

86-945-15682

O'CONNOR RIVER GYPSUM PROJECT
1986 GEOLOGICAL REPORT
ON G.S GROUP MINERAL CLAIMS
ATLIN MINING DIVISION

N.T.S.: 114P/10E

Lat., $59^{\circ} 38.8'$, Long., $136^{\circ} 43.2'$

For:

Owner/Operator: Queenstake Resources Ltd.
900 - 850 West Hastings Street
Vancouver, B.C. V6C 1E1

By:

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December, 1986

15,682

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15682

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SUMMARY

Queenstake Resources Ltd. along with its joint venture partner, Haines Gypsum Inc., conducted an exploration program on the O'Connor River gypsum deposit located in north-western B.C., 96 air km northwest of Haines, Alaska.

The exploration program included geological mapping (1:1000 scale), surveying and 690 m of NQ and BQ size core diamond drilling on the East Zone gypsum deposit. All intersecting of gypsiferous core were split, crushed and assayed at 1.5 m intervals.

The drilling program delineated 2.50 million tonnes of gypsum with an average grade of 79% within the East Zone reserve block.

1.0 INTRODUCTION

1.1 Location and Access

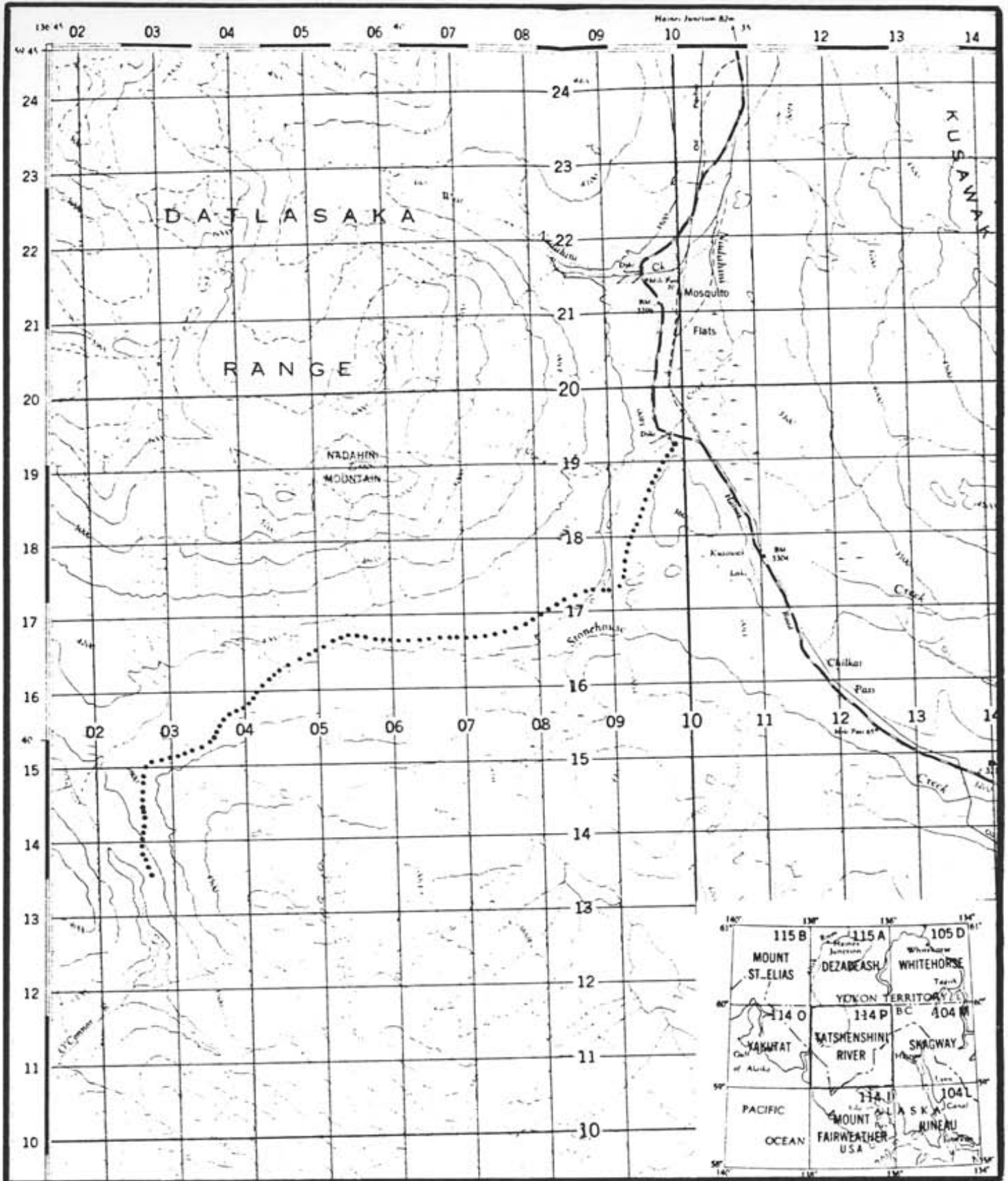
The gypsum deposits are located on both sides of the O'Connor River near the headwaters of its north fork in north-western B.C. between elevations 800 and 1,200 meters (see Fig. 1). Parton Glacier is at the headwaters of the O'Connor River 2½ km north of the gypsum deposits. The East Zone is the most accessible of the three gypsum zones. The deposits are located approximately 96 air km northwest of Haines, Alaska. From mile 66 (km 106) on the Haines Road (a paved all weather highway joining Haines, Alaska with Haines Junction, Yukon) a winter access road meanders 12 km westerly to reach the gypsum deposits. The middle 6 km of this road traverses soft muskeg.

The shortest road distance to the gypsum would be to follow the Klehini R. valley on beyond the Maid of Erin road which is 6.4 km north of the old Haines Road loop at Rainy Hollow. However, this entire route traverses a steep side hill which would present problems of avalanching, debris flows and spring washouts. This route does appear to dry up quickly in the spring and stays relatively dry throughout the summer.

The haul distance to Haines, Alaska from the gypsum claims is 104 km. From Haines to the Lutak dock facility is another 6.4 km. Haines, Alaska to Vancouver is a distance of approximately 1,800 sea km.

1.2 Physiography

The entire access route to the gypsum claims from the Haines Road and the gypsum deposit area itself is located above tree line with only 'buck-brush' and alpine meadow vegetation present. The summer season is short (mid June to mid September) and winters are harsh with an average snowfall of 4.6 - 6.0 m.



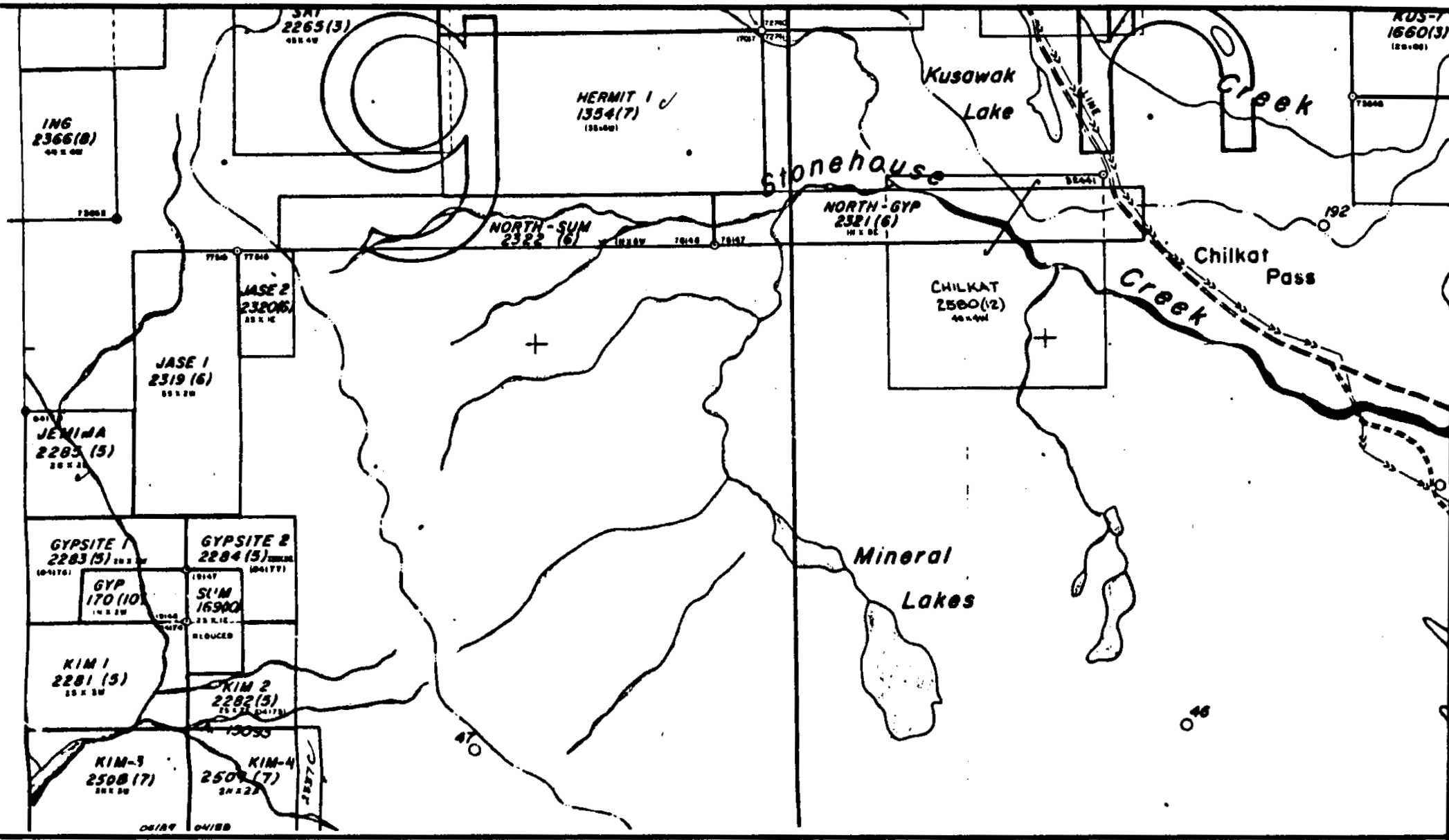
O'Connor River Gypsum Project
 LOCATION MAP
 Queenstake Resources Ltd.

1.3 Property

Table 1 gives claim status for the area of interest as of December 1, 1986. A claim map is included (Figure 2) which shows claim boundaries with respect to the gypsum zones.

**TABLE 1
CLAIM STATUS**

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>EXPIRY DATE</u>
North Sum	2322	June 14, 1988
North Gyp	2321	June 14, 1988
Jase 1	2319	June 14, 1988
Jase 2	2320	June 14, 1988
Gypsite 1	2283	May 23, 1995
Gypsite 2	2284	May 23, 1995
Gyp	170	October 28, 1990
Sum	169	October 28, 1990
Kim 1	2281	May 23, 1995
Kim 2	2282	May 23, 1995
Kim 3	2508	July 26, 1987
Kim 4	2509	July 26, 1987



O'Conner River Gypsum Project
 CLAIM MAP
 Queenstake Resources Ltd.

1.4 History

J. J. McDougall for Ventures Limited (Falconbridge Ltd.) first discovered the showings in 1958. They were staked, mapped and sampled late in 1958. In 1959, 69 m of Ex size core was drilled mainly on the West Zone by Ventures Limited. Recovery was poor and assessment was incomplete. In 1964 Falconbridge conducted some trenching mainly to investigate the sphalerite showing found south of the East Zone. In 1965, 218.5 m of Ax and 59 m of Ex size core were drilled again mainly on the West Zone. Recovery was poor but results confirmed the general nature of the deposit to 30.5 m in depth. Results indicated high purity gypsum present but no assays were done for salt (NaCl). Interbedded amphibolite bodies were encountered here. The deepest hole reached 64 m with most being around 15 m in depth.

Late in 1984, a bulldozer was driven to the East Zone and a bulk sample of gypsum was excavated and shipped on behalf of Haines Gypsum Inc. During 1985, geological mapping was done by G. V. White for the Ministry of Energy, Mines and Petroleum Resources. The property was then brought under a common management by Haines Gypsum Inc. and joint ventured with Queenstake Resources Ltd. early in 1986.

1.5 Present Work

It was decided to evaluate only the East Zone gypsum deposit due to the logistical problems in crossing the O'Connor River, budget constraints and the fact the diamond drilling had already been done on the West Zone.

A Longyear-38 diamond drill, D8 and D7 bulldozers were able to traverse the winter road to the property in mid July, 1986. Diamond drilling was carried out totalling 690 m of NQ and BQ size core. All gypsiferous core was split, crushed and assayed at 1.5m intervals with duplicate samples being stored in Vancouver, B.C. Surveying and geological mapping at 1:1000 scale was done as well over the East Zone.

2.0 GENERAL GEOLOGY

The O'Connor River gypsum deposits lie within Alexander Terraine of the Insular Tectonic Belt. The Duke River and Denalit thrust faults strike northwest-southeast and are located approximately 80 km northeast of the gypsum deposits.

The gypsum bodies lie discordant within upper Paleozoic carbonate sediments. They appear to be Tertiary in age. Surrounding the carbonate sediments are many large and small granodiorite intrusions of lower Tertiary age (Tkope River Intrusives).

The gypsum bodies themselves contain or are bounded by amphibolite, tuff and quartz-feldspar-porphyry also of Tertiary age.

3.0 PROPERTY GEOLOGY

3.1 Stratigraphy

The upper Paleozoic (or older?) carbonate rocks consist chiefly of deformed, massive grey/blue-grey/black limestone which is occasionally argillaceous and siliceous. Dolomitization and marblization are common. Distinct strata of buff-pink hematitic limestone/dolomite lie north of the gypsum deposit.

Just southwest of the East Zone and possibly bordering on it lies a small Oligocene age gneissic granodiorite. Peripheral to it, the limestone country rock has been sheared and hydrothermally altered.

Other igneous rock within the area is found as: sills (up to 15m thick) of fine to coarse grained amphibolite showing obvious chill margins and containing pyrite and pyrrhotite; quartz-feldspar porphyry between the gypsum deposit and limestone to the south which consists of light brown-light grey porphyroblasts in a grey fine grained siliceous matrix. A thin mafic dike rock (rare) was noted crosscutting limestone 300 m north of the East Zone.

Within the gypsum, tuffaceous layers are commonly found concordant with bedding consisting of biotite, chlorite, amphibole and sericite. As well, many other impurities exist interbedded with the gypsum such as strontianite, siderite, ankerite, limonite, scapolite and tremolite (see diamond drill logs-appendix A). It is likely that many uncommon hydrous minerals also occur within the gypsum zone in trace amounts.

3.2 Structure

Seventy-five poles to bedding and faulting were plotted on a stereo-net (see page 11). The gypsum bodies which are fault bounded cross-cut bedding and trend roughly parallel to the Duke River Fault to the northeast. Government mapping indicates an anticlinal structure just north of and parallel to the gypsum zones. Many thrust fault ramps likely underlie the area of interest and these would have acted as intrusive channelways.

Evidence of 'horst' faulting can be seen on the west bank of the O'Connor River 100 m south of the east gypsum zone. The north block has been uplifted several meters with respect to the south block. The gypsum zone at its eastern end pinches out in a wide fault zone and likely does not thicken again due to the lack of sinkholes.

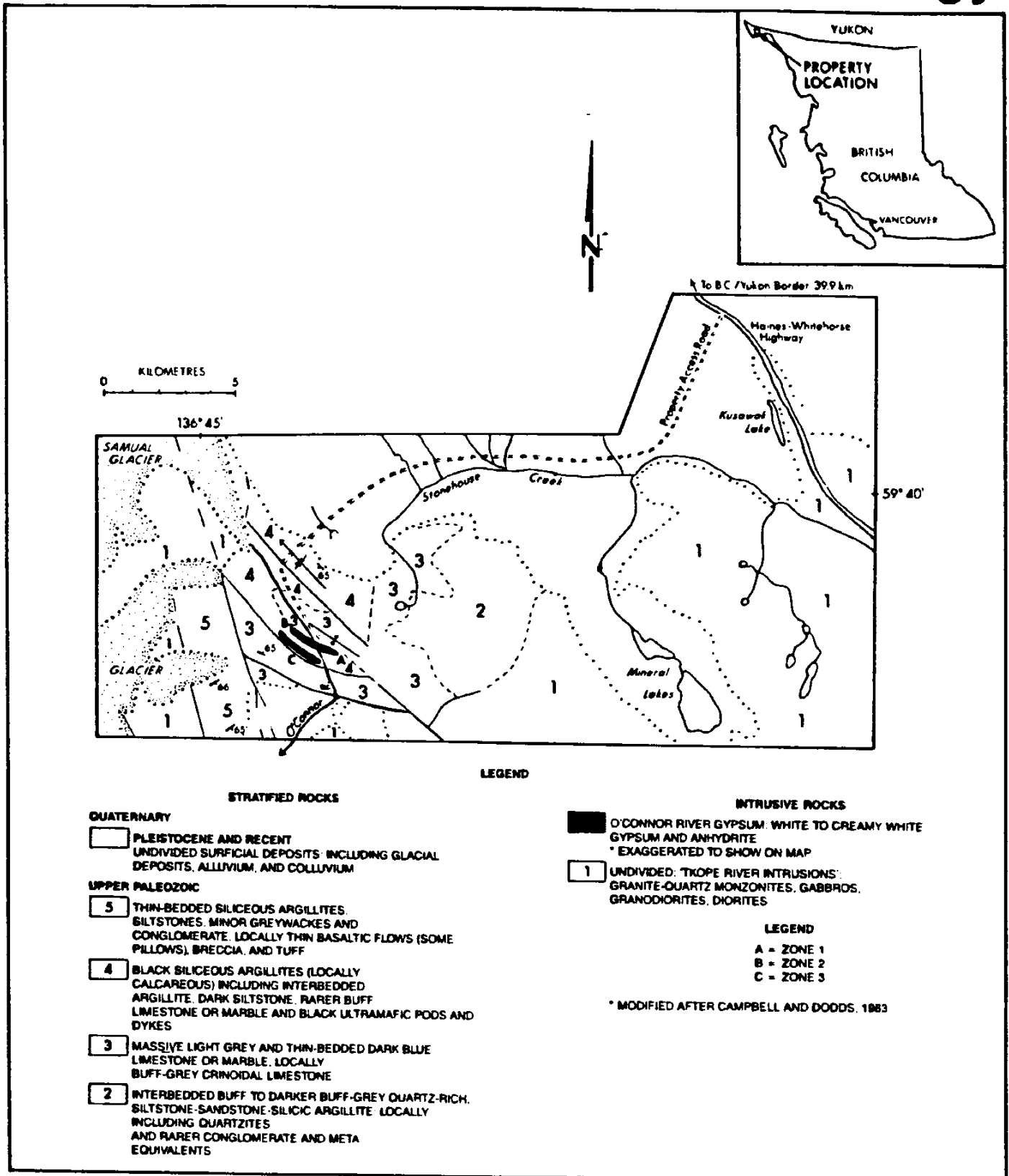
The East and West gypsum zones are on trend with each other and were the same deposit before erosion took out the central portion. There is an absence of interlithic folding within the gypsum zone which implies recent origin with unconfined swelling.

