

GM 45588

REVERSE CIRCULATION DRILL HOLE LOG

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Énergie et Ressources
naturelles

Québec 

REVERSE CIRCULATION DRILL HOLE LOG

DATE 23-9-86 HOLE NO LDVT-501 LOCATION L26E/1300S
 GEOLOGIST J. BABINEAU DRILLER G. HOWE BIT NO. CB69337 BIT FOOTAGE 0.0-11.0
 SHIFT HOURS 17:00-17:05 MOVE TO HOLE 17:15-18:10
 TO 17:15-18:10 DRILL 17:15-18:10
 TOTAL HOURS MECHANICAL DOWN TIME
 DRILLING PROBLEMS
 CONTRACT HOURS OTHER
 MOVE TO NEXT HOLE (24-9-86) 7:20-7:25

Bit changed at top of Hole.
 Sub-bit changed for a used one.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
				METRES						
1				0.0-0.5 = Organics, 0.5-4.5 = Beige Fine-clast Sand, (Medium grained). 4.5-10.0 = Till (Coating on clasts observed from 5.0 m.). 10.0-11.0 = bedrock.						
2										
3				<u>Boulders</u>						
4										
5			1	<u>Matrix</u>						
6				4.5-6.0 = beige medium grained sand						
7			2	6.0-7.0 = Grey clay + silt with rare small pebbles						
8				7.0-10.0 = Grey medium grained sand						
9			3							
10				<u>Clasts</u>						
11			4	4.5-5.5 = Pebbly SR	S/V	GR				
12				5.5-6.0 = Cobbly "	50%	50%				
13				6.0-10.0 = Pebbly SR-SA	"	"				
14				6.0-7.5 = Lot of Fe-carbonate schist clast (SA)	80%	20%				
15				9.0-10.0 = Lot of Sericite schist clasts.						
16										
17				<u>Bedrock</u>						
18				Slight green to grey, fine grained Sericite schist (siltstone). Strong cleavage. Few white quartz on/and carbonate veinlets.						
19										
20										

NOTE: SAMPLE LDVT-500-4 is probably contaminated by bedrock

Ministère de l'Énergie et des Ressources
 Service de la Géoinformation
 Date 25 JAN 1988
 No 45583

REVERSE CIRCULATION DRILL HOLE LOG

DATE 23-9 1986

HOLE NO LDVT-502 LOCATION L27E/12+50 S

GEOLOGIST J. BABINEAU DRILLER G. HOWE BIT NO. 5862336 BIT FOOTAGE 21.4-36

SHIFT HOURS

MOVE TO HOLE 14:25 - 14:45

TO

DRILL 14:50 - 16:50

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 17:00 - 17:05

Drilled on top of a 5 to 6 metres hill.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG METRES						
1				0.0-1.0 = Poor Recovery (Estimate of 0.5m. Organics followed by 0.5m. Sand and gravel). 1.0-12.7 = Riverbed till? (Probably gravel and coarse sand, No coating observed on clasts). 12.7-13.0 = Lodgement till. 13.0-15.1 = bedrock						
2										
3				<u>Boulders</u>						
4				5.5-5.7 = Felsic Volcanic						
5				11.3-11.7 = Diorite						
6				12.4-12.7 = Sericite schist (Felsic Volcanic?)						
7				<u>Matrix</u>						
8				1.0-4.2 = beige-grey Coarse Sand (Brown when Fe-carbonate clast						
9				4.2-4.5 = Rusty brown Coarse Sand						
10				4.5-5.0 = White to grey to pale green Coarse Sand						
11				6.0-6.1 = Brown coarse sand						
12				6.1-8.0 = Pale grey Coarse Sand						
13				8.0-8.5 = Brown Sand						
14				8.5-12.7 = Pale grey to green sand						
15				12.7-13.0 = Grey Clay + Silt (Nice coating on clasts)						
16				<u>clasts</u>						
17				1.0-5.5 = Pebbly SR						
18				↳ lot of Fe-carbonate						
19				5.0-6.5 = Cobbly SR						
20				6.5-9.0 = Pebbly SR						
				9.0-12.7 = Cobbly SR-SA						
				12.7-13.0 = Pebbly SR-SA						
				<u>Bedrock</u>						
				Pale grey Fine grained Sericite Achist (Mudstones + Siltstones). Strong cleavage + Lamination. Few white quartz veinlets, Few Pyrite seams. At 15.0 = grey Pyrite bearing quartz vein.						
				<u>NOTE</u> : Very poor recovery until lodgement till.						

REVERSE CIRCULATION DRILL HOLE LOG

DATE 23-9 19 86

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-503 LOCATION L 28E / 12+25 S

GEOLOGIST J. BABINEAU DRILLER G. HOWG BIT NO. CB68336 BIT FOOTAGE 15.2-21.

MOVE TO HOLE 13:45 - 13:50

DRILL 13:50 - 14:20

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 14:25-14:45

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	-DESCRIPTIVE LOG METRES
0				0,0-1,5 m. = Pucanics. 1,5-4,0 m. = grey to beige sand + pebbly sand and gravel (probably not till). Free-clast sand from 1,5 to 2,5 m. 4,0-6,2 m. = bedrock.
1				
2				<u>Boulders:</u>
3				
4				
5				<u>Matrix:</u> 1,5-2,5 Fine to medium beige sand 2,5-4,0 Coarse beige sand
6				
7				<u>Clasts:</u> 1,5-4,0 Pebbley SR-SA
8				S/L GR 50% 50%
9				
10				
11				<u>Bedrock:</u>
12				Pale grey to green fine grained Sericite schist (Siltstones and mudstones, white carbonate veinlets (calcite?)) White to grey quartz veinlets. Disseminated pyrite in veins and wall rock.
13				
14				
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE 23-9 1986

HOLE NO LDVT-504 LOCATION L29 E/12005
GEOLOGIST J. BABINEAU DRILLER G. HOWE BIT NO. CB6B336 BIT FOOTAGE 80-15

SHIFT HOURS

MOVE TO HOLE 12:55-13:00

TO _____

DRILL 13:00 - 13:40

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 13:45-13:50

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				METRES
0				0,0-1,0 m. = Poor recovery, 1,0-3,8 m. = Beige Fine-grained Free-clast Sand. 3,8-5,2 = Till? (Looks like gravel, no fine material; absence of clay coating on clasts). 5,2-7,2 m. = bedrock
1				
2				
3				
4				<u>Boulders:</u>
5				
6				<u>Matrix:</u>
7				3,8-5,2 = Grey Coarse Sand
8				
9				<u>Clasts:</u>
10				3,8-4,5 = Pebbly SR-SA
11				4,5-5,2 = Cobbly " "
12				
13				<u>Bedrock</u>
14				Fine grained pale grey to green Sericite Schist (Siltstones and mudstones). Strong schistosity and lineation. White carbonate (calcite?) veinlets. White to grey quartz veinlets. Disseminated pyrite.
15				5,5-6,0 Locally Very Soft. Recovery = White clayey mud (same composition than Sericite schist = Probable Fault gouge. Removed from Sample.
16				
17				7,0-7,1 Few rusty brown Fe-carbonate veinlets.
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE 23-9 1986

