.61	355.70	6.09	5.80	95.2	2.89	49.8	4
355.70	358.75	3.05	3.03	99.3	2.02	66.7	4
358.75	364.85	6.10	5.48	89.8	3.92	71.5	4
364.85	370.94	6.09	5.93	97.4	3.17	53.5	4
370.94	377.04	6.10	5.72	93.8	4.26	74.5	4
377.04	383.13	6.09	5.80	95.2	4.12	71.0	4
383.13	386.18	3.05	1.99	65.2	0.87	43.7	4
386.18	392.28	6.10	5.92	97.0	3.95	66.7	3
392.28	396.24	3.96	3.79	95.7	1.20	31.7	3
396.24	402.64	6.40	6.01	93.9	3.98	66.2	4
402.64	409.35	6.71	6.30	93.9	3.88	61.6	4
409.35	416.05	6.70	6.20	92.5	4.54	73.2	4
416.05	416.66	0.61	0.77	126.2	0.36	46.8	4
416.66	422.76	6.10	5.74	94.1	3.79	66.0	4
422.76	428.85	6.09	5.92	97.2	3.00	50.7	4
428.85	434.95	6.10	5.70	93.4	3.20	56.1	4
434.95	441.05	6.10	5.87	96.2	4.53	77.2	4
441.05	447.14	6.09	5.82	95.6	5.14	88.3	4
447.14	453.24	6.10	6.01	98.5	5.10	84.9	4
453.24	459.33	6.09	5.94	97.5	3.12	52.5	4
459.33	465.43	6.10	5.78	94.8	3.55	61.4	3
465.43	471.53	6.10	5.96	97.7	4.23	71.0	3
471.53	477.62	6.09	5.96	97.9	3.87	64.9	3
477.62	483.72	6.10	5.90	96.7	5.00	84.7	4
483.72	489.81	6.09	5.70	93.6	3.49	61.2	4

Date: Aug 29/02

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole Hole KN-02-30

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.66	3.66	0.45	12.3	0.00	0.0	3
3.66	5.18	1.52	1.34	88.2	0.43	32.1	3
5.18	6.71	1.53	1.41	92.2	0.74	52.5	3
6.71	8.23	1.52	1.24	81.6	0.77	62.1	3
8.23	9.75	1.52	1.48	97.4	0.80	54.1	4
9.75	11.28	1.53	1.40	91.5	0.97	69.3	4
11.28	12.80	1.52	1.36	89.5	0.51	37.5	4
12.80	14.33	1.53	1.45	94.8	0.65	44.8	4
14.33	15.85	1.52	1.29	84.9	0.33	25.6	4
15.85	17.37	1.52	1.50	98.7	1.19	79.3	4
17.37	18.90	1.53	1.60	104.6	0.71	44.4	4
18.90	20.42	1.52	1.51	99.3	0.31	20.5	4
20.42	21.95	1.53	1.33	86.9	0.30	22.6	4
21.95	23.47	1.52	1.47	96.7	0.45	30.6	4
23.47	24.99	1.52	1.42	93.4	0.71	50.0	4
24.99	26.52	1.53	1.31	85.6	1.04	79.4	4
26.52	28.04	1.52	1.40	92.1	1.00	71.4	4
28.04	29.57	1.53	1.41	92.2	0.41	29.1	4
29.57	32.61	3.04	2.66	87.5	1.22	45.9	4
32.61	34.14	1.53	1.29	84.3	0.85	65.9	4
34.14	35.66	1.52	1.42	93.4	0.57	40.1	4
35.66	37.19	1.53	1.44	94.1	0.42	29.2	4
37.19	38.71	1.52	1.39	91.4	0.90	64.7	4
38.71	39.62	0.91	0.98	107.7	0.10	10.2	4
39.62	41.76	2.14	1.93	90.2	0.41	21.2	4
41.76	44.81	3.05	2.95	96.7	0.56	19.0	4
44.81	47.85	3.04	2.98	98.0	0.77	25.8	4
47.85	50.90	3.05	2.95	96.7	1.57	53.2	4
50.90	53.95	3.05	2.61	85.6	0.66	25.3	4
53.95	57.00	3.05	2.80	91.8	0.76	27.1	4
57.00	60.05	3.05	2.73	89.5	0.92	33.7	4
60.05	63.09	3.04	2.85	93.7	1.46	51.2	4
63.09	66.14	3.05	2.78	91.1	0.88	31.7	4
66.14	69.19	3.05	2.99	98.0	1.00	33.4	4
69.19	72.24	3.05	2.82	92.5	0.81	28.7	3
72.24	75.29	3.05	2.94	96.4	1.97	67.0	3
75.29	78.33	3.04	3.00	98.7	1.71	57.0	4
78.33	81.38	3.05	3.01	98.7	2.52	83.7	5
81.38	84.43	3.05	2.71	88.9	1.25	46.1	5
84.43	87.48	3.05	3.10	101.6	1.52	49.0	4
87.48	90.53	3.05	3.15	103.3	0.80	25.4	4
90.53	93.57	3.04	3.11	102.3	0.57	18.3	4
93.57	96.62	3.05	2.92	95.7	0.91	31.2	4
96.62	99.67	3.05	3.20	104.9	0.92	28.8	4
99.67	102.72	3.05	2.94	96.4	1.52	51.7	4
102.72	105.77	3.05	3.00	98.4	1.31	43.7	4
105.77	108.81	3.04	3.01	99.0	1.08	35.9	4
108.81	111.86	3.05	3.09	101.3	1.38	44.7	4
111.86	114.91	3.05	2.99	98.0	1.71	57.2	5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
114.91	117.96	3.05	2.95	96.7	1.69	57.3	4
117.96	121.01	3.05	3.00	98.4	0.79	26.3	4
121.01	124.05	3.04	3.03	99.7	1.30	42.9	4
124.05	127.10	3.05	2.99	98.0	1.73	57.9	4
127.10	130.15	3.05	3.02	99.0	2.05	67.9	4
130.15	133.20	3.05	2.98	97.7	1.50	50.3	4
133.20	136.25	3.05	3.02	99.0	2.15	71.2	4
136.25	139.29	3.04	2.87	94.4	2.01	70.0	4
139.29	142.34	3.05	2.91	95.4	1.60	55.0	4
142.34	145.39	3.05	3.02	99.0	2.07	68.5	4
145.39	148.44	3.05	2.95	96.7	2.06	69.8	4
148.44	151.49	3.05	2.97	97.4	1.23	41.4	4
151.49	154.53	3.04	2.92	96.1	2.42	82.9	4
154.53	157.58	3.05	2.97	97.4	2.35	79.1	4
157.58	160.63	3.05	3.04	99.7	1.39	45.7	4
160.63	163.68	3.05	2.75	90.2	2.00	72.7	4
163.68	166.73	3.05	2.94	96.4	2.01	68.4	4
166.73	169.77	3.04	2.97	97.7	2.36	79.5	4
169.77	172.82	3.05	2.96	97.0	2.20	74.3	4
172.82	175.87	3.05	2.93	96.1	2.08	71.0	4
175.87	181.97	6.10	6.36	104.3	4.53	71.2	4
181.97	188.06	6.09	5.73	94.1	4.20	73.3	4
188.06	194.16	6.10	5.74	94.1	3.28	57.1	4
194.16	197.21	3.05	3.10	101.6	1.49	48.1	4
197.21	203.30	6.09	5.67	93.1	2.02	35.6	4
203.30	209.40	6.10	6.05	99.2	4.08	67.4	4
209.40	215.49	6.09	5.90	96.9	3.21	54.4	4
215.49	221.59	6.10	6.02	98.7	3.34	55.5	4
221.59	227.69	6.10	5.78	94.8	4.74	82.0	5
227.69	233.78	6.09	5.49	90.1	2.74	49.9	5
233.78	239.88	6.10	6.35	104.1	4.63	72.9	4
239.88	245.97	6.09	6.12	100.5	3.39	55.4	4
245.97	252.07	6.10	5.87	96.2	4.01	68.3	4
252.07	258.17	6.10	5.92	97.0	3.08	52.0	4
258.17	264.26	6.09	6.02	98.9	4.42	73.4	4
264.26	270.36	6.10	6.07	99.5	4.22	69.5	4
270.36	276.45	6.09	6.00	98.5	5.75	95.8	4
276.45	282.55	6.10	6.02	98.7	4.90	81.4	4
282.55	288.65	6.10	5.99	98.2	5.21	87.0	4
288.65	294.78	6.13	5.98	97.6	5.40	90.3	4
294.78	300.84	6.06	5.92	97.7	5.44	91.9	4
300.84	306.93	6.09	6.05	99.3	5.48	90.6	5
306.93	313.03	6.10	5.76	94.4	4.28	74.3	4
313.03	319.13	6.10	6.04	99.0	4.25	70.4	4
319.13	325.22	6.09	5.96	97.9	5.37	90.1	4
325.22	331.32	6.10	6.04	99.0	5.68	94.0	4
331.32	337.41	6.09	5.95	97.7	5.09	85.5	4
337.41	343.51	6.10	6.04	99.0	3.83	63.4	4
343.51	349.61	6.10	5.57	91.3	2.92	52.4	4
349.61	355.70	6.09	6.00	98.5	4.94	82.3	4
355.70	361.80	6.10	5.91	96.9	4.46	75.5	5
361.80	364.85	3.05	2.86	93.8	2.34	81.8	4
364.85	370.91	6.06	5.62	92.7	3.02	53.7	4
370.91	377.04	6.13	6.14	100.2	4.23	68.9	5
377.04	383.13	6.09	5.93	97.4	3.97	66.9	5
383.13	389.23	6.10	5.94	97.4	3.45	58.1	5

Date: Aug 29/02

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole Hole KN-02-31

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
7.62	19.81	12.19	0.29	2.4	0.00	0.0	3
19.81	21.34	1.53	0.00	0.0	0.00	0.0	3
21.34	22.86	1.52	1.26	82.9	0.00	0.0	3
22.86	24.38	1.52	0.77	50.7	0.00	0.0	3
24.38	25.91	1.53	0.72	47.1	0.00	0.0	3
25.91	27.43	1.52	0.91	59.9	0.00	0.0	3
27.43	28.96	1.53	0.33	21.6	0.00	0.0	3
28.96	30.48	1.52	0.81	53.3	0.00	0.0	3
30.48	32.00	1.52	0.21	13.8	0.00	0.0	3
32.00	33.53	1.53	0.17	11.1	0.00	0.0	3
33.53	35.05	1.52	0.11	7.2	0.00	0.0	3
35.05	36.58	1.53	0.21	13.7	0.00	0.0	3
36.58	38.10	1.52	0.22	14.5	0.00	0.0	3
38.10	39.62	1.52	0.40	26.3	0.00	0.0	3
39.62	41.15	1.53	0.20	13.1	0.00	0.0	3
41.15	42.67	1.52	0.18	11.8	0.00	0.0	3
42.67	44.20	1.53	0.46	30.1	0.00	0.0	3
44.20	45.72	1.52	1.14	75.0	0.10	8.8	3
45.72	47.24	1.52	1.38	90.8	0.32	23.2	3
47.24	48.77	1.53	1.16	75.8	0.33	28.4	3
48.77	50.29	1.52	0.55	36.2	0.10	18.2	3
50.29	51.82	1.53	0.85	55.6	0.17	20.0	3
51.82	53.34	1.52	1.40	92.1	0.38	27.1	3
53.34	54.86	1.52	1.51	99.3	0.33	21.9	3
54.86	56.39	1.53	1.33	86.9	0.39	29.3	3
56.39	57.91	1.52	1.38	90.8	1.03	74.6	3
57.91	59.44	1.53	1.34	87.6	0.32	23.9	3
59.44	60.96	1.52	1.30	85.5	0.75	57.7	3
60.96	62.48	1.52	1.36	89.5	0.67	49.3	3
62.48	64.01	1.53	1.43	93.5	0.87	60.8	3
64.01	65.53	1.52	1.44	94.7	0.51	35.4	3
65.53	67.06	1.53	1.30	85.0	0.40	30.8	3
67.06	68.58	1.52	1.42	93.4	0.20	14.1	3
68.58	70.10	1.52	1.32	86.8	0.47	35.6	3
70.10	71.63	1.53	1.51	98.7	0.18	11.9	3
71.63	73.15	1.52	1.36	89.5	0.68	50.0	3
73.15	74.68	1.53	1.47	96.1	0.82	55.8	3
74.68	76.20	1.52	1.36	89.5	0.79	58.1	3
76.20	77.72	1.52	1.55	102.0	0.71	45.8	3
77.72	79.25	1.53	1.40	91.5	1.22	87.1	3
79.25	80.77	1.52	1.41	92.8	0.49	34.8	3
80.77	82.30	1.53	1.40	91.5	0.93	66.4	3
82.30	83.82	1.52	1.50	98.7	0.52	34.7	2
83.82	85.34	1.52	1.28	84.2	0.32	25.0	2
85.34	86.87	1.53	1.40	91.5	0.42	30.0	3
86.87	88.39	1.52	1.26	82.9	0.54	42.9	3
88.39	89.92	1.53	0.90	58.8	0.00	0.0	2
89.92	91.44	1.52	1.29	84.9	0.36	27.9	3
91.44	92.96	1.52	1.32	86.8	0.53	40.2	3

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
92.96	94.49	1.53	1.45	94.8	0.34	23.4	3
94.49	96.01	1.52	1.35	88.8	0.16	11.9	3
96.01	97.54	1.53	1.41	92.2	0.66	46.8	3
97.54	99.06	1.52	1.27	83.6	0.44	34.6	3
99.06	100.58	1.52	1.35	88.8	0.67	49.6	3
100.58	102.11	1.53	1.38	90.2	0.93	67.4	3
102.11	103.63	1.52	1.41	92.8	1.33	94.3	3
103.63	104.85	1.22	1.40	114.8	0.55	39.3	3
104.85	106.68	1.83	1.22	66.7	0.74	60.7	2
106.68	108.20	1.52	1.35	88.8	0.54	40.0	2
108.20	109.73	1.53	1.40	91.5	0.30	21.4	2
109.73	111.25	1.52	1.15	75.7	0.00	0.0	3
111.25	112.78	1.53	1.36	88.9	0.48	35.3	4
112.78	114.30	1.52	1.05	69.1	0.00	0.0	3
114.30	115.82	1.52	1.25	82.2	0.00	0.0	2
115.82	117.35	1.53	1.30	85.0	0.00	0.0	3
117.35	120.40	3.05	1.30	42.6	0.00	0.0	3
120.40	121.92	1.52	0.92	60.5	0.10	10.9	3
121.92	123.44	1.52	1.26	82.9	0.34	27.0	3
123.44	124.97	1.53	1.09	71.2	0.23	21.1	3
124.97	126.49	1.52	1.38	90.8	0.58	42.0	3
126.49	128.02	1.53	1.17	76.5	0.15	12.8	4
128.02	129.54	1.52	1.44	94.7	0.24	16.7	4
129.54	131.06	1.52	1.08	71.1	0.53	49.1	3
131.06	132.59	1.53	1.36	88.9	0.55	40.4	3
132.59	134.11	1.52	1.45	95.4	0.59	40.7	3
134.11	135.64	1.53	1.34	87.6	0.56	41.8	4
135.64	137.16	1.52	1.18	77.6	0.12	10.2	4
137.16	138.68	1.52	1.44	94.7	1.09	75.7	3
138.68	140.21	1.53	1.24	81.0	0.43	34.7	3
140.21	141.73	1.52	1.04	68.4	0.10	9.6	3
141.73	143.26	1.53	1.38	90.2	0.61	44.2	3
143.26	144.78	1.52	1.10	72.4	0.18	16.4	3
144.78	146.30	1.52	1.50	98.7	0.66	44.0	3
146.30	147.83	1.53	1.20	78.4	0.28	23.3	3
147.83	150.88	3.05	2.52	82.6	1.21	48.0	4
150.88	152.40	1.52	1.16	76.3	0.00	0.0	5
152.40	153.92	1.52	1.35	88.8	0.15	11.1	4
153.92	155.45	1.53	1.01	66.0	0.19	18.8	4
155.45	157.58	2.13	1.56	73.2	0.46	29.5	4
157.58	160.63	3.05	2.81	92.1	0.75	26.7	4
160.63	163.68	3.05	2.48	81.3	0.61	24.6	4
163.68	166.73	3.05	2.40	78.7	0.84	35.0	4
166.73	169.77	3.04	2.51	82.6	0.38	15.1	4
169.77	172.82	3.05	2.73	89.5	1.96	71.8	4
172.82	175.87	3.05	2.77	90.8	1.33	48.0	4
175.87	178.92	3.05	2.39	78.4	1.00	41.8	4
178.92	181.97	3.05	2.76	90.5	1.47	53.3	4
181.97	185.01	3.04	2.64	86.8	1.64	62.1	4
185.01	188.06	3.05	2.81	92.1	1.75	62.3	4
188.06	191.11	3.05	3.02	99.0	2.16	71.5	4
191.11	194.16	3.05	2.90	95.1	1.49	51.4	4
194.16	197.21	3.05	2.98	97.7	2.57	86.2	4
197.21	200.25	3.04	2.97	97.7	2.28	76.8	4
200.25	203.30	3.05	2.83	92.8	1.31	46.3	4
203.30	206.35	3.05	2.74	89.8	1.32	48.2	4

Date: September 1, 2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-32

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
7.62	9.14	1.52	0.26	17.1	0.00	0.0	0
9.14	10.67	1.53	0.73	47.7	0.00	0.0	0
10.67	12.19	1.52	0.89	58.6	0.12	13.5	2
12.19	13.72	1.53	0.98	64.1	0.00	0.0	0
13.72	15.24	1.52	1.36	89.5	0.11	8.1	2
15.24	16.76	1.52	1.16	76.3	0.23	19.8	2
16.76	18.29	1.53	1.49	97.4	0.11	7.4	2
18.29	19.81	1.52	1.57	103.3	0.20	12.7	2
19.81	21.34	1.53	1.36	88.9	0.35	25.7	3
21.34	22.86	1.52	1.44	94.7	0.75	52.1	3
22.86	25.91	3.05	1.30	42.6	0.73	56.2	3
25.91	27.43	1.52	1.21	79.6	0.21	17.4	3
27.43	28.96	1.53	1.25	81.7	0.11	8.8	2
28.96	30.48	1.52	1.44	94.7	0.35	24.3	2
30.48	32.00	1.52	1.11	73.0	0.13	11.7	2.5
32.00	33.53	1.53	1.33	86.9	0.19	14.3	3
33.53	35.05	1.52	1.26	82.9	0.59	46.8	3
35.05	36.58	1.53	1.43	93.5	0.63	44.1	3
36.58	38.10	1.52	1.47	96.7	0.77	52.4	3
38.10	39.62	1.52	1.56	102.6	0.46	29.5	3
39.62	41.15	1.53	1.50	98.0	0.77	51.3	3
41.15	42.67	1.52	1.36	89.5	0.57	41.9	3
42.67	44.20	1.53	1.38	90.2	0.46	33.3	3
44.20	45.72	1.52	1.30	85.5	0.47	36.2	3
45.72	47.24	1.52	1.45	95.4	0.78	53.8	3
47.24	48.77	1.53	1.13	73.9	0.19	16.8	3
48.77	50.29	1.52	0.90	59.2	0.00	0.0	3
50.29	51.82	1.53	1.22	79.7	0.55	45.1	3
51.82	53.34	1.52	1.29	84.9	0.00	0.0	3.5
53.34	54.86	1.52	1.31	86.2	0.35	26.7	3.5
54.86	56.39	1.53	1.44	94.1	0.22	15.3	3.5
56.39	57.91	1.52	1.34	88.2	0.48	35.8	3.5
57.91	59.44	1.53	1.44	94.1	0.50	34.7	3.5
59.44	60.95	1.51	1.49	98.7	0.34	22.8	3
60.95	62.48	1.53	1.26	82.4	0.28	22.2	3.5
62.48	64.01	1.53	1.42	92.8	0.52	36.6	
64.01	65.53	1.52	1.49	98.0	0.58	38.9	
65.53	66.45	0.92	0.74	80.4	0.70	94.6	
66.45	67.06	0.61	0.46	75.4	0.00	0.0	
67.06	70.10	3.04	3.05	100.3	2.15	70.5	
70.10	73.15	3.05	2.93	96.1	0.97	33.1	
73.15	76.20	3.05	2.82	92.5	1.23	43.6	
76.20	79.25	3.05	3.03	99.3	1.81	59.7	
79.25	82.30	3.05	2.98	97.7	2.12	71.1	
82.30	85.34	3.04	3.04	100.0	1.78	58.6	
85.34	88.39	3.05	2.93	96.1	1.71	58.4	
88.39	91.44	3.05	2.95	96.7	1.45	49.2	
91.44	94.49	3.05	3.00	98.4	1.88	62.7	5
94.49	97.54	3.05	3.01	98.7	0.98	32.6	5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
97.54	100.58	3.04	2.75	90.5	2.05	74.5	5
100.58	103.63	3.05	2.92	95.7	2.31	79.1	5
103.63	106.68	3.05	2.92	95.7	0.33	11.3	5
106.68	109.73	3.05	3.02	99.0	2.60	86.1	5
109.73	112.78	3.05	3.03	99.3	1.87	61.7	5
112.78	115.82	3.04	2.90	95.4	1.65	56.9	5
115.82	118.87	3.05	2.91	95.4	1.00	34.4	5
118.87	121.92	3.05	3.00	98.4	2.38	79.3	5
121.92	124.97	3.05	3.04	99.7	1.90	62.5	5
124.97	128.02	3.05	3.08	101.0	2.64	85.7	5
128.02	131.06	3.04	3.04	100.0	2.28	75.0	5
131.06	134.11	3.05	2.92	95.7	1.38	47.3	4
134.11	137.16	3.05	2.99	98.0	2.24	74.9	4
137.16	140.21	3.05	2.98	97.7	1.60	53.7	4
140.21	143.26	3.05	2.93	96.1	0.85	29.0	4
143.26	146.30	3.04	2.67	87.8	0.90	33.7	5
146.30	149.35	3.05	2.84	93.1	1.30	45.8	5
149.35	152.40	3.05	3.02	99.0	2.10	69.5	5
152.40	155.45	3.05	3.03	99.3	2.05	67.7	5
155.45	158.50	3.05	3.05	100.0	1.00	32.8	5
158.50	161.54	3.04	2.73	89.8	0.69	25.3	5
161.54	164.59	3.05	3.05	100.0	1.38	45.2	5
164.59	167.64	3.05	2.89	94.8	1.47	50.9	
167.64	170.69	3.05	3.04	99.7	1.26	41.4	
170.69	173.74	3.05	3.03	99.3	0.98	32.3	
173.74	176.78	3.04	2.77	91.1	1.50	54.2	
176.78	179.83	3.05	3.03	99.3	1.55	51.2	
179.83	182.88	3.05	2.99	98.0	1.83	61.2	
182.88	185.93	3.05	3.04	99.7	1.55	51.0	
185.93	188.98	3.05	2.98	97.7	1.45	48.7	
188.98	192.02	3.04	3.00	98.7	1.35	45.0	
192.02	195.07	3.05	3.01	98.7	1.33	44.2	
195.07	198.12	3.05	3.04	99.7	0.89	29.3	
198.12	201.17	3.05	2.99	98.0	1.79	59.9	
201.17	204.22	3.05	3.00	98.4	1.09	36.3	
204.22	207.26	3.04	3.00	98.7	1.32	44.0	
207.26	210.13	2.87	2.90	101.0	0.88	30.3	
210.13	213.36	3.23	2.76	85.4	1.08	39.1	
213.36	216.41	3.05	3.05	100.0	0.46	15.1	
216.41	219.46	3.05	3.00	98.4	1.24	41.3	
219.46	222.50	3.04	3.02	99.3	2.00	66.2	
222.50	225.55	3.05	3.06	100.3	1.94	63.4	
225.55	228.60	3.05	2.80	91.8	2.20	78.6	
228.60	231.65	3.05	2.96	97.0	1.47	49.7	
231.65	234.70	3.05	2.98	97.7	1.23	41.3	
234.70	237.75	3.05	3.00	98.4	1.20	40.0	
237.75	240.79	3.04	2.86	94.1	1.36	47.6	
240.79	243.84	3.05	2.88	94.4	0.76	26.4	
243.84	246.89	3.05	2.91	95.4	1.15	39.5	
246.89	249.14	2.25	2.88	128.0	1.44	50.0	
249.14	252.98	3.84	3.01	78.4	1.62	53.8	
252.98	256.03	3.05	2.89	94.8	0.80	27.7	
256.03	259.08	3.05	2.85	93.4	0.95	33.3	
259.08	262.13	3.05	2.80	91.8	0.98	35.0	
262.13	265.18	3.05	2.83	92.8	1.22	43.1	
265.18	268.22	3.04	2.78	91.4	0.94	33.8	

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
268.22	271.27	3.05	2.67	87.5	1.86	69.7	5
271.27	274.32	3.05	2.98	97.7	2.03	68.1	4.5
274.32	277.37	3.05	3.03	99.3	2.36	77.9	4
277.37	280.42	3.05	3.00	98.4	2.40	80.0	4.5
280.42	283.46	3.04	2.87	94.4	2.00	69.7	4
283.46	286.51	3.05	2.95	96.7	1.79	60.7	3.5
286.51	289.56	3.05	3.02	99.0	2.45	81.1	3.5
289.56	292.61	3.05	3.04	91.8	2.12	69.7	4
292.61	295.66	3.05	2.26	92.8	0.87	38.5	4.5
295.66	298.70	3.04	0.30	91.4	0.00	0.0	4.5
298.70	301.75	3.05	2.82	87.5	2.32	82.3	4.5
301.75	304.80	3.05	2.81	97.7	2.46	87.5	4.5
304.80	307.85	3.05	3.00	99.3	2.33	77.7	4
307.85	310.90	3.05	2.93	98.4	0.83	28.3	4.5
310.90	313.94	3.04	2.82	94.4	0.90	31.9	4.5
313.94	316.99	3.05	3.00	96.7	1.52	50.7	4.5
316.99	320.04	3.05	2.87	99.0	1.54	53.7	4
320.04	323.09	3.05	2.85	99.7	1.57	55.1	3.5
323.09	326.14	3.05	3.05	74.1	2.32	76.1	5
326.14	329.18	3.04	3.09	9.9	2.71	87.7	5
329.18	332.23	3.05	3.01	92.5	2.58	85.7	5
332.23	335.28	3.05	3.07	92.1	2.30	74.9	5
335.28	338.33	3.05	3.10	98.4	2.08	67.1	4.5
338.33	341.38	3.05	3.05	96.1	2.26	74.1	4.5
341.38	344.42	3.04	3.02	92.8	2.37	78.5	4
344.42	347.47	3.05	3.00	98.4	1.70	56.7	4
347.47	350.52	3.05	3.05	94.1	2.30	75.4	4
350.52	353.57	3.05	3.08	93.4	2.69	87.3	3.5
353.57	356.62	3.05	3.05	100.0	2.52	82.6	3.5
356.62	359.66	3.04	3.07	101.6	2.23	72.6	4.5
359.66	362.71	3.05	3.05	98.7	2.40	78.7	4.5
362.71	365.76	3.05	3.05	100.7	2.54	83.3	4.5
365.76	368.81	3.05	3.04	101.6	2.36	77.6	4.5
368.81	371.86	3.05	3.01	100.0	2.55	84.7	4.5
371.86	374.90	3.04	3.08	99.3	2.43	78.9	4.5
374.90	377.95	3.05	3.07	98.4	2.66	86.6	4
377.95	381.00	3.05	3.11	100.0	2.43	78.1	4
381.00	384.05	3.05	3.06	101.0	2.04	66.7	4
384.05	387.10	3.05	2.98	100.0	2.25	75.5	3.5
387.10	390.14	3.04	2.94	101.0	2.31	78.6	3.5
390.14	393.19	3.05	3.01	100.0	1.23	40.9	4
393.19	396.24	3.05	2.99	100.0	0.90	30.1	4
396.24	399.29	3.05	2.89	99.7	1.49	51.6	4
399.29	402.34	3.05	3.07	98.7	2.29	74.6	4.5
402.34	405.38	3.04	3.04	101.3	1.56	51.3	4
405.38	408.43	3.05	3.08	100.7	1.90	61.7	4.5
408.43	411.48	3.05	3.01	102.0	2.04	67.8	5
411.48	414.53	3.05	3.00	100.3	2.12	70.7	4.5
414.53	417.58	3.05	3.01	97.7	2.20	73.1	4.5
417.58	420.62	3.04	3.04	96.7	2.25	74.0	4.5
420.62	423.67	3.05	3.00	98.7	2.92	97.3	4.5
423.67	426.72	3.05	3.08	98.0	2.60	84.4	4.5
426.72	429.77	3.05	3.09	94.8	1.47	47.6	4.5
429.77	432.82	3.05	2.96	100.7	2.65	89.5	4.5
432.82	435.86	3.04	2.98	100.0	1.44	48.3	4.5
435.86	438.91	3.05	3.05	101.0	1.66	54.4	4.5

Date: Aug 31, 2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole Hole KN-02-33

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
6.10	6.71	0.61	0.29	47.5	0.00	0.0	2
6.71	8.23	1.52	0.79	52.0	0.00	0.0	2
8.23	9.75	1.52	0.68	44.7	0.00	0.0	2
9.75	11.28	1.53	1.14	74.5	0.14	12.3	2
11.28	12.80	1.52	1.12	73.7	0.19	17.0	2
12.80	14.33	1.53	0.87	56.9	0.11	12.6	2
14.33	15.85	1.52	1.40	92.1	0.00	0.0	1
15.85	17.37	1.52	0.00	0.0	0.00	0.0	1
17.37	18.90	1.53	0.00	0.0	0.00	0.0	1
18.90	20.42	1.52	0.50	32.9	0.00	0.0	2
20.42	21.95	1.53	0.25	16.3	0.00	0.0	1
21.95	23.47	1.52	0.10	6.6	0.00	0.0	1
23.47	24.99	1.52	0.02	1.3	0.00	0.0	1
24.99	28.04	3.05	0.15	4.9	0.00	0.0	1
28.04	29.57	1.53	0.00	0.0	0.00	0.0	1
29.57	31.09	1.52	0.00	0.0	0.00	0.0	1
31.09	34.14	3.05	0.00	0.0	0.00	0.0	1
34.14	35.66	1.52	0.00	0.0	0.00	0.0	1
35.66	37.19	1.53	0.00	0.0	0.00	0.0	1
37.19	38.71	1.52	0.00	0.0	0.00	0.0	1
38.71	40.23	1.52	0.00	0.0	0.00	0.0	1
40.23	43.28	3.05	0.90	29.5	0.00	0.0	2
43.28	44.81	1.53	0.00	0.0	0.00	0.0	1
44.81	46.33	1.52	0.00	0.0	0.00	0.0	1
46.33	49.38	3.05	0.00	0.0	0.00	0.0	1
49.38	52.43	3.05	0.00	0.0	0.00	0.0	1
52.43	55.47	3.04	0.00	0.0	0.00	0.0	1
55.47	58.52	3.05	0.80	26.2	0.46	57.5	3
58.52	60.05	1.53	1.38	90.2	0.52	37.7	3
60.05	61.57	1.52	1.52	100.0	1.44	94.7	4
61.57	63.09	1.52	1.49	98.0	1.12	75.2	4
63.09	64.62	1.53	1.36	88.9	0.70	51.5	4
64.62	66.14	1.52	1.50	98.7	1.10	73.3	4
66.14	67.67	1.53	1.51	98.7	1.18	78.1	4
67.67	69.19	1.52	1.38	90.8	0.57	41.3	4
69.19	70.71	1.52	1.37	90.1	0.54	39.4	4
70.71	72.24	1.53	1.50	98.0	0.73	48.7	4
72.24	73.15	0.91	0.71	78.0	0.24	33.8	4
73.15	74.98	1.83	1.69	92.3	0.25	14.8	4
74.98	77.42	2.44	2.20	90.2	0.86	39.1	4
77.42	81.38	3.96	3.53	89.1	1.86	52.7	4
81.38	84.43	3.05	2.94	96.4	1.73	58.8	4
84.43	89.31	4.88	4.36	89.3	2.54	58.3	4
89.31	93.57	4.26	4.15	97.4	3.04	73.3	4
93.57	99.67	6.10	6.10	100.0	3.10	50.8	4
99.67	105.77	6.10	5.90	96.7	4.88	82.7	4
105.77	111.86	6.09	6.00	98.5	5.18	86.3	4
111.86	117.96	6.10	6.00	98.4	4.84	80.7	4
117.96	124.05	6.09	5.57	91.5	4.41	79.2	4

Interval (m)		Recovery		RQD		HARDNESS	
124.05	127.71	3.66	3.62	98.9	1.82	50.3	4
127.71	133.20	5.49	5.25	95.6	4.59	87.4	4
133.20	139.29	6.09	3.08	50.6	5.39	175.0	4
139.29	145.39	6.10	5.87	96.2	5.56	94.7	4
145.39	151.49	6.10	5.68	93.1	4.06	71.5	4
151.49	157.58	6.09	6.08	99.8	4.03	66.3	4
157.58	163.68	6.10	5.84	95.7	3.96	67.8	4
163.68	166.73	3.05	2.94	96.4	1.91	65.0	4
166.73	172.82	6.09	5.92	97.2	3.95	66.7	4
172.82	175.87	3.05	2.53	83.0	0.31	12.3	4
175.87	178.92	3.05	2.33	76.5	0.80	34.3	4
178.92	181.97	3.05	2.47	81.0	0.49	19.8	3
181.97	184.10	2.13	1.67	78.4	0.27	16.2	3
184.10	188.67	4.57	3.46	75.7	0.57	16.5	3
188.67	190.50	1.83	1.65	90.2	0.59	35.8	4
190.50	195.68	5.18	4.90	94.6	2.13	43.5	4
195.68	199.03	3.35	3.26	97.3	1.10	33.7	4
199.03	203.91	4.88	4.82	98.8	3.05	63.3	4
203.91	208.18	4.27	3.96	92.7	1.89	47.7	4
208.18	214.52	6.34	2.97	46.8	2.16	72.7	4
214.52	220.98	6.46	6.34	98.1	3.44	54.3	3
220.98	227.08	6.10	6.38	104.6	4.33	67.9	4
227.08	233.48	6.40	6.13	95.8	4.70	76.7	4
233.48	239.88	6.40	5.83	91.1	3.60	61.7	4
239.88	245.97	6.09	6.06	99.5	4.88	80.5	4
245.97	252.07	6.10	6.03	98.9	5.37	89.1	4
252.07	258.17	6.10	5.92	97.0	4.42	74.7	4
258.17	264.28	6.11	5.78	94.6	4.13	71.5	4
264.28	270.36	6.08	6.06	99.7	4.93	81.4	4
270.36	276.45	6.09	6.05	99.3	4.14	68.4	4
276.45	282.55	6.10	5.70	93.4	4.94	86.7	4
282.55	288.65	6.10	5.72	93.8	4.05	70.8	4
288.65	294.74	6.09	5.93	97.4	4.48	75.5	4
294.74	297.79	3.05	2.93	96.1	1.23	42.0	4
297.79	303.89	6.10	5.66	92.8	3.46	61.1	4
303.89	309.98	6.09	5.80	95.2	4.05	69.8	4
309.98	313.33	3.35	3.35	100.0	2.41	71.9	4
313.33	319.13	5.80	5.34	92.1	3.76	70.4	4
319.13	325.22	6.09	6.04	99.2	4.08	67.5	4
325.22	331.32	6.10	5.96	97.7	4.30	72.1	4
331.32	335.89	4.57	3.88	84.9	2.33	60.1	4
335.89	341.99	6.10	5.89	96.6	2.80	47.5	4
341.99	348.39	6.40	6.06	94.7	4.64	76.6	4
348.39	354.79	6.40	6.12	95.6	4.45	72.7	4
354.79	360.88	6.09	5.99	98.4	3.20	53.4	4
360.88	367.28	6.40	6.20	96.9	2.39	38.5	4
367.28	370.94	3.66	3.61	98.6	3.01	83.4	4
370.94	377.04	6.10	5.91	96.9	4.30	72.8	4
377.04	383.13	6.09	6.92	113.6	4.68	67.6	4
383.13	390.14	7.01	7.02	100.1	5.44	77.5	4
390.14	395.33	5.19	6.10	117.5	4.65	76.2	4
395.33	397.46	2.13	2.10	98.6	1.75	83.3	4
397.46	400.81	3.35	3.32	99.1	0.92	27.7	4
400.81	404.47	3.66	4.10	112.0	1.03	25.1	4
404.47	410.57	6.10	5.92	97.0	3.96	66.9	4
410.57	416.05	5.48	5.24	95.6	2.61	49.8	4

Date: Aug 31, 2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-34

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
1.52	3.66	2.14	0.64	29.9	0.13	20.3	4
3.66	5.18	1.52	1.06	69.7	0.00	0.0	4
5.18	6.71	1.53	1.40	91.5	0.52	37.1	4
6.71	8.23	1.52	1.31	86.2	0.10	7.6	4
8.23	9.75	1.52	1.49	98.0	0.31	20.8	4
9.75	11.28	1.53	1.29	84.3	0.78	60.5	4
11.28	12.80	1.52	1.30	85.5	0.57	43.8	4
12.80	14.33	1.53	1.53	100.0	1.06	69.3	4
14.33	15.85	1.52	1.32	86.8	0.21	15.9	4
15.85	17.37	1.52	1.44	94.7	0.37	25.7	4
17.37	18.90	1.53	1.58	103.3	0.41	25.9	4
18.90	20.42	1.52	1.51	99.3	0.77	51.0	4
20.42	21.95	1.53	0.97	63.4	0.27	27.8	4
21.95	23.47	1.52	1.96	128.9	1.26	64.3	4
23.47	26.52	3.05	2.97	97.4	0.11	3.7	4
26.52	29.57	3.05	3.36	110.2	0.53	15.8	4
29.57	32.61	3.04	3.00	98.7	1.70	56.7	4
32.61	35.66	3.05	3.00	98.4	0.87	29.0	4
35.66	38.71	3.05	2.98	97.7	1.71	57.4	4
38.71	41.76	3.05	2.98	97.7	2.18	73.2	4
41.76	44.81	3.05	3.14	103.0	1.95	62.1	4
44.81	47.89	3.08	2.96	96.1	1.54	52.0	4
47.89	50.90	3.01	3.04	101.0	0.21	6.9	4
50.90	53.95	3.05	3.06	100.3	1.64	53.6	4
53.95	57.00	3.05	2.88	94.4	1.88	65.3	4
57.00	60.05	3.05	2.83	92.8	1.35	47.7	4
60.05	63.09	3.04	2.79	91.8	1.51	54.1	4
63.09	66.14	3.05	2.97	97.4	2.21	74.4	4
66.14	69.19	3.05	2.92	95.7	1.45	49.7	4
69.19	72.24	3.05	3.00	98.4	1.93	64.3	4
72.24	75.29	3.05	2.93	96.1	1.20	41.0	4
75.29	78.33	3.04	2.95	97.0	2.04	69.2	4
78.33	81.38	3.05	2.87	94.1	1.43	49.8	4
81.38	84.43	3.05	2.90	95.1	1.80	62.1	4
84.43	87.48	3.05	2.97	97.4	0.97	32.7	4
87.48	90.53	3.05	2.85	93.4	0.94	33.0	4
90.53	93.57	3.04	2.90	95.4	1.80	62.1	4
93.57	96.62	3.05	2.95	96.7	1.62	54.9	4
96.62	99.67	3.05	2.91	95.4	1.88	64.6	4
99.67	102.72	3.05	2.98	97.7	1.37	46.0	4
102.72	105.77	3.05	2.89	94.8	1.15	39.8	4
105.77	108.81	3.04	2.98	98.0	1.94	65.1	4
108.81	111.86	3.05	2.99	98.0	1.93	64.5	4
111.86	114.91	3.05	2.83	92.8	2.01	71.0	4
114.91	117.96	3.05	2.94	96.4	1.18	40.1	4
117.96	121.01	3.05	2.97	97.4	0.16	5.4	4
121.01	124.05	3.04	2.95	97.0	1.62	54.9	4
124.05	127.10	3.05	2.84	93.1	1.84	64.8	4
127.10	130.15	3.05	2.86	93.8	1.38	48.3	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
130.15	133.20	3.05	2.94	96.4	1.94	66.0	4
133.20	136.25	3.05	2.87	94.1	1.23	42.9	4
136.25	139.29	3.04	2.96	97.4	2.13	72.0	4
139.29	142.34	3.05	2.90	95.1	1.58	54.5	4
142.34	145.39	3.05	2.93	96.1	1.32	45.1	4
145.39	148.44	3.05	2.72	89.2	1.12	41.2	4
148.44	151.49	3.05	2.96	97.0	1.32	44.6	4
151.49	154.53	3.04	2.84	93.4	1.37	48.2	4
154.53	157.58	3.05	2.94	96.4	1.40	47.6	4
157.58	160.63	3.05	2.93	96.1	1.20	41.0	4
160.63	163.68	3.05	2.99	98.0	1.70	56.9	4
163.68	166.73	3.05	2.78	91.1	0.98	35.3	4
166.73	169.77	3.04	2.86	94.1	2.10	73.4	4
169.77	172.82	3.05	2.98	97.7	2.24	75.2	4
172.82	175.83	3.01	2.93	97.3	1.83	62.5	4
175.83	178.92	3.09	2.94	95.1	2.01	68.4	4
178.92	181.97	3.05	3.01	98.7	1.82	60.5	4
181.97	185.01	3.04	2.95	97.0	1.36	46.1	4
185.01	188.06	3.05	2.89	94.8	1.88	65.1	4
188.06	191.11	3.05	2.97	97.4	2.37	79.8	4
191.11	194.16	3.05	2.99	98.0	2.15	71.9	4
194.16	197.21	3.05	2.94	96.4	1.75	59.5	4
197.21	200.25	3.04	2.93	96.4	2.05	70.0	4
200.25	203.30	3.05	2.94	96.4	1.90	64.6	4
203.30	206.35	3.05	2.99	98.0	2.30	76.9	4
206.35	209.40	3.05	2.97	97.4	2.13	71.7	4
209.40	212.45	3.05	2.97	97.4	1.84	62.0	4
212.45	215.49	3.04	2.92	96.1	1.87	64.0	4
215.49	218.54	3.05	2.97	97.4	1.43	48.1	4
218.54	224.64	6.10	6.25	102.5	3.36	53.8	4
224.64	230.73	6.09	5.78	94.9	3.09	53.5	5
230.73	236.83	6.10	6.11	100.2	2.84	46.5	4
236.83	242.93	6.10	5.90	96.7	1.81	30.7	4
242.93	249.02	6.09	5.90	96.9	3.43	58.1	5
249.02	255.12	6.10	5.96	97.7	2.84	47.7	5
255.12	261.21	6.09	6.08	99.8	2.55	41.9	4.5
261.21	267.31	6.10	5.72	93.8	2.11	36.9	4
267.31	273.41	6.10	5.95	97.5	3.84	64.5	4
273.41	279.50	6.09	5.96	97.9	4.67	78.4	4
279.50	285.60	6.10	5.92	97.0	4.49	75.8	4
285.60	291.69	6.09	5.58	91.6	4.77	85.5	4.5
291.69	297.79	6.10	5.83	95.6	3.85	66.0	4
297.79	303.89	6.10	5.80	95.1	1.85	31.9	4.5
303.89	309.98	6.09	5.49	90.1	3.99	72.7	5
309.98	316.08	6.10	5.80	95.1	4.04	69.7	4.5
316.08	322.17	6.09	5.68	93.3	2.36	41.5	4.5
322.17	328.77	6.60	6.69	101.4	2.16	32.3	5
328.77	334.37	5.60	6.00	107.1	2.96	49.3	5
334.37	340.46	6.09	5.86	96.2	3.21	54.8	5
340.46	346.56	6.10	6.05	99.2	3.76	62.1	5
346.56	352.65	6.09	5.65	92.8	2.86	50.6	4.5
352.65	358.75	6.10	5.72	93.8	1.63	28.5	4.5
358.75	364.85	6.10	5.75	94.3	2.22	38.6	5
364.85	370.94	6.09	5.99	98.4	4.14	69.1	4.5
370.94	377.04	6.10	6.04	99.0	4.56	75.5	4.5
377.04	383.13	6.09	5.87	96.4	4.24	72.2	5

Date:Sept 1/02

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole Hole KN-02-35

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	4.57	4.57	0.05	1.1	0.00	0.0	1
4.57	9.14	4.57	0.00	0.0	0.00	0.0	1
9.14	12.19	3.05	0.00	0.0	0.00	0.0	1
12.19	15.24	3.05	0.05	1.6	0.00	0.0	1
15.24	18.29	3.05	0.03	1.0	0.00	0.0	1
18.29	21.34	3.05	0.05	1.6	0.00	0.0	1
21.34	24.38	3.04	0.05	1.6	0.00	0.0	1
24.38	27.43	3.05	0.00	0.0	0.00	0.0	1
27.43	30.48	3.05	0.00	0.0	0.00	0.0	1
30.48	33.53	3.05	0.00	0.0	0.00	0.0	1
33.53	35.05	1.52	0.30	19.7	0.00	0.0	1
35.05	36.58	1.53	0.00	0.0	0.00	0.0	1
36.58	39.62	3.04	0.00	0.0	0.00	0.0	1
39.62	42.67	3.05	0.00	0.0	0.00	0.0	1
42.67	45.72	3.05	0.00	0.0	0.00	0.0	1
45.72	48.77	3.05	0.00	0.0	0.00	0.0	1
48.77	51.82	3.05	0.00	0.0	0.00	0.0	1
51.82	54.86	3.04	0.00	0.0	0.00	0.0	1
54.86	57.91	3.05	0.00	0.0	0.00	0.0	1
57.91	60.05	2.14	0.13	6.1	0.00	0.0	1
60.05	63.09	3.04	0.20	6.6	0.00	0.0	1
63.09	66.14	3.05	1.11	36.4	0.51	45.9	2
66.14	69.19	3.05	2.55	83.6	1.36	53.3	3
69.19	72.24	3.05	3.05	100.0	2.59	84.9	3
72.24	75.29	3.05	3.05	100.0	2.26	74.1	3
75.29	78.33	3.04	3.05	100.3	2.55	83.6	3
78.33	81.38	3.05	3.03	99.3	2.82	93.1	3
81.38	84.43	3.05	2.91	95.4	2.68	92.1	3
84.43	87.48	3.05	3.10	101.6	2.45	79.0	3
87.48	90.53	3.05	2.97	97.4	1.76	59.3	3
90.53	93.57	3.04	3.25	106.9	1.70	52.3	3
93.57	96.62	3.05	3.08	101.0	2.06	66.9	3
96.62	99.67	3.05	3.30	108.2	2.10	63.6	3
99.67	102.72	3.05	3.20	104.9	2.52	78.8	3
102.72	105.77	3.05	2.97	97.4	1.83	61.6	2
105.77	108.81	3.04	3.16	103.9	2.53	80.1	2
108.81	111.86	3.05	3.34	109.5	2.79	83.5	3
111.86	114.91	3.05	2.88	94.4	2.40	83.3	2
114.91	117.96	3.05	1.50	49.2	1.26	84.0	3
117.96	121.01	3.05	2.92	95.7	2.63	90.1	3
121.01	124.05	3.04	1.69	55.6	1.11	65.7	3
124.05	127.10	3.05	3.24	106.2	2.64	81.5	3
127.10	130.15	3.05	2.63	86.2	1.61	61.2	3
130.15	133.20	3.05	2.88	94.4	2.16	75.0	2
133.20	136.25	3.05	3.70	121.3	1.25	33.8	1
136.25	139.29	3.04	3.70	121.7	2.78	75.1	2
139.29	142.34	3.05	2.87	94.1	2.59	90.2	2
142.34	145.39	3.05	3.07	100.7	2.81	91.5	2
145.39	148.44	3.05	3.07	100.7		0.0	1

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
148.44	151.49	3.05	3.07	100.7	2.47	80.5	3
151.49	154.53	3.04	3.07	101.0	2.89	94.1	3
154.53	157.58	3.05	3.03	99.3	2.83	93.4	4
157.58	160.63	3.05	3.07	100.7	2.88	93.8	4
160.63	163.68	3.05	3.07	100.7	2.89	94.1	3
163.68	166.73	3.05	3.07	100.7	3.00	97.7	4
166.73	169.77	3.04	3.07	101.0	2.84	92.5	4
169.77	172.82	3.05	2.95	96.7	2.85	96.6	4
172.82	175.87	3.05	3.07	100.7	2.97	96.7	3
175.87	178.92	3.05	3.05	100.0	2.75	90.2	4
178.92	181.97	3.05	3.12	102.3	2.98	95.5	4
181.97	185.01	3.04	2.99	98.4	2.94	98.3	4
185.01	188.06	3.05	3.08	101.0	2.83	91.9	3
188.06	191.11	3.05	3.08	101.0	2.78	90.3	3
191.11	194.16	3.05	3.07	100.7	1.07	34.9	3
194.16	197.21	3.05	3.08	101.0	2.53	82.1	4
197.21	200.25	3.04	3.22	105.9	2.89	89.8	4
200.25	203.30	3.05	3.00	98.4	2.48	82.7	3
203.30	206.35	3.05	3.03	99.3	2.63	86.8	3
206.35	209.40	3.05	3.08	101.0	2.00	64.9	3
209.40	212.45	3.05	2.94	96.4	2.90	98.6	4
212.45	215.49	3.04	3.10	102.0	2.01	64.8	3
215.49	218.54	3.05	3.12	102.3	2.19	70.2	3
218.54	221.59	3.05	3.36	110.2	2.19	65.2	2
221.59	224.64	3.05	3.20	104.9	1.82	56.9	2
224.64	227.69	3.05	3.18	104.3	2.28	71.7	2
227.69	230.73	3.04	3.12	102.6	1.61	51.6	1
230.73	233.78	3.05	3.03	99.3	2.64	87.1	3
233.78	236.83	3.05	3.31	108.5	2.15	65.0	3
236.83	239.88	3.05	3.20	104.9	1.97	61.6	3
239.88	242.93	3.05	2.70	88.5	1.92	71.1	3
242.93	245.97	3.04	2.88	94.7	2.48	86.1	3
245.97	249.02	3.05	2.70	88.5	2.44	90.4	3
249.02	252.07	3.05	3.01	98.7	2.49	82.7	3
252.07	255.12	3.05	2.70	88.5	1.82	67.4	3
255.12	258.17	3.05	2.88	94.4	1.80	62.5	3
258.17	261.21	3.04	2.90	95.4	1.95	67.2	3
261.21	264.26	3.05	2.43	79.7	1.75	72.0	3
264.26	267.31	3.05	2.89	94.8	2.35	81.3	3
267.31	270.36	3.05	2.69	88.2	1.95	72.5	3
270.36	273.41	3.05	2.90	95.1	1.03	35.5	3
273.41	276.45	3.04	2.70	88.8	2.05	75.9	3
276.45	279.50	3.05	3.08	101.0	1.18	38.3	3
279.50	282.55	3.05	3.19	104.6	1.97	61.8	3
282.55	285.60	3.05	3.14	103.0	2.62	83.4	4
285.60	288.65	3.05	3.09	101.3	2.41	78.0	4
288.65	291.69	3.04	3.18	104.6	2.55	80.2	4
291.69	294.74	3.05	3.04	99.7	2.74	90.1	4
294.74	297.79	3.05	3.07	100.7	2.68	87.3	4
297.79	300.84	3.05	3.05	100.0	2.33	76.4	4
300.84	303.89	3.05	3.32	108.9	2.20	66.3	4
303.89	306.93	3.04	3.38	111.2	1.12	33.1	3
306.93	309.98	3.05	3.35	109.8	1.79	53.4	3
309.98	313.03	3.05	3.26	106.9	2.38	73.0	4
313.03	316.08	3.05	3.00	98.4	1.89	63.0	3
316.08	319.13	3.05	3.02	99.0	2.66	88.1	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
319.13	322.17	3.04	3.21	105.6	2.52	78.5	4
322.17	325.22	3.05	3.11	102.0	2.41	77.5	4
325.22	328.27	3.05	2.97	97.4	2.86	96.3	4
328.27	331.32	3.05	3.12	102.3	2.82	90.4	5
331.32	334.37	3.05	3.07	100.7	3.02	98.4	4
334.37	337.41	3.04	3.07	101.0	2.75	89.6	4
337.41	340.46	3.05	3.10	101.6	2.46	79.4	4
340.46	343.51	3.05	3.08	101.0	2.80	90.9	4
343.51	346.56	3.05	3.09	101.3	2.60	84.1	4
346.56	349.61	3.05	3.10	101.6	2.48	80.0	3
349.61	352.65	3.04	3.14	103.3	1.13	36.0	2
352.65	355.70	3.05	3.21	105.2	2.75	85.7	4
355.70	358.75	3.05	3.11	102.0	2.36	75.9	3
358.75	361.80	3.05	3.13	102.6	1.85	59.1	2
361.80	364.85	3.05	3.10	101.6	2.23	71.9	3
364.85	367.89	3.04	3.12	102.6	2.02	64.7	3
367.89	370.94	3.05	3.10	101.6	1.88	60.6	2
370.94	373.99	3.05	3.14	103.0	2.36	75.2	3
373.99	377.04	3.05	3.11	102.0	2.99	96.1	4
377.04	380.09	3.05	3.15	103.3	2.67	84.8	3
380.09	383.13	3.04	3.13	103.0	2.13	68.1	3
383.13	386.18	3.05	3.03	99.3	2.44	80.5	4
386.18	389.23	3.05	3.07	100.7	2.96	96.4	4
389.23	392.28	3.05	3.02	99.0	2.64	87.4	4
392.28	395.33	3.05	3.00	98.4	2.62	87.3	4
395.33	398.37	3.04	3.07	101.0	2.88	93.8	3
398.37	401.42	3.05	3.10	101.6	2.25	72.6	3
401.42	404.47	3.05	3.06	100.3	2.07	67.6	2
404.47	407.52	3.05	3.02	99.0	2.46	81.5	3
407.52	410.57	3.05	3.18	104.3	2.77	87.1	4
410.57	413.61	3.04	2.88	94.7	2.16	75.0	2
413.61	416.66	3.05	2.60	85.2	0.60	23.1	3
416.66	419.71	3.05	3.01	98.7	1.38	45.8	3
419.71	422.76	3.05	2.69	88.2	1.02	37.9	3
422.76	425.81	3.05	2.65	86.9	1.40	52.8	3
425.81	428.85	3.04	2.90	95.4	1.79	61.7	4
428.85	431.90	3.05	2.28	74.8	0.96	42.1	4
431.90	434.95	3.05	2.49	81.6	0.82	32.9	4
434.95	438.00	3.05	2.75	90.2	1.95	70.9	4
438.00	441.05	3.05	2.60	85.2	1.25	48.1	4
441.05	444.09	3.04	2.99	98.4	1.46	48.8	3
444.09	447.14	3.05	2.37	77.7	1.05	44.3	4
447.14	450.19	3.05	2.64	86.6	0.36	13.6	4
450.19	453.24	3.05	2.26	74.1	0.00	0.0	3
453.24	456.29	3.05	2.63	86.2	0.83	31.6	4
456.29	459.33	3.04	2.93	96.4	2.10	71.7	3
459.33	462.38	3.05	2.92	95.7	1.49	51.0	4
462.38	465.43	3.05	2.95	96.7	1.94	65.8	4
465.43	468.48	3.05	2.85	93.4	1.12	39.3	4
468.48	471.53	3.05	2.68	87.9	0.92	34.3	3
471.53	474.57	3.04	2.97	97.8	1.28	43.1	4
474.57	477.62	3.05	3.05	100.0	1.56	51.1	4
477.62	480.67	3.05	2.65	86.9	1.18	44.5	4
480.67	483.72	3.05	2.88	94.4	1.38	47.9	4
483.72	486.77	3.05	2.86	93.8	1.61	56.3	4
486.77	489.81	3.04	2.85	93.7	1.63	57.2	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
489.81	492.86	3.05	2.87	94.1	1.54	53.7	4
492.86	495.91	3.05	2.36	77.4	0.40	16.9	4
495.91	498.96	3.05	2.83	92.8	0.85	30.0	4
498.96	502.01	3.05	2.92	95.7	0.22	7.5	3
502.01	505.05	3.04	3.18	104.6	1.99	62.6	4
505.05	508.10	3.05	2.95	96.7	2.19	74.2	4
508.10	511.15	3.05	3.05	100.0	2.08	68.2	4
511.15	514.2	3.05	3.03	99.3	1.75	57.8	4
514.2	517.25	3.05	2.79	91.5	1.82	65.2	3.5
517.25	520.29	3.04	2.87	94.4	1.87	65.2	4
520.29	523.34	3.05	3.08	101.0	1.63	52.9	4
523.34	526.39	3.05	2.89	94.8	1.76	60.9	4.5
526.39	529.44	3.05	2.85	93.4	2	70.2	4.5
529.44	532.49	3.05	3.05	100.0	2.87	94.1	4.5
532.49	535.53	3.04	2.94	96.7	2.28	77.6	4.5
535.53	538.58	3.05	2.06	67.5	0.59	28.6	4.5
538.58	541.63	3.05	2.81	92.1	1.34	47.7	4.5
541.63	544.68	3.05	3	98.4	2.31	77.0	4
544.68	547.73	3.05	2.94	96.4	2.32	78.9	4
547.73	550.77	3.04	2.22	73.0	2.22	100.0	4
550.77	553.82	3.05	2.98	97.7	2.98	100.0	4
553.82	556.87	3.05	2.65	86.9	2.65	100.0	4
556.87	559.92	3.05	2.42	79.3	2.42	100.0	4
559.92	562.97	3.05	1.62	53.1	1.62	100.0	3.5
562.97	566.01	3.04	1.65	54.3	1.65	100.0	3
566.01	569.06	3.05	1.23	40.3	1.23	100.0	4
569.06	572.11	3.05	2.53	83.0	2.53	100.0	4.5
572.11	575.16	3.05	2.51	82.3	2.51	100.0	4.5
575.16	580.64	5.48	1.03	18.8	1.03	100.0	4.5