3.3 Overburden and Glaciation

Glaciation has ended only recently (in fact, Parton Glacier is only 2.5 km north of the gypsum deposits). Gypsum zones were protected from erosion by more competent limestone to the north and south.

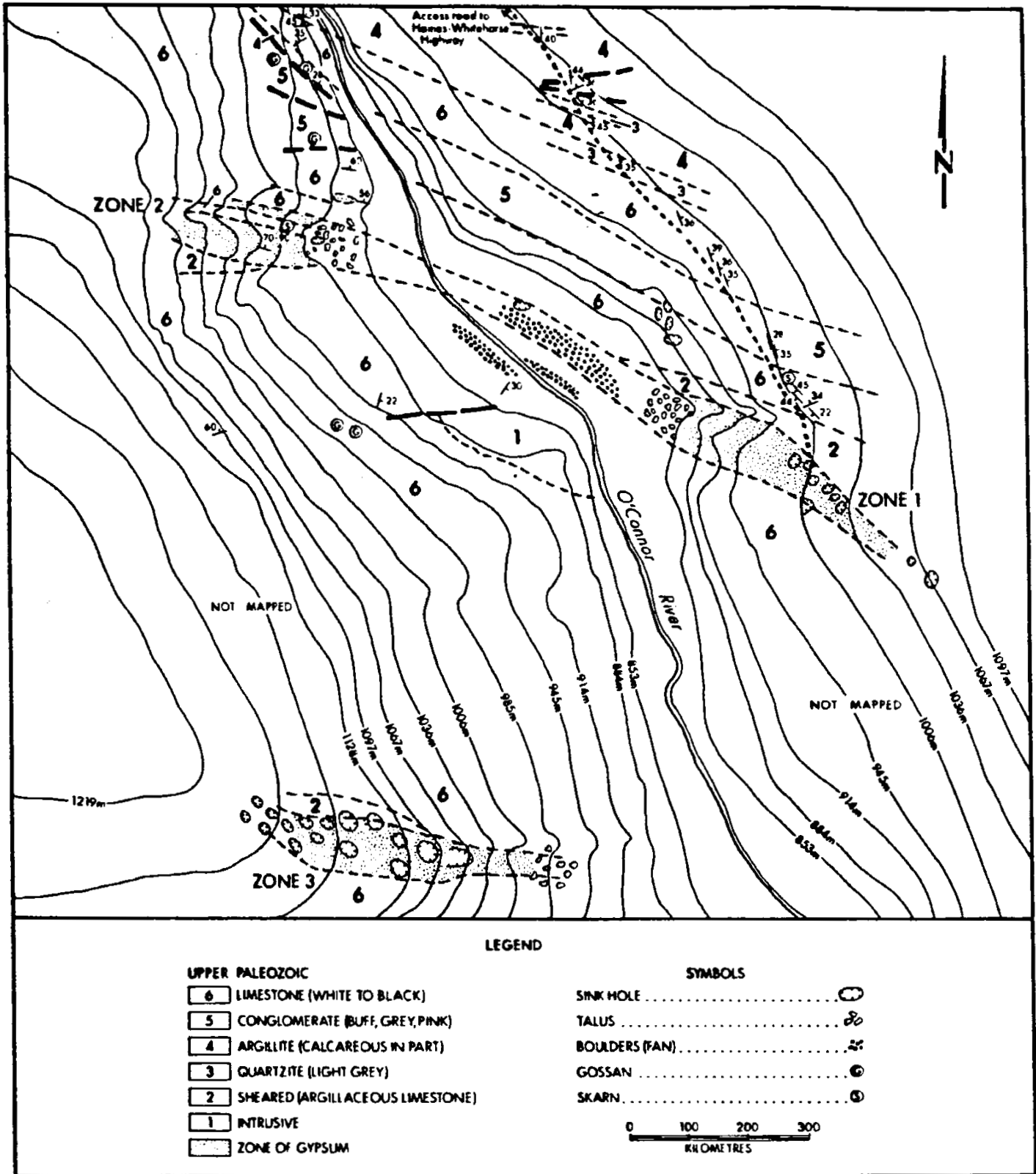
At least one period of glaciation is evident to the highest elevations of the East Zone. Here a glacial till is found which contains 20% sand, 40% silt and clay, 30% pebbles and cobbles and 10% boulders (up to 1 m diameter). On these upper slopes (34°) overburden thickness is 3-5 meters and this thins toward the river (slopes up to 40°).

FIG. 3 Regional Geology



(G.V.White, B.C.M.E.M.P.R. Geol. Fieldwork 1985, Paper 1986-1)

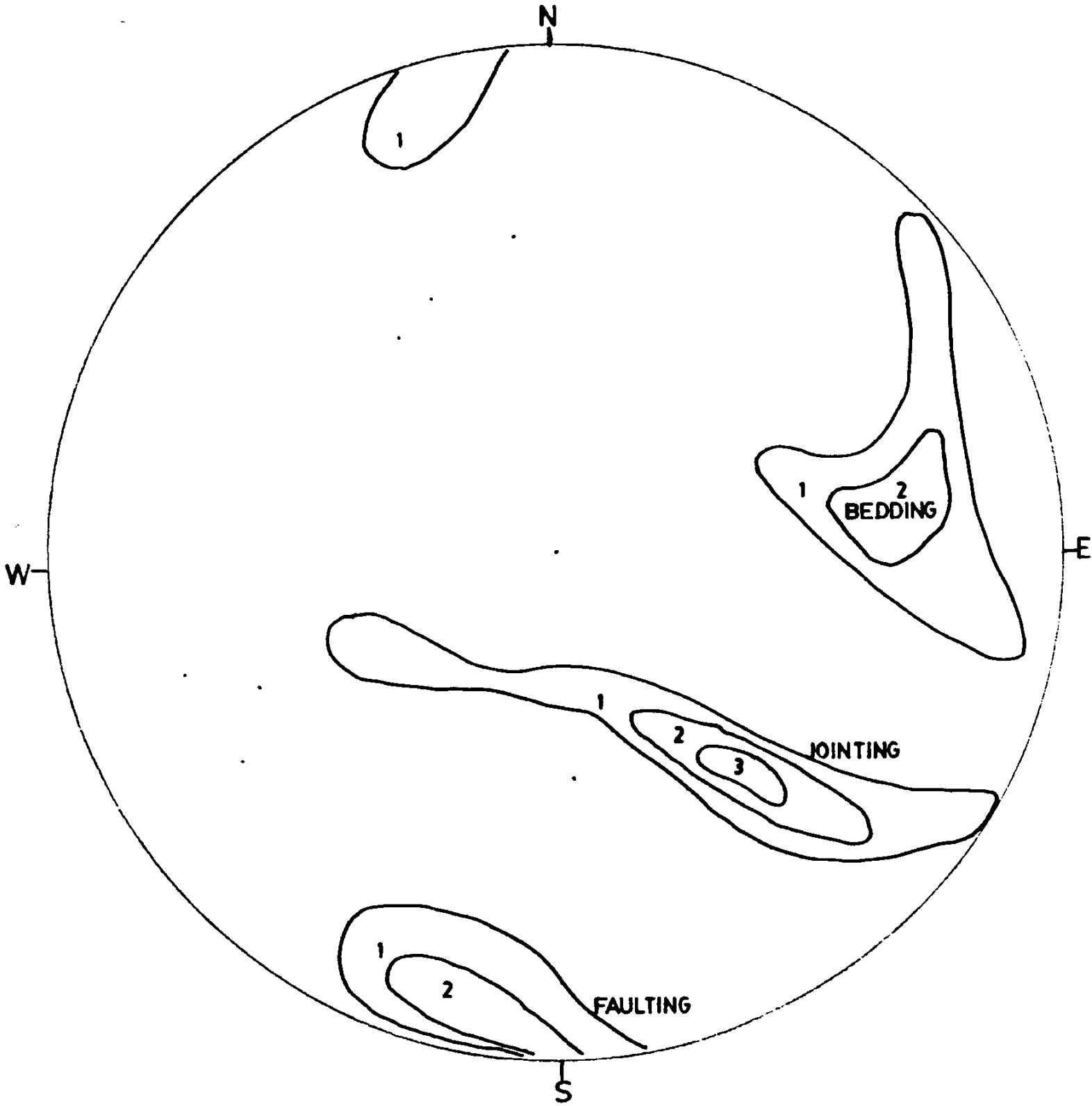
FIG. 4 PROPERTY GEOLOGY



(G.V. White, B.C.M.E.M.P.R., Geol. Fieldwork, 1985, Paper 1986-1)

FIG. 5

O'Connor River, BC.
East Zone-Pole Plots
(Kalsbeek Net)



4.0 DIAMOND DRILLING

A total of 690 m of NQ and BQ diamond drilling was done using a Longyear-38 diamond drill (see table 2). Drilling strategy was to evaluate the length of the gypsum body as indicated by sinkholes and to discover its true thickness and grade at depth by locating both the hanging wall and footwall contacts. DDH-86-6 was drilled vertical to test the grade of the gypsum at depth and down dip.

Ore grade gypsum was considered to be any mining unit with an arithmetic average of over 72% gypsum. For ore reserve calculations a density of 2.1 tonne/m³ was used. The average depth of hydration was found to be 41 meters from the paleosurface.

Six cross-sections and one longitudinal section were made to determine ore reserves (see Figures 4 and 5). From each cross-section the area of gypsum was determined (not including amphibolite) as follows:

AA'	=	3,879 m ²
BB'	=	2,577 m ²
CC'	=	3,995 m ²
DD'	=	2,753 m ²
EE'	=	2,103 m ²
FF'	=	nil

The length of 390 m and an average gypsum area of 3,049 m² (AA'-EE') was used to calculate total reserves. It was thought that the strike length could be extended 50 m east of EE' based on sinkholes, and 50 m west of AA' because of gypsum outcrop north of and below AA'.

TABLE 2

DIAMOND DRILLING SUMMARY

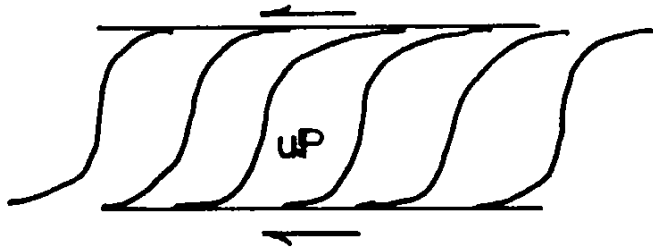
<u>HOLE #</u>	<u>INCLINATION</u>	<u>CASING</u>	<u>BEDROCK DRILLED (m)</u>	<u>DEFL'N</u>	<u>FINAL DEPTH (m)</u>	<u>COMMENTS</u>
86-1	-60, AZ180	19	102	-*-	102	NQ
86-2	-60, AZ180	3	70	-68	70	NQ
86-3	-45, AZ180	3	103	-55	105	NQ
86-4	-45, AZ180	3	27	-*-	27	NQ
86-5	-60, AZ200	2	105	-68	108	NQ & BQ
86-6	-90	5	144	-85	148	BQ
86-7	-60, AZ200	0.6	64	-63	67	BQ
86-8	-60, AZ180	0.6	61	-64	63	BQ
TOTAL =					690	

DEPOSIT ORIGIN

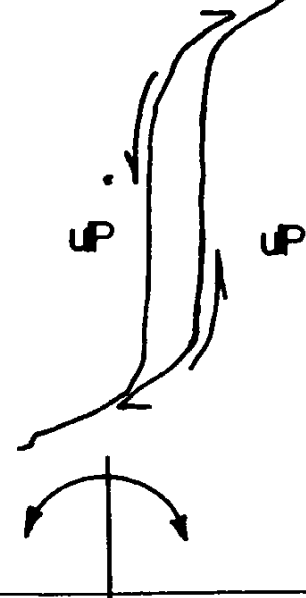
(One Hypothesis)

FIG. 6

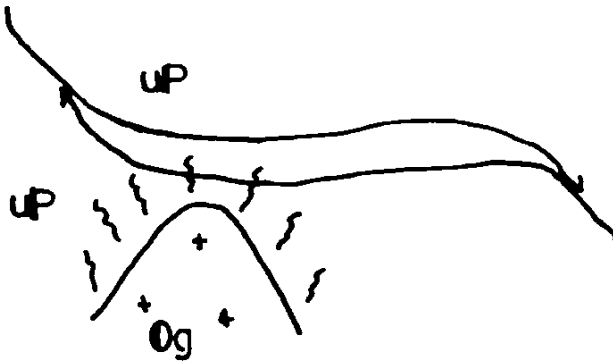
① Hinterland Duplex Thrust Faulting



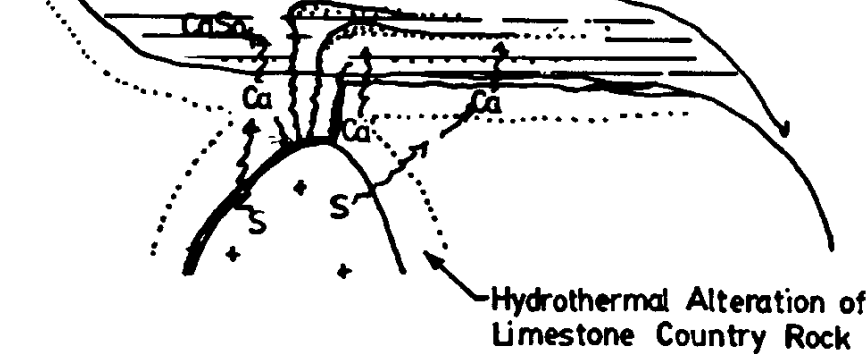
② Anticlinal Uplift - 'Horst' Development



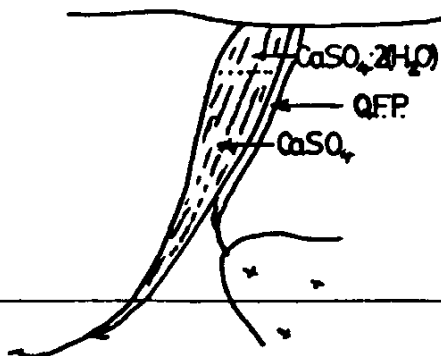
③ Overturning, Intrusion



④ Anhydrite Formation, Exhalation of Tuff & Extrusion of Amphibolite.



⑤ Further Tilting, Erosion & Hydration, Emplacement of Quartz-Feldspar-Porphphyry.



From Figures 4 & 5:

$$\text{East Zone Reserves} = 390 \text{ m} \cdot 3,049 \text{ m}^2 \cdot 2.1 \text{ tonne/m}^3 = 2.50 \text{ million tonnes} \\ \text{(of 79\% gypsum)}$$

Blending of the intercalated amphibolite would reduce the overall grade to approximately 70% and increase the tonnage to 2.8 million tonnes. The blending of amphibolite should have no negative effects for wallboard industry use (as it would remain inert throughout the wallboard process); but would be detrimental for cement industry use as the % insolubles, iron oxides and alumina oxides would be increased. It would appear that this deposit is of marginal quality for cement manufacturers without any blending of amphibolite as SO_3 seems to average 40% throughout the hydration zone (low) and the insolubles and oxides are quite high (especially in the southern/footwall side of the deposit where an increase in tuffaceous material is encountered). Amphibolite could be separated out during mining with relative ease due to its contrasting colour and hardness. It could be that the lab procedure used to test for insolubles and Fe/Al oxides was more rigorous than that used by cement companies thereby giving higher results and this should be checked.

The nature of the West Zone is the same as that of the East Zone although it was reported that complex deformation exists there (McDougall, 1966). The Kim Zone was never visited by this author due to inaccessibility and time constraints.

5.0 CONCLUSIONS

The East Zone contains 2.50 million tonnes of gypsum suitable for wallboard industry use and possibly for cement industry use. The gypsum body dips steeply north (60° - 70°), is bounded by limestone south and north and contains 2-3 sills of amphibolite (up to 15m thick) and wisps of tuffaceous material nearer its southern half. The East Zone is a tabular body (approximately 400 meters x 100 meters x depth unknown), of which (from surface) only the top 41 meters has been hydrated from anhydrite into gypsum. It is a typical hydrothermal origin gypsum deposit similar to that at Falkland, B.C. or Chichagof Island, Alaska.

6.0 RECOMMENDATIONS

An engineering study should be carried out to determine road building and maintenance costs, equipment costs, stripping ratio (from 'life of pit' plan-waste rock/ore ratio), port facility capacity and costs, transportation costs, labour costs (seasonal operation only), etc. A study of market potential also has to be done. Queenstake Resources Ltd. will then be in a position to decide upon either mining the deposit on its own or selling it to major gypsum products company.