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-505 LOCATION L30E/1175 S

GEOLOGIST J. BABINEAU DRILLER G. HOUK BIT NO. CB 68336 BIT FOOTAGE 3.5-8.0

MOVE TO HOLE 10:55-12:20

DRILL 12:25 - 12:50

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 12:55-13:00

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	
				METRES	
				0,0-1,8 m. = Poor recovery (Probably free-clast sand)	
				1,8-2,0 = till? 2,0-4,5 = bedrock.	
				<u>Boulders</u>	
				1,5-1,8m. = Felsic Volcanic	
				<u>Matrix</u>	
				1,8-2,0 = Grey Medium grained sand (contaminated by bedrock)	
				<u>Clasts</u>	
				1,8-2,0 m. = Pebbly, SR-SA	S/V GR 80% 20%
				<u>Bedrock</u>	
				Fine grained, pale grey to green Sericite schist (Strong cleavage) = Mudstones and Siltstones. $\leq 10\%$ Fe-carbonate. Few white carbonate and/or Quartz veinlets. Really soft.	

REVERSE CIRCULATION DRILL HOLE LOG

DATE 23-9 1986

HOLE NO LDVT-507 LOCATION L34E/11+25S
GEOLOGIST J. BABINEAU DRILLER G. HOWG BIT NO. C68336 BIT FOOTAGE 0.0-3.5

SHIFT HOURS

MOVE TO HOLE 10:20-10:25

_____ TO _____

DRILL 10:25-10:55

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

OTHER

MOVE TO NEXT HOLE 10:55-12:20

Rewashed 3 times

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	
				METRES	
				0,0-0,7 m. = Organics; 0,7-1,7 = till; 1,7-3,5 = bedrock	
1					
2				<u>Boulders</u>	
3					
4					
5				<u>Matrix</u>	
6				0,7-1,7 m. = Grey Fine Sand	
7					
8				<u>clasts</u>	
9				0,7-1,7 m. = Pebbly, SR-SA	
10				S/V	GR
11				70%	30%
12				<u>Bedrock</u>	
13				Pale green fine grained Sericite Schist (+biotite) =	
14				Siltstone?	
15				Few white carbonate veinlets. Locally up to 10%	
16				Fe carbonates.	
17					
18					
19					
20					

REVERSE CIRCULATION DRILL HOLE LOG

DATE 23-9 19 86

HOLE NO LDVT-508 LOCATION L35E/11+25S
GEOLOGIST J. BABINEAU DRILLER G. HOWE BIT NO. C86835 BIT FOOTAGE 220.30

SHIFT HOURS
_____ TO _____

MOVE TO HOLE 9:15-9:20

TOTAL HOURS

DRILL 9:25-10:15

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 10:20 - 10:25

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	
				METRES	
				0,0-1,0 m. = Poor recovery; 1,0-7,2 = till (coating seen from 1,5 m.). 7,2-8,7 = bedrock	
1					
2		1		<u>Boulders</u>	
3					
4		2			
5					
6		3		<u>Matrix</u>	
7				1,0-2,0 m. = grey-green to brown, Medium to fine grained Sand	
8		4		2,0-5,5 = grey-green Sandy, No fine particles.	
9				5,5-5,7 = Coarse grey Sand	
10				5,7-7,2 = Grey Medium to coarse sand (+ Some grey Silts and clay).	
11					
12				<u>Clasts</u>	
13				1,0-2,0 m. = Cobbley, SR	S/V GR
14				2,0-7,2 = Pebbley, SR	60% 40% Fe-carbon rich clast
15					80% 20% " " " "
16					
17				<u>Bedrock</u>	
18				Pale green to grey Siltstone + Mudstone, Highly schistose	
19				= Sericite schist. locally $\leq 10\%$ Fe-carbonates. + Rare fine brownish Sandstone. Few white + beige carbonate inclusions.	
20					

REVERSE CIRCULATION DRILL HOLE LOG

DATE 23-9 1986 HOLE NO LDVT-510 LOCATION L37E/1100S
 GEOLOGIST J. B. BINEAU DRILLER G. HOWE BIT NO. C068335 BIT FOOTAGE 60-14.5
 SHIFT HOURS _____ MOVE TO HOLE 7:00
 _____ TO _____ DRILL 7:25-8:20
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 8:25-8:30

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0.0-1.0 m. = Sand; 1.0-7.2 = till (Coating on clasts seen from 6.0 m.); 7.2-8.5 m. = bedrock.						
2				<u>Boulders</u>						
3			1	3.8-4.0 m. = Diorite						
4										
5										
6			2	<u>Matrix</u>						
7				1.5-2.5 m. = grey Silt + clay						
8				2.5-3.5 = Grey Fine Sand						
9			3	3.5-6.2 = Grey-Green coarse to medium sand.						
10				6.2-6.7 = Grey Silt + clay (Poor content of clasts and small)						
11				6.7-7.0 = Grey Fine Sand						
12				7.0-7.2 = Grey Silt + clay						
13				<u>Clast</u>						
14				1.5-2.5 m. = Pebbly, SR-SA	S/N	GR				
15				2.5-4.0 = Cobbly, SR-SA	60%	40%				
16				4.0-4.8 = Pebbly, SR-SA	60%	40%				
17				4.8-5.2 = Cobbly, SR-SA	80%	20%				
18				5.2-7.2 = Pebbly-Cobbly, SR-SA	80%	20%				
19										
20				<u>Bedrock.</u>						
				Grey to pale to dark green Sericite + biotite + chlorite schist with locally 10% of Fe-carbonate. Few grey to white quartz veinlets + white carbonate veinlets. Fe-carb. content increase with depth. Some graphitic schist.						