Date:Sept 1/02

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole Hole KN-02-36

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	6.10	6.10	0.00	0.0	0.00	0.0	1
6.10	7.32	1.22	0.60	49.2	0.00	0.0	1
7.32	9.45	2.13	0.50	23.5	0.00	0.0	1
9.45	12.80	3.35	3.06	91.3	0.13	4.2	1
12.80	14.33	1.53	2.06	134.6	0.58	28.2	4
14.33	15.85	1.52	1.64	107.9	0.98	59.8	4
15.85	17.37	1.52	1.34	88.2	1.11	82.8	4
17.37	18.90	1.53	1.53	100.0	0.99	64.7	4
18.90	20.42	1.52	1.70	111.8	0.96	56.5	4
20.42	21.97	1.55	1.56	100.6	1.28	82.1	4
21.97	23.47	1.50	1.61	107.3	1.05	65.2	4
23.47	24.99	1.52	1.86	122.4	0.70	37.6	4
24.99	26.52	1.53	1.56	102.0	0.11	7.1	4
26.52	28.04	1.52	1.61	105.9	0.78	48.4	4
28.04	29.57	1.53	1.26	82.4	0.44	34.9	4
29.57	31.09	1.52	1.80	118.4	0.48	26.7	4
31.09	32.61	1.52	1.56	102.6	0.45	28.8	4
32.61	34.14	1.53	0.32	20.9	0.00	0.0	4
34.14	35.66	1.52	1.51	99.3	0.69	45.7	4
35.66	39.62	3.96	4.40	111.1	1.70	38.6	4
39.62	41.76	2.14	1.70	79.4	1.09	64.1	4
41.76	44.81	3.05	3.08	101.0	0.79	25.6	4
44.81	47.85	3.04	2.87	94.4	0.66	23.0	3
47.85	50.90	3.05	3.28	107.5	1.40	42.7	3
50.90	53.95	3.05	3.32	108.9	2.13	64.2	3
53.95	57.00	3.05	3.33	109.2	1.83	55.0	3
57.00	60.05	3.05	3.18	104.3	1.58	49.7	4
60.05	63.09	3.04	3.46	113.8	1.47	42.5	2
63.09	66.14	3.05	3.30	108.2	1.76	53.3	2
66.14	69.19	3.05	3.25	106.6	1.27	39.1	2
69.19	72.24	3.05	3.31	108.5	0.36	10.9	1
72.24	75.29	3.05	3.07	100.7	0.78	25.4	2
75.29	78.33	3.04	3.40	111.8	0.79	23.2	2
78.33	81.38	3.05	2.92	95.7	0.71	24.3	2
81.38	84.43	3.05	3.00	98.4	0.26	8.7	1
84.43	87.48	3.05	2.94	96.4	0.45	15.3	1
87.48	90.53	3.05	3.07	100.7	1.33	43.3	2
90.53	93.57	3.04	2.94	96.7	1.35	45.9	2
93.57	96.62	3.05	3.12	102.3	2.24	71.8	3
96.62	99.69	3.07	3.21	104.6	1.83	57.0	3
99.69	102.72	3.03	3.19	105.3	1.38	43.3	3
102.72	105.77	3.05	3.07	100.7	1.90	61.9	3
105.77	108.81	3.04	2.02	66.4	1.89	93.6	3
108.81	111.86	3.05	3.25	106.6	1.37	42.2	2
111.86	114.91	3.05	3.00	98.4	1.57	52.3	1
114.91	117.96	3.05	3.65	119.7	1.45	39.7	1
117.96	121.31	3.35	3.42	102.1	1.19	34.8	2
121.31	124.05	2.74	2.90	105.8	1.50	51.7	3
124.05	127.10	3.05	3.04	99.7	2.26	74.3	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
127.10	130.15	3.05	3.25	106.6	2.61	80.3	3
130.15	133.20	3.05	3.23	105.9	1.59	49.2	2
133.20	136.25	3.05	3.00	98.4	1.50	50.0	2
136.25	142.34	6.09	6.73	110.5	5.80	86.2	3
142.34	145.39	3.05	3.13	102.6	1.42	45.4	2
145.39	148.44	3.05	3.07	100.7	1.10	35.8	1
148.44	151.49	3.05	3.11	102.0	2.53	81.4	3
151.49	154.53	3.04	3.04	100.0	1.56	51.3	2
154.53	157.58	3.05	3.72	122.0	2.27	61.0	2
157.58	160.63	3.05	3.17	103.9	2.40	75.7	3
160.63	163.68	3.05	3.19	104.6	1.97	61.8	2
163.68	166.73	3.05	3.30	108.2	1.93	58.5	3
166.73	169.77	3.04	3.30	108.6	1.82	55.2	2
169.77	172.82	3.05	3.18	104.3	2.41	75.8	3
172.82	175.87	3.05	3.05	100.0	2.00	65.6	3
175.87	178.92	3.05	3.30	108.2	1.85	56.1	2
178.92	181.97	3.05	3.24	106.2	1.68	51.9	3
181.97	185.01	3.04	3.05	100.3	2.23	73.1	3
185.01	188.06	3.05	3.07	100.7	2.21	72.0	3
188.06	191.11	3.05	3.20	104.9	2.01	62.8	3
191.11	194.16	3.05	3.20	104.9	2.28	71.3	3
194.16	197.21	3.05	3.22	105.6	1.84	57.1	3
197.21	200.25	3.04	3.16	103.9	2.42	76.6	3
200.25	203.30	3.05	3.36	110.2	1.39	41.4	2
203.30	206.35	3.05	3.32	108.9	2.31	69.6	3
206.35	209.40	3.05	3.00	98.4	1.71	57.0	3
209.40	212.45	3.05	3.34	109.5	1.49	44.6	3
212.45	215.49	3.04	3.27	107.6	1.93	59.0	3
215.49	218.54	3.05	3.11	102.0	1.80	57.9	3
218.54	221.59	3.05	3.15	103.3	0.89	28.3	2
221.59	224.64	3.05	3.16	103.6	1.65	52.2	2
224.64	227.69	3.05	3.14	103.0	2.44	77.7	3
227.69	230.73	3.04	3.10	102.0	2.64	85.2	4
230.73	233.78	3.05	3.17	103.9	1.76	55.5	3
233.78	236.83	3.05	3.26	106.9	1.32	40.5	2
236.83	239.88	3.05	3.07	100.7	1.99	64.8	3
239.88	242.93	3.05	3.47	113.8	2.01	57.9	3
242.93	245.97	3.04	3.07	101.0	2.21	72.0	3
245.97	252.07	6.10	6.44	105.6	3.46	53.7	3
252.07	254.51	2.44	2.61	107.0	1.47	56.3	3
254.51	258.78	4.27	4.50	105.4	2.98	66.2	3
258.78	260.91	2.13	2.05	96.2	0.84	41.0	3
260.91	264.57	3.66	3.83	104.6	2.62	68.4	4
264.57	267.61	3.04	3.50	115.1	2.18	62.3	3
267.61	269.44	1.83	1.69	92.3	0.88	52.1	4
269.44	273.41	3.97	4.05	102.0	2.66	65.7	4
273.41	276.45	3.04	3.64	119.7	2.16	59.3	4
276.45	282.55	6.10	5.94	97.4	4.80	80.8	4
282.55	285.60	3.05	3.00	98.4	2.17	72.3	3
285.60	288.65	3.05	3.21	105.2	2.32	72.3	3
288.65	291.69	3.04	3.07	101.0	2.03	66.1	3
291.69	297.79	6.10	5.80	95.1	4.61	79.5	4
297.79	300.84	3.05	3.15	103.3	2.10	66.7	4
300.84	303.89	3.05	3.08	101.0	1.82	59.1	3
303.89	306.93	3.04	2.84	93.4	1.76	62.0	3
306.93	313.03	6.10	5.93	97.2	4.87	82.1	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
313.03	316.08	3.05	3.44	112.8	3.07	89.2	3
316.08	320.95	4.87	4.73	97.1	3.73	78.9	4
320.95	324.61	3.66	3.80	103.8	2.48	65.3	3
324.61	326.44	1.83	1.95	106.6	0.48	24.6	2
326.44	330.10	3.66	3.46	94.5	2.59	74.9	3
330.10	333.76	3.66	4.04	110.4	3.00	74.3	4
333.76	337.11	3.35	3.14	93.7	2.51	79.9	4
337.11	342.90	5.79	6.05	104.5	4.61	76.2	3
342.90	348.39	5.49	5.63	102.6	4.03	71.6	3
348.39	352.09	3.70	3.90	105.4	1.79	45.9	2
352.09	358.44	6.35	6.40	100.8	4.89	76.4	3
358.44	364.85	6.41	6.41	100.0	3.85	60.1	3
364.85	370.64	5.79	5.84	100.9	4.34	74.3	3
370.64	377.04	6.40	6.81	106.4	4.36	64.0	3
377.04	380.09	3.05	3.39	111.1	2.25	66.4	3
380.09	383.13	3.04	3.07	101.0	0.92	30.0	2
383.13	386.18	3.05	2.86	93.8	1.04	36.4	2
386.18	389.23	3.05	3.07	100.7	1.62	52.8	3
389.23	392.28	3.05	3.04	99.7	1.63	53.6	3
392.28	395.33	3.05	3.52	115.4	1.48	42.0	2
395.33	398.07	2.74	2.62	95.6	0.86	32.8	2
398.07	401.42	3.35	3.88	115.8	0.60	15.5	2
401.42	406.60	5.18	5.18	100.0	3.30	63.7	2
406.60	412.70	6.10	6.61	108.4	4.18	63.2	3
412.70	416.66	3.96	4.00	101.0	3.11	77.8	2
416.66	419.77	3.11	3.08	99.0	2.93	95.1	3
419.77	425.81	6.04	5.98	99.0	4.28	71.6	2.5
425.81	431.90	6.09	6.34	104.1	4.76	75.1	2.5
431.90	434.95	3.05	3.24	106.2	2.28	70.4	2.5
434.95	438.00	3.05	2.99	98.0	2.37	79.3	2.5
438.00	441.05	3.05	2.92	95.7	2.14	73.3	2.5
441.05	445.62	4.57	4.65	101.8	3.74	80.4	2.5
445.62	449.28	3.66	3.08	84.2	1.91	62.0	2.5
449.28	453.54	4.26	4.17	97.9	2.37	56.8	2.5
453.54	459.33	5.79	5.84	100.9	3.98	68.2	2.5
459.33	465.43	6.10	5.96	97.7	4.31	72.3	2.5
465.43	471.53	6.10	6.00	98.4	4.30	71.7	2.5
471.53	477.62	6.09	6.05	99.3	3.00	49.6	2.5
477.62	483.72	6.10	5.70	93.4	3.61	63.3	3
483.72	489.81	6.09	6.05	99.3	3.59	59.3	4
489.81	492.86	3.05	2.79	91.5	2.08	74.6	4
492.86	498.96	6.10	6.25	102.5	3.11	49.8	4
498.96	502.01	3.05	2.66	87.2	1.66	62.4	4
502.01	505.05	3.04	2.40	78.9	0.79	32.9	4.5
505.05	511.15	6.10	6.36	104.3	3.84	60.4	4
511.15	514.20	3.05	3.03	99.3	1.63	53.8	4
514.20	517.55	3.35	3.07	91.6	0.66	21.5	4.5
517.55	523.34	5.79	5.24	90.5	1.91	36.5	4.5
523.34	529.44	6.10	6.10	100.0	3.78	62.0	4.5
529.44	534.01	4.57	4.62	101.1	2.01	43.5	4.5
534.01	540.41	6.40	6.31	98.6	5.05	80.0	4.5
540.41	541.63	1.22	1.22	100.0	0.68	55.7	4.5
541.63	547.73	6.10	5.94	97.4	4.69	79.0	4.5
547.73	551.08	3.35	3.29	98.2	1.78	54.1	5
551.08	556.87	5.79	5.47	94.5	2.70	49.4	5
556.87	562.97	6.10	5.87	96.2	4.18	71.2	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
562.97	569.06	6.09	6.08	99.8	2.21	36.3	4.5
569.06	574.24	5.18	4.15	80.1	1.37	33.0	5
574.24	580.34	6.10	6.07	99.5	1.51	24.9	4.5
580.34	586.74	6.40	5.68	88.8	1.80	31.7	4.5

Date: Oct-28-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-37

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
3.23	5.18	1.95	2.60	133	1.05	54	1.0
5.18	8.23	3.05	2.76	90	0.95	31	1.0
8.23	11.28	3.05	2.96	97	0.28	9	1.0
11.28	14.33	3.05	4.50	148	0.44	14	1.0
14.33	20.42	6.09	6.20	102	2.40	39	3.0
20.42	23.47	3.05	2.25	74	0.25	8	2.0
23.47	26.52	3.05	2.28	75	0.90	30	3.0
26.52	29.57	3.05	3.00	98	2.05	67	5.0
29.57	31.09	1.52	1.30	86	1.03	68	4.0
31.09	34.14	3.05	2.94	96	2.25	74	4.0
34.14	37.19	3.05	3.05	100	1.55	51	3.0
37.19	40.23	3.04	3.27	108	1.30	43	3.0
40.23	43.28	3.05	2.97	97	2.28	75	4.0
43.28	46.33	3.05	2.93	96	2.74	90	4.0
46.33	49.38	3.05	3.16	104	1.62	53	3.0
49.38	52.43	3.05	2.19	72	1.71	56	3.0
52.43	55.47	3.04	2.90	95	2.15	71	3.0
55.47	58.52	3.05	3.30	108	1.92	63	3.0
58.52	61.57	3.05	3.00	98	2.00	66	3.0
61.57	64.62	3.05	3.27	107	1.17	38	3.0
64.62	67.67	3.05	3.42	112	2.40	79	4.0
67.67	70.71	3.04	3.02	99	2.41	79	5.0
70.71	73.76	3.05	3.18	104	1.95	64	3.0
73.76	76.81	3.05	2.99	98	2.30	75	4.0
76.81	79.86	3.05	2.98	98	2.35	77	4.5
79.86	82.91	3.05	3.05	100	2.80	92	4.5
82.91	85.95	3.04	3.10	102	2.99	98	4.5
85.95	89.00	3.05	2.68	88	2.35	77	4.5
89.00	92.05	3.05	3.10	102	2.82	92	4.5
92.05	95.10	3.05	3.03	99	2.87	94	4.5
95.10	98.15	3.05	2.84	93	2.52	83	4.5
98.15	101.19	3.04	3.05	100	2.30	76	4.5
101.19	104.25	3.06	2.97	97	2.85	93	4.5
104.25	107.29	3.04	3.05	100	2.75	90	4.5
107.29	110.34	3.05	3.00	98	2.73	90	4.5
110.34	113.39	3.05	2.94	96	2.36	77	5.0
113.39	116.43	3.04	2.82	93	1.70	56	4.5
116.43	119.48	3.05	2.91	95	2.40	79	4.5
119.48	122.53	3.05	2.92	96	1.95	64	4.5
122.53	125.58	3.05	3.09	101	2.50	82	4.5
125.58	128.63	3.05	3.00	98	2.38	78	4.5
128.63	131.67	3.04	3.03	100	2.91	96	4.5
131.67	134.72	3.05	3.07	101	2.78	91	4.0
134.72	137.77	3.05	3.05	100	2.57	84	4.5
137.77	140.82	3.05	3.00	98	2.75	90	4.5
140.82	143.87	3.05	3.10	102	2.60	85	4.5
143.87	146.91	3.04	3.03	100	2.75	90	4.5
146.91	149.96	3.05	3.00	98	2.74	90	4.5
149.96	153.01	3.05	2.98	98	2.39	78	4.5
153.01	156.06	3.05	3.10	102	2.52	83	4.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
156.06	159.11	3.05	3.01	99	2.61	86	4.5
159.11	162.15	3.04	3.03	100	2.07	68	4.5
162.15	165.20	3.05	3.09	101	2.52	83	4.5
165.20	168.25	3.05	3.11	102	2.34	77	5.0
168.25	171.30	3.05	3.23	106	2.33	76	4.5
171.30	174.35	3.05	3.08	101	2.85	93	4.5
174.35	177.39	3.04	3.12	103	2.40	79	4.0
177.39	180.44	3.05	3.04	100	1.77	58	4.0
180.44	183.49	3.05	3.10	102	2.43	80	4.5
183.49	186.54	3.05	3.13	103	1.87	61	4.5
186.54	189.59	3.05	3.00	98	2.26	74	4.0
189.59	192.63	3.04	2.98	98	2.19	72	4.0
192.63	195.68	3.05	3.08	101	2.48	81	4.0
195.68	198.73	3.05	3.00	98	2.61	86	4.0
198.73	201.78	3.05	3.22	106	2.87	94	4.0
201.78	204.83	3.05	3.10	102	2.36	77	4.0
204.83	207.87	3.04	3.03	100	2.83	93	4.0
207.87	210.92	3.05	3.14	103	2.37	78	4.0
210.92	213.97	3.05	3.01	99	2.37	78	4.0
213.97	217.02	3.05	3.18	104	2.69	88	4.0
217.02	220.07	3.05	2.97	97	2.35	77	4.5
220.07	223.11	3.04	3.23	106	2.05	67	3.0
223.11	226.13	3.02	3.08	102	2.87	95	4.0
226.13	229.21	3.08	3.05	99	2.35	76	3.5
229.21	232.26	3.05	3.15	103	2.44	80	4.0
232.26	235.31	3.05	3.09	101	2.28	75	4.0
235.31	238.35	3.04	3.00	99	2.78	91	4.0
238.35	241.40	3.05	3.21	105	2.69	88	5.0
241.40	244.45	3.05	2.96	97	2.51	82	5.0
244.45	247.50	3.05	3.05	100	2.54	83	5.0
247.50	250.55	3.05	3.00	98	2.19	72	4.5
250.55	253.59	3.04	3.12	103	2.48	82	4.5
253.59	256.64	3.05	2.85	93	1.77	58	4.5
256.64	259.69	3.05	3.06	100	2.65	87	4.0
259.69	262.74	3.05	2.96	97	2.21	72	4.0
262.74	265.79	3.05	3.03	99	1.89	62	4.5
265.79	268.83	3.04	3.12	103	2.94	97	4.5
268.83	271.88	3.05	2.80	92	2.28	75	4.5
271.88	274.93	3.05	3.04	100	2.52	83	4.5
274.93	277.98	3.05	3.09	101	2.43	80	4.5
277.98	281.03	3.05	3.11	102	2.81	92	4.5
281.03	284.07	3.04	3.10	102	2.92	96	4.5
284.07	287.12	3.05	3.07	101	3.01	99	4.5
287.12	290.17	3.05	3.05	100	2.29	75	4.5
290.17	293.22	3.05	2.75	90	1.88	62	4.0
293.22	296.27	3.05	2.93	96	2.21	72	4.0
296.27	299.31	3.04	3.03	100	2.48	82	4.0
299.31	302.36	3.05	2.79	91	1.63	53	3.5
302.36	305.41	3.05	3.05	100	2.73	90	4.5
305.41	308.46	3.05	3.08	101	2.75	90	4.5
308.46	311.51	3.05	3.05	100	2.04	67	4.0
311.51	314.55	3.04	2.97	98	2.90	95	4.5
314.55	317.60	3.05	3.06	100	2.32	76	4.0
317.60	320.65	3.05	2.97	97	2.51	82	4.0
320.65	323.70	3.05	3.03	99	2.64	87	4.0
323.70	326.75	3.05	3.01	99	2.09	69	4.0

Date:sept 07 02

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole Hole: KN-02-38

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	54.86	54.86	0.00	0.0	0.00	0.0	1
54.86	57.91	3.05	0.00	0.0	0.00	0.0	1
57.91	70.10	12.19	0.00	0.0	0.00	0.0	1
70.10	73.15	3.05	0.00	0.0	0.00	0.0	1
73.15	76.20	3.05	0.00	0.0	0.00	0.0	1
76.20	88.39	12.19	0.00	0.0	0.00	0.0	1
88.39	91.44	3.05	1.21	39.7	1.12	36.7	1
91.44	92.96	1.52	0.96	63.2	0.54	35.5	1
92.96	94.49	1.53	1.20	78.4	0.36	23.5	1
94.49	95.71	1.22	1.08	88.5	0.44	36.1	1
95.71	96.62	0.91	0.51	56.0	0.00	0.0	1
96.62	99.67	3.05	2.92	95.7	1.23	40.3	1
99.67	102.72	3.05	3.00	98.4	1.62	53.1	2
102.72	105.77	3.05	3.12	102.3	2.38	78.0	2
105.77	108.81	3.04	3.13	103.0	2.06	67.8	2
108.81	111.86	3.05	2.89	94.8	1.21	39.7	2
111.86	114.91	3.05	0.22	7.2	0.00	0.0	1
114.91	117.96	3.05	0.74	24.3	0.00	0.0	1
117.96	121.01	3.05	0.19	6.2	0.00	0.0	1
121.01	124.05	3.04	0.00	0.0	0.00	0.0	1
124.05	127.10	3.05	0.00	0.0	0.00	0.0	1
127.10	130.15	3.05	0.00	0.0	0.00	0.0	1
130.15	133.20	3.05	1.00	32.8	1.00	32.8	3
133.20	136.25	3.05	3.06	100.3	2.65	86.9	4
136.25	139.29	3.04	3.69	121.4	2.92	96.1	3
139.29	142.34	3.05	2.91	95.4	2.79	91.5	4
142.34	145.39	3.05	2.68	87.9	1.85	60.7	3
145.39	148.44	3.05	2.98	97.7	1.69	55.4	3
148.44	149.96	1.52	1.80	118.4	1.77	116.4	4
149.96	154.53	4.57	4.38	95.8	3.91	85.6	4
154.53	157.58	3.05	3.00	98.4	2.83	92.8	4
157.58	160.63	3.05	2.93	96.1	2.72	89.2	4
160.63	163.68	3.05	3.03	99.3	2.75	90.2	3
163.68	166.73	3.05	2.98	97.7	2.86	93.8	4
166.73	169.77	3.04	2.97	97.7	2.18	71.7	3
169.77	172.82	3.05	2.76	90.5	1.52	49.8	2
172.82	175.87	3.05	2.92	95.7	1.09	35.7	1
175.87	178.92	3.05	2.93	96.1	2.33	76.4	3
178.92	181.97	3.05	2.98	97.7	2.06	67.5	3
181.97	185.01	3.04	3.01	99.0	2.86	94.1	4
185.01	188.06	3.05	2.97	97.4	2.08	68.2	3
188.06	191.11	3.05	2.92	95.7	2.48	81.3	3
191.11	194.16	3.05	2.96	97.0	2.63	86.2	4
194.16	197.21	3.05	2.97	97.4	2.68	87.9	3
197.21	200.25	3.04	3.14	103.3	2.98	98.0	4
200.25	203.30	3.05	2.89	94.8	2.89	94.8	5
203.30	206.35	3.05	3.30	108.2	3.13	102.6	4
206.35	209.40	3.05	3.08	101.0	2.65	86.9	3
209.40	212.45	3.05	2.92	95.7	2.53	83.0	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
212.45	215.49	3.04	3.19	104.9	2.96	97.4	4
215.49	218.54	3.05	3.10	101.6	2.95	96.7	4
218.54	220.07	1.53	1.43	93.3	1.23	80.2	4
220.07	221.59	1.52	1.07	70.5	1.07	70.5	5
221.59	224.64	3.05	3.10	101.6	3.06	100.3	4
224.64	227.69	3.05	2.96	97.0	2.46	80.7	3
227.69	230.73	3.04	3.13	103.0	3.07	101.0	4
230.73	233.78	3.05	3.16	103.6	3.13	102.6	5
233.78	236.83	3.05	3.04	99.7	2.70	88.5	4
236.83	239.88	3.05	3.08	101.0	3.00	98.4	4
239.88	242.93	3.05	3.10	101.6	2.90	95.1	4
242.93	245.97	3.04	3.09	101.6	3.09	101.6	5
245.97	249.02	3.05	3.18	104.3	3.06	100.3	4
249.02	252.07	3.05	3.13	102.6	2.93	96.1	5
252.07	255.12	3.05	4.56	149.5	4.26	139.7	4
255.12	258.17	3.05	3.18	104.3	3.18	104.3	5
258.17	261.21	3.04	3.00	98.7	2.76	90.8	4
261.21	264.26	3.05	3.00	98.4	2.67	87.5	4
264.26	267.31	3.05	3.05	100.0	2.68	87.9	4
267.31	270.36	3.05	3.06	100.3	2.67	87.5	4
270.36	273.41	3.05	3.04	99.7	2.22	72.8	4
273.41	276.45	3.04	2.92	96.1	1.91	62.8	4
276.45	279.50	3.05	2.95	96.7	2.35	77.0	4
279.50	282.55	3.05	2.74	89.8	1.73	56.7	3.5
282.55	285.60	3.05	2.92	95.7	1.22	40.0	3
285.60	288.65	3.05	3.10	101.6	2.32	76.1	3
288.65	290.17	1.52	1.52	100.0	1.13	74.3	3.5
290.17	291.69	1.52	1.47	96.7	0.70	46.1	3.5
291.69	294.74	3.05	3.08	101.0	1.64	53.8	4
294.74	297.79	3.05	2.87	94.1	2.27	74.4	3.5
297.79	300.84	3.05	2.83	92.8	2.51	82.3	3
300.84	303.89	3.05	2.77	90.8	2.10	68.9	3
303.89	306.93	3.04	2.98	98.0	2.78	91.4	3.5
306.93	309.98	3.05	2.97	97.4	1.11	36.4	3
309.98	313.03	3.05	2.37	77.7	0.74	24.3	3
313.03	316.08	3.05	2.43	79.7	0.67	22.0	3
316.08	319.13	3.05	2.77	90.8	1.45	47.5	3
319.13	322.17	3.04	2.74	90.1	1.62	53.3	3
322.17	325.22	3.05	2.47	81.0	1.25	41.0	3
325.22	328.27	3.05	2.83	92.8	1.73	56.7	3
328.27	331.32	3.05	2.37	77.7	1.58	51.8	3
331.32	334.37	3.05	2.63	86.2	0.58	19.0	3
334.37	337.41	3.04	1.64	53.9	0.12	3.9	3
337.41	340.46	3.05	2.64	86.6	1.33	43.6	3
340.46	343.51	3.05	2.90	95.1	1.47	48.2	3
343.51	344.73	1.22	0.87	71.3	0.44	36.1	3
344.73	346.56	1.83	1.88	102.7	1.06	57.9	3
346.56	349.61	3.05	3.05	100.0	1.35	44.3	4
349.61	352.65	3.04	2.51	82.6	0.77	25.3	3.5
352.65	355.70	3.05	3.03	99.3	1.95	63.9	3
355.70	358.75	3.05	2.97	97.4	2.36	77.4	3
358.75	361.80	3.05	2.98	97.7	2.60	85.2	3.5
361.80	364.85	3.05	2.95	96.7	2.71	88.9	3
364.85	367.89	3.04	3.02	99.3	2.13	70.1	3
367.89	370.94	3.05	3.08	101.0	2.36	77.4	3
370.94	373.99	3.05	3.04	99.7	2.41	79.0	3

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
373.99	377.04	3.05	2.95	96.7	1.72	56.4	3
377.04	380.09	3.05	3.08	101.0	2.64	86.6	3
380.09	383.13	3.04	3.00	98.7	2.20	72.4	3
383.13	386.18	3.05	2.90	95.1	1.10	36.1	3.5
386.18	389.23	3.05	2.79	91.5	1.90	62.3	3.5
389.23	392.28	3.05	3.08	101.0	1.58	51.8	3
392.28	395.33	3.05	2.92	95.7	1.77	58.0	3.5
395.33	398.37	3.04	2.96	97.4	1.34	44.1	3.5
398.37	399.90	1.53	1.45	94.8	1.29	84.3	3
399.90	401.42	1.52	1.48	97.4	1.09	71.7	3
401.42	402.95	1.53	1.39	90.8	0.26	17.0	2.5
402.95	405.99	3.04	3.03	99.7	0.97	31.9	2.5
405.99	409.04	3.05	2.65	86.9	0.50	16.4	2.5
409.04	412.09	3.05	2.95	96.7	1.37	44.9	2.5
412.09	415.14	3.05	2.48	81.3	0.88	28.9	3
415.14	418.19	3.05	2.54	83.3	0.71	23.3	2.5
418.19	421.23	3.04	3.05	100.3	2.34	77.0	2.5
421.23	424.28	3.05	2.95	96.7	1.54	50.5	2
424.28	427.33	3.05	2.67	87.5	1.37	44.9	2.5
427.33	430.38	3.05	2.70	88.5	1.20	39.3	2.5
430.38	433.43	3.05	3.02	99.0	2.77	90.8	3
433.43	436.47	3.04	2.74	90.1	1.93	63.5	3
436.47	439.52	3.05	3.01	98.7	2.81	92.1	4
439.52	442.57	3.05	2.81	92.1	1.71	56.1	3.5
442.57	445.62	3.05	2.98	97.7	2.16	70.8	3
445.62	448.67	3.05	3.07	100.7	2.51	82.3	3.5
448.67	451.71	3.04	2.55	83.9	1.11	36.5	3
451.71	454.76	3.05	2.73	89.5	1.10	36.1	3
454.76	457.81	3.05	2.98	97.7	2.08	68.2	3.5
457.81	460.86	3.05	2.92	95.7	2.42	79.3	3.5
460.86	463.91	3.05	2.55	83.6	0.93	30.5	2.5
463.91	466.95	3.04	2.75	90.5	1.18	38.8	1.5
466.95	470.00	3.05	2.10	68.9	0.61	20.0	3
470.00	473.05	3.05	2.67	87.5	0.89	29.2	3.5
473.05	476.10	3.05	2.64	86.6	1.48	48.5	4
476.10	479.15	3.05	2.92	95.7	1.20	39.3	4
479.15	482.50	3.35	2.81	83.9	0.66	19.7	3.5
482.50	487.38	4.88	5.40	110.7	2.22	45.5	3
487.38	492.25	4.87	4.84	99.4	2.50	51.3	3.5
492.25	497.13	4.88	4.62	94.7	3.37	69.1	3.5
497.13	499.87	2.74	2.32	84.7	0.66	24.1	2
499.87	502.92	3.05	2.06	67.5	0.00	0.0	2.5
502.92	508.41	5.49	4.42	80.5	2.07	37.7	3
508.41	513.28	4.87	4.72	96.9	3.76	77.2	3
513.28	518.16	4.88	4.43	90.8	3.57	73.2	3.5
518.16	522.73	4.57	4.70	102.8	3.45	75.5	3.5
522.73	527.91	5.18	4.83	93.2	3.97	76.6	4
527.91	532.49	4.58	4.35	95.0	3.31	72.3	4
532.49	537.06	4.57	3.64	79.6	2.54	55.6	4
537.06	541.63	4.57	4.06	88.8	2.74	60.0	3
541.63	546.20	4.57	2.70	59.1	1.36	29.8	3
546.20	549.25	3.05	2.57	84.3	1.27	41.6	4
549.25	553.82	4.57	4.20	91.9	2.76	60.4	3.5
553.82	558.39	4.57	3.64	79.6	2.45	53.6	4
558.39	562.97	4.58	4.17	91.0	3.55	77.5	4
562.97	567.54	4.57	3.93	86.0	3.19	69.8	4

Date: Oct 28,2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-39

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	9.75	9.75	0.05	1	0.00	0	1.0
9.75	12.80	3.05	0.44	14	0.00	0	1.0
12.80	15.85	3.05	2.70	89	0.23	8	1.0
15.85	18.90	3.05	2.76	90	0.93	30	2.0
18.90	20.42	1.52	1.01	66	0.00	0	1.0
20.42	21.95	1.53	0.51	33	0.10	7	1.0
21.95	24.99	3.04	1.20	39	0.53	17	2.0
24.99	26.52	1.53	1.60	105	0.94	61	3.0
26.52	28.04	1.52	1.10	72	0.70	46	3.0
28.04	29.57	1.53	1.71	112	1.49	97	3.0
29.57	31.09	1.52	1.42	93	0.97	64	3.0
31.09	32.61	1.52	1.32	87	0.61	40	3.0
32.61	34.14	1.53	1.34	88	1.09	71	3.0
34.14	35.66	1.52	1.35	89	0.36	24	2.0
35.66	37.19	1.53	1.02	67	0.62	41	3.0
37.19	38.71	1.52	0.04	3	0.00	0	1.0
38.71	40.23	1.52	0.05	3	0.00	0	1.0
40.23	43.28	3.05	0.15	5	0.00	0	1.0
43.28	46.33	3.05	0.17	6	0.00	0	1.0
46.33	49.38	3.05	0.60	20	0.00	0	1.0
49.38	52.43	3.05	0.13	4	0.00	0	1.0
52.43	55.47	3.04	2.80	92	0.00	0	1.0
55.47	58.52	3.05	2.58	85	0.00	0	1.0
58.52	61.57	3.05	2.47	81	0.00	0	1.0
61.57	64.62	3.05	1.11	36	0.00	0	1.0
64.62	67.67	3.05	2.48	81	0.00	0	1.0
67.67	70.71	3.04	2.78	91	0.00	0	1.0
70.71	73.76	3.05	1.29	42	0.00	0	1.0
73.76	76.81	3.05	1.60	52	0.00	0	1.0
76.81	79.86	3.05	2.02	66	0.10	3	1.0
79.86	82.91	3.05	0.68	22	0.00	0	1.0
82.91	85.95	3.04	1.35	44	0.00	0	1.0
85.95	89.00	3.05	0.65	21	0.00	0	1.0
89.00	92.05	3.05	0.66	22	0.13	4	1.0
92.05	95.10	3.05	4.74	155	0.76	25	1.0
95.10	98.15	3.05	0.90	30	0.00	0	1.0
98.15	101.19	3.04	1.65	54	0.00	0	1.0
101.19	104.24	3.05	1.12	37	0.10	3	1.0
104.24	107.29	3.05	1.22	40	0.00	0	1.0
107.29	110.34	3.05	0.47	15	0.00	0	1.0
110.34	113.39	3.05	0.86	28	0.00	0	1.0
113.39	116.43	3.04	0.68	22	0.00	0	1.0
116.43	119.48	3.05	0.42	14	0.00	0	1.0
119.48	122.53	3.05	0.65	21	0.00	0	1.0
122.53	125.58	3.05	0.00	0	0.00	0	0.0
125.58	128.43	2.85	0.20	7	0.00	0	1.0
128.43	131.67	3.24	0.00	0	0.00	0	0.0
131.67	134.72	3.05	0.40	13	0.00	0	1.0
134.72	137.77	3.05	0.40	13	0.00	0	1.0
137.77	140.82	3.05	0.50	16	0.00	0	1.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
140.82	144.17	3.35	1.09	33	0.51	15	3.0
144.17	148.44	4.27	3.83	90	3.56	83	4.0
148.44	151.49	3.05	3.06	100	2.46	81	4.0
151.49	154.53	3.04	2.97	98	2.61	86	3.0
154.53	157.58	3.05	3.12	102	2.05	67	3.0
157.58	160.63	3.05	2.79	91	2.28	75	2.0
160.63	163.68	3.05	3.00	98	2.30	75	2.0
163.68	166.73	3.05	1.38	45	0.79	26	2.0
166.73	169.77	3.04	4.40	145	2.87	94	2.0
169.77	172.82	3.05	3.06	100	2.13	70	2.0
172.82	175.87	3.05	3.03	99	1.97	65	3.0
175.87	178.92	3.05	2.96	97	3.03	99	3.0
178.92	181.87	2.95	2.92	99	1.56	53	2.0
181.87	185.01	3.14	3.06	97	2.13	68	3.0
185.01	188.06	3.05	3.01	99	2.44	80	3.0
188.06	191.11	3.05	3.18	104	1.67	55	3.0
191.11	194.16	3.05	3.04	100	2.14	70	3.0
194.16	197.21	3.05	3.18	104	2.12	70	3.0
197.21	200.25	3.04	3.09	102	2.39	79	3.0
200.25	203.30	3.05	3.06	100	2.80	92	3.0
203.30	206.35	3.05	2.95	97	2.28	75	3.0
206.35	209.40	3.05	3.04	100	2.58	85	3.0
209.40	212.45	3.05	2.99	98	2.34	77	3.0
212.45	215.49	3.04	3.09	102	2.48	82	3.0
215.49	218.54	3.05	3.02	99	1.37	45	4.0
218.54	221.59	3.05	2.99	98	1.98	65	3.0
221.59	224.64	3.05	2.98	98	1.53	50	2.0
224.64	227.69	3.05	3.08	101	1.18	39	2.0
227.69	230.73	3.04	3.02	99	2.70	89	3.0
230.73	233.78	3.05	3.06	100	1.43	47	2.0
233.78	236.83	3.05	3.07	101	2.51	82	2.0
236.83	239.88	3.05	3.00	98	2.05	67	3.0
239.88	242.93	3.05	3.02	99	2.13	70	3.0
242.93	245.97	3.04	3.13	103	2.80	92	3.5
245.97	249.02	3.05	3.15	103	2.40	79	3.0
249.02	252.07	3.05	3.07	101	0.62	20	3.5
252.07	255.12	3.05	3.10	102	1.71	56	4.0
255.12	258.17	3.05	3.04	100	1.14	37	4.0
258.17	261.21	3.04	3.30	109	0.89	29	3.5
261.21	264.26	3.05	3.01	99	1.82	60	3.5
264.26	267.31	3.05	3.24	106	1.29	42	3.5
267.31	270.36	3.05	2.87	94	1.10	36	4.0
270.36	273.41	3.05	3.16	104	1.51	50	4.0
273.41	276.45	3.04	3.17	104	1.33	44	4.0
276.45	279.50	3.05	3.11	102	0.75	25	4.0
279.50	282.55	3.05	3.10	102	1.48	49	4.0
282.55	285.60	3.05	3.07	101	1.92	63	4.0
285.60	288.65	3.05	3.04	100	1.19	39	4.0
288.65	291.69	3.04	3.08	101	2.07	68	4.0
291.69	294.74	3.05	3.10	102	1.72	56	4.0
294.74	297.79	3.05	3.04	100	1.06	35	4.0
297.79	300.84	3.05	3.07	101	1.99	65	4.0
300.84	303.89	3.05	3.05	100	1.65	54	4.0
303.89	306.93	3.04	3.12	103	1.42	47	4.0
306.93	309.98	3.05	3.13	103	0.10	3	4.0
309.98	313.03	3.05	2.93	96	1.02	33	4.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
313.03	316.08	3.05	2.99	98	0.54	18	4.0
316.08	319.13	3.05	3.02	99	1.12	37	4.0
319.13	322.17	3.04	3.07	101	0.76	25	4.0
322.17	325.22	3.05	3.00	98	0.36	12	4.0
325.22	328.27	3.05	3.06	100	1.06	35	3.5
328.27	331.32	3.05	3.17	104	1.32	43	3.0
331.32	334.37	3.05	3.15	103	1.65	54	3.5
334.37	337.41	3.04	3.13	103	1.73	57	3.5
337.41	340.46	3.05	3.12	102	1.92	63	3.0
340.46	343.51	3.05	3.06	100	1.59	52	3.5
343.51	346.56	3.05	3.12	102	1.52	50	4.0
346.56	349.61	3.05	3.15	103	2.71	89	3.5
349.61	352.65	3.04	3.17	104	2.61	86	3.5
352.65	355.70	3.05	2.99	98	1.61	53	3.0
355.70	358.75	3.05	3.36	110	0.82	27	3.0
358.75	361.80	3.05	3.04	100	1.56	51	3.5
361.80	364.85	3.05	2.71	89	0.85	28	3.0
364.85	367.89	3.04	2.90	95	1.41	46	3.5
367.89	370.94	3.05	3.30	108	1.79	59	3.0
370.94	373.99	3.05	3.07	101	2.01	66	3.5
373.99	380.09	6.10	5.01	82	1.93	32	3.5
380.09	386.18	6.09	6.06	100	4.55	75	3.0
386.18	390.75	4.57	5.19	114	2.70	59	3.5
390.75	395.94	5.19	5.34	103	4.07	78	3.5
395.94	399.90	3.96	3.02	76	1.56	39	4.0
399.90	402.64	2.74	3.03	111	1.02	37	3.5
402.64	405.38	2.74	3.46	126	2.09	76	4.0
405.38	408.43	3.05	3.01	99	2.08	68	4.0
408.43	411.78	3.35	3.34	100	1.25	37	4.0
411.78	414.83	3.05	3.09	101	1.39	46	4.0
414.83	418.19	3.36	3.28	98	2.15	64	4.5
418.19	422.15	3.96	3.41	86	1.64	41	4.5
422.15	427.02	4.87	5.17	106	1.96	40	4.5
427.02	433.12	6.10	4.28	70	1.46	24	4.5
433.12	436.47	3.35	3.46	103	1.23	37	4.0
436.47	438.00	1.53	1.48	97	0.77	50	3.5
438.00	441.05	3.05	3.01	99	2.50	82	3.5
441.05	444.09	3.04	3.02	99	2.04	67	3.5
444.09	447.14	3.05	2.97	97	2.55	84	4.0
447.14	450.19	3.05	2.87	94	1.56	51	4.0
450.19	453.24	3.05	3.07	101	1.98	65	4.5
453.24	456.29	3.05	2.71	89	1.24	41	4.5
456.29	459.33	3.04	3.03	100	1.45	48	4.5
459.33	462.38	3.05	3.13	103	2.44	80	4.5
462.38	465.43	3.05	2.86	94	1.19	39	4.5
465.43	468.48	3.05	2.82	92	1.45	48	4.5
468.48	471.53	3.05	3.10	102	2.23	73	4.0
471.53	474.57	3.04	2.94	97	1.88	62	4.0
474.57	477.62	3.05	3.03	99	1.40	46	4.0
477.62	480.67	3.05	2.98	98	0.70	23	4.0
480.67	486.77	6.10	6.10	100	4.83	79	4.5
486.77	489.81	3.04	2.95	97	1.77	58	4.5
489.81	492.86	3.05	3.11	102	1.67	55	4.0
492.86	494.08	1.22	1.25	102	0.87	71	3.5
494.08	497.74	3.66	3.58	98	1.24	34	4.0
497.74	503.83	6.09	6.39	105	3.43	56	4.0

Date:Sept-09-02

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-39A

*** NOTE: Hole abandoned at 17.37 metres

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	6.10	6.10	0.00	0.0	0.00	0.0	
6.10	12.80	6.70	0.00	0.0	0.00	0.0	
12.80	15.85	3.05	0.50	16.4	0.00	0.0	
15.85	17.37	1.52	0.73	48.0	0.23	31.5	

Date: October 3, 2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-40

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.66	3.66	0.20	5.5	0.00	0.0	1
3.66	5.18	1.52	0.75	49.3	0.00	0.0	1
5.18	6.71	1.53	1.17	76.5	0.00	0.0	1
6.71	8.23	1.52	1.65	108.6	0.37	24.3	1
8.23	9.75	1.52	1.58	103.9	0.39	25.7	2
9.75	11.28	1.53	1.67	109.2	0.81	52.9	3
11.28	12.80	1.52	1.58	103.9	1.06	69.7	3
12.80	14.33	1.53	1.50	98.0	1.01	66.0	3
14.33	15.85	1.52	1.52	100.0	0.73	48.0	3
15.85	17.37	1.52	1.53	100.7	0.98	64.5	4
17.37	18.90	1.53	1.60	104.6	0.89	58.2	4
18.90	20.42	1.52	1.55	102.0	1.07	70.4	4
20.42	21.95	1.53	1.60	104.6	0.90	58.8	4
21.95	23.47	1.52	1.62	106.6	0.68	44.7	3
23.47	24.99	1.52	1.50	98.7	0.57	37.5	4
24.99	26.52	1.53	1.53	100.0	1.19	77.8	4
26.52	28.04	1.52	1.46	96.1	1.20	78.9	4
28.04	29.57	1.53	1.64	107.2	1.19	77.8	5
29.57	30.48	0.91	1.07	117.6	0.75	82.4	4
30.48	32.61	2.13	1.90	89.2	1.13	53.1	4
32.61	35.66	3.05	3.17	103.9	1.90	62.3	4
35.66	38.71	3.05	3.08	101.0	1.36	44.6	3
38.71	41.76	3.05	3.15	103.3	1.57	51.5	2
41.76	44.81	3.05	2.82	92.5	1.20	39.3	3
44.81	47.85	3.04	2.87	94.4	2.15	70.7	3
47.85	50.90	3.05	2.99	98.0	1.23	40.3	4
50.90	53.95	3.05	2.98	97.7	2.24	73.4	3
53.95	57.00	3.05	2.93	96.1	1.63	53.4	3
57.00	60.05	3.05	3.06	100.3	0.89	29.2	4
60.05	63.09	3.04	3.09	101.6	1.90	62.5	3
63.09	66.14	3.05	3.09	101.3	1.34	43.9	4
66.14	69.19	3.05	3.00	98.4	1.95	63.9	3
69.19	72.24	3.05	3.40	111.5	2.14	70.2	3
72.24	75.29	3.05	3.10	101.6	2.12	69.5	4
75.29	78.33	3.04	3.12	102.6	2.29	75.3	4
78.33	81.38	3.05	3.11	102.0	2.35	77.0	4
81.38	84.43	3.05	3.12	102.3	1.50	49.2	4.5
84.43	87.48	3.05	3.09	101.3	1.77	58.0	5
87.48	90.53	3.05	3.29	107.9	1.35	44.3	4
90.53	93.57	3.04	3.00	98.7	2.15	70.7	4
93.57	96.62	3.05	3.15	103.3	1.85	60.7	4
96.62	99.67	3.05	3.07	100.7	2.18	71.5	4
99.67	102.72	3.05	3.02	99.0	1.56	51.1	4.5
102.72	105.77	3.05	2.97	97.4	2.39	78.4	4
105.77	108.81	3.04	2.78	91.4	1.79	58.9	4.5
108.81	111.86	3.05	3.11	102.0	2.85	93.4	4.5
111.86	114.91	3.05	3.08	101.0	2.88	94.4	4.5
114.91	117.96	3.05	3.01	98.7	2.49	81.6	4.5
117.96	121.01	3.05	3.03	99.3	2.55	83.6	4.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
121.01	124.05	3.04	3.03	99.7	2.32	76.3	5
124.05	127.10	3.05	3.04	99.7	2.07	67.9	5
127.10	130.15	3.05	2.96	97.0	2.36	77.4	4.5
130.15	133.20	3.05	3.05	100.0	1.74	57.0	4.5
133.20	136.25	3.05	2.93	96.1	1.71	56.1	4
136.25	139.29	3.04	3.00	98.7	1.36	44.7	4.5
139.29	142.34	3.05	2.98	97.7	1.86	61.0	5
142.34	145.39	3.05	2.99	98.0	2.15	70.5	4.5
145.39	148.44	3.05	3.08	101.0	1.82	59.7	4.5
148.44	151.49	3.05	3.07	100.7	1.98	64.9	4.5
151.49	154.53	3.04	3.00	98.7	2.17	71.4	4
154.53	157.58	3.05	3.12	102.3	1.85	60.7	4.5
157.58	160.63	3.05	3.04	99.7	2.45	80.3	4
160.63	163.68	3.05	3.14	103.0	2.25	73.8	4.5
163.68	166.73	3.05	2.98	97.7	2.24	73.4	4.5
166.73	169.77	3.04	3.18	104.6	1.95	64.1	4.5
169.77	172.82	3.05	3.08	101.0	1.90	62.3	4.5
172.82	175.87	3.05	3.09	101.3	2.59	84.9	3
175.87	178.92	3.05	3.03	99.3	2.80	91.8	4
178.92	181.97	3.05	3.10	101.6	2.41	79.0	3
181.97	185.01	3.04	2.92	96.1	2.06	67.8	3
185.01	188.06	3.05	2.70	88.5	2.07	67.9	4
188.06	191.11	3.05	2.76	90.5	1.44	47.2	4.5
191.11	194.16	3.05	3.15	103.3	1.96	64.3	4.5
194.16	197.21	3.05	3.10	101.6	1.84	60.3	4.5
197.21	200.25	3.04	3.00	98.7	2.06	67.8	4.5
200.25	203.08	2.83	2.97	104.9	2.13	75.3	4
203.08	206.35	3.27	3.03	92.7	1.95	59.6	4
206.35	209.40	3.05	2.93	96.1	1.47	48.2	4.5
209.40	212.45	3.05	2.86	93.8	1.97	64.6	4.5
212.45	215.49	3.04	2.96	97.4	2.18	71.7	4.5
215.49	218.54	3.05	2.92	95.7	1.59	52.1	4
218.54	221.59	3.05	2.80	91.8	1.76	57.7	4.5
221.59	224.64	3.05	2.99	98.0	1.52	49.8	4.5
224.64	227.69	3.05	2.91	95.4	1.42	46.6	3.5
227.69	230.73	3.04	2.98	98.0	1.78	58.6	3.5
230.73	233.78	3.05		0.0		0.0	
233.78	236.83	3.05	3.01	98.7	1.57	51.5	3
236.83	239.88	3.05	2.98	97.7	1.71	56.1	3
239.88	242.93	3.05	2.93	96.1	1.92	63.0	2.5
242.93	244.14	1.21	1.46	120.7	0.41	33.9	3
244.14	249.02	4.88	4.84	99.2	2.42	49.6	3.5
249.02	252.07	3.05	2.52	82.6	0.80	26.2	3
252.07	258.17	6.10	6.07	99.5	3.55	58.2	3
258.17	264.26	6.09	5.29	86.9	2.74	45.0	3.5
264.26	270.36	6.10	5.97	97.9	3.36	55.1	3
270.36	276.45	6.09	6.03	99.0	3.44	56.5	3.5
276.45	282.55	6.10	5.99	98.2	3.22	52.8	3
282.55	288.65	6.10	6.02	98.7	2.90	47.5	3.5
288.65	294.74	6.09	5.91	97.0	3.06	50.2	3.5
294.74	300.84	6.10	5.85	95.9	3.06	50.2	3
300.84	306.93	6.09	6.02	98.9	4.08	67.0	3
306.93	313.03	6.10	5.71	93.6	4.60	75.4	4
313.03	319.13	6.10	5.94	97.4	4.88	80.0	4
319.13	325.22	6.09	5.82	95.6	4.84	79.5	4
325.22	331.32	6.10	5.89	96.6	4.16	68.2	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
331.32	337.41	6.09	5.82	95.6	5.14	84.4	3.5
337.41	343.51	6.10	5.98	98.0	3.08	50.5	4
343.51	349.61	6.10	5.76	94.4	3.98	65.2	4
349.61	355.70	6.09	5.71	93.8	3.73	61.2	4
355.70	361.80	6.10	5.90	96.7	4.29	70.3	3.5
361.80	367.89	6.09	5.06	83.1	2.84	46.6	3
367.89	373.99	6.10	5.82	95.4	4.17	68.4	4
373.99	380.09	6.10	6.03	98.9	4.04	66.2	4
380.09	386.18	6.09	5.82	95.6	3.65	59.9	4
386.18	392.28	6.10	5.69	93.3	3.62	59.3	4
392.28	398.37	6.09	5.74	94.3	3.20	52.5	3
398.37	404.47	6.10	6.37	104.4	4.00	65.6	3
404.47	410.57	6.10	6.00	98.4	4.16	68.2	3
410.57	416.66	6.09	5.74	94.3	3.63	59.6	4
416.66	422.76	6.10	6.06	99.3	4.56	74.8	4
422.76	428.85	6.09	5.88	96.6	4.57	75.0	3.5
428.85	434.95	6.10	6.03	98.9	4.90	80.3	3
434.95	441.05	6.10	6.05	99.2	4.60	75.4	3.5
441.05	447.14	6.09	5.97	98.0	3.31	54.4	3
447.14	453.24	6.10	5.90	96.7	4.16	68.2	3
453.24	459.33	6.09	6.01	98.7	4.19	68.8	3
459.33	465.43	6.10	5.85	95.9	4.61	75.6	4
465.43	471.53	6.10	5.99	98.2	4.35	71.3	3
471.53	477.62	6.09	5.86	96.2	4.31	70.8	4
477.62	483.72	6.10	5.69	93.3	3.59	58.9	3.5
483.72	489.81	6.09	5.77	94.7	4.49	73.7	3.5
489.81	495.91	6.10	5.85	95.9	3.71	60.8	3
495.91	502.01	6.10	5.81	95.2	2.69	44.1	3
502.01	508.10	6.09	6.03	99.0	3.93	64.5	3
508.10	514.20	6.10	5.72	93.8	3.59	58.9	3.5
514.20	520.29	6.09	6.21	102.0	5.44	89.3	3.5
520.29	526.39	6.10	5.88	96.4	4.36	71.5	3.5
526.39	532.49	6.10	5.66	92.8	3.36	55.1	3.5
532.49	538.58	6.09	5.97	98.0	4.09	67.2	3
538.58	544.68	6.10	5.89	96.6	4.42	72.5	3.5
544.68	550.77	6.09	5.87	96.4	5.04	82.8	3.5
550.77	556.87	6.10	5.81	95.2	4.71	77.2	3.5
556.87	562.97	6.10	5.97	97.9	4.12	67.5	4
562.97	569.07	6.10	5.94	97.4	3.66	60.0	3
569.07	575.16	6.09	5.74	94.3	3.29	54.0	3.5
575.16	581.25	6.09	6.33	103.9	4.12	67.7	3.5
581.25	587.35	6.10	5.76	94.4	4.04	66.2	3.5
587.35	593.45	6.10	5.77	94.6	4.38	71.8	3.5
593.45	599.54	6.09	6.10	100.2	5.00	82.1	4
599.54	605.64	6.10	5.90	96.7	4.01	65.7	3
605.64	611.73	6.09	6.06	99.5	4.43	72.7	4
611.73	617.83	6.10	6.16	101.0	4.64	76.1	4
617.83	623.93	6.10	5.90	96.7	3.13	51.3	4
623.93	630.02	6.09	6.14	100.8	4.25	69.8	4
630.02	636.12	6.10	5.95	97.5	3.45	56.6	4
636.12	642.21	6.09	5.80	95.2	4.18	68.6	4
642.21	648.31	6.10	6.04	99.0	4.55	74.6	4
648.31	654.41	6.10	5.70	93.4	3.73	61.1	4
654.41	660.59	6.18	6.12	99.0	4.01	64.9	4
660.59	666.60	6.01	5.81	96.7	4.03	67.1	4
666.60	672.69	6.09	5.95	97.7	4.00	65.7	4

Date: October 3, 2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-41

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.66	3.66	0.28	51	0.00	0	4.0
3.66	6.71	3.05	0.33	11	0.00	0	3.0
6.71	9.75	3.04	1.56	51	0.11	4	3.0
9.75	12.80	3.05	1.50	49	0.53	17	3.0
12.80	15.85	3.05	1.88	62	1.40	46	3.0
15.85	17.73	1.88	0.99	53	0.37	20	3.0
17.73	18.90	1.17	1.32	113	0.52	44	3.0
18.90	20.42	1.52	1.39	91	0.67	44	3.0
20.42	21.95	1.53	1.34	88	0.54	35	3.0
21.95	23.47	1.52	1.38	91	0.87	57	3.0
23.47	24.99	1.52	1.57	103	0.80	53	3.0
24.99	26.52	1.53	1.25	82	0.55	36	3.5
26.52	28.04	1.52	1.47	97	0.69	45	3.0
28.04	29.57	1.53	1.35	88	0.82	54	4.5
29.57	30.48	0.91	1.28	141	0.98	108	4.0
30.48	33.53	3.05	2.70	89	0.95	31	4.0
33.53	36.58	3.05	2.99	98	1.40	46	3.5
36.58	39.62	3.04	2.84	93	1.82	60	3.5
39.62	42.67	3.05	2.39	78	1.21	40	4.0
42.67	45.72	3.05	2.79	91	1.27	42	4.0
45.72	48.77	3.05	2.57	84	1.07	35	3.5
48.77	51.82	3.05	2.57	84	0.82	27	4.5
51.82	54.86	3.04	2.54	84	0.80	26	3.5
54.86	57.91	3.05	2.81	92	1.21	40	4.0
57.91	60.96	3.05	2.53	83	1.00	33	3.5
60.96	64.01	3.05	2.78	91	0.78	26	4.0
64.01	67.06	3.05	2.47	81	0.79	26	3.5
67.06	70.10	3.04	2.72	89	0.95	31	3.5
70.10	73.15	3.05	2.95	97	1.46	48	3.5
73.15	76.20	3.05	2.78	91	2.13	70	3.5
76.20	79.25	3.05	2.82	92	1.06	35	3.5
79.25	82.30	3.05	2.89	95	1.19	39	3.5
82.30	85.34	3.04	2.86	94	1.34	44	3.5
85.34	88.39	3.05	2.89	95	2.18	71	4.0
88.39	91.44	3.05	2.77	91	1.19	39	3.5
91.44	94.49	3.05	2.90	95	1.47	48	4.0
94.49	97.54	3.05	2.93	96	1.52	50	4.0
97.54	100.58	3.04	2.75	90	1.73	57	3.5
100.58	103.63	3.05	3.03	99	2.38	78	3.5
103.63	106.68	3.05	2.95	97	1.81	59	3.5
106.68	109.73	3.05	2.94	96	2.31	76	3.5
109.73	112.78	3.05	2.77	91	1.67	55	4.0
112.78	115.82	3.04	2.98	98	2.20	72	3.5
115.82	118.87	3.05	2.85	93	1.79	59	3.5
118.87	121.92	3.05	2.96	97	1.42	47	3.5
121.92	124.97	3.05	2.92	96	1.15	38	4.0
124.97	128.02	3.05	2.93	96	1.72	56	3.0
128.02	131.06	3.04	2.89	95	2.10	69	3.0
131.06	134.11	3.05	3.03	99	2.03	67	3.0

Interval (m)		Recovery			RQD		HARDNESS
134.11	137.16	3.05	2.83	93	1.07	35	3.0
137.16	140.21	3.05	2.93	96	2.07	68	3.0
140.21	143.26	3.05	2.81	92	2.15	70	2.0
143.26	146.30	3.04	2.97	98	2.16	71	2.5
146.30	149.35	3.05	2.91	95	2.12	70	2.5
149.35	152.40	3.05	2.86	94	2.78	91	2.5
152.40	155.45	3.05	2.74	90	1.01	33	2.5
155.45	158.50	3.05	2.96	97	2.48	81	3.0
158.50	161.54	3.04	2.85	94	2.58	85	3.5
161.54	164.59	3.05	3.05	100	2.37	78	3.5
164.59	167.64	3.05	2.79	91	1.91	63	3.5
167.64	170.69	3.05	3.00	98	2.59	85	3.5
170.69	173.74	3.05	2.85	93	1.97	65	3.0
173.74	176.78	3.04	3.04	100	2.17	71	4.0
176.78	179.83	3.05	2.89	95	2.19	72	4.0
179.83	182.88	3.05	2.85	93	1.81	59	4.0
182.88	185.93	3.05	2.63	86	1.19	39	4.0
185.93	188.98	3.05	2.77	91	1.96	64	4.0
188.98	192.02	3.04	2.80	92	0.86	28	4.0
192.02	195.07	3.05	2.66	87	1.24	41	3.0
195.07	198.12	3.05	2.86	94	1.98	65	3.0
198.12	201.17	3.05	2.69	88	0.72	24	3.0
201.17	204.22	3.05	2.84	93	0.79	26	3.0
204.22	207.26	3.04	2.20	72	1.46	48	3.5
207.26	210.31	3.05	2.10	69	1.19	39	3.0
210.31	213.36	3.05	2.48	81	0.49	16	3.0
213.36	216.41	3.05	2.95	97	2.17	71	3.0
216.41	219.46	3.05	2.98	98	2.09	69	3.5
219.46	222.50	3.04	2.92	96	2.24	74	3.5
222.50	225.55	3.05	2.95	97	1.91	63	3.0
225.55	228.60	3.05	2.88	94	1.39	46	3.0
228.60	231.65	3.05	2.99	98	2.24	73	3.5
231.65	234.70	3.05	2.74	90	0.82	27	3.0
234.70	237.74	3.04	2.80	92	1.89	62	3.0
237.74	240.79	3.05	2.86	94	1.29	42	3.5
240.79	243.84	3.05	2.83	93	0.69	23	3.0
243.84	246.89	3.05	2.90	95	1.98	65	3.0
246.89	249.94	3.05	2.88	94	0.86	28	3.5
249.94	256.03	6.09	2.80	46	1.71	28	3.5
256.03	259.08	3.05	2.70	89	2.19	72	3.5
259.08	262.13	3.05	2.88	94	1.67	55	3.5
262.13	265.18	3.05	2.92	96	2.18	71	4.0
265.18	268.22	3.04	2.88	95	2.30	76	4.0
268.22	271.27	3.05	2.99	98	2.55	84	3.0
271.27	274.32	3.05	2.90	95	2.03	67	3.5
274.32	277.37	3.05	2.99	98	2.05	67	3.5
277.37	280.42	3.05	2.92	96	2.19	72	3.5
280.42	283.46	3.04	2.96	97	2.40	79	3.5
283.46	286.51	3.05	2.81	92	1.79	59	3.5
286.51	289.56	3.05	3.05	100	2.38	78	3.5
289.56	292.61	3.05	2.88	94	2.10	69	3.0
292.61	295.66	3.05	2.89	95	1.73	57	3.5
295.66	298.70	3.04	2.94	97	1.44	47	3.0
298.70	301.75	3.05	2.87	94	2.08	68	3.0
301.75	304.80	3.05	2.82	92	1.90	62	3.0
304.80	307.85	3.05	2.70	89	1.56	51	3.0

