ARIS SUMMARY SHEET

istrict Geologist, Kamloops

Off Confidential: 89.02.24

ASSESSMENT REPORT 17344

MINING DIVISION: Kamloops

-ROPERTY:

Semco Option

LOCATION:

CLAIM(S):

119 54 33 LAT 51 20 19 LONG

11 5691280 MTU 297366

NTS 082M05W

Bluff 1-2, Bluff 4

OPERATOR(S): Noranda Ex. UTHOR(S): _EPORT YEAR:

Shevchenko, G. 1988, 38 Pages

COMMODITIES

"EARCHED FOR: Lead, Zinc, Silver, Copper

EOLOGICAL

SUMMARY:

The claims are underlain by southwest dipping felsic to intermediate volcanic, volcaniclastic and sedimentary rocks belonging to the Devono-Mississippian Eagle Bay Formation. Sericite and chlorite alteration along with silica flooding are associated with sulphide mineralization. Sphalerite and galena occur mainly as disseminations and occasionally as massive pods associated with

pyrite and pyrrhotite.

WORK

DONE:

Drilling, Physical, Geochemical

4.7 km LINE

ROTD 1054.0 m 9 hole(s)

Map(s) - 9; Scale(s) - 1:5000, 1:250545 sample(s); CU, PB, ZN, AG, AU

082M 219 IINFILE:

LOC NO: 0502	RD:
ACTION:	
FILE NO:	

ASSESSMENT REPORT

ON THE

BLUFF 1, 2, 4 and PERCY 1 MINERAL CLAIMS

KAMLOOPS MINING DIVISION

FILLIED

Latitude 51°21'N Longitude 119°55'W

N.T.S. 82M/05W

	St	JB-REC	COR EIVED		
	F	iPR g	0-1	988	
M.	R. #	NCOL	IVER	\$ B.C	

Owner

: Victoria Resources Corporation

Box 9, 10th. Floor,

609 West Hastings Street, Vancouver. B.C. V6B 4W4

Operator :

Noranda Exploration Company, Limited (no personal liability)

P.O. Box 2380,

Vancouver, B.C. V6B 3T5

Author

G. Shevchenko, Project Geologist

Noranda Exploration Company, Limited (n.p.1.)

GEOLOGICAL BRANCH ASSESSMENT REPORT

17,344

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1.0 INTRODUCTION

This assessment report encompasses the reverse circulation drilling that was conducted on the Semco Claim Group (Bluff 1, 2, 4 and Percy 1 mineral claims) located in the Kamloops Mining Division.

The work was done from September 21, 1987 to October 8, 1987.

The main purpose of the programme was to test various broad soil geochemical anomalies.

1.1 Location and Access

The property is located 80 kilometres north-northeast of Kamloops, British Columbia. It lies between Birk Creek and Harper Creek and has centre co-ordinates of 51°21'N latitude, 119°55'W longitude.

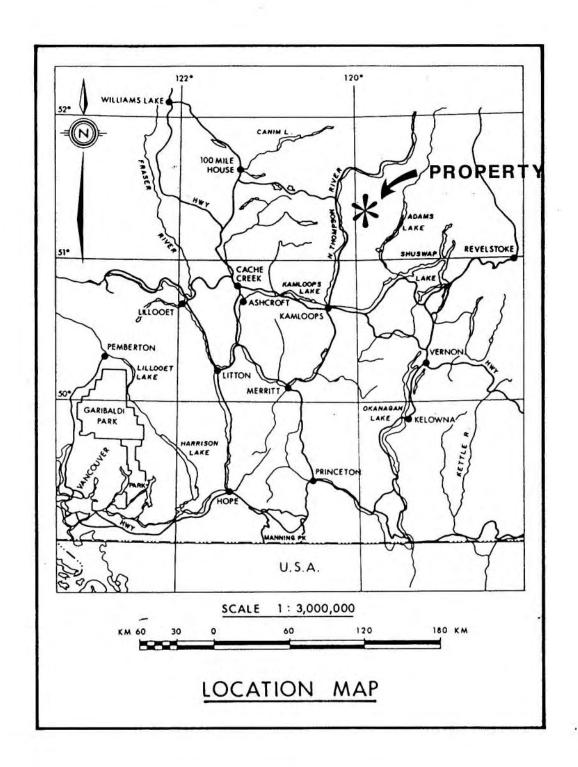
Road access to the property is excellent and it may be reached as follows: from Kamloops, north along Highway #5 to Barriere (63 km), then east along the paved East Barriere Lake Road to the North Barriere Lake turn off (16 km), then north along the unpaved North Barriere Lake Road for 9 kilometres to where the Mable Creek Logging Road takes off and provides the main access to the property.

1.2 Topography and Physiography

Relief on the property varies from 640 to 1550 metres above sea level. For the most part there are gentle to moderate southeast dipping topographic slopes with steep southwest slopes located in the deeply incised Birk Creek Valley at the west end of the property.

Vegetation consists of dense to open stands of douglas fir and spruce with occasional dense underbrush of devils club and alder.

There are numerous cut blocks on the property which improve access, and in one case has helped to uncover mineralization.



REVISED	SEMCO OPTION			
	PROPERTY LOCATION	ı		
	MAP			
PROJ No	SURVEY BY DATE DRAWN BY: SCALE	_		
DWG. No. 1	NORANDA EXPLORATION	1		

17.

1.3 Work History

"Prior to 1969, the area had been intermittently staked and prospected but had not undergone significant detailed investigations.

In 1969-70 Cambridge Mines bulldozed 600 m of trenches on the Percy claim exposing minor chalcopyrite in semi-massive and massive pyrrhotite and pyrite lenses in hornfelsed acid to intermediate volcanics. No record of sampling or assays are available.

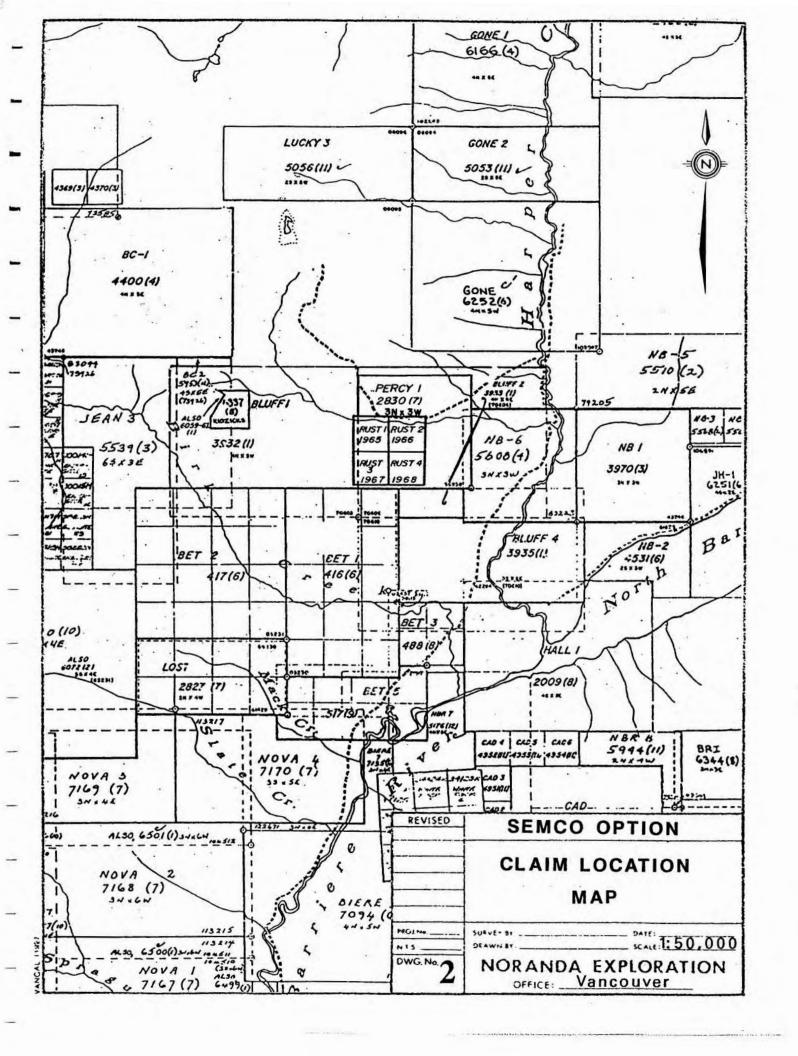
In 1971-72 geochem and geophysical surveys were supervised by J.R. Woodstock and Barringer Research respectively, on behalf of Ducanex Resources Limited. A north trending Cu-soil anomaly was found in the SE portion of the claim (max. 520 ppm Cu). A broad north trending low resistivity and high chargeability zone is coincident with the anomalous Cu trend.

In 1976 the Percy claim was held by Kennco Explorations as the Birk 1 claim. Kennco conducted a soil and rock geochem survey and resampled the 1969-70 trenches. A Cu-Zn soil anomaly correlated with known chalcopyrite-sphalerite mineralized meta-volcanics. A moderate Pb-Zn-Ag anomaly occurs southwest of the trenched area. The highest assay in resampling the trenches was 2.7% Cu over a 3 m width, with most samples assaying 0.3% Cu over 3 m.

In 1977, SEMCO acquired the ground now covering the Percy and Bluff 4 claims as the Ralph and Dark claims respectively. Minor exploration was done between 1977 and 1980. The Ralph claim was restaked as the Percy 1 claim in 1978 and again in 1980. The Dark claim was restaked as the BC-1 claim in 1979 which subsequently lapsed in 1981.

In 1980 J. Payne conducted a geological and geophysical programme on the Percy claim on behalf of SEMCO Ltd. Payne interpreted the geologic setting as analogous to a volcanogenic massive sulphide environment with stratabound base metal sulphides related to two expisodes of felsic volcanism. A MAG survey in the trenched area showed 3 small, intense dipole anomalies assumed to be related to increasing magnetite content."

In 1982, Preussag Canada Limited entered into a joint venture agreement with Semco Mining Corp. Preussag was the operator and carried out geological mapping, HLEM surveys and diamond drilling (6 holes for a total of 962.3 metres) over a period of two years.



In 1985, Noranda Exploration Company, Limited optioned the Bluff 1,2,4 and Percy I mineral claims from Semco Mining Corp. While working the property from 1985 to 1987 inclusive, Noranda conducted airborne and ground geophysical surveys, soil geochemistry, geological mapping, trenching, diamond drilling and reverse circulation drilling. The option was terminated in March 1988.

On June 13, 1985 Semco Mining Corporation transferred its interest in the property to Victoria Resource Corporation of Vancouver, B.C.

1.4 Claim Status

The Semco Option is comprised of four mineral claims which are tabled below:

Claim Name	Record No.	Units	Record D	ate	Record Year	Due
Bluff 1	3932	20	January	25	1982	1991
Bluff 2	3933	20	January	25	1982	1991
Bluff 4	3935	18	January	22	1982	1991
Percy 1	2830	9	July	21	1980	1991

The claims are 100% owned by:

Victoria Resources Corporation Box 9, 10th. Floor, 609 West Hastings Street, Vancouver, B.C. V6B 4W4

and were operated by:

Noranda Exploration Company, Limited, (no personal liability) Box 2380, Vancouver, B.C. V6B 3T5

1.5 Summary of Work Done

Nine reverse circulation drill holes for a total of 1054 metres were drilled on the property between September 21, 1987 and October 8, 1987.