REVERSE CIRCULATION DRILL HOLE LOG

DATE 24-9 19 86

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

7:10-

HOLE NO LDVT-511 LOCATION L-DVT-511 L 22E/225S

GEOLOGIST J. BABINEAU DRILLER G. HOWE BIT NO. CB68339 BIT FOOTAGE 17.7-38.3

MOVE TO HOLE 17:10-17:15

DRILL 17:15-18:00 → 25.9.86 7:15-8:05

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 8:20 move from LDV to LB arrive at LB-7-99

at 11:00

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0,0 - 19,1 beige sandy gravel or till (coating seen from 3.5 m)						
2				bedrock = 19,1 - 20,6						
3			1	Boulders: 17,7 - 17,8 Hematite rich + white quartz						
4				19,1 - 20,6 Sericite schist → bedrock						
5			2							
6			3	Matrix: 2,8 - 4,0 beige fine to medium sand						
7				4,0 - 10,0 gray silt-clay						
8			4	10,0 - 16,5 beige-gray fine-medium sand						
9				16,5 - 17,0 fine sand + silt						
10			5	17,0 - 18,0 beige coarse + medium sand						
11				18,0 - 19,1 beige fine-medium sand						
12			6	Clasts: 2,8 - 10,0 Cobbly S/V = 60% GR = 40% SR-SA						
13			7	a lot of carbonate (Fe) schist at 6,0						
14				10,0 - 19,1 Pebbly S/V = 80% GR = 20% SR-SA						
15			8							
16			9	Bedrock: Fine grained pale to medium gray sericite schist,						
17				(strong cleavage) siltstones + mudstones, 5-10%						
18			10	disseminated pyrite.						
19				Few white to gray quartz veinlets, < 10% of the						
20			11	whole rock (No visible sulphides)						
				from 19,1 to 20,6						

REVERSE CIRCULATION DRILL HOLE LOG

DATE 24-9 19 86

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-512 LOCATION LDVT-512 L23E/175S

GEOLOGIST J. BABINEAU DRILLER G. HOWE BIT NO. CB68339 BIT FOOTAGE 7.2-17.7

MOVE TO HOLE 16:20 - 16:25

DRILL 16:25 - 17:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 17:10 - 17:15

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0,0 - 1,5 m - Poor Recovery (probably free clasts beige sand)
1				1,5 - 6,0 beige sand, rare pebbles, 6,0 - 9,5 = Till?
2				
3				<u>Boulders</u> : 9,5 - 10,5 siltstone = bedrock
4				
5				<u>Matrix</u> : 6,0 - 9,0 gray clay-silt
6				9,0 - 10,5 fine gray clay
7				
8				<u>2</u> <u>Clasts</u> 6,0 - 10,5 Pebbly-Cobbly S/V = 80% GR 20% SA-SR
9				
10				<u>Bedrock</u> from 9,5 to 10,5
11				highly schistose mudstones + siltstones, dark gray to
12				pale gray, 10% pyrite (+arsenopyrite)
13				fine grained
14				few white to gray quartz veinlets at 10,0
15				60% to 80% quartz from 10,2 to 10,3
16				Quartz without sulphides
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE 24-9 19 86

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

New bit at 0,0

HOLE NO LDVT-513 LOCATION LDVT-513 L 24E/125S
GEOLOGIST J. BARBINEAU DRILLER G. HOWG BIT NO. C868339 BIT FOOTAGE 00-7.2
MOVE TO HOLE 15:35 - 15:40
DRILL 15:40 - 16:15
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 16:20 - 16:25

MOVE TO NEXT HOLE 16:20 - 16:25

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0,0 - 3,8 m = coarse beige sand (rare pebbles) 3,8 - 4,5 coarse sandy gravel or till, 4,5 - 5,0 free clast sand, 5,0 - 5,7 = till
1				
2				
3				Boulders: 5,7 - 7,2 Sericite schist (+ Pyrite + Quartz)
4				
5				Matrix: 3,8 - 4,5 beige coarse sand
6				5,0 - 5,7 beige coarse-medium sand
7				
8				Clasts: 3,8 - 4,5 Pebbly S/V = 60% GR = 40% SR
9				4,5 - 5,7 Pebbly S/V = 70% GR = 30% SR
10				
11				Bedrock from 5,7 to 7,2
12				same as LDVT-514
13				soft (15 minutes for 1,5 meters)
14				
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE 24-9 19 86 HOLE NO LDVT-514 LOCATION LDVT-514 L25E/100S
 GEOLOGIST J. BABINEN DRILLER G. HOWE BIT NO. C868337 BIT FOOTAGE 40.3-53
 SHIFT HOURS 10:30 - 10:40 C868338 0.0-6
 TO 10:40 - 15:20
 TOTAL HOURS MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS OTHER _____
 MOVE TO NEXT HOLE 15:35 - 15:40

Bit broken, changed at 13.5

4.5 - 6.0 Very poor recovery while drilling is fast?? one casing blocked with gravel → 11:00 - 11:20

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0.0 - 3.0 m. = coarse sand + gravel, 3.0 - 4.0 fine sand, free clasts, 4.0 - 9.5 = coarse sand + fine gravel = 9.5 - 10.5 (probably) or till coating seen at 14.0, 18.5 one small fine sand layer in the gravel, bedrock = 18.5 - 20.2						
2										
3										
4										
5				Boulders 10.5 - 11.5 - Mafic - Intermediate Volc.						
6				12.3 - 12.4 - Diorite						
7				13.1 - 13.3 - Chlorite - Sericite schist						
8				14.5 - Graphite schist (50% pyrite in grey quartz vein) * LDVT-514A						
9				15.2 - 15.3 - Diorite						
10				15.8 - 16.1 - Felsic Volc						
11				16.8 - 17.2 - Diorite						
12				18.1 - 18.2 - Gabbro diorite						
13				18.4 - 18.5 - " "						
14				→ Probably coarse sand + gravel						
15				Matrix 9.5 - 10.5 gray-beige coarse sand						
16				11.5 - 18.5 gray coarse sand						
17										
18				3 Clasts 9.5 - 10.5 Pebbly S/V = 70% G.R. = 30% SR, a lot of carbonate (Fe) schist clasts						
19				4 11.5 - 13.0 Cobbly S/V = 70% GR = 30% SR-SH						
20				13.0 - 13.8 Pebbly S/V = 80% GR = 20% SR						
21				13.8 - 14.0 Cobbly S/V = " " " SR-SH						
22				14.0 - 17.2 a lot of Fe carbonate clasts						
23				17.2 - 18.5 Cobbly S/V = 90% G.R. 10% SR-SH, a lot of intermediate volc. clasts						
24				Note: Contamination of sample 5 from the bedrock						