Interval (m)			Recovery		RQD		HARDNESS
307.85	310.90	3.05	2.91	95	1.17	38	3.5
310.90	313.94	3.04	3.01	99	2.42	80	4.0
313.94	316.99	3.05	3.03	99	1.79	59	3.5
316.99	320.04	3.05	2.96	97	2.13	70	3.0
320.04	323.09	3.05	3.05	100	2.63	86	4.0
323.09	326.14	3.05	2.95	97	2.24	73	4.0
326.14	329.18	3.04	3.06	101	2.48	82	4.0
329.18	332.23	3.05	2.60	85	1.95	64	4.0
332.23	335.28	3.05	2.98	98	2.20	72	4.0
335.28	338.33	3.05	2.58	85	1.61	53	4.0
338.33	341.38	3.05	2.69	88	0.40	13	4.0
341.38	344.42	3.04	2.58	85	0.73	24	4.0
344.42	347.47	3.05	2.94	96	0.89	29	4.0
347.47	350.52	3.05	3.14	103	1.72	56	4.0
350.52	353.57	3.05	2.88	94	1.54	50	4.0
353.57	356.62	3.05	2.85	93	1.72	56	4.0
356.62	359.66	3.04	2.94	97	2.15	71	4.0
359.66	362.71	3.05	3.04	100	2.37	78	4.0
362.71	365.76	3.05	2.99	98	2.79	91	3.5
365.76	368.81	3.05	2.95	97	2.39	78	4.0
368.81	371.86	3.05	3.02	99	2.00	66	3.5
371.86	374.90	3.04	3.09	102	2.69	88	4.0
374.90	377.95	3.05	3.13	103	2.30	75	3.0
377.95	381.00	3.05	2.98	98	2.62	86	3.0
381.00	384.05	3.05	3.13	103	2.13	70	3.5
384.05	387.10	3.05	2.92	96	2.33	76	4.0
387.10	390.14	3.04	2.86	94	2.02	66	4.0
390.14	393.19	3.05	3.04	100	2.05	67	4.0
393.19	396.24	3.05	2.91	95	1.83	60	3.5
396.24	399.29	3.05	3.05	100	2.19	72	4.0
399.29	402.33	3.04	3.02	99	2.20	72	4.0
402.33	405.38	3.05	3.00	98	2.39	78	4.0
405.38	408.43	3.05	3.02	99	2.38	78	4.0
408.43	411.48	3.05	3.03	99	2.48	81	4.0
411.48	414.53	3.05	3.04	100	1.55	51	3.5
414.53	417.58	3.05	3.07	101	2.02	66	4.0
417.58	420.62	3.04	3.03	100	1.94	64	4.0
420.62	423.67	3.05	2.92	96	1.74	57	3.5
423.67	426.72	3.05	3.02	99	1.53	50	3.5
426.72	429.77	3.05	2.98	98	2.43	80	3.5
429.77	432.82	3.05	3.04	100	2.54	83	3.5
432.82	435.86	3.04	3.00	99	1.89	62	4.0
435.86	438.91	3.05	3.06	100	2.46	81	3.5
438.91	441.96	3.05	3.05	100	1.54	50	4.0
441.96	445.01	3.05	2.96	97	1.86	61	4.0
445.01	448.06	3.05	3.02	99	2.01	66	4.0
448.06	451.10	3.04	2.96	97	2.70	89	4.0
451.10	454.15	3.05	3.13	103	2.65	87	4.0
454.15	457.20	3.05	2.99	98	2.04	67	4.0
457.20	460.25	3.05	2.95	97	2.80	92	4.0
460.25	463.30	3.05	2.97	97	2.64	87	4.0
463.30	466.34	3.04	3.00	99	2.24	74	3.5
466.34	469.39	3.05	2.88	94	2.06	68	3.5
469.39	472.44	3.05	3.00	98	2.53	83	4.0
472.44	475.49	3.05	3.07	101	2.65	87	4.0
475.49	478.54	3.05	2.99	98	2.12	70	4.0

Date: 4-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-42

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	9.75	9.75	Casing		0.00	0	5.5
9.75	12.19	2.44	0.00	0	0.00	0	5.5
12.19	15.24	3.05	0.00	0	0.00	0	5.5
15.24	18.29	3.05	0.00	0	0.00	0	5.5
18.29	21.34	3.05	0.00	0	0.00	0	5.5
21.34	24.38	3.04	0.00	0	0.00	0	5.5
24.38	27.43	3.05	0.00	0	0.00	0	5.5
27.43	30.48	3.05	0.00	0	0.00	0	5.5
30.48	33.53	3.05	0.00	0	0.00	0	5.5
33.53	36.58	3.05	0.00	0	0.00	0	5.5
36.58	39.62	3.04	0.08	3	0.00	0	5.5
39.62	42.67	3.05	0.00	0	0.00	0	5.5
42.67	45.72	3.05	0.00	0	0.00	0	5.5
45.72	48.77	3.05	0.00	0	0.00	0	5.5
48.77	51.82	3.05	0.00	0	0.00	0	5.5
51.82	54.86	3.04	0.00	0	0.00	0	5.5
54.86	57.91	3.05	0.07	2	0.00	0	5.5
57.91	60.96	3.05	0.05	2	0.00	0	5.5
60.96	64.01	3.05	0.00	0	0.00	0	5.5
64.01	67.06	3.05	0.00	0	0.00	0	5.5
67.06	70.10	3.04	1.20	39	0.00	0	5.5
70.10	73.15	3.05	0.97	32	0.10	3	5.0
73.15	76.20	3.05	0.20	7	0.00	0	5.0
76.20	79.25	3.05	0.95	31	0.00	0	5.0
79.25	82.30	3.05	1.53	50	0.72	24	4.5
82.30	85.34	3.04	3.03	100	2.03	67	4.5
85.34	88.39	3.05	2.92	96	2.50	82	4.5
88.39	91.44	3.05	2.99	98	2.67	88	4.5
91.44	94.49	3.05	2.97	97	1.69	55	4.5
94.49	96.93	2.44	2.51	103	2.19	90	4.0
96.93	97.54	0.61	0.52	85	0.52	85	4.5
97.54	99.67	2.13	2.05	96	1.60	75	4.5
99.67	104.24	4.57	4.27	93	3.18	70	4.0
104.24	109.12	4.88	4.94	101	2.88	59	4.0
109.12	114.00	4.88	4.84	99	3.91	80	4.0
114.00	116.43	2.43	2.42	100	2.16	89	4.0
116.43	121.01	4.58	4.74	103	2.96	65	4.5
121.01	125.58	4.57	4.12	90	2.02	44	4.5
125.58	130.15	4.57	4.94	108	3.35	73	4.5
130.15	134.72	4.57	4.27	93	2.63	58	4.5
134.72	137.77	3.05	2.93	96	1.93	63	4.0
137.77	142.34	4.57	4.48	98	3.34	73	4.0
142.34	146.91	4.57	4.72	103	4.01	88	4.0
146.91	151.49	4.58	4.65	102	3.40	74	4.0
151.49	156.06	4.57	4.23	93	3.64	80	4.0
156.06	160.63	4.57	4.57	100	2.79	61	4.0
160.63	165.20	4.57	4.26	93	3.71	81	4.0
165.20	168.86	3.66	2.89	79	1.15	31	3.0
168.86	171.60	2.74	3.08	112	1.20	44	3.5
171.60	174.65	3.05	3.09	101	2.65	87	4.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
174.65	179.22	4.57	4.35	95	2.62	57	3.0
179.22	184.10	4.88	4.72	97	1.49	31	2.0
184.10	188.98	4.88	4.84	99	2.45	50	2.5
188.98	193.85	4.87	4.55	93	1.30	27	3.0
193.85	198.73	4.88	4.81	99	1.91	39	3.0
198.73	203.61	4.88	4.46	91	2.38	49	3.0
203.61	208.48	4.87	4.13	85	2.23	46	3.0
208.48	213.36	4.88	4.66	95	1.86	38	3.5
213.36	216.91	3.55	2.86	81	1.35	38	3.5
216.91	221.28	4.37	4.92	113	2.37	54	3.0
221.28	226.16	4.88	4.63	95	2.05	42	3.0
226.16	230.73	4.57	4.28	94	1.87	41	3.0
230.73	235.31	4.58	4.63	101	2.84	62	3.0
235.31	239.88	4.57	4.47	98	3.72	81	4.0
239.88	244.05	4.17	4.20	101	3.18	76	4.0
244.05	253.59	9.54	3.18	33	2.44	26	4.0
253.59	256.64	3.05	2.65	87	1.36	45	4.0
256.64	259.69	3.05	2.64	87	1.59	52	3.5
259.69	262.74	3.05	2.59	85	0.75	25	3.0
262.74	267.31	4.57	4.67	102	2.29	50	4.5
267.31	271.88	4.57	4.29	94	2.21	48	4.5
271.88	276.76	4.88	4.74	97	1.97	40	4.5
276.76	281.64	4.88	4.66	95	3.08	63	4.0
281.64	286.51	4.87	4.80	99	3.14	64	4.5
286.51	290.78	4.27	3.70	87	1.33	31	4.0
290.78	295.66	4.88	4.76	98	1.82	37	4.0
295.66	300.53	4.87	4.77	98	1.22	25	4.5
300.53	305.71	5.18	4.73	91	3.14	61	4.5
305.71	310.29	4.58	4.77	104	3.17	69	4.5
310.29	312.12	1.83	1.74	95	0.88	48	4.0
312.12	316.99	4.87	4.50	92	0.55	11	3.5
316.99	321.87	4.88	4.27	88	0.71	15	3.5
321.87	326.75	4.88	4.72	97	2.60	53	5.0
326.75	331.82	5.07	4.37	86	0.37	7	5.0
331.82	335.89	4.07	4.04	99	1.42	35	5.0
335.89	340.46	4.57	4.64	102	1.72	38	3.5
340.46	345.03	4.57	4.24	93	1.66	36	3.5
345.03	349.61	4.58	4.61	101	0.97	21	4.0
349.61	354.18	4.57	4.20	92	0.97	21	4.0
354.18	359.05	4.87	4.71	97	1.01	21	4.5
359.05	363.93	4.88	4.84	99	0.75	15	4.0
363.93	368.81	4.88	4.76	98	1.13	23	4.5
368.81	373.68	4.87	4.78	98	1.18	24	4.5
373.68	378.56	4.88	4.84	99	1.09	22	4.5
378.56	383.44	4.88	4.90	100	0.67	14	4.0
383.44	388.32	4.88	4.87	100	2.64	54	5.0
388.32	393.19	4.87	4.98	102	0.65	13	4.0
393.19	396.85	3.66	3.78	103	1.80	49	4.0
396.85	400.20	3.35	3.96	118	0.00	0	4.0
400.20	404.77	4.57	0.91	20	0.00	0	4.0
404.77	409.65	4.88	3.46	71	2.22	45	4.0
409.65	414.53	4.88	5.21	107	1.78	36	4.0
414.53	419.40	4.87	5.93	122	0.89	18	3.5
419.40	421.23	1.83	1.34	73	1.12	61	5.0
421.23	425.50	4.27	4.40	103	2.17	51	4.5
425.50	430.68	5.18	5.07	98	1.56	30	4.5

Date: September 28, 2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-43

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
2.13	3.66	1.53	1.41	92.16	0.00	0.00	3
3.66	4.57	0.91	1.22	134.07	0.12	13.19	3
4.57	5.79	1.22	0.39	31.97	0.00	0.00	3.5
5.79	6.71	0.92	1.13	122.83	0.11	11.96	3
6.71	8.23	1.52	1.41	92.76	0.56	36.84	4
8.23	9.75	1.52	1.44	94.74	0.97	63.82	4
9.75	11.28	1.53	1.62	105.88	0.64	41.83	3.5
11.28	12.80	1.52	1.51	99.34	0.57	37.50	4
12.80	14.33	1.53	1.64	107.19	0.53	34.64	4.5
14.33	15.85	1.52	1.50	98.68	0.98	64.47	5
15.85	17.37	1.52	1.46	96.05	1.28	84.21	5
17.37	18.90	1.53	1.60	104.58	1.35	88.24	4.5
18.90	20.42	1.52	1.29	84.87	0.75	49.34	4.5
20.42	21.95	1.53	1.01	66.01	0.55	35.95	5
21.95	23.47	1.52	1.41	92.76	0.62	40.79	5
23.47	24.38	0.91	0.85	93.41	0.73	80.22	5
24.38	26.52	2.14	1.95	91.12	0.90	42.06	4.5
26.52	29.57	3.05	2.78	91.15	1.61	52.79	5.5
29.57	32.61	3.04	3.00	98.68	1.65	54.28	5
32.61	35.66	3.05	2.96	97.05	2.04	66.89	4.5
35.66	38.71	3.05	3.02	99.02	2.67	87.54	4.5
38.71	41.76	3.05	2.85	93.44	2.37	77.70	4.5
41.76	44.81	3.05	2.89	94.75	2.66	87.21	6
44.81	47.85	3.04	3.02	99.34	2.74	90.13	6
47.85	50.90	3.05	2.93	96.07	2.54	83.28	6
50.90	53.95	3.05	2.95	96.72	2.64	86.56	5.5
53.95	57.00	3.05	2.98	97.70	2.35	77.05	5
57.00	60.05	3.05	3.03	99.34	2.11	69.18	4.5
60.05	63.09	3.04	3.04	100.00	2.32	76.32	4.5
63.09	66.14	3.05	2.96	97.05	2.28	74.75	4
66.14	69.19	3.05	3.00	98.36	2.60	85.25	4.5
69.19	72.24	3.05	3.02	99.02	2.62	85.90	4.5
72.24	75.29	3.05	2.98	97.70	2.46	80.66	4.5
75.29	78.33	3.04	3.03	99.67	2.69	88.49	5
78.33	81.38	3.05	2.88	94.43	2.19	71.80	4.5
81.38	84.43	3.05	2.83	92.79	2.16	70.82	5
84.43	87.43	3.00	2.90	96.67	2.35	78.33	5
87.48	90.53	3.05	2.83	92.79	2.51	82.30	5
90.53	93.57	3.04	3.02	99.34	2.69	88.49	5
93.57	96.62	3.05	3.00	98.36	2.67	87.54	4.5
96.62	99.67	3.05	2.92	95.74	2.44	80.00	4.5
99.67	102.72	3.05	2.95	96.72	2.15	70.49	5
102.72	105.77	3.05	2.89	94.75	2.56	83.93	5
105.77	108.81	3.04	2.98	98.03	2.75	90.46	5.5
108.81	110.95	2.14	2.10	98.13	1.15	53.74	4.5
110.95	117.04	6.09	5.55	91.13	4.67	76.68	4.5
117.04	120.09	3.05	2.82	92.46	2.38	78.03	5
120.09	123.44	3.35	1.90	56.72	2.37	70.75	5
123.44	126.49	3.05	3.01	98.69	3.00	98.36	5.5
126.49	129.84	3.35	3.17	94.63	2.67	79.70	5

Interval (m)		Recovery			RQD		HARDNESS
129.84	132.89	3.05	3.03	99.34	2.79	91.48	5.5
132.89	136.25	3.36	3.19	94.94	2.32	69.05	5
136.25	142.34	6.09	5.79	95.07	5.26	86.37	5
142.34	148.44	6.10	6.07	99.51	5.24	85.90	4.5
148.44	153.62	5.18	5.07	97.88	3.84	74.13	5
153.62	156.67	3.05	2.87	94.10	2.54	83.28	5
156.67	160.02	3.35	3.14	93.73	2.65	79.10	4.5
160.02	163.07	3.05	2.96	97.05	2.41	79.02	4
163.07	166.42	3.35	3.29	98.21	2.61	77.91	4
166.42	169.47	3.05	2.75	90.16	1.66	54.43	4.5
169.47	171.60	2.13	2.15	100.94	1.58	74.18	4
171.60	175.89	4.29	3.65	85.08	2.48	57.81	4.5
175.89	181.97	6.08	5.66	93.09	4.59	75.49	5.5
181.97	188.06	6.09	6.21	101.97	3.30	54.19	5
188.06	194.16	6.10	5.89	96.56	3.24	53.11	5.5
194.16	200.25	6.09	5.80	95.24	3.71	60.92	5
200.25	206.35	6.10	5.98	98.03	2.92	47.87	5
206.35	212.45	6.10	5.75	94.26	3.86	63.28	4.5
212.45	218.54	6.09	5.77	94.75	3.96	65.02	4.5
218.54	224.64	6.10	5.83	95.57	1.99	32.62	4.5
224.64	230.73	6.09	5.90	96.88	4.12	67.65	5
230.73	236.83	6.10	5.67	92.95	2.47	40.49	5.5
236.83	242.93	6.10	5.88	96.39	2.90	47.54	5.5
242.93	249.02	6.09	5.75	94.42	4.40	72.25	5
249.02	255.12	6.10	5.55	90.98	4.44	72.79	5
255.12	261.21	6.09	5.23	85.88	3.19	52.38	5.5
261.21	267.31	6.10	5.63	92.30	4.29	70.33	5.5
267.31	273.41	6.10	5.56	91.15	3.30	54.10	5
273.41	279.50	6.09	5.71	93.76	4.05	66.50	5.5
279.50	285.60	6.10	5.87	96.23	4.83	79.18	5
285.60	287.12	1.52	1.24	81.58	1.24	81.58	5
287.12	290.47	3.35	3.33	99.40	2.37	70.75	5.5
290.47	293.52	3.05	3.14	102.95	3.02	99.02	5.5
293.52	296.88	3.36	3.20	95.24	2.65	78.87	5
296.88	299.92	3.04	2.81	92.43	2.12	69.74	5
299.92	303.28	3.36	3.14	93.45	2.35	69.94	5.5
303.28	306.32	3.04	2.92	96.05	1.86	61.18	5.5
306.32	309.68	3.36	3.25	96.73	2.22	66.07	5
309.68	312.72	3.04	3.02	99.34	2.55	83.88	5
312.72	316.08	3.36	3.32	98.81	3.18	94.64	5.5
316.08	319.13	3.05	3.03	99.34	2.43	79.67	5
319.13	325.22	6.09	5.89	96.72	4.33	71.10	5
325.22	331.32	6.10	5.99	98.20	4.83	79.18	5
331.32	337.00	5.68	5.88	103.52	4.55	80.11	5.5
337.41	343.51	6.10	6.03	98.85	4.05	66.39	5
343.51	347.47	3.96	4.85	122.47	1.65	41.67	4.5
347.47	351.74	4.27	4.41	103.28	2.39	55.97	5
351.74	356.31	4.57	4.39	96.06	3.75	82.06	5.5
356.31	361.80	5.49	5.13	93.44	2.90	52.82	5
361.80	367.89	6.09	5.66	92.94	2.93	48.11	5
367.89	373.99	6.10	5.75	94.26	4.03	66.07	5.5
373.99	380.09	6.10	5.87	96.23	4.39	71.97	5.5
380.09	386.18	6.09	5.32	87.36	3.28	53.86	5
386.18	389.23	3.05	2.67	87.54	2.65	86.89	5.5
389.23	398.68	9.45	9.09	96.19	5.66	59.89	5
398.68	404.77	6.09	5.82	95.57	3.79	62.23	5.5

Interval (m)			Recovery		RQD		HARDNESS
404.77	410.57	5.80	5.91	101.90	4.89	84.31	5.5
410.57	416.66	6.09	6.10	100.16	4.22	69.29	5
416.66	422.76	6.10	6.04	99.02	3.09	50.66	5
422.76	428.85	6.09	5.91	97.04	4.97	81.61	5.5
428.85	431.90	3.05	2.68	87.87	1.34	43.93	5
431.90	434.95	3.05	2.89	94.75	1.52	49.84	5
434.95	438.00	3.05	2.87	94.10	0.73	23.93	4.5
438.00	444.09	6.09	5.34	87.68	4.59	75.37	5
444.09	450.19	6.10	6.08	99.67	4.51	73.93	5.5
450.19	456.29	6.10	6.48	106.23	5.10	83.61	4.5
456.29	462.38	6.09	6.02	98.85	5.22	85.71	5
462.38	468.48	6.10	5.93	97.21	5.04	82.62	5
468.48	474.57	6.09	5.83	95.73	5.01	82.27	3
474.57	480.67	6.10	5.91	96.89	4.14	67.87	4
480.67	486.77	6.10	5.97	97.87	4.95	81.15	4.5
486.77	492.86	6.09	6.20	101.81	5.47	89.82	4
492.86	498.96	6.10	5.75	94.26	4.93	80.82	4
498.96	500.48	1.52	1.73	113.82	1.56	102.63	4
500.48	503.53	3.05	2.97	97.38	2.43	79.67	4
503.53	506.58	3.05	2.82	92.46	2.73	89.51	4
506.58	508.10	1.52	1.70	111.84	1.20	78.95	3
508.10	514.20	6.10	6.00	98.36	5.42	88.85	4
514.20	520.29	6.09	6.07	99.67	5.48	89.98	4
520.29	526.39	6.10	6.11	100.16	4.47	73.28	3
526.39	532.49	6.10	5.88	96.39	4.79	78.52	4
532.49	538.58	6.09	5.98	98.19	5.70	93.60	5
538.58	544.68	6.10	6.10	100.00	5.66	92.79	4
544.68	550.77	6.09	5.91	97.04	5.41	88.83	4
550.77	556.87	6.10	6.17	101.15	5.67	92.95	4
556.87	562.97	6.10	6.02	98.69	5.80	95.08	4
562.97	569.06	6.09	6.18	101.48	5.33	87.52	4
569.06	573.63	4.57	4.62	101.09	3.83	83.81	4
573.63	576.99	3.36	2.99	88.99	2.70	80.36	4
576.99	580.03	3.04	3.00	98.68	2.73	89.80	5
580.03	583.39	3.36	3.23	96.13	2.51	74.70	4
583.39	586.44	3.05	3.04	99.67	2.38	78.03	4
586.44	589.79	3.35	3.29	98.21	2.66	79.40	4
589.79	592.84	3.05	3.06	100.33	2.30	75.41	4
592.84	595.88	3.04	3.09	101.64	1.61	52.96	4
595.88	599.24	3.36	3.35	99.70	2.21	65.77	4
599.24	602.28	3.04	2.97	97.70	1.93	63.49	4
602.28	605.64	3.36	3.26	97.02	1.96	58.33	4
605.64	608.69	3.05	3.04	99.67	2.21	72.46	4
608.69	614.78	6.09	6.37	104.60	5.37	88.18	4
614.78	620.88	6.10	5.74	94.10	3.91	64.10	4
620.88	626.97	6.09	6.38	104.76	4.98	81.77	4
626.97	633.07	6.10	5.56	91.15	3.84	62.95	4
633.07	639.17	6.10	6.37	104.43	3.98	65.25	4
639.17	645.26	6.09	6.16	101.15	3.70	60.76	3
645.26	649.83	4.57	4.10	89.72	3.31	72.43	4
649.83	655.02	5.19	5.16	99.42	4.32	83.24	4
655.02	660.50	5.48	5.57	101.64	4.90	89.42	3
660.50	666.60	6.10	5.92	97.05	3.62	59.34	4
666.60	672.69	6.09	6.08	99.84	3.21	52.71	4
672.69	678.79	6.10	5.74	94.10	4.96	81.31	4
678.79	684.89	6.10	6.37	104.43	5.87	96.23	4

Interval (m)			Recovery		RQD		HARDNESS
684.89	690.98	6.09	6.13	100.66	5.62	92.28	4
690.98	697.08	6.10	5.88	96.39	5.29	86.72	4
697.08	703.17	6.09	6.05	99.34	3.71	60.92	4

Date: 10-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-45

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
3.35	6.40	3.05	2.21	72	0.67	22	4.0
6.40	9.45	3.05	1.97	65	0.43	14	3.0
9.45	12.50	3.05	1.99	65	0.67	22	3.0
12.50	18.59	6.09	2.15	35	0.68	11	3.0
18.59	21.64	3.05	2.82	92	0.18	6	3.0
21.64	24.69	3.05	1.53	50	0.73	24	3.0
24.69	26.12	1.43	0.73	51	0.00	0	3.0
26.12	27.74	1.62	1.04	64	0.71	44	3.0
27.74	29.26	1.52	0.66	43	0.62	41	3.0
29.26	30.78	1.52	1.55	102	1.41	93	4.0
30.78	32.31	1.53	1.42	93	0.47	31	3.0
32.31	33.83	1.52	1.12	74	0.00	0	3.0
33.83	35.36	1.53	1.56	102	0.12	8	3.0
35.36	36.88	1.52	1.46	96	0.38	25	3.0
36.88	39.93	3.05	2.71	89	0.74	24	3.0
39.93	41.45	1.52	1.33	87	0.51	34	4.0
41.45	42.98	1.53	1.41	92	0.31	20	4.0
42.98	44.50	1.52	1.37	90	0.38	25	4.0
44.50	46.02	1.52	1.24	82	0.33	22	4.0
46.02	47.55	1.53	1.70	111	0.74	48	4.0
47.55	49.07	1.52	0.41	27	0.10	7	4.0
49.07	52.12	3.05	2.94	96	1.40	46	4.0
52.12	55.17	3.05	3.04	100	1.92	63	4.0
55.17	58.22	3.05	2.92	96	1.27	42	4.0
58.22	61.26	3.04	2.98	98	1.29	42	4.0
61.26	64.31	3.05	3.08	101	1.37	45	4.0
64.31	70.41	6.10	5.91	97	2.93	48	4.0
70.41	73.46	3.05	3.08	101	0.53	17	4.0
73.46	76.50	3.04	2.95	97	0.45	15	3.5
76.50	79.55	3.05	3.05	100	0.37	12	3.5
79.55	82.60	3.05	3.06	100	0.94	31	4.0
82.60	85.65	3.05	2.98	98	1.09	36	3.0
85.65	88.70	3.05	2.97	97	2.09	69	3.5
88.70	91.74	3.04	2.89	95	0.83	27	3.5
91.74	94.79	3.05	2.69	88	0.46	15	3.5
94.79	97.84	3.05	3.06	100	1.27	42	3.5
97.84	100.89	3.05	2.77	91	1.06	35	3.5
100.89	103.94	3.05	2.99	98	1.10	36	3.5
103.94	106.98	3.04	3.07	101	0.52	17	3.5
106.98	110.03	3.05	2.89	95	1.24	41	3.5
110.03	113.08	3.05	2.67	88	1.03	34	3.5
113.08	116.13	3.05	2.99	98	1.79	59	3.5
116.13	119.18	3.05	2.76	90	0.85	28	3.5
119.18	122.22	3.04	3.09	102	0.97	32	3.5
122.22	125.27	3.05	2.63	86	0.53	17	3.0
125.27	128.32	3.05	2.75	90	0.38	12	3.0
128.32	131.37	3.05	2.68	88	0.90	30	2.0
131.37	134.42	3.05	3.05	100	1.76	58	3.5
134.42	137.46	3.04	3.05	100	1.28	42	4.5
137.46	140.51	3.05	3.06	100	0.76	25	4.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
140.51	143.56	3.05	3.01	99	1.97	65	3.5
143.56	146.61	3.05	3.02	99	1.71	56	3.5
146.61	149.66	3.05	2.88	94	1.13	37	3.5
149.66	152.70	3.04	2.76	91	0.95	31	3.5
152.70	155.75	3.05	3.00	98	1.24	41	3.5
155.75	158.80	3.05	3.05	100	1.66	54	4.0
158.80	161.85	3.05	3.00	98	1.39	46	4.0
161.85	164.90	3.05	3.05	100	2.43	80	4.0
164.90	167.94	3.04	2.96	97	1.71	56	4.0
167.94	170.99	3.05	2.75	90	1.59	52	4.0
170.99	174.04	3.05	3.00	98	1.60	52	3.5
174.04	177.09	3.05	2.87	94	0.37	12	3.5
177.09	180.14	3.05	2.92	96	0.66	22	3.5
180.14	183.18	3.04	3.04	100	0.88	29	4.0
183.18	186.23	3.05	2.87	94	1.34	44	3.0
186.23	189.28	3.05	3.00	98	0.11	4	3.5
189.28	192.33	3.05	2.64	87	0.24	8	4.0
192.33	195.38	3.05	2.97	97	0.81	27	4.0
195.38	198.42	3.04	3.02	99	0.82	27	5.0
198.42	201.47	3.05	2.92	96	0.43	14	5.0
201.47	204.52	3.05	3.02	99	1.61	53	5.0
204.52	207.57	3.05	3.06	100	2.31	76	5.5
207.57	210.62	3.05	3.07	101	2.77	91	5.5
210.62	213.66	3.04	3.01	99	1.83	60	5.5
213.66	216.71	3.05	3.02	99	2.43	80	5.5
216.71	219.76	3.05	3.02	99	1.92	63	5.0
219.76	222.81	3.05	2.87	94	1.31	43	4.5
222.81	225.86	3.05	3.01	99	0.73	24	4.0
225.86	228.90	3.04	2.98	98	1.53	50	4.5
228.90	231.95	3.05	3.02	99	1.43	47	5.0
231.95	235.00	3.05	2.86	94	1.39	46	4.0
235.00	238.35	3.35	2.98	89	2.24	67	4.5
238.35	241.10	2.75	3.17	115	2.17	79	5.0
241.10	244.14	3.04	3.13	103	2.11	69	5.0
244.14	247.19	3.05	2.98	98	1.84	60	5.0
247.19	250.24	3.05	3.01	99	2.46	81	5.0
250.24	253.29	3.05	2.95	97	1.87	61	5.0
253.29	256.34	3.05	3.13	103	1.32	43	4.5
256.34	259.38	3.04	3.01	99	1.47	48	5.0
259.38	262.43	3.05	2.98	98	1.34	44	4.5
262.43	265.48	3.05	3.11	102	1.13	37	4.5
265.48	268.53	3.05	3.12	102	2.05	67	5.0
268.53	271.58	3.05	2.97	97	2.33	76	5.0
271.58	274.62	3.04	2.81	92	1.99	65	5.0
274.62	277.67	3.05	3.04	100	1.77	58	5.0
277.67	280.72	3.05	3.14	103	1.13	37	5.0
280.72	283.77	3.05	2.98	98	1.24	41	5.0
283.77	286.82	3.05	3.01	99	1.76	58	5.5
286.82	289.86	3.04	3.06	101	1.39	46	5.0
289.86	292.91	3.05	2.94	96	1.34	44	5.0
292.91	295.96	3.05	3.04	100	1.14	37	4.0
295.96	299.01	3.05	2.89	95	2.60	85	5.0
299.01	302.06	3.05	3.07	101	2.45	80	5.5
302.06	305.10	3.04	3.04	100	2.01	66	5.0
305.10	308.15	3.05	3.02	99	1.99	65	5.0
308.15	311.20	3.05	3.05	100	2.19	72	5.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
311.20	314.25	3.05	2.94	96	2.27	74	5.5
314.25	317.30	3.05	3.07	101	1.85	61	5.0
317.30	320.34	3.04	3.09	102	2.07	68	5.0
320.34	323.39	3.05	3.07	101	1.83	60	5.0
323.39	326.44	3.05	3.11	102	2.73	90	5.0
326.44	329.49	3.05	2.99	98	2.32	76	5.0
329.49	332.54	3.05	3.09	101	2.62	86	5.5
332.54	335.58	3.04	3.04	100	2.54	84	5.5
335.58	338.63	3.05	3.07	101	2.45	80	5.5
338.63	341.68	3.05	3.03	99	2.51	82	5.5
341.68	344.73	3.05	3.06	100	2.59	85	5.0
344.73	347.78	3.05	2.99	98	2.52	83	5.0
347.78	350.82	3.04	3.03	100	2.36	78	5.0
350.82	353.87	3.05	3.02	99	1.97	65	5.0
353.87	356.92	3.05	2.98	98	1.94	64	5.0
356.92	359.97	3.05	2.92	96	1.04	34	5.0
359.97	363.02	3.05	3.08	101	0.92	30	4.5
363.02	366.06	3.04	2.98	98	1.91	63	5.0
366.06	369.11	3.05	3.05	100	1.89	62	5.0
369.11	372.16	3.05	3.04	100	2.46	81	5.0
372.16	375.21	3.05	3.01	99	2.51	82	4.5
375.21	378.56	3.35	3.21	96	2.19	65	5.0
378.56	381.30	2.74	2.82	103	1.96	72	5.0
381.30	384.35	3.05	3.11	102	2.10	69	4.5
384.35	387.40	3.05	3.00	98	2.03	67	5.0
387.40	390.45	3.05	3.11	102	1.46	48	4.5
390.45	393.50	3.05	2.98	98	1.74	57	5.0
393.50	396.54	3.04	2.95	97	1.90	62	5.0
396.54	399.59	3.05	2.88	94	1.21	40	4.5
399.59	402.64	3.05	3.04	100	2.07	68	3.5
402.64	405.69	3.05	3.06	100	2.13	70	4.0
405.69	408.74	3.05	3.15	103	2.66	87	4.0
408.74	411.78	3.04	3.04	100	2.51	83	4.0
411.78	414.83	3.05	3.00	98	2.44	80	4.0
414.83	417.88	3.05	3.05	100	2.40	79	4.0
417.88	420.93	3.05	3.04	100	2.58	85	4.0
420.93	423.98	3.05	3.04	100	2.16	71	3.0
423.98	427.02	3.04	3.02	99	1.73	57	2.0
427.02	430.07	3.05	3.08	101	1.91	63	2.0
430.07	433.12	3.05	3.08	101	1.97	65	2.0
433.12	436.17	3.05	3.05	100	2.17	71	3.0
436.17	439.22	3.05	3.03	99	2.64	87	3.0
439.22	442.26	3.04	3.11	102	2.43	80	3.0
442.26	445.31	3.05	3.15	103	2.23	73	3.0
445.31	448.36	3.05	3.12	102	1.73	57	2.0
448.36	451.41	3.05	3.16	104	1.90	62	2.0
451.41	454.46	3.05	3.08	101	2.47	81	3.0
454.46	457.50	3.04	3.02	99	2.77	91	4.0
457.50	460.55	3.05	3.12	102	2.56	84	4.0
460.55	463.60	3.05	3.01	99	2.15	70	3.0
463.60	466.65	3.05	3.16	104	1.94	64	2.0
466.65	469.70	3.05	3.14	103	2.26	74	3.0
469.70	472.74	3.04	3.02	99	2.39	79	3.0
472.74	475.79	3.05	3.09	101	1.50	49	2.0
475.79	478.84	3.05	3.12	102	2.23	73	3.0
478.84	481.89	3.05	3.15	103	1.95	64	2.0

Date: 3-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-46

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
15.85	18.10	2.25	0.30	13	0.00	0	
18.10	21.95	3.85	0.73	19	0.00	0	3
21.95	24.99	3.04	2.05	67	0.00	0	3
24.99	28.04	3.05	1.13	37	0.64	21	4
28.04	31.09	3.05	2.66	87	1.65	54	4
31.09	32.61	1.52	1.37	90	0.98	64	4
32.61	34.14	1.53	1.62	106	0.79	52	4
34.14	35.66	1.52	1.32	87	0.38	25	4.5
35.66	37.19	1.53	1.60	105	0.65	42	4.5
37.19	38.71	1.52	1.09	72	0.51	34	4
38.71	40.23	1.52	1.39	91	0.76	50	4
40.23	41.76	1.53	1.51	99	0.86	56	4.5
41.76	43.28	1.52	1.58	104	1.27	84	4.5
43.28	44.81	1.53	1.45	95	0.44	29	4
44.81	46.33	1.52	1.23	81	0.00	0	4
46.33	47.85	1.52	1.12	74	0.51	34	4.5
47.85	49.78	1.93	1.21	63	0.40	21	4.5
49.78	50.90	1.12	1.11	99	0.86	77	4
50.90	52.43	1.53	1.41	92	0.79	52	5
52.43	53.95	1.52	1.50	99	0.68	45	5
53.95	55.47	1.52	1.12	74	0.55	36	5
55.47	57.00	1.53	1.51	99	0.45	29	4
57.00	60.05	3.05	2.18	71	0.22	7	4
60.05	63.09	3.04	2.41	79	1.10	36	4
63.09	66.14	3.05	2.60	85	1.84	60	4.5
66.14	69.19	3.05	2.46	81	1.99	65	4.5
69.19	72.24	3.05	2.60	85	2.08	68	4.5
72.24	75.29	3.05	2.82	92	2.13	70	5
75.29	78.33	3.04	2.85	94	2.69	88	5
78.33	81.38	3.05	2.93	96	2.60	85	5
81.38	84.43	3.05	2.61	86	2.43	80	5
84.43	87.17	2.74	2.92	107	2.52	92	4.5
87.17	90.53	3.36	2.88	86	2.37	71	4.5
90.53	93.57	3.04	2.87	94	2.08	68	5
93.57	96.62	3.05	3.07	101	1.91	63	5
96.62	99.67	3.05	2.91	95	0.44	14	3.5
99.67	102.72	3.05	2.87	94	1.03	34	4.5
102.72	105.77	3.05	2.76	90	0.79	26	3.5
105.77	108.81	3.04	3.02	99	2.14	70	5
108.81	111.86	3.05	2.99	98	1.71	56	5
111.86	114.91	3.05	3.10	102	2.27	74	5
114.91	117.96	3.05	2.80	92	1.31	43	4.5
117.96	121.01	3.05	3.04	100	1.47	48	4
121.01	124.36	3.35	3.01	90	1.72	51	4.5
124.36	127.10	2.74	3.02	110	0.66	24	3.5
127.10	130.15	3.05	2.84	93	1.79	59	4.5
130.15	133.20	3.05	3.12	102	2.21	72	5
133.20	136.25	3.05	3.05	100	2.28	75	5
136.25	139.29	3.04	2.81	92	1.58	52	4.5
139.29	142.34	3.05	3.00	98	1.54	50	4.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
142.34	145.39	3.05	2.98	98	2.31	76	5
145.39	148.44	3.05	2.93	96	2.54	83	5
148.44	151.49	3.05	3.04	100	2.50	82	5
151.49	154.43	2.94	2.75	94	1.51	51	5.5
154.43	157.58	3.15	3.03	96	1.98	63	5
157.58	160.63	3.05	3.10	102	2.07	68	5.5
160.63	163.68	3.05	2.81	92	1.47	48	4.5
163.68	166.73	3.05	2.85	93	1.66	54	4.5
166.73	169.77	3.04	2.98	98	1.47	48	4
169.77	172.82	3.05	2.96	97	2.05	67	4
172.82	175.87	3.05	2.78	91	1.98	65	4
175.87	178.92	3.05	3.14	103	2.87	94	4.5
178.92	181.97	3.05	2.67	88	2.15	70	4
181.97	185.01	3.04	3.47	114	2.68	88	3.5
185.01	188.06	3.05	2.39	78	1.73	57	4
188.06	191.11	3.05	3.45	113	1.23	40	4
191.11	194.16	3.05	2.88	94	1.33	44	3.5
194.16	197.21	3.05	2.91	95	2.42	79	4.5
197.21	200.25	3.04	3.05	100	2.39	79	4
200.25	203.30	3.05	3.03	99	2.89	95	4.5
203.30	206.35	3.05	2.90	95	2.51	82	4.5
206.35	209.40	3.05	2.73	90	1.17	38	4.5
209.40	212.45	3.05	2.39	78	0.76	25	4
212.45	215.49	3.04	2.46	81	1.93	63	4.5
215.49	218.54	3.05	3.05	100	1.37	45	4
218.54	221.59	3.05	2.83	93	1.12	37	4
221.59	224.64	3.05	1.98	65	1.25	41	4.5
224.64	227.69	3.05	2.75	90	1.02	33	5
227.69	230.73	3.04	3.01	99	1.91	63	5
230.73	233.78	3.05	2.85	93	1.69	55	4.5
233.78	236.83	3.05	3.05	100	2.78	91	4.5
236.83	239.88	3.05	2.73	90	1.55	51	5
239.88	242.93	3.05	2.61	86	1.25	41	5
242.93	245.97	3.04	3.20	105	1.25	41	4.5
245.97	249.33	3.36	2.59	77	0.79	24	4
249.33	252.07	2.74	2.81	103	0.00	0	3.5
252.07	255.12	3.05	2.81	92	1.31	43	4.5
255.12	258.17	3.05	2.76	90	1.74	57	5
258.17	261.21	3.04	3.03	100	2.11	69	5
261.21	264.26	3.05	2.72	89	0.91	30	4.5
264.26	267.31	3.05	2.89	95	0.77	25	4
267.31	270.36	3.05	2.98	98	1.12	37	4
270.36	273.71	3.35	2.92	87	0.17	5	3.5
273.71	276.45	2.74	2.86	104	0.88	32	4
276.45	279.50	3.05	2.65	87	0.68	22	4
279.50	282.55	3.05	2.99	98	1.39	46	5
282.55	285.60	3.05	3.07	101	1.61	53	4.5
285.60	288.65	3.05	3.00	98	1.96	64	5.5
288.65	291.69	3.04	2.97	98	1.81	60	5.5
291.69	294.74	3.05	3.04	100	1.76	58	4.5
294.74	297.79	3.05	2.55	84	1.22	40	5.5
297.79	300.84	3.05	3.04	100	2.40	79	5
300.84	303.89	3.05	3.01	99	2.45	80	4.5
303.89	306.93	3.04	2.50	82	1.68	55	4.5
306.93	309.98	3.05	3.05	100	2.75	90	5
309.98	313.03	3.05	2.66	87	1.84	60	4

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
313.03	316.08	3.05	3.00	98	2.80	92	5.5
316.08	319.13	3.05	2.90	95	1.67	55	4
319.13	322.17	3.04	2.80	92	1.87	62	3.5
322.17	325.22	3.05	2.90	95	2.14	70	4.5
325.22	328.27	3.05	2.60	85	1.59	52	4
328.27	331.32	3.05	2.31	76	1.77	58	4
331.32	334.37	3.05	2.77	91	1.59	52	4.5
334.37	337.41	3.04	2.90	95	2.25	74	4
337.41	340.46	3.05	2.94	96	2.26	74	5
340.46	343.61	3.15	2.78	88	2.21	70	5
343.61	346.56	2.95	2.77	94	2.09	71	5
346.56	349.61	3.05	3.05	100	2.76	90	5.5
349.61	352.65	3.04	2.78	91	1.64	54	5
352.65	355.70	3.05	2.84	93	2.63	86	5
355.70	358.75	3.05	3.05	100	2.12	70	5
358.75	361.80	3.05	2.75	90	2.14	70	5
361.80	364.85	3.05	3.04	100	2.55	84	5.5
364.85	367.89	3.04	2.62	86	0.88	29	5.5
367.89	370.94	3.05	2.90	95	1.23	40	4
370.94	373.99	3.05	2.53	83	1.46	48	4
373.99	377.04	3.05	2.82	92	1.36	45	5
377.04	380.09	3.05	2.60	85	1.60	52	5
380.09	383.13	3.04	2.95	97	1.42	47	4.5
383.13	386.18	3.05	2.61	86	1.53	50	4
386.18	389.23	3.05	3.04	100	2.43	80	4.5
389.23	392.28	3.05	2.98	98	1.29	42	5
392.28	395.33	3.05	2.86	94	1.54	50	4
395.33	398.37	3.04	2.72	89	1.59	52	4
398.37	401.42	3.05	2.83	93	1.32	43	4.5
401.42	404.47	3.05	2.65	87	0.88	29	4.5
404.47	407.52	3.05	2.86	94	1.54	50	4.5
407.52	410.57	3.05	3.01	99	2.03	67	4
410.57	413.61	3.04	2.84	93	1.35	44	4
413.61	416.66	3.05	3.05	100	1.91	63	4.5
416.66	419.71	3.05	2.88	94	1.86	61	4
419.71	422.46	2.75	3.04	111	2.12	77	4.0
422.46	425.81	3.35	2.54	76	1.12	33	5.0
425.81	431.90	6.09	5.13	84	3.12	51	5.5
431.90	434.95	3.05	2.98	98	2.60	85	5.0
434.95	439.52	4.57	3.94	86	2.05	45	5.0
439.52	442.57	3.05	2.09	69	1.36	45	4.5
442.57	445.62	3.05	2.95	97	0.97	32	4.5
445.62	448.66	3.04	2.71	89	1.18	39	4.0
448.66	451.71	3.05	3.03	99	0.79	26	4.5
451.71	454.76	3.05	3.00	98	1.40	46	4.0
454.76	457.81	3.05	2.85	93	1.02	33	4.0
457.81	460.85	3.04	2.95	97	1.49	49	4.5
460.85	466.95	6.10	5.61	92	2.60	43	4.0
466.95	470.00	3.05	2.92	96	2.11	69	4.0
470.00	473.05	3.05	2.98	98	1.75	57	4.5
473.05	476.10	3.05	2.70	89	1.03	34	4.5
476.10	479.14	3.04	3.08	101	2.40	79	5.0
479.14	482.19	3.05	2.79	91	1.94	64	5.5
482.19	485.24	3.05	3.02	99	2.63	86	5.0
485.24	488.29	3.05	3.00	98	2.13	70	5.5
488.29	491.33	3.04	3.02	99	2.82	93	5.0

Date: 2-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-47

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	2.74	CASING					
2.74	3.05	0.31	0.17	55	0.00	0	2.0
3.05	6.10	3.05	0.47	15	0.00	0	2.0
6.10	7.32	1.22	0.80	66	0.00	0	2.0
7.32	8.84	1.52	0.38	25	0.00	0	2.0
8.84	10.06	1.22	0.82	67	0.10	8	2.5
10.06	12.19	2.13	1.84	86	0.00	0	2.0
12.19	14.02	1.83	1.68	92	0.00	0	2.0
14.02	15.24	1.22	0.71	58	0.21	17	2.0
15.24	16.46	1.22	1.11	91	0.20	16	2.5
16.46	17.98	1.52	1.32	87	0.00	0	2.5
17.98	18.90	0.92	0.63	68	0.00	0	2.0
18.90	20.42	1.52	0.78	51	0.00	0	2.5
20.42	21.34	0.92	0.70	76	0.00	0	2.5
21.34	22.86	1.52	1.20	79	0.00	0	2.0
22.86	24.38	1.52	1.25	82	0.00	0	2.5
24.38	25.91	1.53	1.16	76	0.00	0	2.0
25.91	26.82	0.91	0.88	97	0.00	0	2.5
26.82	28.35	1.53	1.56	102	0.34	22	3.5
28.35	29.87	1.52	1.36	89	0.33	22	4.0
29.87	31.39	1.52	1.45	95	0.31	20	3.5
31.39	32.92	1.53	1.30	85	0.48	31	4.5
32.92	33.53	0.61	0.61	100	0.10	16	4.0
33.53	35.05	1.52	1.36	89	0.43	28	3.5
35.05	36.58	1.53	1.21	79	0.28	18	4.0
36.58	38.10	1.52	1.45	95	0.46	30	4.0
38.10	39.62	1.52	1.37	90	0.59	39	3.5
39.62	41.15	1.53	1.34	88	0.70	46	4.0
41.15	42.67	1.52	1.50	99	0.57	37	4.0
42.67	44.20	1.53	1.56	102	0.00	0	4.0
44.20	46.33	2.13	2.05	96	0.50	23	3.5
46.33	47.85	1.52	1.46	96	0.80	53	4.0
47.85	49.68	1.83	1.43	78	0.81	44	3.5
49.68	51.21	1.53	1.54	101	1.27	83	4.5
51.21	55.47	4.26	2.04	48	1.12	26	4.5
55.47	58.83	3.36	3.37	100	2.15	64	5.0
58.83	61.26	2.43	2.41	99	1.83	75	5.0
61.26	65.53	4.27	3.98	93	2.93	69	5.0
65.53	70.10	4.57	4.32	95	2.58	56	4.5
70.10	73.15	3.05	2.97	97	1.52	50	5.0
73.15	78.03	4.88	4.80	98	3.08	63	4.5
78.03	82.91	4.88	4.77	98	4.06	83	5.0
82.91	85.65	2.74	2.66	97	1.30	47	4.5
85.65	89.31	3.66	3.14	86	1.24	34	5.0
89.31	93.88	4.57	4.56	100	2.76	60	4.5
93.88	98.15	4.27	4.10	96	3.81	89	5.5
98.15	103.02	4.87	4.54	93	3.80	78	4.5
103.02	106.68	3.66	3.34	91	2.16	59	5.0
106.68	110.34	3.66	3.24	89	2.38	65	5.0
110.34	112.78	2.44	2.34	96	1.85	76	5.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
112.78	117.04	4.26	4.12	97	2.03	48	5.0
117.04	121.62	4.58	3.66	80	0.66	14	5.0
121.62	124.66	3.04	2.99	98	0.69	23	5.0
124.66	129.24	4.58	4.71	103	2.18	48	5.0
129.24	132.89	3.65	3.40	93	0.84	23	4.5
132.89	137.77	4.88	4.78	98	3.27	67	5.0
137.77	141.73	3.96	3.18	80	1.71	43	5.0
141.73	146.91	5.18	4.24	82	2.92	56	4.5
146.91	151.79	4.88	4.35	89	2.42	50	5.0
151.79	156.67	4.88	4.93	101	3.64	75	5.0
156.67	160.93	4.26	4.07	96	0.69	16	5.5
160.93	165.81	4.88	4.86	100	1.99	41	5.5
165.81	170.69	4.88	4.46	91	2.98	61	4.5
170.69	173.74	3.05	2.76	90	1.32	43	5.0
173.74	178.61	4.87	4.69	96	3.20	66	5.0
178.61	183.48	4.87	4.96	102	4.23	87	5.0
183.48	188.37	4.89	4.78	98	4.57	93	5.0
188.37	193.24	4.87	4.89	100	4.06	83	5.5
193.24	198.12	4.88	4.92	101	3.24	66	4.5
198.12	203.00	4.88	4.81	99	3.56	73	4.5
203.00	207.87	4.87	4.86	100	3.00	62	5.0
207.87	212.75	4.88	5.03	103	3.36	69	5.0
212.75	217.63	4.88	4.78	98	3.09	63	5.0
217.63	222.50	4.87	3.96	81	3.99	82	4.5
222.50	227.38	4.88	4.79	98	3.95	81	4.5
227.38	232.26	4.88	4.84	99	3.97	81	5.0
232.26	237.13	4.87	4.78	98	3.42	70	5.0
237.13	239.57	2.44	2.38	98	1.05	43	5.5
239.57	244.45	4.88	5.04	103	3.93	81	4.5
244.45	249.33	4.88	4.84	99	2.01	41	4.0
249.33	254.20	4.87	4.95	102	2.92	60	5.0
254.20	259.08	4.88	4.88	100	4.81	99	5.0
259.08	263.96	4.88	4.78	98	3.26	67	4.5
263.96	268.83	4.87	4.98	102	3.66	75	4.5
268.83	273.71	4.88	4.90	100	4.51	92	4.5
273.71	278.59	4.88	4.59	94	4.16	85	4.5
278.59	283.46	4.87	4.97	102	4.34	89	4.0
283.46	288.34	4.88	4.92	101	4.30	88	4.0
288.34	293.22	4.88	4.55	93	4.47	92	4.0
293.22	298.09	4.87	4.76	98	3.99	82	4.0
298.09	302.36	4.27	4.62	108	3.84	90	4.0
302.36	307.24	4.88	4.69	96	4.08	84	4.5
307.24	311.81	4.57	4.96	109	4.79	105	4.5
311.81	316.69	4.88	4.89	100	2.88	59	5.0
316.69	321.56	4.87	5.00	103	4.02	83	4.5
321.56	326.14	4.58	4.94	108	3.75	82	4.0
326.14	331.01	4.87	4.85	100	3.42	70	4.0
331.01	335.89	4.88	5.24	107	4.56	93	4.0
335.89	340.77	4.88	4.71	97	4.06	83	4.5
340.77	345.03	4.26	4.10	96	3.68	86	4.0
345.03	349.91	4.88	4.85	99	3.85	79	4.0
349.91	354.79	4.88	4.69	96	3.84	79	3.5
354.79	359.66	4.87	4.96	102	3.85	79	4.0
359.66	364.54	4.88	4.81	99	4.47	92	4.0
364.54	369.42	4.88	4.90	100	4.57	94	4.0
369.42	374.29	4.87	4.84	99	4.71	97	4.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
374.29	384.05	9.76	4.92	50	3.87	40	4.0
384.05	388.32	4.27	4.34	102	3.89	91	4.0
388.32	393.19	4.87	4.92	101	4.27	88	4.0
393.19	398.07	4.88	4.82	99	3.99	82	4.0
398.07	402.95	4.88	4.90	100	4.48	92	4.0
402.95	407.21	4.26	4.25	100	3.71	87	4.0
407.21	410.26	3.05	2.95	97	1.86	61	4.0
410.26	415.14	4.88	4.70	96	3.50	72	3.5
415.14	420.01	4.87	4.79	98	3.39	70	4.0
420.01	424.89	4.88	4.77	98	3.86	79	4.5
424.89	429.77	4.88	4.96	102	4.38	90	4.0
429.77	434.64	4.87	4.88	100	4.02	83	4.0
434.64	439.52	4.88	4.80	98	3.72	76	4.0
439.52	444.40	4.88	4.82	99	4.20	86	4.5
444.40	449.28	4.88	4.85	99	4.28	88	5.0
449.28	454.15	4.87	4.77	98	2.28	47	3.5
454.15	457.20	3.05	2.95	97	1.41	46	3.0
457.20	459.64	2.44	2.47	101	1.56	64	4.0
459.64	462.08	2.44	2.54	104	1.64	67	4.0
462.08	466.95	4.87	4.76	98	2.06	42	4.0
466.95	468.17	1.22	0.54	44	0.10	8	3.0
468.17	472.44	4.27	4.19	98	3.42	80	3.0
472.44	477.32	4.88	4.17	85	3.81	78	4.0
477.32	482.19	4.87	4.90	101	4.77	98	3.0
482.19	487.07	4.88	4.87	100	3.98	82	3.5
487.07	491.95	4.88	4.78	98	4.21	86	4.0
491.95	496.82	4.87	4.93	101	3.89	80	4.0
496.82	499.87	3.05	2.41	79	0.70	23	3.0
499.87	504.44	4.57	4.56	100	2.77	61	3.5
504.44	507.49	3.05	2.96	97	1.44	47	4.0
507.49	511.15	3.66	3.68	101	1.88	51	3.0
511.15	516.03	4.88	4.83	99	2.21	45	2.0
516.03	520.90	4.87	5.00	103	4.20	86	2.5
520.90	524.87	3.97	4.03	102	2.42	61	3.0
524.87	529.44	4.57	4.46	98	3.81	83	3.0
529.44	534.31	4.87	4.85	100	4.12	85	3.0
534.31	537.06	2.75	2.52	92	1.38	50	3.0
537.06	540.41	3.35	3.14	94	1.03	31	3.0
540.41	543.46	3.05	2.66	87	0.83	27	3.0

E.O.H

Date: 3-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-48

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.66	3.66	1.11	30	0.52	14	4.0
3.66	5.18	1.52	1.41	93	0.94	62	4.0
5.18	6.71	1.53	1.48	97	0.99	65	4.0
6.71	8.23	1.52	1.60	105	1.06	70	4.5
8.23	9.75	1.52	1.54	101	1.34	88	3.0
9.75	11.28	1.53	1.56	102	1.02	67	3.0
11.28	12.19	0.91	0.89	98	0.67	74	3.0
12.19	17.37	5.18	4.96	96	3.13	60	4.0
17.37	22.86	5.49	5.34	97	3.69	67	4.5
22.86	26.52	3.66	3.13	86	2.20	60	4.0
26.52	30.18	3.66	3.38	92	1.62	44	3.5
30.18	35.05	4.87	4.58	94	3.00	62	3.5
35.05	38.10	3.05	3.10	102	1.68	55	3.0
38.10	41.45	3.35	3.30	99	0.50	15	3.5
41.45	45.42	3.97	3.50	88	1.64	41	3.0
45.42	50.90	5.48	5.46	100	4.44	81	3.0
50.90	56.08	5.18	5.13	99	2.03	39	3.0
56.08	59.44	3.36	3.36	100	2.07	62	3.5
59.44	64.01	4.57	4.13	90	1.48	32	3.0
64.01	67.67	3.66	3.45	94	0.49	13	3.5
67.67	70.10	2.43	2.25	93	0.46	19	3.0
70.10	73.15	3.05	3.18	104	1.31	43	3.5
73.15	78.33	5.18	5.22	101	3.29	64	3.0
78.33	84.43	6.10	6.04	99	3.73	61	3.5
84.43	90.53	6.10	5.80	95	2.21	36	4.0
90.53	96.62	6.09	5.89	97	4.34	71	3.0
96.62	102.72	6.10	6.16	101	4.46	73	3.0
102.72	108.81	6.09	6.37	105	5.18	85	3.0
108.81	114.91	6.10	6.14	101	4.38	72	3.0
114.91	121.07	6.16	6.05	98	5.39	88	4.0
121.07	127.10	6.03	5.89	98	2.58	43	2.0
127.10	133.20	6.10	5.28	87	5.10	84	5.0
133.20	139.29	6.09	6.05	99	3.98	65	3.0
139.29	145.39	6.10	5.98	98	5.53	91	4.0
145.39	151.49	6.10	5.99	98	3.83	63	3.0
151.49	157.58	6.09	6.01	99	3.92	64	3.0
157.58	163.68	6.10	6.05	99	4.71	77	4.0
163.68	169.77	6.09	6.04	99	4.80	79	4.0
169.77	174.04	4.27	4.13	97	3.28	77	4.0
174.04	177.70	3.66	3.36	92	2.65	72	4.0
177.70	180.75	3.05	2.96	97	2.36	77	4.0
180.75	184.10	3.35	3.28	98	2.18	65	3.0
184.10	187.15	3.05	3.16	104	0.85	28	1.0
187.15	193.24	6.09	5.90	97	3.85	63	3.0
193.24	196.60	3.36	3.85	115	1.82	54	2.0
196.60	199.64	3.04	2.95	97	1.37	45	2.0
199.64	203.06	3.42	3.34	98	2.83	83	3.0
203.06	206.04	2.98	3.01	101	1.94	65	2.0
206.04	212.45	6.41	6.04	94	4.59	72	4.0
212.45	218.54	6.09	5.88	97	4.81	79	3.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
218.54	224.64	6.10	5.20	85	3.76	62	3.0
224.64	230.73	6.09	5.72	94	4.41	72	3.0
230.73	236.52	5.79	5.60	97	4.02	69	2.0
236.52	242.62	6.10	6.05	99	3.16	52	3.0
242.62	249.02	6.40	5.76	90	3.35	52	2.0
249.02	254.51	5.49	5.31	97	2.59	47	3.0
254.51	260.60	6.09	6.29	103	4.11	67	3.0
260.60	267.00	6.40	6.43	100	3.87	60	4.0
267.00	273.41	6.41	5.50	86	4.76	74	3.0
273.41	279.50	6.09	6.00	99	4.22	69	3.0
279.50	285.60	6.10	6.21	102	3.81	62	3.0
285.60	291.69	6.09	5.89	97	4.95	81	3.0
291.69	297.79	6.10	6.31	103	4.66	76	3.0
297.79	303.89	6.10	6.05	99	3.60	59	2.0
303.89	309.98	6.09	6.15	101	4.81	79	3.0
309.98	316.08	6.10	6.24	102	4.42	72	3.0
316.08	322.17	6.09	6.46	106	4.66	77	3.0
322.17	328.27	6.10	6.28	103	4.81	79	3.0
328.27	330.71	2.44	2.43	100	2.34	96	4.0
330.71	334.06	3.35	3.26	97	2.82	84	4.0
334.06	337.11	3.05	3.05	100	2.81	92	4.0
337.11	340.46	3.35	3.23	96	1.81	54	3.0
340.46	343.51	3.05	3.02	99	2.21	72	3.0
343.51	349.61	6.10	6.08	100	2.74	45	4.0
349.61	355.70	6.09	5.38	88	4.05	67	4.0
355.70	361.80	6.10	6.15	101	4.19	69	3.5
361.80	367.87	6.07	6.03	99	5.35	88	3.0
367.87	373.99	6.12	6.25	102	5.62	92	3.0
373.99	380.09	6.10	6.06	99	4.97	81	3.0
380.09	386.18	6.09	5.97	98	4.70	77	3.5
386.18	392.28	6.10	6.20	102	5.22	86	4.0
392.28	398.37	6.09	6.18	101	5.30	87	3.5
398.37	404.47	6.10	6.14	101	4.44	73	3.5
404.47	410.57	6.10	5.97	98	4.81	79	3.5
410.57	416.66	6.09	6.13	101	4.90	80	3.0
416.66	422.76	6.10	5.91	97	3.06	50	3.0
422.76	428.85	6.09	5.95	98	3.60	59	3.0
428.85	434.95	6.10	6.17	101	3.37	55	3.0
434.95	441.05	6.10	6.13	100	4.00	66	3.0
441.05	447.14	6.09	5.90	97	4.70	77	3.0
447.14	453.24	6.10	6.02	99	3.74	61	3.0
453.24	459.33	6.09	6.01	99	3.31	54	3.0
459.33	465.43	6.10	6.13	100	4.31	71	2.5
465.43	471.53	6.10	6.05	99	4.69	77	3.5
471.53	474.57	3.04	3.13	103	2.54	84	3.5
474.57	477.62	3.05	3.09	101	2.53	83	4.0
477.62	480.67	3.05	2.90	95	2.69	88	3.0
480.67	484.94	4.27	4.24	99	2.84	67	3.0
484.94	491.03	6.09	5.84	96	1.81	30	3.5
491.03	495.91	4.88	4.85	99	3.21	66	3.5
495.91	501.40	5.49	5.51	100	3.17	58	3.5
501.40	508.10	6.70	6.08	91	3.61	54	3.0
508.10	514.20	6.10	4.65	76	4.11	67	3.0
514.20	520.29	6.09	5.84	96	3.09	51	3.0
520.29	526.39	6.10	6.20	102	4.16	68	4.0
526.39	532.49	6.10	5.92	97	3.50	57	4.0