7.0 BIBLIOGRAPHY

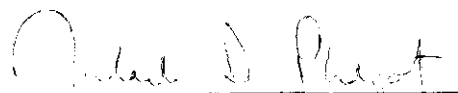
- J. J. McDougall - "Preliminary Report on the O'Connor River Gypsum Deposits" (for Ventures Limited), 1958.
- J. J. McDougall - "Additional Preliminary Report on O'Connor River Deposits" (for Ventures Limited), 1959.
- J. J. McDougall - "Report on O'Connor River Gypsum Deposit" (for Falconbridge), 1966.
- G. V. White - "Preliminary Report - O'Connor River Gypsum Deposit" (B.C.M.E.M.P.R.; Geological Fieldwork - 1985).
- J. J. McDougall and
D. A. Perkins - "Geological Report on O'Connor Gypsum" (for Haines Gypsum Inc.), 1986.

STATEMENT OF QUALIFICATIONS

I, MICHAEL DERRECK PHILPOT, consulting geologist, of M.D.P. Management Services, with a business address of 2724 Bayview Street, Surrey, British Columbia, HEREBY CERTIFY THAT:

1. I am a graduate from the University of British Columbia (1978) with a B.Sc. degree majoring in Geology. I am also a graduate from City University (1986) with an M.B.A. degree majoring in Business Administration.
2. From 1978 to the present, I have been actively engaged in various disciplines relating to the mining industry, primarily at locations in western North America.
3. I personally visited the O'Conner River Gypsum deposit in June 1986, and have been engaged by Queenstake Resources Ltd. to conduct various preliminary feasibility studies relating to the project.
4. I have no interest in Haines Gypsum Inc. or Queenstake Resources Ltd., or in the subject property, nor do I expect to receive any interest.
5. I am a Fellow of the Geological Society of Canada.
6. I approve of this report being used for a Prospectus or Statement of Material Facts.

DATED in Vancouver, British Columbia this the 14 day of November, 1986.




Michael D. Philpot, B.Sc., M.B.A.

STATEMENT OF QUALIFICATIONS

I, Glen M. Rodgers of P.O. Box 63, Skookumchuck, B.C.; do hereby certify that:

- 1) I am a graduate from the University of Manitoba (1977) with a Bachelor of Science degree in Geological Engineering.
- 2) From 1977 to 1981 I worked as a geologist in mineral exploration in British Columbia and the Yukon Territory.
- 3) From 1982 to June, 1986 I have worked as a geological consultant only for Domtar, Inc.
- 4) I have researched every known gypsum deposit in western Canada and have personally examined most western Canada gypsum deposits (including Alaska).
- 5) I personally supervised field work on the O'Connor River gypsum claims during 1986 for Queenstake Resources Ltd. and have interpreted all data resulting from this work.
- 6) I am a fellow of the Geological Association of Canada and am eligible for membership as a Professional Engineer.



(G. M. Rodgers)



O'CONNOR RIVER GYPSUM JOINT VENTURE
STATEMENT OF EXPENDITURES
(for the 11 months ended November 30, 1986)

Personnel

K. Galovich	Project Supervisor	June - November		\$13,830
M. Philpot	Consultant	May - November		11,097
G. Rodgers	Field Supervisor	July - September	33 days @ \$215 day (field) 19 days @ \$150.50 day (office)	10,159
K. Hansen	Technician	July 20 - Aug. 14	@ \$130/day	3,757
M. Silbernagel	Technician	July 23 - Aug. 14	@ \$220/month	2,049
L. Griswold	Equipment Operator	July 21 - Aug. 16	332 hrs @ \$14/hr	6,231
S. Brown	Cook	July 19 - Aug. 16	@ \$100/day	2,850

Total wages includes other costs and benefits, inclusive of overtime (1½x) for hourly personnel.

TOTAL PERSONNEL \$49,973

Camp Costs

Food	\$ 4,164
Propane	125
Building Supply & Maintenance	13,600
Field Camp Supplies	<u>3,751</u>

TOTAL CAMP COSTS \$21,640

Contracting

Diamond Drilling 690 m NQ/BQ
(Longyear - 38)

TOTAL CONTRACTING COSTS \$64,740

Assay

294 samples @ \$40/sample

Gypsum rock samples analysed for % Free H₂O, % combined H₂O
NaCl, CaO, So₃, silica & insolubles, iron and aluminium oxides (R₂O₃)
MgO, % CaSO₄ 2H₂O

TOTAL ASSAY \$11,760

Office Expenses

Communications	\$ 1,171
Insurance	580
Legal	4,640
Maps, Prints, Drafting	4,818
Office Supplies & Expenses	539
Fees, Permits & Licenses	323
	<u> </u>
TOTAL OFFICE EXPENSES	<u>\$12,071</u>

Fuel

Fuel-Diesel	\$ 7,874
Fuel-Gas	914
	<u> </u>
TOTAL FUEL	<u>\$ 8,788</u>

Travel

Travel-Fixed Wing	\$ 2,832
Travel-Helicopter	15,021
Travel-Vehicle Rental, Gas	643
Travel-Food & Accommodation	5,467
	<u> </u>
TOTAL TRAVEL	<u>\$23,963</u>

Equipment

D8K Dozer Rental	228 hrs. @ \$100/hr.	\$28,800
D7F Dozer Rental & Operation	71 hrs. @ \$120/hr	8,520
988B Front End Loader & Operation	4 hrs. @ \$140/hr	560
966C Front End Loader & Operation	4 hrs. @ \$ 80/hr	320
ATV Rental		1,465
Rock Crusher Rental		713
Equipment Maintenance		10,629
Vehicle Maintenance		1,076
		<u> </u>
TOTAL EQUIPMENT		<u>\$52,083</u>

TOTAL EXPENDITURES **\$245,018**

Expenditure Allocation	Queenstake Resources Ltd.	\$122,689
	Haines Gypsum Inc.	122,689

APPENDIX A

DIAMOND DRILL LOGS

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-1 PAGE 2
 DEPTH :

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	% Pyrite	Core Angle	% SiO ₂	% MgO	% SO ₃	% H ₂ O	% NaCl	% CaO
100 96	165-168 168-173	5 5	GYPSUM CONT'D. (S.A.P.)	113.2- 118.2	34.5- 36.0	0.03	70° 50°	91.2	1.44	46.0	19.1	<0.03	31.4
100 100	173-178 178-183	5 5	43°-43.5° FAULT (D. GYPSIFEROUS GOUSSÉ)	118.2- 123.0	36.0- 37.5	0.04		89.3	1.62	46.5	18.7	<0.03	32.3
100 100	183-188 188-193	5 5	44.5-45.5° FAULT (BIOTITE & SIDERITE MICH.)	123.0- 128.0	37.5- 39.0	0.02	55°	71.2	1.30	48.2	14.9	<0.03	31.3
100 100	193-198 198-200	5 2	*(POSSIBLY JUST WASH FROM ABOVE DURING TUBE CHANGE)	128.0- 132.0	39.0- 40.5	0.08		73.6	0.90	47.7	15.4	<0.03	32.8
82 71	200-205 205-208	5 3	45°-46.5°	132.9- 137.8	40.5- 42.0	0.38		57.3	3.00	29.2	12.0	<0.03	30.7
80 69	208-212 212-216	4 4	46°-47.8° } 100% CRYSTALLINE (SERICITE & ANHYDRITE)	137.8- 142.7	42.0- 43.5	0.36		37.4	1.16	32.6	7.83	<0.03	32.6
98 100	216-220 220-225	4 5	48°-49.0°	142.7- 147.6	43.5- 45.0	0.47		55.4	5.52	28.2	11.6	<0.03	28.2
100 92	225-227 227-231	2 4	49°-49.8° (~20% SERICITE/SIDERITE, MUSCOVITE LAMINAE)	147.6- 152.6	45.0- 46.5	0.08	50°	33.7	2.22	51.6	7.06	<0.03	51.6
75 85	231-233 233-238	2 5	@ 54° MINOR TUFFACEOUS LAYERS (CHERTIC - 1/2" THICK)	152.6- 157.5	46.5- 48.0	0.17	45°	40.0	1.28	53.9	8.37	<0.03	53.9
100 98	238-243 243-247	5 4	56°-56.5° (~20% SERICITE/SIDERITE, MUSCOVITE/SCAPOLITE)	157.5- 162.4	48.0- 49.5	0.14	50°	71.7	2.06	49.2	15.0	<0.03	49.2
73 100	247-250 250-255	3 5	57°-60.5° V. CRYSTALLINE (ANHYDRITE)	162.4- 167.3	49.5- 51.0	0.45	40°	65.9	1.84	34.2	13.8	<0.03	34.2
98 100	255-258 258-263	3 5		167.3- 172.3	51.0- 52.5	0.42	40°	56.8	5.14	28.8	11.9	<0.03	28.8
97 98	263-268 268-273	5 5	60°-71.3° AMPHIBOLITE SILL (WITH TR.)	172.3- 177.1	52.5- 54.0	0.36		78.3	3.88	39.8	16.4	<0.03	39.8
9A 99	273-278 278-284	5.5 5.5	LENSEY INCLUSIONS OF SECONDARY GYPSUM 20% MADE (BIOTITE/AMPHIBOLE) CRYSTALS TO 0.8	177.1- 182.1	54.0- 55.5	0.11	40°	55.9	2.40	46.5	11.7	<0.03	46.5
68 100	284-290 290-295	6.5 5.5	LONG; ESTIMATE ~ 3% BYRRHOTITE (P. IS UBIQUITOUS FROM 60°-71.3°). DISTINCTIVE 1.5" CHILL	182.1- 187.0	55.5- 57.0	0.55	40°	64.5	4.68	40.1	13.5	<0.03	40.1
9A 96	295-300 300-305	5 5	MARGINS (TOP & BOTTOM); MOD. FRACTURED.	187.0- 191.9	57.0- 58.5	0.14	40°	40.1	1.94	47.4	8.4	<0.03	47.4
100 100	305-310 310-315	5 5	@ 71.3° CONTACT IS CONFORMABLE	191.9- 196.8	58.5- 60.0	0.21		29.2	1.28	45.6	6.12	<0.03	45.6
100 100	315-320 320-323	5 3		196.8- 201.8	60.0- 61.5	1.63	40°	41.2	23.8	32.7	8.62	<0.03	32.7
100 100	323-325 325-329	2 4		201.8- 206.7	61.5- 63.0	N/S		0	-	-	-	-	-
100 100	329-331 331-332	2 1		206.7- 211.6	63.0- 64.5	N/S		0	-	-	-	-	-
100 100	332-333 333-334	1 1		211.6- 216.6	64.5- 66.0	N/S		0	-	-	-	-	-

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-1
 DEPTH: PAGE 3

COLLAR ELEV.:
 LATITUDE:
 DEPARTURE:

BEARING:
 DIP:

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	% CO ₂	Core Angle	% GYPSUM	% Mica	% SO ₂	% H ₂ O	% NaCl	% CaO
			71.3-92.6 GYPSUM (WITH MINOR INTER-LAYERED SIDERITE)	216.5-221.5	66.0-67.5	N/S		0	—	—	—	—	—
			ANKERITE / BIOTITE + MUSCOVITE, BIC. 77.0-81.3: MOSTLY SERICITE, CHLORITE	221.5-226.4	67.5-69.0	N/S		0	—	—	—	—	—
			SIDERITE, DOLAMITE, BIOTITE, MUSCOVITE, SCAPOLITE, ETZ, ESTIM. ~30% GYPSUM (MASSIVE) ANHYDRITE?	226.4-231.3	69.0-70.5	N/S	35°	0	—	—	—	—	—
			88.0-90.0: SAME AS ABOVE	231.3-236.2	70.5-72.0	N/S	45°	0	—	—	—	—	—
				236.2-241.2	72.0-73.5	1.43	005°	43.3	11.9	22.1	9.06	40.03	13.4
				241.2-246.1	73.5-75.0	2.02	40°	11.8	13.3	5.8	24.7	<0.03	35.2
				246.1-251.0	75.0-76.5	1.1	40°	17.0	5.5	40.3	3.57	<0.03	35.5
				251.0-255.9	76.5-78.0	4.46	38°	17.0	37.2	26.1	3.75	<0.03	31.7
				255.9-260.8	78.0-79.5	3.65	40°	38.7	29.9	29.3	8.10	<0.03	23.3
				260.8-265.8	79.5-81.0	4.05		22.2	33.6	26.5	4.65	<0.03	21.8
				265.8-270.1	81.0-82.5	2.33	65°	22.2	21.4	24.7	4.64	<0.03	27.2
				270.1-275.6	82.5-84.0	1.2	70°	28.7	8.4	37.9	6.00	<0.03	33.2
				275.6-280.5	84.0-85.5	1.60		35.5	15.2	23.2	7.44	<0.03	28.0
				280.5-285.5	85.5-87.0	0.30		4.3	2.5	55.4	0.9	<0.03	39.4
			92.6-101.0 QUARTZ-FELDSPAR PORPHYRY	285.5-290.4	87.0-88.5		30°	42.2	9.0	30.0	8.04	<0.03	31.0
			GREY/TAN, VEG. MATRIX WITH SILICEOUS / FELDSPATHIC	290.4-295.3	88.5-90.0			17.3	14.9	7.7	3.62	<0.03	28.7
			PORPHYROBLASTS (GRANOPHYRIC TEXTURE) (TO 0.5" φ); TR.	295.3-300.2	90.0-91.5		30°	84.1	4.7	41.2	17.6	<0.03	30.0
			Py THROUGHOUT 94.0-95.0: FAULT (GYPSIFEROUS) (SECONDARY)	300.2-305.1	91.5-93.0		70°	45.9	24.9	22.5	9.5	<0.03	24.3
			98.5-101.4: V. FRACTURED GROUND	305.1-310.1	93.0-94.5	NS		—	—	—	—	—	—
				310.1-315.0	94.5-96.0	NS		—	—	—	—	—	—
				315.0-319.9	96.0-97.5	NS	005°						

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-2 PAGE 2
 DEPTH :

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Dip. SAMPLE	Metric SAMPLE	% FeO*	Core Angle	% GYPSUM	% ANHYDR.	% SO ₃	% H ₂ O	% NaCl	% CaO
78	200-205	5	28°-29° ALTERATION ZONE (SCAPOLITE,	113.2-	34.5-		80°	45°	6.2		9.55	<0.03	30°
95	205-210	5		118.2-	36.0-								
93	210-215	5	DOLomite, SIDERITE, ANKERITE, SERICITE) V. COMPACTENT Rk.	118.2-	36.0-			50.2	2.7		10.5	<0.03	28°
89	215-220	5		123.0-	37.5-								
100	220-225	5	29°-63° GYPSUM / ANHYDRITE (HARDNESS	123.0-	37.5-		30°	41.4	0.3		8.7	0.045	30°
65	225-230	5		128.0-	39.0-								
			INCREASES AFTER ~40m; OCCASIONALLY CRYSTALLINE	128.0-	39.0-		80°	48.2	0.2		10.1	<0.03	35°
			(ANHYDRITE) (ANHYDRITE 28-42)	132.0-	40.5-								
			GYPSUM 42-52	132.2-	40.5-		40°	52.1	8.4		10.9	<0.03	29.3
			ANHYDRITE 52-59	137.8-	42.0-								
			GYPSUM 59-62	137.8-	42.0-			72.6	4.4		15.2	<0.03	29.6
			CHLORITIC INT @ 32°-32.6	142.7-	43.5-								
			@ 32°-33°	142.7-	43.5-		30°	72.6	15.5		15.2	<0.03	24°
			@ 33.6-34°	147.6-	45.0-								
			@ 34.3-34.7	147.6-	45.0-		35°	67.4	5.2		14.1	<0.03	28.5
			@ 41.5-42°	152.6-	46.5-								
			@ 43.4-43°	152.6-	46.5-			61.1	3.6		12.8	<0.03	29.5
			@ 44.7-45.7	157.5-	48.0-								
			@ 46.3-46.8	157.5-	48.0-		55°	75°	0.4		15.7	<0.03	30.9
			@ 52.8-54°	162.4-	49.5-								
			@ 54.3-54.5	162.4-	49.5-		60°	86.9	0.3		18.2	<0.03	29.3
			@ 55°-55.5	167.3-	51.0-								
			@ 56.1-58.5	167.3-	51.0-			85°	1.4	45°	17.8	<0.03	32.6
			@ 60.4-61.0 (MANGANESE / LIMONITE)	172.3-	52.5-								
			@ 61.4-61.5 "	172.3-	52.5-		45°	44.5	7.8	22.8	9.3	<0.03	30.1
			@ 62.1-62.4 "	177.1-	54.0-								
				177.1-	54.0-		45°	57.3	22.7	28.6	12.0	<0.03	25.2
				182.1-	55.5-								
			63°-70.1 (E.O.N.) ALTERATION ZONE	182.1-	55.5-			58.8	6.8	29.5	12.9	<0.03	31.5
				187.0-	57.0-								
			(MYLOTINIZED) OXIDIZED QUARTZ-FELDSPAR-ORAVE	187.0-	57.0-		45°	24.6	13.9	13.0	5.2	<0.03	27.2
			(AS IN 2011-86); ALTERED COMPLETELY TO	191.9-	58.5-								
			LIMONITE, CHLORITIC SAND & CLAY. RELIC	191.9-	58.5-			78.8	6.3	42.2	16.5	<0.03	30.2
			FOR PHYROBLASTS VISIBLE; NOT GYPSIFEROUS - MAY	196.9-	60.0-								
			HAVE OTHER HYDRUS MINERALS (SCAPOLITE?)	196.9-	60.0-		55°	77.2	13.0	40.0	16.3	<0.03	28.2
				201.8-	61.5-								
				201.8-	61.5-		45°	76.4	8.0	38.3	16.0	<0.03	30.3
				206.7-	63.0-								
				206.7-	63.0-			14.6	53.7	4.5	3.1	<0.03	14.9
				211.6-	64.5-								
				211.6-	64.5-			5.5	63.9	0.42	1.2	<0.03	9.6
				216.6-	66.0-								

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-3 PAGE 1
 DEPTH : 345' (105?m) NR