Bedrock 18.5 - 20.2

Siltstone - mudstone, gray, moderately schistose, silty, fine grained, 10% disseminated sulphides. (pyrite + arsenopyrite)

REVERSE CIRCULATION DRILL HOLE LOG

DATE 24-9 19 86

HOLE NO LDVT-55 LOCATION LDVT-SIS L26E/37SS
GEOLOGIST J. BABINEAU DRILLER G. HOWE BIT NO. C868337 BIT FOOTAGE 2618-70
MOVE TO HOLE 9:50 - 9:55
DRILL 9:55 - 10:25
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 10:30 - 10:40

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0,0 - 6,0 m = Fine to medium free clast beige sand
1				gravel - 6,0 - 10,5 coarse beige sand + pebbles, 10,5 - 11,5 -
2				Fine gray-beige sand, 11,5 - 12,5 - till, 12,5 - 13,5 = bedrock
3				<u>Boulders:</u> 12,5 - 13,5 siltstone
4				
5				<u>Matrix:</u> 11,5 - 12,5 gray sandy medium grained
6				
7				
8				<u>Clasts:</u> 11,5 - 12,5 pebbly s/v = 80% G.R. 20% SR-SH
9				a lot of carbonate schist (40%)
10				
11				
12				<u>Bedrock</u> from 12,5 - 13,5
13				Fine grained pale to dark gray mudstone (schisto-
14				+ siltstone, 5-10% disseminated pyrite.
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE 24-9 19 86

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-516 LOCATION LDVT-516 L27E/475S
GEOLOGIST J. B. BAINES DRILLER G. HOWE BIT NO. C868337 BIT FOOTAGE 19.3-26.0
MOVE TO HOLE 8:25 - 9:20
DRILL 9:20 - 9:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 9:50 - 9:55

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	
1				0,0 - 1,5 m = beige coarse sand, 4,0 - 6,0, Fine beige sand, 6,0 - 6,2	
2				Till 2, 6,2 - 7,5 bedrock	
3				<u>Boulders:</u> 6,2 - 7,5 Sericite schist = bedrock	
4				<u>Matrix:</u> 6,0 - 7,5 gray medium grained sand	
5					
6				<u>Clasts:</u> 6,0 - 7,5 Pebbly S/V = 80% G.R. = 20%	
7					
8				<u>Bedrock:</u> Fine grained highly schistose, pale gray siltstone or	
9				sericite schist	
10				disseminated pyrite (5% 30% to 50% of whole rock)	
11				white quartz grains from 7,1 - 7,5	
12				from 6,2 - 7,5	
13					
14					
15					
16					
17					
18					
19					
20					

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 26 19 87

HOLE NO. LDVT-592

LOCATION L16E/2100S

GEOLOGIST R. Leber

DRILLER D. Lind

BIT NO. CB68630

BIT FOOTAGE 41.9-50.

SHIFT HOURS

MOVE TO HOLE 13:00 - 17:20

TO

DRILL 5:30 - 6:15 6:20 - 7:00 redrill

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER Drill stuck in the mud

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
					% S	%	Gr. %	Shape		
1				0.0 - 2.0 Organics						
2				2.0 - 3.0 Gravel, brown medium grained sand (Till?)						
3				3.7 - Till, clay balls						
4				Boulders:						
5				3.0-3.7 Diorite						
6				7.6-7.7 Sandstone						
7				7.8-8.1 Sandstone						
8				Matrix:						
9				2.0-3.0 brown medium sand						
10				3.7-4.5 light green-gray fine sand and silt						
11				4.5-6.5 light green-gray silt and fine sand						
12				6.5-6.7 light gray clay balls						
13				6.7- light gray-green silt and fine sand						
14				Clasts:						
15				2.0-3.0 pebbly	50	50	SH-SR			
16				3.7-4.6 pebbly	10	90	SH-SR			
17				4.6-4.7 pebbly	30	70	SH-SR			
18				4.7- pebbly	50	50	SH-SR			
19				Shift ended. Hole completed						
20				by Kenzie MacNeil						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 26 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-592A LOCATION L 16 E ; 2+00 S

GEOLOGIST MacNeil DRILLER Haug BIT NO. CB68630 BIT FOOTAGE 50.1-

MOVE TO HOLE

DRILL 7:45 - 1:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER 6:30-7:00 Travel to drill ; 7:00-7:45 Haul water

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0.-1.5 No Return - no resistance to 0.7m (organics); intersect cobbles at 0.7 - till						
2				1.5 - 13.3 <u>Till</u>						
3				<u>Boulders</u>						
4				2.0-2.4 veined meta-sediment						
5				6.9-7.0 mafic volcanic						
6				8.3-8.6 granodiorite						
7				<u>Matrix</u>						
8				1.5-4.5 - beige, fine sand and silt matrix; gritty clay coating on some clasts and minor gritty clay balls at 3.9 m						
9			05	4.5-5.0 grey-beige gritty clay along with sand/silt						
10			06	5.0-6.4 grey-beige fine sand and silt						
11				6.4-7.0 grey, slightly gritty clay						
12			07	7.0-13.3 grey, fine sand and silt matrix - minor gritty clay balls						
13			08	<u>Clasts</u>						
14				1.5-3.5 cobbles; 65% volcanics/ sediments and 35% granitoids						
15				3.5-13.3 cobbles; 50:50 volcanics/ sediments: granitoids (cobbles very abundant below 5.5)						
16				13.3 - 14.0 <u>Bedrock</u> :- mudstone - dark grey to black; fissile; very fine grained						
17										
18				14.0 EOH						
19										
20										

LDVT-592A is a redill of #592
after drilling problems encountered
in 592. Move rig ~ 2m to new site
Begin sampling at 8.0m with
sample designation beginning
at LDVT-592A-05

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 25 19 82 HOLE NO LDVT-593 LOCATION L18E/2100S
 GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868632 BIT FOOTAGE 305-41
 SHIFT HOURS 12:55 - 13:00 MOVE TO HOLE 13:30 - 15:35
 TO 13:30 - 15:35 DRILL 13:30 - 15:35
 TOTAL HOURS MECHANICAL DOWN TIME
 DRILLING PROBLEMS 13:15 rod went in at an angle (removed, moved and
 OTHER redrilled)
 CONTRACT HOURS MOVE TO NEXT HOLE 15:55