Date: 25-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-49

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.66						
3.66	5.18	1.52	0.94	62	0.22	14	2.5
5.18	8.23	3.05	2.61	86	1.38	45	3.0
8.23	11.28	3.05	2.76	90	0.80	26	3.0
11.28	14.33	3.05	2.92	96	0.92	30	2.5
14.33	16.46	2.13	2.17	102	0.81	38	3.0
16.46	17.37	0.91	0.92	101	0.69	76	3.0
17.37	20.42	3.05	2.97	97	1.65	54	4.0
20.42	23.47	3.05	3.00	98	0.21	7	4.5
23.47	26.52	3.05	2.89	95	1.23	40	4.5
26.52	29.57	3.05	2.52	83	1.32	43	4.0
29.57	32.61	3.04	1.34	44	0.52	17	1.0
32.61	35.66	3.05	3.09	101	2.81	92	2.5
35.66	38.71	3.05	2.98	98	1.91	63	3.0
38.71	41.76	3.05	2.92	96	1.99	65	3.0
41.76	44.81	3.05	2.90	95	2.32	76	3.0
44.81	47.85	3.04	2.98	98	1.76	58	3.5
47.85	50.90	3.05	3.16	104	1.91	63	3.5
50.90	53.95	3.05	2.69	88	1.81	59	4.0
53.95	57.00	3.05	2.98	98	2.30	75	3.5
57.00	60.05	3.05	3.05	100	2.16	71	3.5
60.05	63.09	3.04	2.38	78	2.05	67	4.0
63.09	66.14	3.05	3.09	101	2.32	76	4.0
66.14	69.19	3.05	3.10	102	1.77	58	3.5
69.19	72.24	3.05	3.13	103	2.27	74	3.5
72.24	75.29	3.05	3.00	98	2.41	79	3.5
75.29	78.33	3.04	3.10	102	2.50	82	4.0
78.33	81.38	3.05	2.99	98	2.40	79	4.0
81.38	84.43	3.05	3.10	102	2.48	81	3.5
84.43	87.48	3.05	3.08	101	2.73	90	3.5
87.48	90.53	3.05	3.10	102	2.75	90	3.5
90.53	93.57	3.04	3.10	102	2.86	94	3.0
93.57	96.62	3.05	2.76	90	1.46	48	3.0
96.62	99.67	3.05	3.07	101	2.13	70	3.5
99.67	102.72	3.05	3.09	101	1.44	47	4.0
102.72	105.77	3.05	2.96	97	1.53	50	3.0
105.77	108.81	3.04	3.03	100	2.34	77	3.5
108.81	111.86	3.05	2.99	98	2.05	67	4.0
111.86	114.91	3.05	3.04	100	2.22	73	3.5
114.91	117.96	3.05	2.99	98	1.62	53	3.5
117.96	121.01	3.05	3.12	102	2.63	86	3.5
121.01	124.05	3.04	2.85	94	1.59	52	3.5
124.05	127.10	3.05	2.89	95	2.13	70	3.0
127.10	130.15	3.05	3.05	100	2.12	70	3.0
130.15	133.20	3.05	3.02	99	2.22	73	3.0
133.20	136.25	3.05	3.07	101	2.39	78	4.0
136.25	139.29	3.04	2.97	98	2.39	79	3.5
139.29	142.34	3.05	3.16	104	2.48	81	4.0
142.34	145.39	3.05	3.00	98	2.09	69	4.5
145.39	148.44	3.05	3.14	103	2.42	79	4.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
148.44	151.49	3.05	3.10	102	2.20	72	3.5
151.49	154.33	2.84	3.11	110	1.53	54	3.5
154.33	157.58	3.25	3.06	94	1.76	54	3.5
157.58	160.63	3.05	3.09	101	1.56	51	4.0
160.63	163.68	3.05	3.03	99	1.58	52	4.0
163.68	166.73	3.05	3.00	98	1.17	38	3.0
166.73	169.77	3.04	2.93	96	1.65	54	5.0
169.77	172.82	3.05	3.15	103	1.58	52	4.5
172.82	175.87	3.05	3.10	102	1.81	59	5.0
175.87	178.92	3.05	3.61	118	1.50	49	4.5
178.92	181.97	3.05	3.58	117	1.48	49	4.5
181.97	185.01	3.04	3.18	105	1.82	60	4.5
185.01	188.06	3.05	2.89	95	2.44	80	4.5
188.06	191.11	3.05	2.82	92	2.22	73	4.0
191.11	194.16	3.05	2.96	97	2.46	81	4.0
194.16	197.21	3.05	2.94	96	2.17	71	4.5
197.21	200.25	3.04	3.13	103	2.28	75	4.0
200.25	203.30	3.05	3.16	104	2.09	69	4.0
203.30	206.36	3.06	3.09	101	1.48	48	3.0
206.36	209.40	3.04	2.79	92	2.16	71	4.0
209.40	212.46	3.06	3.08	101	2.34	76	4.0
212.46	215.49	3.03	3.03	100	2.48	82	4.0
215.49	218.54	3.05	3.24	106	2.46	81	3.5
218.54	221.59	3.05	2.82	92	1.76	58	3.5
221.59	224.64	3.05	3.20	105	2.10	69	3.0
224.64	227.69	3.05	3.13	103	2.39	78	4.0
227.69	230.73	3.04	2.99	98	1.95	64	3.0
230.73	233.78	3.05	3.08	101	2.66	87	4.5
233.78	236.83	3.05	3.01	99	2.81	92	5.0
236.83	239.88	3.05	2.90	95	2.84	93	6.0
239.88	242.93	3.05	3.04	100	2.48	81	5.0
242.93	245.97	3.04	2.99	98	2.53	83	5.0
245.97	249.02	3.05	3.12	102	2.42	79	4.0
249.02	252.07	3.05	3.01	99	2.49	82	4.0
252.07	255.12	3.05	3.09	101	2.48	81	3.5
255.12	258.17	3.05	2.98	98	2.45	80	4.0
258.17	261.21	3.04	3.15	104	2.38	78	4.0
261.21	264.26	3.05	2.92	96	2.89	95	4.0
264.26	267.31	3.05	2.85	93	2.03	67	4.0
267.31	270.36	3.05	3.05	100	2.01	66	4.0
270.36	273.41	3.05	3.10	102	2.68	88	4.0
273.41	276.45	3.04	3.17	104	2.93	96	3.0
276.45	279.50	3.05	2.92	96	2.34	77	3.0
279.50	282.55	3.05	3.13	103	1.85	61	4.0
282.55	285.60	3.05	3.18	104	1.63	53	3.5
285.60	288.65	3.05	2.95	97	1.50	49	3.0
288.65	291.69	3.04	3.02	99	1.89	62	4.0
291.69	294.74	3.05	3.19	105	1.97	65	4.0
294.74	297.79	3.05	3.15	103	1.09	36	4.5
297.79	300.84	3.05	2.90	95	1.97	65	4.0
300.84	303.89	3.05	3.26	107	2.13	70	3.0
303.89	306.93	3.04	2.83	93	2.72	89	3.0
306.93	309.98	3.05	2.99	98	2.39	78	3.0
309.98	313.03	3.05	2.98	98	1.61	53	3.5
313.03	316.08	3.05	3.05	100	2.41	79	4.0
316.08	319.13	3.05	2.94	96	2.15	70	5.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
319.13	322.17	3.04	3.09	102	2.62	86	5.0
322.17	325.22	3.05	3.05	100	2.24	73	5.0
325.22	328.27	3.05	3.02	99	2.12	70	4.0
328.27	331.32	3.05	2.92	96	2.43	80	4.0
331.32	334.37	3.05	3.06	100	2.04	67	4.0
334.37	337.41	3.04	2.93	96	1.91	63	5.0
337.41	340.46	3.05	3.11	102	2.21	72	4.5
340.46	343.51	3.05	2.89	95	2.66	87	5.0
343.51	346.56	3.05	3.15	103	2.52	83	4.5
346.56	349.61	3.05	3.02	99	2.36	77	5.0
349.61	352.65	3.04	2.90	95	1.48	49	3.5
352.65	355.70	3.05	3.01	99	2.42	79	5.0
355.70	358.75	3.05	3.08	101	2.67	88	5.0
358.75	361.80	3.05	3.22	106	2.75	90	4.0
361.80	364.85	3.05	3.01	99	2.21	72	5.0
364.85	367.89	3.04	3.12	103	2.84	93	5.0
367.89	370.94	3.05	3.01	99	2.08	68	4.0
370.94	373.99	3.05	2.99	98	2.10	69	5.0
373.99	377.04	3.05	3.12	102	2.24	73	5.0
377.04	380.09	3.05	2.96	97	2.06	68	4.0
380.09	383.13	3.04	3.06	101	2.69	88	5.0
383.13	386.18	3.05	2.89	95	2.54	83	4.0
386.18	389.23	3.05	3.23	106	2.72	89	5.0
389.23	392.28	3.05	3.04	100	2.64	87	5.0
392.28	395.33	3.05	3.13	103	3.02	99	5.0
395.33	398.37	3.04	3.15	104	2.77	91	5.0
398.37	401.42	3.05	2.87	94	2.49	82	4.5
401.42	404.47	3.05	3.09	101	2.94	96	4.0
404.47	407.52	3.05	3.05	100	2.80	92	4.0
407.52	410.57	3.05	3.09	101	2.81	92	4.0
410.57	413.61	3.04	3.07	101	2.22	73	4.0
413.61	416.66	3.05	2.96	97	2.83	93	4.0
416.66	419.71	3.05	2.80	92	1.64	54	3.5
419.71	422.76	3.05	3.03	99	1.63	53	4.0
422.76	425.81	3.05	3.12	102	2.64	87	5.0
425.81	428.85	3.04	3.05	100	2.36	78	5.0
428.85	431.90	3.05	3.12	102	2.73	90	4.0
431.90	434.95	3.05	3.08	101	2.77	91	5.0
434.95	438.00	3.05	2.95	97	2.68	88	4.0
438.00	441.05	3.05	2.94	96	2.21	72	4.0
441.05	444.09	3.04	3.01	99	2.44	80	4.0
444.09	447.14	3.05	3.12	102	2.06	68	5.0
447.14	450.19	3.05	3.01	99	2.76	90	5.0
450.19	453.24	3.05	3.01	99	2.57	84	5.0
453.24	456.29	3.05	2.94	96	2.83	93	5.0
456.29	459.33	3.04	2.77	91	2.01	66	5.0
459.33	462.38	3.05	3.01	99	1.87	61	4.0
462.38	465.43	3.05	3.09	101	2.30	75	4.5
465.43	468.48	3.05	3.26	107	2.50	82	5.0
468.48	471.53	3.05	3.09	101	2.90	95	5.5
471.53	474.57	3.04	2.95	97	1.89	62	4.0
474.57	477.62	3.05	3.13	103	2.24	73	4.5
477.62	480.67	3.05	3.00	98	2.47	81	4.5
480.67	483.72	3.05	2.97	97	2.62	86	3.0
483.72	486.77	3.05	3.15	103	2.46	81	4.0
486.77	489.81	3.04	2.94	97	2.03	67	5.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
489.81	492.86	3.05	3.08	101	2.21	72	3.0
492.86	495.91	3.05	2.91	95	1.57	51	4.0
495.91	498.96	3.05	3.05	100	1.82	60	3.0
498.96	502.01	3.05	3.08	101	1.68	55	4.0
502.01	505.05	3.04	3.08	101	1.99	65	3.5
505.05	508.10	3.05	2.74	90	1.66	54	3.0
508.10	511.15	3.05	2.84	93	1.97	65	3.0
511.15	514.20	3.05	3.07	101	1.81	59	3.0
514.20	517.25	3.05	2.98	98	1.98	65	3.0
517.25	520.29	3.04	3.07	101	2.59	85	3.0
520.29	523.34	3.05	2.87	94	1.77	58	4.0
523.34	524.56	1.22	1.09	89	0.47	39	3.0
524.56	526.39	1.83	1.68	92	0.83	45	4.0
526.39	529.44	3.05	3.02	99	1.06	35	3.5
529.44	532.49	3.05	3.08	101	1.65	54	4.0
532.49	535.53	3.04	3.00	99	1.55	51	4.0
535.53	538.58	3.05	3.07	101	2.49	82	3.5
538.58	541.63	3.05	3.10	102	2.40	79	4.0
541.63	544.68	3.05	3.02	99	2.02	66	4.0
544.68	547.73	3.05	2.92	1	1.92	63	4.0
547.73	550.77	3.04	2.98	98	1.49	49	3.0
550.77	553.82	3.05	2.81	92	1.89	62	4.0
553.82	556.87	3.05	2.75	90	1.58	52	3.5
556.87	559.92	3.05	2.86	94	1.59	52	4.0
559.92	562.97	3.05	2.98	98	2.25	74	4.0
562.97	566.01	3.04	3.14	103	0.60	20	4.0
566.01	569.06	3.05	3.33	109	0.72	24	4.0
569.06	572.11	3.05	2.83	93	1.86	61	3.5
572.11	575.16	3.05	3.09	101	1.15	38	4.0
575.16	578.21	3.05	2.95	97	1.59	52	3.5
578.21	581.25	3.04	3.04	100	1.89	62	4.5
581.25	584.30	3.05	3.17	104	1.95	64	5.0
584.30	587.35	3.05	3.21	105	1.46	48	4.5
587.35	590.40	3.05	2.93	96	2.21	72	4.5
590.40	593.45	3.05	3.10	102	1.73	57	4.5
593.45	596.49	3.04	3.26	107	1.13	37	5.0
596.49	599.54	3.05	2.80	92	0.84	28	4.0
599.54	602.59	3.05	3.18	104	1.35	44	4.0
602.59	605.64	3.05	3.34	110	0.14	5	3.0
605.64	608.69	3.05	2.71	89	0.32	10	3.0
608.69	611.73	3.04	3.08	101	1.45	48	4.5
611.73	614.78	3.05	2.86	94	1.94	64	4.0
614.78	617.83	3.05	3.35	110	2.83	93	4.0
617.83	620.88	3.05	3.12	102	1.76	58	4.5
620.88	623.93	3.05	2.88	94	1.95	64	4.5
623.93	626.97	3.04	3.08	101	2.58	85	4.0
626.97	630.02	3.05	2.91	95	0.18	6	4.0
630.02	633.07	3.05	3.13	103	0.16	5	3.5
633.07	636.12	3.05	3.06	100	0.19	6	3.5
636.12	639.17	3.05	3.10	102	0.18	6	3.0
639.17	642.21	3.04	3.04	100	0.30	10	3.5
642.21	645.26	3.05	3.11	102	1.18	39	4.5
645.26	648.31	3.05	3.15	103	0.19	6	3.0
648.31	651.36	3.05	3.22	106	0.75	25	3.5
651.36	654.31	2.95	2.89	98	0.97	33	4.5
654.31	657.45	3.14	3.16	101	1.30	41	4.0

Date: Oct 28,2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-50

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	3.96	3.96	2.99	76	1.44	36	4.0
3.96	4.88	0.92	1.01	110	0.88	96	5.0
4.88	6.10	1.22	1.52	125	1.40	115	5.0
6.10	7.62	1.52	1.34	88	1.05	69	5.5
7.62	11.58	3.96	3.47	88	2.92	74	5.0
11.58	14.94	3.36	3.05	91	2.64	79	5.0
14.94	18.29	3.35	3.33	99	2.87	86	4.0
18.29	21.34	3.05	2.68	88	2.54	83	6.0
21.34	24.38	3.04	3.13	103	3.02	99	5.0
24.38	27.74	3.36	3.02	90	2.39	71	5.0
27.74	30.78	3.04	3.02	99	2.60	86	5.0
30.78	33.83	3.05	3.03	99	2.25	74	4.0
33.83	36.88	3.05	3.08	101	2.40	79	4.0
36.88	39.93	3.05	3.06	100	2.37	78	4.0
39.93	42.98	3.05	3.04	100	2.24	73	4.0
42.98	46.02	3.04	3.06	101	2.01	66	4.0
46.02	49.07	3.05	3.12	102	1.78	58	3.5
49.07	52.12	3.05	3.14	103	2.74	90	4.5
52.12	55.17	3.05	2.95	97	2.26	74	4.5
55.17	58.22	3.05	2.99	98	2.44	80	5.0
58.22	61.26	3.04	3.09	102	2.61	86	4.5
61.26	64.31	3.05	3.01	99	2.40	79	4.5
64.31	67.36	3.05	3.12	102	1.74	57	3.5
67.36	70.41	3.05	3.00	98	2.51	82	4.5
70.41	73.46	3.05	2.93	96	1.99	65	3.5
73.46	76.50	3.04	3.02	99	0.75	25	5.0
76.50	79.55	3.05	2.93	96	2.16	71	5.0
79.55	82.60	3.05	3.14	103	2.58	85	4.5
82.60	85.65	3.05	2.90	95	2.10	69	5.0
85.65	88.70	3.05	3.02	99	1.97	65	4.0
88.70	91.74	3.04	2.91	96	1.34	44	4.5
91.74	94.79	3.05	2.78	91	1.67	55	5.0
94.79	97.84	3.05	2.98	98	1.38	45	5.5
97.84	100.89	3.05	3.00	98	2.45	80	5.0
100.89	103.94	3.05	2.78	91	0.59	19	5.0
103.94	106.98	3.04	2.90	95	0.78	26	5.0
106.98	110.03	3.05	3.14	103	1.17	38	5.5
110.03	113.08	3.05	3.18	104	2.05	67	5.0
113.08	116.13	3.05	1.95	64	1.29	42	5.0
116.13	119.18	3.05	2.88	94	1.78	58	5.0
119.18	122.22	3.04	3.00	99	1.59	52	5.0
122.22	125.27	3.05	2.98	98	2.24	73	5.0
125.27	128.32	3.05	2.68	88	2.31	76	5.0
128.32	131.37	3.05	2.63	86	1.51	50	5.0
131.37	134.42	3.05	3.00	98	2.04	67	4.5
134.42	137.46	3.04	2.99	98	2.85	94	5.0
137.46	140.51	3.05	2.99	98	2.82	92	5.0
140.51	143.56	3.05	2.89	95	2.31	76	5.5
143.56	146.61	3.05	2.93	96	1.40	46	5.5
146.61	149.66	3.05	2.91	95	1.86	61	5.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
149.66	152.70	3.04	2.93	96	2.59	85	5.0
152.70	155.75	3.05	3.01	99	2.57	84	5.0
155.75	158.80	3.05	2.95	97	2.61	86	5.0
158.80	161.85	3.05	3.11	102	2.30	75	5.0
161.85	164.90	3.05	3.02	99	2.56	84	5.0
164.90	167.94	3.04	3.08	101	2.47	81	5.0
167.94	170.99	3.05	3.13	103	1.98	65	5.0
170.99	174.04	3.05	3.02	99	2.28	75	5.0
174.04	177.09	3.05	3.09	101	2.33	76	5.0
177.09	180.14	3.05	2.85	93	2.01	66	5.0
180.14	183.18	3.04	3.30	109	2.09	69	5.0
183.18	186.23	3.05	3.07	101	2.46	81	4.5
186.23	189.28	3.05	3.08	101	2.92	96	5.0
189.28	192.33	3.05	2.99	98	2.60	85	4.5
192.33	195.38	3.05	2.98	98	2.78	91	5.5
195.38	198.42	3.04	3.09	102	2.92	96	5.5
198.42	201.47	3.05	2.56	84	1.26	41	5.0
201.47	204.52	3.05	2.30	75	1.94	64	5.0
204.52	207.57	3.05	3.10	102	1.97	65	5.0
207.57	213.66	6.09	4.03	66	2.14	35	5.0
213.66	216.71	3.05	3.42	112	2.04	67	5.0
216.71	219.76	3.05	3.12	102	2.60	85	5.0
219.76	222.81	3.05	2.82	92	1.27	42	5.0
222.81	225.86	3.05	3.51	115	3.17	104	5.5
225.86	228.90	3.04	2.99	98	2.03	67	5.0
228.90	231.95	3.05	2.90	95	2.38	78	5.0
231.95	235.00	3.05	2.75	90	2.69	88	5.0
235.00	238.05	3.05	2.91	95	2.26	74	5.0
238.05	241.10	3.05	3.91	128	3.57	117	5.0
241.10	244.14	3.04	2.87	94	2.47	81	5.0
244.14	247.19	3.05	2.82	92	2.03	67	5.0
247.19	250.24	3.05	2.60	85	1.70	56	5.0
250.24	253.29	3.05	3.29	108	2.06	68	5.0
253.29	256.34	3.05	2.85	93	1.99	65	5.0
256.34	259.38	3.04	3.05	100	2.65	87	5.0
259.38	262.13	2.75	3.01	110	2.07	75	5.0
262.13	265.48	3.35	2.95	88	2.85	85	5.0
265.48	268.53	3.05	2.97	97	1.87	61	5.0
268.53	271.58	3.05	3.04	100	2.43	80	5.0
271.58	274.62	3.04	3.06	101	2.74	90	5.0
274.62	277.67	3.05	3.05	100	2.37	78	5.0
277.67	280.72	3.05	2.90	95	2.40	79	5.0
280.72	283.77	3.05	2.81	92	2.13	70	5.0
283.77	286.82	3.05	3.72	122	2.04	67	5.0
286.82	289.86	3.04	3.50	115	1.77	58	5.0
289.86	292.91	3.05	2.64	87	2.18	71	4.5
292.91	295.96	3.05	3.48	114	2.54	83	4.5
295.96	299.01	3.05	2.94	96	2.02	66	5.0
299.01	302.06	3.05	3.24	106	2.25	74	4.5
302.06	305.10	3.04	3.22	106	2.56	84	5.0
305.10	308.15	3.05	3.15	103	3.00	98	5.0
308.15	311.20	3.05	3.10	102	2.17	71	5.0
311.20	314.25	3.05	3.19	105	1.98	65	4.5
314.25	317.30	3.05	3.00	98	1.70	56	5.0
317.30	320.34	3.04	3.10	102	2.90	95	5.0
320.34	323.39	3.05	2.92	96	2.04	67	4.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
323.39	326.44	3.05	3.08	101	1.98	65	4.5
326.44	329.49	3.05	3.42	112	1.49	49	5.0
329.49	332.54	3.05	3.30	108	2.10	69	4.5
332.54	335.58	3.04	3.07	101	2.72	89	4.5
335.58	338.63	3.05	3.20	105	1.92	63	4.0
338.63	341.68	3.05	3.06	100	2.16	71	3.5
341.68	344.73	3.05	3.12	102	2.28	75	4.0
344.73	347.78	3.05	3.21	105	1.75	57	4.0
347.78	350.82	3.04	3.05	100	2.02	66	4.0
350.82	353.87	3.05	3.25	107	2.51	82	4.0
353.87	356.92	3.05	3.14	103	2.69	88	4.0
356.92	359.97	3.05	3.07	101	2.44	80	4.0
359.97	363.02	3.05	3.22	106	2.34	77	4.0
363.02	366.06	3.04	3.03	100	2.68	88	4.0
366.06	369.11	3.05	3.05	100	1.71	56	4.0
369.11	373.99	4.88	4.55	93	4.15	85	5.0
373.99	378.87	4.88	4.86	100	2.16	44	4.0
378.87	383.74	4.87	4.68	96	2.77	57	4.0
383.74	388.62	4.88	2.83	58	1.68	34	4.0
388.62	393.50	4.88	4.43	91	2.69	55	4.0
393.50	398.37	4.87	3.66	75	2.59	53	4.0
398.37	403.25	4.88	3.65	75	1.88	39	4.0
403.25	409.35	6.10	4.13	68	2.00	33	4.0
409.35	414.22	4.87	3.80	78	3.17	65	4.0
414.22	419.10	4.88	4.29	88	2.56	52	4.0
419.10	423.67	4.57	3.80	83	3.20	70	4.0
423.67	428.55	4.88	4.70	96	3.14	64	4.0
428.55	429.77	1.22	2.03	166	1.38	113	4.0
429.77	435.25	5.48	3.87	71	2.28	42	4.0
435.25	440.13	4.88	4.27	88	2.71	56	4.0
440.13	445.01	4.88	4.36	89	2.95	60	4.0
445.01	449.58	4.57	3.35	73	2.81	61	4.0
449.58	454.46	4.88	4.03	83	1.81	37	4.0
454.46	457.50	3.04	2.22	73	0.46	15	4.0
457.50	462.38	4.88	4.38	90	3.49	72	4.0
462.38	466.95	4.57	3.75	82	2.72	60	4.0
466.95	471.53	4.58	4.46	97	4.12	90	4.0
471.53	476.40	4.87	4.47	92	3.16	65	4.0
476.40	481.28	4.88	4.92	101	3.31	68	4.0
481.28	485.85	4.57	4.73	104	3.18	70	4.0
485.85	490.42	4.57	4.45	97	2.59	57	4.0
490.42	495.30	4.88	4.90	100	3.83	78	4.0
495.30	500.18	4.88	4.60	94	3.20	66	4.0
500.18	505.05	4.87	4.65	95	3.60	74	4.0
505.05	509.93	4.88	4.63	95	2.69	55	5.0
509.93	512.67	2.74	2.28	83	0.97	35	5.0
512.67	514.20	1.53	1.35	88	0.80	52	5.0
514.20	514.81	0.61	0.37	61	0.12	20	5.0
514.81	519.68	4.87	4.78	98	4.10	84	5.0
519.68	524.86	5.18	4.68	90	2.84	55	5.0
524.86	529.44	4.58	4.48	98	3.12	68	5.0
529.44	534.31	4.87	4.52	93	2.94	60	6.0
534.31	539.19	4.88	4.74	97	3.14	64	4.0
539.19	544.07	4.88	3.77	77	1.75	36	4.0
544.07	548.34	4.27	3.60	84	2.05	48	6.0
548.34	551.69	3.35	2.82	84	1.25	37	6.0

Date: 21-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-51

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	2.13	CASING					
2.13	3.66	1.53	1.53	100	0.00	0	3.5
3.66	6.10	2.44	0.83	34	0.00	0	3.5
6.10	7.62	1.52	1.51	99	0.72	47	3.5
7.62	9.14	1.52	1.50	99	1.07	70	4.0
9.14	14.02	4.88	4.00	82	1.97	40	3.5
14.02	17.37	3.35	3.29	98	2.24	67	3.0
17.37	20.42	3.05	2.83	93	1.63	53	4.0
20.42	26.52	6.10	6.00	98	3.56	58	4.0
26.52	32.31	5.79	5.99	103	1.54	27	4.0
32.31	35.66	3.35	3.29	98	1.65	49	4.5
35.66	38.31	2.65	3.09	117	2.14	81	4.0
38.31	42.98	4.67	3.33	71	2.54	54	4.0
42.98	46.33	3.35	3.29	98	2.24	67	4.5
46.33	49.38	3.05	3.05	100	1.81	59	4.0
49.38	52.73	3.35	3.40	101	1.06	32	4.0
52.73	55.78	3.05	3.28	108	0.40	13	3.5
55.78	59.13	3.35	3.68	110	0.32	10	4.0
59.13	62.18	3.05	3.03	99	1.62	53	3.0
62.18	69.19	7.01	5.45	78	3.13	45	3.0
69.19	75.29	6.10	6.23	102	2.30	38	3.5
75.29	81.38	6.09	5.83	96	4.44	73	3.5
81.38	87.48	6.10	6.23	102	4.17	68	3.0
87.48	90.53	3.05	2.68	88	1.20	39	3.0
90.53	96.92	6.39	5.04	79	4.53	71	3.0
96.92	102.72	5.80	6.02	104	3.97	68	3.0
102.72	108.81	6.09	6.20	102	3.73	61	3.0
108.81	114.91	6.10	5.83	96	3.02	50	3.0
114.91	117.96	3.05	2.88	94	0.66	22	4.5
117.96	121.01	3.05	3.56	117	2.62	86	3.5
121.01	127.10	6.09	5.78	95	3.80	62	4.0
127.10	131.98	4.88	4.61	94	2.90	59	4.0
131.98	138.38	6.40	6.39	100	4.88	76	3.0
138.38	140.81	2.43	2.49	102	2.01	83	3.5
140.81	142.65	1.84	2.01	109	1.58	86	4.5
142.65	146.61	3.96	3.59	91	2.23	56	4.0
146.61	151.49	4.88	5.42	111	3.70	76	4.5
151.49	154.84	3.35	3.30	99	2.87	86	5.0
154.84	160.63	5.79	5.63	97	4.47	77	5.5
160.63	166.73	6.10	6.04	99	5.22	86	5.0
166.73	172.82	6.09	6.01	99	3.74	61	4.0
172.82	176.48	3.66	3.58	98	1.42	39	4.5
176.48	180.75	4.27	4.44	104	2.16	51	4.5
180.75	185.01	4.26	4.39	103	1.29	30	4.0
185.01	191.11	6.10	6.24	102	4.05	66	4.0
191.11	195.68	4.57	4.88	107	1.42	31	3.0
195.68	199.03	3.35	3.58	107	1.32	39	3.0
199.03	202.08	3.05	3.36	110	0.51	17	3.0
202.08	206.96	4.88	4.25	87	1.88	39	3.5
206.96	212.45	5.49	5.57	101	2.39	44	4.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
212.45	217.32	4.87	4.89	100	2.60	53	4.5
217.32	221.59	4.27	4.06	95	3.49	82	4.0
221.59	227.69	6.10	6.35	104	5.51	90	4.0
227.69	232.26	4.57	4.49	98	3.59	79	4.5
232.26	235.61	3.35	3.53	105	2.27	68	4.0
235.61	238.66	3.05	3.32	109	1.75	57	3.5
238.66	242.93	4.27	4.47	105	3.34	78	4.0
242.93	247.50	4.57	4.08	89	2.48	54	4.0
247.50	252.07	4.57	5.20	114	4.15	91	4.5
252.07	258.17	6.10	6.89	113	5.40	89	4.0
258.17	264.26	6.09	6.29	103	4.43	73	4.5
264.26	269.14	4.88	4.62	95	3.18	65	4.0
269.14	275.54	6.40	6.77	106	4.30	67	3.5
275.54	279.50	3.96	3.88	98	2.26	57	4.0
279.50	280.72	1.22	1.41	116	0.84	69	4.0
280.72	282.55	1.83	1.97	108	1.00	55	4.0
282.55	286.82	4.27	4.46	104	3.30	77	4.0
286.82	290.78	3.96	3.91	99	3.26	82	4.5
290.78	297.18	6.40	6.37	100	5.19	81	4.5
297.18	300.84	3.66	4.36	119	3.17	87	4.0
300.84	306.02	5.18	5.18	100	3.70	71	4.0
306.02	312.42	6.40	6.31	99	5.32	83	4.0
312.42	316.99	4.57	4.64	102	2.89	63	4.0
316.99	323.39	6.40	6.20	97	3.78	59	3.5
323.39	327.05	3.66	3.61	99	2.58	70	4.0
327.05	331.01	3.96	4.16	105	2.72	69	4.0
331.01	336.80	5.79	4.83	83	2.23	39	3.5
336.80	341.07	4.27	4.13	97	2.30	54	3.5
341.07	343.51	2.44	2.42	99	1.17	48	4.5
343.51	348.69	5.18	5.32	103	1.43	28	4.5
348.69	355.09	6.40	6.44	101	3.88	61	5.0
355.09	358.44	3.35	3.17	95	2.49	74	5.0
358.44	361.80	3.36	3.45	103	2.54	76	5.0
361.80	367.89	6.09	6.18	101	3.31	54	4.5
367.89	373.99	6.10	6.09	100	3.85	63	3.5
373.99	378.56	4.57	4.27	93	1.89	41	4.0
378.56	381.91	3.35	3.33	99	2.80	84	5.0
381.91	384.96	3.05	3.14	103	1.78	58	4.0
384.96	388.32	3.36	3.34	99	2.32	69	4.5
388.32	391.36	3.04	3.02	99	2.43	80	5.0
391.36	397.46	6.10	6.33	104	3.79	62	4.5
397.46	400.81	3.35	3.38	101	2.21	66	4.0
400.81	403.86	3.05	3.12	102	2.33	76	3.0
403.86	410.26	6.40	6.61	103	2.24	35	3.0
410.26	411.48	1.22	1.23	101	0.36	30	3.0
411.48	417.88	6.40	6.21	97	3.45	54	3.5
417.88	419.10	1.22	1.09	89	0.51	42	4.0
419.10	425.50	6.40	6.28	98	3.05	48	3.5
425.50	426.72	1.22	1.17	96	0.11	9	4.0
426.72	433.12	6.40	6.60	103	4.38	68	4.5
433.12	439.52	6.40	6.15	96	4.26	67	4.0
439.52	445.62	6.10	4.94	81	3.32	54	4.5
445.62	451.71	6.09	6.18	101	4.65	76	4.5
451.71	456.90	5.19	5.15	99	2.55	49	4.5
456.90	463.30	6.40	5.84	91	4.93	77	4.5
463.30	466.34	3.04	3.08	101	1.70	56	4.5

Date: Oct 25 2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-52

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	8.23	8.23	1.29	16	0.42	5	4.5
8.23	11.28	3.05	2.91	95	1.52	50	5.0
11.28	14.33	3.05	3.03	99	1.24	41	4.5
14.33	17.37	3.04	2.99	98	1.26	41	4.5
17.37	20.42	3.05	3.22	106	1.20	39	4.0
20.42	23.47	3.05	2.96	97	1.21	40	4.5
23.47	26.52	3.05	2.23	73	0.89	29	5.0
26.52	29.57	3.05	3.26	107	2.06	68	5.5
29.57	32.61	3.04	3.14	103	2.54	84	5.0
32.61	35.66	3.05	3.17	104	1.55	51	5.5
35.66	38.71	3.05	3.24	106	0.80	26	4.5
38.71	41.76	3.05	2.97	97	0.78	26	4.5
41.76	44.81	3.05	2.99	98	1.96	64	5.5
44.81	47.85	3.04	2.96	97	1.47	48	5.0
47.85	50.90	3.05	2.79	91	1.28	42	5.0
50.90	53.95	3.05	3.09	101	1.99	65	5.0
53.95	57.00	3.05	3.00	98	1.25	41	4.5
57.00	60.05	3.05	2.59	85	1.57	51	4.0
60.05	63.09	3.04	2.99	98	1.75	58	5.5
63.09	66.14	3.05	3.10	102	2.45	80	5.5
66.14	69.19	3.05	3.04	100	2.48	81	5.5
69.19	72.24	3.05	2.97	97	2.16	71	5.5
72.24	75.29	3.05	3.04	100	1.96	64	5.0
75.29	78.33	3.04	3.22	106	2.79	92	5.5
78.33	81.38	3.05	2.99	98	2.13	70	5.5
81.38	84.43	3.05	2.95	97	2.23	73	5.5
84.43	87.48	3.05	3.00	98	2.10	69	5.5
87.48	90.53	3.05	3.05	100	2.17	71	5.5
90.53	93.57	3.04	3.21	106	2.39	79	5.5
93.57	96.62	3.05	2.91	95	2.08	68	5.5
96.62	99.67	3.05	2.78	91	2.13	70	5.5
99.67	102.72	3.05	3.16	104	1.79	59	5.0
102.72	105.77	3.05	3.06	100	1.36	45	4.5
105.77	108.81	3.04	3.04	100	2.35	77	5.5
108.81	111.86	3.05	2.69	88	2.19	72	5.5
111.86	114.91	3.05	3.38	111	2.57	84	5.5
114.91	117.96	3.05	3.10	102	1.65	54	5.0
117.96	121.01	3.05	2.98	98	2.32	76	5.5
121.01	124.05	3.04	3.05	100	1.84	61	5.5
124.05	127.10	3.05	3.08	101	2.27	74	5.5
127.10	130.15	3.05	2.98	98	2.38	78	5.5
130.15	133.20	3.05	3.26	107	2.58	85	5.5
133.20	136.25	3.05	3.05	100	2.21	72	5.5
136.25	139.29	3.04	3.02	99	1.27	42	4.5
139.29	142.34	3.05	3.07	101	1.11	36	4.0
142.34	145.39	3.05	3.10	102	1.56	51	4.5
145.39	148.44	3.05	3.15	103	2.16	71	5.0
148.44	151.49	3.05	3.06	100	1.88	62	5.0
151.49	154.53	3.04	3.09	102	2.26	74	5.5
154.53	157.58	3.05	3.07	101	2.02	66	5.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
157.58	160.63	3.05	2.88	94	0.88	29	5.5
160.63	163.68	3.05	2.85	93	2.15	70	5.5
163.68	166.73	3.05	2.90	95	2.47	81	5.5
166.73	169.77	3.04	2.70	89	1.49	49	5.0
169.77	172.88	3.11	3.09	99	2.51	81	5.5
172.88	175.87	2.99	3.07	103	1.86	62	5.5
175.87	178.92	3.05	2.94	96	1.90	62	5.0
178.92	181.97	3.05	3.07	101	2.60	85	5.0
181.97	185.01	3.04	3.03	100	1.47	48	5.5
185.01	188.06	3.05	3.11	102	2.52	83	5.0
188.06	191.11	3.05	2.78	91	2.29	75	5.5
191.11	194.16	3.05	3.08	101	2.69	88	5.5
194.16	197.20	3.04	2.85	94	2.57	85	5.5
197.20	200.25	3.05	3.10	102	2.57	84	5.5
200.25	206.35	6.10	2.81	46	2.69	44	5.5
206.35	209.40	3.05	2.77	91	2.29	75	5.5
209.40	212.45	3.05	3.28	108	2.07	68	5.5
212.45	215.49	3.04	3.07	101	1.22	40	5.5
215.49	218.54	3.05	2.93	96	1.22	40	5.5
218.54	221.59	3.05	2.95	97	1.74	57	5.5
221.59	224.64	3.05	2.83	93	1.60	52	5.5
224.64	227.69	3.05	2.91	95	1.99	65	5.0
227.69	230.73	3.04	3.15	104	1.62	53	5.5
230.73	233.78	3.05	3.13	103	1.88	62	5.5
233.78	236.83	3.05	2.89	95	2.18	71	5.5
236.83	239.88	3.05	2.96	97	2.27	74	5.5
239.88	242.93	3.05	3.10	102	2.57	84	5.5
242.93	245.97	3.04	3.05	100	2.79	92	5.5
245.97	249.02	3.05	3.07	101	1.47	48	5.0
249.02	252.07	3.05	2.75	90	1.80	59	5.0
252.07	255.12	3.05	3.04	100	1.59	52	5.0
255.12	258.17	3.05	2.87	94	1.26	41	5.0
258.17	261.21	3.04	3.07	101	1.95	64	5.5
261.21	264.26	3.05	3.02	99	1.94	64	5.5
264.26	267.31	3.05	2.96	97	1.93	63	5.5
267.31	270.36	3.05	2.98	98	1.85	61	5.5
270.36	273.41	3.05	2.90	95	2.41	79	5.5
273.41	276.45	3.04	2.76	91	1.47	48	5.5
276.45	279.50	3.05	2.88	94	2.44	80	5.5
279.50	282.55	3.05	3.34	110	3.06	100	5.5
282.55	285.60	3.05	2.96	97	1.51	50	5.0
285.60	288.65	3.05	2.95	97	2.19	72	5.5
288.65	291.69	3.04	2.60	86	1.68	55	5.5
291.69	294.74	3.05	3.13	103	2.39	78	5.5
294.74	297.79	3.05	2.86	94	0.68	22	5.0
297.79	300.84	3.05	2.90	95	1.89	62	5.5
300.84	303.89	3.05	3.08	101	2.71	89	5.5
303.89	306.93	3.04	3.29	108	1.82	60	5.5
306.93	309.98	3.05	2.90	95	1.24	41	5.0
309.98	313.03	3.05	2.86	94	1.30	43	5.0
313.03	316.08	3.05	3.19	105	1.73	57	5.5
316.08	319.13	3.05	3.02	99	1.27	42	5.0
319.13	322.17	3.04	2.92	96	1.29	42	5.0
322.17	325.22	3.05	2.85	93	1.88	62	5.5
325.22	328.27	3.05	2.88	94	1.64	54	5.5
328.27	331.32	3.05	2.90	95	1.91	63	5.5

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
331.32	334.37	3.05	3.19	105	2.50	82	5.5
334.37	337.41	3.04	3.22	106	2.86	94	5.5
337.41	340.46	3.05	2.99	98	2.34	77	5.5
340.46	343.51	3.05	2.97	97	0.96	31	5.0
343.51	346.56	3.05	3.12	102	1.55	51	5.0
346.56	349.61	3.05	3.11	102	1.59	52	5.0
349.61	352.65	3.04	2.94	97	1.67	55	5.0
352.65	355.70	3.05	2.96	97	1.34	44	5.0
355.70	358.75	3.05	3.19	105	2.00	66	5.0
358.75	361.80	3.05	3.00	98	1.05	34	5.0
361.80	364.85	3.05	3.01	99	2.10	69	5.5
364.85	367.89	3.04	2.81	92	1.55	51	5.5
367.89	370.94	3.05	2.73	90	0.57	19	5.0
370.94	373.99	3.05	2.97	97	2.77	91	5.5
373.99	377.04	3.05	3.02	99	2.07	68	5.5
377.04	380.09	3.05	2.51	82	1.11	36	5.5
380.09	383.13	3.04	3.16	104	1.81	60	5.5
383.13	386.18	3.05	2.84	93	1.84	60	5.5
386.18	389.23	3.05	3.11	102	2.06	68	5.5
389.23	392.28	3.05	3.14	103	2.21	72	5.5
392.28	395.33	3.05	3.12	102	1.62	53	5.5
395.33	398.37	3.04	3.01	99	1.92	63	5.5
398.37	401.42	3.05	2.70	89	1.77	58	5.5
401.42	404.47	3.05	2.96	97	1.84	60	5.5
404.47	407.52	3.05	2.97	97	2.17	71	5.5
407.52	410.57	3.05	2.82	92	2.13	70	5.5
410.57	413.61	3.04	3.19	105	2.29	75	5.5
413.61	416.66	3.05	3.33	109	1.65	54	5.5
416.66	419.71	3.05	2.91	95	1.87	61	5.5
419.71	422.76	3.05	2.68	88	1.74	57	5.5
422.76	425.81	3.05	3.20	105	2.31	76	5.0
425.81	428.85	3.04	3.18	105	2.12	70	5.5
428.85	431.90	3.05	2.96	97	0.80	26	5.0
431.90	434.95	3.05	2.94	96	1.77	58	5.5
434.95	438.00	3.05	2.96	97	2.55	84	5.5
438.00	441.05	3.05	3.00	98	2.84	93	5.5
441.05	444.09	3.04	2.97	98	2.50	82	5.5
444.09	447.14	3.05	2.94	96	1.75	57	5.5
447.14	453.24	6.10	3.16	52	0.79	13	5.0
453.24	456.29	3.05	2.78	91	1.13	37	5.0
456.29	459.33	3.04	3.11	102	1.52	50	5.5
459.33	462.38	3.05	2.90	95	1.16	38	5.5
462.38	465.43	3.05	3.24	106	0.65	21	5.0
465.43	468.48	3.05	3.02	99	1.27	42	5.0
468.48	471.53	3.05	3.16	104	1.44	47	5.0
471.53	474.57	3.04	3.13	103	2.25	74	5.5
474.57	477.62	3.05	3.09	101	0.77	25	5.0
477.62	480.67	3.05	3.08	101	2.41	79	5.5
480.67	483.72	3.05	3.08	101	2.06	68	5.5
483.72	486.77	3.05	2.88	94	2.10	69	5.5
486.77	488.59	1.82	1.86	102	0.85	47	5.0
488.59	489.81	1.22	1.23	101	1.12	92	5.5
489.81	492.86	3.05	3.19	105	2.23	73	5.0
492.86	495.91	3.05	3.21	105	1.23	40	5.0
495.91	498.96	3.05	2.59	85	0.92	30	5.5
498.96	502.01	3.05	3.19	105	1.26	41	4.5

Date: November 3,2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-54B

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	15.85	15.85	1.20	8	0.87	5	4.0
15.85	17.37	1.52	0.70	46	0.10	7	3.0
17.37	18.90	1.53	1.48	97	0.15	10	3.0
18.90	20.42	1.52	1.41	93	0.00	0	3.0
20.42	21.95	1.53	1.04	68	0.10	7	3.0
21.95	23.47	1.52	1.23	81	0.10	7	3.0
23.47	24.99	1.52	1.39	91	0.00	0	3.0
24.99	26.52	1.53	0.90	59	0.22	14	4.0
26.52	28.04	1.52	0.98	64	0.14	9	3.0
28.04	29.57	1.53	0.92	60	0.10	7	3.0
29.57	31.09	1.52	1.06	70	0.21	14	3.0
31.09	32.61	1.52	0.46	30	0.00	0	3.0
32.61	34.14	1.53	0.90	59	0.00	0	3.0
34.14	35.66	1.52	0.48	32	0.00	0	3.0
35.66	37.19	1.53	0.23	15	0.00	0	3.0
37.19	38.71	1.52	0.85	56	0.00	0	3.0
38.71	40.24	1.53	0.82	54	0.10	7	3.0
40.24	41.76	1.52	0.52	34	0.00	0	3.0
41.76	42.38	0.62	0.46	74	0.00	0	3.0
42.38	44.81	2.43	0.40	16	0.00	0	3.0
44.81	46.33	1.52	0.93	61	0.00	0	3.0
46.33	47.85	1.52	0.16	11	0.00	0	3.0
47.85	49.38	1.53	0.51	33	0.00	0	2.0
49.38	50.90	1.52	0.32	21	0.00	0	2.0
50.90	52.43	1.53	0.61	40	0.00	0	2.0
52.43	53.95	1.52	0.30	20	0.00	0	2.0
53.95	55.47	1.52	0.14	9	0.00	0	4.0
55.47	57.00	1.53	0.19	12	0.00	0	4.0
57.00	58.82	1.82	0.12	7	0.00	0	5.0
58.82	60.05	1.23	0.16	13	0.00	0	5.0
60.05	61.57	1.52	0.15	10	0.00	0	5.0
61.57	63.09	1.52	0.27	18	0.00	0	5.0
63.09	64.62	1.53	0.60	39	0.00	0	5.0
64.62	66.14	1.52	0.15	10	0.00	0	5.0
66.14	67.67	1.53	0.14	9	0.00	0	5.0
67.67	69.19	1.52	0.03	2	0.00	0	5.0
69.19	70.71	1.52	0.00	0	0.00	0	0.0
70.71	72.24	1.53	0.00	0	0.00	0	0.0
72.24	73.76	1.52	0.00	0	0.00	0	0.0
73.76	75.29	1.53	0.00	0	0.00	0	0.0
75.29	76.81	1.52	0.00	0	0.00	0	0.0
76.81	78.33	1.52	0.29	19	0.00	0	4.0
78.33	79.86	1.53	0.00	0	0.00	0	0.0
79.86	81.38	1.52	0.35	23	0.00	0	3.0
81.38	82.91	1.53	0.39	25	0.00	0	4.0
82.91	84.43	1.52	0.20	13	0.00	0	4.0
84.43	85.95	1.52	0.38	25	0.00	0	4.0
85.95	87.48	1.53	0.34	22	0.00	0	4.0
87.48	89.00	1.52	0.36	24	0.00	0	4.0
89.00	90.53	1.53	0.51	33	0.17	11	4.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
90.53	92.05	1.52	0.45	30	0.00	0	4.0
92.05	93.57	1.52	0.79	52	0.11	7	5.0
93.57	95.10	1.53	0.69	45	0.00	0	4.0
95.10	96.92	1.82	0.44	24	0.00	0	4.0
96.92	98.15	1.23	0.81	66	0.00	0	5.0
98.15	101.19	3.04	0.42	14	0.10	3	5.0
101.19	102.71	1.52	0.46	30	0.00	0	5.0
102.71	104.24	1.53	0.42	27	0.00	0	5.0
104.24	105.77	1.53	0.81	53	0.00	0	5.0
105.77	107.29	1.52	0.99	65	0.10	7	5.0
107.29	108.81	1.52	0.21	14	0.00	0	5.0
108.81	110.34	1.53	0.24	16	0.00	0	4.0
110.34	111.86	1.52	0.91	60	0.00	0	4.0
111.86	113.39	1.53	1.46	95	0.81	53	3.0
113.39	114.91	1.52	1.21	80	0.24	16	3.0
114.91	116.43	1.52	1.14	75	0.00	0	3.0
116.43	117.96	1.53	1.26	82	0.47	31	3.0
117.96	119.48	1.52	1.10	72	0.42	28	3.0
119.48	121.01	1.53	1.17	76	0.54	35	3.0
121.01	122.53	1.52	0.87	57	0.54	36	3.0
122.53	124.05	1.52	0.29	19	0.11	7	3.0
124.05	125.58	1.53	0.48	31	0.12	8	3.0
125.58	127.10	1.52	0.06	4	0.00	0	3.0
127.10	128.63	1.53	0.30	20	0.00	0	3.0
128.63	130.15	1.52	1.03	68	0.44	29	3.0
130.15	131.67	1.52	1.14	75	0.71	47	3.0
131.67	133.02	1.35	1.31	97	0.92	68	3.0
133.02	134.72	1.70	1.23	72	0.74	44	3.0
134.72	136.25	1.53	1.42	93	0.53	35	3.0
136.25	139.29	3.04	1.65	54	0.25	8	3.0
139.29	140.82	1.53	0.56	37	0.11	7	3.0
140.82	142.34	1.52	0.41	27	0.00	0	3.0
142.34	143.87	1.53	0.56	37	0.00	0	4.0
143.87	145.39	1.52	0.19	13	0.00	0	4.0
145.39	146.95	1.56	0.11	7	0.00	0	4.0
146.95	148.44	1.49	0.08	5	0.00	0	4.0
148.44	149.96	1.52	0.10	7	0.00	0	4.0
149.96	157.58	7.62	0.18	2	0.00	0	5.0
157.58	160.63	3.05	0.27	9	0.00	0	5.0
160.63	163.98	3.35	0.59	18	0.00	0	5.0
163.98	165.20	1.22	0.13	11	0.00	0	4.0
165.20	166.73	1.53	0.28	18	0.00	0	4.0
166.73	167.64	0.91	0.28	31	0.00	0	4.0
167.64	168.25	0.61	0.25	41	0.00	0	4.0
168.25	169.77	1.52	1.05	69	0.00	0	4.0
169.77	171.30	1.53	0.43	28	0.00	0	4.0
171.30	172.82	1.52	0.57	38	0.00	0	4.0
172.82	174.35	1.53	0.51	33	0.00	0	4.0
174.35	175.87	1.52	0.97	64	0.00	0	4.0
175.87	177.39	1.52	0.64	42	0.00	0	4.0
177.39	178.92	1.53	1.21	79	0.48	31	4.0
178.92	180.44	1.52	1.13	74	0.84	55	5.0
180.44	181.97	1.53	1.88	123	1.68	110	4.0
181.97	185.01	3.04	2.86	94	2.35	77	4.0
185.01	188.06	3.05	2.92	96	2.48	81	4.0
188.06	191.11	3.05	3.01	99	3.00	98	4.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
191.11	194.16	3.05	3.03	99	2.68	88	4.0
194.16	197.21	3.05	3.04	100	2.72	89	4.0
197.21	200.25	3.04	3.05	100	2.84	94	4.0
200.25	203.30	3.05	2.98	98	2.84	93	4.0
203.30	206.35	3.05	2.79	91	2.43	80	4.0
206.35	209.40	3.05	2.94	96	2.22	73	4.0
209.40	212.43	3.03	3.06	101	2.70	89	3.0
212.43	215.49	3.06	2.99	98	2.96	97	3.0
215.49	218.54	3.05	3.08	101	3.04	100	3.0
218.54	221.59	3.05	3.06	100	3.00	98	4.0
221.59	224.64	3.05	2.95	97	2.65	87	3.0
224.64	227.69	3.05	3.03	99	2.25	74	3.0
227.69	230.73	3.04	3.09	102	2.75	90	3.0
230.73	233.78	3.05	3.09	101	2.71	89	3.0
233.78	236.83	3.05	3.02	99	2.61	86	3.0
236.83	239.88	3.05	2.98	98	2.92	96	3.0
239.88	242.93	3.05	3.00	98	2.91	95	3.0
242.93	245.97	3.04	3.04	100	2.76	91	3.0
245.97	249.02	3.05	2.98	98	2.84	93	3.0
249.02	252.07	3.05	2.94	96	2.89	95	3.0
252.07	255.12	3.05	3.01	99	2.94	96	3.0
255.12	258.17	3.05	2.28	75	1.27	42	4.0
258.17	261.21	3.04	2.91	96	2.62	86	4.0
261.21	264.26	3.05	3.09	101	2.53	83	4.0
264.26	267.31	3.05	2.48	81	2.05	67	4.0
267.31	270.36	3.05	2.69	88	2.10	69	4.0
270.36	273.71	3.35	2.98	89	2.84	85	4.0
273.71	276.45	2.74	2.97	108	2.28	83	4.0
276.45	279.50	3.05	3.04	100	2.91	95	4.0
279.50	282.55	3.05	3.02	99	2.70	89	4.0
282.55	285.60	3.05	2.94	96	2.45	80	4.0
285.60	288.05	2.45	2.42	99	1.86	76	4.0
288.05	291.08	3.03	3.16	104	2.12	70	4.0
291.08	294.13	3.05	3.07	101	2.26	74	4.0
294.13	297.18	3.05	3.05	100	2.91	95	5.0
297.18	297.79	0.61	0.71	116	0.23	38	4.0
297.79	300.84	3.05	3.05	100	1.97	65	4.0
300.84	303.89	3.05	3.10	102	1.32	43	4.0
303.89	306.93	3.04	3.08	101	2.23	73	4.0
306.93	309.68	2.75	1.98	72	1.04	38	4.0
309.68	309.98	0.30	0.00	0	0.00	0	0.0
309.98	314.55	4.57	0.95	21	0.10	2	3.0
314.55	317.60	3.05	3.09	101	1.60	52	4.0
317.60	319.13	1.53	1.74	114	1.29	84	4.0
319.13	322.17	3.04	3.12	103	1.15	38	4.0
322.17	325.22	3.05	3.10	102	2.31	76	4.0
325.22	328.27	3.05	3.01	99	1.69	55	4.0
328.27	331.32	3.05	2.77	91	2.22	73	4.0
331.32	334.37	3.05	2.85	93	2.64	87	5.0
334.37	337.41	3.04	2.93	96	2.42	80	5.0
337.41	340.46	3.05	2.56	84	2.08	68	5.0
340.46	341.99	1.53	0.73	48	0.22	14	4.0
341.99	343.51	1.52	1.35	89	0.84	55	4.0
343.51	346.56	3.05	2.95	97	2.30	75	4.0
346.56	349.61	3.05	2.15	70	1.25	41	4.0
349.61	352.67	3.06	1.66	54	1.24	41	4.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
352.67	355.09	2.42	2.38	98	1.35	56	4.0
355.09	355.70	0.61	0.74	121	0.10	16	3.0
355.70	358.75	3.05	3.08	101	1.97	65	3.0
358.75	360.58	1.83	2.09	114	0.70	38	3.0
360.58	363.32	2.74	2.78	101	2.30	84	4.0
363.32	364.85	1.53	1.55	101	1.34	88	4.0
364.85	367.89	3.04	3.00	99	1.86	61	4.0
367.89	370.94	3.05	2.85	93	2.17	71	5.0
370.94	373.99	3.05	2.94	96	1.85	61	5.0
373.99	377.04	3.05	2.97	97	1.58	52	5.0
377.04	380.09	3.05	3.02	99	2.26	74	5.0
380.09	383.13	3.04	2.99	98	2.08	68	5.0
383.13	386.18	3.05	3.00	98	1.80	59	5.0
386.18	389.23	3.05	2.96	97	1.52	50	5.0
389.23	392.28	3.05	2.82	92	2.10	69	4.0
392.28	395.33	3.05	3.01	99	1.44	47	4.0
395.33	398.37	3.04	3.39	112	2.44	80	4.0
398.37	401.12	2.75	2.90	105	2.27	83	4.0
401.12	404.47	3.35	3.08	92	0.93	28	4.0
404.47	407.52	3.05	2.73	90	1.19	39	4.0
407.52	410.57	3.05	2.94	96	0.66	22	4.0
410.57	413.61	3.04	2.92	96	1.61	53	4.0
413.61	416.66	3.05	3.07	101	0.58	19	4.0
416.66	419.71	3.05	2.81	92	1.24	41	4.0
419.71	422.76	3.05	2.93	96	1.65	54	5.0
422.76	425.81	3.05	2.24	73	0.35	11	5.0
425.81	427.89	2.08	2.44	117	0.91	44	5.0
427.89	430.38	2.49	2.99	120	2.30	92	5.0
430.38	433.43	3.05	2.98	98	1.44	47	5.0
433.43	436.47	3.04	2.98	98	1.80	59	5.0
436.47	439.52	3.05	3.07	101	2.26	74	5.0
439.52	442.57	3.05	3.06	100	2.51	82	5.0
442.57	445.62	3.05	3.02	99	2.65	87	5.0
445.62	448.67	3.05	3.03	99	2.57	84	5.0
448.67	451.71	3.04	2.97	98	2.83	93	5.0
451.71	453.24	1.53	1.49	97	1.31	86	5.0
453.24	454.46	1.22	1.23	101	0.52	43	5.0
454.46	456.29	1.83	2.94	161	2.70	148	5.0
456.29	459.32	3.03	3.02	100	1.81	60	5.0
459.32	462.38	3.06	2.94	96	1.95	64	5.0
462.38	465.43	3.05	2.94	96	2.02	66	5.0
465.43	468.47	3.04	3.07	101	1.71	56	5.0
468.47	471.53	3.06	3.06	100	1.93	63	5.0
471.53	474.57	3.04	2.99	98	1.37	45	5.0
474.57	477.62	3.05	2.94	96	1.07	35	4.0
477.62	480.67	3.05	3.04	100	0.97	32	5.0
480.67	483.72	3.05	3.30	108	1.43	47	5.0
483.72	486.77	3.05	2.57	84	0.98	32	5.0
486.77	489.81	3.04	3.03	100	0.61	20	5.0
489.81	492.86	3.05	3.02	99	2.40	79	5.0
492.86	495.91	3.05	3.01	99	2.58	85	5.0
495.91	498.96	3.05	3.03	99	1.05	34	4.0
498.96	502.01	3.05	3.04	100	1.72	56	4.0
502.01	505.05	3.04	3.02	99	1.30	43	5.0
505.05	508.10	3.05	2.97	97	0.96	31	5.0
508.10	511.15	3.05	3.05	100	2.47	81	5.0