COLLAR ELEV.: 1080m
 LATITUDE : 1456 E
 DEPARTURE : 775 N

BEARING: 180
 DIP : -45°

DATE: AUG 3, 1986
 LOGGED BY: G. ROBERTS
 % CORE RECOVERY: 81.5%

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	R ₂ O ₃ %	Core Angle	% GYPSUM	% IN. STRE	% SO ₃	% H ₂ O	% NaCl	% Ca
16	0-9	9	0-3 OVERBURDEN	9.8 - 14.8	3.0-4.5	0.36		75°	8.76	37.4	15.7	<0.03	30.1
66	9-14	5											
64	14-18	4	3-32 ² GYPSUM ; V. WHITE, MASSIVE	14.8-19.7	4.5-6.0	0.06		93 ²	0.74	46.4	19.5	<0.03	32.1
80	18-20	2											
80	20-25	5	LOCALLY SERICITIC; IMPURITIES 1/2 OF TOT.	19.7-24.6	6.0-7.5	0.37		86.5	3.44	42.1	18.1	<0.03	31.8
80	25-30	5											
75	30-35	5	(ESTIMATED); CONSISTENT HARDNESS (2-2.5)	24.6-									
82	35-40	5		29.5	7.5-9.0	0.35	70°	87.9	2.90	43.3	18.4	<0.03	32.1
88	40-45	5	(3-9.5) MODERATELY FRACTURED.	29.5-									
65	45-50	5		34.5	9.0-10.5	0.27	45°	80.3	2.94	39.1	16.8	<0.03	31.6
55	50-55	5	(9.5-20°) HIGHLY "										
88	55-60	5		34.5-	10.5-12.0	0.12	85°	62.6	1.96	30.9	13.1	<0.03	32.3
88	60-65	5		39.4									
15	65-70	5	(21.3-22°) " "	39.4-	2.0-13.5	0.27	70°	77.4	3.66	38.3	16.7	0.045	31.5
90	70-72	2		44.3-									
55	72-77	5	(23.7-24°) FAULT (MYLONITE/GRANULITE)	49.2		0.09		77.4	1.38	38.4	16.7	<0.03	32.4
83	77-80	3		49.2-	15.0-16.5	0.18	35°	60.2	2.80	29.7	12.6	<0.03	31.5
100	80-85	5		54.1									
75	85-90	5	32 ² -40 ⁵ SINKHOLE EXTENSION (WASH-	54.1-	16.5-18.0	0.26	60°	85.1	3.16	42.2	17.8	<0.03	31.6
90	90-95	5		59.1									
48	95-100	5	OUT CHANNEL) (AMPHIBOLITE, L.S., DIORITE)	59.1-	18.0-19.5	0.42	45°	43.1	5.48	21.8	9.0	<0.03	20.7
65	100-105	5		64.0									
33	105-110	5	GYPSUM ; SAND - BOULDER SIZE)	64.0-	19.5-21.0	0.24		46.9	5.40	22.9	9.8	<0.03	30.9
30	110-115	5		68.9									
12	115-120	5		73.8	21.0-22.5	0.16	60°	76.5	2.54	38.1	16.0	<0.03	32.2
15	120-125	5		73.8-									
15	125-128	3	40 ⁵ -64 ⁹ GYPSUM (S.A.P.) (OCCASIONAL	73.8-	22.5-24.0	0.27	40°	79.3	2.28	39.4	16.6	<0.03	32.3
45	128-130	2		78.7									
62	130-134	4	SIDERITE/SERICITE INTERLAYERS = 1/2 TOT.	78.7-	24.0-25.5	0.35	45°	77.9	5.32	39.1	16.3	<0.03	31.5
88	134-139	5		83.7									
100	144-149	5		83.7-	25.5-27.0	0.13	40°	63.1	2.70	31.8	13.2	<0.03	31.2
45	149-152	3	45°-45 ³ - MODERATELY FRACTURED.	88.6									
50	152-153	1	(46 ² -46 ⁷) - INTENSIVELY " (GOUGE)	88.6-	27.0-28.5	0.16		85.1	2.26	42.2	17.8	<0.03	32.1
45	153-158	5		93.5									
100	158-163	5	(49 ² -49 ⁷) - MODERATELY "	93.5-	28.5-30.0	0.40		77.4	6.12	38.2	16.2	<0.03	30.6
92	163-168	5		98.4									
88	168-173	5	(58 ⁵ -64 ⁹) - TRANSLUCENT/MASSIVE	98.4-	30.0-31.5	0.26	35°	87.9	2.92	43.9	18.4	<0.03	32.1
88	173-178	5		103.4									
97	178-183	5		103.4-	31.5-33.0	0.88		60.2	24.2	30.4	12.6	<0.03	25.1
97	183-188	5		108.3									
				108.3-	33.0-34.5	N/S		-	-	-	-	-	-

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 06-3 PAGE 2
 DEPTH :

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REF	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	R ₂₀₅	Core Angle	% GYPSUM	% TRANS	% SO ₃	% H ₂ O	% NaCl	% CaO
B3 100	185-194 194-199	5 5	64 ^a -68 ^B GYPSIFEROUS/AMPHIBOLITE TUFF	113.2- 118.2	34.5- 36.0	N/S							
100 100	199-204 204-209	5 5	TR. P ₁ UBIGINOUS; CHLORITE, DK GRN/BLACK AMPHIBOLITE	118.2- 123.0	36.0- 37.5	N/S							
100 98	209-214 214-219.5	5 5.5	BIOTITE - PHLOGOPITE - SERICITE INTER LAYERED	123.0- 128.0	37.5- 39.0	N/S							
95 100	219.5-220.5 220.5-225.5	5 5	WITH GYPSUM (SECONDARY?) AS WISPS	128.0- 132.0	39.0- 40.5	N/S							
75 100	225.5-230 230-235	4.5 5	LAMINAE, LAYERS UP TO 1 cm THICK; LIMY	132.0- 137.8	40.5- 42.0	.25		76 ⁵	2 ¹	38 ⁶	16 ⁰	<0.03	32 ³
91 100	235-240 240-245	5 5	THROUGHOUT (35°) (80°)	137.8- 142.7	42.0- 43.5	.07	35°	88 ⁴	0 ⁸	44 ⁷	18 ⁵	"	32 ⁷
86 99	245-250 250-255	5 5	67.4: F ₀ (?) CROSSCUTS S ₀	142.7- 147.6	43.5- 45.0	.05	40°	88 ⁴	0 ⁸	38 ⁰	18 ⁵	"	32 ⁹
100 100	255-260 260-265	5 5	68 ^B -74 ⁶ GYPSUM/ANHYDRITE (MOSTLY	147.6- 152.6	45.0- 46.5	.16		75 ⁵	1.66	39 ⁸	15 ⁸	"	32 ⁰
97 98	265-270 270-275	5 5	TRANSLUCENT TR. BIOTITE - PHLOGOPITE - SIDERITE	152.6- 157.5	46.5- 48.0	.20		59 ⁷	1.96	41 ¹	12 ⁵	"	33 ³
98 98	275-280 280-284	5 4	(23% TOT) SERICITE; (H=2 1/2, 3) ANHYDRITE; MINOR KAOLINITE	157.5- 162.4	48.0- 49.5	.05	30°	81 ⁷	0.90	41 ²	17 ¹	"	32 ⁵
98 100	284-289 289-291	5 2	+ LT. GREEN TALC (SECONDARY) MINERAL - FRACTURE INFILLING ON SLIP SURFACES; OCC. LIMY (CaCO ₃)	162.4- 167.3	49.5- 51.0	.10	50°	79 ⁰	1.44	36 ³	16 ⁷	"	32 ³
100 98	291-296 296-300	5 4	74 ⁶ -76 ⁵ GYPSIFEROUS/AMPHIBOLITE TUFF	167.3- 172.3	51.0- 52.5	.21	40°	71 ⁷	2.54	35 ¹	15 ⁰	"	31 ⁸
99 98	300-305 305-310	5 5	76 ⁵ -82 ⁰ BIOTITE - AMPHIBOLITE - SERICITE - PHLOGOPITE - TR. TALC; OCC. V. LIMY, TR. P ₁	172.3- 177.1	52.5- 54.0	.24		71 ⁷	2.90	44 ³	15 ⁰	"	31 ⁷
97 100	310-315 315-320	5 5		177.1- 182.1	54.0- 55.5	.16	55° 60°	90 ⁸	1.60	41 ⁵	19 ⁰	"	32 ³
98 100	320-325 325-330	5 5	82 ⁰ -82 ⁶ AMPHIBOLITE SILL, MASSIVE	182.1- 187.0	55.5- 57.0	.13	50°	84 ⁶	1.80	40 ⁸	17 ⁷	"	31 ⁷
98 100	330-335 335-340	5 5	INCR. CHLORITE / P ₁ AT TOP, INCR. BIOTITE / H ₀ AT	187.0- 191.9	57.0- 58.5	.127		83 ¹	2.32	40 ⁵	17 ⁴	"	31 ⁷
100	340-345 E.O.H.	5	BOTTOM, ~4% P ₁ .	191.9- 196.0	58.5- 60.0	.46		76 ⁵	6.54	46 ⁰	16 ⁰	"	34 ⁷
				196.0- 201.8	60.0- 61.5	.12	45°	58 ³	1.70	45 ⁹	12 ²	"	33 ⁸
				201.8- 206.7	61.5- 63.0	.11	35°	72 ²	1.28	34 ²	15 ¹	"	32 ²
				206.7- 211.6	63.0- 64.5	.44	65°	54 ⁵	5.22	24 ³	11 ⁴	"	32 ²
				211.6- 216.6	64.5- 66.0	2.64		50 ²	21.70	22 ³	10 ⁵	"	24 ³

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-3 PAGE 3
 DEPTH :

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Dip. SAMPLE	Metric SAMPLE	% R ₂ O ₃	Core Angle	% INSOL.	% GYPSUM	% SiO ₂	% H ₂ O	% NaCl	% CaO
				216.5- 221.5	66.0- 67.0	3.88	65° 70°	36.4	45.9	22.3	9.6	<0.03	17.7
				221.5- 226.4	67.5- 69.0	4.18	50°	39.5	35.9	21.1	7.5	"	18.1
				226.4- 231.3	69.0- 70.5	0.86	40°	6.3	31.8	36.6	6.7	"	33.8
				231.3- 236.2	70.5- 72.0	0.32	55°	7.0	26.2	40.2	5.5	"	35.2
				236.2- 241.2	72.0- 73.5	0.97		10.6	22.7	29.5	4.8	"	32.2
				241.2- 246.1	73.5- 75.0	2.42	85°	22.3	43.5	22.9	9.1	"	25.0
				246.1- 251.0	75.0- 76.5	3.33		33.3	36.8	25.1	7.7	"	20.7
				251.0- 255.9	76.5- 78.0	0.33	45°	3.4	15.4	52.0	3.2	"	38.3
			82.6-105.2 GYPSUM / ANHYDRITE	255.9- 260.8	78.0- 79.5	2.53	45°	21.1	13.9	38.1	2.9	"	30.4
			TRANSLUCENT & OPAQUE MASSIVE & CG. CRYSTALLINE	260.8- 265.8	79.5- 81.0	1.42		20.1	9.9	39.2	2.1	"	31.0
			40% INTERLAYERED SERICITE - ALLOGOPITE - BIOTITE	265.8- 270.1	81.0- 82.5	4.35		31.1	18.3	12.6	3.8	"	23.5
			-CHLORITE - SIDERITE; LIMY (CaCO ₃); SOME	270.1- 275.6	82.5- 84.0	4.85	35°	11.4	58.8	32.2	12.3	"	30.1
			AMPHIBOLE.	275.6- 280.5	84.0- 85.5	0.27		3.6	15.8	44.8	3.3	"	36.9
			(95.7-95.8) KAOLINITE / TALC LAYER	280.5- 285.5	85.5- 87.0	0.48	35° 32°	13.0	7.5	45.8	1.6	"	34.4
				285.5- 290.4	87.0- 88.5	0.44	35°	4.1	10.6	38.8	2.2	"	36.4
				290.4- 295.3	88.5- 90.0	0.62	55°	19.2	10.7	9.2	2.2	"	28.0
				295.3- 300.2	90.0- 91.5	0.54	65°	10.4	16.8	32.4	3.5	"	32.7
				300.2- 305.1	91.5- 93.0	0.11		1.9	17.3	49.3	3.6	"	37.6
				305.1- 310.1	93.0- 94.5	0.81	25°	17.9	11.4	30.6	2.4	"	31.1
				310.1- 315.0	94.5- 96.0	0.82	55°	10.5	16.0	39.3	3.4	"	33.9
				315.0- 319.9	96.0- 97.5	0.94	75°	21.4	31.3	35.3	6.5	"	28.6

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-5
 DEPTH : 355' (108² m)

PAGE 1
 NQ + BQ

COLLAR ELEV.: 1124.0
 LATITUDE : 1585E
 DEPARTURE : 700N

BEARING: 200°
 DIP : -60°
 DEF LN = -68°

DATE: AUG. 7, 86
 LOGGED BY: G. RODGERS
 % CORE RECOVERY: 88%

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	R ₂ O ₃	Core Angle	GYPSUM	INCL	SO ₃	H ₂ O	NaCl	Ca
100	0-1	5		9.8 -	3.0-4.5								
33	8-10	2	0-3° OVERBURDEN	14.8		N/S							
55	10-15	5		14.8-	4.5-6.0	N/S							
85	15-20	5	3°-15' AMPHIBOLITE (OXIDIZED)	19.7									
85	20-25	5		19.7-	6.0-7.5	N/S							
81	25-30	5	WEATHERED (V. SOFT), HORNBLUNDE - BIOTITE	24.6									
67	30-35	5		24.6-	7.5-9.0	N/S							
100	35-40	5	KAOLINITE - CHLORITOID	29.5									
100	40-45	5		29.5-	9.0-10.5	N/S							
90	45-50	5	15'-26' LIMESTONE BRECCIA;	34.5									
95	50-55	5		34.5-	10.5-12.0	N/S							
75	55-59.5	4.5	ANGULAR FRAGMENTS OF GY. LIMESTONE	39.4									
98	59.5-64.5	5	IN A LIMONITIC/CLAY MATRIX. SERICITE/	39.47		N/S							
95	64.5-70	5.5	SERICITE ALTERATION THROUGHOUT. FRACTURE	44.3									
100	70-75	5	? SOFT THROUGHOUT.	44.3-	13.5-								
80	75-80	5		49.2	15.0	N/S							
30	80-85	5		49.2-	15.0-	N/S							
19	85-90	5	26'-32.3 GYPSUM (MASSIVE; WHITE	54.1	16.5								
50	90-92	2	(OPAQUE)	54.1-	16.5-	N/S							
50	92-93	1	(28.7-28.8) FAULT	59.1	18.0								
100	93-94	1		59.1-	18.0-	N/S							
75	94-96	2	30.4 MnO, CaCO ₃ & Fe ₂ O ₃	64.0	19.5								
43	96-100	4		64.0-	19.5-	N/S							
75	100-105	5		68.9	21.0								
99	105-107	2		68.9-	21.0-	N/S							
86	107-110	3		73.8	22.5								
92	110-115	5		73.8-	22.5-	N/S							
99	115-125	10	← REDUCED TO BQ @ 110' (PUNCTURED NW CASING)	78.7	24.0								
80	125-134	9		78.7-	24.0-	N/S							
100	134-144.5	10.5		83.7	25.5								
100	144.5-155	10.5		83.7-	25.5-	N/S							
90	155-165	10	31.6-34.6 AMPHIBOLITE (w CHL. MARGINS	88.6	27.0								
100	165-175	10	TOP & BOTTOM); R ₁ = 3% THROUGHOUT	88.6-	27.0-	0.67		68.8	5.3	33.7	14.4	40.03	31.3
95	175-185	10		93.5	28.5								
180	185-195	10		93.5-	28.5-		65.1	82.7	5.4	40.6	17.3	"	31.2
80	195-196.5	1.5		98.4	30.0								
100	196.5-205	8.5		98.4-	30.0-			70.2	6.3	34.8	14.7	"	30.6
100	205-215	10		103.4	31.5								
100	215-225	10		103.4-	31.5-33.0		45.1	58.8	16.2	29.7	12.3	"	26.6
95	225-235	10		108.3	33.0								
				113.2	34.5			64.5	11.5	32.0	13.5	"	30.1

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-5 PAGE 2
 DEPTH :