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	S/v%	Gr. %	Shape			
1				0.0 - 1.5 no recovery (Organics to approximately 1m from abandoned hole.						
2			1	1.5 - 13.7 Till						
3				Boulders: 4.0-4.1 9.3-9.4						
4			2	4.7-5.0 9.7-9.9						
5				5.1-5.2 10.7-11.0						
6			3	8.1-8.2 11.8-11.9						
7				8.5-8.7 13.5-13.6						
8			4	8.9-9.1						
9				13.7-15.0 Bedrock						
10			5	Boulders:						
11				4.0-4.1 Diorite						
12			6	4.7-5.0 Diorite						
13				5.1-5.2 K-spar						
14			7	8.1-8.2 Sandstone						
15				8.5-8.7 Diorite						
16			8	8.9-9.1 Sandstone						
17				9.3-9.4 K-spar						
18				9.7-9.9 Diorite						
19				10.7-11.0 Sandstone						
20				11.8-11.9 Diorite						
21				13.5-13.6 Diorite						
22				Matrix						
23				gray-green clay-silt						
24				Clasts > 1.70mm						
25				pebbly 1.0-2.0	60	40	SR-SH			
26				pebbly 2.0-5.3	60	40	SH-SR			
27				pebbly 5.3-6.3	80	20	SH			
28				pebbly 6.3-6.4	30	70	SR-SH			
29				pebbly 6.4-11.0	70	30	SH-SR			
30				pebbly 11.0-13.7	40	60	SH			
31				Bedrock = 13.7-15.0						
32				chlorite sericite schist (siltstone, fine grained sandstone).						
33				Strong to moderate schistosity. Trace disseminated pyrite						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 25 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT 594 LOCATION L19E/2100S

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868632 BIT FOOTAGE 20.5-30

MOVE TO HOLE 11:20 - 11:35

DRILL _____ 11:40 - 12:35

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 12:55

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
					S/v %	Gr. %	Shape			
				0.0 - 1.0 Organics						
1				1.0 - 8.5 Till, clay coatings						
2				6.8 - 6.9 Sandstone } Boulders						
3			1	8.0 - 8.1 Quartzite }						
4				8.5 - 10.0 Bedrock						
5			2	Boulders:						
6				6.8 - 6.9 Sandstone						
7			3	8.0 - 8.1 Quartzite						
8				Matrix:						
9			4	1.0 - 7.5 gray fine sand and silt						
10			5	7.5 - 7.6 gray fine sand and less silt						
11				7.6 - 8.5 gray silt and fine sand						
12				Clasts:						
13				1.0 - 5.0 pebbly	60	40	SH			
14				5.0 - 5.2 larger pebbles	60	40	SH-H			
15				5.2 - 8.5 pebbly	60	40	SH-SR			
16				Bedrock:						
17				8.5 - 10.0 light green-gray chlorite						
18				sericite schist, siltstone (fine						
19				grained sandstone) moderate						
20				schistosity. Veinlets of carbonate						
				from 9.7 - 10.0m 25%. Trace						
				disseminated arsenopyrite?						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 25 19 87

HOLE NO LDVT-595 LOCATION L20E/2100S
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C68632 BIT FOOTAGE 14.5-20

SHIFT HOURS

MOVE TO HOLE 9:40 - 9:50

_____ TO _____

DRILL 10:00 - 11:00

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE " 11:20

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	S/V %	Gr %	Shape			
1				0.0 - 0.9 No recovery (probably cobbly)						
2				0.9 - 1.2 Boulder						
3				1.2 - 4.8 Till, clay coatings						
4			1.	4.8 - 6.0 Bedrock						
5				Boulders:						
6			2	.9 - 1.2 gabbro-diorite						
7				Matrix:						
8				1.2 - 4.8 gray clay and silt						
9				Clasts:						
10				1.2 - 3.0 pebbly	50	50	SR-SA			
11				3.0 - 3.5 pebbly + granules	50	50	SR			
12				3.5 - 4.5 pebbly	50	50	SR-SA			
13				4.5 - 4.8 pebbly	80	20	SA			
14				Bedrock:						
15				4.8 - 6.0m light gray-green chlorite-						
16				sericite schist (siltstone) moderate						
17				Schistosity. Minor carbonate and						
18				quartz veinlets 2%. Trace pyrite						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 1987

SHIFT HOURS

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-597 LOCATION BL 16E

GEOLOGIST MacNeil/Hend DRILLER Hong/Lind BIT NO. C068630 BIT FOOTAGE 641-70
C068633 0-23.

MOVE TO HOLE 1:30-2:15 (break winch cable/twin)

DRILL 2:15-4:00 ; 4:45-6:15

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER 4:00 - 4:45 Wait for water; 6:15 - 6:30 Pull rods replace bit;

~~MOVE TO NEXT HOLE 6:30-6:45 down lines; 6:45-7:30 Travel~~

Day Shift 7:20 - 11:55 Drill

11:10 - 12:10 Move to next Hb

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1		01		0-0.4 = Boulder-granodiorite • 0.4-21.4 = Till 21.4-23.1 Bedrock
2		02		0.4-21.4 <u>Till</u>
3		03		<u>Boulders</u> 8.5-8.7 granodiorite 9.9-10.0 granodiorite 12.9-13.1 granodiorite 14.1-14.2 schist 14.3-14.4 gabbro/diorite 17.2-17.3 diorite 18.3-18.5 diorite-gabbro
4		04		<u>Matrix</u> 0.4-2.0 brown (oxidized) fine sand and silt matrix - clay cements on pebbles 2.0-5.0 beige, fine sand and silt matrix - matrix very abundant from 3.0-5.0 5.0-5.5 grey gritty clay and fine sand matrix 5.5-18.3 grey, fine sand and silt matrix 18.3-21.4 abundant clay in matrix
5		05		<u>Clasts</u> 0.4-110.0 cobbles - clast composition - 60% volcanics/sediments and 40% granitoids (cobbles very abundant below 5.0m - very tough drilling) 110-21.4 cobbles; clast composition 70% volcanics/sediments; 30% granitoids
6		06		
7		07		
8		08		
9		09		
10		10		
11		11		
12		12		
13		13		
14				
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 1987

HOLE NO LDVT-597 LOCATION BL 16E

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS

MOVE TO HOLE _____

_____ TO _____

DRILL

TOTAL HOURS

MECHANICAL DOWN TIME _____

CONTRACT HOURS

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG					
21		14		21.4- 23.1 <u>Bedrock</u>: sandstone/siltstone: light grey-green; unconsolidated fine grained sandstone to "coarse" siltstone; locally Fe-stained; clay balls appear at 22.9m					
22		LDVT 997							
23		807							
24									
25				23.1 EOH					
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 25 19 87

SHIFT HOURS

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-598 LOCATION L18E / B.L.