Date: 16-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-55

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	6.71	6.71	0.93	14	0.10	1	4.0
6.71	9.75	3.04	2.71	89	0.13	4	4.0
9.75	12.80	3.05	3.36	110	0.54	18	3.5
12.80	14.73	1.93	1.43	74	0.27	14	3.5
14.73	15.85	1.12	1.51	135	0.78	70	4.0
15.85	17.37	1.52	1.46	96	0.37	24	4.0
17.37	19.90	2.53	1.38	55	0.50	20	4.0
19.90	20.42	0.52	1.99	383	0.30	58	4.0
20.42	21.95	1.53	1.23	80	0.20	13	4.0
21.95	23.47	1.52	1.63	107	0.20	13	4.0
23.47	24.69	1.22	1.33	109	0.00	0	4.0
24.69	26.21	1.52	1.80	118	0.00	0	3.5
26.21	27.74	1.53	1.72	112	0.37	24	4.0
27.74	29.26	1.52	1.32	87	0.67	44	4.0
29.26	30.78	1.52	1.47	97	0.45	30	4.0
30.78	32.31	1.53	1.54	101	0.74	48	4.0
32.31	33.83	1.52	1.56	103	0.10	7	4.0
33.83	35.36	1.53	1.57	103	0.00	0	4.0
35.36	36.27	0.91	1.20	132	0.00	0	4.0
36.27	40.27	4.00	1.32	33	0.00	0	4.0
40.27	41.45	1.18	0.95	81	0.00	0	4.0
41.45	42.37	0.92	0.65	71	0.00	0	4.0
42.37	43.89	1.52	0.40	26	0.00	0	3.5
43.89	46.33	2.44	1.36	56	0.00	0	4.0
46.33	49.33	3.00	0.20	7	0.00	0	3.5
49.33	52.43	3.10	2.10	68	0.13	4	4.0
52.43	55.47	3.04	3.05	100	0.00	0	3.0
55.47	58.52	3.05	3.25	107	0.00	0	3.0
58.52	61.57	3.05	2.70	89	0.10	3	2.5
61.57	62.67	1.10	6.51	592	0.00	0	2.5
62.67	70.91	8.24	3.00	36	0.00	0	2.5
70.91	73.76	2.85	2.72	95	0.00	0	2.5
73.76	76.81	3.05	3.30	108	0.00	0	2.0
76.81	79.86	3.05	2.41	79	0.00	0	2.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
79.86	81.38	1.52	1.69	111	0.00	0	2.0
81.38	82.91	1.53	2.36	154	0.00	0	2.5
82.91	85.95	3.04	1.21	40	0.00	0	3.0
85.95	89.00	3.05	1.88	62	0.00	0	3.0
89.00	92.05	3.05	2.44	80	0.00	0	3.5
92.05	95.15	3.10	0.83	27	0.00	0	3.5
95.15	98.15	3.00	1.97	66	0.00	0	4.0
98.15	99.67	1.52	1.36	89	0.92	61	4.0
99.67	102.72	3.05	3.05	100	2.43	80	4.0
102.72	105.77	3.05	3.04	100	2.18	71	4.0
105.77	108.81	3.04	3.06	101	2.23	73	4.0
108.81	111.86	3.05	3.02	99	1.94	64	4.0
111.86	114.91	3.05	2.98	98	1.73	57	4.0
114.91	117.96	3.05	3.06	100	2.70	89	4.0
117.96	121.01	3.05	3.00	98	1.72	56	4.0
121.01	124.05	3.04	3.04	100	1.95	64	4.0
124.05	127.10	3.05	2.83	93	1.69	55	4.0
127.10	130.15	3.05	3.02	99	2.06	68	4.0
130.15	133.20	3.05	2.81	92	1.58	52	4.0
133.20	136.25	3.05	2.82	92	1.52	50	4.0
136.25	139.29	3.04	3.02	99	2.05	67	4.0
139.29	142.34	3.05	3.03	99	1.68	55	4.0
142.34	145.39	3.05	2.92	96	1.98	65	4.0
145.39	148.44	3.05	3.02	99	1.93	63	4.0
148.44	151.49	3.05	3.04	100	2.13	70	4.0
151.49	154.63	3.14	2.97	95	2.30	73	4.0
154.63	157.58	2.95	3.04	103	2.10	71	4.0
157.58	160.63	3.05	3.01	99	2.10	69	4.0
160.63	163.68	3.05	3.07	101	2.64	87	4.0
163.68	166.73	3.05	3.05	100	2.30	75	4.0
166.73	169.77	3.04	2.85	94	2.26	74	4.0
169.77	172.82	3.05	2.80	92	2.18	71	4.0
172.82	175.87	3.05	2.95	97	2.12	70	4.0
175.87	178.92	3.05	3.05	100	2.05	67	4.0
178.92	181.97	3.05	3.09	101	2.34	77	5.0
181.97	185.01	3.04	3.08	101	2.29	75	5.0
185.01	188.06	3.05	3.26	107	2.07	68	5.0
188.06	191.11	3.05	2.95	97	2.16	71	5.0
191.11	194.16	3.05	3.12	102	1.98	65	4.5
194.16	197.21	3.05	2.92	96	2.10	69	5.0
197.21	200.25	3.04	3.12	103	2.50	82	5.5
200.25	203.30	3.05	2.92	96	2.24	73	5.0
203.30	206.35	3.05	3.23	106	2.77	91	5.5
206.35	209.40	3.05	2.99	98	2.58	85	5.5
209.40	212.45	3.05	3.04	100	2.44	80	5.0
212.45	215.49	3.04	3.07	101	2.03	67	5.0
215.49	218.54	3.05	2.96	97	2.13	70	5.0
218.54	221.59	3.05	3.08	101	1.78	58	4.5
221.59	224.64	3.05	2.99	98	1.96	64	4.5
224.64	227.69	3.05	3.05	100	2.30	75	5.0
227.69	230.73	3.04	2.85	94	1.10	36	4.0
230.73	233.78	3.05	3.11	102	1.85	61	4.5
233.78	236.52	2.74	2.98	109	2.40	88	5.0
236.52	239.88	3.36	3.06	91	1.76	52	4.5
239.88	242.93	3.05	3.09	101	2.09	69	5.0
242.93	245.97	3.04	3.07	101	2.30	76	5.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
245.97	249.02	3.05	2.93	96	1.24	41	4.0
249.02	252.07	3.05	3.08	101	1.69	55	4.0
252.07	255.12	3.05	2.82	92	0.22	7	3.0
255.12	258.17	3.05	3.14	103	0.75	25	3.0
258.17	261.21	3.04	3.01	99	0.72	24	3.0
261.21	264.26	3.05	3.08	101	2.34	77	5.0
264.26	267.31	3.05	3.00	98	2.69	88	5.0
267.31	270.36	3.05	3.11	102	1.65	54	4.5
270.36	273.41	3.05	2.90	95	2.36	77	5.0
273.41	276.45	3.04	3.16	104	2.15	71	5.0
276.45	279.50	3.05	3.03	99	2.20	72	5.0
279.50	282.55	3.05	3.06	100	1.72	56	4.5
282.55	285.60	3.05	2.97	97	2.84	93	6.0
285.60	288.65	3.05	3.17	104	2.47	81	5.5
288.65	291.69	3.04	2.90	95	2.50	82	5.5
291.69	294.74	3.05	3.12	102	2.53	83	5.0
294.74	300.84	6.10	6.30	103	5.53	91	5.0
300.84	306.93	6.09	6.07	100	5.70	94	5.0
306.93	313.03	6.10	6.08	100	5.60	92	5.5
313.03	319.13	6.10	6.08	100	5.53	91	4.0
319.13	325.22	6.09	6.08	100	5.48	90	4.0
325.22	331.32	6.10	5.98	98	2.70	44	4.0
331.32	335.58	4.26	3.91	92	3.55	83	5.0
335.58	341.99	6.41	6.29	98	2.80	44	4.0
341.99	346.86	4.87	4.63	95	4.26	87	5.0
346.86	353.26	6.40	6.48	101	4.78	75	5.0
353.26	355.70	2.44	2.62	107	1.28	52	4.5
355.70	358.75	3.05	3.11	102	1.70	56	5.0
358.75	361.80	3.05	2.70	89	0.91	30	4.5
361.80	364.85	3.05	3.14	103	2.02	66	5.0
364.85	367.89	3.04	2.86	94	2.44	80	5.0
367.89	370.94	3.05	3.07	101	2.89	95	5.0
370.94	373.99	3.05	2.95	97	1.01	33	3.5
373.99	377.04	3.05	2.90	95	2.20	72	3.5
377.04	380.09	3.05	2.56	84	1.59	52	4.0
380.09	383.13	3.04	2.82	93	1.20	39	4.0
383.13	386.18	3.05	2.50	82	1.48	49	4.0
386.18	389.23	3.05	3.06	100	2.03	67	4.0
389.23	392.28	3.05	2.90	95	2.38	78	3.0
392.28	395.33	3.05	3.08	101	2.23	73	4.0
395.33	398.37	3.04	2.67	88	1.96	64	4.0
398.37	401.42	3.05	3.00	98	2.32	76	4.0
401.42	404.47	3.05	2.89	95	1.28	42	3.0
404.47	407.52	3.05	2.78	91	1.71	56	3.0
407.52	410.57	3.05	2.97	97	2.32	76	3.0
410.57	413.61	3.04	2.83	93	1.51	50	3.5
413.61	416.66	3.05	2.50	82	1.51	50	3.0
416.66	419.37	2.71	2.36	87	1.62	60	3.0
419.37	422.76	3.39	2.55	75	0.85	25	3.0
422.76	425.81	3.05	3.07	101	2.40	79	4.0
425.81	431.90	6.09	6.04	99	5.12	84	5.0
431.90	438.00	6.10	6.23	102	5.25	86	5.0
438.00	442.87	4.87	5.22	107	2.63	54	4.0
442.87	448.97	6.10	5.92	97	4.60	75	5.0
448.97	451.71	2.74	2.51	92	1.58	58	4.0
451.71	453.24	1.53	1.64	107	1.22	80	4.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
453.24	456.29	3.05	3.00	98	2.43	80	4.0
456.29	459.33	3.04	2.82	93	2.43	80	4.0
459.33	462.38	3.05	3.03	99	2.11	69	4.5
462.38	465.43	3.05	2.96	97	1.92	63	5.0
465.43	468.48	3.05	3.02	99	2.21	72	5.0
468.48	471.53	3.05	2.70	89	1.80	59	5.0
471.53	474.57	3.04	3.05	100	2.26	74	4.0
474.57	477.62	3.05	2.65	87	1.19	39	4.0
477.62	480.67	3.05	2.80	92	0.71	23	4.0
480.67	483.72	3.05	3.02	99	0.49	16	4.0
483.72	486.77	3.05	3.00	98	0.71	23	4.0
486.77	489.81	3.04	3.02	99	0.27	9	4.0
489.81	492.86	3.05	3.04	100	1.61	53	4.0
492.86	495.91	3.05	2.95	97	2.13	70	4.0
495.91	498.96	3.05	3.01	99	2.04	67	4.0
498.96	502.01	3.05	2.92	96	1.05	34	4.0
502.01	505.05	3.04	2.80	92	0.35	12	3.5
505.05	508.10	3.05	2.85	93	0.33	11	3.5
508.10	513.59	5.49	5.20	95	0.77	14	3.5
513.59	519.99	6.40	6.58	103	0.61	10	3.5
519.99	523.04	3.05	3.00	98	0.74	24	3.5
523.04	524.56	1.52	1.39	91	0.10	7	3.5
524.56	525.17	0.61	0.61	100	0.10	16	3.5
525.17	531.53	6.36	6.43	101	0.22	3	3.5
531.53	532.49	0.96	0.79	82	0.00	0	3.5
532.49	535.53	3.04	2.78	91	0.47	15	4.0
535.53	538.58	3.05	2.57	84	0.61	20	4.0
538.58	541.63	3.05	2.59	85	0.55	18	4.0
541.63	544.68	3.05	2.91	95	0.50	16	4.0
544.68	547.73	3.05	2.62	86	0.85	28	4.0
547.73	550.77	3.04	2.88	95	0.40	13	4.0
550.77	553.82	3.05	2.71	89	0.55	18	4.0
553.82	556.87	3.05	3.02	99	0.52	17	4.0
556.87	559.92	3.05	3.00	98	1.10	36	4.0
559.92	562.97	3.05	2.80	92	1.40	46	4.0
562.97	566.01	3.04	2.47	81	0.40	13	4.0
566.01	567.54	1.53	1.28	84	0.46	30	4.0
567.54	572.11	4.57	4.11	90	1.70	37	4.0

Date: 21-Oct-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-56

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
0.00	5.49	5.49	1.07	19	0.13	2	4.0
5.49	8.53	3.04	2.84	93	1.65	54	4.0
8.53	9.14	0.61	2.07	339	0.61	100	4.0
9.14	12.50	3.36	1.59	47	0.52	15	4.0
12.50	15.54	3.04	2.81	92	1.97	65	4.0
15.54	18.59	3.05	2.57	84	1.73	57	4.0
18.59	21.64	3.05	2.56	84	0.60	20	4.0
21.64	24.69	3.05	2.57	84	1.11	36	4.0
24.69	27.74	3.05	2.84	93	1.92	63	3.5
27.74	30.78	3.04	2.78	91	1.60	53	3.5
30.78	33.83	3.05	2.88	94	1.68	55	3.5
33.83	36.88	3.05	2.81	92	1.34	44	4.0
36.88	39.93	3.05	2.78	91	1.68	55	4.0
39.93	42.98	3.05	2.80	92	0.98	32	4.0
42.98	46.02	3.04	2.77	91	1.08	36	4.0
46.02	49.07	3.05	2.53	83	0.90	30	4.0
49.07	52.12	3.05	2.35	77	0.77	25	4.0
52.12	55.17	3.05	2.64	87	0.74	24	4.0
55.17	58.22	3.05	2.75	90	0.84	28	4.0
58.22	61.25	3.03	2.68	88	1.01	33	4.0
61.25	62.79	1.54	0.96	62	0.31	20	4.0
62.79	64.31	1.52	1.26	83	0.21	14	4.0
64.31	67.36	3.05	2.85	93	2.18	71	4.0
67.36	70.41	3.05	2.64	87	0.83	27	4.0
70.41	73.46	3.05	2.65	87	1.50	49	4.0
73.46	76.50	3.04	2.91	96	2.00	66	4.0
76.50	79.55	3.05	2.52	83	0.70	23	4.0
79.55	82.60	3.05	2.73	90	2.05	67	4.0
82.60	85.65	3.05	2.88	94	1.96	64	4.0
85.65	88.70	3.05	2.68	88	2.06	68	4.0
88.70	91.74	3.04	2.65	87	1.35	44	4.0
91.74	94.79	3.05	2.63	86	1.93	63	4.0
94.79	97.34	2.55	2.73	107	2.03	80	4.0
97.34	100.89	3.55	2.64	74	1.07	30	4.0
100.89	102.41	1.52	1.38	91	0.32	21	4.0
102.41	105.46	3.05	2.65	87	1.45	48	4.0
105.46	108.51	3.05	3.05	100	2.52	83	5.0
108.51	112.47	3.96	3.90	98	2.82	71	4.0
112.47	114.60	2.13	2.02	95	1.34	63	4.0
114.60	117.65	3.05	2.71	89	1.03	34	4.0
117.65	120.70	3.05	2.93	96	2.22	73	4.0
120.70	123.35	2.65	2.86	108	2.20	83	4.0
123.35	127.41	4.06	4.08	100	3.54	87	5.0
127.41	130.76	3.35	3.00	90	2.61	78	5.0
130.76	133.81	3.05	2.98	98	1.95	64	5.0
133.81	136.86	3.05	2.71	89	1.90	62	4.0
136.86	139.90	3.04	3.00	99	2.42	80	4.0
139.90	142.95	3.05	3.01	99	2.51	82	5.0
142.95	146.61	3.66	3.34	91	2.85	78	5.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
146.61	149.66	3.05	2.97	97	1.70	56	3.5
149.66	152.70	3.04	2.96	97	2.49	82	4.0
152.70	154.13	1.43	1.46	102	1.17	82	3.5
154.13	155.45	1.32	1.00	76	0.36	27	3.5
155.45	158.80	3.35	3.34	100	2.10	63	4.0
158.80	161.85	3.05	2.85	93	2.45	80	4.5
161.85	164.90	3.05	2.97	97	2.18	71	5.0
164.90	167.94	3.04	2.71	89	1.77	58	5.0
167.94	170.99	3.05	3.01	99	2.19	72	5.0
170.99	174.04	3.05	2.98	98	2.24	73	4.0
174.04	177.09	3.05	2.83	93	2.50	82	5.0
177.09	178.61	1.52	1.16	76	0.63	41	5.0
178.61	181.66	3.05	2.63	86	2.00	66	5.0
181.66	183.49	1.83	1.74	95	0.80	44	3.0
183.49	185.32	1.83	1.56	85	0.39	21	4.0
185.32	188.06	2.74	2.60	95	2.30	84	4.0
188.06	189.28	1.22	0.87	71	0.50	41	4.0
189.28	192.33	3.05	3.00	98	2.03	67	5.0
192.33	195.38	3.05	2.71	89	1.77	58	5.0
195.38	198.42	3.04	3.08	101	1.51	50	5.0
198.42	201.47	3.05	2.79	91	1.36	45	6.0
201.47	203.00	1.53	1.20	78	0.56	37	5.0
203.00	206.04	3.04	3.00	99	2.25	74	5.0
206.04	208.48	2.44	2.23	91	1.68	69	5.0
208.48	210.62	2.14	2.18	102	1.71	80	5.0
210.62	213.66	3.04	2.91	96	2.35	77	4.0
213.66	216.71	3.05	3.00	98	2.37	78	5.0
216.71	219.76	3.05	3.02	99	2.44	80	5.0
219.76	222.81	3.05	3.01	99	2.20	72	5.0
222.81	225.86	3.05	2.98	98	2.51	82	5.0
225.86	228.90	3.04	3.04	100	2.83	93	5.0
228.90	231.95	3.05	2.78	91	2.65	87	5.0
231.95	235.00	3.05	2.88	94	2.16	71	5.0
235.00	238.05	3.05	2.84	93	2.15	70	4.0
238.05	241.10	3.05	3.09	101	2.51	82	4.0
241.10	244.14	3.04	2.93	96	1.91	63	5.0
244.14	247.19	3.05	2.82	92	1.76	58	4.0
247.19	250.24	3.05	2.90	95	1.54	50	5.0
250.24	253.29	3.05	2.65	87	0.58	19	4.0
253.29	256.34	3.05	2.82	92	1.59	52	4.0
256.34	259.38	3.04	2.55	84	1.34	44	5.0
259.38	262.43	3.05	2.84	93	0.65	21	4.0
262.43	265.48	3.05	2.55	84	0.57	19	5.0
265.48	270.05	4.57	3.84	84	0.49	11	4.0
270.05	274.93	4.88	4.09	84	0.48	10	5.0
274.93	277.67	2.74	2.68	98	2.09	76	4.0
277.67	280.72	3.05	2.89	95	2.13	70	4.0
280.72	283.77	3.05	3.01	99	2.32	76	4.0
283.77	286.82	3.05	3.00	98	2.28	75	4.0
286.82	289.86	3.04	2.98	98	2.48	82	5.0
289.86	292.91	3.05	2.82	92	1.81	59	5.0
292.91	295.96	3.05	3.04	100	1.83	60	5.0
295.96	299.01	3.05	3.06	100	1.57	51	4.0
299.01	302.06	3.05	3.09	101	2.19	72	5.0
302.06	305.10	3.04	3.08	101	1.71	56	5.0
305.10	308.15	3.05	2.92	96	2.33	76	5.0

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
308.15	311.20	3.05	2.91	95	2.34	77	5.0
311.20	314.25	3.05	3.06	100	2.75	90	5.0
314.25	317.30	3.05	2.70	89	0.84	28	4.0
317.30	320.34	3.04	2.92	96	0.77	25	5.0
320.34	323.39	3.05	3.07	101	2.65	87	5.0
323.39	326.44	3.05	3.04	100	2.80	92	5.0
326.44	329.49	3.05	2.99	98	2.94	96	5.0
329.49	332.54	3.05	2.89	95	1.25	41	5.0
332.54	335.58	3.04	3.08	101	1.74	57	5.0
335.58	338.63	3.05	3.07	101	2.38	78	5.0
338.63	341.68	3.05	3.09	101	2.67	88	5.0
341.68	344.73	3.05	3.05	100	2.23	73	5.0
344.73	346.25	1.52	1.40	92	1.05	69	5.0
346.25	351.13	4.88	4.74	97	4.14	85	5.0
351.13	355.70	4.57	4.46	98	2.75	60	4.0
355.70	359.66	3.96	3.78	95	1.82	46	3.0
359.66	364.24	4.58	4.50	98	3.86	84	5.0
364.24	368.81	4.57	4.89	107	4.26	93	5.0
368.81	373.68	4.87	4.78	98	3.65	75	4.0
373.68	378.56	4.88	4.74	97	3.69	76	5.0
378.56	383.13	4.57	4.51	99	3.74	82	5.0
383.13	386.79	3.66	4.42	121	3.20	87	5.0
386.79	391.67	4.88	4.98	102	4.15	85	55.0
391.67	396.24	4.57	5.08	111	3.41	75	3.0
396.24	401.12	4.88	4.83	99	3.94	81	4.0
401.12	405.99	4.87	4.97	102	4.22	87	5.0
405.99	410.57	4.58	4.80	105	3.23	71	5.0
410.57	413.31	2.74	2.70	99	1.86	68	5.0
413.31	416.66	3.35	3.10	93	2.71	81	5.0
416.66	420.32	3.66	3.71	101	3.13	86	5.0
420.32	424.81	4.49	4.52	101	3.69	82	4.0
424.81	428.85	4.04	3.96	98	2.61	65	44.0
428.85	431.29	2.44	2.47	101	1.97	81	5.0
431.29	434.95	3.66	3.60	98	3.22	88	5.0
434.95	439.52	4.57	4.75	104	4.49	98	5.0
439.52	444.40	4.88	4.97	102	4.34	89	5.0
444.40	449.58	5.18	4.98	96	4.50	87	5.0
449.58	454.46	4.88	5.07	104	4.23	87	5.0
454.46	459.33	4.87	5.15	106	3.57	73	4.0
459.33	464.21	4.88	4.89	100	4.44	91	5.0
464.21	466.95	2.74	2.50	91	2.48	91	6.0
466.95	471.83	4.88	4.79	98	3.83	78	5.0
471.83	476.71	4.88	4.81	99	2.86	59	4.0
476.71	481.58	4.87	4.73	97	4.20	86	5.0
481.58	486.46	4.88	4.77	98	3.97	81	5.0
486.46	491.34	4.88	4.99	102	4.06	83	5.0
491.34	496.21	4.87	4.94	101	4.21	86	5.0
496.21	502.01	5.80	5.85	101	5.51	95	5.0
502.01	506.88	4.87	5.22	107	4.20	86	5.0
506.88	511.76	4.88	4.93	101	4.61	94	5.0
511.76	517.25	5.49	5.21	95	3.77	69	4.0
517.25	522.12	4.87	4.84	99	3.94	81	5.0
522.12	527.30	5.18	4.79	92	3.96	76	4.0
527.30	532.18	4.88	5.09	104	3.56	73	5.0
532.18	537.06	4.88	4.86	100	1.94	40	5.0
537.06	541.93	4.87	4.61	95	2.89	59	5.0

Date: 4-Nov-2002

GEOTECHNICAL DRILLHOLE LOGGING DATA SHEET

Project Location/Hole KN-02-57

Interval (m)			Recovery		RQD		HARDNESS
From	To	Length	Meters	%	Meters	%	
6.27	6.71	0.44	0.42	95	0.00	0	4.0
6.71	8.23	1.52	0.98	64	0.00	0	4.0
8.23	9.75	1.52	1.28	84	0.48	32	4.0
9.75	11.28	1.53	1.29	84	0.37	24	4.0
11.28	12.80	1.52	1.66	109	0.98	64	4.0
12.80	14.38	1.58	1.34	85	0.11	7	4.0
14.38	15.85	1.47	1.42	97	0.71	48	4.0
15.85	17.37	1.52	1.57	103	0.28	18	4.0
17.37	18.90	1.53	1.37	90	0.94	61	4.0
18.90	20.42	1.52	1.47	97	0.77	51	4.0
20.42	21.95	1.53	1.10	72	0.68	44	4.0
21.95	23.47	1.52	1.55	102	1.04	68	4.0
23.47	24.99	1.52	1.50	99	1.06	70	4.0
24.99	26.52	1.53	1.54	101	0.73	48	4.0
26.52	28.04	1.52	1.17	77	0.80	53	4.0
28.04	29.57	1.53	1.52	99	0.80	52	4.0
29.57	31.09	1.52	1.76	116	1.50	99	4.0
31.09	32.61	1.52	1.36	89	0.94	62	4.0
32.61	33.53	0.92	1.22	133	0.69	75	4.0
33.53	35.66	2.13	1.85	87	1.16	54	4.5
35.66	38.71	3.05	2.77	91	1.73	57	4.0
38.71	41.15	2.44	2.28	93	1.08	44	4.0
41.15	43.28	2.13	2.05	96	1.28	60	4.0
43.28	46.33	3.05	2.92	96	2.38	78	4.0
46.33	47.85	1.52	1.49	98	0.93	61	4.0
47.85	50.90	3.05	2.61	86	1.44	47	3.5
50.90	53.64	2.74	2.73	100	1.78	65	3.5
53.64	56.69	3.05	2.89	95	2.57	84	3.5
56.69	59.74	3.05	2.97	97	1.28	42	3.5
59.74	62.48	2.74	2.51	92	0.98	36	4.0
62.48	65.53	3.05	2.88	94	2.30	75	4.0
65.53	67.36	1.83	1.72	94	1.12	61	4.0
67.36	69.19	1.83	1.91	104	1.22	67	4.0
69.19	72.24	3.05	2.92	96	1.55	51	4.0
72.24	75.29	3.05	3.00	98	1.70	56	3.5
75.29	78.33	3.04	3.08	101	1.60	53	4.0
78.33	81.38	3.05	2.89	95	1.69	55	3.5
81.38	84.43	3.05	2.81	92	1.36	45	4.0
84.43	87.48	3.05	3.03	99	2.08	68	4.0
87.48	90.53	3.05	2.95	97	2.61	86	4.0
90.53	93.57	3.04	2.92	96	1.49	49	4.0
93.57	96.22	2.65	2.71	102	2.06	78	4.0
96.22	99.67	3.45	3.06	89	2.48	72	4.5
99.67	102.72	3.05	2.90	95	2.09	69	4.0
102.72	105.77	3.05	3.27	107	2.47	81	4.0
105.77	108.81	3.04	2.98	98	2.54	84	5.0
108.81	111.86	3.05	3.04	100	2.42	79	5.0
111.86	114.91	3.05	3.03	99	2.25	74	4.5
114.91	117.96	3.05	3.02	99	2.41	79	5.0

Appendix 3 - Certificate Listing Northgate Exploration Lt

<i>DDH Number:</i>	<i>Chemex Certificate Number</i>	<i>Samples</i>
KN-00-12B	VA02001814	9
	VA02002034	25
	VA02002035	54
KN-01-17B	VA02001673	98
	VA02001675	25
KN-02-01	VA02001670	153
	VA02001671	153
	VA02001673	54
	VA02001674	120
	VA02001675	28
KN-02-02	VA02001674	25
	VA02001676	117
KN-02-03	VA02001675	150
	VA02001676	75
	VA02001810	100
	VA02001813	50
	VA02001814	25
	VA02002030	97
KN-02-04	VA02001813	150
	VA02001814	41
KN-02-05	VA02001810	49
	VA02001814	74
	VA02001815	125
	VA02001923	100
	VA02002030	19
KN-02-06	VA02001814	50
	VA02001815	75
	VA02001924	75

DDH Number:	Chemex Certificate Number	Samples
KN-02-06	VA02001925	25
	VA02002030	25
	VA02002081	60
KN-02-07	VA02001923	74
	VA02002030	53
	VA02002034	78
	VA02002035	50
	VA02002080	96
	VA02002221	125
	VA02002034	82
KN-02-08	VA02002036	14
	VA02002081	144
	VA02002030	6
KN-02-09	VA02002034	29
	VA02002035	125
	VA02002080	146
	VA02002220	100
	VA02001923	67
	VA02001924	147
KN-02-10	VA02002034	25
	VA02002081	25
	VA02002715	50
	VA02002221	100
KN-02-11	VA02002222	48
	VA02002227	200
	VA02002228	75
	VA02002229	1
	VA02002280	50
	VA02002220	125
	VA02002224	63
	VA02002220	125
KN-02-12	VA02002220	125
	VA02002224	63
KN-02-13	VA02002220	125
	VA02002224	63

<i>DDH Number:</i>	<i>Chemex Certificate Number</i>	<i>Samples</i>
KN-02-13	VA02002226	54
	VA02002228	120
KN-02-14	VA02002036	11
	VA02002222	175
	VA02002223	12
KN-02-14B	VA02002632	8
	VA02002806	25
	VA02002846	65
KN-02-15	VA02002223	13
	VA02002224	91
	VA02002225	50
	VA02002228	25
	VA02002229	50
	VA02002280	50
	VA02002412	12
	VA02002413	16
KN-02-16	VA02002224	75
	VA02002226	175
	VA02002227	34
	VA02002280	75
KN-02-16B	VA02002717	73
KN-02-17	VA02002412	204
	VA02002413	93
	VA02002510	71
KN-02-18	VA02002280	25
	VA02002410	125
	VA02002411	225
	VA02002412	10
	VA02002410	99
KN-02-19	VA02002510	50

<i>DDH Number:</i>	<i>Chemex Certificate Number</i>	<i>Samples</i>
KN-02-19	VA02002547	89
KN-02-20	VA02002631	75
	VA02002715	50
	VA02002716	105
KN-02-21	VA02002510	29
	VA02002548	125
	VA02002549	74
	VA02002631	50
	VA02002632	17
	VA02002716	25
KN-02-22	VA02002547	150
	VA02002548	100
	VA02002631	101
	VA02002715	24
KN-02-23	VA02002805	199
	VA02002806	48
	VA02002904	45
	VA02002934	25
	VA02002990	150
	VA02003004	50
KN-02-24	VA02002716	10
	VA02002717	16
	VA02002763	125
	VA02002764	75
	VA02002806	124
KN-02-25	VA02002715	105
	VA02002716	96
	VA02002717	50
	VA02002763	77
	VA02002764	23

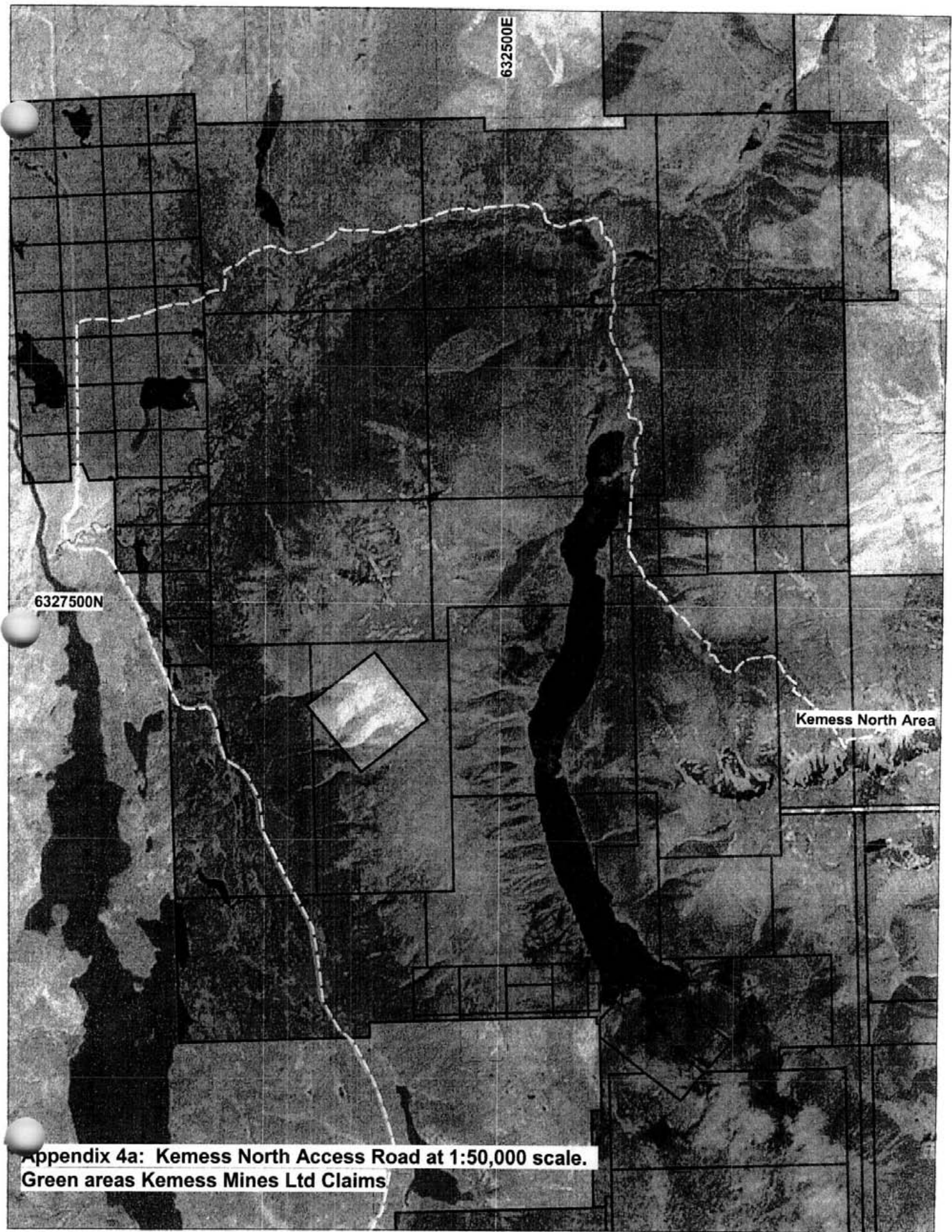
<i>DDH Number:</i>	<i>Chemex Certificate Number</i>	<i>Samples</i>
KN-02-25	VA02002805	35
KN-02-26	VA02002717	29
KN-02-27	VA02002846	140
	VA02002904	50
	VA02002934	25
	VA02002990	25
	VA02002991	14
KN-02-28	VA02002846	25
	VA02003004	25
	VA02003156	50
	VA02003160	151
	VA02003172	76
KN-02-29	VA02003004	74
	VA02003156	150
	VA02003160	65
	VA02003161	75
	VA02003172	53
KN-02-30	VA02002805	3
	VA02002990	55
	VA02002991	185
KN-02-31	VA02003178	74
	VA02003353	24
	VA02003356	25
	VA02003357	55
KN-02-32	VA02002991	36
	VA02003172	25
	VA02003178	75
	VA02003353	25
	VA02003415	85
KN-02-33	VA02003353	150

<i>DDH Number:</i>	<i>Chemex Certificate Number</i>	<i>Samples</i>
KN-02-33	VA02003354	86
KN-02-34	VA02003178	8
	VA02003354	50
	VA02003355	225
	VA02003356	100
	VA02003415	39
KN-02-35	VA02003354	64
	VA02003415	50
	VA02003605	11
	VA02003606	138
KN-02-36	VA02003356	75
	VA02003719	75
	VA02003800	75
	VA02003894	70
KN-02-37	VA02003356	25
	VA02003607	50
	VA02003608	75
	VA02003719	25
	VA02003894	25
	VA02003951	43
KN-02-38	VA02003606	78
	VA02003607	188
KN-02-39	VA02003894	25
	VA02003950	87
	VA02003951	163
	VA02004053	53
KN-02-39A	VA02003894	2
KN-02-40	VA02003605	186
	VA02003950	100
	VA02004053	50

DDH Number:	Chemex Certificate Number	Samples
KN-02-40	VA02004239	22
KN-02-41	VA02004239	2
	VA02004593	50
	VA02004626	75
	VA02004724	75
	VA02004729	57
KN-02-42	VA02004053	87
	VA02004110	101
	VA02004138	26
KN-02-43	VA02004053	32
	VA02004110	125
	VA02004138	50
	VA02004250	156
KN-02-45	VA02004308	68
	VA02004396	51
	VA02004523	199
	VA02004524	7
KN-02-46	VA02004138	50
	VA02004239	155
	VA02004250	70
	VA02004308	24
KN-02-47	VA02004724	149
	VA02004729	138
KN-02-48	VA02004308	75
	VA02004396	50
	VA02004524	200
	VA02004594	14
KN-02-49	VA02004593	12
	VA02004594	100
	VA02004626	75

<i>DDH Number:</i>	<i>Chemex Certificate Number</i>	<i>Samples</i>
KN-02-49	VA02004725	161
KN-02-50	VA02005580	47
	VA02005581	46
	VA02005685	75
	VA02005766	162
KN-02-51	VA02004757	150
	VA02004877	75
	VA02004879	75
	VA02004935	58
KN-02-52	VA02005020	75
	VA02005288	150
	VA02005581	151
KN-02-55	VA02004877	75
	VA02004879	150
	VA02004935	91
KN-02-56	VA02005580	189
	VA02005581	24
	VA02005685	77

Appendix 4a: Plan Map – 1:50,000 Access Road and Claims



**Appendix 4a: Kemess North Access Road at 1:50,000 scale.
Green areas Kemess Mines Ltd Claims**



Appendix 6: Graben Petrographics - Petrographic Report

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-04-247.5, Box 37; Drill core	Job:	KM-103
Section Name and Type:	KN-02-4-248; Polished Thin Section	Date:	November 18, 2002
Petrographic Designation:	Calc-silicate hornfels (also: magnesian skarn)		
Protolith:	Possibly an impure dolomitic sedimentary rock or an altered basaltic rock		

Mineralogy

Mineral	Estimated Modal %
Quartz	10
Clinopyroxene	15
Olivine (serpentinized)	11-13
Phlogopite	30
Chlorite	10
Talc +/- Sericite	15
Ilmenite + trace rutile, leucoxene	2
Pyrite	5-7
Chalcopyrite	0.5

General Description

The drill core is a mottled skarn, consisting of completely serpentinized subhedral olivine porphyroblasts and aggregates of phlogopite ± chlorite (up to about 2mm) within a finer-grained, heterogeneous assemblage of clinopyroxene, talc +/- sericite, quartz, phlogopite, and chlorite. Minor anhedral pyrite, with lesser ilmenite laths and anhedral chalcopyrite are disseminated throughout.

The polished thin section is cross-cut by a veinlet of primarily clinopyroxene, intergrown with, and rimmed by, chlorite and biotite. Trace pyrite and rare chalcopyrite also occur. The veinlet is itself cut by a series of subparallel and thinner veinlets of pyrite, lesser chalcopyrite, chlorite, phlogopite, quartz and sericite.

Mineralogy

Quartz occurs as equant, anhedral grains, < 10 - 40 microns in size, forming tightly intergrown granular aggregates throughout the section.

Clear and colourless squares and rectangles of clinopyroxene. 30 - 300 microns in size occur throughout the section, typically intergrown with quartz, chlorite, sericite or talc, and phlogopitic mica. They can include ilmenite and leucoxene. The section is also cross-cut by a veinlet that is principally clinopyroxene, which is commonly anhedral and up to 920 microns in size. Several grains are strained, exhibiting undulatory extinction. Intergrown with the clinopyroxene are minor quartz, phlogopitic mica, chlorite and quartz, with trace amounts of pyrite and rare chalcopyrite.

Except for several small remnants, olivine is completely serpentinized. The lack of iron-rich selvages (e.g.

iddingsite) or secondary magnetite that commonly accompanies altered olivine, suggests the primary olivine is more magnesian in composition. Olivine outlines tend to be subhedral to euhedral and range up to 800 microns in size.

Olivine is typically partially to completely enclosed by patchy, anhedral felted masses of a very fine-grained phyllosilicate, which is believed to be either sericite or talc. Individual flakes are difficult to resolve, being less than 5 microns in length. Further study via chemical or physical means (e.g. XRD) may be necessary. The felted masses partially to completely enclose clinopyroxene, chlorite and opaque minerals. In places, the masses tend to follow the outlines of serpentinized olivine, suggesting the previous mineral crystallized later than the olivine, forming a poikilitic/poikiloblastic texture. One or two vaguely rectangular-shaped masses of this phyllosilicate were observed, which may point to a feldspar precursor, and would probably be sericitic in composition; however, this is not a conclusive identification.

Mica ranges in colour from medium to pale green as well as medium to pale brown. The pale colouration may indicate a more phlogopitic composition. Individual flakes average about 100 - 120 x 200 - 240 microns in size, forming stubby flakes in a 2:1 ratio. They tend to form moderately-knit, subrounded clusters up to 1.5mm in diameter, intergrown with minor clinopyroxene, chlorite, quartz and pyrite. Also observed are irregular-shaped aggregates of mica partially rimming the felted sericite/talc masses, separating them from the quartz-rich domains.

Chlorite tends to occur as thinner, more elongate flakes (20 x 280; 50 x 240 microns), intergrown with clinopyroxene and mica. It is also a common constituent of the thinner pyrite-chlorite-phlogopite/biotite veinlets which cross-cut the section.

Discussion

The sample is an aphanitic to fine-grained and massive hornfels, consisting of a heterogeneous assemblage of minerals of uncertain origin. The rock may have had as its precursor a siliceous and dolomitic carbonate, which would account for the prevalent Mg-rich minerals. On the other hand, the most common unaltered rock type in the immediate vicinity is a phyrlic augite basaltic flow; which could also have acted as a source of magnesium. A quick run-through of the types of alteration which is typically associated with these rock types is presented below. If the precursor rock had been subjected to hydrothermal alteration as well as contact metamorphism, its provenance will be that much harder to decipher.

The section's mineralogy and textures are not definitively characteristic of either a contact metamorphosed augite basalt or impure dolomitic sedimentary rock. The presence of forsterite may be slightly more indicative of calcareous sedimentary precursor. It would be advisable to have the fine-grained phyllosilicate masses analysed to determine if they are composed of sericite (altered from plagioclase) or talc (can alter from a number of minerals).

Augite Basalt

According to Mason (p. 74), basic igneous rocks that have undergone contact metamorphism become pyroxene hornfels which commonly have assemblages of clinopyroxene + plagioclase (An₅₀) + quartz + opaques; olivine is not common.

Ferromagnesian minerals within basalts can alter to one, or a combination of: fibrous amphibole (uralite), biotite, chlorite, serpentine, talc, hematite or carbonate. Plagioclase can alter to one, or a combination of: epidote-group minerals, sericite, carbonate and albite; the plagioclase crystal form tends to be preserved.

Most of these alterations are accompanied by the release of silica, so fine-grained quartz occurs as well.

According to Moorhouse(p.426) altered lavas undergoing thermal metamorphism can recrystallize to hornblende - plagioclase rocks. Subsequent alteration may produce epidote-group minerals(from hornblende), and sericitized or saussericitized plagioclase.

Olivine is a common constituent of the sample, but its presence within the augite basalt on the property is not known. Olivine in basalts tends to be rimmed by a reddish-brown alteration(in places identified as iddingsite; in others, hematite); it also tends to alter to an assemblage of serpentine mixed with fine-grained magnetite or hematite. This has not been observed in the olivine in the sample.

Calc-Silicate Rocks

Carbonate-rich sedimentary rocks undergoing contact metamorphism can form such minerals as: talc(from dolomite and quartz), tremolite-actinolite, diopside, forsterite and phlogopite.

Subsequent alteration can produce: talc(after tremolite), chlorite(after phlogopite or actinolite) and serpentine(after forsterite or diopside)

Cited References

Mason, R. Petrology of the metamorphic rocks. Pub. by George Allen & Unwin Ltd., London, 1980. 254p.

Moorhouse, W.W. The study of rocks in thin section. Pub. by Harper & Row, New York, 1959. 514p.

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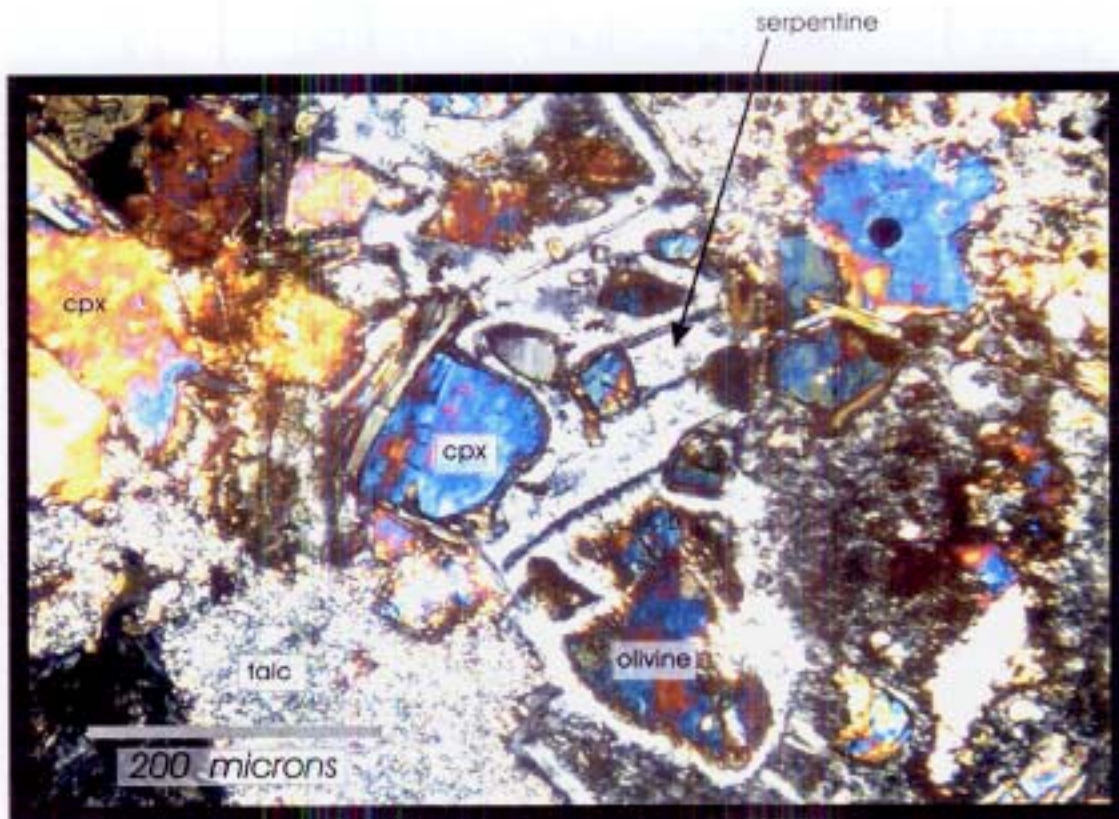


Figure 1. Sample KN-02-04-247.5. Olivine partially altered to grey fibrous serpentine and intergrown with clinopyroxene (variety diopside). Both sit within a very fine-grained fibrous talc aggregate.

Cross polarized transmitted light, 10x objective.

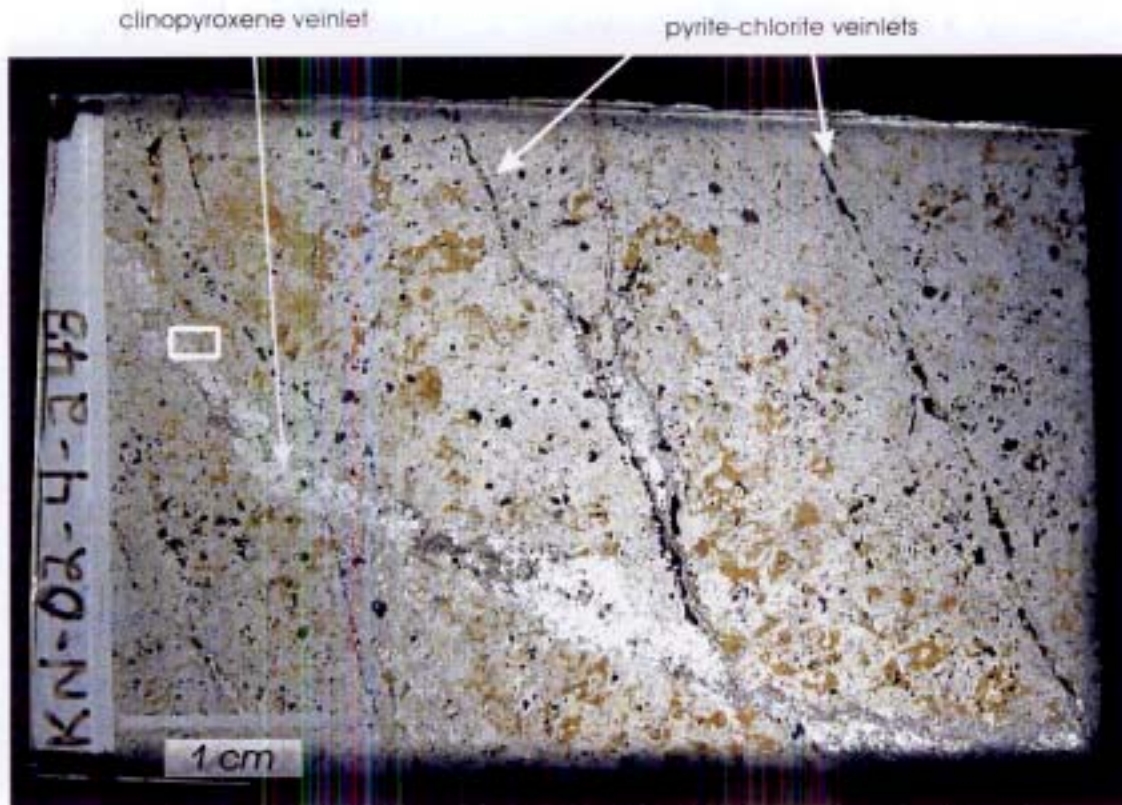


Figure 2a. Sample KN-02-04-247.5 Overview of polished thin section showing phlogopitic porphyroblasts and scattered pyrite, chalcopyrite and ilmenite opaques within a pale green aphanitic matrix. Sample is cross-cut by translucent clinopyroxene veinlets and thinner pyrite-chlorite +/- clinopyroxene veinlets. Rectangle identifies area shown in the figure below.

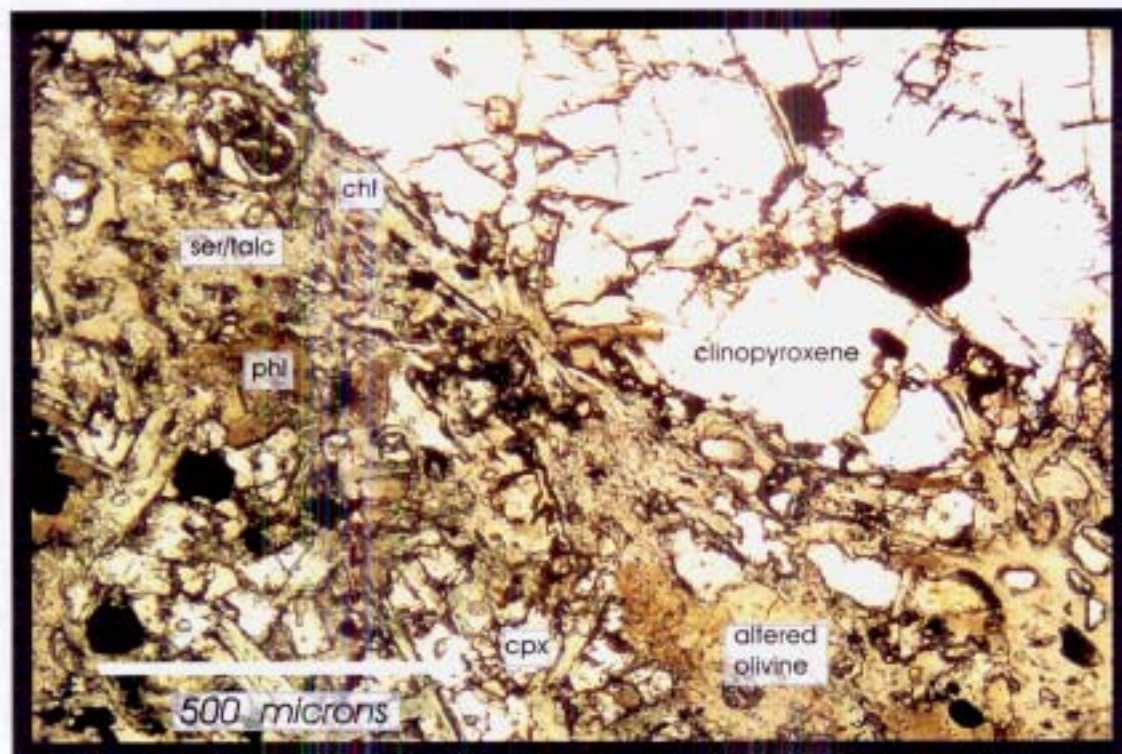


Figure 2b. Close up view of area outlined above, showing the edge of the clinopyroxene veinlet, bordered by chlorite(chl), phlogopitic mica(phl), fine-grained clinopyroxene(cpx) and minor serpentinized olivine. Plane polarized transmitted light. 5x objective.



PETROGRAPHIC REPORT

Sample and Type:	KN-02-04-265.18, Box 40; Drill core	Job:	KM-103
Section Name and Type:	KN-02-4-265; Polished Thin Section	Date:	November 17, 2002
Petrographic Designation:	Phlogopitic hornfels		
Protolith:	Thinly laminated, slightly limey, argillaceous siltstone and pelite		

Mineralogy

Mineral	Estimated Modal %
Quartz	35
Phlogopite	40
Chlorite	5
Sericite	10
Serpentine(altered olivine)	5
Gypsum (in veinlet)	rare
Zircon	very rare
Magnetite	very rare
Ilmenite & Leucoxene	1
Pyrite	3
Chalcopyrite	1
Molybdenite	v. rare

Petrography

The sample appears to be a fine-grained, essentially massive hornfels, that with closer inspection exhibits indistinct phlogopite-rich and quartz-sericite-rich zones.

The pale to medium greenish-brown phlogopite tends to form moderately intergrown masses or patches with minor quartz and sericite. Rare phlogopite flakes are partially altered to chlorite. Quartz-rich zones are composed of equant quartz grains, typically 40 - 100 microns in size, and intergrown with felted masses of very fine-grained sericite.

Several areas of the section contain anhedral to vaguely hexagonal patches of felted serpentine, which is believed to be completely altered olivine.

Pyrite, chalcopyrite, rare magnetite and molybdenite are typically within quartz-chlorite±rare gypsum veinlets, but are also disseminated within the matrix.

The mineralogy and textures exhibited by the sample suggest the protolith was a sedimentary rock of silty and pelitic composition, with a minor limey component(as evidenced by the altered olivine).

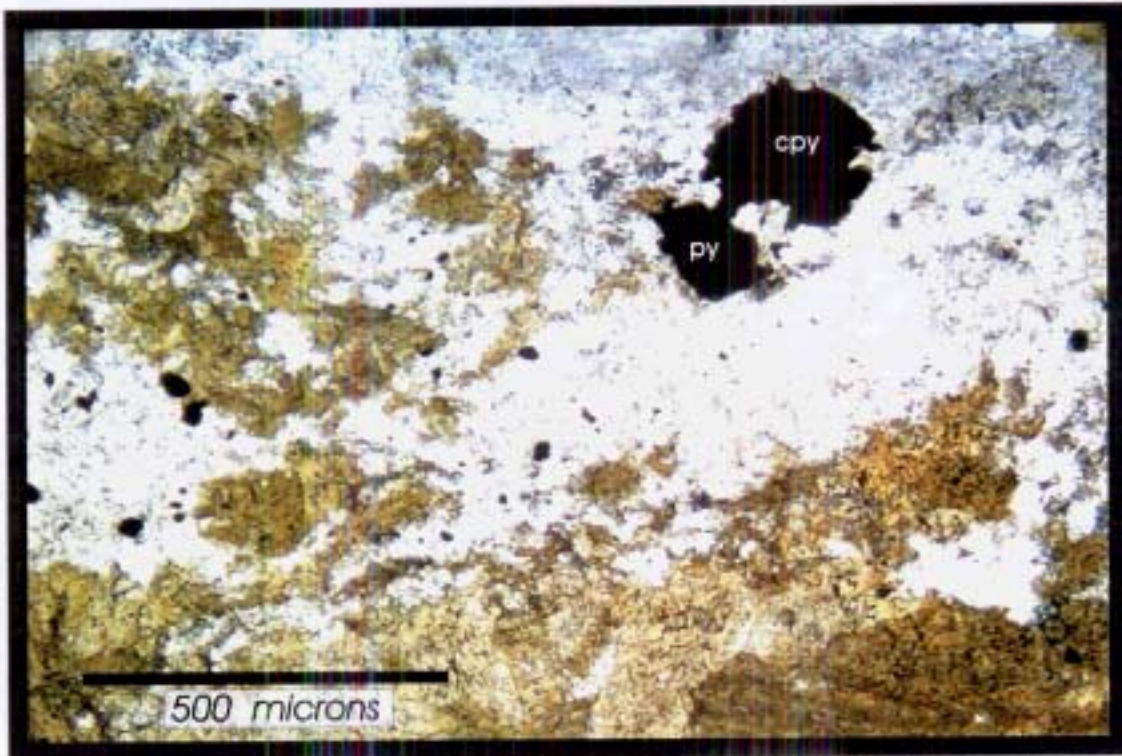


Figure 1a. Sample KN-02-04-265.18. Overview of quartz-sericite-rich and phlogopite-rich zones within the section, although the zones are not typically as well-defined.
py=pyrite cpy=chalcopyrite

Plane polarized transmitted light. 5x objective.

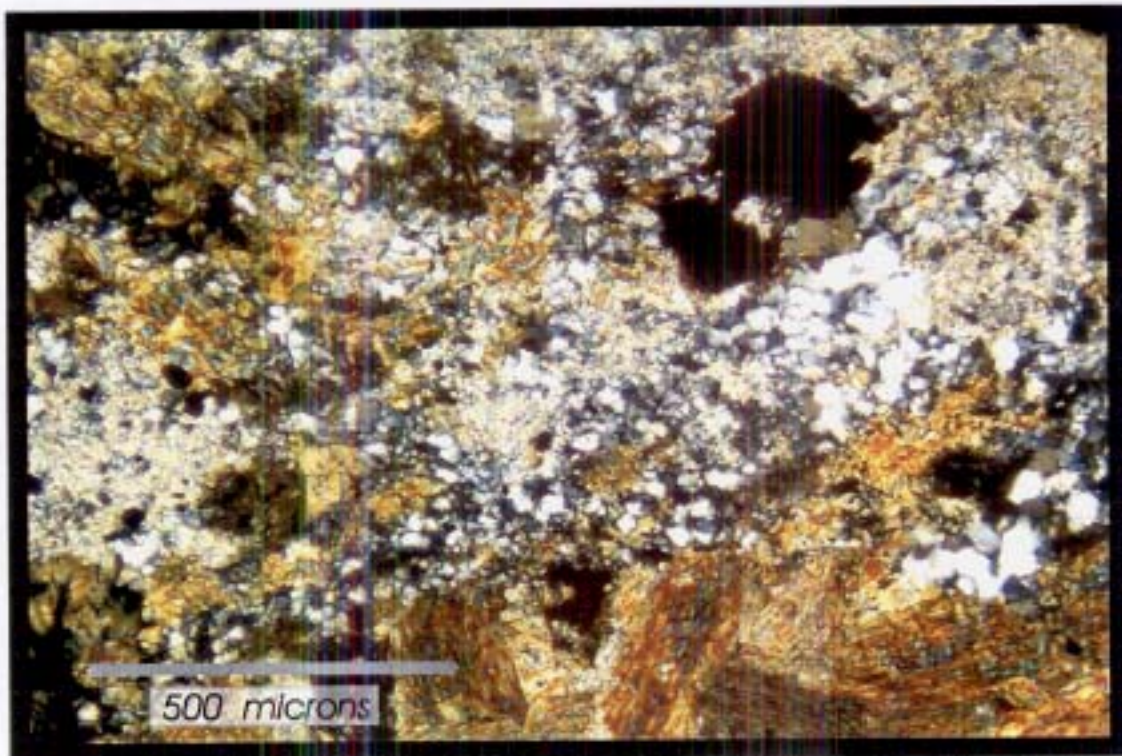


Figure 1b. Same view as above, showing the patchy sericite within the quartz-sericite-rich zone.

Cross polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-04-389, Box 57; Drill core	Job:	KM-103
Section Name and Type:	KN-02-4-389; Polished Thin Section	Date:	November 19, 2002
Petrographic Designation:	Sericite-Magnetite Andesitic Porphyry		
Protolith:	Andesite Porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz Phenocrysts	trace
Plagioclase Phenocrysts	40
Chlorite	2
Sericite	15
Aphanitic matrix (quartz+sericite+feldspar(?)+chlorite+magnetite+rutile)	36
Calcite	trace
Epidote	trace
Magnetite	4
Rutile	1
Ilmenite & Leucoxene	trace
Apatite	rare
Pyrite	rare
Chalcopyrite	rare

Petrography

The sample consists of discrete zones of translucent to opaque white and very pale orangish-white aggregates of primarily sericitized plagioclase. The zones are surrounded by grey, aphanitic assemblage of quartz, sericite, feldspar(?; too fine-grained to identify with certainty), chlorite, magnetite and rutile, with minor plagioclase phenocrysts. The aphanitic zones tend to be cross-cut by a network of fractures containing variable amounts of quartz, sericite, chlorite, epidote and rutile. Scattered throughout are subhedral to euhedral square and hexagonal magnetite. Rare pyrite and chalcopyrite occur within the matrix; locally adjacent veinlets.

The sample is cross-cut by veinlets of quartz-calcite±gypsum±muscovite±chlorite.

Subhedral plagioclase phenocrysts average about 700 microns in size and are up to 1.2mm long in section, 2.5mm in drill core cutoff. The polysynthetic twin planes are typically partially indistinct. Several phenocrysts exhibit indistinct zoning, with more calcic cores and more sodic rims. A quick look at four phenocrysts showed the An content to be variable, with two around An₃₆(andesine), 1 more sodic and 1 more calcic.

The plagioclase has been weakly to strongly sericitized; several also have minor epidote or calcite alteration(usually within the cores).

Chlorite is a ubiquitous mineral, commonly occurring as small individual flakes in the matrix and within the matrix as irregular zones of chlorite intergrown with very fine-grained magnetite and rutile. Less common are

the tight-knit aggregates of chlorite and accessory very fine-grained rutile, which have vague, lath-like shapes, and may represent altered ferromagnesian minerals; these are locally rimmed by sericite aggregates. Most chlorite has the "Berlin blue" anomalous birefringence, indicative of the penninite variety of chlorite.

The phenocrysts sit within a much finer-grained matrix of <10 - 30 micron-sized minerals as listed above. The matrix appears to be cross-cut by a series of discontinuous, straight to sinuous fractures, infilled with variable amounts of sericite, quartz, chlorite, epidote, and rutile. The fractures follow phenocryst boundaries as well as cross-cut the phenocrysts with little or no offset..