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	% R ₂ O ₃	Core Angle	% GYPSUM	% H ₂ SO ₄	% SO ₃	% H ₂ O	% NaCl	% CaO																																																																																																																																																																																																																																																																																																																																																																																																		
95	235-237	2	34.6-105' GYPSUM / ANHYDRITE (occ.)	113.2-	34.5-	1.06	67°	64.5	11.5	32.0	13.5	<0.03	30.1																																																																																																																																																																																																																																																																																																																																																																																																		
95	237-245	8		118.2	36.0									100	245-255	10	TUFFACEOUS LAYERS (8% CO ₂ RICH LAYERS TO 100' THICK) TR. Py	118.2-	36.0-	0.65	62°	86°	5.3	42.2	18.0	"	30.0	98	265-265	10	123.0	37.5	95	265-275	10	(70.5-73°) AMPHIBOLITE (CALITE)	123.0-	37.5-	0.23		87.4	2.2	42.9	18.3	"	32.4	95	275-285	10	128.0	39.0	100	285-295	10	(Py 22)	128.0-	39.0-	0.15		87.9	1.5	43.2	18.4	"	32.4	100	295-305	10	132.0	40.5	99	305-315	10	(77.5 → CRYSTALLINE ANHYDRITE	132.9-	40.5-	0.23	60°	84.6	6.3	41.6	17.7	"	30.4	98	315-325	10	137.8	42.0	100	325-335	10	HARDER / GREYER / SPOT ANALYSIS → ANHYDRITE	137.8-	42.0-	0.52	60°	84.1	5.9	43.2	17.6	"	31.1	98	335-345	10	142.7	43.5	100	345-355	10		142.7-	43.5-	0.47		77.4	10.2	38.6	16.2	"	28.4					147.6	45.0		LOH			147.6-	45.0-	0.18	60°	83.1	7.0	43.9	17.4	"	30.9					152.6	46.5					152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4					157.5	48.0					157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9
100	245-255	10	TUFFACEOUS LAYERS (8% CO ₂ RICH LAYERS TO 100' THICK) TR. Py	118.2-	36.0-	0.65	62°	86°	5.3	42.2	18.0	"	30.0																																																																																																																																																																																																																																																																																																																																																																																																		
98	265-265	10		123.0	37.5									95	265-275	10	(70.5-73°) AMPHIBOLITE (CALITE)	123.0-	37.5-	0.23		87.4	2.2	42.9	18.3	"	32.4	95	275-285	10	128.0	39.0	100	285-295	10	(Py 22)	128.0-	39.0-	0.15		87.9	1.5	43.2	18.4	"	32.4	100	295-305	10	132.0	40.5	99	305-315	10	(77.5 → CRYSTALLINE ANHYDRITE	132.9-	40.5-	0.23	60°	84.6	6.3	41.6	17.7	"	30.4	98	315-325	10	137.8	42.0	100	325-335	10	HARDER / GREYER / SPOT ANALYSIS → ANHYDRITE	137.8-	42.0-	0.52	60°	84.1	5.9	43.2	17.6	"	31.1	98	335-345	10	142.7	43.5	100	345-355	10		142.7-	43.5-	0.47		77.4	10.2	38.6	16.2	"	28.4					147.6	45.0		LOH			147.6-	45.0-	0.18	60°	83.1	7.0	43.9	17.4	"	30.9					152.6	46.5					152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4					157.5	48.0					157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0										
95	265-275	10	(70.5-73°) AMPHIBOLITE (CALITE)	123.0-	37.5-	0.23		87.4	2.2	42.9	18.3	"	32.4																																																																																																																																																																																																																																																																																																																																																																																																		
95	275-285	10		128.0	39.0									100	285-295	10	(Py 22)	128.0-	39.0-	0.15		87.9	1.5	43.2	18.4	"	32.4	100	295-305	10	132.0	40.5	99	305-315	10	(77.5 → CRYSTALLINE ANHYDRITE	132.9-	40.5-	0.23	60°	84.6	6.3	41.6	17.7	"	30.4	98	315-325	10	137.8	42.0	100	325-335	10	HARDER / GREYER / SPOT ANALYSIS → ANHYDRITE	137.8-	42.0-	0.52	60°	84.1	5.9	43.2	17.6	"	31.1	98	335-345	10	142.7	43.5	100	345-355	10		142.7-	43.5-	0.47		77.4	10.2	38.6	16.2	"	28.4					147.6	45.0		LOH			147.6-	45.0-	0.18	60°	83.1	7.0	43.9	17.4	"	30.9					152.6	46.5					152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4					157.5	48.0					157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																													
100	285-295	10	(Py 22)	128.0-	39.0-	0.15		87.9	1.5	43.2	18.4	"	32.4																																																																																																																																																																																																																																																																																																																																																																																																		
100	295-305	10		132.0	40.5									99	305-315	10	(77.5 → CRYSTALLINE ANHYDRITE	132.9-	40.5-	0.23	60°	84.6	6.3	41.6	17.7	"	30.4	98	315-325	10	137.8	42.0	100	325-335	10	HARDER / GREYER / SPOT ANALYSIS → ANHYDRITE	137.8-	42.0-	0.52	60°	84.1	5.9	43.2	17.6	"	31.1	98	335-345	10	142.7	43.5	100	345-355	10		142.7-	43.5-	0.47		77.4	10.2	38.6	16.2	"	28.4					147.6	45.0		LOH			147.6-	45.0-	0.18	60°	83.1	7.0	43.9	17.4	"	30.9					152.6	46.5					152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4					157.5	48.0					157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																
99	305-315	10	(77.5 → CRYSTALLINE ANHYDRITE	132.9-	40.5-	0.23	60°	84.6	6.3	41.6	17.7	"	30.4																																																																																																																																																																																																																																																																																																																																																																																																		
98	315-325	10		137.8	42.0									100	325-335	10	HARDER / GREYER / SPOT ANALYSIS → ANHYDRITE	137.8-	42.0-	0.52	60°	84.1	5.9	43.2	17.6	"	31.1	98	335-345	10	142.7	43.5	100	345-355	10		142.7-	43.5-	0.47		77.4	10.2	38.6	16.2	"	28.4					147.6	45.0		LOH			147.6-	45.0-	0.18	60°	83.1	7.0	43.9	17.4	"	30.9					152.6	46.5					152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4					157.5	48.0					157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																			
100	325-335	10	HARDER / GREYER / SPOT ANALYSIS → ANHYDRITE	137.8-	42.0-	0.52	60°	84.1	5.9	43.2	17.6	"	31.1																																																																																																																																																																																																																																																																																																																																																																																																		
98	335-345	10		142.7	43.5									100	345-355	10		142.7-	43.5-	0.47		77.4	10.2	38.6	16.2	"	28.4					147.6	45.0		LOH			147.6-	45.0-	0.18	60°	83.1	7.0	43.9	17.4	"	30.9					152.6	46.5					152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4					157.5	48.0					157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																						
100	345-355	10		142.7-	43.5-	0.47		77.4	10.2	38.6	16.2	"	28.4																																																																																																																																																																																																																																																																																																																																																																																																		
				147.6	45.0										LOH			147.6-	45.0-	0.18	60°	83.1	7.0	43.9	17.4	"	30.9					152.6	46.5					152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4					157.5	48.0					157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																										
	LOH			147.6-	45.0-	0.18	60°	83.1	7.0	43.9	17.4	"	30.9																																																																																																																																																																																																																																																																																																																																																																																																		
				152.6	46.5													152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4					157.5	48.0					157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																														
				152.6-	46.5-	0.40		87.0	4.1	43.4	18.2	"	31.4																																																																																																																																																																																																																																																																																																																																																																																																		
				157.5	48.0													157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3					162.4	49.5					162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																																																		
				157.5-	48.0-	0.31	50°	79.3	4.3	39.5	16.6	"	31.3																																																																																																																																																																																																																																																																																																																																																																																																		
				162.4	49.5													162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1					167.3	51.0					167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																																																																						
				162.4-	49.5-	0.09	40°	76.5	1.9	39.1	16.0	"	33.1																																																																																																																																																																																																																																																																																																																																																																																																		
				167.3	51.0													167.3-	51.0-	0.24	65°	75.5	8.5	41.8	15.8	"	30.1					172.3	52.5				SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																																																																																										
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				172.3	52.5												SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8					177.1	54.0					177.1-	54.0-	0.1	55°	66.9	2.0	39.8	14.0	"	32.7					182.1	55.5					182.1-	55.5-	0.1	65°	67.4	1.3	45.6	14.1	"	34.7					187.0	57.0					187.0-	57.0-	0.41		69.8	5.5	35.3	5.9	"	31.7					191.9	58.5					191.9-	58.5-	0.54		77.4	3.4	38.9	4.2	"	32.4					196.9	60.0					196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																																																																																																														
			SPOT ANALYSIS @ 185' = 90% GYPSUM	172.3-	52.5-	0.11		73.1	3.8	44.4	15.3	"	31.8																																																																																																																																																																																																																																																																																																																																																																																																		
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				196.9	60.0													196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9					201.8	61.5					201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																																																																																																																																																																																																																		
				196.9-	60.0-	0.24		48.3	5.1	33.0	4.8	"	32.9																																																																																																																																																																																																																																																																																																																																																																																																		
				201.8	61.5													201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3					208.7	63.0					208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																																																																																																																																																																																																																																						
				201.8-	61.5-	0.14	30°	40.2	3.6	40.3	1.3	"	35.3																																																																																																																																																																																																																																																																																																																																																																																																		
				208.7	63.0													208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4					211.6	64.5					211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																																																																																																																																																																																																																																																										
				208.7-	63.0-	1.04	45°	31.6	5.0	42.8	1.5	"	35.4																																																																																																																																																																																																																																																																																																																																																																																																		
				211.6	64.5													211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4					216.6	66.0																																																																																																																																																																																																																																																																																																																																																																														
				211.6-	64.5-	0.20	60°	27.5	3.7	44.9	2.1	"	36.4																																																																																																																																																																																																																																																																																																																																																																																																		
				216.6	66.0																																																																																																																																																																																																																																																																																																																																																																																																										

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-5
 DEPTH :
 PAGE 3

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	% Re. O ₂	Core Angle	% GYPSUM	% Im. Sph	% SO ₃	% H ₂ O	% NaCl	% CaO
			GYPSUM / ANHYDRITE CONT'D.	216.5- 221.5	667.05	0.18	65°	28.1	1.6	50.3	5.9	<0.03	37.1
				221.5- 226.4	679.50	0.12		19.9	1.8	53.1	4.7	"	37.9
				226.4- 231.3	690.05	0.43	50°	22.9	3.4	48.1	4.8	"	37.4
				231.3- 236.2	70.5- 72.0	7.3		6.3	68.0	5.5	1.3	"	9.1
				236.2- 241.2	73.05	2.8	65°	6.9	29.0	22.3	1.5	"	26.0
				241.2- 246.1	73.5- 75.0	1.2		10.2	10.1	38.1	2.1	<0.03	34.3
				246.1- 251.0	75.0- 76.5	1.9		9.5	4.4	39.6	2.0	"	36.3
				251.0- 255.9	76.5- 78.0	1.5	60°	3.4	3.96	37.1	0.7	"	34.9
				255.9- 260.8	78.0- 79.5		60°						
				260.8- 265.8	79.5- 81.0	0.5		2.0	4.0	50.6	0.4	"	38.1
				265.8- 270.1	81.0- 82.5								
				270.1- 275.6	82.5- 84.0	1.7		2.5	11.7	37.6	0.5	"	33.5
				275.6- 280.5	84.0- 85.5		40°						
				280.5- 285.5	85.5- 87.0	0.1	75°	2.5	0.7	54.5	0.5	"	40.1
				285.5- 290.4	87.0- 88.5		75°						
				290.4- 295.3	88.5- 90.0	1.7	50°	7.1	8.4	31.3	1.5	"	34.4
				295.3- 300.2	90.0- 91.5		50°						
				300.2- 305.1	91.5- 93.0	1.1	55°	9.4	15.4	26.8	2.0	"	31.3
				305.1- 310.1	93.0- 94.5		55°						
				310.1- 315.0	94.5- 96.0	1.1	75°	11.8	28.6	33.2	0.4	"	34.3
				315.0- 319.9	96.0- 97.5		75°						

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-6 PAGE 3
 DEPTH :

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC.	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	R ₁₀₀	Core Angle	% GYPSUM	% LIMESTONE	% SO ₃	% H ₂ O	% NaCl	% CaO
			ANHYDRITE CONT'D.	216.5- 221.5	66.05 67.5	0.1	60°	5.4	1.3	21.3	1.2	<0.03	33.9
				221.5- 226.4	67.5 69.5	0.2		6.4	6.0	49.4	1.4	"	37.7
				226.4- 231.3	69.05 70.5	0.2	55°	7.1	3.3	20.4	1.5	"	32.8
				231.3- 236.2	70.5- 72.0	0.3		4.4	6.1	39.4	0.9	"	35.9
				236.2- 241.2	72.0 73.05	0.2		3.5	3.5	46.4	0.7	"	37.7
				241.2- 246.1	73.05 75.5	0.1	65°	0.8	20.5	52.3	0.7	"	28.7
				246.1- 251.0	75.0- 76.5	0.2		1.7	12.9	53.1	0.4	"	35.5
				251.0- 255.9	76.5 78.5	0.3	50°	16.1	7.5	42.9	3.4	"	34.4
				255.9- 260.8	78.0- 79.5								
				260.8- 265.8	79.5- 81.0	0.3		7.8	4.3	44.1	1.6	"	37.4
				265.8- 270.1	81.0- 82.5		50°						
				270.1- 275.6	82.5 84.5	0.2		13.0	12.8	52.1	2.7	"	33.8
				275.6- 280.5	84.0- 85.5								
			(91°-92.5°) 7cm THICK AMPHIBOLITE	280.5- 285.5	85.5- 87.0	1.1	45°	3.7	16.9	33.1	0.8	"	31.1
			'DIKE' (X-CUTS BEDDING) (05°) OR 50° - CONTINUED	285.5- 290.4	87.05 88.5								
			ROUNDED BY 'BEDDING' (TO 1cm LONG), 1/2cm WIDE	290.4- 295.3	88.5- 90.0	4.7	50°	5.6	17.3	19.5	1.2	"	19.2
				295.3- 300.2	90.0- 91.5		AMPHIBOLITE						
				300.2- 305.1	91.5 93.5	2.0	45°	19.4	22.3	26.4	4.1	"	28.6
				305.1- 310.1	93.0- 94.5								
				310.1- 315.0	94.5- 96.0	0.8		16.9	11.5	36.4	3.5	"	30.0
				315.0- 319.9	96.0 97.5		60°						

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 866
 DEPTH: PAGE 5

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	% R ₂ O _x	Core Angle	% GYPSUM	% INSOL	% SO ₃	% H ₂ O	% NaCl	% CaO
			ANHYDRITE	427 428.2	129.0 130.5	} 0.4	60°) 0.9) 5.2) 30°) 0.2) <0.03) 34.7
				428 433.1	130.5 132.0								
			433 438.0	132.0 133.5	} 1.7	15°) 3.5) 20°) 40°) 0.7) ") ") 31.2
			438 442.9	133.5 135.0									
			442 447.9	135.0 136.5	} 1.3	50°) 3.1) 17.4) 19.5) 0.6) ") ") 31.4
			447 452.8	136.5 138.0									
			452 457.7	138.0 139.5	} 1.1	60°) 8.1) 14.2) 15.5) 1.7) 1') ") 30.2
			457 462.6	139.5 141.0									
			462 467.5	141.0 142.5									
				467 472.5	142.5 144.0								
				472 477.4	144.0 145.5								
				477 482.3	145.5 147.0								
				482 487.0	147.0 148.4								
				E.O.M									

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-7 PAGE 1
 DEPTH : 220' (67m) BQ

COLLAR ELEV.: 1151 ~
 LATITUDE : 1663E
 DEPARTURE : 640N

BEARING: 200°
 DIP : -60°
 DECLIN: -63°

DATE: AUG. 7, 1986
 LOGGED BY: G. PROGRESS
 % CORE RECOVERY: 62%

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	% Rec'y / LENGTH	Core Angle	GYPSUM	AN-HYDR	SO ₃	H ₂ O	NaCl	Ca
70	0-13	4	0-35 OVERBURDEN	9.8 - 14.8	3.0-4.5	N/S							
90	17-22	5	35-23? AMPHIBOLITE (BRECCIA) (ANGULAR)	14.8 - 19.7	4.5-6.0	N/S							
90	22-27	5											
100	27-31	4	LIMESTONE CASTS (47-10φ) MODY. FRACTURED (2B-3Z) AMPHIBOLITE	19.7 - 24.6	6.0-7.5	N/S							
85	31-34	3											
62	34-39	5	23? - 29 ⁹ LIMESTONE (GRAY D. CALCITE)	24.6 - 29.5	7.5-9.0	N/S							
85	39-44	5											
85	44-47	3	23? - 29 ⁹ LIMESTONE (GRAY D. CALCITE)	29.5 - 34.5	9.0-10.5	N/S	45°						
50	47-49	2											
45	49-57	8	2099-485 WEATHERED LIMESTONE BRECCIA	34.5 - 39.4	10.5-12.0	N/S							
50	57-60	3											
75	60-65	5	2099-485 WEATHERED LIMESTONE BRECCIA	39.4 - 44.3	2.0-13.5	N/S							
40	65-67	2											
65	67-69.5	2.5	LIMONITIC FAULT GOUGE (GRANULITE)	44.3 - 49.2	13.5-15.0	N/S							
55	69.5-73	3.5											
75	73-77	4	V. LIMBY; INTENSE FRACTURING.	49.2 - 54.1	15.0-16.5	N/S							
67	77-81	4											
48	81-86.5	5.5	485-538 GYPSUM	54.1 - 59.1	16.5-18.0	N/S							
60	86.5-91	4.5											
72	91-97	6	485-538 GYPSUM	59.1 - 64.0	18.0-19.5	N/S							
55	97-101	4											
45	101-107	6	53 ^B -67 LIMESTONE BRECCIA	64.0 - 68.9	19.5-21.0	N/S							
30	107-117	10											
82	117-126	9	53 ^B -67 LIMESTONE BRECCIA	68.9 - 73.8	21.0-22.5	N/S							
57	126-130	4											
20	130-137	7	+ LIMONITIC FAULT GOUGE (SAP.)	73.8 - 78.7	22.5-24.0	N/S							
30	137-147	10											
80	147-157	10	53 ^B -67 LIMESTONE BRECCIA	78.7 - 83.7	24.0-25.5	N/S							
40	157-163	6											
65	163-173	10	53 ^B -67 LIMESTONE BRECCIA	83.7 - 88.6	25.5-27.0	N/S							
93	173-177	4											
80	177-181	4	53 ^B -67 LIMESTONE BRECCIA	88.6 - 93.5	27.0-28.5	N/S							
55	181-187	6											
60	187-197	10	53 ^B -67 LIMESTONE BRECCIA	93.5 - 98.4	28.5-30.0	N/S							
50	197-207	10											
95	207-215	8	53 ^B -67 LIMESTONE BRECCIA	98.4 - 103.4	30.0-31.5	N/S							
45	215-220	5											
				103.4 - 108.3	31.5-33.0	N/S							
				108.3 - 113.2	33.0-34.5	N/S							

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-7 PAGE 2
 DEPTH :

COLLAR ELEV.:
 LATITUDE :
 DEPARTURE :

BEARING:
 DIP :

DATE:
 LOGGED BY:
 % CORE RECOVERY:

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	% R ₂ O ₃	Core Angle	% GYPSUM	% FeS ₂	% SO ₃	% H ₂ O	% NaCl	% CaO
				113.2- 118.2	34.5- 38.0	N/S							
				118.2- 123.0	36.0- 37.5	N/S							
				123.0- 128.0	37.5- 39.0	N/S							
				128.0- 132.0	39.0- 40.5	N/S							
				132.0- 137.8	40.5- 42.0	N/S							
				137.8- 142.7	42.0- 43.5	N/S							
				142.7- 147.6	43.5- 45.0	N/S							
				147.6- 152.6	45.0- 46.5	N/S							
				152.6- 157.5	46.5- 48.0	N/S							
				157.5- 162.4	48.0- 49.5	1.1		79.3	8.7	38.0	16.6	<0.03	30.3
			ONLY FOUR SAMPLES TAKEN	162.4- 167.3	49.5- 51.0	0.6		80.4	4.3	42.8	18.5	"	31.6
				167.3- 172.3	51.0- 52.5	0.7		85.5	4.7	41.5	17.9	"	31.4
				172.3- 177.1	52.5- 54.0	0.2		73.6	2.5	35.9	15.4	"	34.4
				177.1- 182.1	54.0- 55.5	N/S							
				182.1- 187.0	55.5- 57.0	N/S							
				187.0- 191.9	57.0- 58.5	N/S							
				191.9- 196.9	58.5- 60.0	N/S							
				196.9- 201.8	60.0- 61.5	N/S							
				201.8- 208.7	61.5- 63.0	N/S							
				208.7- 211.6	63.0- 64.5	N/S							
				211.6- 216.6	64.5- 66.0	N/S							

E.O.H.