1.6 Regional Geology

The property lies within the northwest/north-northwest trending Eagle Bay Formation which ranges in age from Early Cambrian to Late Mississippian.

The Eagle Bay Formation lies along the western margin of the Omineca Belt. It is bounded to the east by the high-grade Shuswap Metamorphic Complex and to the west by the clastic rocks of the Fennell Formation.

The Eagle Bay Formation is structurally complex and consists of parautochthonous volcanics and sediments that have been subjected to low grade metamorphism. Rapid facies changes occur both vertically and horizontally within the stratigraphic section.

"Four phases of mesoscopic structures have been reported in rocks of the Eagle Bay Formation. The earliest recognizable folds are generally tight, isoclinal mesoscopic structures with recumbent axial planes which are parallel to the schistosity and to the compositional layering of the various These structures usually have gentle to moderate plunges and trend anywhere from northwesterly to northeasterly. Although it is suspected that these folds may be related to larger nappe-like structures, none of these have yet been identified and only medium-scale structures a few hundred metres in maximum dimension, probably belonging to this generation, can be inferred by attempting to trace some local markers. A later phase of folds clearly warps the schistosity and has axes parallel to a pronounced and widespread crenulation lineation. These structures have been observed to range from a few centimetres to several scores of metres in maximum dimension and have generally upright axial planes parallel to a pronounced crenulation cleavage. Fold axes have gentle easterly and westerly plunges along Adams Lake and moderate northerly to northwesterly plunges elsewhere. Later, broad northerly to northeasterly trending warps, kinks, and faults occurred which were commonly followed by post-tectonic granitic dykes."2

Preto, V.A. (1979): Barriere Lakes - Adams Plateau Area (82L/13E; 82M/04,05W; 92P/08E), B.C. Ministry of Energy, Mines & Petroleum Resources, Geological Fieldwork, 1978, Paper 1979-1, pp 35, lines 25 to 39.

2.0 DRILLING

The services of Western Hydro-Air Drilling Ltd., Calgary, Alberta were contracted for the reverse circulation drill programme.

The main purpose of the drill programme was to test broad soil geochemical anomalies for stratiform type sulphide mineralization.

The following table summarizes the collar details for each of the holes drilled:

Hole #	Field Co-ordinates		Elevation (Metres)	Azimuth (True)	Inclination	Length (Metres)	
	Northing	S	Eastings	(Metres)	(Irue)		(Metres,
NRD-87-2	26710	1	31975	1145	0580	 -60°	120.4
NRD-87-3	27500	1	31280	1350	0580	-640	51.3
NRD-87-4	27700	1	31190	1425	0560	-65°	198.0
NRD-87-5	28300	1	31275	1485	0580	-60°	120.4
NRD-87-6	26637	1	31775	1125	0580	-60°	153.9
NRD-87-8	27503	Ì	31280	1350	0580	-640	132.6
NRD-87-9	28402	1	31407	1495	0600	-650	121.9
NRD-87-12	26340	1	31975	990	0580	-400	108.2
NRD-87-13	26445	i	31825	1050	0560	-500	47.2

2.1 Drilling Summary

NRD-87-02: This hole tested a broad zinc-in-soil anomaly that has values ranging from 1100 ppm to 2400 ppm.

The hole intersected an intercalated package of silica flooded muddy tuff and argillite. Disseminations of 1% to 5% pyrite and 1% pyrrhotite occur throughout the entire package of rock, along with occasional traces of fine grained sphalerite. Increased concentrations of pyrite are associated with sericite and talc alteration in the silica flooded muddy tuff.

The only significant anomalous section is located between the top of the hole and the 24.4 metre interval. Here, lead values range from 82 ppm to 1525 ppm and zinc values range from 192 ppm to 2918 ppm. These values explain the western third of the soil anomaly, however, the remaining two thirds remains unexplained.

NRD-87-03,08: Hole NRD-87-03 was forced to terminate at a depth of 51.3 metres due to the hammer bit being lost down the hole. Therefore, Hole NRD-87-08 was drilled adjacent to it in order to test the stratigraphy below 51.3 metres.

These holes tested a broad lead/zinc-in-soil anomaly with values ranging from 410 ppm to 480 ppm and 360 ppm to 490 ppm respectively.

The holes intersected a thick sequence of silica flooded muddy tuff with 5% to 10% chlorite alteration occurring in the upper 73 metres. The entire package is mineralized with fine grained disseminations of 1-5% pyrite and trace to 1% pyrrhotite. Trace to 1% fine grained sphalerite and galena occur between 27.4 and 77.7 metres downhole and are associated with the silica flooding. Within this mineralized zone there are local increases of sphalerite (up to 5%), galena (up to 3%), pyrite (up to 20%) and occasional chalcopyrite associated with areas of increased chlorite alteration and silica flooding. Significant silver (up to 16.9 ppm) and gold (up to 330 ppb) values are associated with the areas of increased mineralization. The lead/zinc values encountered within this mineralized section adequately explain the overlying soil geochemical anomaly.

NRD-87-04: This hole tested a broad lead/silver-in-soil geochemical anomaly that has values ranging from 190 ppm to 900 ppm and 2.2 ppm to 8.0 ppm respectively.

A thick package of silica flooded muddy tuff with local minor chlorite alteration was encountered in this hole. For the most part the rocks contain 3-5% fine grained disseminated pyrite with local increases of up to 10%. Trace amounts of fine grained sphalerite and galena are associated with the silica flooding between 48.8 and 193.5 metres downhole. Within this interval there are occasional increases in the concentration of sphalerite and galena of up to 3% and 1.5% respectively. These increases are associated with an increase in silica flooding and chlorite/sericite alteration. Silver values range up to 7.0 ppm, gold values range up to 136 ppb, lead values range up to 7068 ppm and zinc values range up to 13118 ppm.

The metal values encountered in these rocks adequately explain the overlying soil geochemical anomaly.

NRD-87-05: This hole tested a small lead/silver-in-soil geochemical anomaly that has values ranging from 210 ppm to 300 ppm and 2.4 ppm to 4.4 ppm respectively.

The hole intersected a package of grey phyllite with minor intercalations of muddy tuff. It is highly possible that the "so-called" grey phyllite is in reality a volcaniclastic.

The rocks contain 2 to 5% fine grained pyrite throughout. The pyrite concentration slowly decreases down the hole. From 39.6 metres to the end of the hole, fine grained sphalerite and galena are present in concentrations of trace to 2% and trace to 1% respectively.

For the above mentioned mineralized interval the following metal values were encountered; silver values range up to 7.8 ppm with increased values associated with increased sulphide content. Gold values range up to 190 ppb and are not necessarily associated with increased sulphide content (ie. from 19.8 to 24.4 metres gold values are weakly anomalous while base metal values remain subdued). The lead/zinc values range from 268 ppm to 11308 ppm and 393 ppm to 14132 ppm respectively.

The metal values that were intersected in the hole more than adequately explain the overlying soil anomaly.

NRD-87-06: This hole tested an area where a massive pyrite/sphalerite boulder was found as well as a broad zinc-in-soil geochemical anomaly with values ranging from 1100 ppm to 1900 ppm.

The hole encountered a package of muddy tuff with minor intercalations of dark grey phyllite. The upper half of the hole contains 5 to 10% chlorite alteration.

The entire package of rocks contain fine grained disseminations of pyrite (trace to 2%) along with occasional pyrrhotite. Occasional trace concentrations of sphalerite and galena occur in the muddy tuff. Gold and silver values in the hole are insignificant while the lead/zinc values locally increase to 1592 ppm and 2222 ppm respectively.

The origin of the massive sulphide boulder was not identified, and the soil geochemical anomaly is not entirely explained.

NRD-87-09: This hole tested a small lead/zinc/silver-in-soil geochemical anomaly with values ranging from 450 to 1400 ppm lead, 3360 to 5300 ppm zinc, and 2.6 to 3.8 ppm silver.

A package of muddy tuff with local silica flooding and chlorite alteration was encountered in this hole. Fine grained disseminations of pyrite (trace to 5%), the concentration of which decreases downhole, occurs throughout the entire package of rock. Trace to 1.5% sphalerite and trace to 2% galena which occur from the top of the hole to the 67.1 metre interval, and associated with the silica flooding. Silver values range up to 10.0 ppm, gold values are generally subdued with a high of 104 ppb, lead values range from 356 ppm to 9537 ppm and zinc values range from 354 ppm to 8613 ppm.

The metal values encountered adequately explain the overlying soil geochemical anomaly.

NRD-87-12: This hole tested a broad zinc-in-soil geochemical anomaly that has values ranging from 1200 ppm to 1900 ppm.

This hole intersected a thick sequence of dark grey to black phyllite with very minor intercalations of muddy tuff. From 24.4 metres to 82.3 metres the phyllite is siliceous and contains 5 to 15% silica flooding. From 82.3 metres to the end of the hole the phyllite is only silica flooded (5 to 10%). The entire sequence of rocks contains fine grained disseminations of pyrrhotite (1-2%). Fine grained pyrite (trace to 1%) only is present in the upper 40 metres of the hole.

All of the analytical values (Cu, Pb, Zn, Ag, Au) are low and thus do not adequately explain the overlying soil anomaly.

NRD-87-13: This hole tested a narrow north-south trending zinc-in-soil anomaly that has values ranging from 1000 to 2000 ppm.

The hole encountered a package of silica flooded muddy tuff with minor intercalations of dark grey phyllite. Fine grained disseminations of pyrite (1-5%) occur throughout the entire hole. Trace amounts of galena and trace to 1% sphalerite occur at the top of the hole and continue to the 27.4 metre interval. The sulphides are associated with silica flooding. The highest silver value of 11.2 ppm over 1.5 metres is associated with an increase in sulphides, gold values remain insignificant, lead values range from 520 ppm to 3276 ppm and zinc values range from 472 ppm to 9969 ppm.

3.0 CONCLUSIONS AND RECOMMENDATIONS

The various soil geochemical anomalies that were tested with the nine reverse circulation drill holes were adequately explained in all cases except for ones tested with Holes NRD-87-06 and 12.

Mineralization is associated with the silica flooding in muddy tuffs and is sub-economic in all cases.

The mineralization, for the most part, occurs over great thicknesses of muddy tuff.

There is a greater abundance of sedimentary rocks in the southern holes as opposed to the northern ones.

The thick overburden that was encountered in all of the holes along with the sloping topography are a major influence on ground water movement. As a result many of the soil geochemical anomalies have probably migrated a fair distance away from their source.

It is recommended that metal ratio and alteration studies be conducted on the various holes in order to define vectors where mineralization should increase.

4.0 BIBLIOGRAPHY

Daley, F. 1983 Geological, Geophysical and Drilling Report on the Bluff 1 Claim Group.

Preto, V.A. 1979

Barriere Lakes - Adams Plateau Area
(82L/13E; 82M/04,05W; 92P/01E,08E), B.C.
Ministry of Energy, Mines & Petroleum
Resources, Geological Fieldwork, 1978,
Paper 1979-1.