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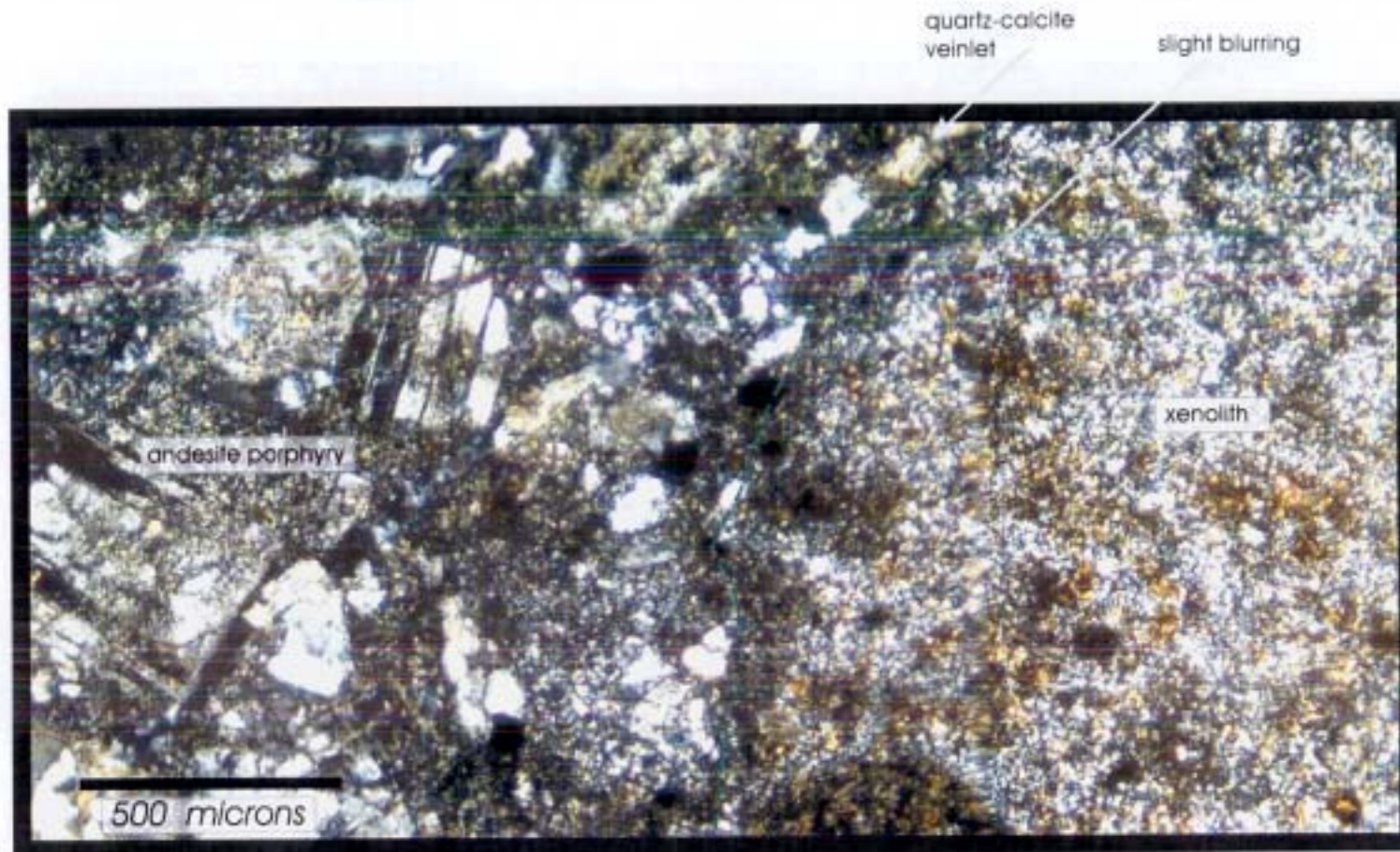
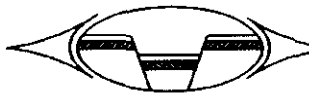


Figure 1. Sample KN-02-04-400. Composite photomicrograph of completely altered xenolith(xenolith 1, right) in contact with a slightly altered andesite porphyry(left). A thin quartz-calcite veinlet crosscuts both lithotypes (xenolith out of view). A slight blurring is caused by difficulties in stitching together 3 photomicrographs.

Cross polarized transmitted light, 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-04-400, Box 59; Drill core	Job:	KM-103
Section Name and Type:	KN-02-4-400; Polished Thin Section	Date:	November 20, 2002
Petrographic Designation:	Xenolithic Andesite Porphyry		
Protolith:	Xenolithic Andesite Porphyry		

Mineralogy of Andesite Porphyry

Mineral	Estimated Modal %
Quartz	2
Plagioclase	55
Altered ferromagnesian minerals (to chlorite+rutile)	trace
Sericite	5
Aphanitic matrix (quartz-feldspar-chlorite-sericite; trace apatite; rare biotite)	32
Magnetite	5
Rutile	1
Ilmenite & Leucoxene	trace
Zircon	very rare
Pyrite	trace

Petrography

The sample is a slightly sericitic and chloritic andesite porphyry with common lapilli-sized subrounded xenoliths of various compositions and degrees of alteration.

The andesite porphyry contains minor equant to elongate to irregular-shaped quartz phenocrysts up to 2mm in size.

Stubby subhedral laths of plagioclase phenocrysts up to 2mm in length are weakly to moderately sericitic and moderately turbid. A small proportion are broken and subangular in shape. Twin planes are distinct; no zoning is observed.

Completely altered ferromagnesian laths up to 3.5mm in length consist of tightly intergrown chlorite-rutile-magnetite-ilmenite±leucoxene. They appear a deep dark green in hand sample. A few have thin selvages of fine-grained biotite-magnetite and may represent an altered reaction rim.

Magnetite is a ubiquitous accessory, forming equant, euhedral to subhedral squares and hexagons, <10 microns to up to 1mm in size. The smaller grains (<10 -30 microns) are scattered throughout the matrix; larger grains tend to be associated with chlorite-rich patches.

Trace disseminated pyrite occurs as subequant and subrounded grains, 20 - 600 microns in size. The larger grains are typically found within chlorite patches, but do not coexist with magnetite.

Common thin hair veinlets ≤ 40 microns wide consist of quartz, calcite ±gypsum. In places they cross-cut each other in conjugate sets.

One wider veinlet(1.4mm) cross-cuts the section and contains quartz, calcite and pinkish-orange gypsum. Minor and restricted sericite-chlorite occurs along the selvages.

Xenoliths

Three xenoliths occur in the section and are of different compositions, textures and degrees of alteration, and are briefly described below. Other kinds of xenoliths were observed in the drill core, suggesting that the magma incorporated a diverse suite of rocks along its journey. Most are lapilli-sized and subrounded; a few are smaller with more irregular, lobate boundaries.

Xenolith 1

The fragment is a subrounded, completely altered porphyry with dark "ghost" subhedral, 4 to 6-sided phenocrysts containing very fine-grained(≤ 40 microns) feldspar(very pale brown and turbid), colourless quartz, biotite, chlorite, rutile, ilmenite and leucoxene. A few of the larger phenocrysts contain strongly sericitized plagioclase, clots of tightly intergrown chlorite+rutile(an inclusion of an altered ferromagnesian mineral?)and quartz. These altered phenocrysts sit within a paler and finer-grained(≤ 20 microns) aggregate of quartz-biotite±feldspar(Figure 1). Trace ilmenite and rare magnetite-chlorite make up the rest of the matrix.

The xenolith is discontinuously bordered by a 50 micron-wide reaction rim of chlorite-rutile-minor biotite.

Xenolith 2

This fragment contains more and thinner plagioclase than the main andesite porphyry. In places the plagioclase laths have a subparallel orientation, representing a possible fluidal texture. Plagioclase is commonly zoned, with turbid cores of sericite, a dark grey cryptocrystalline material and rare epidote; the extreme edges are clear and less altered.

Xenolith 3

Only 1.4 x 2.2 mm wide, the xenolith is similar to #2, although the plagioclase is not zoned.

Xenolith 4

This subrounded fragment was observed on the side of the drill core cutoff which was not sectioned. It is an overall metallic blackish-grey, containing abundant fine-grained magnetite and minor deep dark green laths.

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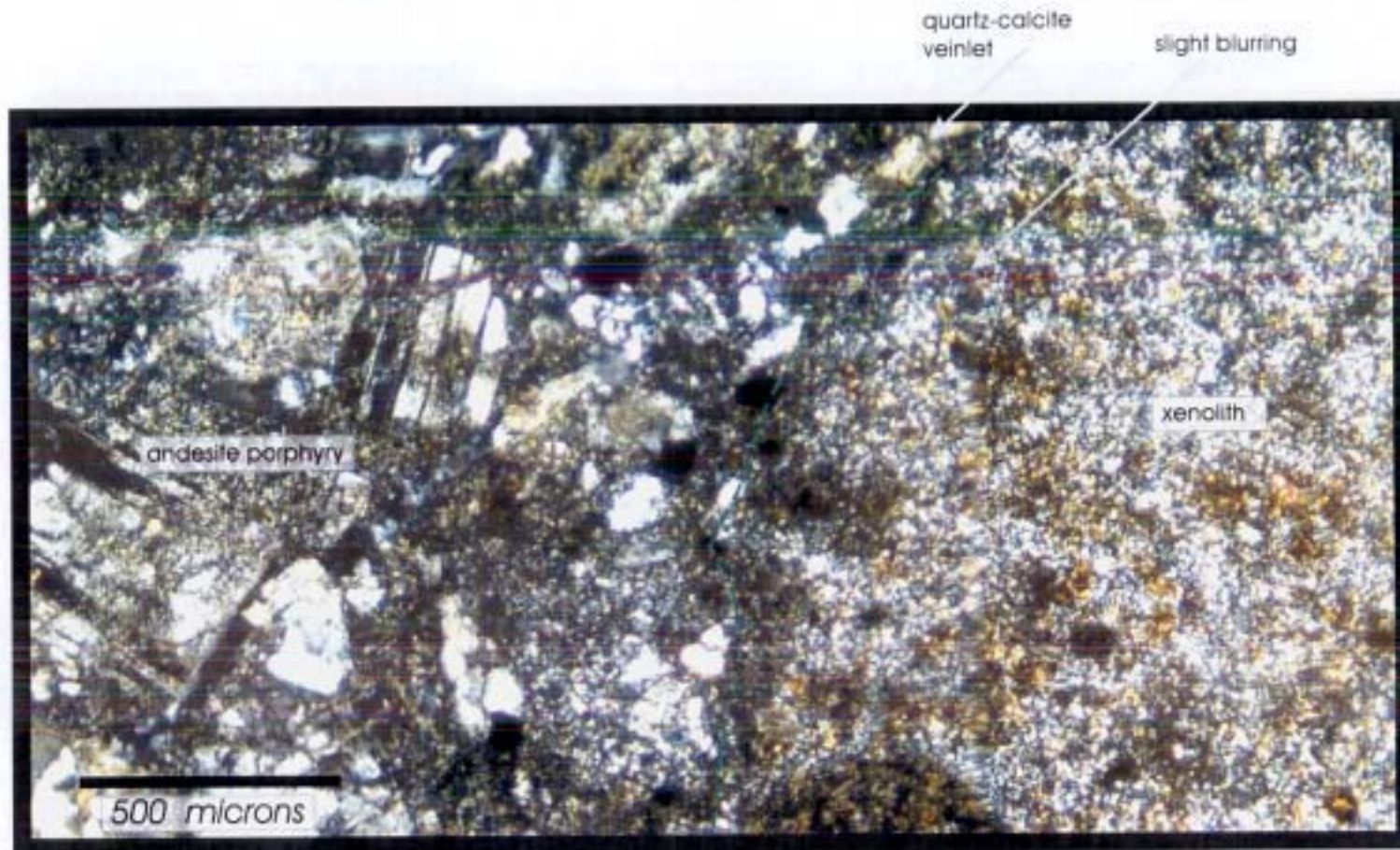


Figure 1. Sample KN-02-04-400. Composite photomicrograph of completely altered xenolith(xenolith 1, right) in contact with a slightly altered andesite porphyry(left). A thin quartz-calcite veinlet crosscuts both lithotypes (xenolith out of view). A slight blurring is caused by difficulties in stitching together 3 photomicrographs.

Cross polarized transmitted light, 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-08-379.8-380.0; Box 70; Drill core	Job:	KM-103
Section Name and Type:	KN-02-8-380; Polished Thin Section	Date:	November 22, 2002
Petrographic Designation:	Sericitized and serpentinized andesite(?) porphyry		
Protolith:	Possible andesite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz phenocrysts	rare
Serpentinized and sericitized ferromagnesian phenocrysts	15
Biotite	10
Fine-grained sericite±quartz±feldspar±ilmenite±magnetite±rutile±chlorite (matrix and altered phenocrysts)	66
Apatite	1
Magnetite	1
Ilmenite & Rutile	1
Pyrite	3
Chalcopyrite	2
Gypsum (vein)	1

Petrography

The drill core contains both sericite- and silica-rich areas; only the sericitic area has been sampled.

The sectioned area of the sample has been strongly altered to a fine-grained assemblage of quartz-sericite±feldspar and lesser ilmenite-magnetite-rutile-chlorite, with an average grain size ≤ 40 microns. A number of sericite-rich zones have lath-like outlines, suggesting a feldspar precursor.

Rounded patches (up to 2mm diameter) of intergrown biotite are commonly scattered throughout; biotite is only rarely partially altered to chlorite.

Common ferromagnesian phenocrysts are typically completely altered to serpentine, with or without an outer zone of sericite± trace rutile. The grains are irregular and lobate in shape.

Magnetite, chalcopyrite and pyrite are irregularly disseminated throughout the section. Pyrite and chalcopyrite are also found in quartz-gypsum-calcite veinlets which crosscut the sample.

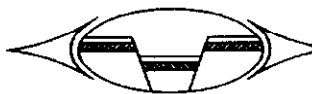
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Figure 1. Sample KN-02-8-380. View of a serpentinized and sericitized ferromagnesian mineral within a very fine-grained matrix of quartz-sericite +/- feldspar.

Cross polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-10-363.80-364.0; Box 65; Drill core	Job:	KM-103
Section Name and Type:	KN-02-10-364; Polished Thin Section	Date:	November 22, 2002
Petrographic Designation:	Phlogopite kaolinite rock		
Protolith:	Uncertain		

Mineralogy

Mineral	Estimated Modal %
Quartz	20
Phlogopite	47
Kaolinite	30
Epidote (var. clinozoisite)	trace
Rutile	rare
Pyrite	2
Chalcopyrite	1
Pyrrhotite	v. rare
Molybdenite	v. rare

Petrography

Patchy brown areas appear to inundate white, lath-shaped areas in the drill core. In section, tightly intergrown masses of pale brown phlogopite engulf vaguely square and rectangular patches containing felted masses of very fine-grained kaolinite (a possible feldspar precursor). The remaining "matrix" consists of equigranular quartz (averaging 40 microns) intergrown with minor phlogopite, kaolinite and rutile.

The sample cutoff contains trace amounts of a fine-grained yellowish mineral, which under the microscope appears to be clinozoisite.

Minor irregularly-shaped chalcopyrite is intergrown, and rarely, included within, pyrite. Several chalcopyrite inclusions are intergrown with pyrrhotite. Three flakes (80 microns in size) of molybdenite also occur. All the sulphides are scattered throughout the section.

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Figure 1. Sample KN-02-10-364. Dark grey, lath-shaped zones of kaolinite are surrounded by masses of tightly intergrown phlogopite. Cross polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-13-376.75-377.0; Box 72; Drill core	Job:	KM-103
Section Name and Type:	KN-02-13-377; Polished Thin Section	Date:	November 23, 2002
Petrographic Designation:	Biotite-rich rock		
Protolith:	Possible volcanic		

Mineralogy

Mineral	Estimated Modal %
Biotite	60
Chlorite	trace
Sericite	trace
Orthopyroxene(?)	trace
Matrix and lighter patches of: quartz-feldspar-lesser biotite	35
Ilmenite & Rutile & Leucosene	1
Pyrite	3
Chalcopyrite	1
Pyrrhotite	v. rare
Molybdenite	v. rare

Petrography

Pale to moderate green flakes of tightly intergrown biotite inundates the sample, incorporating vaguely lath-shaped lighter patches of very fine-grained (averaging 20 - 40 microns) quartz-very pale brown turbid feldspar-lesser biotite-ilmenite and rutile. Based on comparative refractive indices, the feldspar is either a potassic feldspar or a sodic plagioclase (i.e. albite or oligoclase); one patch contains larger feldspar (up to 400 microns) of more calcic plagioclase.

Within the matrix are trace amounts of subequant to lath-shaped and very lobate orthopyroxene.

Scattered throughout the sample are fine- to medium-grained pyrite, lesser fine-grained chalcopyrite and 1 rare flake of molybdenite. Pyrite typically contains trace amounts of rounded chalcopyrite \pm pyrrhotite inclusions.

The section is cut by thin hair veinlets of quartz-gypsum \pm pyrite \pm feldspar. One larger veinlet, up to 2mm width, consists of quartz-pyrite-chlorite-chalcopyrite with lesser feldspar-sericite-gypsum-apatite-rutile. A restricted alteration zone of about 2 mm consists of chloritized and sericitized biotite and sericitized feldspar.

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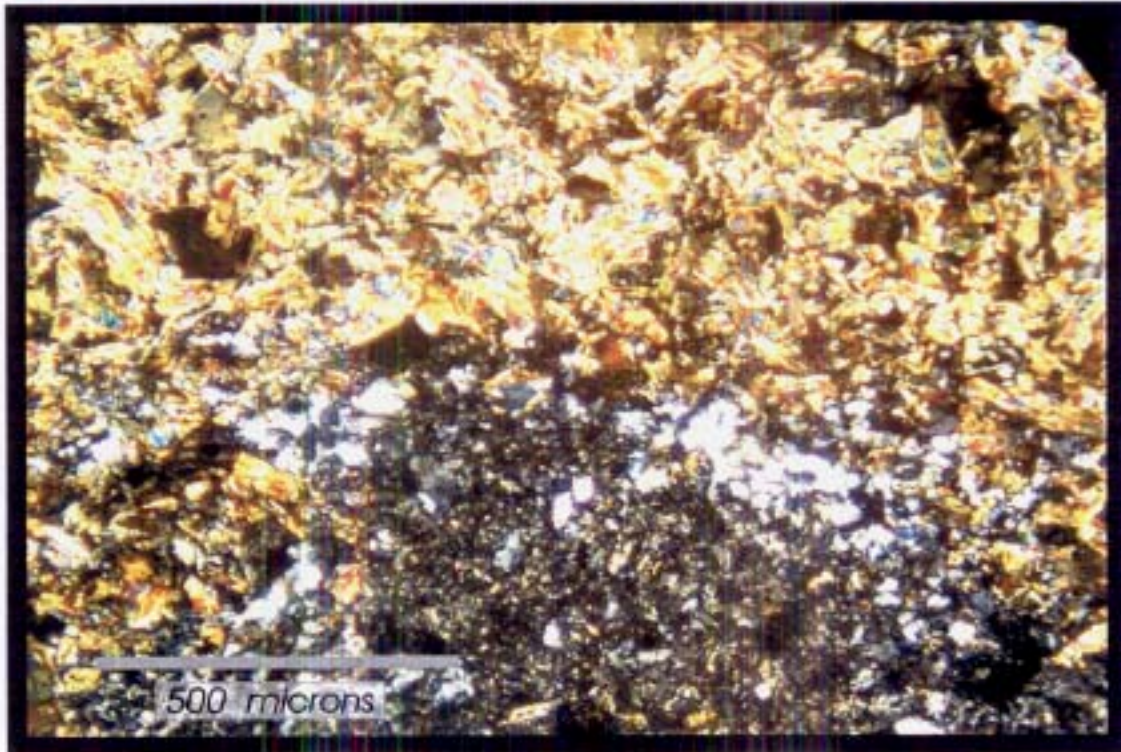
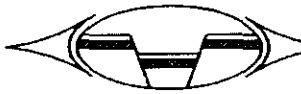


Figure1. Sample KN-02-13-377. Tightly intergrown biotite surround part of an aggregate of quartz-feldspar (dark grey area in the lower half of the photomicrograph).
Cross polarized transmitted light, 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-14B-544.4-544.5; Drill core	Job:	KM-103
Section Name and Type:	KN-02-14B-544; Polished Thin Section	Date:	November 24, 2002
Petrographic Designation:	Biotitic basalt		
Protolith:	Basalt		

Mineralogy

Mineral	Estimated Modal %
Quartz	5
Plagioclase	48
Clinopyroxene	5
Biotite	35
Chlorite	trace
Sericite & Muscovite	trace
Clino- amphibole	1
Epidote	trace
Magnetite	trace
Ilmenite & Leucoxene	1
Pyrite	3
Chalcopyrite	2
Molybdenite	rare

Petrography and Alteration

Slender laths of very fine-grained(80-120 microns) and tightly intergrown plagioclase are interspersed with clots of minor quartz and slightly larger(150 micron average) clinopyroxene microphenocrysts. Medium greenish-brown flakes of very fine-grained biotite(averaging 20 microns) are pervasively distributed throughout the section. Biotite also forms irregularly-shaped clusters of flakes up to 2mm in size; typically intergrown with amphibole. Rare, vaguely lath-shaped, medium-grey areas containing sericite and clinozoisite(?) may represent saussericitized feldspar phenocrysts.

Yellowish-green to bluish-green amphibole is typically intergrown with biotite-pyrite-chalcopyrite with trace amounts of magnetite-chlorite-muscovite-epidote. The bluish colouration may be representative of sodic alteration.

Chalcopyrite occurs as individual grains, typically associated with pyrite-amphibole-chlorite. It also occurs as rounded inclusions within the pyrite and as very fine-grained disseminations within amphibole-chlorite patches. Rare molybdenite occurs as solitary flakes in the matrix relatively close to the main vein cutting the sample.

The sample is cut by a 1.5cm wide vein containing principally quartz and a very pale pinkish-white, translucent mineral tentatively identified as spodumene. Trace amounts of molybdenite, chalcopyrite, pyrite, epidote, chlorite and fibrous amphibole(uralite) occur along the inner selvages of the vein.

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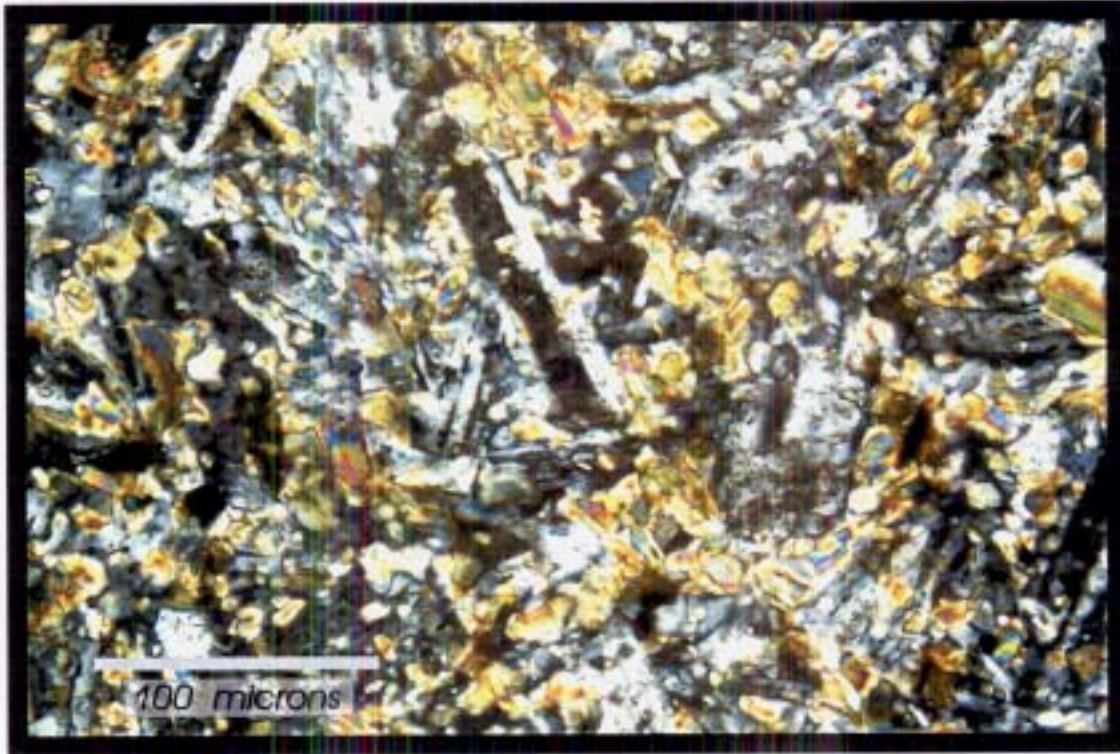
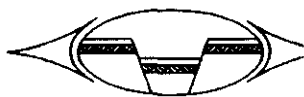


Figure 1. Sample KN-02-14B-544. Typical view of tightly intergrown slender plagioclase laths and common biotite. Cross polarized transmitted light, 20x objective.



PETROGRAPHIC REPORT

Sample and Type:	KN-02-15-125.25-125.50; Box 17; Drill core	Job:	KM-103
Section Name and Type:	KN-02-15-125; Polished Thin Section	Date:	November 25, 2002
Petrographic Designation:	Sericitic-biotite-silicic felsic to intermediate porphyry		
Protolith:	Possible andesite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz	40
Plagioclase & Sericite	30
Clinopyroxene	13
Biotite	12
Chlorite	trace
Ilmenite & Rutile	trace
Zircon	rare
Pyrite	2
Chalcopyrite	3
Molybdenite	v. rare

Petrography

Fine- to medium-grained, moderately to strongly sericitized plagioclase phenocrysts, lesser finer-grained clinopyroxene, patches of biotite and rare quartz phenocrysts sit within an aphanitic matrix rich in equigranular quartz, sericitized plagioclase and biotite.

The biotite patches consist of an intergrown aggregate of medium brownish-green biotite, lesser clinopyroxene, minor chalcopyrite and very rare dark green amphibole. One patch has a shape vaguely like that of an amphibole cross-section, suggesting most of the biotite patches are altered amphiboles.

Pyrite and chalcopyrite are disseminated throughout the section, within the matrix or within the biotite patches. Several small(80 micron) molybdenite flakes occur within the matrix adjacent a veinlet.

One side of the section has no remnant phenocrysts; only an aphanitic intergrowth of quartz-sericite-clinopyroxene-minor biotite. This may represent a completely silicified-sericitized portion of the sample.

The section is cross-cut by several veinlets consisting primarily of quartz, a pinkish transparent to translucent clinopyroxene, chalcopyrite and pyrite. Minor chlorite, dark green amphibole, and rare carbonate and epidote typically rim the sulphides.

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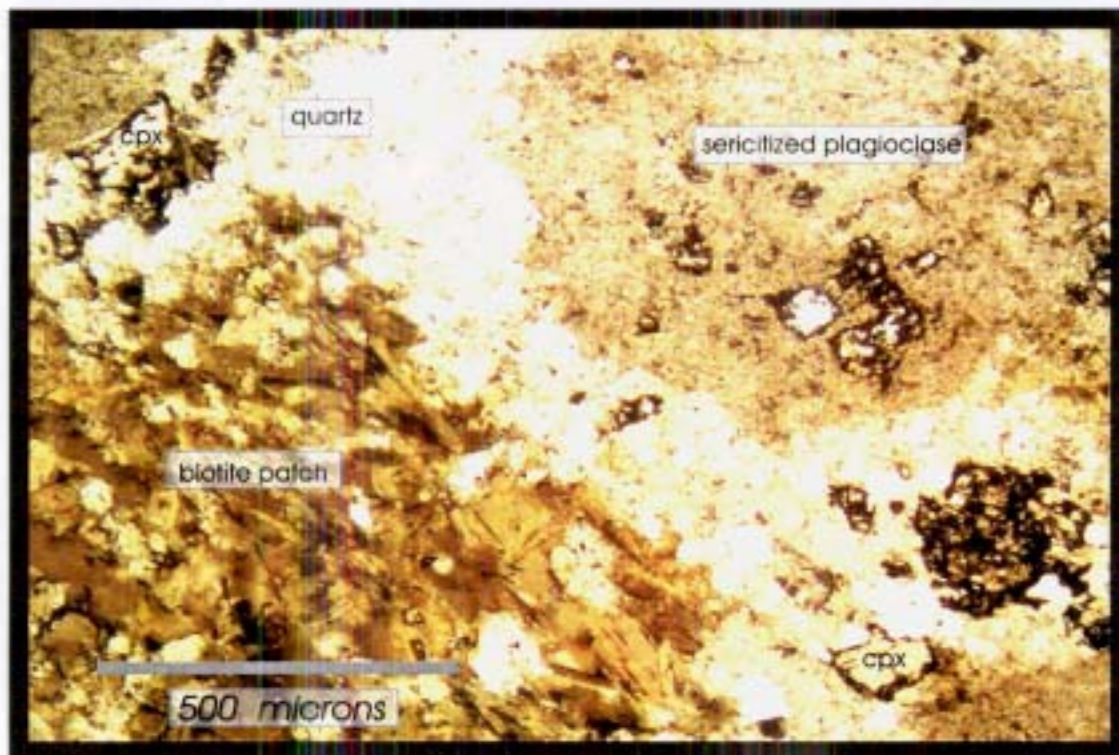


Figure 1. Sample KN-02-15-125. Typical view of turbid, sericitized plagioclase, biotite patch (possibly a completely altered amphibole) and higher relief clinopyroxene(cpx) surrounded by finer-grained quartz. Plane polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-15-625.85-625.95; Drill core	Job:	KM-103
Section Name and Type:	KN-02-15-626; Polished Thin Section	Date:	November 25, 2002
Petrographic Designation:	Altered Basalt (deuteric or hydrothermal)		
Protolith:	Basalt		

Mineralogy

Mineral	Estimated Modal %
Quartz	7
Plagioclase	35
Pyroxene	2
Amphibole (altered from pyroxene)	50
Chlorite	1
Sericite	trace
Magnetite	3
Ilmenite & Leucoxene	2
Pyrite	trace
Chalcopyrite	rare

Petrography

Fine- to medium-grained amphibole, plagioclase and minor magnetite and pyrite sit within a dark green aphanitic matrix of amphibole, plagioclase, quartz and minor pyroxene. The sample is in sharp contact with a zone of aphanitic basalt with few phenocrysts(possible chill margin?), which grades into another basalt containing amphibole, but no plagioclase phenocrysts.

Slender euhedral plagioclase phenocrysts are a turbid grey, containing pervasive black cryptocrystalline inclusions, extremely fine-grained(<10 microns) leucoxene and minor sericite.

Euhedral to subhedral amphibole phenocrysts have both greenish and bluish pleochroism; the bluer crystals may represent slightly sodic varieties. Most phenocrysts contain trace remnants of pyroxene; that and the 8-sided crystal outlines indicate that most if not all the amphibole derived from pyroxene.

The sample also contains relatively colourless and clear 4- to 6-sided phenocrysts containing a mosaic of quartz+magnetite±feldspar±amphibole±chlorite±leucoxene and which can be rimmed by extremely fine-grained magnetite±ilmenite.

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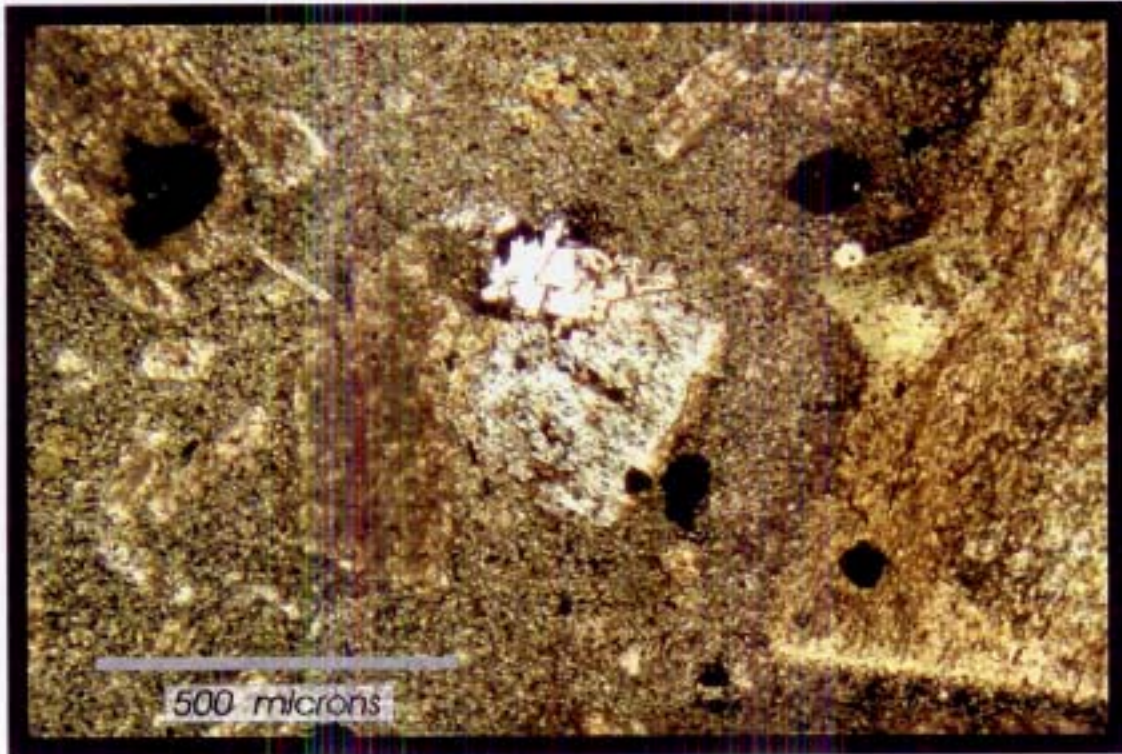
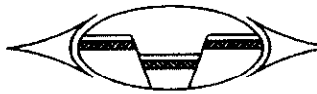


Figure 1. Sample KN-02-15-626. A basalt with a microphenocryst of a bluish-green amphibole in contact with clear pyroxene and turbid plagioclase along with other phenocrysts within a matrix of amphibole-feldspar-quartz-ilmenite-magnetite. Plane polarized transmitted light. 5x objective.



PETROGRAPHIC REPORT

Sample and Type:	KN-02-17-437.30-437.55; Box 75; Drill core	Job: KM-103
Section Name and Type:	KN-02-17-437; Polished Thin Section	Date: November 26, 2002
Petrographic Designation:	Sericitic, hematitic and propylitic porphyry	
Protolith:	Andesite Porphyry or Latite Porphyry	

Mineralogy

Mineral	Estimated Modal %
Quartz	trace
Plagioclase phenocrysts (sericitized)	45
Amphibole (var. hornblende) partially altered to chlorite-carbonate-epidote-sericite	10
Matrix (feldspar-leucoxene-magnetite-hematite-trace quartz)	42
Magnetite	2
Ilmenite	1
Pyrite	rare

Petrography

Fine- to medium-grained pale greenish-white to pale pinkish-white plagioclase laths and black hornblende phenocrysts sit within an orange-pink aphanitic matrix.

Under plane-polarized light, the plagioclase phenocrysts are almost indistinguishable from the matrix. The subhedral to euhedral laths are pervasively sericitized, with trace chlorite, rare epidote and rare carbonate; cryptocrystalline reddish-brown inclusions(hematite?) are widespread throughout and also thinly rim the grain boundaries. Twinning is indistinct, as are cleavage traces; plagioclase determination by extinction angles gives a poor estimate in the An₁₀ to An₂₅ range(albite to oligoclase).

Matrix feldspar is very fine-grained(10-50 microns), with lobate boundaries and a very pale reddish-brown turbid appearance due to the prevalent hematite(?) inclusions. It is not possible to determine the type of feldspar; if plagioclase, the sample is andesitic, if a significant amount is potassic, the sample is more of a latite porphyry.

Subhedral to euhedral hornblende phenocrysts are partially altered to propylite, a combination of chlorite-carbonate-epidote-sericite.

Minor thin hair veinlets of gypsum-carbonate-quartz crosscut the section.

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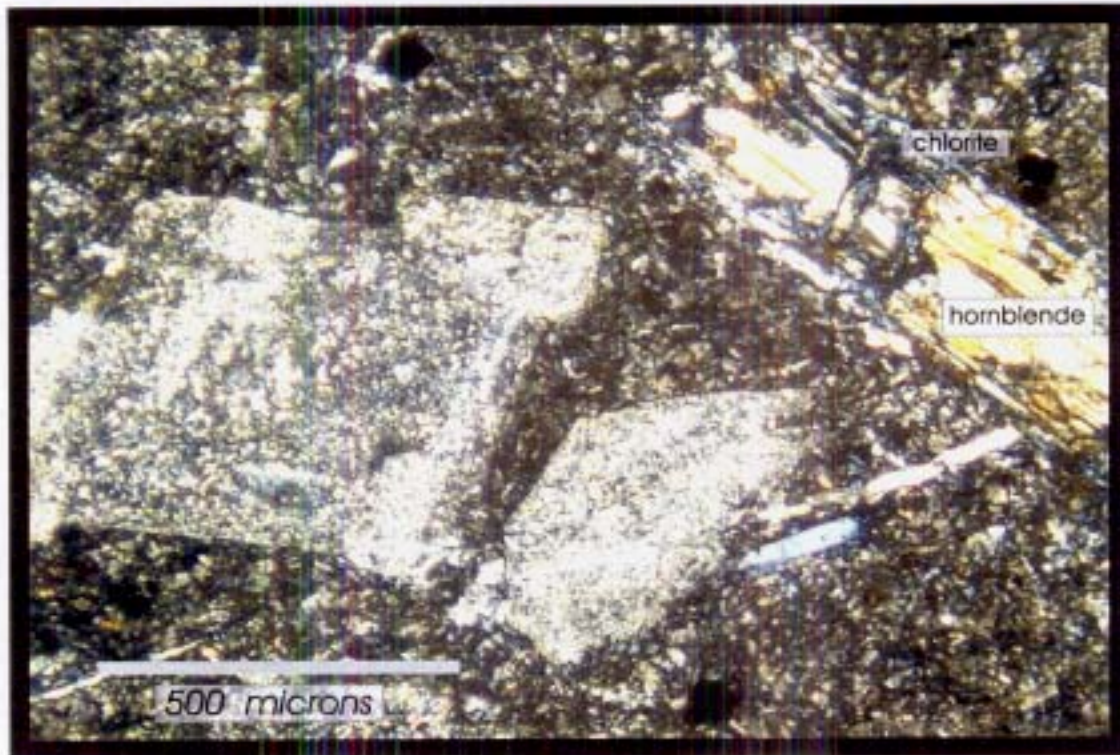


Figure 1. Sample KN-02-17-437. Sericitized plagioclase and propylitized hornblende within a very fine grained matrix of essentially feldspar. Cryptocrystalline reddish-brown hematite is scattered throughout the sample(not observed in cross polarized light). A thin veinlet of quartz-carbonate cuts the lower portion of the view. Cross polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-18-499.00-499.20; Box 90; Drill core	Job:	KM-103
Section Name and Type:	KN-02-18-499; Polished Thin Section	Date:	November 27, 2002
Petrographic Designation:	Fractured sericitic and chloritic porphyry		
Possible Protolith:	Andesite porphyry / Dacite porphyry / Latite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz	10
Feldspar phenocrysts (almost completely sericitized)	40
Ferromagnesian phenocrysts (completely altered to chlorite-quartz-carbonate±epidote group minerals)	12
Chlorite	30
Epidote group minerals	trace
Magnetite	1
Ilmenite & Leucoxene & Rutile	2
Apatite	trace
Pyrite	2
Chalcopyrite	3

Petrography

The sample has been extensively fractured and altered, with several generations of veinlets. Estimates of mineral abundances are difficult.

Fine-grained subhedral to anhedral feldspar laths (up to 1.5mm) are strongly sericitized and fractured with chlorite infill. Only simple, vague twin planes were observed in the feldspars (locally slightly offset by fracturing); comparative refractive indices show that these laths are either a low-An plagioclase or a potassic feldspar.

Slightly larger (up to 4mm) phenocrysts are composed of linear segregations of quartz-chlorite with variable accessory carbonate-ilmenite-leucoxene and local trace amounts of epidote-zoisite-chalcopyrite-pyrite. One such phenocryst contains an irregularly-shaped remnant of pyroxene or amphibole (tremolite?). It is believed that ferromagnesian minerals, probably pyroxene, had altered to the more fibrous uralite (accounting for the linear structures), which then altered to chlorite and quartz.

The matrix is composed of fine-grained chlorite-quartz-feldspar(?) - epidote-zoisite-apatite-ilmenite-leucoxene-magnetite-chalcopyrite-pyrite. Chlorite is commonly included and intergrown with ilmenite and leucoxene. A portion of the flakes contain acicular rutile in a criss-crossed sagenitic texture, indicative of alteration of biotite to chlorite.

The pervasive fractures are typically infilled with chlorite. The sample is also cross-cut with a myriad of fine veinlets, which are locally discontinuous. They typically contain quartz-chlorite-gypsum-carbonate-pyrite-chalcopyrite±epidote±zoisite; one rare vein contains radial chalcedony. Several veins have been fractured

with slight offsets; quartz has been sheared into linear slices; gypsum crystals appear slightly bent.

Because of the extensive alteration and the uncertainty regarding the type of feldspar, determination of the original protolith is difficult. Should the original feldspar be an intermediate plagioclase, the rock was an andesite porphyry. With increasing sodium and/or potassium, the rock would have been either a dacite porphyry or a latite porphyry.

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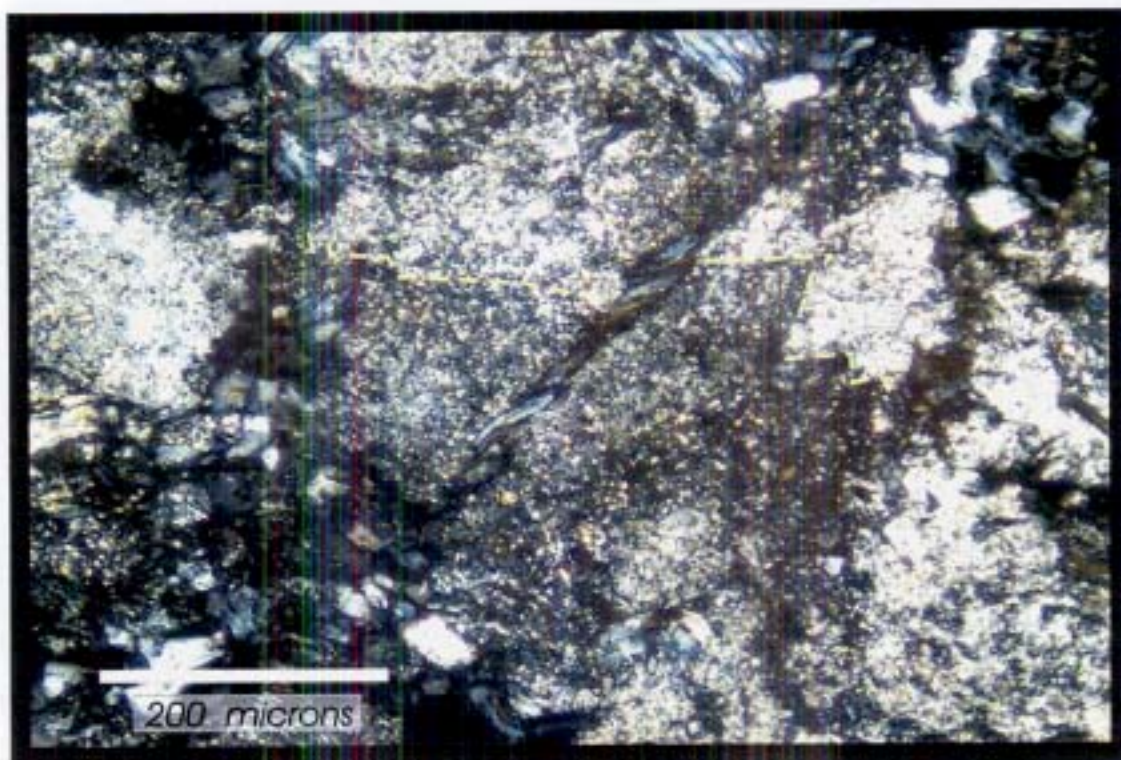


Figure 1 Sample KN-02-18-499. Sericitized feldspar cross-cut by a chloritic fracture in centre of photomicrograph. This feldspar exhibits a vague and serrate twin plane(dashed line), a common feature of most of the feldspars in this sample. Anomalous-blue chlorite is prevalent within fractures and between phenocrysts. Cross polarized transmitted light. 10x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-18-525.80-526.00; Box 90; Drill core	Job:	KM-103
Section Name and Type:	KN-02-18-526; Polished Thin Section	Date:	November 27, 2002
Petrographic Designation:	Patchy sericitic and chloritic porphyry(?)		
Possible Protolith:	Andesite porphyry / Dacite porphyry / Latite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz	7
Feldspar phenocrysts (almost completely sericitized)	45
Ferromagnesian phenocrysts (completely altered to chlorite-quartz-carbonate±epidote group minerals)	5
Chlorite	35
Epidote group minerals	trace
Magnetite and associated Hematite	2
Ilmenite & Leucoxene & Rutile	2
Apatite	trace
Pyrite	3
Chalcopyrite	1

Petrography

The sample has similar mineralogy as sample KN-02-18-499, but appears even more altered; feldspars here are fractured with the same chlorite infill, but are anhedral, with no twinning observed and grain boundaries that are indistinct, seemingly merging with the surrounding matrix. The matrix itself is a heterogeneous mixture of chlorite and quartz, with accessory epidote, apatite, pyrite, chalcopyrite and magnetite partially to completely altered to hematite. Fracturing is not as obvious; thin linear zones of chlorite may represent altered breaks in the sample.

Chlorite has the same anomalous-blue interference colour, and commonly includes leucoxene and acicular rutile, producing a brownish-green hue when viewed from a distance.

A smaller percentage of anhedral zones(former ferromagnesian phenocrysts?) are composed of linear segregations of quartz-chlorite with variable accessory carbonate-ilmenite-leucoxene and local trace amounts of epidote-zoisite-chalcopyrite-pyrite.

Minor veining contains quartz-chalcedony-chlorite-epidote(with reddish-brown haloes)-carbonate-pyrite-chalcopyrite-magnetite-hematite-gypsum.

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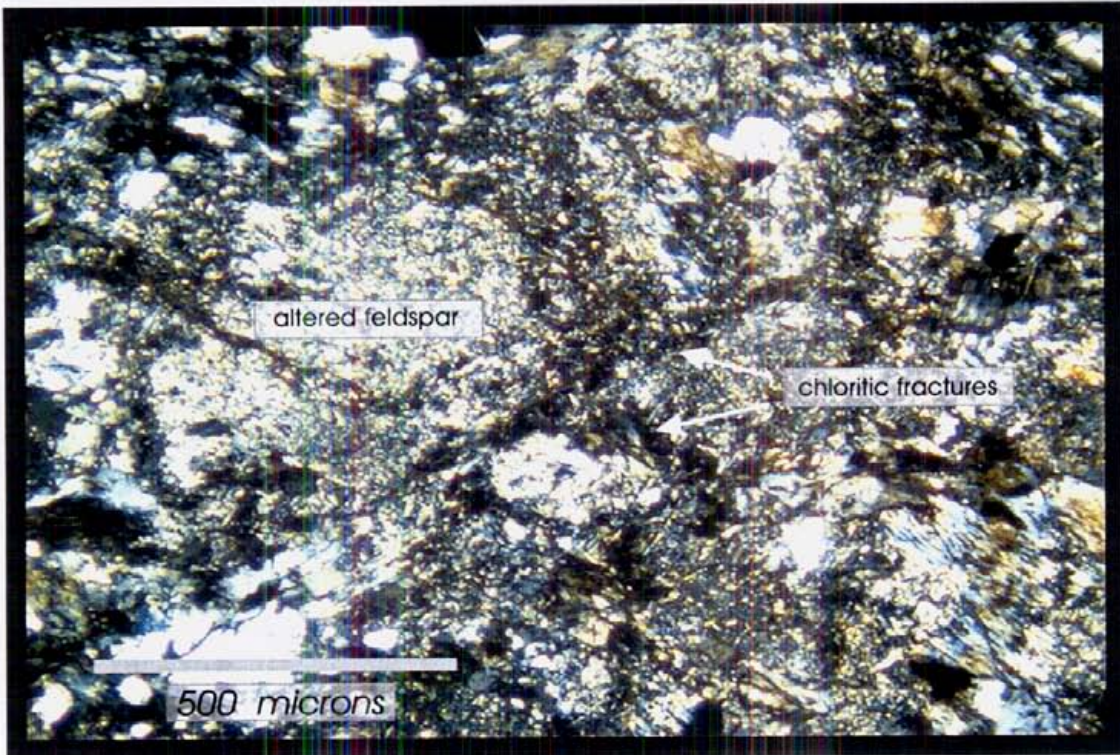


Figure 1. Sample KN-02-18-526. Anhedral sericitized feldspar cross-cut by chloritic fractures within a chlorite-quartz matrix. Cross polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-21-284.49-284.64; Drill core	Job:	KM-103
Section Name and Type:	KN-02-21-285; Polished Thin Section	Date:	November 20, 2002
Petrographic Designation:	Chloritic, silicic and sericitic quartz-eye porphyry.		
Possible Protolith:	Quartz-eye: Dacite porphyry / Quartz Latite porphyry / Rhyolite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz - phenocrysts("eyes")	5
- matrix	37
Feldspar (completely sericitized)	15
Chlorite	38
Epidote	1
Magnetite	very rare
Ilmenite & Leucoxene & Rutile	2
Apatite	trace
Pyrite	1
Chalcopyrite	1

Petrography and Alteration

Vaguely lath-shaped patches of completely sericitized feldspar, irregular patches of pale brownish-green chlorite and minor square to rectangular quartz phenocrysts("quartz eyes") sit in a matrix of extremely fine-grained equigranular quartz with accessory chlorite, epidote, leucoxene, rutile and apatite. Minor pyrite and chalcopyrite are disseminated throughout.

Chlorite tends to occur in irregularly-shaped, tightly intergrown patches, which may represent altered ferromagnesian minerals. The interference colour is up to first order yellow, rather than the anomalous-blue observed in previous samples(e.g. KN-02-18-499, 526). Fine-grained leucoxene and ilmenite are common inclusions.

The amount of alteration and lack of distinctive textures makes identifying the protolith extremely difficult. The abundance of matrix quartz may be due to either silicification or the fact the sample was originally highly siliceous(rhyolitic). The abundant chlorite may be due to completely altered ferromagnesian minerals or the influx of Mg-, Fe- and Al-bearing siliceous fluids.

The sample is cut by minor veinlets consisting of gypsum-chlorite-quartz±pyrite±chalcopyrite.

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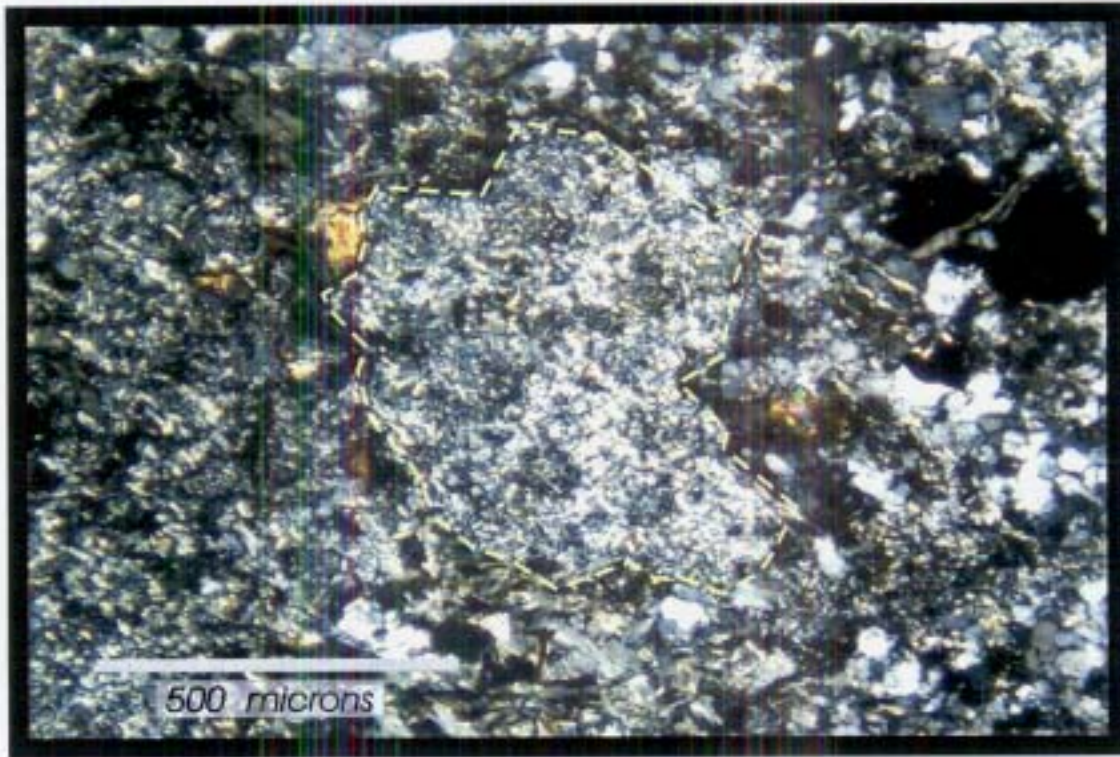


Figure 1. Sericitized feldspar (outline in green) within fine-grained chlorite, quartz and minor epidote (higher interference colours). Cross polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-21-285.85-286.00; Box 52; Drill core	Job:	KM-103
Section Name and Type:	KN-02-21-286; Polished Thin Section	Date:	November 29, 2002
Petrographic Designation:	Biotitic volcanic rock		
Possible Protolith:	Dacite porphyry / Quartz Latite porphyry / Rhyolite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz phenocrysts ("eyes")	4
Feldspar phenocrysts(?) (completely altered)	8
Ferromagnesian phenocrysts (completely altered)	15
Biotite	40
Matrix (quartz - feldspar - minor biotite)	25
Chlorite	trace
Epidote	rare
Magnetite	2
Ilmenite & Leucoxene & Rutile	2
Apatite	trace
Pyrite	3
Chalcopyrite	1

Petrography

The sample is a very fine-grained heterogeneous mixture of biotite and quartz-feldspar patches with what appears to be completely altered ferromagnesian and feldspar phenocrysts, and minor square to doubly terminated quartz phenocrysts.

Subhedral, 6- to 8-sided phenocrysts up to about 800 microns contain felted masses of either talc or sericite; if talc, it probably altered from serpentine. The phenocrysts are commonly included with minor biotite and chlorite and are typically surrounded by masses of tightly intergrown biotite, forming dark brown to black patches in hand sample. They are believed to represent completely altered ferromagnesian minerals, possibly pyroxene.

The sample contains a number of very indistinct, lath-shaped zones of intergrown feldspar(?) strongly included with cryptocrystalline dark brown to black minerals and quartz, with minor rutile, leucoxene, ilmenite and rare epidote. These zones may represent altered feldspar phenocrysts, or may just be part of the matrix.

Determination of the protolith has been made extremely difficult by the amount of alteration in the sample.

Minor veining consists of quartz-biotite-chlorite-pyrite-chalcopyrite±gypsum. An alteration halo of increased quartz, sericite, and chloritized biotite occurs up to 600 microns away from one veinlet, forming a bleached zone in hand sample.

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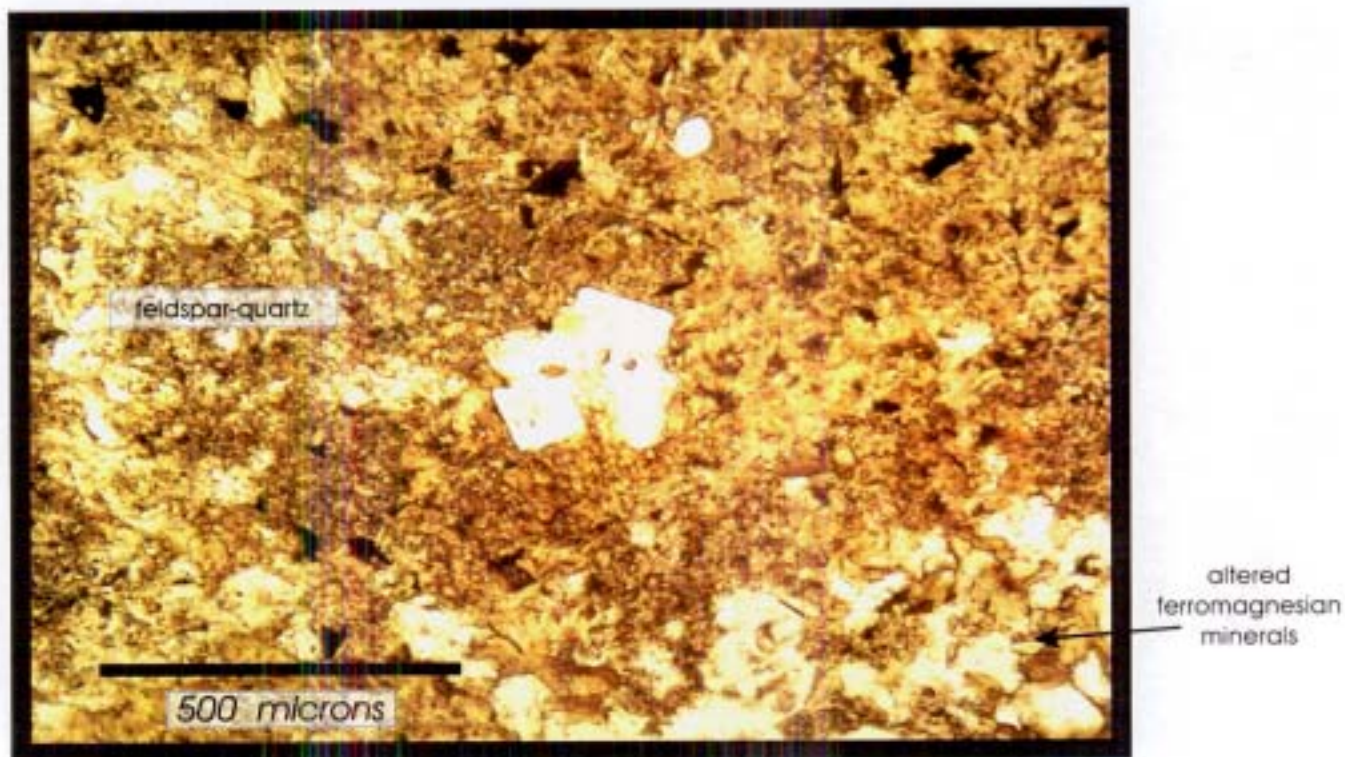


Figure 1. Sample KN-02-21-286. Grouping of quartz phenocrysts ("eyes") within a fine-grained and patchy matrix of biotite-ilmenite-leucoxene and feldspar(?) - quartz. Translucent grains in lower right corner are believed to be completely altered ferromagnesian minerals.
Plane polarized transmitted light, 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-22-43; Drill core	Job:	KM-103
Section Name and Type:	KN-02-22-43; Polished Thin Section	Date:	November 29, 2002
Petrographic Designation:	Sericitic and chloritic volcanic with limonitic fractures		
Possible Protolith:	Andesite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz	39
Sericitized feldspar	30
Chlorite ± Talc	20
Carbonate	rare
Epidote	rare
Rutile	1
Pyrite	10
Chalcopyrite	rare

Petrography

The sample is a patchy pale green and pale tan with translucent to opaque white patches and indistinct laths. Minor fractures are coated with a deep orange-yellow limonite, most of which appears to have been removed during preparation of the polished thin section, leaving an amorphous pale-brown discolouration in parts of the section.

Vaguely lath-shaped zones rich in sericite with subordinate quartz make up most of the section. The pale green patches appear to be a mixture of chlorite and possibly a much finer-grained talc; these patches are also vaguely lath-like in shape and may represent ferromagnesian phenocrysts. Matrix quartz and sericite contain common very fine-grained rutile grains. Fine- to medium-grained pyrite occurs as equant, subhedral to anhedral grains with straight to irregular, lobate boundaries. A small pyrite grain adjacent one limonitic fracture may have been the source of the iron; although almost all of the pyrite in the section appears fresh, with minor oxidized surface coatings.