Queenstake Resources Ltd.

DIAMOND DRILL CORE LOG

LOCATION: O'CONNOR RIVER, B.C.
 HOLE NO.: 86-B
 DEPTH: 204' (62.1 m)

PAGE 1
 COLLAR ELEV.: 1031
 LATITUDE: 1318E
 DEPARTURE: 783N

BEARING: 180°
 DIP: -60°
 DEFW: -64

DATE: Aug 9/86
 LOGGED BY: G. PADDERS
 % CORE RECOVERY: 55%

REC	FOOTAGE	LGTH	ROCK DESCRIPTION	Imp. SAMPLE	Metric SAMPLE	R ₁₀₀	Core Angle	GYPSUM	% SiO ₂	% SO ₃	% H ₂ O	% NaCl	% Ca
23 8	23-25 25-37	2 12	0-11.4 OVERBURDEN	9.8- 14.8	3.0-4.5	n/s							
10 27	37-47 47-55	10 8	11-11.5 AMPHIBOLITE (SAP)	14.8- 19.7	4.5-6.0	n/s							
82 82	55-61 62-67	7 5	(76-77) FAULT	19.7- 24.6	6.0-7.5	n/s							
83 58	67-77 77-80	10 3	11.5-14.0 LIMESTONE BRECCIA (HONEY FRACTURED)	24.6- 29.5	7.5-9.0	n/s							
83 83	80-82 83-87	3 4		29.5- 34.5	9.0-10.5	n/s							
95 90	87-97 97-205	10 105	14.0-40.5 GYPSUM (COLOR CHANGE @ 35°-37°)	34.5- 39.4	0.5-12.0	n/s							
95 82	98-104 104-107	5.5 3	OCC. TUFFS MATL.	39.4-44.3	2.0-13.5	n/s							
95 70	107-117 117-127	10 10	(29°-40°) GYPSUM	44.3- 49.2	13.5- 15.0	2.6		54°	13'	26'	11.3	<0.03	30°
15 7	127-137 137-147	10 10		49.2- 54.1	15.0- 16.5	0.6		84°	5'	40°	17.6	"	31°
40 80	147-150 150-183	3 3	40°-62° AMPHIBOLITE	54.1- 59.1	16.5- 18.0	0.3		80°	3'	38°	16.8	"	32°
25 10	153-157 157-167	4 10	(41° → FAULT)	59.1- 64.0	18.0- 19.5	0.5	40°	87°	6'	41°	18.3	"	31°
10 38	167-172 172-176	5 4		64.0- 68.9	19.5- 21.0	1.0		79°	10'	37'	16.6	"	29°
100 75	176-179 179-181	3 2		68.9- 73.8	21.0- 22.5	0.8	45°	84°	8'	39.8	17.7	"	29°
30 50	181-185 185-188	4 3		73.8- 78.7	22.5- 24.0	1.3	45°	79°	12'	37°	16.6	"	30°
85 85	188-193 193-198	5 5		78.7- 83.7	24.0- 25.5	1.3	40°	77°	10'	37°	16.3	"	29°
15 60	198-201 201-204	3 3		83.7- 88.6	25.5- 27.0	0.6		83°	7'	40°	17.4	"	30°
				88.6- 93.5	27.0- 28.5	0.6	45°	84°	8'	41°	17.6	"	30°
				93.5- 98.4	28.5- 30.0	0.7		70°	10'	40°	14.8	"	30°
				98.4- 103.4	30.0- 31.5	0.5		29°	9'	45°	6'	"	35°
				103.4- 108.3	31.5-33.0	0.3	45°	55°	8'	45°	11'	"	34°
				108.3- 113.2	33.0- 34.5	0.2	40°	88°	3'	43.8	18.6	"	33°

APPENDIX B

ASSAY RESULTS

RESULTS OF TESTING:

QUEENSTAKE RESOURCES - GYPSUM PROJECT

SAMPL #	CLIENT ID	%FREE H2O	%COMBINED H2O	SODIUM CHLORIDE NaCl	CALCIUM OXIDE CaO	SULPHUR TRIOXIDE SO3	SILICA AND INSOL	IRON AND ALUMINUM OXIDES R2O3	MAGNESIUM OXIDE MgO	PERCENT GYPSUM
1	1-1.5-3.0	<0.01	17.20	<0.03	31.00	37.90	4.38	0.29	1.64	82.18
2	1-3.0-4.5	<0.01	17.50	<0.03	30.90	38.60	4.88	0.32	0.99	83.62
3	1-4.5-6.0	<0.01	17.00	<0.03	29.60	36.80	8.06	0.58	0.96	81.23
4	1-6.0-7.5	<0.01	14.80	<0.03	31.70	32.10	1.30	0.09	4.88	70.71
5	1-7.5-9.0	<0.01	18.60	<0.03	31.30	40.60	2.08	0.09	1.20	88.87
6	1-9.0-10.5	<0.01	18.30	<0.03	31.90	40.80	1.76	0.10	1.27	87.44
7	1-10.5-12.0	<0.01	15.30	<0.03	31.30	33.10	6.54	0.38	1.82	73.10
8	1-12.0-13.5	0.02	0.95	0.03	19.50	0.62	50.90	2.48	4.38	4.54
9	1-13.5-15.0	<0.01	5.57	<0.03	29.50	12.50	8.10	0.84	11.40	26.61
10	1-15.0-16.5	<0.01	16.10	0.03	32.40	38.00	2.18	0.24	3.02	76.93
11	1-16.5-18.0	<0.01	14.90	<0.03	30.70	34.30	3.94	0.38	3.87	71.19
12	1-18.0-19.5	<0.01	18.20	0.03	30.90	41.40	4.34	0.60	1.06	86.96
13	1-19.5-21.0	<0.01	17.20	<0.03	30.90	37.40	5.40	0.85	1.39	82.18
14	1-21.0-22.5	<0.01	17.70	0.03	30.10	39.20	7.18	0.22	0.81	84.57
15	1-22.5-24.0	0.05	19.00	<0.03	32.00	41.20	1.82	0.22	0.85	90.78
16	1-24.0-25.5	0.01	19.10	<0.03	32.40	43.70	0.72	0.10	0.77	91.26
17	1-25.5-27.0	0.01	19.00	<0.03	32.50	42.30	0.82	0.07	0.80	90.78
18	1-27.0-28.5	0.01	15.10	<0.03	30.80	33.90	4.42	0.55	3.27	72.15
19	1-28.5-30.0	0.02	12.90	<0.03	31.00	28.70	4.34	0.37	5.54	61.64
20	1-30.0-31.5	0.02	16.00	<0.03	34.10	37.10	3.00	0.39	3.05	76.45
21	1-31.5-33.0	0.02	17.30	<0.03	30.10	38.50	8.42	0.88	0.87	82.66
22	1-33.0-34.5	<0.01	18.00	<0.03	32.20	41.90	2.10	0.33	1.02	86.00
23	1-34.5-36.0	0.01	19.10	<0.03	31.40	46.00	1.44	0.03	0.72	91.26
24	1-36.0-37.5	0.01	18.70	<0.03	32.30	46.50	1.62	0.04	0.40	89.35
25	1-37.5-39.0	0.01	14.90	<0.03	31.30	48.20	1.30	0.02	0.70	71.19
26	1-39.0-40.5	<0.01	15.40	<0.03	32.80	47.70	0.90	0.08	1.51	73.58
27	1-40.5-42.0	0.02	12.00	<0.03	30.70	29.20	3.00	0.38	8.09	57.34
28	1-42.0-43.5	0.03	7.83	<0.03	32.60	32.60	1.16	0.36	7.62	37.41
29	1-43.5-45.0	<0.01	11.60	<0.03	30.70	28.20	5.52	0.47	7.10	55.42
30	1-45.0-46.5	0.01	7.06	<0.03	35.90	51.60	2.22	0.08	1.03	33.73
31	1-46.5-48.0	0.05	8.37	<0.03	35.80	53.90	1.28	0.17	0.27	39.99
32	1-48.0-49.5	0.06	15.00	<0.03	34.00	49.20	2.06	0.14	0.27	71.67
33	1-49.5-51.0	0.23	13.80	<0.03	30.80	34.20	1.84	0.45	4.03	65.94
34	1-51.0-52.5	0.07	11.90	<0.03	30.80	28.80	5.14	0.42	6.43	56.86
35	1-52.5-54.0	0.04	16.40	<0.03	26.20	39.80	3.88	0.36	1.85	78.36
36	1-54.0-55.5	0.04	11.70	<0.03	37.10	46.50	2.40	0.11	0.92	55.90
37	1-55.5-57.0	0.02	13.50	<0.03	21.90	40.10	4.68	0.55	2.54	64.50

RESULTS OF TESTING: (CON'T)

QUEENSTAKE RESOURCES - GYPSUM PROJECT

SMPL #	CLIENT ID	%FREE H2O	%COMBINED H2O	SODIUM CHLORIDE NaCl	CALCIUM OXIDE CaO	SULPHUR TRIOXIDE SO3	SILICA AND INSOL	IRON AND ALUMINUM OXIDES R2O3	MAGNESIUM OXIDE MgO	PERCENT GYPSUM
38	1-57.0-58.5	0.06	8.40	<0.03	35.20	47.40	1.94	0.14	1.88	40.14
39	1-58.5-60.0	0.08	6.12	<0.03	27.50	45.60	1.28	0.21	3.15	29.24
40	1-60.0-61.5	0.31	8.62	<0.03	31.70	32.70	23.80	1.63	1.87	41.19
41	1-72.0-73.5	0.14	9.06	<0.03	13.40	22.10	11.90	1.43	5.70	43.29
42	1-73.5-75.0	0.03	2.47	<0.03	35.20	5.82	13.30	2.02	16.10	11.80
43	1-75.0-76.5	0.03	3.57	<0.03	35.50	40.90	5.52	1.11	5.30	17.06
44	1-76.5-78.0	0.04	3.75	<0.03	31.70	26.10	32.20	4.66	3.45	17.92
45	1-78.0-79.5	0.07	8.10	<0.03	23.30	29.30	29.90	3.65	2.62	38.70
46	1-79.5-81.0	0.11	4.65	<0.03	21.80	26.50	33.60	4.05	2.94	22.22
47	1-81.0-82.5	0.16	4.64	<0.03	27.20	24.70	21.40	2.33	5.41	22.17
48	1-82.5-84.0	0.24	6.00	<0.03	33.20	37.90	8.44	1.20	3.65	28.67
49	1-84.0-85.5	0.06	7.44	<0.03	28.00	23.20	15.20	1.60	6.17	35.55
50	1-85.5-87.0	0.05	0.90	<0.03	39.40	55.40	2.46	0.30	0.78	4.30
51	1-87.0-88.5	0.03	8.84	<0.03	31.00	30.00	9.80	0.62	4.82	42.24
52	1-88.5-90.0	0.06	3.62	<0.03	28.70	7.72	14.90	1.83	11.80	17.30
53	1-90.0-91.5	0.29	17.60	<0.03	30.80	41.20	4.72	0.66	1.18	84.09
54	1-91.5-93.0	0.13	9.51	<0.03	24.30	22.50	24.90	1.08	4.96	45.44
55	2-3.5-4.5	0.09	16.70	<0.03	31.80	38.00	2.76	0.35	2.72	79.79
56	2-4.5-6.0	0.05	19.40	<0.03	32.00	44.70	1.46	0.10	0.52	92.69
57	2-6.0-7.5	0.09	18.30	0.03	32.10	43.00	1.40	0.07	1.65	87.44
58	2-7.5-9.0	0.10	18.70	<0.03	31.60	44.20	1.70	0.27	1.03	89.35
59	2-9.0-10.5	0.09	13.40	<0.03	25.10	32.40	21.50	0.89	1.90	64.03
60	2-10.5-12.0	0.06	3.01	<0.03	22.80	6.85	32.80	2.24	8.79	14.38
61	2-12.0-13.5	0.12	5.57	<0.03	21.40	12.10	33.90	2.20	6.91	26.61
62	2-14.5-16.0	0.18	5.47	<0.03	20.40	11.80	36.90	2.88	5.34	26.14
63	2-15.0-16.5	1.83	0.77	<0.03	28.10	0.40	19.10	2.56	11.93	3.68
64	2-16.5-18.0	0.14	0.35	0.045	26.40	0.43	21.10	2.00	12.91	1.67
65	2-18.0-19.5	0.08	0.51	<0.03	27.10	0.54	21.90	2.02	11.37	2.44
66	2-19.5-21.0	<0.01	17.20	0.06	30.40	40.90	6.44	0.87	1.45	82.18
67	2-21.0-22.5	0.02	16.70	<0.03	27.90	39.40	10.40	1.38	1.34	79.79
68	2-22.5-24.0	0.99	3.35	<0.03	26.10	6.92	23.50	3.25	9.63	16.01
69	2-24.0-25.5	0.15	8.88	0.03	27.30	21.60	18.90	1.80	5.40	42.43
70	2-25.5-27.0	0.03	5.66	<0.03	28.10	13.50	15.40	2.67	10.34	27.04
71	2-27.0-28.5	<0.01	16.40	0.03	33.40	45.90	1.10	0.13	0.98	78.36
72	2-28.5-30.0	0.03	5.92	<0.03	25.80	13.50	21.10	3.56	8.11	28.29
73	2-30.0-31.5	0.01	18.50	0.03	29.80	45.40	2.24	0.14	0.36	88.39
74	2-31.5-33.0	0.01	11.30	0.03	30.20	27.20	6.84	0.52	5.58	53.99

RESULTS OF TESTING: (CON'T)

QUEENSTAKE RESOURCES - GYPSUM PROJECT

SMPL #	CLIENT ID	%FREE H2O	%COMBINED H2O	SODIUM CHLORIDE NaCl	CALCIUM OXIDE CaO	SULPHUR TRIOXIDE SO3	SILICA AND INSOL	IRON AND ALUMINUM OXIDES R2O3	MAGNESIUM OXIDE MgO	PERCENT GYPSUM
75	2-33.0-34.5	0.02	9.84	<0.03	28.90	22.90	10.30	0.79	6.59	47.02
76	2-34.5-36.0	0.01	9.55	<0.03	30.00	22.10	6.20	0.51	8.45	45.63
77	2-36.0-37.5	0.02	10.50	<0.03	28.90	41.70	2.74	0.26	2.81	50.17
78	2-37.5-39.0	0.03	8.66	0.045	30.10	50.10	0.28	0.03	1.19	41.38
79	2-39.0-40.5	0.03	10.10	<0.03	35.00	49.50	0.24	0.02	0.96	48.26
80	2-40.5-42.0	0.02	10.90	<0.03	29.30	30.10	8.36	0.60	5.35	52.08
81	2-42.0-43.5	0.01	15.20	0.03	29.60	35.80	4.36	0.97	3.78	72.63
82	2-43.5-45.0	0.03	15.20	<0.03	24.00	35.90	15.50	2.07	1.82	72.63
83	2-45.0-46.5	0.02	14.10	0.03	28.50	33.20	5.16	0.69	4.60	67.37
84	2-46.5-48.0	0.01	12.80	0.03	29.50	39.60	3.58	0.25	2.85	61.16
85	2-48.0-49.5	0.18	15.70	<0.03	30.90	45.90	0.44	0.04	1.03	75.01
86	2-49.5-51.0	0.49	18.20	<0.03	29.30	44.30	0.28	0.03	1.17	86.96
87	2-51.0-52.5	1.01	17.80	<0.03	32.60	45.00	1.36	0.03	1.08	85.05
88	2-52.5-54.0	0.07	9.32	<0.03	30.10	22.40	7.80	1.25	8.20	44.53
89	2-54.0-55.5	0.05	12.00	<0.03	25.20	28.60	22.70	2.82	2.99	57.34
90	2-55.5-57.0	0.02	12.30	<0.03	31.50	29.50	6.84	0.42	4.38	58.77
91	2-57.0-58.5	0.06	5.16	<0.03	27.20	13.00	13.90	1.15	9.78	24.65
92	2-58.5-60.0	1.34	16.50	<0.03	30.90	42.20	6.32	0.36	0.59	78.84
93	2-60.0-60.5	0.33	16.30	<0.03	28.20	40.00	13.00	0.78	0.58	77.88
94	2-1.5-63.0	0.08	16.00	<0.03	30.30	38.30	8.00	0.98	1.78	76.45
95	2-63.0-64.5	0.81	3.05	<0.03	14.90	4.50	53.70	4.17	4.68	14.57
96	2-64.5-66.0	3.74	1.16	<0.03	9.58	0.42	63.90	5.07	4.58	5.54
97	2-66.0-67.5	1.59	1.41	<0.03	13.50	0.43	60.00	5.52	5.27	6.74
98	2-67.5-69.0	0.22	0.95	<0.03	14.70	0.51	61.40	3.10	3.61	4.54
99	3-3.0-4.5	0.01	15.70	<0.03	30.10	37.40	8.76	0.36	1.85	75.01
100	3-4.5-6.0	0.01	19.50	<0.03	32.70	46.40	0.74	0.06	0.45	93.17
101	3-6.0-7.5	<0.01	18.10	<0.03	31.80	42.10	3.44	0.37	1.41	86.48
102	3-7.5-9.0	<0.01	18.40	<0.03	32.10	43.30	2.90	0.35	1.09	87.92
103	3-9.0-10.5	<0.01	16.80	<0.03	31.60	39.10	2.94	0.27	2.84	80.27
104	3-10.5-12.0	<0.01	13.10	<0.03	32.30	30.90	1.96	0.12	6.34	62.59
105	3-12.0-13.5	<0.01	16.20	0.045	31.50	38.30	3.66	0.27	2.70	77.40
106	3-13.5-15.0	<0.01	16.20	<0.03	32.40	38.40	1.38	0.09	3.30	77.40
107	3-15.0-16.5	0.02	12.60	<0.03	31.50	29.70	2.80	0.18	6.38	60.20
108	3-16.5-18.0	0.02	17.80	<0.03	31.60	42.20	3.96	0.26	0.83	85.05
109	3-18.0-19.5	0.02	9.01	0.03	30.70	21.40	5.48	0.42	9.34	43.05
110	3-19.5-21.0	0.02	9.81	<0.03	30.90	22.90	5.40	0.34	9.56	46.87
111	3-21.0-22.5	0.02	16.00	0.03	32.20	38.10	2.54	0.16	2.76	76.45