APPENDIX I

DRILL LOGS

LITHOLOGY LEGEND

FOR DRILL LOGS

- 3.2 Brownish-Grey Muddy Tuff: generally equigranular, phyllite, aphanitic to very fine grained may contain talc and sericite brownish colour due to biotite. May contain occasional quartz eyes.
- 3.1 Grey Muddy Tuff: light to medium grey, generally equigranular, aphanitic to very fine grained, may contain talc, sericite and occasional quartz eyes.
- 2.6 <u>Carbonate:</u> massive, medium grey, equigranular aphanitic, moderately to highly calcareous.
- 2.4 Grey Phyllite: light to medium grey, equigranular, aphanitic, well developed phyllitic schistosity.
- 2.3 <u>Black Phyllite:</u> dark grey to black, equigranular, aphanitic, well developed phyllitic schistosity.

Qtz V	Quartz vein
cb V	Carbonate vein
A	Sericite alteration (>5%)
В	Chlorite alteration (>5%)
D	Silica flooding (>5%) - occurs in small pods and lenses.
E	Siliceous
F	Spotted - up to 2 mm in diameter due to aggregates of very fine grained biotite.
1	Calcareous
J	Mylonitic

PROJECT : SEMCO PROJECT NO. : 137 HOLE NO.: NRD-87-2

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7 - 6

DRILL TYPE : Reverse Circulation

DATE COLLARED : SEPT 24.1987 NTS : 082M05 DATE COMPLETED : SEPT 25, 1987

	Deoth	Inclination	Bearing	Eastings	Northinas	E	levation			Page 1 of
	Death	Inclination	pear Ing	castinus						rage 1 or
	0.0	-60.0 -60.0	58.0 58.0	31975.00 32026.05	26710.00 26741.90		1145.00 1040.73			
-	FROM	то	LITHOLOGY	SAMPLE	WIDTH	Cu pom	Pb ppm	Zn oom	Ag pom	Au pob
	3.1	4.6	OVEN	15205	1.5	207	1219	1552	1.2	1
	4.6	6. 1	n	15206	1.5	196	1117	1406	1.1	6
	6.1	7.6		15207	1.5	179	305	861	0.8	2
	7.6	9. 1	2.4 D	15208	1.5	109	488	1001	1.1	1
	9.1	10.7	3.2 B/2.4 D	15209	1.6	51	114	261	0.5	
	10.7	12.2	2.6/3.2	15210	1.5	82	719	1611	1.7	1
	12.2	15.2	2.6/2.3	15211/12	3.0	87	200	620	0.8	1
	15.2	16.8	2.3 I	15213	1.6	56	263	556	0.8	
	16.8	18.3	3.1 D/2.3 I	15214	1.5	43	82	192	0.5	1
	18.3	19.8	3.1 D/Qtz v/2.3	15215	1.5	58	116	219	0.5	1
	19.8	21.3	3.1 DB/2.3/Qtz v	15216	1.5	151	1525	2918	1.5	
	21.3	22.9	3.1 DB	15217	1.6	184	1209	1338	1.8	
	22.9	24.4	3.1 DB/3.1 D	15218	1.5	142	572	1231	0.9	4 5 1
	24.4	25. 9	3. 1 D	15219	1.5	163	534	447	1.0	1
	25.9	27.4	3.1/2.3/2.4	15220	1.5	78	92	283	0.4	
	27.4	29.0	2.3/3.1 D	15221	1.6	98	141	372	0.6	1 6 8 6
	29.0	30.5	2.3 D	15222	1.5	49	122	112	1.1	A
	30.5	32.0	2.3 D/3.1 D	15223	1.5	79	140	337	0.8	6
	32.0	33.5	2.3 D/3.1 D	15224	1.5	63	191	198	0.9	1
	33.5	36.6	2.3 D, minor 2.4		3. 1	75	76	212	0.5	
	36.6	38.1	2.3 DI/2.4	15227	1.5	85	78	171	0.9	1
	38.1	39.6	2.3 DI/2.4	15228	1.5	72	232	888	1.1	
	39.6	41.2	3.1 DB/2.3 I	15229	1.6	81	369	371	1.4	25
	41.2	44.2	3.1 DA	15230/31	3.0	53	132	110	1.2	
	44.2		3.1 DA 3.1 DA	15232	1.5		88	188	0.9	3
		45.7		15233	1.5	101	160	264	1.4	
	45.7	47.2	3.1 DA	15234	1.6	80	101	200	1.3	
	47.2	48.8	3.1 DA		1.5	75	37	253	0.3	
	48.8	50.3	3.1 DA	15235	1.5	69	92	163	0.5	
	50.3	51.8	3.1 DA	15236		65		303	0.5	
	51.8	53.3	3.1 DA	15237	1.5		106 755	941	2.0	
	53.3	54.9	3.1 D	15238	1.6	226		393	1.6	
	54.9	56.4	3.1 D/2.3	15239	1.5	197	268	842	0.9	17
	56.4	57.9	3.1 D/2.3/2.4	15240	1.5	159	419		0.9	
	57.9	59.4	2.3/3.1 D	15241	1.5	149	280	908		5
	59.4	61.0	3.1 D/3.2 D	15242	1.6	59	110	276	0.6	
	61.0	62.5	3.1 D/3.2 D	15243	1.5	62	50	273	0.4	
	62.5	64.0	3.1 D la	15244	1.5	23	66	197	0.4	
	54.0	67.1	3.1 D la	15245/46	3.1	46	343	117	0.6	1
	67.1	70.1	3.1 D 1a/3.2 DF	15247/48	3.0	12	35	49	0.3	
	70.1	73.2	3.1 D 1a/3.2 DF	15249/50	3. 1	14	24	63	0.2	1
	73.2	74.7	3.1 DB/3.2 DF	15251	1.5	17	29	133	0.4	
	74.7	76.2	3.1 DB	15252	1.5	42	106	321	0.5	1
	76.2	77.7	3.1 DB/3.2 D	15253	1.5	88	535	783	0.8	
	77.7	80.8	3.2 D	15254/55	3.1		31	105	0.5	
	80.8	82.3	3.2 D	15256	1.5	14	34	141	0.4	4

0. 2

¢.

N	RD	-8	7-	2
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	07.0	3.2 D/3.1 DB	15257	1.5	17	54	19/	w. J	
82.3	83.8		15258	1.5	32	35	202	0.2	1
83.8	85.3	3.2 D/3.1 DB	15259/60	3. 1	19	20	82	0.2	1
85.3	88.4	3.2 D/3.1 DB		3.0	21	49	158	0.2	1
88.4	91.4	3.2 D/3.1 DB	15261/62	77.72		30	211	0.2	1
91.4	93.0	3.2 D/3.1 DB	15263	1.6	35				-
93.0	94.5	3.1 DB/3.2 D	15264	1.5	375	1161	1105	3.0	-
	96.0	2.3 E/3.1 DB	15265	1.5	235	272	985	1.3	1
94.5		2.3 E/3.1 DB	15266	1.5	108	111	347	0.6	1
96.0	97.5			3.1	49	50	290	0.2	1
97.5	100.6	3.1 DB/2.3 E	15267/68		1000	68	286	0.1	1
100.6	102.1	3.1 DB/3.2 D	15269	1.5	51			0.6	1
102.1	105.2	3.1 DB/3.2 D	15270/71	3.1	59	54	367		
105.2	108.2	3.1 DB/3.2 D	15272/73	3.0	26	13	86	0.4	2
		3.1 DB/3.2 D	15274/75	3.0	14	8	55	0.1	1
108.2	111.2		15276/77	3. 1	4	2	47	0.1	2
111.2	114.3	3.1 DB/3.2 D			15	11	66	0.1	3
114.3	117.4	3.1 DB	15278/79	3. 1		11	80	0.1	1
117.4	118.9	3.1 DB	15280	1.5	12	9			
118.9	120.4	3.1 DB	15281	1.5	7	2	52	0.1	1

END OF HOLE

PROJECT : SEMCO HOLE NO.: NRD-87-3

PROJECT NO. : 137
DRILL TYPE : Reverse Circulation

NTS : 082M05

DATE COLLARED : SEPT 25, 1987 DATE COMPLETED : SEPT 26, 1987

Deoth	Inclination	Bearing	Eastings	Northings	Ε	levation		1	Page 1 of
0.0 51.30	-64.0 -64.0	58.0 58.0	31280.00 31299.07	27500.00 27511.92		1350.00 1303.89			
FROM	то	LITHOLOGY	SAMPLE	WIDTH	Cu pom	Pb bpm	Zn oom	Ag opm	Au oot
4.6	6. 1	OVBN	15285	1.5	55	52	163	0.4	41
6.1	7.6	.,	15286	1.5	54	46	255	0.2	45
7.6	9.1	n .	15287	1.5	34	74	259	0.2	37
9.1	10.7	3.2 DB	15288	1.6	38	97	123	0.1	15
10.7	12.2	3.2 DB/3.1 DB	15289	1.5	75	81	153	0.2	12
12.2	13.7	3.2 DB/3.1 DB	15290	1.5	88	58	115	0.1	14
13.7	15.2	3.2 DB/3.1 DB	15291	1.5	634	28	131	0.6	55
15.2	16.8		15292	1.6	182	21	126	0.2	11
16.8	18.3		15293	1.5	159	24	244	0.2	24
18.3	19.8	**	15294	1.5	73	29	116	0.1	53
19.8	21.3	ii .	15295	1.5	48	284	150	0.9	42
21.3	22.9		15296	1.6	31	38	99	0.1	19
22.9	24.4	**	15297	1.5	35	107	139	0.1	11
24.4	25.9		15298	1.5	31	72	119	0.1	7
25.9	27.4		15299	1.5	38	65	105	0.1	10
27.4	29.0	3.1 DB	15300	1.6	1854	4246	5117	10.2	31
29.0	30.5		15301	1.5	1339	3083	6024	5.4	14
30.5	32.0		15302	1.5	1666	2332	3029	6.2	21
32.0	33.5		15303	1.5	236	503	923	0.9	6
33.5	35. 1		15304	1.6	253	241	449	0.5	6
35. 1	36.6	3.2 D	15305	1.5	110	69	189	0.1	6 2
36.6	38.1	3.2 BD	15306	1.5	126	76	238	0.1	
38.1	39.6	3.2 DB	15307	1.5	942	166	319	1.4	4
39.6	41.2	ar .	15308	1.6	55	129	243	0.3	1
41.2	42.7		15309	1.5	72	507	460	0.9	13
42.7	44.2	3.2 DB/3.1 DB	15310	1.5	258	757	1577	1.6	27
44.2	45.7	3.1 DB/3.2 D	15311	1.5	384	1923	2875	2.1	24
45.7	47.2	3.1 DB	15312	1.5	782	4763	6212	3.8	30
47.2	48.8	.m.	15313	1.6	1024	12783	27108	9.9	60
48.8	50.3		15314	1.5	283	2791	3638	2.1	23
50.3	51.3	3.1 DB/3.2 D	15315	1.0	159	1641	2627	1.4	16