The sample occurs 43 metres down a drill hole; it is possible that meteoric water was able to flow through the rock, carrying and precipitating iron oxides along the fractures.

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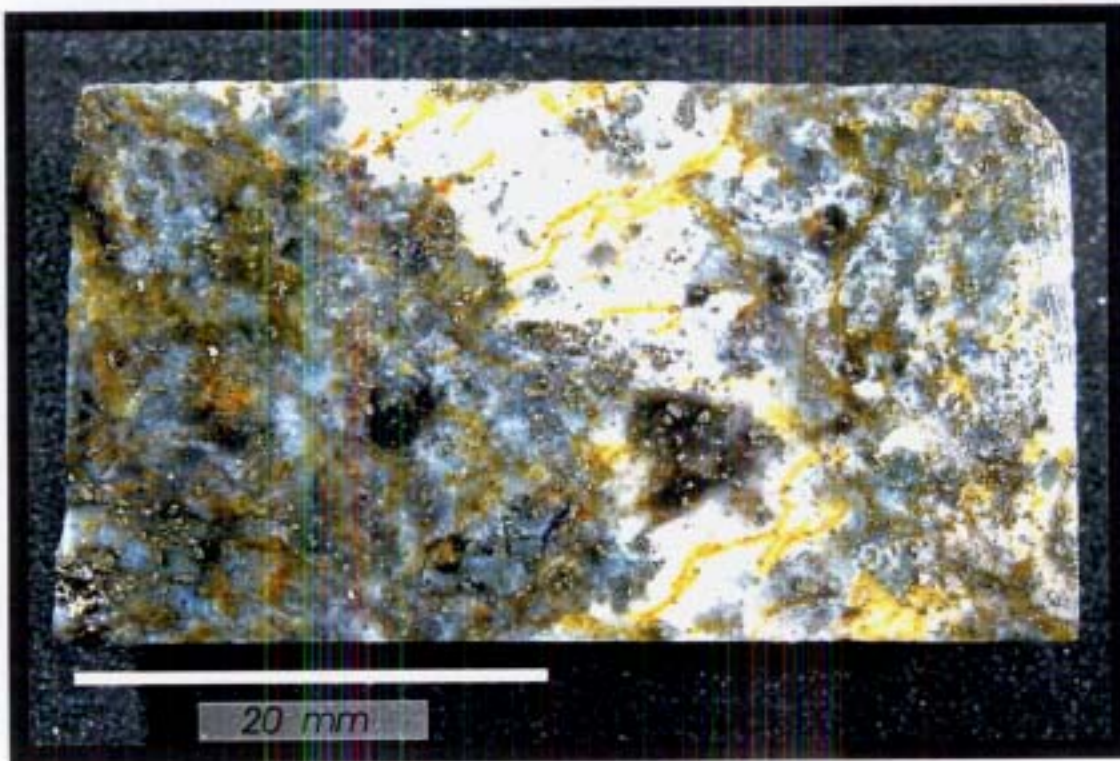


Figure 1a. Sample KN-02-22-43. Limonitic fractures cross-cut a sericite-chlorite-quartz-rich rock. Darker areas consist of quartz, sericite, rutile and pyrite. White areas are rich in sericite and quartz and may represent altered feldspar phenocrysts.

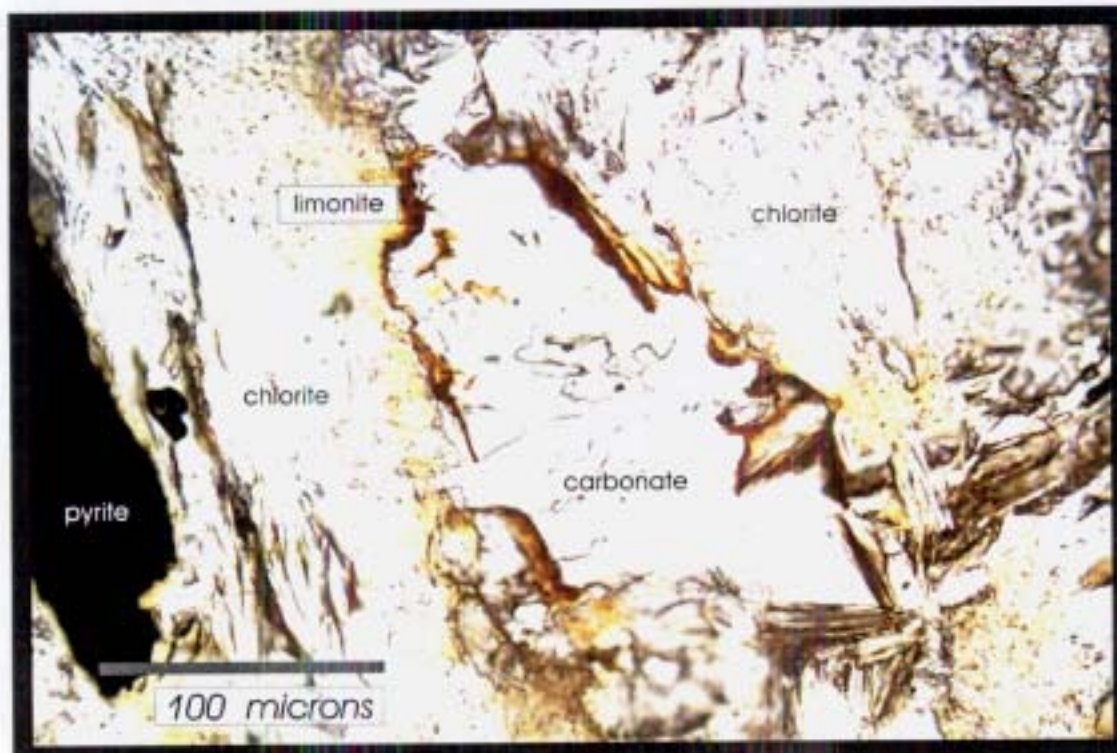


Figure 1b. Same sample as above, showing a gradational yellowish "stain" of limonite through portions of chlorite. Partially plucked carbonate is in the center. Plane polarized transmitted light. 20x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-25-471.73-471.84; Drill core	Job:	KM-103
Section Name and Type:	KN-02-25-472; Polished Thin Section	Date:	December 2, 2002
Petrographic Designation:	Chloritic volcanic rock		
Possible Protolith:	Basalt / Andesite		

Mineralogy

Mineral	Estimated Modal %
Quartz phenocrysts	3
Feldspar and Ferromagnesian minerals(?) (chloritic and sericitic)	40
Matrix (chlorite-quartz-feldspar-minor rutile-leucoxene-trace sericite-rare epidote)	50
Pyrite	7

Petrography

The sample consists of fine-grained(100 microns) and slender, and larger(up to 1mm) and stubbier feldspar laths (and possibly altered ferromagnesian laths) partially to completely inundated by very fine-grained very pale brownish to greenish chlorite. Less common are equant to vaguely lath-shaped zones of very fine-grained aggregates of quartz-feldspar(?) -sericite-chlorite.

Minor quartz microphenocrysts(averaging about 300 microns in size) consist of several grains of intergrown quartz, possibly new-grain development during stress.

The phenocrysts sit within a very fine-grained(≤ 40 micron) matrix of quartz, very pale brownish chlorite, feldspar, minor dark brown rutile and grey leucoxene, trace sericite and rare epidote.

Scattered throughout are fine-grained equant to irregular and lobate pyrite grains, typically surrounded by greenish chlorite.

Cross-cutting the sample are common veinlets of quartz-chalcedony-pyrite-gypsum-chlorite, with trace epidote and calcite and rare chalcopyrite. The adjacent wallrock is slightly bleached, and contains more quartz, less chlorite than the rest of the sample.

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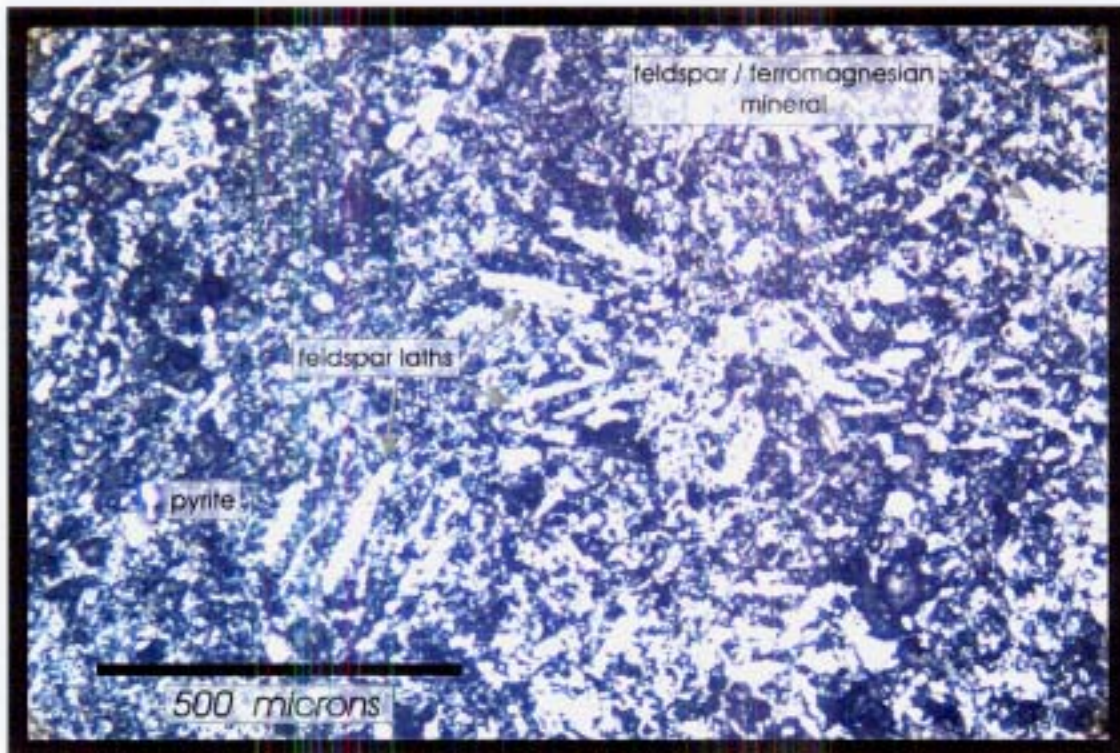


Figure 1a. Sample KN-02-25-472. Overview of the fine-grained slender laths of feldspar within a finer-grained matrix of quartz-feldspar-chlorite. The reflected light highlights the feldspar laths better than a transmitted light view. Plane polarized reflected light, 5x objective.

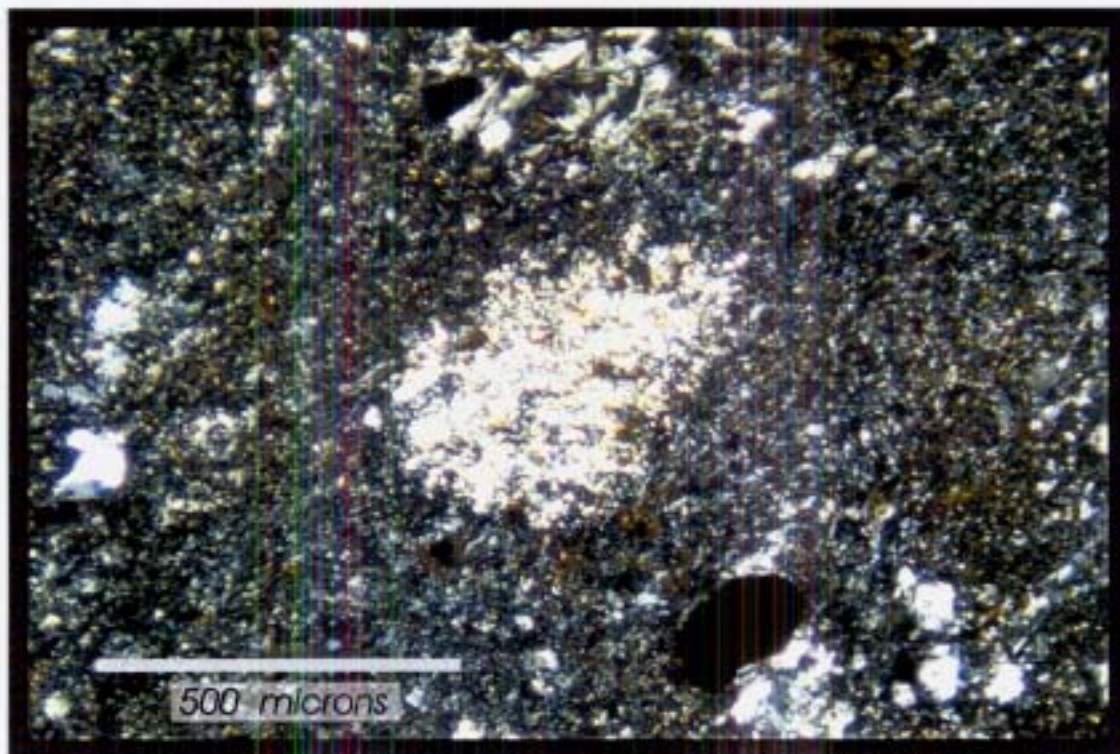


Figure 1b. Sample KN-02-25-472. Aggregate of fine-grained quartz-sericite-chlorite within a very fine-grained matrix of quartz-feldspar-chlorite. The dark brown grains are rutile. Cross polarized transmitted light, 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-27-39.66-39.67; Drill core	Job:	KM-103
Section Name and Type:	KN-02-27-40; Polished Thin Section	Date:	December 2, 2002
Petrographic Designation:	Sericitic, propylitic and hematitic quartz diorite porphyry		
Protolith:	Quartz diorite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz phenocrysts	10
Plagioclase phenocrysts (sericite and carbonate alteration)	30
Hornblende phenocrysts (completely altered to chlorite-carbonate±epidote±leucoxene)	20
Magnetite Phenocrysts	3
Matrix (quartz, minor feldspar-sericite-magnetite)	35
Carbonate	trace
Epidote	trace
Apatite	rare
Ilmenite & Rutile & Leucoxene	trace
Sphene	rare
Pyrite	very rare
Hematite	trace

Petrography

Fine- to medium-grained subhedral to euhedral phenocrysts of quartz, plagioclase, hornblende and magnetite occur within a pale pink aphanitic matrix consisting principally of tightly intergrown quartz with minor feldspar, sericite, ilmenite and magnetite; cryptocrystalline dark reddish-brown hematite(?) is disseminated throughout the plagioclase phenocrysts and in between the quartz grains in the matrix.

Quartz phenocrysts occur as euhedral stubby prisms and squares, to anhedral, rounded grains. A few exhibit corrosion textures, where lobes of fine-grained matrix penetrate the phenocrysts.

Plagioclase is partially altered to sericite ± carbonate, with variable disseminated cryptocrystalline dark reddish-brown hematite; the edges of plagioclase are typically dusted with hematite. Polysynthetic twin planes are moderately distinct.

Hornblende is completely altered to an assemblage of chlorite-carbonate ± epidote ± leucoxene ± ilmenite ± magnetite ± sericite. Two remnant grains of pyrite within hornblende lie within concentrically zoned hematite.

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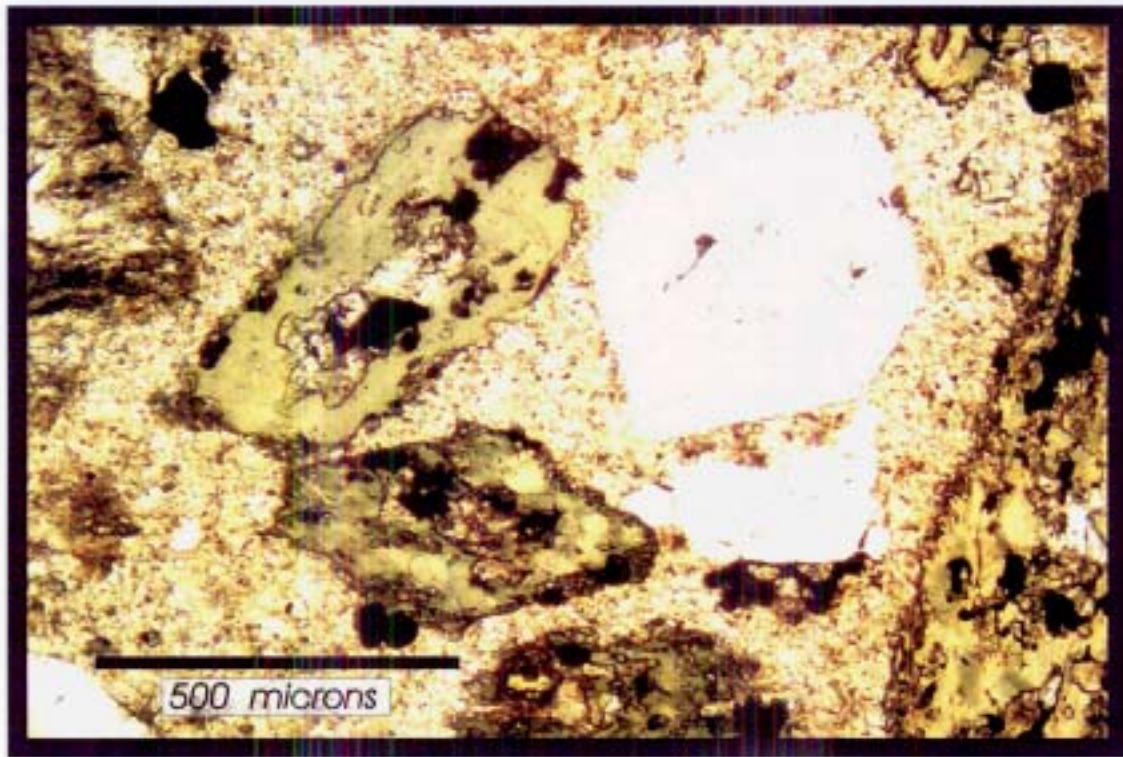


Figure 1. Sample KN-02-27-40. Quartz and hornblende phenocrysts lie within a very fine-grained and hematitic, quartz-rich matrix. The hornblende phenocrysts have completely altered to a chlorite-carbonate-leucoxene assemblage with minor magnetite. Plane polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-27-60.68-60.81; Drill core	Job:	KM-103
Section Name and Type:	KN-02-27-61; Polished Thin Section	Date:	December 3, 2002
Petrographic Designation:	Sericitic, hematitic quartz diorite porphyry		
Protolith:	Quartz diorite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz phenocrysts	10
Plagioclase phenocrysts (variably sericitic and hematitic; rare replacement by gypsum)	50
Hornblende phenocrysts (partially altered to chlorite-leucoxene \pm biotite \pm epidote \pm carbonate)	10
Magnetite phenocrysts	4
Matrix (principally quartz with feldspar-magnetite-carbonate-chlorite-apatite)	25
Ilmenite, Rutile, and Leucoxene	1
Sphene	rare

Petrography

Plagioclase in the oligoclase to andesine range of composition appears less altered than the sample at 41m. Phenocrysts range from weakly to moderately sericitic, with variable amounts of cryptocrystalline dark reddish brown (hematitic) inclusions; in hand sample they appear an opaque white to various shades of pinkish orange. Where cross-cut by thin gypsum-bearing veinlets, several plagioclase crystals are partially replaced by gypsum; gypsum typically includes bright orange-red iron oxides/hydroxides, which also colours the altered plagioclase.

Hornblende is partially altered to more fibrous amphibole, with variable chlorite-leucoxene \pm biotite-epidote-carbonate. A number of grains have their fibres pushed apart to include chalcedony or epidote.

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plagioclase replaced by hematitic gypsum

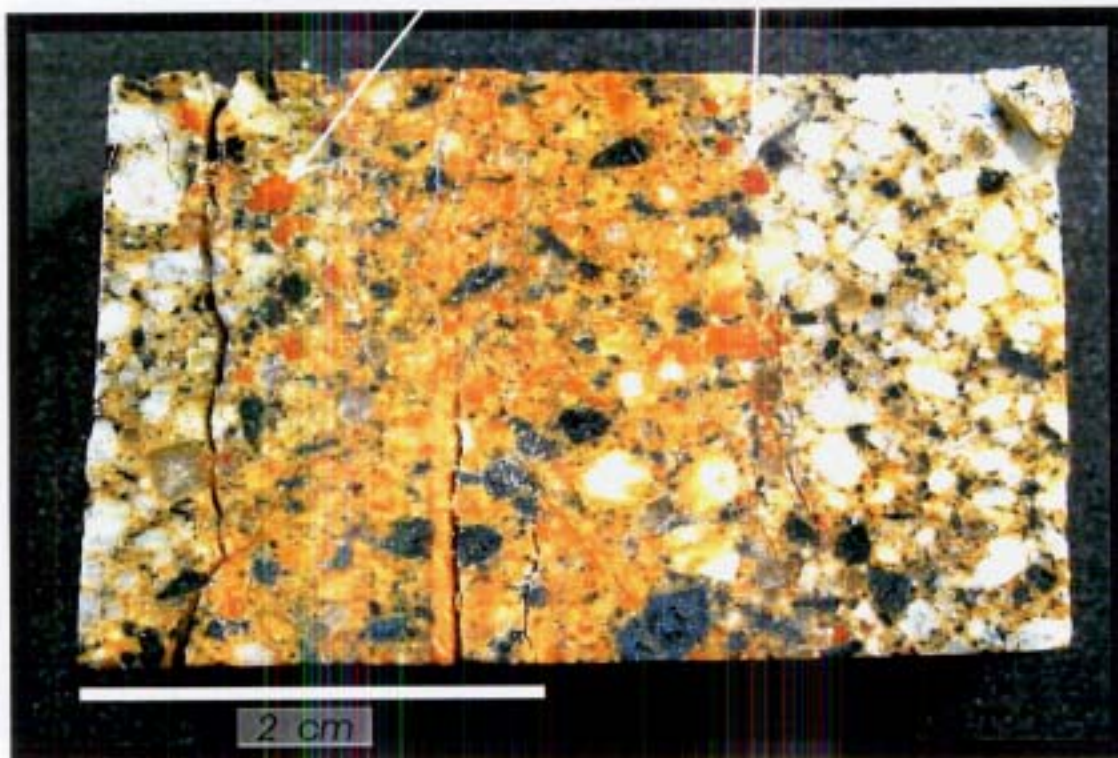


Figure 1a. Sample KN-02-27-61. Drill core cutoff showing the moderate to strong pinkish-orange staining by iron oxides/hydroxides, surrounding a gypsum-bearing veinlet. The more intense reddish-orange colouration is due to partial replacement of plagioclase by hematitic gypsum.

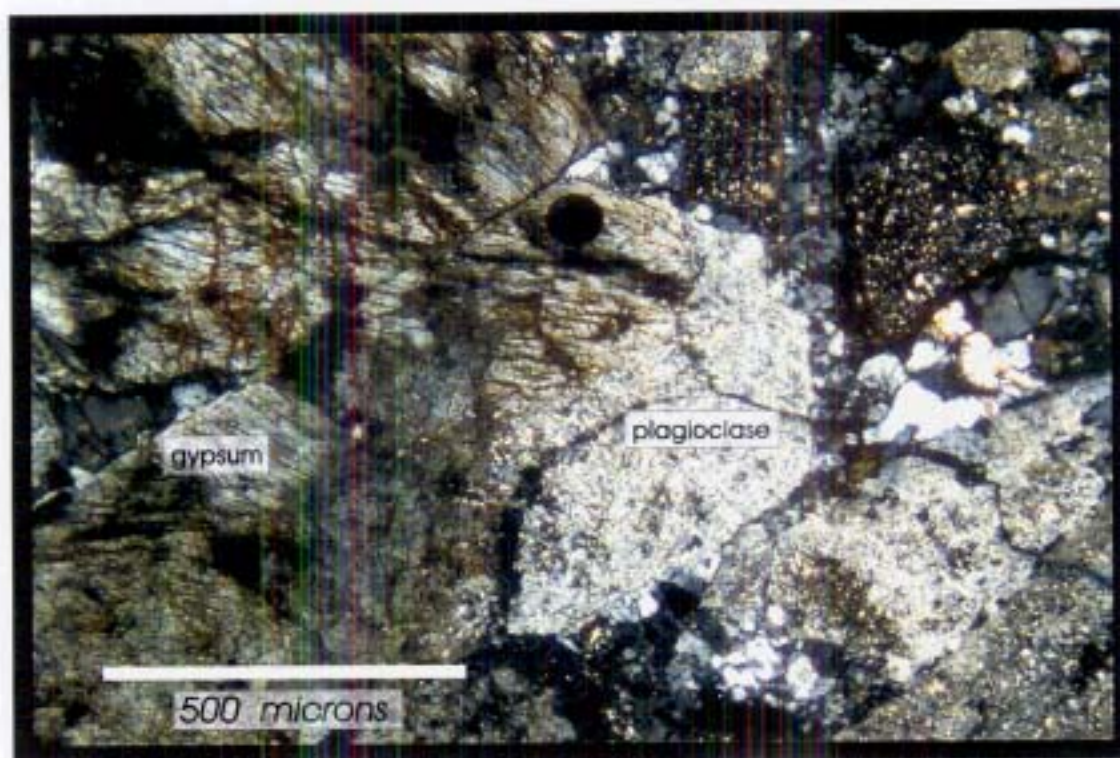
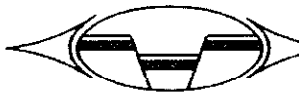


Figure 1b. Sample KN-02-27-61. Sericitic plagioclase partially replaced by hematitic gypsum.

Cross polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-27-100.74-100.88: Drill core	Job:	KM-103
Section Name and Type:	KN-02-27-101; Polished Thin Section	Date:	December 3, 2002
Petrographic Designation:	Gypsum and hematite-rich quartz diorite porphyry		
Protolith:	Quartz diorite porphyry		

Mineralogy(does not include gypsum veining)

Mineral	Estimated Modal %
Quartz phenocrysts	10
Feldspar phenocrysts(plagioclase & possible K-feldspar)	50
Amphibole phenocrysts	8
Magnetite phenocrysts	5
Chlorite	2
Matrix (quartz-feldspar-chlorite-epidote-leucoxene-rutile-magnetite-carbonate-rare apatite)	25
Chalcopyrite	rare

Alteration

Fine- to medium-grained euhedral to subhedral feldspar laths are typically slightly turbid, with a clear, very pale brownish-red colouration or stain, and appear a pale pinkish-white in hand sample. They have weak sericite \pm epidote alteration. The pervasive gypsum veining throughout the sample has resulted in the minor to almost complete replacement of the feldspar with hematitic gypsum, turning the laths a bright reddish-orange in hand sample.

Subhedral, rarely euhedral amphibole phenocrysts have been completely altered to variable uralite-chlorite-biotite-carbonate-epidote-leucoxene.

Gypsum veins also contain minor carbonate, chlorite and trace amounts of epidote. The veins surround the phenocrysts, altering the feldspars and amphiboles, leaving the quartz intact.

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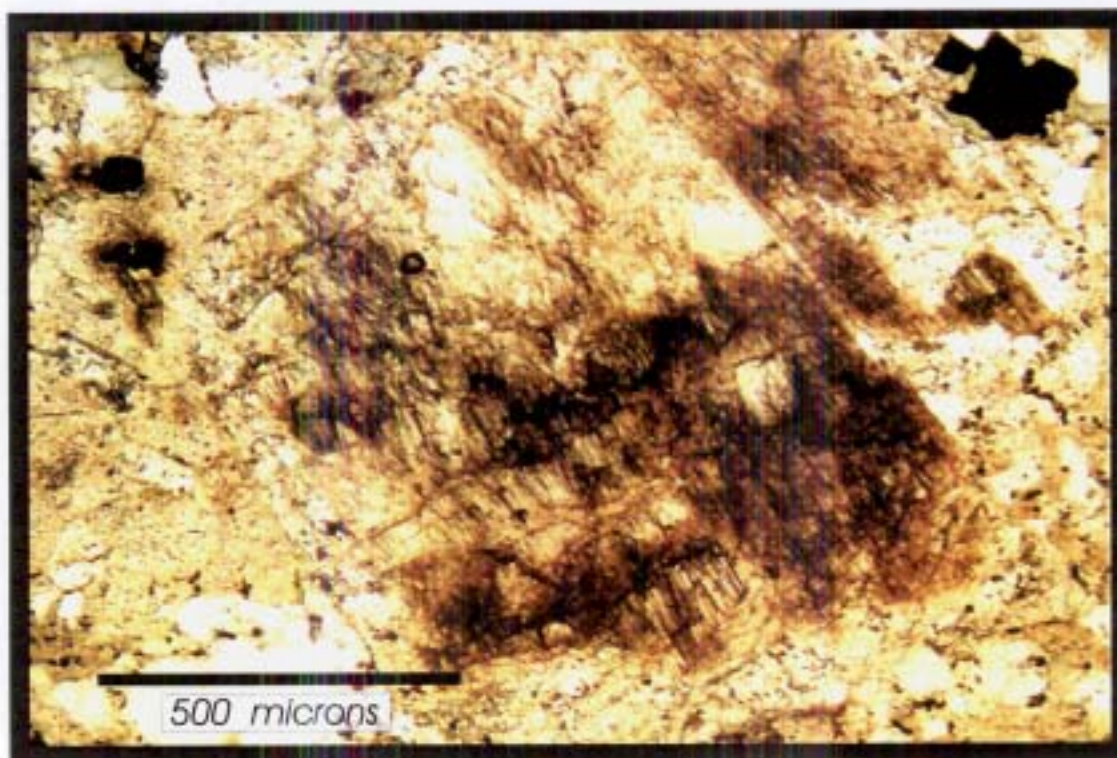


Figure 1a. Sample KN-02-27-101. Dark reddish-brown hematitic gypsum partially replaces a pale reddish-brown feldspar lath. Plane polarized transmitted light. 5x objective.

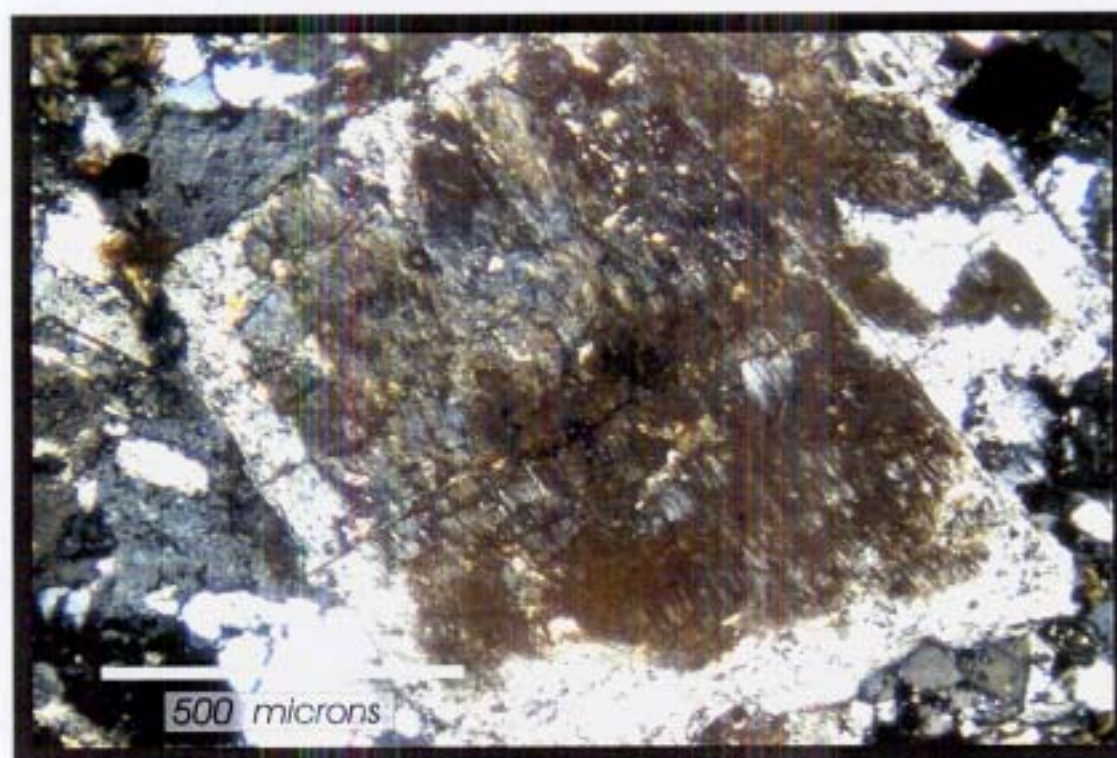
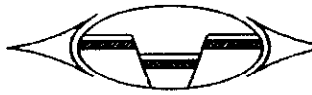


Figure 1b. Same view as above. Note the rim of sericitic feldspar surrounding the core of gypsum. Cross polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-28-196.0-196.2; Box 42; Drill core	Job:	KM-103
Section Name and Type:	KN-02-28-196; Polished Thin Section	Date:	December 3, 2002
Petrographic Designation:	Biotitic basalt		
Protolith:	Basalt		

Mineralogy

Mineral	Estimated Modal %
Quartz	2
Plagioclase (sericitic)	65
Clinopyroxene	7
Biotite	20
Chlorite	1
Magnetite	trace
Ilmenite & Leucoxene	2
Pyrite	2
Chalcopyrite	1

Petrography

Subhedral and broken laths of fine- to medium-grained plagioclase are a turbid, light grey; they contain common very fine-grained sericite and cryptocrystalline black inclusions. Contacts with the matrix tend to be slightly irregular.

The plagioclase and clinopyroxene phenocrysts sit within a very fine-grained (up to 100 microns) matrix of feldspar and dark green biotite, with minor quartz, leucoxene, ilmenite and chlorite.

The sample is cross-cut by a number of veinlets. The most common are very thin (40 micron average width) hair veinlets of quartz-clinopyroxene. A larger veinlet (1.6mm width) contains quartz-magnetite-clinopyroxene, with minor pyrite-chalcopyrite-sericite-chlorite-epidote. The adjacent wallrock contains less biotite and more clinopyroxene and magnetite. A third veinlet contains mainly quartz and clinopyroxene, with pyrite, chalcopyrite and epidote.

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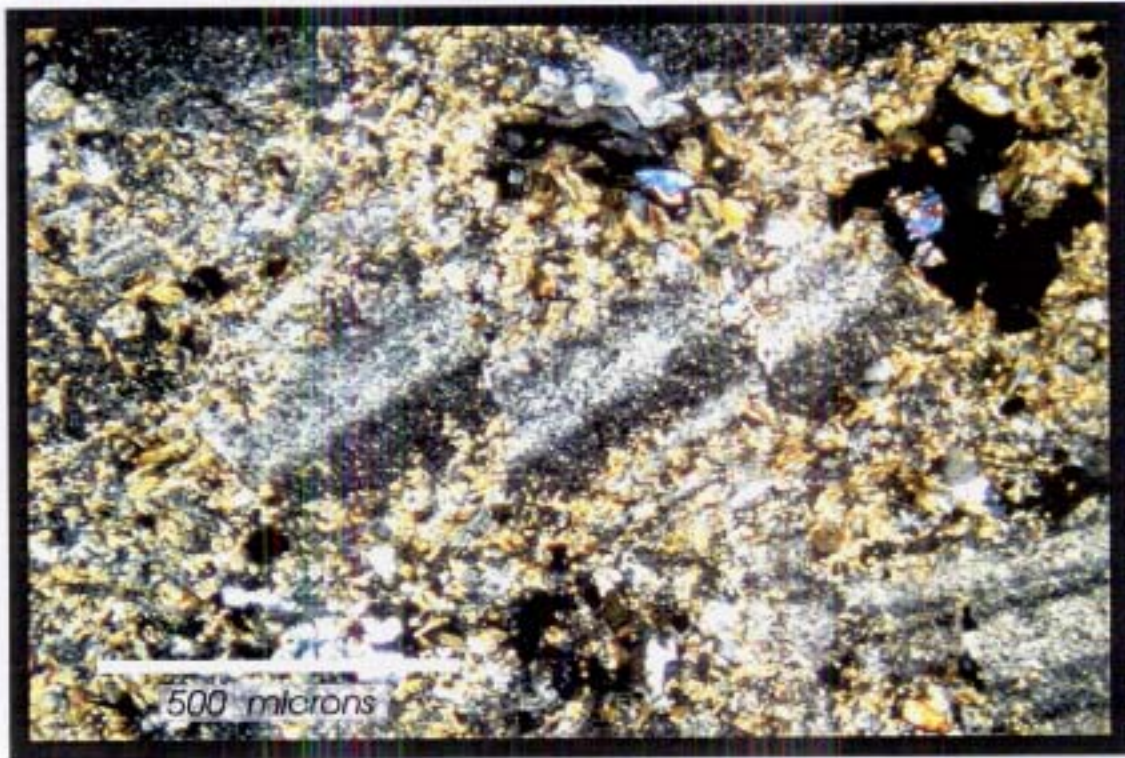


Figure 1. Sample KN-02-28-196. Broken and offset sericitic plagioclase lath set in a fine-grained matrix of biotite-feldspar-quartz-clinopyroxene, with minor opaque pyrite. Cross polarized transmitted light, 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-30-165.9-166.1; Drill core	Job:	KM-103
Section Name and Type:	KN-02-30-166; Polished Thin Section	Date:	December 4, 2002
Petrographic Designation:	Magnetite-perovskite(?) endoskarn		
Possible Protolith:	Andesite Porphyry		

Mineralogy (Least altered)

Mineral	Estimated Modal %
Quartz	3
Plagioclase (turbid, slightly sericitic)	40
Amphibole (actinolite & hornblende)	rare
Chlorite (with included leucoxene and lesser rutile)	3 - 5
Muscovite	1
Epidote	rare
Magnetite	trace
Matrix (plagioclase, lesser quartz, chlorite, trace biotite ± K-feldspar)	50
Pyrite	1

Mineralogy (Most altered)

Mineral	Estimated Modal %
Quartz	30
Plagioclase (magnetite & perovskite(?) inclusions)	30
Amphibole (actinolite & hornblende)	3
Perovskite(?)	30
Epidote	trace
Magnetite	7
Zircon	trace

Petrography

The sample consists of a medium grey fine- to medium-grained porphyry containing white and grey laths, which grades into an amoeboid-shaped alteration zone made up of a dark green rim and an inner core of fine-grained pale to dark orange grains with scattered fine-grained and black minerals.

Within the least altered portion of the sample, subhedral laths of plagioclase phenocrysts have a turbid appearance due to minor cryptocrystalline dark grey inclusions, fluid inclusions and minor sericite, biotite, chlorite and leucoxene. Minor intergrown chlorite clots may represent altered ferromagnesian minerals. Within the much finer-grained (<150 micron) matrix, grain boundaries are irregular and lobate.

Within the green alteration zone, the plagioclase becomes more turbid with additional cryptocrystalline inclusions and fine-grained (<50 micron) subhedral magnetite crystals. Long prismatic crystals of actinolite occur, either loosely intergrown with quartz or as individual crystals within the matrix. Minor stubbier and darker green amphibole (hornblende) also occurs; a few exhibit a bluish-green pleochroism, suggesting a sodic component to the mineral. The matrix contains less feldspar and more quartz.

Within the inner alteration core, plagioclase is almost completely selectively replaced with fine-grained magnetite and overprinted with pale brownish-orange, granular aggregates of what is tentatively identified as perovskite (CaTiO₃). Quartz is the most common matrix mineral and is intergrown with amphibole, magnetite, perovskite(?), zircon and epidote.

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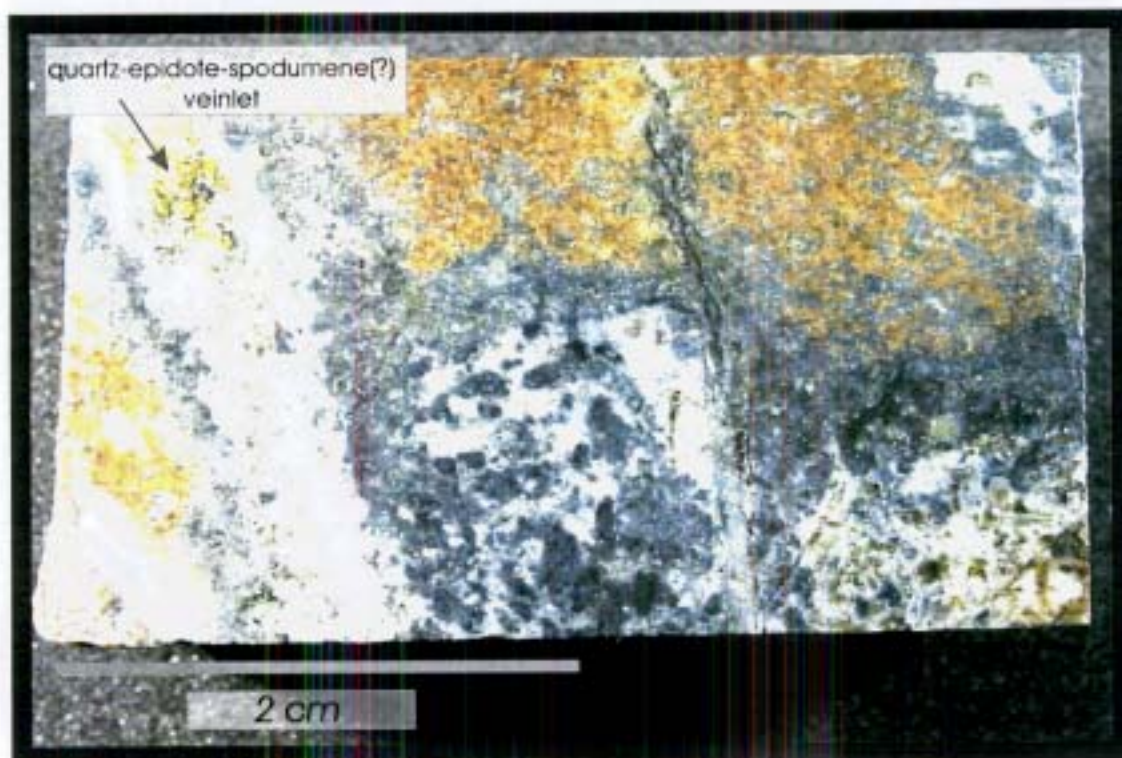


Figure 1. Sample KN-02-30-166. Drill core cutoff of an altered porphyry. White and grey laths of altered plagioclase grade into a greenish-grey zone richer in magnetite and amphibole. This rims a brownish-orange patchy zone containing granular aggregates of perovskite(?). The sample is cut by a veinlet of quartz-epidote-spodumene(?) with turbid white feldspar selvages.

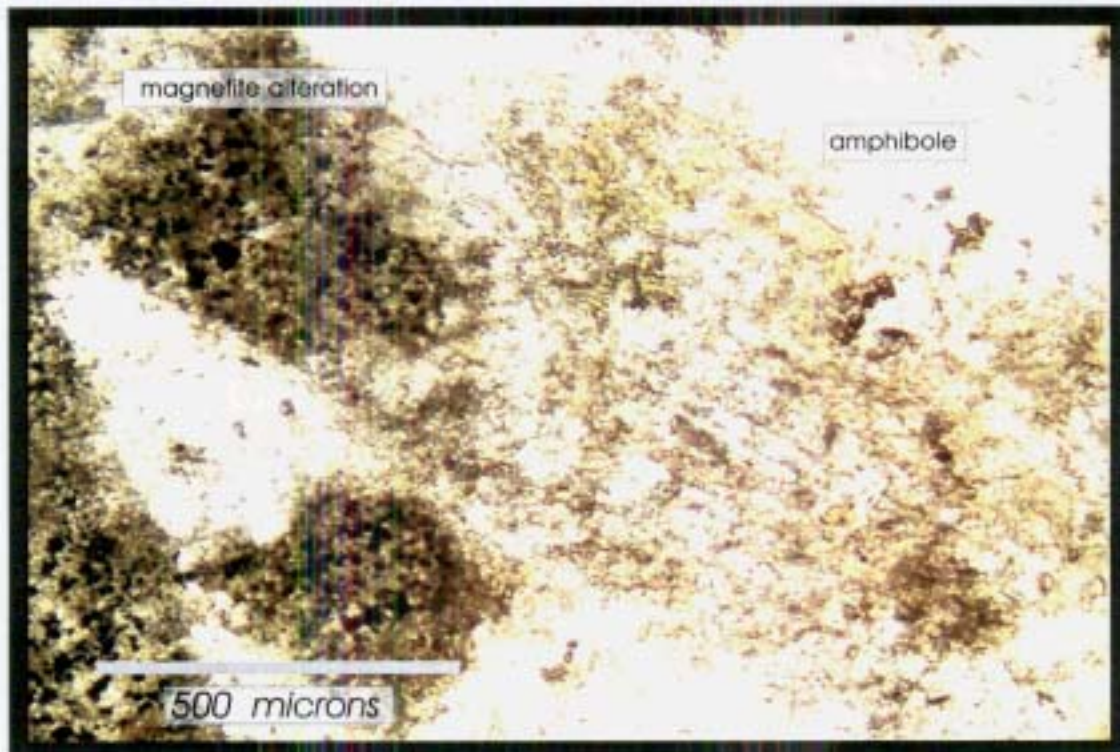


Figure 2a. Sample KN-02-30-166. Turbid plagioclase partially replaced by magnetite and cryptocrystalline inclusions. Other plagioclase laths in the lower left side of the photomicrograph are completely altered. An amphibole-rich aggregate is adjacent the main plagioclase. Plane polarized transmitted light. 5x objective.

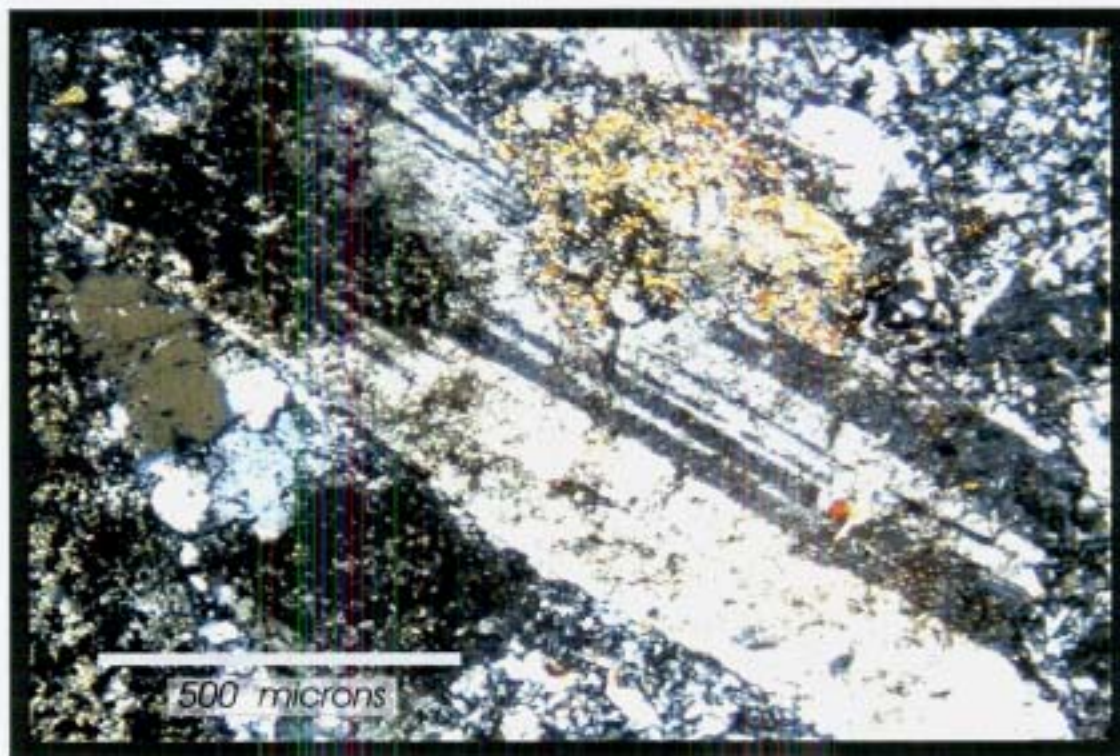


Figure 2b. Same view as above. Note the feldspar-rich matrix. This will change to a quartz-rich aggregate in the more altered zones of the sample. Cross polarized transmitted light. 5x objective.

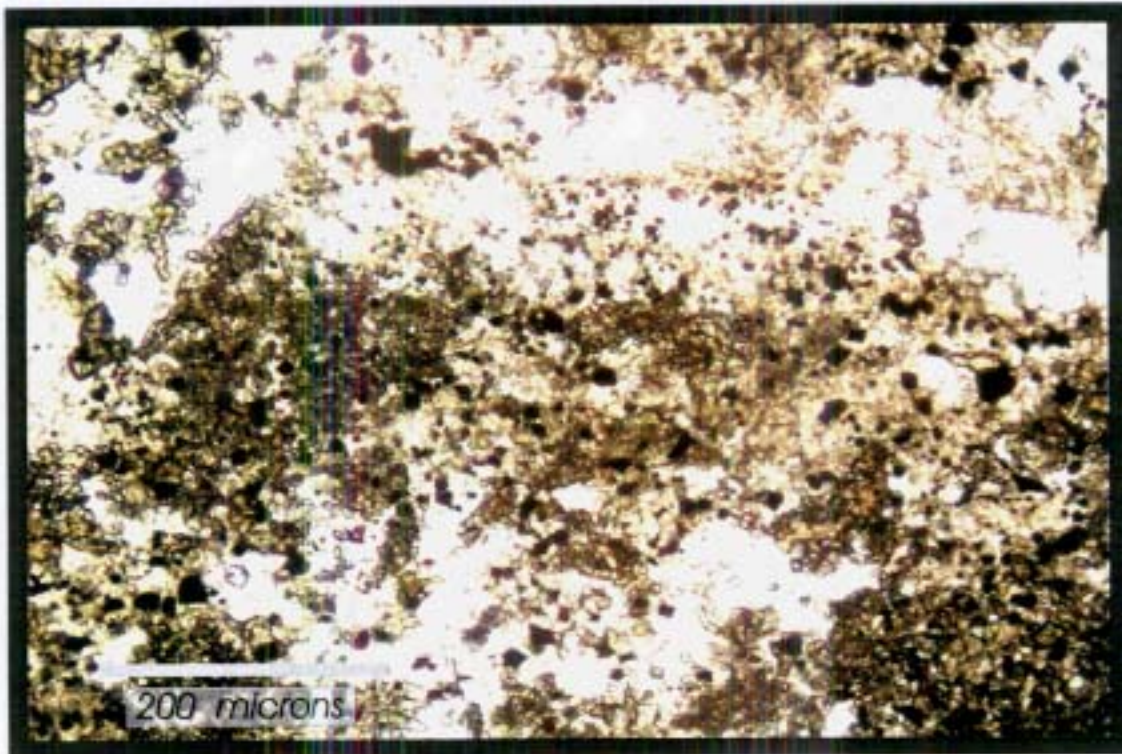


Figure 3a. Sample KN-02-30-166. Plagioclase lath in orange alteration zone is almost completely inundated with fine-grained magnetite(black) and orange-brown to brown perovskite(?). Plane polarized transmitted light. 10x objective.

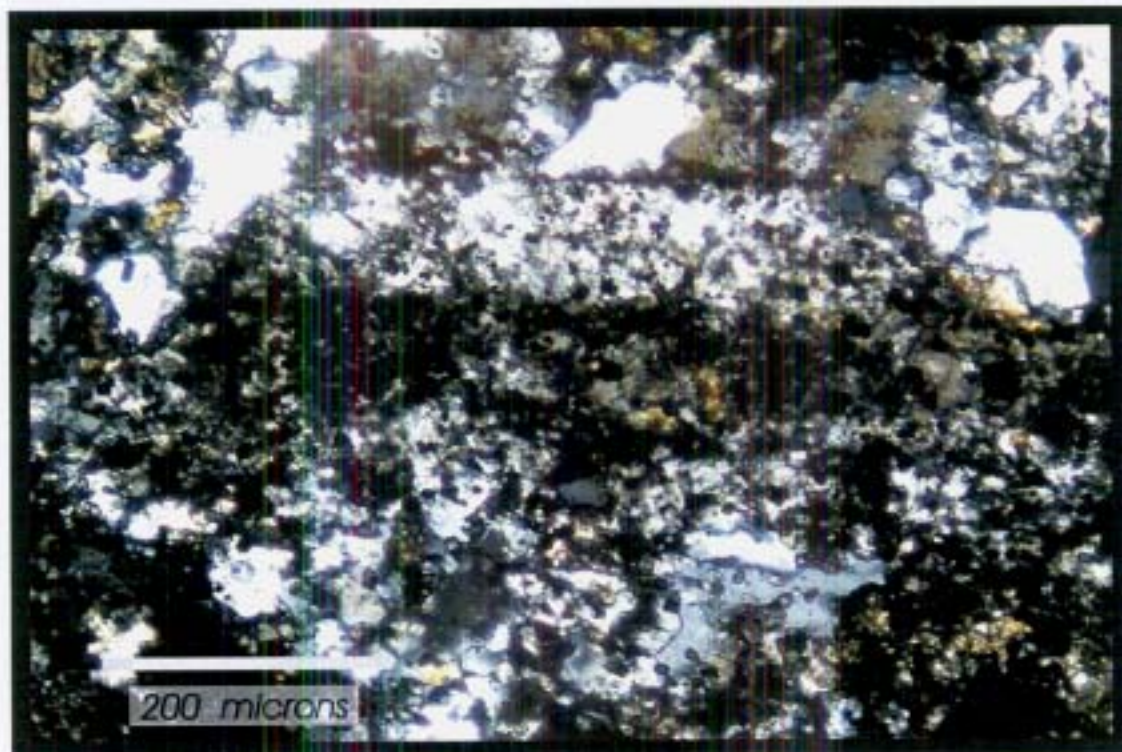
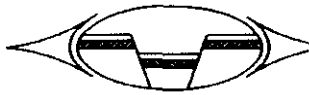


Figure 3b. Same view as above, showing the twinned plagioclase lath within a quartz-rich matrix. Cross polarized transmitted light. 10x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-50-19.45; Drill core	Job:	KM-103
Section Name and Type:	KN-02-50-19; Polished Thin Section	Date:	December 5, 2002
Petrographic Designation:	Andesite Porphyry - sericitic and propylitic alteration		
Protolith:	Andesite Porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz	rare
Plagioclase(minor sericite)	50
Amphibole (includes trace pyroxene altered to uraltite)	4
Chlorite	15
Matrix (feldspar-chlorite-leucoxene)	23
Epidote	1
Magnetite (& minor hematite)	1
Ilmenite & Leucoxene & Rutile	5
Pyrite	1
Chalcopyrite	trace

Petrography

Common fine- to medium-grained, white to pale greenish-white slender to stubby plagioclase laths and lesser amphibole phenocrysts occur within an aphanitic matrix of feldspar, chlorite and leucoxene.

Plagioclase is a moderately to strongly turbid reddish-brown, with common cryptocrystalline reddish-brown inclusions, with minor sericite, chlorite, rutile, leucoxene and epidote. One plagioclase determination based on extinction angles placed it in the oligoclase category.

Amphibole occurs as anhedral to subhedral grains of a typically fibrous texture. It is commonly intergrown with carbonate \pm sericite \pm chlorite \pm epidote \pm quartz. A few crystals have a bluish-green pleochroism, suggesting there is a sodic component. A few fibrous amphibole crystals have an 8-sided outline, indicating the original mineral was a pyroxene.

Chlorite occurs as irregular clots with vaguely crystalline outlines(typically discontinuously rimmed by leucoxene) as well as very fine fracture fillings within the matrix. It is typically included with leucoxene and ilmenite.

One side of the polished thin section has the matrix inundated with very fine-grained magnetite.

The sample is cross-cut by a veinlet containing pyrite-calcite-chlorite-epidote-chalcopyrite-quartz. Adjacent one side is an linear alteration zone that in hand sample appears white and aphanitic. Plagioclase has developed more irregular boundaries and contains more inclusions of sericite; under plane polarized light, the phenocrysts appear indistinguishable from the matrix. The alteration zone also has a decreased abundance of chlorite and leucoxene and slightly greater amounts of quartz(up to about 5 modal%)

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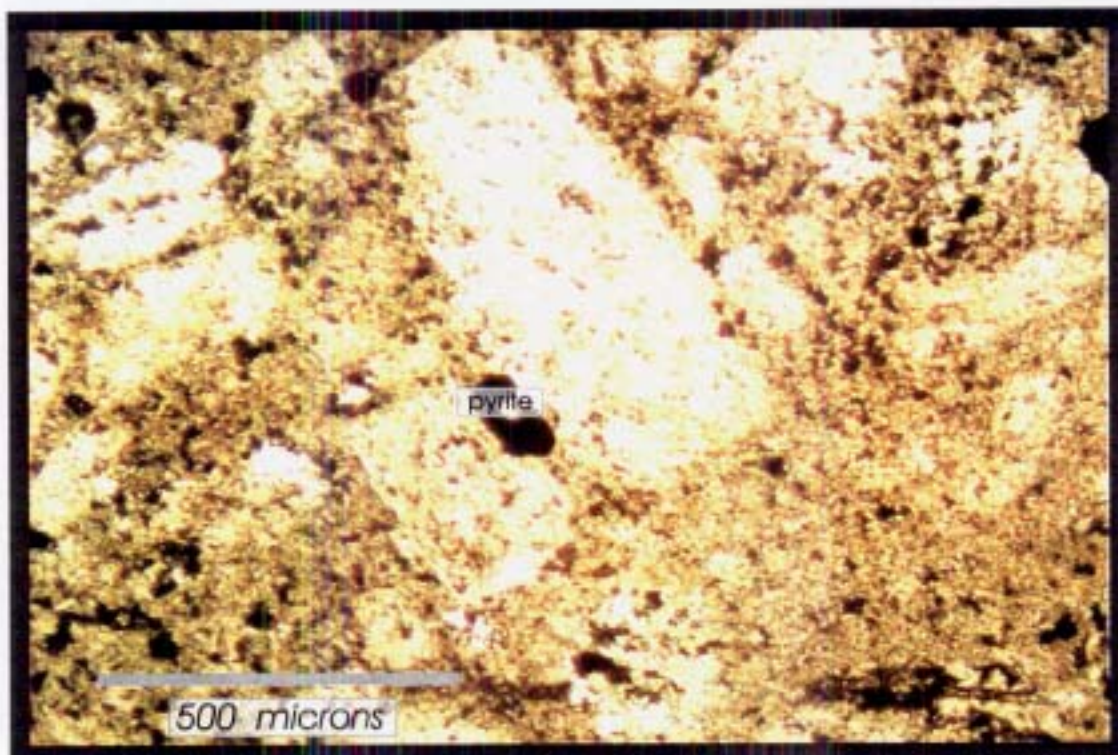


Figure 1a. Sample KN-02-50-19. Plagioclase and chlorite lie within a reddish-brown matrix of feldspar-chlorite-ilmenite-leucoxene. One pyrite grain is at the centre. Plane polarized transmitted light. 5x objective.

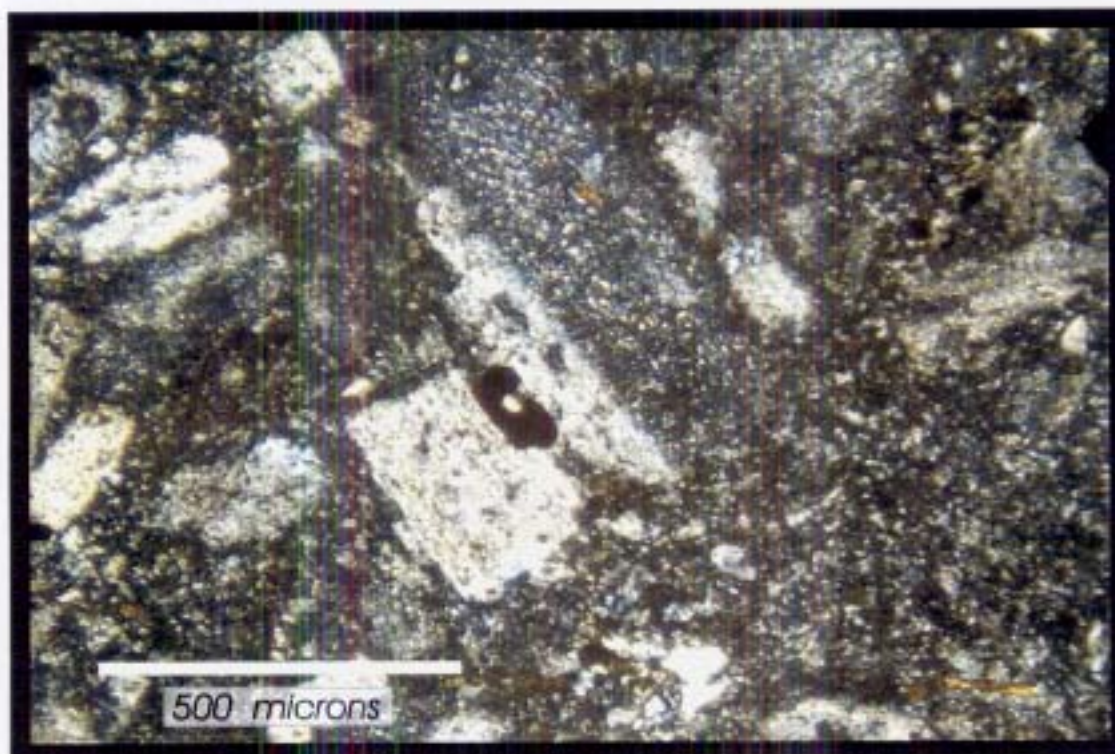


Figure 1b. Same view as above.