RESULTS OF TESTING: (CON'T)

QUEENSTAKE RESOURCES - GYPSUM PROJECT

SAMPL #	CLIENT ID	%FREE H2O	%COMBINED H2O	SODIUM CHLORIDE NaCl	CALCIUM OXIDE CaO	SULPHUR TRIOXIDE SO3	SILICA AND INSOL	IRON AND ALUMINUM OXIDES R2O3	MAGNESIUM OXIDE MgO	PERCENT GYPSUM
112	3-22.5-24.0	0.02	16.60	<0.03	32.30	39.40	2.28	0.27	2.41	79.31
113	3-24.0-25.5	0.01	16.30	<0.03	31.50	39.10	5.32	0.35	1.77	77.88
114	3-25.5-27.0	0.16	13.20	<0.03	31.20	31.80	2.70	0.13	5.73	63.07
115	3-27.0-28.5	0.01	17.80	<0.03	32.10	42.20	2.26	0.16	1.35	85.05
116	3-28.5-30.0	0.03	16.20	<0.03	30.60	38.20	6.12	0.40	1.92	77.40
117	3-30.0-31.5	0.02	18.40	<0.03	32.10	43.90	2.92	0.26	0.54	87.92
118	3-31.5-33.0	0.08	12.60	<0.03	25.10	30.40	24.20	0.88	1.11	60.20
119	3-40.5-42.0	0.03	16.00	<0.03	32.30	38.60	2.10	0.25	2.68	76.45
120	3-42.0-43.5	0.03	18.50	<0.03	32.70	44.70	0.80	0.07	0.95	88.39
121	3-43.5-45.0	0.05	18.50	<0.03	32.90	44.70	0.80	0.05	0.92	88.39
122	3-45.0-46.5	0.04	15.80	<0.03	32.00	38.00	1.66	0.16	3.29	75.49
123	3-46.5-48.0	0.07	12.50	<0.03	33.30	39.80	1.96	0.20	3.09	59.73
124	3-48.0-49.5	0.14	17.10	<0.03	32.50	41.10	0.90	0.05	1.23	81.70
125	3-49.5-51.0	0.26	16.70	<0.03	32.30	41.20	1.46	0.10	2.19	79.79
126	3-51.0-52.5	0.20	15.00	<0.03	31.80	36.30	2.54	0.21	3.49	71.67
127	3-52.5-54.0	0.02	15.00	<0.03	31.70	35.10	2.90	0.24	3.48	71.67
128	3-54.0-55.5	0.03	19.00	<0.03	32.20	44.30	1.60	0.16	0.68	90.78
129	3-55.5-57.0	0.02	17.70	<0.03	31.70	41.50	1.80	0.13	1.85	84.57
130	3-57.0-58.5	0.04	17.40	<0.03	31.70	40.80	2.32	0.27	1.92	83.14
131	3-58.5-60.0	0.04	16.00	<0.03	31.10	40.50	6.54	0.46	1.60	76.45
132	3-60.0-61.5	0.04	12.20	<0.03	34.70	46.00	1.70	0.12	1.58	58.29
133	3-61.5-63.0	0.04	15.10	<0.03	33.80	45.90	1.28	0.11	1.05	72.15
134	3-63.0-64.5	0.03	11.40	<0.03	32.20	34.20	5.22	0.44	3.89	54.47
135	3-64.5-66.0	0.04	10.50	<0.03	24.30	24.30	21.70	2.64	4.47	50.17
136	3-66.0-67.5	0.04	9.60	<0.03	17.70	22.30	36.40	3.88	2.75	45.87
137	3-67.5-69.0	0.03	7.52	<0.03	18.10	21.10	39.50	4.18	2.98	35.93
138	3-69.0-70.5	0.05	6.65	<0.03	33.80	36.60	6.32	0.86	3.87	31.77
139	3-70.5-72.0	0.02	5.49	<0.03	35.20	48.20	6.96	0.32	1.43	26.23
140	3-72.0-73.5	0.19	4.76	<0.03	32.20	29.50	10.60	0.97	5.05	22.74
141	3-73.5-75.0	0.02	9.11	<0.03	25.00	22.90	22.30	2.42	4.49	43.53
142	3-75.0-76.5	0.02	7.71	<0.03	20.70	25.10	33.30	3.33	2.61	36.84
143	3-76.5-78.0	0.05	3.22	<0.03	38.30	52.00	3.38	0.39	0.88	15.39
144	3-78.0-79.5	0.03	2.91	<0.03	30.40	38.10	21.10	2.53	2.38	13.90
145	3-79.5-81.0	<0.01	2.08	<0.03	31.00	39.20	20.10	1.42	2.39	9.94
146	3-81.0-82.5	0.03	3.82	<0.03	23.50	12.60	31.10	4.35	6.22	18.25
147	3-82.5-84.0	0.05	12.30	<0.03	30.10	32.20	11.40	4.85	6.51	58.77
148	3-84.0-85.5	0.07	3.30	<0.03	36.90	44.80	3.60	0.27	2.63	15.77

RESULTS OF TESTING: (CON'T)

QUEENSTAKE RESOURCES - GYPSUM PROJECT

SMPL #	CLIENT ID	%FREE H2O	%COMBINED H2O	SODIUM CHLORIDE NaCl	CALCIUM OXIDE CaO	SULPHUR TRIOXIDE SO3	SILICA AND INSOL	IRON AND	MAGNESIUM	PERCENT GYPSUM
								ALUMINUM OXIDES R2O3	OXIDE MgO	
149	3-85.5-87.0	0.09	1.57	<0.03	34.40	45.80	13.00	0.48	1.03	7.50
150	3-87.0-88.5	0.07	2.22	<0.03	36.40	38.80	4.12	0.44	4.14	10.61
151	3-88.5-90.0	0.09	2.24	<0.03	28.00	9.22	19.20	0.62	9.20	10.70
152	3-90.0-91.5	0.14	3.51	<0.03	32.70	32.40	10.40	0.54	5.59	16.77
153	3-91.5-93.0	<0.50	3.62	<0.03	37.60	49.30	1.94	0.11	2.08	17.30
154	3-93.0-94.5	0.77	2.39	<0.03	31.10	30.60	17.90	0.81	3.40	11.42
155	3-94.5-96.0	0.75	3.35	<0.03	33.90	39.30	10.50	0.82	3.05	16.01
156	3-96.0-97.5	0.44	6.54	<0.03	28.60	35.30	21.40	0.94	1.75	31.25
157	3-96.0-97.5	0.05	0.65	<0.03	31.70	42.80	22.00	0.33	0.52	3.11
158	3-99.0-100.	0.09	1.93	<0.03	27.00	35.40	31.30	0.59	0.81	9.22
159	3-100.5-102	0.07	4.33	<0.03	23.70	24.20	41.20	1.21	1.27	20.69
160	3-102.0-103	0.11	2.80	<0.03	22.90	26.20	40.60	1.61	1.46	13.38
161	3-103.5-105	0.12	1.87	<0.03	19.70	15.60	51.60	1.41	1.50	8.93
162	4-27.1-27.4	0.07	17.90	<0.03	30.10	42.20	6.72	0.95	0.97	85.53
163	7-48.0-49.5	0.19	16.60	<0.03	30.30	38.00	8.68	1.12	1.09	79.31
164	7-49.5-51.0	0.07	18.50	<0.03	31.60	42.80	4.30	0.55	0.57	88.39
165	7-51.0-52.5	0.05	17.90	<0.03	31.40	41.50	4.70	0.72	1.10	85.53
166	7-52.5-54.0	0.06	15.40	<0.03	34.40	35.90	2.52	0.22	2.28	73.58
167	5-27.0-28.5	0.07	14.40	<0.03	31.30	33.70	5.90	0.67	3.88	68.80
168	5-28.5-30.0	0.05	17.30	<0.03	31.20	40.60	5.42	0.63	1.48	82.66
169	5-30.0-31.5	0.03	14.70	<0.03	30.60	34.80	6.28	0.54	3.55	70.24
170	5-31.5-33.0	0.04	12.30	<0.03	26.60	29.70	16.20	2.88	3.92	58.77
171	5-34.5-36.0	0.09	13.50	<0.03	30.10	32.00	11.52	1.06	1.83	64.50
172	5-36.0-37.5	0.04	18.00	<0.03	30.80	42.20	5.28	0.65	0.74	86.00
173	5-37.5-39.0	0.04	18.30	<0.03	32.40	42.90	2.16	0.23	1.20	87.44
174	5-39.0-40.5	0.04	18.40	<0.03	32.40	43.20	1.52	0.15	1.24	87.92
175	5-40.5-42.0	0.03	17.70	<0.03	30.40	41.60	6.32	0.73	1.04	84.57
176	5-42.0-43.5	0.03	17.60	<0.03	31.10	43.20	5.90	0.52	0.52	84.09
177	5-43.5-45.0	0.04	16.20	0.03	28.40	38.60	10.20	0.47	2.36	77.40
178	5-45.0-46.5	0.03	17.40	<0.03	30.90	43.90	7.00	0.18	0.68	83.14
179	5-46.5-48.0	0.04	18.20	<0.03	31.40	43.40	4.08	0.40	0.67	86.96
180	5-48.0-49.5	0.05	16.60	<0.03	31.30	39.50	4.34	0.31	1.79	79.31
181	5-49.5-51.0	0.08	16.00	<0.03	33.10	39.10	1.88	0.09	1.96	76.45
182	5-51.0-52.5	0.10	15.80	<0.03	30.10	41.80	8.54	0.74	0.80	75.49
183	5-52.5-54.0	0.18	15.30	<0.03	31.80	44.40	3.84	0.11	1.60	73.10
184	5-54.0-55.5	0.15	14.00	<0.03	32.70	39.80	2.00	0.10	2.85	66.89
185	5-55.5-57.0	0.07	14.10	<0.03	34.70	45.60	1.30	0.10	1.14	67.37

RESULTS OF TESTING: (CON'T)

QUEENSTAKE RESOURCES - GYPSUM PROJECT

SMPL #	CLIENT ID	%FREE H2O	%COMBINED H2O	SODIUM CHLORIDE NaCl	CALCIUM OXIDE CaO	SULPHUR TRIOXIDE SO3	SILICA AND INSOL	IRON AND ALUMINUM OXIDES R2O3	MAGNESIUM OXIDE MgO	PERCENT GYPSUM
186	5-57.0-58.5	0.06	14.60	<0.03	31.70	35.30	5.50	0.41	2.80	69.76
187	5-58.5-60.0	0.08	16.20	<0.03	32.40	38.90	3.44	0.54	2.42	77.40
188	5-60.0-61.5	0.09	10.10	<0.03	32.90	33.00	5.06	0.24	4.38	48.26
189	5-61.5-63.0	0.09	8.42	<0.03	35.30	40.30	3.60	0.14	1.46	40.23
190	5-63.0-64.5	0.08	6.62	<0.03	35.40	42.80	5.02	1.04	3.01	31.63
191	5-64.5-66.0	0.08	5.75	<0.03	36.40	44.90	3.72	0.20	1.02	27.47
192	5-66.0-67.5	0.13	5.89	<0.03	37.10	50.30	1.62	0.18	1.02	28.14
193	5-67.5-69.0	0.12	4.16	<0.03	37.90	53.10	1.76	0.12	0.82	19.88
194	5-69.0-70.5	0.09	4.80	<0.03	37.40	48.10	3.36	0.43	1.64	22.93
195	5-70.5-72.0	0.05	1.31	<0.03	9.10	5.50	68.00	7.26	2.27	6.26
196	5-72.0-73.5	0.05	1.45	<0.03	26.00	22.30	29.00	2.79	5.63	6.93
197	5-72.0-73.5	0.05	2.14	<0.03	34.30	38.10	10.10	1.17	4.26	10.22
198	5-75.0-76.5	0.07	1.98	<0.03	36.30	39.60	4.44	1.94	4.68	9.46
199	5-76.5-79.5	0.06	0.71	<0.03	34.90	37.10	9.56	1.49	5.14	3.39
200	5-79.5-82.5	0.04	0.42	<0.03	38.10	50.60	3.98	0.46	1.89	2.01
201	5-82.5-85.5	0.05	0.53	<0.03	33.50	37.60	11.70	1.67	4.71	2.53
202	5-85.5-88.5	0.07	0.53	<0.03	40.10	54.50	0.74	0.11	1.34	2.53
203	5-88.5-91.5	0.08	1.48	<0.03	34.40	31.30	8.42	1.67	7.38	7.07
204	5-91.5-94.5	0.07	1.96	<0.03	31.20	26.80	15.40	1.13	7.33	9.36
205	5-94.5-97.5	0.04	0.38	<0.03	34.30	33.00	8.60	1.09	4.57	1.82
206	5-97.5-100.	0.05	0.69	<0.03	35.90	36.10	6.12	1.05	5.39	3.30
207	5-100.5-103	0.76	1.02	<0.03	34.00	40.20	10.50	1.69	3.70	4.87
208	5-103.5-108	0.06	7.71	<0.03	17.10	23.20	43.40	4.00	1.98	36.84
209	8-13.5-15.0	0.02	11.30	<0.03	30.00	26.10	13.10	2.57	6.10	53.99
210	8-15.0-16.5	0.02	17.60	<0.03	31.50	40.00	5.64	0.61	1.78	84.09
211	8-16.5-18.0	0.04	16.80	<0.03	32.50	38.40	3.34	0.26	2.39	80.27
212	8-18.0-19.5	0.04	18.30	<0.03	31.10	41.60	6.34	0.51	0.73	87.44
213	8-19.5-21.0	0.02	16.60	<0.03	29.50	37.10	10.60	1.02	0.99	79.31
214	8-21.0-22.5	0.02	17.70	<0.03	29.30	39.80	8.12	0.79	0.68	84.57
215	8-22.5-24.0	0.01	16.60	<0.03	30.70	37.60	12.30	1.25	1.17	79.31
216	8-24.0-25.5	0.04	16.30	<0.03	29.90	37.70	10.30	1.33	1.21	77.88
217	8-25.5-27.0	0.07	17.40	<0.03	30.80	40.20	7.34	0.57	0.54	83.14
218	8-27.0-28.5	0.04	17.60	<0.03	30.80	41.30	8.66	0.57	0.51	84.09
219	8-28.5-30.0	0.03	14.80	<0.03	30.90	40.30	10.90	0.67	0.58	70.71
220	8-30.0-31.5	0.02	6.10	0.03	35.10	45.90	9.62	0.47	0.30	29.15
221	8-31.5-33.0	0.03	11.70	<0.03	34.20	45.70	8.34	0.29	0.33	55.90
222	8-33.0-34.5	0.04	18.60	0.03	33.50	43.80	3.10	0.17	0.37	88.87

RESULTS OF TESTING (CON'T)