END OF HOLE

HERNY W

PROJECT : SEMCO HOLE NO.: NRD-87-4 PROJECT NO. : 137

DRILL TYPE : Reverse Circulation

NTS : 082M05

DATE COLLARED : SEPT 28,1987
DATE COMPLETED : OCT 1.1987

Elevation Page 1 of 3 Northings Deoth Inclination Bearing Eastinos 27700.00 1425.00 0.0 -65.0 56.0 31190.00 1245.55 27746.79 198.0 -65.0 56.0 31259.37 Pb pom FROM TO LITHOLOGY SAMPLE WIDTH Cu pom Zn Dom An pom 248 0.5 6 OVEN 15316 1.6 83 450 1.5 3.1 0.2 1.5 42 122 238 14 3.1 4.6 15317 1.5 29 80 133 0.1 25 15318 4.6 6.1 56 91 0.2 23 15319 1.5 20 6. 1 7.6 93 20 50 0.1 19 7.6 9.1 15320 1.5 3.2 D/DVBN 15321/22 3.1 29 36 88 0.1 19 9. 1 12.2 3.0 23 22 65 D. 3 11 15323/24 15.2 3.2 D 12.2 20 80 0.2 3.1 53 136 15. 2 18.3 15325/26 3.0 19 16 71 0.2 7 18.3 21.3 15327/28 25 88 0. 1 15329/30 3.1 16 11 21.3 24.4 71 0.1 15331/32 3.0 11 17 1 24.4 27.4 19 91 15333/34 3.1 21 0.1 8 27.4 30.5 3.0 17 31 121 0.1 1 33.5 15335/36 30.5 154 36.6 3. 1 16 43 0.1 13 33.5 15337/38 36.6 38.1 3.2 DI 15339 1.5 11 39 65 0.3 11 15340 1.5 26 26 142 0. 1 3 38. 1 39.6 3.2 17 29 97 0.2 7 3.1 39.6 42.7 15341/42 15343/44 3.0 16 24 99 0.2 6 42.7 45.7 69 0.1 45.7 47.2 3.2 D 15345 1.5 15 26 1 0.1 1.6 29 31 98 8 47.2 48.8 15346 1.5 24 159 0.5 51 48.8 50.3 15347 121 3.2/2.4 1.5 37 54 299 0.2 20 50.3 51.8 15348 182 0. 1 3 51.8 53.3 3.2 D/2.4 15349 1.5 33 43 15350 1.6 28 90 224 0.2 53.3 54.9 1304 0.8 21 3.2 D 1.5 86 613 54.9 56.4 15351 326 30 56. 4 57.9 3.2 15352 1.5 232 120 0.7 959 52 203 1.3 61 57.9 59.4 3.2 DB 15353 1.5 55 59.4 3.2 D/3.1 D 15354 1.6 166 240 634 0.8 61.0 1.5 69 129 271 0.4 39 61.0 62.5 3.1 15355 1.5 52 132 212 0.3 26 62.5 64.0 15356 924 1204 2.0 72 15357 1.5 189 64.0 65.5 55 86 678 983 1.3 65.5 67.1 15358 1.5 67.1 3.1/3.2 D 15359 1.5 52 413 477 0.8 33 68.6 55 1.5 101 541 1136 1.1 70.1 15360 68.6 3. 1 279 1636 1300 2.7 60 70.1 71.6 15361 1.5 71.6 678 774 1.3 43 73.2 3.1/3.2 15362 1.6 124 1.5 45 15363 43 124 103 0. 1 73.2 74.7 3.2 34 96 0.1 19 74.7 76.2 15364 1.5 40 36 109 0.1 1 77.7 3.2 D 15365 1.5 32 76.2 76 342 448 0.1 13 77.7 79.3 15366 1.6 485 0.1 11 79.3 80.8 15367 1.5 41 137 1.5 84 555 263 0.3 7 3.2 D/3.1 D 15368 80.8 82.3 54 434 731 0.9 12 82.3 83.8 3.1 DB/3.2 DB 15369 1.5 5 83.8 85.3 15370 1.5 85 426 537 0.3 85.3 86.9 3.1 DB 15371 1.6 64 375 567

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86.9	88.4		15372	1.5	37	340	1270	0.8	10
88. 4	89.9		15373	1.5	22	131	298	Ø. 1	8
89.9	91.4	3.1 DB/3.2 D	15374	1.5	15	145	393	0.2	1
91.4	93.0		15375	1.6	16	116	224	0.1	8
93.0	94.5	3.1 DB	15376	1.5	559	241	494	2.0	27
94.5	96.0	u .	15377	1.5	277	157	339	0.8	16
96.0	97.5	3.1 DB/3.2 D	15378	1.5	170	254	1139	1.1	17
97.5	99.1	10	15379	1.6	554	1155	5509	3.5	23
99.1	100.6		15380	1.5	571	289	807	1.1	21
100.6	102.1	11	15381	1.5	781	188	822	0.8	26
102.1	103.6		15382	1.5	132	745	947	1.1	14
103.6	105.2		15383	1.6	108	519	1179	1.0	12
105.2	106.7		15384	1.5	87	155	530	0.5	4
106.7	108.2	11	15385	1.5	163	559	1469	1.0	1
108.2	109.7		15386	1.5	297	2102	4018	1.5	1
109.7	111.2		15387	1.5	189	820	2195	1.5	2
111.2	112.8	-11	15388	1.6	463	1258	4057	2.2	23
112.8	114.3		15389	1.5	129	1199	5553 +	0.6	14
114.3	115.8	3.1 DB	15390	1.5	168	1314	1833	0.9	1
115.8	117.4	3.1 DB/3.2 D	15391	1.6	45	373	825	0.6	2
117.4	118.9	Qtz v/3.1 DB	15392	1.5	17	81	137	0.3	1
118.9	120.4	3.1 D/Qtz v	15393	1.5	552	1230	2725	2.8	3
120.4	121.9	3.1 D	15394	1.5	288	1367	2004	2.1	2
121.9	123.4	**	15395	1.5	511	652	1164	2.5	3
123.4	125.0	**	15396	1.6	496	1258	1680	2.3	9
125.0	126.5		15397	1.5	140	349	690	0.6	14
126.5	128.0		15398	1.5	615	1393	1779	2.9	1
128.0	129.5	3.1 DB	15399	1.5	425	2450	3622	3.6	33
129.5	131.1	"	15400	1.6	143	1065	1148	1.1	13
131.1	132.6	n	15401	1.5	248	450	931	0.5	18
132.6	134.1	3.1 D	15402	1.5	714	1525	1806	1.5	16
134.1	135.6		15403	1.5	661	4138	5835	3.9	19
135.6	137.2	11	15404	1.6	1422	4423	6655	4.6	30
137.2	138.7	3.1 DB	15405	1.5	824	4100	5657	3.1	19
138.7	140.2	"	15406	1.5	847	3766	3486	2.8	55
140.2	141.7	n n	15407	1.5	1012	1404	2929	2.2	23
141.7	143.3	**	15408	1.6	2029	7068	13118	5.8	35
143.3	144.8	10	15409	1.5	1001	4348	9608	7.0	1
144.8	146.3	3.1 DB/3.2 D	15410	1.5	540	1486	2433	1.6	10
146.3	147.8	3.2 B/3.1 DB	15411	1.5	696	1881	2713	2.0	11
147.8	149.3	3.1 DB	15412	1.5	1620	1401	2350	3.6	1
149.3	150.9	"	15413	1.6	516	508	854	1.3	23
150.9	152.4	in .	15414	1.5	234	462	845	1.0	19
152.4	153.9	u ·	15415	1.5	196	948	1887	1.0	31
153.9	155. 4	· u	15416	1.5	196	465	429	1.1	29
155.4	157.0	11	15417	1.6	540	2033	3186	3.2	33
157.0	158.5	3.1 D	15418	1.5	216	467	869	1.1	56
158.5	160.0	3.1 DB	15419	1.5	312	885	1031	1.8	42
160.0	161.5	3.1 DB/3.2 D	15420	1.5	170	191	613	0.6	23
161.5	163.1	3.2 D/3.1 DB	15421	1.6	242	282	977	1.2	45
163.1	164.6	3.2 D/3.1 D	15422	1.5	330	2047	2043	2.5	53
	166.1	3.2 D	15423	1.5	73	658	1041	0.7	92
164.6	100.1	3. E D	10460	1.0	, 5	030			

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166.1	167.6		15424	1.5	63	250	400	0.5	39
167.6	169.2	3.2 DB	15425	1.6	69	525	1125	0.8	42
169.2	170.7	"	15426	1.5	63	357	468	0.4	32
170.7	172.2	3.1 D/3.2 D	15427	1.5	339	3201	4376	3.4	75
172.2	173.7	3.1 D	15428	1.5	62	367	799	0.5	56
173.7	175.3	3.1 D/3.2 D	15429	1.6	54	292	547	0.6	47
175.3	176.8	The second of	15430	1.5	178	1805	2159	2.9	65
176.8	178.3	11	15431	1.5	271	2487	2182	3.6	72
178.3	179.8		15432	1.5	124	1421	2058	2.2	86
179.8	181.3	n .	15433	1.5	154	803	1341	1.8	172
181.3	182.9	3.2 D	15434	1.6	51	106	193	0.3	19
182.9	184.4	10	15435	1.5	76	402	688	1.1	62
184.4	187.4	u.	15436/37	3.0	64	206	302	0.5	17
187.4	189.0	3.2 D/3.1 D	15438	1.6	103	431	379	1.5	28
189.0	190.5	,	15439	1.5	69	776	361	2.0	32
190.5	192.0	3.2 D	15440	1.5	46	301	274	1.4	28
192.0	193.5		15441	1.5	54	174	157	1.5	50
193.5	195.1	n	15442	1.6	45	80	127	0.8	21
195.1	198.0		15443/44	2.9	33	26	75	0.8	72

END OF HOLE

GEOLOGIST: A Mockede

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PROJECT : SEMCO HOLE NO.: NRD-87-5