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68632 BIT FOOTAGE 45.5-57.

MOVE TO HOLE 15:55-16:00

DRILL 16:10 - 17:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE Shift ends

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr %	Shape			
0				0.0 - 0.3 no recovery						
1			1	0.3 - 0.5 Organics						
2				0.5 - 10.8 Till						
3				Boulders 6.3-6.5						
4				6.8-6.9						
5				8.1-9.1						
6			2	10.8-12 Bedrock						
7				Boulders:						
8			3	6.3-6.5 Rhyolite						
9				6.8-6.9 Felsic						
10			4	8.1-9.1 Diorite						
11				Matrix						
12			5	0.5-9.0 Fine sand and silt						
13				9.0-9.1 Silt						
14			6	9.1-10.8 Silt and fine and medium grained sand						
15				Clasts: >1.7 mm						
16				pebbly 0.5-9.0	60	40	SR-SA			
17				pebbly 9.0-11.0	40	60	SR-SA			
18				Bedrock 10.8-12						
19				medium gray-dark gray (mudstone-siltstone), chlorite-sericite schist.						
20				Strong schistososity. Trace disseminated pyrite						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25 1987 HOLE NO LDVT-599A LOCATION BL 19E
 GEOLOGIST MacNeil DRILLER Howg BIT NO C66632 BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL 19:30 - 20:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 19:00 - 19:30 Travel to drill
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
0				0 - 1.6 No Return						
1				1.6 - 7.1 <u>Till</u>						
2				<u>Boulders</u>						
3			01	<u>Matrix</u>						
4				1.6 - 7.0 beige, fine sand and silt						
5			02	matrix; rare gritty clay						
6				balls and clay cutans on						
7			03	some pebbles						
8				7.0 - 7.1 grey, gritty clay matrix						
9			04	<u>Clasts</u>						
10				1.6 - 5.8 cobbles; clast composition:						
11			LDVT	65-70% volcanics and						
12			599	sediments						
13			Brx	30% granitoids						
14				5.8 - 7.0 pebbles; clast						
15				composition as from						
16				1.6 - 5.8						
17				7.1 - 8.5 <u>Bedrock</u> :- siltstone/						
18				mudstone :- dark grey;						
19				very fine grained; fissile						
20				to schistose; minor						
21				carbonate veins below						
22				8.0m; trace disseminated						
23				pyrite						
24				8.5m EOH						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-599 LOCATION L19E; BL

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68632 BIT FOOTAGE

MOVE TO HOLE 18:00 - 18:20

DRILL 18:20

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG					
1				0-1.0 No Return					
2				at @ 1.0 m, hit boulder - move					
3				rig ~ 1.5 m to alleviate problem of rods					
4				wedging off boulder; Hole redrilled					
5				as LDUT-599A on night shift					
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

CONTRACT HOURS

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-2.7				No Return - resistance to penetration, presence of cobbles suggests till
3.4-5.0				<u>Bedrock</u> : siltstone/mudstone dark grey (greenish); very fine grained; strongly schistose to fissile; 3-5% quartz-carbonate stringers and veinlets
5.0 EOH				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 25 19 87

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-600H LOCATION L 20E/ B.L. 4 meters west of hole
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB88632 BIT FOOTAGE 9.5-14

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68632 BIT FOOTAGE 9.5-14.

MOVE TO HOLE _____

DRILL 7:45-8:35

MECHANICAL DOWN TIME 8:40 - 9:40 Replacement of ruptured hydraulic hose

DRILLING PROBLEMS

OTHER _____

MOVE TO NEXT HOLE 9:40

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23/24 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-601 LOCATION BL 21E

GEOLOGIST MacNeil DRILLER Hwang BIT NO. CB68632 BIT FOOTAGE 0-4.5

MOVE TO HOLE 23:00-23:15 ; 23:45-24:30

DRILL 1:30-3:15 ; 4:00-5:30

MECHANICAL DOWN TIME 23:15-23:45 repair broken winch cable

DRILLING PROBLEMS

OTHER 24:30-1:30 Stump thru floor of drill-repair; wait for water slop

MOVE TO NEXT HOLE 3:15-4:00 wait for water

*New Bit and Sub *

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-1.0 No Return; 1.0-2.7=Sand-						
2				beige (oxidized), fine to medium						
3				grained; 2.7-6.9=Gravel-						
4				generally clast supported						
5				although medium to coarse						
6				sand is variably present;						
7				pebble sized clasts present to						
8				3.2 m and below 3.2, cobbles						
9				predominant; intersect						
10				intermediate volcanic boulder						
11				from 3.2-3.4, granodiorite						
12				boulder from 5.6-6.1 and						
13				siltstone(?) boulder from 6.2-6.4;						
14				6.9-8.0=Bedrock						
15				Boulders						
16				Matrix						
17				Clasts						
18				Bedrock: 6.9-8.0						
19				6.9-7.3 greywacke - grey; fine						
20				to medium grained (<1.5mm);						
				schistose - chloritic; sericitic;						
				granular appearance						
				7.3-8.0 siltstone/mudstone:-						
				grey-black; very fine						
				grained; fissile to schistose;						
				minor (<2%) carbonate						
				veinlets						
				8.0 EOH						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 24 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO. LDVT-603 LOCATION L23E/0+0

GEOLOGIST J. Robineau DRILLER D. Lind BIT NO. C86863 BIT FOOTAGE 12,6-19,

MOVE TO HOLE 14:00 - 14:05

DRILL 14:10 - 14:55

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

Rewashed 3X

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0,0-0,3 Organics						
2				3,0-5,0 Free clast, beige sand, (fine grained) fine and medium grained at 3,0 → with pebbles from 5,0.						
3				5,2-5,5 Gravel (without water)						
4				5,5-7,0 Bedrock						
5										
6				Matrix: No fine matrix						
7										
8				Clasts:						
9				5,0-5,2 Pebbly SR-SA 5/6 70% Gr.30%						
10										
11				Bedrock:						
12				5,5-7,0. Light green to gray sericite schist. Siltstone and fine grained sandstone. Schistosity is moderate.						
13				Trace disseminated pyrite, trace pyrrhotite, trace disseminated arsenopyrite arranged in L-tectonite form						
14										
15										
16										
17										
18										
19										
20										



REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 21 1987

HOLE NO LDVT-604 LOCATION L24E/0+0
GEOLOGIST BABINEAU DRILLER D. LIND BIT NO. C86628 BIT FOOTAGE 260-3'

SHIFT HOURS

MOVE TO HOLE 13:55-14:45

_____ TO _____

DRILL 15:10-16:35

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

OTHER

MOVE TO NEXT HOLE 17:00-

16:35-17:00 → waiting to move for D-4 (Tractor) which was building roads.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-0.3				Organics
0.3-5.0				Grey medium to coarse grain Sand + rounded clasts
5.0-6.5				Grey-beige fine gravel + Coarse sand (R+SR clasts)
6.5-9.0				grey medium-coarse sand Fine gravel (SR-SA)
9.0-9.8				No recovery
9.8-11.0				bedrock
				Boulders
				Matrix
				Clasts
				Bedrock: 9.8-11.0 Medium grey Fine grained Sericite schist. (Moderate cleavage). ≤ 5% white quartz veinlets

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 20, 21 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-605 LOCATION BL 25E

GEOLOGIST MacNeil/Baker DRILLER Hung/Lind BIT NO. CB69628 BIT FOOTAGE 0-12.5

MOVE TO HOLE

DRILL Jan 20 - 9:45-11:45 P.M.; Jan 21 - 10:10-10:50 A.M.

MECHANICAL DOWN TIME Jan 20 - 11:45 - burn wiring on motor; stop for night

DRILLING PROBLEMS Jan 21 - 7:00-10:10 A.M. - repair wiring

OTHER Jan 20 - 7:00-7:00 Final Set-up

MOVE TO NEXT HOLE

* New Bit * New Sub *

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG					
0	0.0000			<u>0.-2.3 Gravel</u>					
1	0.0000			<u>Boulders</u>					
2	0.0000			<u>Matrix</u>					
3	0.0000			- medium to coarse sand and granules					
4	0.0000			<u>Clasts</u>					
5	0.0000			- cobbles; 70% volcanics/sediments and 30% granitoid					
6	0.0000			<u>2.3-3.8 Sand</u>					
7	0.0000			- fine grained; beige - lightly oxidized; minor pebbles					
8	0.0000			<u>3.8-4.4 Gravel</u>					
9	0.0000			<u>Matrix</u>					
10	0.0000			- medium grained sand					
11	0.0000			<u>Clasts</u>					
12	0.0000			- pebbles; 50:50 volcanics/sediments; granitoids					
13	0.0000			<u>4.4-8.6 Sand</u>					
14	0.0000			<u>4.4-7.5</u> - fine to very fine grained sand; beige in color; minor thin pebbly seams					
15	0.0000			<u>7.5-8.6</u> medium to coarse grained sand some of which is oxidized to an ochre color					
16	0.0000			<u>8.6-10.5 Gravel</u>					
17	0.0000			<u>Boulders</u>					
18	0.0000			<u>9.3-9.5</u> - granite					
19	0.0000			<u>10.0-10.1</u> - gabbro					
20	0.0000			<u>Matrix</u>					
21	0.0000			<u>8.6-10.1</u> coarse sand and granule matrix to clast supported					
22	0.0000			<u>10.1-10.5</u> medium to coarse sand and granule matrix					
23	0.0000			<u>Clasts</u>					
24	0.0000			<u>8.6-8.9</u> - pebbles					
25	0.0000			<u>8.9-10.1</u> - cobbles - clast composition of 65-70% volcanics/sediments and 30% granitoids					
26	0.0000			<u>10.1-10.5</u> - pebbles - 75% volcanics/sediments (including 20% grey sericitic, chloritic meta-sediment) and 25% granitoids					
27	0.0000			<u>10.5-12.5 Bedrock</u> : Siltstone - Mudstone (sericitic schist); dark grey; fine grained; moderate to strong schistosity; common white quartz - much of which is in the schistosity					

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 24 19 87

HOLE NO L26E-606 LOCATION L26E/0+0 B.L.

GEOLOGIST J. BHBINER DRILLER D. LIND BIT NO. C868631 BIT FOOTAGE 19.6-38

SHIFT HOURS

MOVE TO HOLE 15:00-15:25

TO

DRILL 15:35-17:10

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0.0-1.0 Organics. 1.0-7.5 Free clast beige sand (fine grained), medium grained from 3.0, plus granules (2-3mm)						
2				7.5-8.3 Sand plus 30-40% pebbles						
3				8.3-17.2 Gravel (Maybe till coating on fragments from 10.5-7.)						
4				17.2-18.5 Bedrock						
5				Boulders						
6				11.1-11.3 Red Sandstone						
7				12.4-12.5 Diorite - gabbro						
8				13.3-13.4 Felsic Volc						
9			1	Matrix:						
10				7.5-8.3 Fine beige sand						
11			2	8.3-10.0 Medium and coarse beige- gray sand						
12			3	10.0-15.5 Rare and coarse beige- gray sand						
13			4	15.5-17.2 Fine gray-green sand and silt						
14				Clasts:						
15			5	7.5-8.3 = Pebbly SR-SA 5/8 70% Gr 30%						
16			6	8.3-10.0 = Cobbly SR-SA 5/8 70% Gr 30%						
17				10.0-12.7 = Pebbly SR-SA 5/8 80% Gr 20%						
18				12.7-13.8 = Cobbly-Pebbly SR-SA 5/8 80% Gr 20%						
19				13.8-16.0 = Pebbly SR-SA 5/8 80% Gr 20%						
20				16.0-17.2 = Pebbly - SA 5/8 90% Gr 10%						

Bedrock.

Dark gray and medium gray sericite schist, siltstone and fine sandstones. Moderate schistosity. 10% white to gray carbonate and quartz veinlets. Trace disseminated pyrite, pyrrhotite and arsenopyrite. Pyrrhotite also in small (trace) veinlets.