Cross polarized reflected light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-50-202.25; Drill core	Job:	KM-103
Section Name and Type:	KN-02-50-202; Polished Thin Section	Date:	December 6, 2002
Petrographic Designation:	Basalt (uralitization of pyroxene)		
Protolith:	Basalt		

Mineralogy

Mineral	Estimated Modal %
Plagioclase Phenocrysts (minor sericite, chlorite and biotite; rare epidote)	30
Clinopyroxene Phenocrysts (partial to complete uralitization)	15
Magnetite	10
Matrix (plagioclase-amphibole-leucoxene-magnetite-biotite)	45
Chalcopyrite	rare

Petrography

Fine- to medium-grained moderately stubby laths of plagioclase, clinopyroxene and equant magnetite sit within a medium grey matrix of finer-grained to aphanitic plagioclase, amphibole, magnetite, leucoxene, magnetite and biotite.

Phenocrysts of plagioclase are slightly sericitic and moderately to strongly turbid, due to inclusions of leucoxene, chlorite and biotite.

Euhedral to subhedral crystals of clinopyroxene are partially to completely altered to fibrous and more massive varieties of amphibole, typically along fractures and crystal boundaries. A few amphiboles exhibit bluish-green pleochroism, suggestive of a sodic component.

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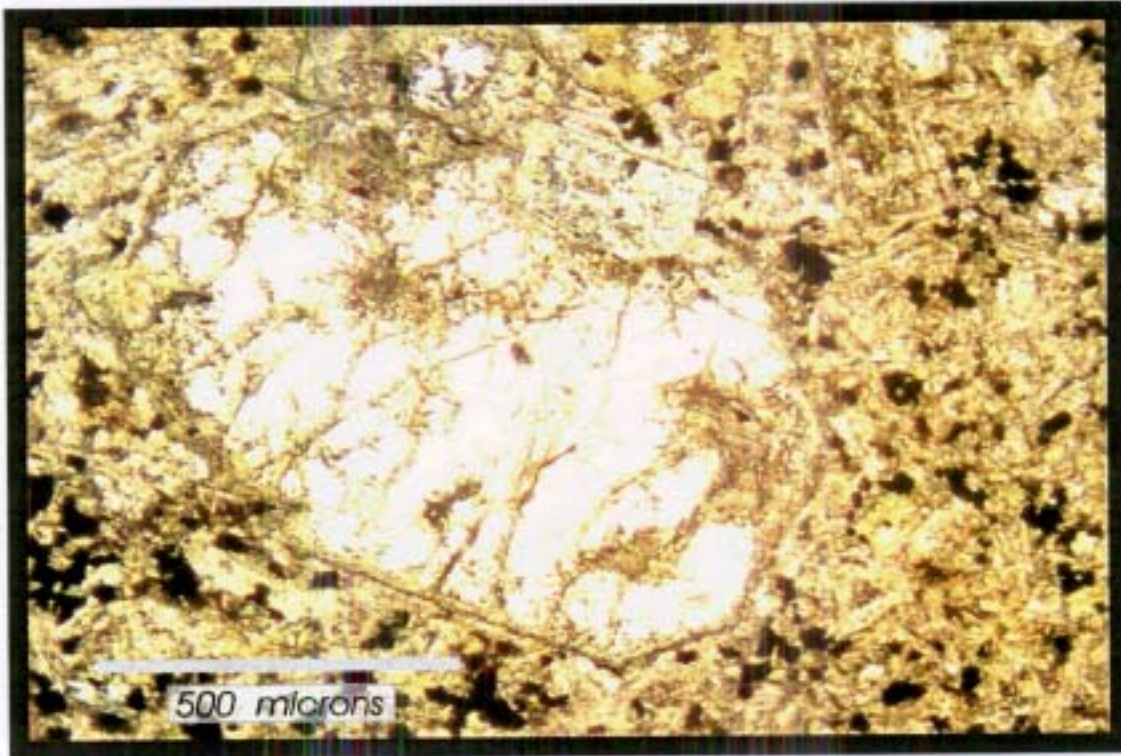


Figure 1. Sample KN-02-50-202. Largest pyroxene phenocryst partially altered to amphibole; several smaller crystals show almost complete replacement by amphibole. They sit in a matrix of finer-grained plagioclase, magnetite and pyroxene completely altered to amphibole.
Plane polarized transmitted light. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-50-408.78-409.05; Box 78; Drill core	Job:	KM-103
Section Name and Type:	KN-02-50-409; Polished Thin Section	Date:	December 9, 2002
Petrographic Designation:	Biotite-magnetite-epidote heterolithic volcanic breccia.		
Possible Protolith:	Volcanic fragmental breccia		

Petrography

The section is composed essentially of lapilli-sized and subrounded andesitic and/or dacitic clasts with equigranular and aphanitic, to porphyritic textures. They are both clast- and matrix-supported; the matrix consists of medium- to coarse-grained quartz phenocrysts with aphanitic quartz-feldspar-biotite and lesser amphibole-magnetite-epidote.

Dark green biotite is common throughout both the clasts and matrix, comprising up to about 40-50 modal% of the section. Amphibole typically exhibits patchy alteration and may either be a primary constituent or have altered from pyroxene. Epidote makes up about 5 modal% of the section and occurs within altered amphiboles and within the matrix. About 5 modal% fine-grained magnetite, 1 modal% pyrite and rare chalcopryrite are disseminated throughout.

Textures which could indicate the sample's origin(e.g. flow or weld textures) were not observed.

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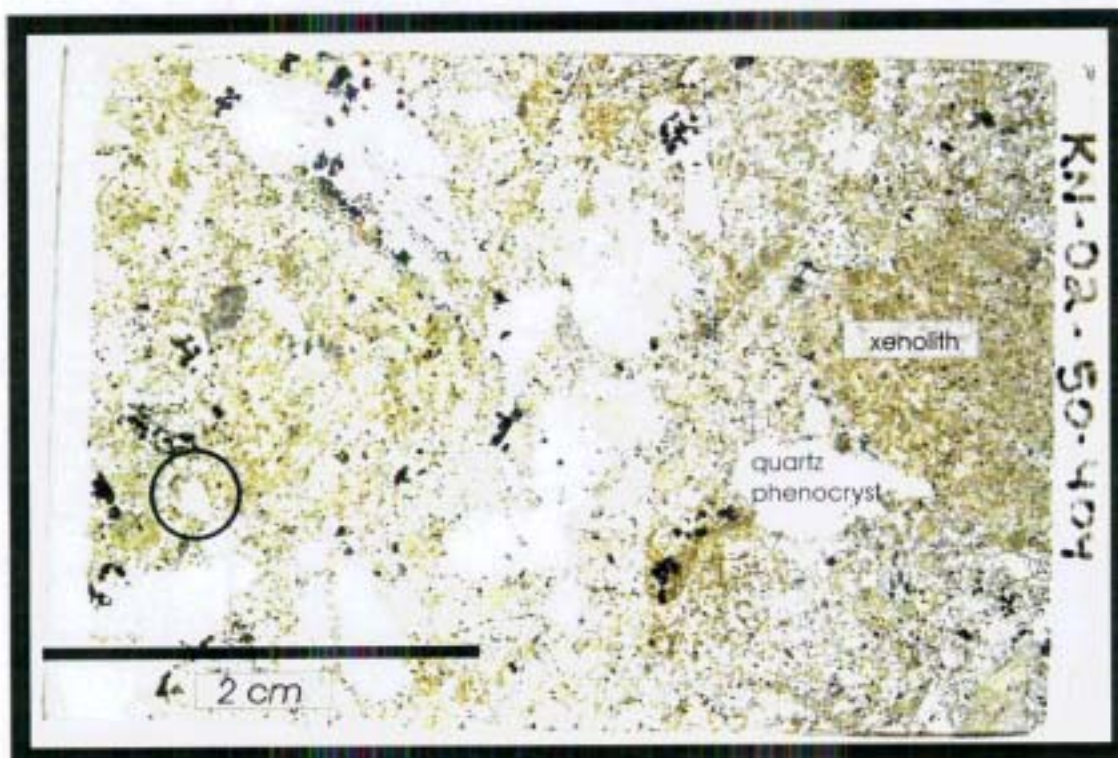


Figure 1a. Sample KN-02-50-409. View of polished thin section showing medium- to coarse-grained quartz phenocrysts and fine- to coarse-grained biotitic xenoliths within a quartz-biotite-plagioclase-rich matrix. The circled area is shown in the photomicrographs below.
Plane polarized light.

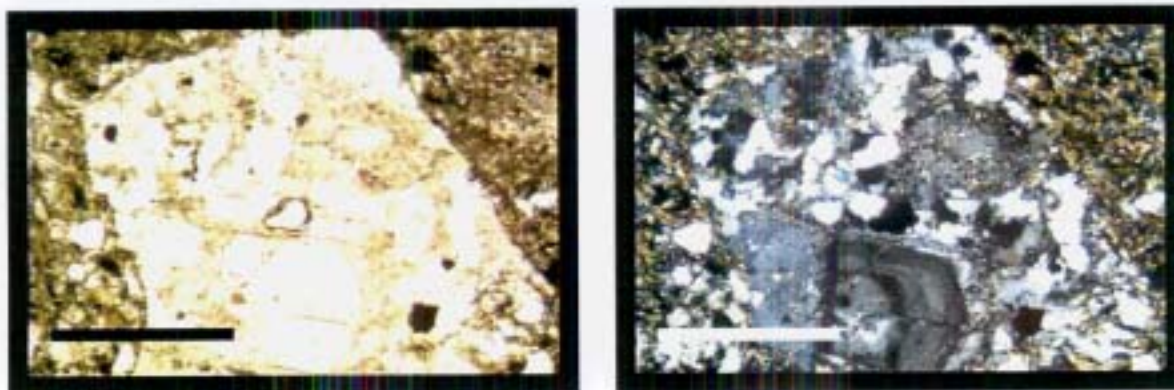


Figure 1b. View of the circled area indicated above. Plane polarized(left) and cross polarized(right) views of a quartz-plagioclase-rich xenolith within a finer-grained matrix of quartz-biotite-feldspar.
Scale bars represent 500 microns. 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-55-28.1-28.2 Box 7; Drill core	Job:	KM-103
Section Name and Type:	KN-02-55-28; Polished Thin Section	Date:	December 9, 2002
Petrographic Designation:	Biotite-epidote andesite porphyry		
Protolith:	Andesite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz phenocrysts	3
Plagioclase phenocrysts (slightly sericitic)	50
Ferromagnesian phenocrysts (completely altered to biotite-ilmenite-hematite-leucoxene)	2
Matrix (biotite-feldspar-quartz)	42
Chlorite	trace
Epidote	2
Magnetite	1
Zircon	rare
Pyrite	trace
Chalcopyrite	rare

Petrography

The sample is composed principally of stubby laths of plagioclase that are typically subangular fragments; a smaller proportion are whole, subhedral crystals. They are commonly zoned. They are also slightly sericitic and slightly turbid, with local fine-grained epidote alteration. The phenocrysts range in size from about 40 microns to about 2mm in length; average size is about 600 microns. Several plagioclase determinations by extinction angles places the average content in the oligoclase to andesine categories.

Phenocrystic quartz is a minor component of the sample, occurring as equant and subangular to subrounded grains; locally with lobate or corroded boundaries.

The sample contains laths and equant grains of intergrown dark green biotite, ilmenite, hematite and leucoxene. A few grains are vaguely six-sided; in others, hematite and ilmenite appear to follow triangular cleavage(?) directions, suggesting the unaltered mineral was ferromagnesian.

The extremely fine-grained matrix consists of <50 micron-sized (more typically <20 microns) intergrown dark green biotite, feldspar and lesser quartz.

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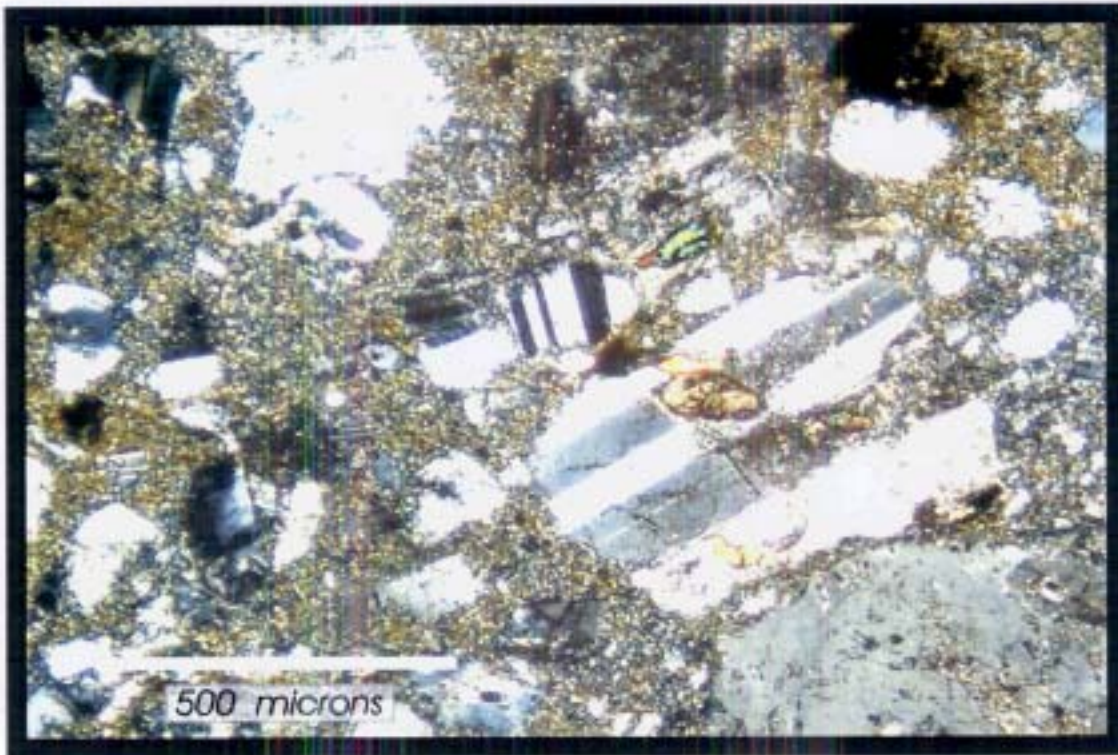
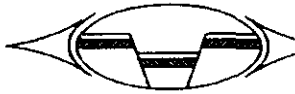


Figure 1. Sample KN-02-55-28. Fragments of plagioclase and minor quartz and epidote within an aphanitic matrix of intergrown biotite-feldspar-quartz. Cross polarized transmitted light, 5x objective.

**PETROGRAPHIC REPORT**

Sample and Type:	KN-02-55-234.5-234.65; Drill core	Job:	KM-103
Section Name and Type:	KN-02-55-235; Polished Thin Section	Date:	December 9, 2002
Petrographic Designation:	Biotitic dacite porphyry		
Protolith:	Dacite porphyry		

Mineralogy

Mineral	Estimated Modal %
Quartz - Phenocrysts	1
- Matrix	15
Feldspar - Phenocrysts	7
- Matrix	35
Biotite	17
Clinopyroxene	15
Chlorite	2
Epidote	trace
Apatite	trace
Leucoxene	trace
Magnetite	8

Petrography

Feldspar phenocrysts tend to be subhedral, stubby laths, commonly turbid and moderately sericitic. Most exhibit indistinct polysynthetic and Carlsbad twinning; a significant minority show no twinning at all. All grains have irregular and lobate boundaries with less sericite; comparative refractive indices suggest the outer rims are either more sodic than the main bodies or are a form of potassium feldspar overgrowth.

Quartz phenocrysts also exhibit irregular and lobate boundaries, partially incorporating the surrounding matrix minerals. Both feldspar and quartz phenocrysts are slightly larger than the matrix, ranging in size from about 600 microns to 1.7mm.

The matrix is composed of an equigranular assemblage of feldspar, quartz, dark green biotite, colourless clinopyroxene and disseminated magnetite. The average grain size is 150 microns, but can range up to about 400 microns. Biotite also forms tightly intergrown and irregular patches, with minor included leucoxene; biotite is locally and patchily altered to chlorite.

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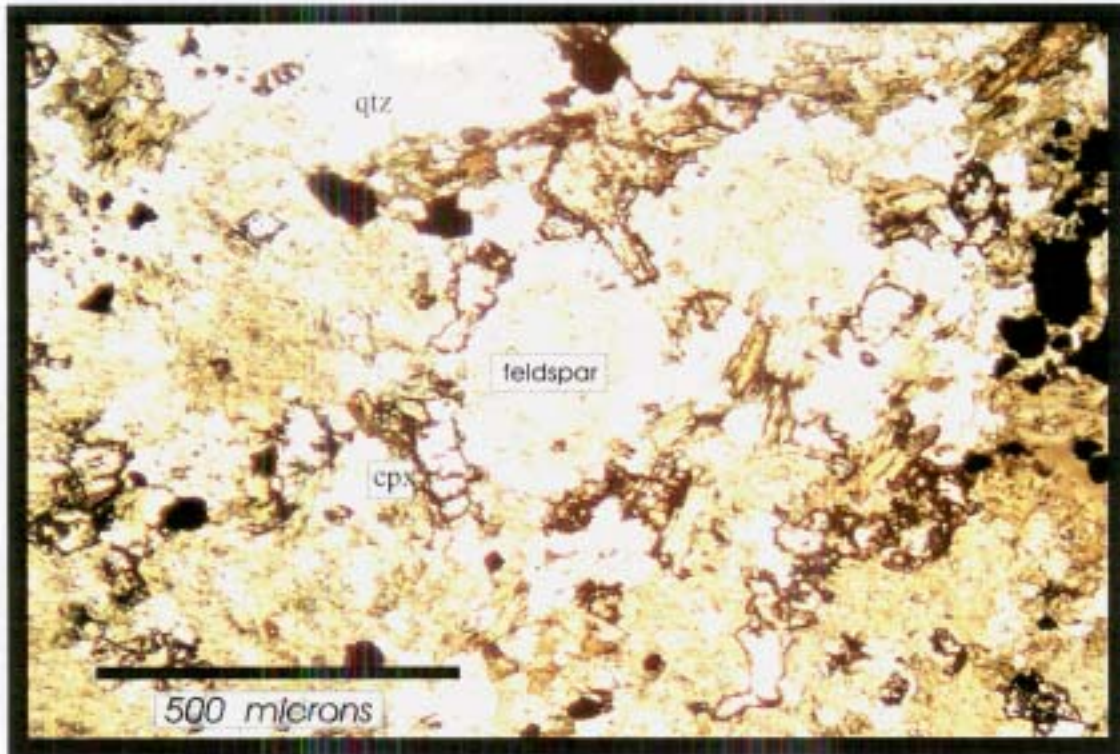


Figure 1a. Sample KN-02-55-235. Turbid and sericitic feldspars with less turbid and irregular rims are intergrown with high relief clinopyroxene(cpx), clear quartz(qtz), green biotite, black magnetite and lesser chlorite. Plane polarized transmitted light. 5x objective.

Appendix 7: Statement of Costs 2002

ASSAYS	\$331,094.21
DRILLING	\$2,337,535.18
HELICOPTER	\$636,882.51
GEOLOGICAL SERVICES	\$271,197.74
STAFF/GEO TEMPS	\$204,559.12
STUDENTS	\$147,262.96
SAMPLE PREPERATION	\$56,276.11
FUEL	\$160,329.85
RENTALS	\$158,408.78
BUNKHOUSE	\$105,867.38
MISC OPERATING SUPPLIES	\$198,000.00
CONST - KN ACCESS ROAD	\$153,010.00
FLIGHTS	\$38,000.00
CORE HANDLING	\$174,765.44
CAMP COST ALLOCATION	\$163,817.35
SNOW CONTROL	<u>\$8,580.00</u>
TOTAL EXPENDITURES	\$5,145,586.63

ANALYTICAL COSTS

Company	Item	Cost	Date	Qty	Cost
ALSChemex	1002375	VA02001670	25-Jun-02	160	\$2,202.00
ALSChemex	1002376	VA02001671	18-Jun-02	159	\$2,170.35
ALSChemex	1002509	VA02001673	26-Jun-02	160	\$2,184.00
ALSChemex	1002549	VA02001674	28-Jun-02	153	\$2,088.45
ALSChemex	1002423	VA02001675	27-Jun-02	210	\$2,880.60
ALSChemex	1002551	VA02001676	28-Jun-02	201	\$2,737.80
ALSChemex	1002443	VA02001810	27-Jun-02	156	\$2,143.50
ALSChemex	1002478	VA02001813	28-Jun-02	208	\$2,847.85
ALSChemex	1002503	VA02001814	3-Jul-02	208	\$2,851.35
ALSChemex	1002514	VA02001815	3-Jul-02	208	\$2,857.20
ALSChemex	1002587	VA02001923	11-Jul-02	250	\$3,424.65
ALSChemex	1002590	VA02001924	11-Jul-02	231	\$3,165.30
ALSChemex	1002593	VA02001925	8-Jul-02	26	\$354.90
ALSChemex	1002609	VA02002030	12-Jul-02	208	\$2,851.35
ALSChemex	1002646	VA02002034	17-Jul-02	250	\$3,424.65
ALSChemex	1002681	VA02002035	22-Jul-02	237	\$3,251.10
ALSChemex	1002682	VA02002036	22-Jul-02	27	\$384.60
ALSChemex	1002687	VA02002080	15-Jul-02	250	\$3,408.60
ALSChemex	1002639	VA02002081	18-Jul-02	238	\$3,260.85
ALSChemex	1002705	VA02002220	22-Jul-02	234	\$3,206.25
ALSChemex	1002703	VA02002221	26-Jul-02	235	\$3,201.90
ALSChemex	1002706	VA02002222	22-Jul-02	232	\$3,177.00
ALSChemex	1002704	VA02002223	22-Jul-02	27	\$386.55
ALSChemex	1002754	VA02002224	24-Jul-02	238	\$3,262.80
ALSChemex	1002759	VA02002225	24-Jul-02	53	\$721.50
ALSChemex	1002820	VA02002226	30-Jul-02	239	\$3,278.40
ALSChemex	1002821	VA02002227	30-Jul-02	243	\$3,315.00
ALSChemex	1002822	VA02002228	30-Jul-02	229	\$3,123.90
ALSChemex	1002824	VA02002229	30-Jul-02	55	\$750.75
ALSChemex	1002876	VA02002280	31-Jul-02	208	\$2,855.25
ALSChemex	1002897	VA02002410	6-Aug-02	234	\$3,210.15
ALSChemex	1002898	VA02002411	9-Aug-02	234	\$3,188.25
ALSChemex	1002899	VA02002412	9-Aug-02	235	\$3,203.85
ALSChemex	1002901	VA02002413	7-Aug-02	113	\$1,540.50
ALSChemex	1002934	VA02002510	7-Aug-02	156	\$2,143.50
ALSChemex	1002988	VA02002547	19-Aug-02	248	\$3,401.25
ALSChemex	1002991	VA02002548	13-Aug-02	234	\$3,188.25
ALSChemex	1002993	VA02002549	13-Aug-02	77	\$1,049.10
ALSChemex	1003014	VA02002631	16-Aug-02	235	\$3,221.85
ALSChemex	1003015	VA02002632	16-Aug-02	26	\$354.90
ALSChemex	1003254	VA02002657	5-Sep-02	194	\$465.60
ALSChemex	1003073	VA02002715	23-Aug-02	238	\$3,266.70
ALSChemex	1003076	VA02002716	21-Aug-02	246	\$3,357.90
ALSChemex	1003078	VA02002717	22-Aug-02	174	\$2,373.15
ALSChemex	1003102	VA02002763	22-Aug-02	211	\$2,894.25
ALSChemex	1003101	VA02002764	22-Aug-02	101	\$1,396.65
ALSChemex	1003135	VA02002805	27-Aug-02	247	\$3,385.55
ALSChemex	1003136	VA02002806	27-Aug-02	204	\$2,782.65
ALSChemex	1003204	VA02002846	30-Aug-02	239	\$3,258.45
ALSChemex	1003240	VA02002904	30-Aug-02	99	\$1,369.35
ALSChemex	1003270	VA02002934	29-Aug-02	52	\$727.80
ALSChemex	1003303	VA02002990	3-Sep-02	239	\$3,274.50
ALSChemex	1003304	VA02002991	5-Sep-02	244	\$3,326.70
ALSChemex	1003340	VA02003004	6-Sep-02	155	\$2,129.85
ALSChemex	1003494	VA02003156	9-Sep-02	208	\$2,853.30
ALSChemex	1003498	VA02003160	10-Sep-02	226	\$3,099.00
ALSChemex	1003499	VA02003161	9-Sep-02	77	\$1,049.10
ALSChemex	1003544	VA02003172	12-Sep-02	160	\$2,200.05
ALSChemex	1003514	VA02003178	15-Sep-02	164	\$2,234.70
ALSChemex	1003667	VA02003353	16-Sep-02	207	\$2,821.65
ALSChemex	1003668	VA02003354	23-Sep-02	208	\$2,853.30
ALSChemex	1003671	VA02003355	18-Sep-02	234	\$3,192.15

Company	Invoice #	Certificate #	Date		Cost
ALSChemex	1003673	VA02003356	22-Sep-02	234	\$3,192.15
ALSChemex	1003674	VA02003357	18-Sep-02	57	\$776.10
ALSChemex	1003781	VA02003415	23-Sep-02	202	\$2,775.30
ALSChemex	1003883	VA02003606	25-Sep-02	226	\$3,081.00
ALSChemex	1003884	VA02003607	25-Sep-02	247	\$3,371.55
ALSChemex	1003892	VA02003608	25-Sep-02	78	\$1,062.75
ALSChemex	1004037	VA02003800	30-Sep-02	78	\$1,064.70
ALSChemex	1004112	VA02003951	2-Oct-02	214	\$2,921.10
ALSChemex	1004238	VA02004053	4-Oct-02	232	\$3,177.00
ALSChemex	1004294	VA02004110	3-Oct-02	235	\$3,219.90
ALSChemex	1004400	VA02004138	7-Oct-02	131	\$1,804.20
ALSChemex	1006464	VA02006314	23-Oct-02	188	\$2,582.25
ALSChemex	1004507	VA02004250	7-Oct-02	235	\$3,221.85
ALSChemex	1004629	VA02004396	9-Oct-02	105	\$1,447.35
ALSChemex	1004724	VA02004524	15-Oct-02	215	\$2,944.85
ALSChemex	1006466	VA02006316	17-Oct-02	65	\$910.05
ALSChemex	1004823	VA02004594	15-Oct-02	118	\$1,608.75
ALSChemex	1004836	VA02004626	18-Oct-02	156	\$2,145.45
ALSChemex	1004966	VA02004724	24-Oct-02	233	\$3,176.55
ALSChemex	1004968	VA02004725	22-Oct-02	167	\$2,295.60
ALSChemex	1005017	VA02004729	24-Oct-02	202	\$2,773.35
ALSChemex	1005038	VA02004757	29-Oct-02	156	\$2,145.45
ALSChemex	1005113	VA02004877	30-Oct-02	156	\$2,125.50
ALSChemex	1005115	VA02004879	29-Oct-02	234	\$3,194.10
ALSChemex	1005185	VA02004935	29-Oct-02	154	\$2,120.10
ALSChemex	1005200	VA02005020	30-Oct-02	78	\$1,082.70
ALSChemex	1005476	VA02005288	6-Nov-02	156	\$2,147.40
ALSChemex	1005668	VA02005580	15-Nov-02	246	\$3,373.95
ALSChemex	1005675	VA02005581	15-Nov-02	230	\$3,131.70
ALSChemex	1005888	VA02005685	16-Nov-02	158	\$2,174.70
ALSChemex	1005944	VA02005766	18-Nov-02	168	\$2,307.30
ALSChemex	1006295	VA02006184	27-Nov-02	205	\$2,816.00
ALSChemex	1006297	VA02006186	28-Nov-02	104	\$1,437.60
ALSChemex	1006312	VA02006290	29-Nov-02	126	\$1,737.90
ALSChemex	1006314	VA02006292	30-Nov-02	195	\$2,679.75
AMTEL	Metallurgical		22-Apr-02		\$93,486.65
Bondor Clegg	Storage				\$228.76
Assayers Canada	Check Assays				\$770.50
					<u>\$331,094.21</u>

\$331,094.21

DRILL COSTS

Company	Invoice #	Date	Amount
Britton Bros.	02-533	5-Jun-02	\$33,689.17
Britton Bros.	02-535	19-Jun-02	\$58,000.88
Britton Bros.	02-536	19-Jun-02	\$17,911.49
Britton Bros.	02-537	19-Jun-02	\$77,608.48
Britton Bros.	02-538	19-Jun-02	\$17,572.95
Britton Bros.	02-539	4-Jul-02	\$66,945.54
Britton Bros.	02-540	4-Jul-02	\$77,073.90
Britton Bros.	02-541	4-Jul-02	\$84,373.25
Britton Bros.	02-542	4-Jul-02	\$68,444.48
Britton Bros.	02-543	17-Jul-02	\$78,802.58
Britton Bros.	02-544	17-Jul-02	\$84,853.99
Britton Bros.	02-545	17-Jul-02	\$7,203.70
Britton Bros.	02-546	17-Jul-02	\$481.22
Britton Bros.	02-548	30-Jul-02	\$10,098.30
Britton Bros.	02-549	30-Jul-02	\$60,901.06
Britton Bros.	02-550	30-Jul-02	\$78,238.31
Britton Bros.	02-551	30-Jul-02	\$55,380.13
Britton Bros.	02-552	30-Jul-02	\$57,968.22
Britton Bros.	02-555	8-Aug-02	\$7,432.43
Britton Bros.	02-556	8-Aug-02	\$7,394.97
Britton Bros.	02-557	8-Aug-02	\$15,607.55
Britton Bros.	02-558	8-Aug-02	\$8,739.57
Britton Bros.	02-561	20-Aug-02	\$32,709.57
Britton Bros.	02-562	20-Aug-02	\$49,465.33
Britton Bros.	02-563	20-Aug-02	\$61,593.53
Britton Bros.	02-564	20-Aug-02	\$46,883.32
Britton Bros.	02-565	20-Aug-02	\$12,309.30
Britton Bros.	02-572	2-Sep-02	\$61,224.54
Britton Bros.	02-573	3-Sep-02	\$79,520.89
Britton Bros.	02-574	3-Sep-02	\$38,573.60
Britton Bros.	02-575	3-Sep-02	\$26,114.87
Britton Bros.	02-576	3-Sep-02	\$28,454.80
Britton Bros.	02-578	19-Sep-02	\$64,889.97
Britton Bros.	02-579	19-Sep-02	\$56,358.75
Britton Bros.	02-580	19-Sep-02	\$63,683.36
Britton Bros.	02-581	19-Sep-02	\$64,049.02
Britton Bros.	02-583	19-Sep-02	\$24,134.30
Britton Bros.	02-585	2-Oct-02	\$46,983.38
Britton Bros.	02-586	2-Oct-02	\$75,235.50
Britton Bros.	02-587	2-Oct-02	\$73,614.02
Britton Bros.	02-588	2-Oct-02	\$47,857.43
Britton Bros.	02-590	2-Oct-02	\$23,849.60
Britton Bros.	02-595	17-Oct-02	\$34,006.59
Britton Bros.	02-596	17-Oct-02	\$67,808.28
Britton Bros.	02-597	17-Oct-02	\$38,357.61
Britton Bros.	02-599	17-Oct-02	\$35,974.80
Britton Bros.	02-600	24-Oct-02	\$6,960.65
Britton Bros.	02-598	17-Oct-02	\$18,622.73
Britton Bros.	02-601	24-Oct-02	\$21,168.75
Britton Bros.	02-604	07-Nov-02	\$54,429.87
Britton Bros.	02-605	07-Nov-02	\$34,738.94
Britton Bros.	02-608	22-Nov-02	\$73,239.71
			<u>\$2,337,535.18</u>

\$2,337,535.18

HELICOPTER COSTS

Company	Invoice #	Machine ID	Date	Hours	Cost
Canadian Helicopters	P246870	206B	16-May-02	2.10	\$1,948.35
Canadian Helicopters	P246925	206B	24-May-02	1.90	\$1,524.40
Canadian Helicopters	P246926	206B	25-May-02	3.60	\$2,664.00
Canadian Helicopters	P246950	BH06-L1	26-May-02	7.30	\$7,031.60
Canadian Helicopters	P246951	BH06-L1	27-May-02	6.00	\$5,640.00
Canadian Helicopters	P246952	BH06-L1	28-May-02	4.80	\$4,512.00
Canadian Helicopters	P246953	BH06-L1	29-May-02	7.80	\$7,332.00
Canadian Helicopters	P246954	BH06-L1	30-May-02	1.70	\$1,598.00
Canadian Helicopters	P246955	BH06-L1	31-May-02	3.90	\$3,666.00
Canadian Helicopters	P246956	BH06-L1	1-Jun-02	2.60	\$2,444.00
Canadian Helicopters	P246957	BH06-L1	2-Jun-02	1.70	\$1,598.00
Canadian Helicopters	P246958	BH06-L1	3-Jun-02	2.80	\$2,632.00
Canadian Helicopters	P246959	BH06-L1	4-Jun-02	6.00	\$5,640.00
Canadian Helicopters	P246960	BH06-L1	5-Jun-02	3.80	\$3,572.00
Canadian Helicopters	P246961	BH06-L1	6-Jun-02	4.70	\$4,418.00
Canadian Helicopters	P246962	BH06-L1	7-Jun-02	7.70	\$7,238.00
Canadian Helicopters	P246963	BH06-L1	8-Jun-02	7.60	\$7,144.00
Canadian Helicopters	P246964	BH06-L1	9-Jun-02	9.60	\$9,024.00
Canadian Helicopters	P246965	BH06-L1	10-Jun-02	8.30	\$7,802.00
Canadian Helicopters	P246966	BH06-L1	11-Jun-02	5.80	\$5,452.00
Canadian Helicopters	P246967	BH06-L1	12-Jun-02	5.00	\$4,700.00
Canadian Helicopters	P246943	206B	12-Jun-02	2.20	\$1,628.00
Canadian Helicopters	P246944	BH06-L1	13-Jun-02	5.00	\$4,700.00
Canadian Helicopters	P246945	BH06-L1	14-Jun-02	6.70	\$6,298.00
Canadian Helicopters	P246946	BH06-L1	15-Jun-02	6.70	\$6,298.00
Canadian Helicopters	P246947	BH06-L1	16-Jun-02	5.80	\$5,452.00
Canadian Helicopters	P246825	BH06-L1	17-Jun-02	6.60	\$6,204.00
Canadian Helicopters	P246826	BH06-L1	18-Jun-02	5.80	\$5,452.00
Canadian Helicopters	P246827	BH06-L1	19-Jun-02	7.30	\$6,862.00
Canadian Helicopters	P246828	BH06-L1	20-Jun-02	5.80	\$5,452.00
Canadian Helicopters	P246829	BH06-L1	21-Jun-02	7.80	\$7,332.00
Canadian Helicopters	P246831	BH06-L1	22-Jun-02	7.10	\$6,674.00
Canadian Helicopters	P246832	BH06-L1	23-Jun-02	6.00	\$5,640.00
Canadian Helicopters	P246834	BH06-L1	24-Jun-02	4.90	\$4,606.00
Canadian Helicopters	P246836	BH06-L1	25-Jun-02	5.40	\$5,076.00
Canadian Helicopters	P246838	BH06-L1	26-Jun-02	7.70	\$7,238.00
Canadian Helicopters	P246839	BH06-L1	27-Jun-02	5.20	\$4,888.00
Canadian Helicopters	P246840	BH06-L1	28-Jun-02	6.10	\$5,734.00
Canadian Helicopters	P246841	BH06-L1	29-Jun-02	1.70	\$1,598.00
Canadian Helicopters	P241125	BH06-L1	29-Jun-02	3.60	\$3,384.00
Canadian Helicopters	P241126	BH06-L1	30-Jun-02	5.30	\$4,982.00
Canadian Helicopters	P241127	BH06-L1	1-Jul-02	5.30	\$4,982.00
Canadian Helicopters	P241128	BH06-L1	2-Jul-02	4.70	\$4,418.00
Canadian Helicopters	P241129	BH06-L1	3-Jul-02	3.00	\$2,820.00
Canadian Helicopters	P241130	BH06-L1	4-Jul-02	4.50	\$4,230.00
Canadian Helicopters	P241131	BH06-L1	5-Jul-02	3.00	\$2,820.00
Canadian Helicopters	P241132	BH06-L1	6-Jul-02	2.00	\$1,880.00
Canadian Helicopters	P241133	BH06-L1	7-Jul-02	2.40	\$2,256.00
Canadian Helicopters	P241135	BH06-L1	8-Jul-02	3.80	\$3,572.00
Canadian Helicopters	P241136	BH06-L1	9-Jul-02	1.20	\$1,128.00
Canadian Helicopters	P246844	206B	9-Jul-02	1.80	\$1,332.00
Canadian Helicopters	P246845	206B	10-Jul-02	3.20	\$2,368.00
Canadian Helicopters	P246846	206B	11-Jul-02	3.50	\$2,590.00
Canadian Helicopters	P246848	206B	12-Jul-02	1.00	\$740.00
Canadian Helicopters	P246900	206B	13-Jul-02	1.50	\$1,110.00
Canadian Helicopters	P246902	B206LH-1	14-Jul-02	3.30	\$3,102.00
Canadian Helicopters	P246903	B206LH-1	15-Jul-02	5.10	\$4,794.00
Canadian Helicopters	P246905	B206LH-1	16-Jul-02	4.80	\$4,512.00
Canadian Helicopters	P246908	BH06-L1	17-Jul-02	4.30	\$4,042.00
Canadian Helicopters	P246911	BH06-L1	18-Jul-02	4.80	\$4,512.00
Canadian Helicopters	P246914	BH06-L1	19-Jul-02	4.10	\$3,854.00
Canadian Helicopters	P246915	BH06-L1	20-Jul-02	5.00	\$4,700.00
Canadian Helicopters	P246916	B206LH-1	21-Jul-02	4.70	\$4,418.00

Company	Invoice	Model	Date	Hours	Cost
Canadian Helicopters	P246917	B206LH-1	22-Jul-02	5.50	\$5,170.00
Canadian Helicopters	P246919	B206LH-1	23-Jul-02	5.60	\$5,264.00
Canadian Helicopters	P246920	B206LH-1	24-Jul-02	4.70	\$4,418.00
Canadian Helicopters	P246922	B206LH-1	25-Jul-02	5.50	\$5,170.00
Canadian Helicopters	P246923	B206LH-1	26-Jul-02	6.20	\$5,828.00
Canadian Helicopters	P246924	BH06-L1	27-Jul-02	2.00	\$1,880.00
Canadian Helicopters	P241152	BH06-L1	28-Jul-02	4.90	\$4,606.00
Canadian Helicopters	P241077	B206LH-1	29-Jul-02	2.30	\$2,162.00
Canadian Helicopters	P241079	B206LH-1	30-Jul-02	3.80	\$3,572.00
Canadian Helicopters	P241083	B206LH-1	31-Jul-02	3.00	\$2,820.00
Canadian Helicopters	P241085	B206LH-1	1-Aug-02	2.70	\$2,538.00
Canadian Helicopters	P241089	B206LH-1	2-Aug-02	3.10	\$2,914.00
Canadian Helicopters	P241091	B206LH-1	3-Aug-02	2.60	\$2,444.00
Canadian Helicopters	P241093	B206LH-1	4-Aug-02	6.60	\$6,204.00
Canadian Helicopters	P241253	206B	4-Aug-02	1.60	\$1,184.00
Canadian Helicopters	P241095	B206LH-1	5-Aug-02	3.60	\$3,384.00
Canadian Helicopters	P241256	206B	5-Aug-02	2.90	\$2,146.00
Canadian Helicopters	P241097	B206LH-1	6-Aug-02	3.60	\$3,384.00
Canadian Helicopters	P241099	B206LH-1	7-Aug-02	2.50	\$2,350.00
Canadian Helicopters	P241201	B206LH-1	8-Aug-02	0.60	\$564.00
Canadian Helicopters	P251701	206B	8-Aug-02	2.00	\$1,480.00
Canadian Helicopters	P251703	206B	9-Aug-02	3.70	\$2,738.00
Canadian Helicopters	P241207	B206LH-1	10-Aug-02	2.00	\$1,880.00
Canadian Helicopters	P251706	206B	10-Aug-02	5.20	\$3,848.00
Canadian Helicopters	P251708	206B	11-Aug-02	4.00	\$2,960.00
Canadian Helicopters	P251707	206B	11-Aug-02	0.70	\$518.00
Canadian Helicopters	P241210	BH06-L1	11-Aug-02	1.80	\$1,692.00
Canadian Helicopters	P251709	206B	12-Aug-02	2.70	\$1,998.00
Canadian Helicopters	P251710	206B	13-Aug-02	1.00	\$740.00
Canadian Helicopters	P241214	BH06-L1	13-Aug-02	1.70	\$1,598.00
Canadian Helicopters	P241215	BH06-L1	14-Aug-02	2.60	\$2,444.00
Canadian Helicopters	P241145	206B	15-Aug-02	0.30	\$222.00
Canadian Helicopters	P241217	B206LH-1	15-Aug-02	3.00	\$2,820.00
Canadian Helicopters	P241338	B206LH-1	16-Aug-02	2.90	\$2,726.00
Canadian Helicopters	P241148	206B	16-Aug-02	0.60	\$444.00
Canadian Helicopters	P241340	B206LH-1	17-Aug-02	2.50	\$2,350.00
Canadian Helicopters	P244102	206B	17-Aug-02	0.20	\$148.00
Canadian Helicopters	P241342	B206LH-1	18-Aug-02	5.90	\$5,546.00
Canadian Helicopters	P244106	206B	18-Aug-02	1.70	\$1,258.00
Canadian Helicopters	P241344	B206LH-1	19-Aug-02	1.70	\$1,598.00
Canadian Helicopters	P244109	206B	19-Aug-02	0.40	\$296.00
Canadian Helicopters	P241346	B206LH-1	20-Aug-02	1.70	\$1,598.00
Canadian Helicopters	P244112	206B	20-Aug-02	1.80	\$1,332.00
Canadian Helicopters	P244116	206B	21-Aug-02	0.60	\$444.00
Canadian Helicopters	P241348	B206LH-1	21-Aug-02	1.40	\$1,316.00
Canadian Helicopters	P244125	B206LH-1	22-Aug-02	2.40	\$2,256.00
Canadian Helicopters	P244127	B206LH-1	23-Aug-02	0.70	\$658.00
Canadian Helicopters	P241222	B206LH-1	23-Aug-02	1.30	\$1,222.00
Canadian Helicopters	P244123	206B	24-Aug-02	2.20	\$1,628.00
Canadian Helicopters	P241224	B206LH-1	24-Aug-02	2.40	\$2,256.00
Canadian Helicopters	P244075	206B	25-Aug-02	0.80	\$592.00
Canadian Helicopters	P244075	206B	25-Aug-02	0.20	\$148.00
Canadian Helicopters	P241301	B206LH-1	25-Aug-02	2.00	\$1,880.00
Canadian Helicopters	P241303	B206LH-1	26-Aug-02	2.50	\$2,350.00
Canadian Helicopters	P244078	206B	26-Aug-02	1.50	\$1,110.00
Canadian Helicopters	P241305	B206LH-1	27-Aug-02	1.70	\$1,598.00
Canadian Helicopters	P244081	206B	27-Aug-02	1.10	\$814.00
Canadian Helicopters	P244081	206B	27-Aug-02	0.60	\$444.00
Canadian Helicopters	P244084	206B	28-Aug-02	1.20	\$888.00
Canadian Helicopters	P241307	B206LH-1	28-Aug-02	1.80	\$1,692.00
Canadian Helicopters	P241309	B206LH-1	29-Aug-02	1.70	\$1,598.00
Canadian Helicopters	P244090	206B	30-Aug-02	4.00	\$2,960.00
Canadian Helicopters	P241311	B206LH-1	30-Aug-02	3.70	\$3,478.00
Canadian Helicopters	P241314	206B	31-Aug-02	3.50	\$2,590.00
Canadian Helicopters	P241315	206B	1-Sep-02	4.90	\$3,626.00

Company	Invoice #	Machine ID	Date	Hours	Cost
Canadian Helicopters	P241317	206B	2-Sep-02	4.40	\$3,256.00
Canadian Helicopters	P241319	206B	3-Sep-02	2.60	\$1,924.00
Canadian Helicopters	P244148	BH06-L1	4-Sep-02	1.30	\$1,222.00
Canadian Helicopters	P241321	206B	4-Sep-02	3.30	\$2,949.87
Canadian Helicopters	P218451	BH06-L1	5-Sep-02	3.50	\$3,290.00
Canadian Helicopters	P218454	BH06-L1	6-Sep-02	2.50	\$2,350.00
Canadian Helicopters	P218457	BH06-L1	7-Sep-02	2.70	\$2,538.00
Canadian Helicopters	P218460	BH06-L1	8-Sep-02	3.70	\$3,478.00
Canadian Helicopters	P218463	BH06-L1	9-Sep-02	4.30	\$4,042.00
Canadian Helicopters	P218466	BH06-L1	10-Sep-02	5.80	\$5,452.00
Canadian Helicopters	P218469	BH06-L1	11-Sep-02	3.10	\$2,914.00
Canadian Helicopters	P218474	BH06-L1	12-Sep-02	2.50	\$2,350.00
Canadian Helicopters	P218527	BH06-L1	13-Sep-02	4.30	\$4,042.00
Canadian Helicopters	P218531	BH06-L1	14-Sep-02	2.30	\$2,162.00
Canadian Helicopters	P218535	BH06-L1	15-Sep-02	2.90	\$2,726.00
Canadian Helicopters	P218539	BH06-L1	16-Sep-02	4.70	\$4,418.00
Canadian Helicopters	P218543	BH06-L1	17-Sep-02	3.80	\$3,572.00
Canadian Helicopters	P218548	BH06-L1	18-Sep-02	1.40	\$1,316.00
Canadian Helicopters	P244057	BH06-L1	19-Sep-02	3.60	\$3,384.00
Canadian Helicopters	P244056	A-Star	19-Sep-02	4.00	\$5,108.23
Canadian Helicopters	P244060	BH06-L1	20-Sep-02	1.40	\$1,316.00
Canadian Helicopters	P218441	206B	21-Sep-02	0.90	\$666.00
Canadian Helicopters	P244066	BH06-L1	21-Sep-02	0.90	\$846.00
Canadian Helicopters	P218444	BH06-L1	22-Sep-02	3.20	\$3,008.00
Canadian Helicopters	P244070	206B	22-Sep-02	0.80	\$592.00
Canadian Helicopters	P244072	BH06-L1	23-Sep-02	0.70	\$658.00
Canadian Helicopters	P218447	206B	23-Sep-02	2.30	\$1,702.00
Canadian Helicopters	P249777	206B	24-Sep-02	3.90	\$2,886.00
Canadian Helicopters	P249781	206B	25-Sep-02	5.30	\$3,922.00
Canadian Helicopters	P249785	206B	26-Sep-02	1.00	\$740.00
Canadian Helicopters	P249788	BH06-L1	26-Sep-02	1.60	\$1,504.00
Canadian Helicopters	P249791	BH06-L1	27-Sep-02	2.80	\$2,632.00
Canadian Helicopters	P249795	BH06-L1	28-Sep-02	3.90	\$3,666.00
Canadian Helicopters	P249800	BH06-L1	29-Sep-02	3.70	\$3,478.00
Canadian Helicopters	P249752	BH06-L1	30-Sep-02	4.00	\$3,760.00
Canadian Helicopters	P249755	BH06-L1	1-Oct-02	1.90	\$1,786.00
Canadian Helicopters	P249757	BH06-L1	2-Oct-02	2.80	\$2,632.00
Canadian Helicopters	P249759	BH06-L1	3-Oct-02	2.10	\$1,974.00
Canadian Helicopters	P249762	BH06-L1	4-Oct-02	4.10	\$3,854.00
Canadian Helicopters	P249764	BH06-L1	5-Oct-02	3.40	\$3,196.00
Canadian Helicopters	P249766	BH06-L1	6-Oct-02	2.30	\$2,162.00
Canadian Helicopters	P249807	BH06-L1	6-Oct-02	0.70	\$658.00
Canadian Helicopters	P249809	BH06-L1	7-Oct-02	5.00	\$4,700.00
Canadian Helicopters	P249811	BH06-L1	8-Oct-02	5.00	\$4,700.00
Canadian Helicopters	P249814	BH06-L1	9-Oct-02	2.60	\$2,444.00
Canadian Helicopters	P156905	BH06-L1	9-Oct-02	1.20	\$1,128.00
Canadian Helicopters	P156907	BH06-L1	10-Oct-02	4.40	\$4,136.00
Canadian Helicopters	P156910	BH06-L1	11-Oct-02	2.60	\$2,444.00
Canadian Helicopters	P156912	BH06-L1	12-Oct-02	5.00	\$4,700.00
Canadian Helicopters	P156914	BH06-L1	13-Oct-02	1.80	\$1,692.00
Canadian Helicopters	P156915	BH06-L1	14-Oct-02	2.10	\$1,974.00
Canadian Helicopters	P156918	BH06-L1	15-Oct-02	2.20	\$2,068.00
Canadian Helicopters	P156919	BH06-L1	16-Oct-02	2.40	\$2,256.00
Canadian Helicopters	P156920	BH06-L1	17-Oct-02	1.40	\$1,316.00
Canadian Helicopters	P249828	BH06-L1	17-Oct-02	0.80	\$752.00
Canadian Helicopters	P249829	BH06-L1	18-Oct-02	1.50	\$1,410.00
Canadian Helicopters	P249831	BH06-L1	19-Oct-02	1.70	\$1,598.00
Canadian Helicopters	P249832	BH06-L1	20-Oct-02	2.50	\$2,350.00
Canadian Helicopters	P249833	BH06-L1	21-Oct-02	7.30	\$6,862.00
Canadian Helicopters	P249834	BH06-L1	22-Oct-02	0.90	\$846.00
Canadian Helicopters	P249835	BH06-L1	23-Oct-02	1.20	\$1,356.42
Canadian Helicopters	P241224	B206LH-1	24-Aug-02	0.30	\$282.00
Canadian Helicopters	P244075	206B	25-Aug-02	1.90	\$1,406.00
Canadian Helicopters	P241319	206B	3-Sep-02	0.40	\$296.00
Canadian Helicopters	P218469	BH06-L1	11-Sep-02	1.10	\$1,034.00

Company	Invoice #	Machine ID	Date	Hours	Cost
Canadian Helicopters	P246880	BH06-L1	29-Apr-02	3.20	\$2,651.09
Canadian Helicopters	P239267	206B	9-May-02	3.80	\$3,294.22
Canadian Helicopters	P239268	206B	10-May-02	2.40	\$2,227.44
Canadian Helicopters	P239269	206B	11-May-02	1.00	\$928.10
Canadian Helicopters	P239270	206B	12-May-02	1.40	\$1,299.34
Canadian Helicopters	P239271	206B	13-May-02	0.30	\$278.43
Canadian Helicopters	P246867	206B	13-May-02	0.60	\$556.86
Canadian Helicopters	P246868	206B	14-May-02	1.30	\$1,206.53
Canadian Helicopters	P246869	206B	15-May-02	1.30	\$1,206.53
Canadian Helicopters	P246871	206B	17-May-02	1.90	\$1,763.39
Canadian Helicopters	P246872	206B	18-May-02	1.80	\$2,140.83
Canadian Helicopters	P246873	206B	19-May-02	1.30	\$1,206.53
Canadian Helicopters	P239272	206B	20-May-02	0.80	\$664.80
Canadian Helicopters	P239273	206B	21-May-02	3.20	\$2,955.40
Canadian Helicopters	P239274	206B	23-May-02	4.60	\$4,050.15
Canadian Helicopters	P246845	206B	10-Jul-02	2.60	\$1,924.00
Canadian Helicopters	P246846	206B	11-Jul-02	4.50	\$3,330.00
Canadian Helicopters	P246848	206B	12-Jul-02	5.50	\$4,070.00
Canadian Helicopters	P246900	206B	13-Jul-02	2.90	\$2,146.00
Canadian Helicopters	P246901	B206LH-1	13-Jul-02	2.10	\$1,974.00
Canadian Helicopters	P246901	B206LH-1	13-Jul-02	1.10	\$1,034.00
Canadian Helicopters	P246902	B206LH-1	14-Jul-02	4.40	\$4,136.00
Canadian Helicopters	P246916	B206LH-1	21-Jul-02	4.60	\$4,324.00
Canadian Helicopters	P246919	BH06-L1	23-Jul-02	3.80	\$3,572.00
Canadian Helicopters	P241224	B206LH-1	24-Aug-02	0.30	\$282.00
Canadian Helicopters	P244075	206B	25-Aug-02	1.90	\$1,406.00
Canadian Helicopters	P241319	206B	03-Sep-02	0.40	\$296.00
Canadian Helicopters	P218469	BH06-L1	11-Sep-02	1.10	\$1,034.00
				699.80	\$636,882.51

\$636,882.51

GEOLOGICAL SERVICES

NAME	INVOICE #	DATE	DAYS	COSTS
Jean Pautler	38	15-Oct-02	4	\$1,600.00
Jean Pautler	39	28-Oct-02	1	\$400.00
Judith Mazvihwa	NGR07.02	2-Jul-02	35	\$12,499.90
Judith Mazvihwa	NGR08.26	26-Aug-02	35	\$12,499.90
Judith Mazvihwa	NGR09.30	30-Sep-02	29	\$10,357.06
Judith Mazvihwa	NGR11.20	20-Nov-02	23	\$8,214.22
Brad Mercer	expenses	25-Oct-02	n/a	\$876.07
Brad Mercer	2002-02	2-Jul-02	14	\$4,900.00
Brad Mercer	2002-03	18-Jul-02	18	\$6,671.33
Brad Mercer	2002-04	14-Aug-02	14	\$5,000.00
Brad Mercer	2002-05	29-Aug-02	15	\$5,357.15
Brad Mercer	2002-06	30-Sep-02	24	\$8,571.36
Brad Mercer	2002-07	24-Oct-02	13	\$4,642.86
Eric Ramsay	2002-01	30-Jun-02	3	\$1,071.42
Eric Ramsay	2002-02	7-Jul-02	7	\$2,500.00
Eric Ramsay	2002-03	28-Jul-02	21	\$7,500.00
Eric Ramsay	2002-04	6-Aug-02	10	\$3,571.43
Eric Ramsay	2002-05	26-Aug-02	19	\$2,292.86
Eric Ramsay	2002-07	23-Sep-02	14	\$5,000.00
Eric Ramsay	2002-08	2-Oct-02	10	\$3,571.43
Eric Ramsay	2002-09	25-Oct-02	9	\$3,439.29
Brett LaPeare	2002-01	23-Apr-02	21	\$7,497.00
Brett LaPeare	2002-02	17-Jun-02	35	\$12,852.00
Brett LaPeare	2002-03	16-Jul-02	21	\$9,292.95
Brett LaPeare	2002-04	7-Aug-02	19	\$7,805.06
Brett LaPeare	2002-05	12-Sep-02	27	\$10,803.20
Brett LaPeare	2002-06	10-Oct-02	21	\$8,586.00
Brett LaPeare	2002-07	24-Oct-02	14	\$4,998.00
Brett LaPeare	2002-08	30-Nov-02	24	\$10,944.00
Brett LaPeare	2002-09	16-Dec-02	16	\$6,504.00
Carl Edmunds	05-02	22-Apr-02	20	\$9,120.00
Carl Edmunds	06-03	26-Jun-02	21	\$9,576.00
Carl Edmunds	07-04	29-Jul-02	20	\$8,733.92
Carl Edmunds	08-05	26-Aug-02	20	\$9,121.00
Carl Edmunds	09-06	30-Sep-02	20	\$9,123.23
Carl Edmunds	11-07	7-Nov-02	19	\$8,666.72
Carl Edmunds	12-08	15-Dec-02	13.5	\$6,156.00
PAH	207281	16-Jul-02		\$3,982.21
PAH	208164	6-Aug-02		\$2,297.29
GeoCorp	8-7	11-Aug-02		\$760.00
GeoCorp	8-3	19-Aug-02		\$9,842.88
Graben Petrographics				\$4,000.00
				\$271,197.74

\$271,197.74

STAFF/GEO TEMPS

Title	Month	Salary	Overtime	Benefits	Total
Staff - Full & Part Time	March	\$12,388.96	\$260.77		\$12,649.73
Staff - Full & Part Time	April	\$3,397.92			\$3,397.92
Staff - Full & Part Time	May	\$8,311.84		\$314.26	\$8,626.10
Staff - Full & Part Time	June	\$10,764.52			\$10,764.52
Staff - Full & Part Time	July	\$8,462.52	\$5,404.00		\$13,866.52
Staff - Full & Part Time	August	\$14,388.84	\$83.33		\$14,472.17
Staff - Full & Part Time	September	\$64,933.35	\$1,170.70		\$66,104.05
Staff - Full & Part Time	October	\$47,407.57	\$2,487.00		\$49,894.57
Staff - Full & Part Time	November	\$24,783.54			\$24,783.54
					\$204,559.12

\$204,559.12

STUDENTS

Title	Month	Salary	Overtime	Benefits	Total
Students	May	\$27,753.85			\$27,753.85
Students	June	\$33,076.90	\$684.98		\$33,761.88
Students	July	\$35,907.70	\$876.93		\$36,784.63
Students	August	\$35,153.04	\$489.78	\$106.43	\$35,749.25
Students	September	\$6,967.19	\$6,246.16		\$13,213.35

	\$147,262.96	\$147,262.96
SAMPLE PREP		
STD'S for QAQC	\$987.50	
Steel Pans	\$1,069.75	
Sample Prep (bags, pans, security tags, misc gear, etc)	\$35,548.86	
Sample Shipment	\$18,690.00	
	<u>\$56,276.11</u>	\$56,276.11
FUEL		
Diesel	\$52,258.51	
Propane	\$2,312.64	
Jet B	\$105,758.70	
	<u>\$160,329.85</u>	\$160,329.85
RENTALS		
Computers / Photocopier	\$18,093.60	
Sperry Sun Instruments	\$21,035.06	
Enviro Fuel Tanks	\$4,500.00	
Trucks-4x4 pickups (including repairs and maintenance)	\$23,930.00	
Rental of Lab	\$35,743.75	
Bridge -KN Access Rd	\$15,000.00	
rental of survey gear, radios, office furniture, phones, mag meters	\$40,106.37	
	<u>\$158,408.78</u>	\$158,408.78
CONST - KN ACCESS RD		
Lepka Holdings Ltd	\$153,010.00	\$153,010.00
BUNKHOUSE		
mobilization/installation	\$78,717.38	
rental	\$27,150.00	
core shack	\$2,800.00	
	<u>\$105,667.38</u>	\$105,667.38
MISC OPERATING SUPPLIES		
(office supplies,safety gear, field gear, sample supplies, lumber, tools, freight)	\$198,000.00	\$198,000.00
FLIGHTS		
Smithers/P.G	\$38,000.00	\$38,000.00
CORE HANDLING		
Rock saw supplies	\$8,568.83	
Rock saw blades	\$52,855.00	
Repairs(parts&labour) for core shacks and prep lab and crusher	\$4,364.00	
Core racks	\$47,370.00	
Core boxes	\$61,607.61	
	<u>\$174,765.44</u>	\$174,765.44
CAMP COST ALLOCATION		
Site Services / Mill/Mine maint - Capital projects (parts and labour)	\$163,817.35	\$163,817.35
SNOW CONTROL	\$8,580.00	\$8,580.00
		\$5,145,586.63