PROJECT NO. : 137
DRILL TYPE : Reverse Circulation

NTS : 082M05

DATE COLLARED : OCT 2,1987 DATE COMPLETED : OCT 2,1987

Deoth	Inclination	Bearing	Eastinos	Northings	Ε	levation			Page 1 of
0.0 120.4	-60.0 -60.0	58.0 58.0	31275.00 31326.00	28300.00 28331.90		1485.00 1380.73	2000		
FROM	то	LITHOLOGY	SAMPLE	WIDTH	Cu pom			Ag pom	Au pob
	4.5	OVBN	15445	1.5	38	299	196	0.2	41
3.1	4.6	UVBN	15446	1.5	39	259	349	2.1	46
4.6	5.1	2.4/3.2	15450	1.5	196	355	675	1.3	88
10.7	12.2	3.2/2.4	15451	1.5	7.75	674	1086	1.2	49
12.2	13.7	2.4 minor 3.2	15452	1.5	35	674 151 129	208	0.3	
13.7	15.2 16.8	2.4 minor 3.2	15453	1.6	25	129	606	0.4	42
15.2	16.8	2.4	15454/55	3.0	39	163	333	0.5	71
16.8	19.8	2.4/3.2	15456	1.5		145	262	0.9	140
19.8	21.3			1.6	47	140	593	0.7	105
21.3	22.9	Ž.	15457	1.5	47 56	118	1120		
22.9	24.4	300	15458	1.6	725	98	1120 257 262 325	1.2	91
27.4	29.0	2.4	15461	1.5	325 166	98 365	252	0.9	70
29.0	30.5		15462		100	304	705	0.4	4 (-
30.5	32.0	14	15463	1.5	48		335	0.5	
36.6	38.1		15467	1.5		250	1000	1.6	
38.1	39.6		15468	1.5	508	1511	1262 3999	2.0	
39.6	41.2	и .	15469	1.6	540	3544	3999	2.8	
41.2	42.7		15470	1.5	163	1156	1678	1.0	45
42.7	44.7	n	15471	2.0	197	1625	2485	1.3	34
44.7	45.7		15472	1.0	224		3891	1.6	37
45.7	47.2	и	15473	1.5	123	1915	2115	1.3	23
47.2	48.8	ar .	15474 15475 15476 15477	1.6	138	1464	2121	1.0	21
	50.3	2.4 minor 3.2	15475	1.5	145	2133	3464	1.5	
48.8	51.8	2.4	15476	1.5	296	842	1102	1.7	
50.3		2.4 minor 3.2	15477	1.5	340	1780	2551	3.2	49
51.8	53.3	E. 4 MITHOF S. E	15478	1.6	127	737	1333	1.2	30
53.3	54.9	2.4/3.2	15479	1.5	149		1550	1.6	43
54.9	56.4	2.4/3.2	15480	1.5	251	2346	2675	2.3	55
56.4	57.9	2		1 5	60	453	744	0.6	
57.9	59.4	7	15481	1.6	67 95	549	898	0.6	
59.4	61.0		15482	1.5	05	1038	1853	0.7	
61.0	62.5	11	15483	1.5	746	6535	12148	5.4	
62.5	64.0		15484	1.5	685	7120	9383	4.9	136
64.0	67.1	12	15485/86		685			0.6	
67.1	68.6	2.4 B/3.2	15487	1.5	100	1283	1225		55
68.6	70.1		15488 15489	1.5	118		1584		
70.1	71.6	2.4 B minor 3.2	15489	1.5	42	957	1039	0.5	
71.6	73.2	n	15490	1.6	133	2184	2666		
73.2	74.7	2.4	15491	1.5	76		1715	0.8	
74.7	76.2	2.4 B	15492	1.5	173	2682	2556	2.9	
76.2	77.7	2.4	15493	1.5	130	1992	1631	2.1	26
77.7	79 7	2 4 B	15494	1.6	59	2564	2214		18
79.3	82.3	2.4 B 5% Qtz v	15495/96	7 0	153	2424	2966	1.5	
82.3	83.8	2.4 B/3.2	15497	1.5	410	2403	3334	1.8	
	85.3	E.4 B/3.E	15498	1.5	1024	3586	4029	2.8	
83.8			15499	1.6	469	2803	3318		
85.3			15500	1.5	3577	3902	5603	6.6	
86.9	88.4	2.4/3.2	10000			10.00	40.7		

			15501/02	3.0	673	3510	2310	3.0	36	
88.			15503	1.6	90	268	393	0.1	25	
91.		3.2		3.0	98	540	744	0.2	14	
93.		2.4/3.2	15504/05		142	823	864	0.5	24	
96.	@ 97.5	2.4	15506	1.5			1284	0.6	23	
97.	5 100.6	2.4 B	15507/08	3.1	125	1158		1.3	29	
100.		•	15509/10	3.0	170	5533	2544		17	
103.			15511/12	3.1	369	1361	1079	0.8	13	
106.		2.4 8/3.2	15513/14	3.0	212	736	805	0.3	16	
109.		"	15515	1.5	265	2311	2597	1.8	9	
		11	15516	1.6	762	11308	14132	7.8	38	
111.			15517	1.5	236	2199	2878	1.5	16	
112.			15518/19	3. 1	99	887	1174	0.6	6	
114.				3.0	75	979	1781	1.1	12	
117.	4 120.4		15520/21	3.6	, ,	2.2				
E	ND OF HOLE				G	SEOLOGIST:	J.D	lexla	b	
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PROJECT : SEMCO HOLE NO.: NRD-87-6 PROJECT NO. : 137

DRILL TYPE : Reverse Circulation

NTS: 082M05 DATE COLLARED : OCT 3,1987 DATE COMPLETED : OCT 4,1987

Page 1 of 2 Elevation Northinas Inclination Bearing Eastinos 1125.00 31775.00 26637.00 -60.0 58.0 0.0 31840.26 26677.77 991.72 -60.0 58.0 153.9 AD ODM Au ppb WIDTH Cu oom Pb oom Zri pom SAMPLE LITHOLOGY FROM TO 0.6 16 593 198 424 15523 1.6 OVBN 3. 1 1.5 0.5 5 358 239 220 15524 1.5 4.6 3.1 319 387 0.6 38 237 1.5 15525 6. 1 4.6 56 361 0.6 499 238 15526 1.5 6.1 7.6 0.2 14 192 1.5 152 123 15527 7.6 9.1 236 0.4 254 124 15528 1.6 9.1 10.7 114 0.2 74 93 15529 1.5 OVBN/3.1 B 10.7 12.2 0.3 71 1.5 32 17 15530 3. 1 B 12.2 13.7 35 0.1 58 1.5 15531 13.7 15.2 0.2 45 18 14 15533 3. 1 15.2 18.3 46 0.1 15534 1.5 28 13 19.8 18.3 52 0.1 1.5 22 8 15535 19.8 21.3 10 46 0.1 21 15536 1.6 21.3 22.9 46 0.1 24 8 15537 1.5 22.9 24.4 5 43 0.1 19 1.5 15538 24.4 25.9 0.1 1.5 22 10 15539 27.4 25.9 9 9 41 0.1 1.6 15540 27.4 29.0 9 44 0.1 9 1.5 15541 29.0 30.5 0.3 30 78 21 15542 1.5 32.0 3.1 B/3.2 30.5 77 0.1 26 19 15543 32.0 33.5 64 0.2 11 1.6 21 15544 33.5 35.1 9 598 0.1 38 328 15545 1.5 35.1 36.6 232 0.2 32 171 3.1 B/OVBN 15546 36.6 38. 1 0.2 6 331 440 61 3.1 B 15547 1.5 38.1 39.6 627 0.2 597 3.1 B (minor 3.2) 15548 1.6 57 39.6 41.2 38 68 114 0.1 1.5 15549 3.1 B 41.2 42.7 104 0.1 57 36 15550 1.5 42.7 44.2 0.3 132 40 77 3.1 B/10% Qtz cb v 15551 1.5 44.2 45.7 0.4 1.5 26 11 58 15552 45.7 47.2 59 0.4 10 26 3.1 B (minor otz-cb) 15553 47.2 48.8 0.4 33 111 15554/55 42 3.1 B 3.0 48.8 51.8 94 0.4 1.5 24 30 15556 3.1 B/3.2 51.8 53.3 480 1.4 78 587 1.6 15557 54.9 3.1 B 53.3 7 0.6 183 25 121 15558 1.5 3.1 B/3.2 54.9 56.4 1 0.4 27 52 115 15559 1.5 56.4 57.9 9 0.1 23 26 67 1.5 59.4 15560 57.9 67 132 0.5 49 15561 1.6 3.1 B 59.4 61.0 0.2 36 24 80 15562/63 3.0 3.1B/3.2 61.0 64.0 85 0.1 26 30 3.1 B/Qtz v 15564/65 3.1 67.1 64.0 71 0.3 31 20 3.1 B/3.2 15566 67.1 68.6 0.3 46 153 113 15567 1.5 68.6 70.1 445 0.7 352 15568 1.5 82 70.1 71.6 3.1 B 10 0.9 417 404 140 3.1 B/ Qtz v 15569 1.6 71.6 73.2 606 2.1 17 803 556 15570 1.5 3.1 B/2.3 73.2 74.7 801 1296 129 15571 1.5 74.7 76.2 3.1/2.3

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99.1 100.6			11			58	152	356		1
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112.8 114.3 3.1 B 15596 1.5 39 46 77 0.1 1 114.3 115.8 3.1 15597 1.5 80 286 563 0.2 2 115.8 117.4 " 15598 1.6 128 1353 2222 1.3 3 117.4 118.9 " 15599 1.5 109 495 1281 0.9 2 118.9 120.4 3.1/2.3 15600 1.5 89 633 1213 0.6 3 120.4 123.4 " 15601/02 3.0 124 795 1219 1.2 1 123.4 125.0 " 15603 1.6 270 1064 1795 2.7 21 125.0 126.5 3.1 minor 3.2 15604 1.5 69 266 365 0.3 5 126.5 128.0 " 15605 1.5 66 438 349 0.6 1 128.0 129.5 3.1 minor 2.3/3.2 15606 1.5 121 305 643 0.5 8 129.5 131.1 3.1 15607 1.6 53 100 297 0.2 14 131.1 134.1 3.1/2.3 15608/09 3.0 59 107 282 0.3 8 129.5 131.1 3.1 15608/09 3.0 59 107 282 0.3 8 134.1 137.2 3.1 minor 3.2 15610/11 3.1 55 31 130 0.3 1 137.2 138.7 3.1/3.2 15612 1.5 47 28 81 0.1 2 138.7 140.2 " 15613 1.5 47 28 81 0.1 2 138.7 140.2 " 15614 1.5 47 32 138 0.1 4 141.7 144.8 " 15615/16 3.1 38 47 116 0.1 1 144.8 147.8 2.3/3.1 15617/18 3.0 29 27 314 0.1 1 144.8 147.8 2.3/3.1 15617/18 3.0 29 27 314 0.1 1 147.8 150.9 " 15619/20 3.1 32 34 117 0.1 1 147.8 150.9 " 15621 1.5 32 258 112 0.6 1			"				47	63	0.3	1
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129.5 131.1 3.1 15607 1.6 53 100 297 0.2 14 131.1 134.1 3.1/2.3 15608/09 3.0 59 107 282 0.3 8 134.1 137.2 3.1 minor 3.2 15610/11 3.1 55 31 130 0.3 1 137.2 138.7 3.1/3.2 15612 1.5 47 28 81 0.1 2 138.7 140.2 " 15613 1.5 60 46 76 0.6 1 140.2 141.7 3.1 15614 1.5 47 32 138 0.1 4 141.7 144.8 " 15615/16 3.1 38 47 116 0.1 1 144.8 147.8 2.3/3.1 15617/18 3.0 29 27 314 0.1 1 147.8 150.9 152.4 " 15621 1.5 32 258 112 0.6 1			7 (8
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134.1 137.2 3.1 minor 3.2 15610/11 3.1 55 31 130 0.3 1 137.2 138.7 3.1/3.2 15612 1.5 47 28 81 0.1 2 138.7 140.2 " 15613 1.5 60 46 76 0.6 1 140.2 141.7 3.1 15614 1.5 47 32 138 0.1 4 141.7 144.8 " 15615/16 3.1 38 47 116 0.1 1 144.8 147.8 2.3/3.1 15617/18 3.0 29 27 314 0.1 1 147.8 150.9 " 15619/20 3.1 32 34 117 0.1 1 150.9 152.4 " 15621 1.5 32 258 112 0.6 1	A STATE OF THE STA						- 100			
137.2 138.7 3.1/3.2 15612 1.5 47 28 81 0.1 2 138.7 140.2 " 15613 1.5 60 46 76 0.6 1 140.2 141.7 3.1 15614 1.5 47 32 138 0.1 4 141.7 144.8 " 15615/16 3.1 38 47 116 0.1 1 144.8 147.8 2.3/3.1 15617/18 3.0 29 27 314 0.1 1 147.8 150.9 " 15619/20 3.1 32 34 117 0.1 1 150.9 152.4 " 15621 1.5 32 258 112 0.6 1										
138.7 140.2 " 15613 1.5 60 46 76 0.6 1 140.2 141.7 3.1 15614 1.5 47 32 138 0.1 4 141.7 144.8 " 15615/16 3.1 38 47 116 0.1 1 144.8 147.8 2.3/3.1 15617/18 3.0 29 27 314 0.1 1 147.8 150.9 " 15619/20 3.1 32 34 117 0.1 1 150.9 152.4 " 15621 1.5 32 258 112 0.6 1										
140.2 141.7 3.1 15614 1.5 47 32 138 0.1 4 141.7 144.8 " 15615/16 3.1 38 47 116 0.1 1 144.8 147.8 2.3/3.1 15617/18 3.0 29 27 314 0.1 1 147.8 150.9 " 15619/20 3.1 32 34 117 0.1 1 150.9 152.4 " 15621 1.5 32 258 112 0.6 1										1
141.7 144.8 " 15615/16 3.1 38 47 116 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										4
144.8 147.8 2.3/3.1 15617/18 3.0 29 27 314 0.1 1 147.8 150.9 " 15619/20 3.1 32 34 117 0.1 1 150.9 152.4 " 15621 1.5 32 258 112 0.6 1										1
147.8 150.9 " 15619/20 3.1 32 34 117 0.1 1 150.9 152.4 " 15621 1.5 32 258 112 0.6 1										1
150.9 152.4 " 15621 1.5 32 258 112 0.6 1			2.3/3.1							1
130.5										1
152.4 153.9 " 15622 1.5 15 /4 4// 6.2 1										1
	152.4	153.9		15622	1.5	15	/+	411	V. L.	•