QUEENSTAKE RESOURCES - GYPSUM PROJECT

SMPL #	CLIENT ID	%FREE H2O	%COMBINED H2O	SODIUM CHLORIDE NaCl	CALCIUM OXIDE CaO	SULPHUR TRIOXIDE SO3	SILICA AND INSOL	IRON AND ALUMINUM OXIDES R2O3	MAGNESIUM OXIDE MgO	PERCENT GYPSUM
223	8-34.5-36.0	0.03	13.50	<0.03	26.10	31.50	22.60	1.10	1.09	64.50
224	8-36.0-37.5	0.03	15.60	<0.03	29.80	35.90	13.80	1.09	1.12	74.54
225	8-37.5-39.0	0.01	10.30	0.03	30.80	24.00	11.40	0.83	6.55	49.21
226	8-39.0-40.5	0.02	10.70	<0.03	29.90	24.90	13.00	0.78	6.19	51.12
227	6-4.5-6.0	0.14	17.70	<0.03	32.10	40.80	1.76	0.26	1.90	84.57
228	6-6.0-7.5	0.09	18.90	<0.03	31.10	43.50	3.58	0.54	0.84	90.30
229	6-7.5-9.0	0.21	14.60	<0.03	30.40	34.50	8.92	1.18	2.68	69.76
230	6-9.0-10.5	0.05	19.30	<0.03	32.00	44.40	1.92	0.15	0.55	92.22
231	6-10.5-12.0	0.05	19.60	<0.03	32.00	45.20	1.02	0.19	0.34	93.65
232	6-12.0-13.5	0.10	15.30	<0.03	34.50	35.90	0.96	0.08	2.40	73.10
233	6-13.5-15.0	0.10	18.50	<0.03	30.60	43.30	5.24	0.35	0.41	88.39
234	6-15.0-16.5	0.06	19.00	<0.03	32.20	45.10	0.74	0.04	0.95	90.78
235	6-16.5-18.0	0.05	18.60	<0.03	31.10	43.40	4.04	0.54	0.81	88.87
236	6-18.0-19.5	0.05	19.30	<0.03	32.50	42.70	1.14	0.16	1.69	92.22
237	6-19.5-21.0	0.04	19.80	<0.03	33.20	46.20	0.26	0.04	0.44	94.60
238	6-21.0-22.5	0.05	19.60	<0.03	32.70	46.50	0.32	0.02	0.12	93.65
239	6-22.5-24.0	ERR	1.60	<0.03	33.00	46.10	0.76	0.09	0.28	7.64
240	6-24.0-25.5	0.05	17.60	0.03	31.70	41.80	5.56	0.28	0.32	84.09
241	6-25.5-27.0	1.05	11.70	<0.03	23.60	29.30	27.10	1.41	0.64	55.90
242	6-27.0-28.5	0.36	16.50	<0.03	31.50	39.30	6.74	0.76	0.59	78.84
243	6-28.5-30.0	0.06	16.20	<0.03	31.20	43.80	6.00	0.97	0.62	77.40
244	6-30.0-31.5	0.03	16.60	<0.03	28.40	39.30	12.10	1.21	0.96	79.31
245	6-31.5-33.0	0.02	17.50	<0.03	29.80	41.50	8.72	1.02	0.77	83.62
246	6-33.0-34.5	0.05	18.50	0.03	31.60	44.50	4.06	0.55	0.53	88.39
247	6-34.5-36.0	0.04	17.20	<0.03	31.10	42.80	6.02	0.86	0.78	82.18
248	6-36.0-37.5	0.04	6.86	<0.03	31.20	44.00	13.60	1.74	1.05	32.78
249	6-37.5-39.0	0.04	17.10	<0.03	31.10	42.70	5.40	0.79	0.74	81.70
250	6-39.0-40.5	0.04	17.50	<0.03	32.70	43.40	2.60	0.39	0.53	83.62
251	6-40.5-42.0	0.03	17.90	0.03	33.80	46.60	0.28	0.04	0.12	85.53
252	6-42.0-43.5	0.03	15.10	<0.03	35.60	40.70	1.58	0.14	0.81	72.15
253	6-43.5-45.0	0.12	12.60	<0.03	30.40	42.70	10.90	1.23	1.06	60.20
254	6-45.0-46.5	0.03	4.99	<0.03	36.20	50.40	5.32	0.77	0.71	23.84
255	6-46.5-48.0	0.12	7.42	<0.03	18.30	21.50	41.50	1.93	0.70	35.45
256	6-54.0-55.5	0.03	8.76	<0.03	29.30	34.70	14.30	1.46	3.03	41.86
257	6-55.5-57.0	0.02	2.50	<0.03	35.90	43.60	5.94	0.61	3.31	11.95
258	6-57.0-58.5	0.01	1.28	<0.03	33.60	23.70	4.54	0.39	11.15	6.12
259	6-58.5-60.0	0.01	3.79	<0.03	37.40	46.80	1.84	1.92	3.21	18.11

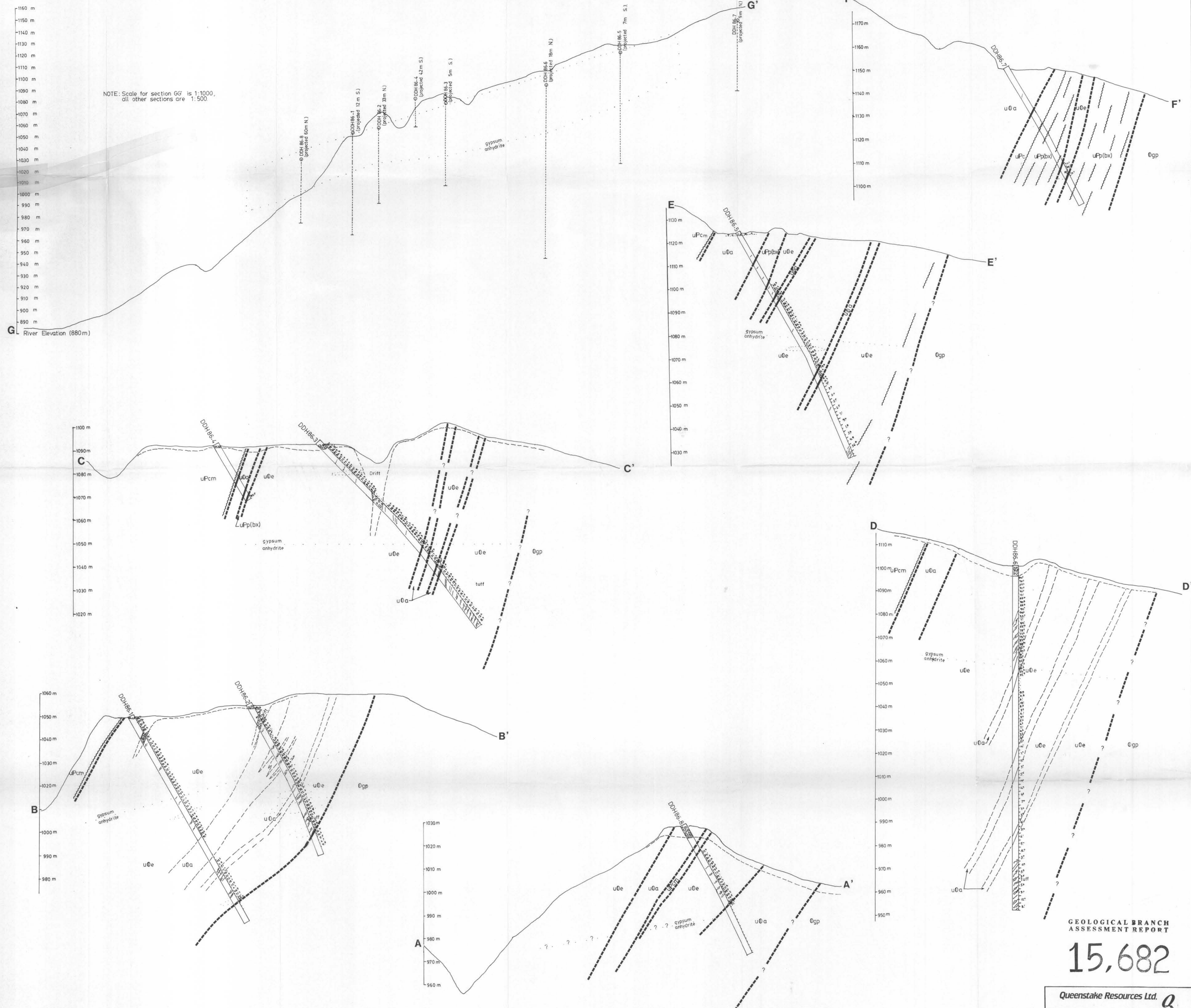
RESULTS OF TESTING: (CON'T)

QUEENSTAKE RESOURCES - GYPSUM PROJECT

SMPL #	CLIENT ID	%FREE H2O	%COMBINED H2O	SODIUM CHLORIDE NaCl	CALCIUM OXIDE CaO	SULPHUR TRIOXIDE SO3	SILICA AND INSOL	IRON AND ALUMINUM OXIDES R2O3	MAGNESIUM OXIDE MgO	PERCENT GYPSUM
260	6-60.0-61.5	0.04	1.74	<0.03	34.00	38.40	8.28	0.82	4.34	8.31
261	6-61.5-63.0	0.03	0.75	<0.03	38.80	52.10	1.90	0.13	1.71	3.58
262	6-63.0-64.5	<0.01	1.27	<0.03	39.10	52.60	2.40	0.14	1.15	6.07
263	6-64.5-66.0	<0.01	0.76	<0.03	39.30	51.70	1.56	0.08	1.86	3.63
264	6-66.0-67.5	<0.01	1.17	<0.03	33.90	21.30	1.30	0.09	12.43	5.59
265	6-67.5-69.0	<0.01	1.37	<0.03	37.70	49.60	6.04	0.24	1.01	6.55
266	6-69.0-70.5	<0.01	1.48	<0.03	32.80	20.40	3.28	0.20	11.70	7.07
267	6-70.5-72.0	<0.01	0.93	<0.03	35.90	39.40	6.10	0.31	4.26	4.44
268	6-72.0-73.5	<0.01	0.73	<0.03	37.70	46.40	3.52	0.22	2.75	3.49
269	6-73.5-75.0	<0.01	0.16	<0.03	28.20	52.30	20.50	0.10	1.65	0.76
270	6-75.0-76.5	<0.01	0.36	<0.03	35.50	53.10	12.90	0.18	1.05	1.72
271	6-76.5-79.5	<0.01	3.37	<0.03	34.90	42.90	7.52	0.34	3.02	16.10
272	6-79.5-82.5	<0.01	1.63	<0.03	37.40	46.10	3.92	0.31	3.12	7.79
273	6-82.5-85.5	<0.01	2.73	<0.03	33.90	52.10	13.80	0.17	0.88	13.04
274	6-85.5-88.5	<0.01	0.77	<0.03	31.10	33.10	16.90	1.12	4.44	3.68
275	6-88.5-91.5	<0.01	1.17	<0.03	19.30	19.50	43.30	4.71	3.21	5.59
276	6-91.5-94.5	0.01	4.05	<0.03	28.60	20.40	22.30	2.83	3.96	19.35
277	6-94.5-97.5	<0.01	3.54	<0.03	30.80	36.40	16.50	0.80	3.00	16.91
278	6-97.5-100.	<0.01	0.95	0.03	31.80	30.50	15.80	0.97	4.78	4.54
279	6-100.5-103	<0.01	1.55	<0.03	30.40	33.20	21.10	1.37	2.85	7.41
280	6-103.5-106	<0.01	1.60	0.03	30.50	31.60	10.60	1.07	5.27	7.64
281	6-106.5-109	<0.01	0.78	<0.03	30.40	12.50	11.10	0.97	12.68	3.73
282	6-109.5-112	<0.01	0.85	<0.03	31.40	45.60	20.70	0.69	2.07	4.06
283	6-112.5-115	<0.01	0.71	<0.03	28.60	34.50	25.50	5.67	2.63	3.39
284	6-115.5-118	0.05	1.27	<0.03	27.70	38.20	26.00	2.48	1.70	6.07
285	6-118.5-121	0.04	1.05	<0.03	30.60	40.70	20.70	2.28	1.88	5.02
286	6-121.5-124	0.04	3.49	<0.03	33.80	54.00	8.86	0.07	0.85	16.68
287	6-124.5-127	0.02	0.78	0.03	36.60	54.30	10.60	0.12	0.93	3.73
288	6-127.5-130	0.02	0.18	<0.03	34.70	30.00	5.20	0.42	7.77	0.86
289	6-130.5-133	0.01	1.10	<0.03	29.20	21.10	21.10	1.85	6.65	5.26
290	6-133.5-136	0.02	0.74	0.03	31.20	40.00	20.60	1.74	1.33	3.54
291	6-136.5-139	0.02	1.13	0.03	36.00	50.00	9.56	0.51	0.81	5.40
292	6-139.5-142	0.02	0.62	<0.03	31.40	19.50	17.40	1.28	7.27	2.96
293	6-142.5-145	0.04	2.52	<0.03	30.30	20.90	14.70	0.99	7.84	12.04
294	6-145.5-148	0.02	1.70	<0.03	30.20	15.50	14.20	1.05	10.30	8.12

APPENDIX C

FIGURES 4 AND 5



NOTE: Scale for section GG' is 1:1000, all other sections are 1:500.

GEOLOGICAL BRANCH ASSESSMENT REPORT

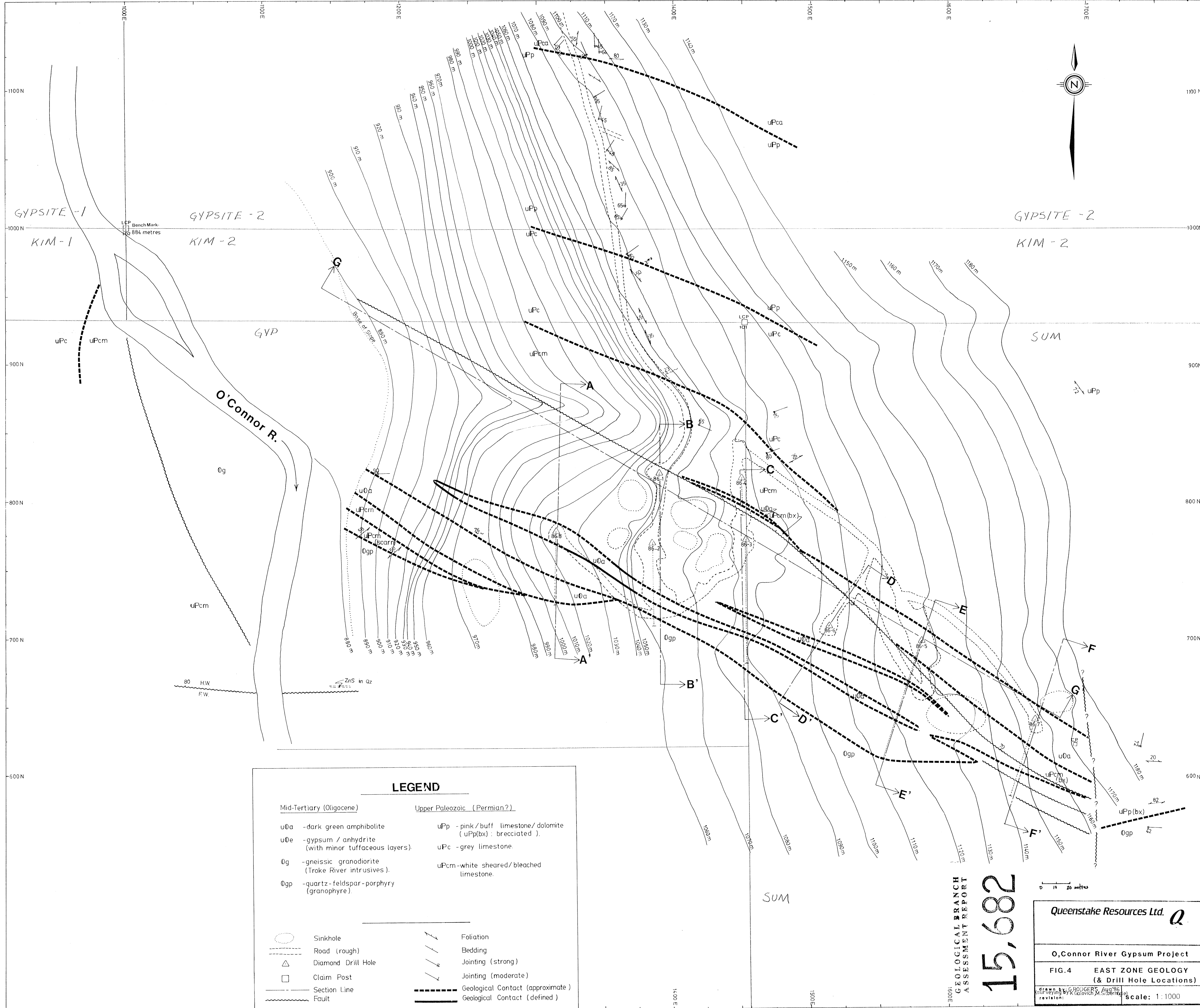
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Queenstake Resources Ltd. *Q*

O,Connor River Gypsum Project

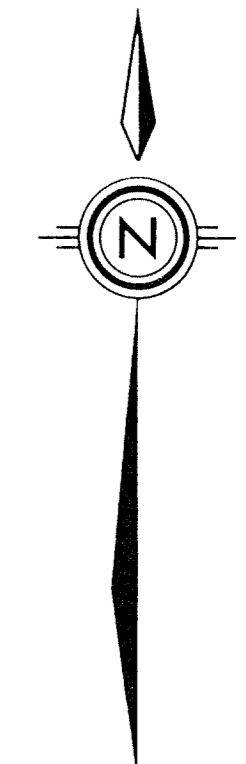
FIG.5 CROSS SECTIONS AA',BB',CC', DD',EE' & FF' LONGITUDINAL SECTION GG'

drawn by: G. RODGERS, Aug '86
revision:
scale: 1:500 (GG=1:1000)



LEGEND

- | | |
|---|--|
| <u>Mid-Tertiary (Oligocene)</u> | <u>Upper Paleozoic (Permian?)</u> |
| u0a -dark green amphibolite | uPp - pink / buff limestone / dolomite (uPp(bx) : brecciated). |
| u0e -gypsum / anhydrite (with minor tuffaceous layers). | uPc - grey limestone. |
| 0g -gneissic granodiorite (Troke River intrusives). | uPcm -white sheared/ bleached limestone. |
| 0gp -quartz -feldspar -porphyry (granophyre). | |
-
- | | |
|--------------------|----------------------------------|
| Sinkhole | Foliation |
| Road (rough) | Bedding |
| Diamond Drill Hole | Jointing (strong) |
| Claim Post | Jointing (moderate) |
| Section Line | Geological Contact (approximate) |
| Fault | Geological Contact (defined) |



0 10 20 metres

GEOLOGICAL BRANCH ASSESSMENT REPORT

15,682

Queenstake Resources Ltd.	
O'Connor River Gypsum Project	
FIG.4 EAST ZONE GEOLOGY (& Drill Hole Locations)	
drawn by: GROUJERS Aug 96 surveying by: K. Galovich M.S. 1986 revision:	Scale: 1:1000