END OF HOLE

PROJECT : SEMCO HOLE NO. : NRD-87-8

PROJECT NO. : 137 DRILL TYPE : Reverse Circulation

NTS : 082M05

DATE COLLARED : OCT 4.1987 DATE COMPLETED :

Deoth	Inclination	Bearing	Eastinos	Northings	E	levation			Page 1 01
0.0 132.6	-64.0 -64.0	58.0 58.0	31280.00 31329.30	27503.00 27533.80		1350.00			
FROM	то	LITHOLOGY	SAMPLE	WIDTH	Cu pom	Pb pom	Zrı DDM	Ag pom	Au opt
0.0	50.3	Refer to NRD-87-3							
50.3	51.8	3.1 BD/3.2 D	15742	1.5 1.5	297	1981	3116		
51.8	53.3	3.1 bb/3.2 b	15743	1.5	247	1554	1972	1.4	
	54.9		15744	1.5	820	3986	5426		
53.3			15745	1.5	1988	11405	11972	9.1	62
54.9	56.4	3.1 BD	15746	1.5		13602	15076	11.2	64
56.4	57.9	3.1 00	15747			17549	20347	16.9	103
57.9	59.4		15747 15748	1.6	3243 539	5033	7718	3.9	
59.4	61.0	3.1 D/3.2 D	15740	1.5		1564	1849	1.1	26
61.0	62.5	3.1 D/3.2 D	15749 15750	1.5	200	2422 1376	3055	1.7	28
62.5	64.0		89426	1.5	143	1376	1541	1.1	56
64.0	65.5 67.1		07420	1.6	150	1812		1.5 2.1 13.0	54
65.5	67.1	" 3.1 BD/3.2 D	89427	1.5		1812 2578	2667	2.1	21
67.1	68.6	3.1 BD/3.2 D	89428			15744	15051	13.0	330
68.6	70.1	3.1 DB	89429	1.5 1.5 1.6	2101	4473	5882	3.9	37
70.1	71.6	3.1 DB/3.2 D 3.2 D/3.1 BD	89430	1.5	340	2962	3228	2.6	
71.6	73.2	3.2 D/3.1 BD	89431	1.6	342	2853	4196	2.7	67
73.2	74.7		03436	1.5	332 132	2833	1039	1 2	86
74.7	76.2	3.2 D/3.1 D	89433	1.5	132	993 1359		1.4	72
76.2	77.7		89434	1.5		1359	1624	1.2	48
77.7	79.3	n .	89435	1.6	68	426	560	0.2	
79.3	80.8	3.2 D	89436	1.5	52	192	226		
80.8	82.3		89437	1.5	53	103	148 108	0.2	
82.3	83.8	3.2 D (minor 3.1 D)	89438	1.5	73		108	0.1	21
83.8	85.3		89439	1.5	53	1112	186		
85.3	86.9	3.2 D/3.1 D	89440	1.6	425	529	1011	2.7	55
86. 9	88.4		89441				244	0.7	17
88.4	00 0	n .	89442	1.5 1.5 1.5	110	275	1004	1.1	24
89.9	01.4		89443	1.5	69	203	208	0.5	
	02.0		A9444		34	80	118	0.4	
91.4	93. e	и	89445	1.5	34	308	616	1.2	
93.0	94.5		89446	1.5	41	274	367	1.1	43
94.5	96.0	" " 3.1 D (minor 3.2 D)	89447	1.5	34 34 41 37	163	157	0.9	48
96.0	97.5	3.1 D (M1/10/ 3.2 D)	89448	1.6	49	256	458	1.2	51
97.5	22.1	3.1 D/3.2 D	00440	1.5	49	181	301	1.1	46
99. 1		2	00450	1.5		2445	2418	4.3	87
100.6	102.1		89450 89451	1.5		2722	3940	2.7	123
102.1	103.6		00453			6245	8989	5.9	
103.6	105.2		89452 89453	1.6	150	2760	4617	2.8	
105.2	106.7		89453		15Ø 165	2626	3337	2.8	
106.7	108.2		89454	1.5	165	1202		1.4	
108.2	109.7	3.2 D	89455	1.5 1.5	112		749		
109.7	111.2	3.1 D (minor 3.2 D)	89456			355		1 7	93
	112.8		89457	1.6 1.5	109		1510	2.7	193
112.8	114.3		89458	1.5	163	1845	2704	E. /	130
114.3	115.8	3.1 D/3.2 D	89459	1.5	56	557	802	1.1	106

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		3.1 D (minor 3.2 D)	89460	1.6	32	172	184	0.3	17	
115.8	117.4		89461	1.5	60	225	316	0.4	64	
117.4	118.9	3.1 D White Qtz	89462	1.5	52	157	283	0.6	22	
118.9	120.4	3.1/3.2/Qtz		1.5	279	97	177	0.5	12	
120.4	121.9	3.1 B/3.2/Qtz	89463		52	229	319	0.3	24	
121.9	123.4	3.2 J/3.1	89464	1.5		593	1124	0.6	18	
123.4	125.0		89465	1.6	140		660	0.6	44	
125.0	126.5		89466	1.5	109	608		0.5	38	
126.5	128.0	3.1/3.2	89467	1.5	88	371	466		24	
128.0	129.5	3.2 J/3.1	89468	1.5	62	243	344	0.3		
129.5	131.1	3.2/3.1/Qtz	89469	1.6	52	320	325	0.4	24	
131.1	132.6	3.1/3.2/Qtz	89470	1.5	71	307	277	0.5	58	
END OF					GE	OLOGIST:	4.4	lenden	le	MA VONDE.
						,				

2 %

PROJECT : SEMCO HOLE NO.: NRD-87-9

PROJECT NO. : 137 DRILL TYPE : Reverse Circulation

DATE COLLARED : OCT 5,1987 DATE COMPLETED :

	Depth	Inclination	Bearing	Eastinos	Northings	E	levation		F	age 1 of 2
	0.0 121.9	-65.0 -65.0	60 60	31407.00 31451.62	38402.00 28427.76		1495.00 1384.52			
-	FROM	то	LITHOLOGY	SAMPLE	WIDTH	Cu ppm	Pb DOM	Zrı pom	Ag Dom	Au opb
	6.1	7.6	OVBN	89475	1.5	469	5087	13655	4.7	136
	7.6	9. 1	3.2 D/DVBN	89476	1.5	153	1382	1351	1.4	24
	9.1	10 7	3.2 D	89477	1 6	201	1857	1674	2.3	25
	10.7	12.2	"	89478	1.5	438	991	861	2.2	33
	12.2	13.7	3.2 B	89479	1.5	608	1754	2193	5.7	38
	13.7	15.2	J. L D	89480	1 5	504	1251	1547	2.7	24
	15.2	16.8	3.2 B/Qtz/Ovbn	89481	1.6	1694	1437B	21575	19.6	51
	16.8	18.3	3.2 B	89482	1.5	421	1415	1830	2.4	15
	18.3	19.8	3.1/3.2	89483			7608	4643	10.0	58
	19.8	21.3	3.1/3.2	89484	1.5	206	1286	903	2.2	26
			3.2	89485	1.6	259	1103	788	1.8	
	21.3	22.9		89486	1.5		601	392	0.9	8
	55.9	24.4	3.2 B					551	1.5	31
	24.4	25.9 27.4		89487	1.5		801		3.7	31
	25. 9	27.4	3. 1	89488	1.5	255	871	809	3.7	55
	27.4	29.0	3.2/3.1	89489	1.6	184 124 135 114	1843	644	4.7	
	29.0	30.5	3.2 D	89490	1.5	124	522	388	1.1	25
	30.5	32.0	3.2 B	89491	1.5	135	516	360	0.9	
	32.0	33.5		89492	1.5	114	531	913	0.6	6
	33.5	35.1		89493	1.6	128	394	557	0.5	
	35. 1	36.6	3.2 D	89494	1.5	837 195	733	938	2.9	27
	36.6	38.1	3.1 D/3.2	89495	1.5	195	400	786	1.2	14
	38. 1	39.6	3.1/3.2	89496	1.5	187	493	631	1.3	16
	39.6	41.2	3.2/3.1	89497	1.6	175	499	500	1.8	27
	41.2	42.7		89498	7.5	470	1253	2184	4.2	37
	42.7	44.2	3.2 B/3.1	89499	1.5	676	2314	4075	6.5	55
	44.2	45.7		89500	1.5	676 1728	1447	6609	5.9	104
	45.7	47 9	7 1	1110B			1556	2621	4.6	58
	47.2	48.8		1111B	1.6		619	882	1.6	21
	48.8	50.3	3.2 B/3.1	1112B	1.5	68	551	818	0.4	В
	50.3	53.3		1113B/14B	3.0		1230	1765	0.4	42
	53.3	54.9		1115B	1.6	133 63	1230	546	0.3	16
	54.9	56.4	3.2/3.1 B	1116B	1 5	43	356	455	0.3	23
	56.4	57.9	"	1117B	1.5		2489	5164	2.7	54
	57.9	59.4	ii .	1118B	1.5	298	1235	1287		70
	59.4	61.0	3.1/3.2	1119B	1.5	1753	9537	8613	5.0	56
	61.0	62.5		1120B	1.5	269	1947	1494	1.2	25
	62.5	64.0		1121B	1.5	124	713	595	0.6	39
	64.0	67.1		1122B/23B	3 1	124 95	713 368	354	0.3	35
				1124B	1.5	67	300	166	0.2	13
	67.1	68.6	3.2/3.1		3.0	75	99 81	102	0.9	
	68.6	71.6		1125B/26B 1127B	1.6	47	156	180	0.4	8
	71.6	73.2	3.1/3.2							
	73.2	74.7		1128B	1.5	64	163	174	0.1	1
	74.7	76.2		1129B	1.5			171	0.3	
	76.2	77.7	3.2 B/3.2/OTHER 10%		1.5	95	249	169	0.1	1
	77.7	80.8	3.2 B	1131B/32B	3.1	29	72	106	0.1	1

NTS : 082M05

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80.8 83.8 86.9 89.9 93.0 96.0 99.1 102.1 105.2 108.2 111.2 114.3 115.8 117.4 118.9	83.8 86.9 89.9 93.0 96.0 99.1 105.2 108.2 111.2 114.3 115.8 117.4 118.9 120.4 121.9	3.2 B 3.2 B/3.1 B 3.2 3.1 B/3.2 3.2/3.1 B 3.1 B 3.1 B/3.2 " 3.2/3.1 3.2/3.1	1133B/34B 1135B/36B 1137B/36B 1137B/36B 1139B/40B 1141B/42B 1143B/44B 1145B/46B 1147B/46B 1147B/46B 1151B/52B 1153B/54B 1153B/54B 1155B 1156B 1157B 1156B 1157B	3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 1.5 1.5 1.5	14 21 19 25 43 14 23 14 8 6 7 17 5 7	27 62 40 45 37 57 25 30 20 19 16 76 25 31 35 28	71 137 113 107 111 146 92 94 62 76 64 97 68 71 78 82	0.3 0.1 0.3 0.2 0.1 0.3 0.1 0.2 0.1 0.4 0.4	1 1 1 3 1 9 6 7 1 1 4 12 5 6
END O	F HOLE				GE	OLOGIST:	4.4	loveher	lo-

PROJECT : SEMCO HOLE NO.: NRD-87-12 PROJECT NO. : 137

DRILL TYPE : Reverse Circulation

NTS : 082M05

DATE COLLARED : OCT 8,1987 DATE COMPLETED : OCT 8.1987

Inclination Bearing Eastinos Northinos Elevation Page 1 of 2 Death -40.0 31975.00 26340.00 990.00 0.0 58.0 920.45 108.2 -40.0 58.0 32045.29 26383.92 FROM TO LITHOLOGY SAMPLE WIDTH Pb opm Zn pom Ap pom Au pob Cu pom 4.6 6.1 DVEN 4536B 1.5 415 180 248 0.6 0.5 7.6 4537B 1.5 293 BO 187 6.1 400 499 735 0.6 7.6 9. 1 4538B 1.5 9.1 10.7 4539B 1.6 331 58 246 0.6 378 157 346 0.6 10.7 12.2 4540B 1.5 200 3 12.2 13.7 4541B 1.5 267 59 0.3 13.7 15.2 4542B 1.5 299 67 188 0.5 15.2 4543B 1.6 279 101 223 0.4 16.8 1.5 243 233 238 0.4 16.8 18.3 4544B 48 18.3 19.8 2.3/3.1 4545B 1.5 53 8 0.1 19.8 2.3 E/3.1 4546B 1.5 55 20 51 0.3 21.3 46 0.4 21.3 22.9 4547B 1.6 36 1.5 22 101 0.1 22.9 24.4 2.3 E 4548B 61 2.3 ED 1.5 72 26 178 0.4 24.4 25.9 4549B 107 0.3 25.9 4550B 1.5 76 18 27.4 85 9 92 0.2 27.4 29.0 2.3 E (minor 3.2) 4551B 1.6 29.0 2.3 E 4552B 1.5 91 13 124 0.4 30.5 107 104 0.2 2.3 DE (minor 3.1) 1.5 17 32.0 4553B 33.5 85 0.3 32.0 2.3 DE 4554B 1.5 65 10 33.5 35. 1 2.3 DE/Qtz 4555B 1.6 77 13 58 0.3 75 9 76 0.2 35.1 38.7 2.3 DE 3.6 4556B/57B 4558B/59B 50 45 38.7 41.2 2.3 DE/3.1 D/Qtz 2.5 11 0.3 41.2 44.2 2.3 DE 4560B/61B 3.0 118 135 784 0.5 165 0.2 44.2 47.2 4562B/63B 3.0 87 19 85 90 0.2 47.2 50.3 4564B/65B 3. 1 14 50.3 3.0 77 58 0.2 53.3 4566B/67B 13 53.3 2.3 E 68 13 68 0.2 56. 4 4568B/69B 3.1 56.4 59.4 2.3 DE 4570B/71B 3.0 73 20 67 0. 1 59.4 62.5 84 37 0.4 2.3 E 4572B/73B 3.1 64 52 80 28 0.2 62.5 65.5 2.3 DE/3.2 D 4574B/75B 3.0 65.5 67.1 2.3 DE (minor 3.2) 4576B 1.6 84 20 66 0.3 67.1 68.6 1.5 106 20 80 0.2 4577B 2.3 E .. 1.5 75 77 68.6 4578B 20 0.4 70.1 70.1 71.6 4579B 1.5 83 21 64 0.2 71.6 73.2 4580B 1.6 78 27 99 0.3 73.2 76.2 2.3 ED 4581B/82B 3.0 69 12 80 0.3 79.3 2.3 D 76.2 4583B/84B 3.1 86 17 86 0.1 79.3 82.3 2.3 DE 4585B/86B 3.0 56 19 80 0.2 2 97 0.5 82.3 85.3 2.3 D (minor 3.1) 4587B/88B 3.0 72 24 85.3 2.3 D 3.1 84 15 50 0.4 88.4 4589B/90B 88.4 91.4 4591B/92B 3.0 76 16 77 0.2 91.4 47 14 58 0.3 94.5 4593B/94B 3.1 103 0.4 94.5 97.5 4595B/96B 3.0 66 97.5 100.6 4597B/98B 3. 1 52 34 50 0.3 100.6 28 77 0.2 102.1 4599B 1.5

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NRD-87-12

102.1	103.6	3.2 D/2.3 D	4600B	1.5	69	19	64	0.2	2
	106.7	2.3 D (minor 3.2 D	The state of the s	3.1	96	27	79	0.1	1
103.6		2.3 0 (1111101 3.2 0	4603B	1.5	85	9	55	0.1	1
106.7	108.2	3.20	40000		1				

GEOLOGIST: G. Sperdale

PROJECT : SEMCO PROJECT NO. : 137 NTS : 082M05 DATE COLLARED : OCT 10,1987 HOLE NO.: NRD-87-13 DRILL TYPE : Reverse Circulation DATE COMPLETED : OCT 10,1987

4.6 6.1 OVBN 4605B 1.5 118 947 2800 1.8 6.1 7.6 3.1 4606B 1.5 162 1209 1801 2.3 7.6 9.1 3.1 D 4607B 1.5 162 1209 1801 2.3 7.6 9.1 3.1 D 4607B 1.5 152 1569 2686 2.7 10.7 12.2 " 4608B 1.6 152 1569 2686 2.7 10.7 12.2 " 4609B 1.5 2099 2307 449B 3.1 12.2 13.7 " 4608B 1.5 295 1020 2326 1.8 13.7 15.2 3.1 D minor 2.3 D 4611B 1.5 282 1248 1492 3.2 15.2 16.8 3.1 D/2.3 D 4612B 1.6 406 2601 434B 6.9 16.8 16.8 18.3 3.1 D minor 2.3 D 4612B 1.6 406 2601 434B 6.9 11.2 18.3 19.8 3.1 D minor 2.3 D 4614B 1.5 171 1047 2120 2.1 19.8 21.3 3.1 D/2.3 4615B 1.5 555 2774 4210 5.2 21.3 22.9 3.1 D 4614B 1.5 171 1047 2120 2.1 19.8 21.3 2.1 D 4614B 1.5 171 1047 2120 2.1 21.3 22.9 3.1 D 4616B 1.6 292 1900 2865 4.5 22.9 27.4 3.2 D 4618B 1.5 89 2869 472 5.4 25.9 27.4 3.2 D 4618B 1.5 15 89 2869 472 5.4 25.9 27.4 3.2 D 4618B 1.5 1007 656 502 1.0 27.4 29.0 3.2 D/3.1 D 4620B 1.5 1007 656 502 1.0 27.4 29.0 3.2 D/3.1 D 4620B 1.5 1007 656 502 1.0 29.0 30.5 3.1 D (minor 3.2 D) 4620B 1.5 1007 656 502 1.0 29.0 30.5 3.1 D (minor 3.2 D) 4620B 1.5 1007 656 502 1.0 29.0 30.5 3.1 D (minor 3.2 D) 4620B 1.5 1009 807 1116 3.2 11 33.5 35.1 2.3 D 4623B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 55 55 120 505 0.7 36.6 38.1 31.DF (minor 2.3 D) 4624B 1.5 109 807 1116 3.2 11 33.5 35.1 2.3 D 4624B 1.5 30 30 30 6.6 4624B 1.5 44.6 465 166 0.2 334 702 0.9 335.1 36.6 2.3 D/3.1 D 4623B 1.5 30 30 30 6.6 4624B 1.5 44.6 5 166 0.2 334 702 0.9 335.1 36.6 2.3 D/3.1 D 4624B 1.5 30 30 30 5 30 30 30 6.6 4624B 1.5 50 30 30 30	Deoth	-50.0							1	Page 1 of 1
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21.3 22.9 3.1 D 4616B 1.6 292 1900 2865 4.5 22.9 24.4 3.1 D (minor 2.3) 4617B 1.5 189 895 1356 1.7 19 24.4 25.9 3.1 D 4618B 1.5 89 2869 472 5.4 29 25.9 27.4 3.2 D 4619B 1.5 107 656 502 1.0 27.4 29.0 30.5 3.1 D 4620B 1.5 468 520 645 1.5 1 29.0 30.5 3.1 D (minor 3.2 D) 4621B 1.5 60 391 371 1.2 30.5 32.0 " 4622B 1.5 99 1086 1664 3.8 1 32.0 33.5 3.1 D 4623B 1.5 109 807 1116 3.2 1 33.5 35.1 2.3 D 4624B 1.6 62 334 702 0.9 35.1 36.6 2.3 D/3.1 D 4625B 1.5 55 120 505 0.7 36.6 38.1 39.6 3.1 DF (minor 2.3D) 4626B 1.5 44 65 166 0.2 38.1 39.6 3.1 DF (minor 2.3D) 4626B 1.5 34 10 76 0.1 39.6 41.2 " 4628B 1.6 39 9 74 0.1 41.2 42.7 " 4628B 1.5 90 356 615 1.1 42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4630B 1.5 50 153 303 0.6				4614B	1.5	171	1047	2120 🦂		2 4 9
21.3				4615B	1.5	555	2774	4210	5.2	
22.9 24.4 3.1 D (minor 2.3) 4617B 1.5 189 895 1356 1.7 15 24.4 25.9 3.1 D 4618B 1.5 89 2869 472 5.4 25.9 27.4 3.2 D 4619B 1.5 107 656 502 1.0 27.4 29.0 3.2 D/3.1 D 4620B 1.6 468 520 645 1.5 12 30.5 32.0 30.5 3.1 D (minor 3.2 D) 4621B 1.5 60 391 371 1.2 30.5 32.0 33.5 3.1 D (minor 3.2 D) 4622B 1.5 99 1086 1664 3.8 1 32.0 33.5 35.1 2.3 D 4624B 1.5 109 807 1116 3.2 17 33.5 35.1 2.3 D 4624B 1.6 62 334 702 0.9 35.1 36.6 2.3 D/3.1 D 4625B 1.5 55 120 505 0.7 36.6 38.1 39.6 3.1 DF (minor 2.3D) 4626B 1.5 44 65 166 0.2 38.1 39.6 3.1 DF (minor 2.3D) 4626B 1.5 34 10 76 0.1 39.6 41.2 " 4628B 1.6 39 9 74 0.1 41.2 42.7 " 4628B 1.5 90 356 615 1.1 42.7 44.2 " 4629B 1.5 90 356 615 1.1 42.7 44.2 " 4629B 1.5 90 356 615 1.1 42.7 44.2 " 4629B 1.5 50 153 303 0.6 44.2 45.7 " 4630B 1.5 50 153 303 0.6				4616B	1.6	292	1900	2865	4.5	8
24.4 25.9 3.1 D 4618B 1.5 89 2869 472 5.4 2 25.9 27.4 3.2 D 4619B 1.5 107 656 502 1.0 27.4 29.0 3.2 D/3.1 D 4620B 1.6 468 520 645 1.5 1 29.0 30.5 32.0 " 4622B 1.5 99 1086 1664 3.8 1 32.0 33.5 32.0 " 4623B 1.5 109 807 1116 3.2 1 33.5 35.1 2.3 D 4624B 1.6 62 334 702 0.9 35.1 36.6 2.3 D/3.1 D 4625B 1.5 55 120 505 0.7 36.6 38.1 39.6 3.1 DF (minor 2.3D) 4626B 1.5 44 65 166 0.2 38.1 39.6 41.2 " 4628B 1.6 39 9 74 0.1 41.2 42.7 44.2 " 4629B 1.5 90 356 615 1.1 42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4630B 1.5 50 153 303 0.6			3.1 D (minor 2.3)	4617B	1.5	189	895	1356	1.7	15
25.9 27.4 3.2 D 4619B 1.5 107 656 502 1.0 27.4 29.0 3.2 D/3.1 D 4620B 1.6 468 520 645 1.5 1 29.0 30.5 3.1 D (minor 3.2 D) 4621B 1.5 60 391 371 1.2 30.5 32.0 " 4622B 1.5 99 1086 1664 3.8 1 32.0 33.5 3.1 D 4623B 1.5 109 807 1116 3.2 1 33.5 35.1 2.3 D 4624B 1.6 62 334 702 0.9 35.1 36.6 2.3 D/3.1 D 4625B 1.5 55 120 505 0.7 36.6 38.1 3.1 DF (minor 2.3D) 4626B 1.5 44 65 166 0.2 38.1 39.6 3.1 DF (minor 2.3D) 4626B 1.5 34 10 76 0.1 39.6 41.2 " 4628B 1.6 39 9 74 0.1 42.7 44.2 " 4629B 1.5 90 356 615 1.1 42.7 44.2 " 4629B 1.5 50 153 303 0.6 44.2 45.7 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4630B 1.5 63 454 1042 1.8						89	2869	472	5.4	29
27.4					1.5	107	656	502	1.0	3
29.0 30.5 3.1 D (minor 3.2 D) 4621B 1.5 60 391 371 1.2 30.5 32.0 " 4622B 1.5 99 1086 1664 3.8 1 32.0 33.5 3.1 D 4623B 1.5 109 807 1116 3.2 1 33.5 35.1 2.3 D 4624B 1.6 62 334 702 0.9 35.1 36.6 2.3 D/3.1 D 4625B 1.5 55 120 505 0.7 36.6 38.1 3.1 DF (minor 2.3D) 4626B 1.5 44 65 166 0.2 38.1 39.6 3.1 DF 4627B 1.5 34 10 76 0.1 39.6 41.2 " 4628B 1.6 39 9 74 0.1 41.2 42.7 " 4628B 1.5 90 356 615 1.1 42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4630B 1.5 63 454 1042 1.8					1.5	468	520	645	1.5	10
30.5 32.0 " 46228 1.5 99 1086 1664 3.8 1 32.0 33.5 3.1 D 46238 1.5 109 807 1116 3.2 1 33.5 35.1 2.3 D 46248 1.6 62 334 702 0.9 35.1 36.6 2.3 D/3.1 D 46258 1.5 55 120 505 0.7 36.6 38.1 3.1 DF (minor 2.3D) 46268 1.5 44 65 166 0.2 38.1 39.6 3.1 DF 46278 1.5 34 10 76 0.1 39.6 41.2 " 46288 1.6 39 9 74 0.1 41.2 42.7 " 46298 1.5 90 356 615 1.1 42.7 44.2 " 46308 1.5 50 153 303 0.6 44.2 45.7 " 46318 1.5 63 454 1042 1.8				4621B	1.5	60	391	371	1.2	9
32.0 33.5 3.1 D 4623B 1.5 109 807 1116 3.2 1 33.5 35.1 2.3 D 4624B 1.6 62 334 702 0.9 35.1 36.6 2.3 D/3.1 D 4625B 1.5 55 120 505 0.7 36.6 38.1 39.6 3.1 DF (minor 2.3D) 4626B 1.5 44 65 166 0.2 38.1 39.6 3.1 DF 4627B 1.5 34 10 76 0.1 39.6 41.2 " 4628B 1.6 39 9 74 0.1 41.2 42.7 " 4628B 1.5 90 356 615 1.1 42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4630B 1.5 63 454 1042 1.8			11	4622B	1.5	99	1086	1664	3.8	12
33.5 35.1 2.3 D 46248 1.6 62 334 702 0.9 35.1 36.6 2.3 D/3.1 D 46258 1.5 55 120 505 0.7 36.6 38.1 3.1 DF (minor 2.3D) 46268 1.5 44 65 166 0.2 38.1 39.6 3.1 DF 4627B 1.5 34 10 76 0.1 39.6 41.2 " 4628B 1.6 39 9 74 0.1 41.2 42.7 " 4629B 1.5 90 356 615 1.1 42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4631B 1.5 63 454 1042 1.8			3.1 D			109	807	1116	3.2	17
35.1 36.6 2.3 D/3.1 D 4625B 1.5 55 120 505 0.7 36.6 38.1 3.1 DF (minor 2.3D) 4626B 1.5 44 65 166 0.2 38.1 39.6 3.1 DF 4627B 1.5 34 10 76 0.1 39.6 41.2 " 4628B 1.6 39 9 74 0.1 41.2 42.7 " 4629B 1.5 90 356 615 1.1 42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4631B 1.5 63 454 1042 1.8					1.5	62	334	702	0.9	3
42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4631B 1.5 63 454 1042 1.8					1.5	55	120	505	0.7	5 4 3 2 4
42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4631B 1.5 63 454 1042 1.8							65	166	0.2	4
42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4631B 1.5 63 454 1042 1.8						34	10	76	0.1	3
42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4631B 1.5 63 454 1042 1.8							9	74	0.1	2
42.7 44.2 " 4630B 1.5 50 153 303 0.6 44.2 45.7 " 4631B 1.5 63 454 1042 1.8			11				356	615	1.1	4
44.2 45.7 " 4631B 1.5 63 454 1042 1.8			11						0.6	1
771.0			11							3
45.7 47.2 " 46328 1.5 50 402 532 0.5	45.7	47.2	11	4632B	1.5	80	402	952	0.5	1

END OF HOLE

GEDLOGIST:

APPENDIX II
STATEMENT OF COST

NORANDA EXPLORATION COMPANY, LIMITED STATEMENT OF COSTS

PROJECT: Semco Option DATE: April 1988

TYPE OF REPORT: Reverse Circulation Drilling

a) Wages:

No. of Days 36 Mandays

Rate per Day \$130.00/manday

Dates From: Sept. 21/87 to Oct.8/87

Total Wages 36 x \$130.00 4,680.00

b) Food & Accomodations:

No. of Days 13 days

Rate per Day \$80.00

Dates From: Sept. 21/87 to Oct. 8/87

Total Costs 13 x \$80.00 1,040.00

c) Transportation: Two Trucks

No. of Days 18 truck days

Rate per Day \$60.00

Dates From: Sept. 21/87 to Oct. 8/87

Total Costs 18 x \$60.00 1,080.00

d) Instrument Rental:

Type of Instrument

No. of Days

Rate per Day \$

Dates From:

Total Costs x \$

Type of Instrument

No. of Days

Rate per Day \$

Dates From:

Total Costs x \$

e)		\$6,250.00
	(See attached schedule)	
f)	Cost of preparation of Report	
	Author:	300.00
	Drafting:	100.00
	Typing:	100.00
g)	Other:	
	Contractor	
	Western Hydro-Air Drilling	38,610.00
	Van Kam (sample shipping)	750.00
	Can-Am Contracting Ltd. (road building)	4,000.00
Total Cost		\$56,910.00
h)	Unit costs for Drilling	

1054 metres

1054 x \$53.99

\$53.99 / metre

\$56,910.00

No. of Days

No. of Units

Unit costs

Total Cost

NORANDA EXPLORATION COMPANY, LIMITED (WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT:

ELEMENT	NO. OF	DETERMINATIONS	COST PER DETERMINATION	TOTAL COSTS
Rock				
Cu, Pb, Zn,	Ag	537	4.25	2282.25
Au		537	4.25	2282.25
				4564.50
		Sample preparatio	n 537 x 3.00	1611.00
				6175.50
<u>Soil</u>				
Cu, Pb, Zn,	Ag	8	4.25	34.00
Au		8	4.25	34.00
				68.00
		Sample preparation	on 8 x 0.75	6.00
				74.00
			Grand Total	\$6249.50

APPENDIX III STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

- I, Glenn Shevchenko, with a business address at P.O. Box 2380, 1050 Davie Street, Vancouver, British Columbia, do hereby certify that:
 - 1) I am presently employed with Noranda Exploration Company, Limited, as a Project Geologist, and have been since May 1984.
 - 2) I have worked in the mineral exploration industry since 1977.
 - 3) I graduated (1982) from Concordia University with a B.Sc. in geology.
 - 4) I am a member of the Geological Association of Canada.

Glenn Shevchenko