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 24 19 87

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-611 LOCATION L26E / 2+00N

GEOLOGIST J. Bobineau DRILLER D. Lind BIT NO. C868631 BIT FOOTAGE 38.1 - 44.6

MOVE TO HOLE 17:30-17:35

DRILL 17:40-18:20

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 18:30

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN. 21 1987 HOLE NO LDVT-612 LOCATION L25E/2+00N
GEOLOGIST J. BABINEAU DRILLER D. LIND BIT NO. CB46628 BIT FOOTAGE 12.5-17.
SHIFT HOURS _____
_____ TO _____
MOVE TO HOLE 11:15-11:40
TOTAL HOURS _____
DRILL 11:45-12:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
CONTRACT HOURS _____
OTHER _____
MOVE TO NEXT HOLE 12:55-13:05

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0,0-4,5 = Beige medium to coarse grained Sand + Fine gravel. 4,3-4,5 = Beige sandy till? (no coating, SR clasts, sandy matrix, no fine material $\therefore$ probably Sand). 4,5-6,0 = Bedrock
2				
3				Boulders.
4				
5				
6				Matrix:
7				
8				
9				
10				
11				clasts:
12				
13				
14				Bedrock: Medium to light grey, fine grained Sericite schist.
15				Rare white carbonate veinlets. Trace of disseminated
16				pyrite. Mudstones and Siltstones
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 21, 22 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-613 LOCATION L 24 E ; 200 N

GEOLOGIST Babincau/Hor/Nei DRILLER Lind/Howsy BIT NO. CB 68638 BIT FOOTAGE 37.0-49.0

MOVE TO HOLE 17:00-17:30

DRILL 17:30-17:45; 19:30-20:45; 23:30-24:30; Jan 22-1:15-2:45; 3:30-6:30

MECHANICAL DOWN TIME 17:45-19:30 Compressor - Fuel/starting problems.

~~DRILLING PROBLEMS~~ 21:00-22:30 - steering on D-4

OTHER 20:45-21:00; 22:30-23:30; 24:30-1:15; 2:45-3:30 - wait for water

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0 - 2.3 Poor recovery - resistance to penetration indicates cobbly gravel
2.3				2.3 - 10.6 <u>Gravel</u>
				<u>Boulders</u>
				5.3-5.5 intermediate volcanic
				7.6-7.8 diorite
				9.8-10.1 mafic volcanic or gabbro
				<u>Matrix</u>
				2.3-7.0 medium to coarse sand is present in minor amounts but gravel is generally clast supported
				7.0-7.3 coarse to granular sand matrix
				7.3-10.6 - as from 2.3-7.0
				<u>Clasts</u>
				- abundant cobbles
				- From 2.3 - ~ 8.0, clast composition of 65% volcanics/sediment and 30-35% granitoids; below 8.0 m, approximately 70-75% volcanics/sediments and 25% granitoids
10.6				10.6 - 12.0 <u>Bedrock</u> - Siltstone -
				dark grey; very fine grained; strongly schistose to fissile; sericitic/chloritic foliation planes; a thin quartz-carbonate vein is present at 10.7 m
12.0				12.0 m EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24 1987

SHIFT HOURS

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-614 LOCATION L23E/200N

GEOLOGIST J. BABINEAU DRILLER D. LIND BIT NO. CB 6063 BIT FOOTAGE 5.7-12.6

MOVE TO HOLE 12,40-13:00

DRILL 13:15-13:55

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 14:00-14:05

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0-0.3 = Organics. 0.3-5.3 = Fine grained Free-clast beige slightly oxidized Sand (grey from 2.0) with small pebbles and granules from 3.0. 5.3-6.9 = bedrock.
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				Bedrock:
12				Moderately schistose dark to light gray
13				Mudstones + Siltstones (Sericite- rich), 10% dissemin. Fe-carbonates.
14				Trace of pyrite (locally up to 10%)
15				5.5-5.6 = Rich in white carbonate veinlets.
16				5.8 = Pyrite bearing Quartz- Calcite veinlet (2 cm.)
17				6.3-6.5 = white carbonate + grey Qtz veinlets (50%) with trace of arsenopyrite.
18				6.7-6.9 = 10-20% of same veinlets with trace of dissemin. arsenopyrite + pyrrhotite
19				
20				

HOLE NO LDVT-616 LOCATION LZIE/2400 N
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868630 BIT FOOTAGE 23.2-29.3
MOVE TO HOLE 9:15-9:20
DRILL 9:25-10:20
MECHANICAL DOWN TIME 9:35-9:50 machine maintenance
DRILLING PROBLEMS _____
OTHER Wait for tractor to pull drill 10:30-11:10
MOVE TO NEXT HOLE 11:10

CONTRACT HOURS

HOLE NO LDVT-616 LOCATION LZIE/2400 N
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868630 BIT FOOTAGE 23.2-29.3
MOVE TO HOLE 9:15-9:20
DRILL 9:25-10:20
MECHANICAL DOWN TIME 9:35-9:50 machine maintenance
DRILLING PROBLEMS _____
OTHER Wait for tractor to pull drill 10:30-11:10
MOVE TO NEXT HOLE 11:10

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 26 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-617 LOCATION L20E/2+00N

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868630 BIT FOOTAGE 15.2-23.2

MOVE TO HOLE 7:50-7:55

DRILL 8:05-8:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER Wait for D7 to complete road to next hole.

MOVE TO NEXT HOLE 9:15

DEPTH IN ETRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr %	Shape				
1				0.0-1.5 Organics							
2				1.5-6.3 Till							
3				6.3-8.0 Bedrock							
4			1	Boulders:							
5				none							
6			2	Matrix:							
7				1.5-2.3 brown fine sand							
8			3	2.3-6.3 gray-green silt and fine sand							
9				Clasts:							
10				1.5-4.9 pebbly	70	30	SA				
11				4.9-5.1 pebbly	80	20	SA				
12				5.1-6.3 pebbly	90	10	SA				
13				Bedrock: 6.3-8.0							
14				dark gray-medium gray chlorite-							
15				carbonate-sericite schist (siltstone							
16				fine grained sandstone) moderate							
17				schistosity. Veinlets of carbonate							
18				and quartz, 10%. Trace pyrite							
19				7.7-7.9 Veinlets of carbonate							
20				and quartz, 30%, trace							
21				arsenopyrite in veinlets							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25 1987

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-618 LOCATION L 19E; 2+00N

GEOLOGIST Mac Neil DRILLER Howe BIT NO. C368632 BIT FOOTAGE

MOVE TO HOLE 20:45-21:00

DRILL 21:00 - 21:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1			01	On initial attempt no recovery was obtained until bedrock was intersected at 1.0m. Bedrock was drilled and rig moved n 1.5m in an attempt to sample overburden. Till was intersected from 0-1.0 on rd drill but shallow hole depth did not allow good or complete recovery - only a small till sample (LDVT-618-01) was obtained
2			LDVT 618 Brx	
3				0 - 1.0 <u>Till</u>
4				<u>Boulders</u>
5				<u>Matrix</u> - beige (oxidized), fine sand
6				<u>Clasts</u> - pebbles
7				1.0 - 2.5 <u>Bedrock</u> :- mudstone - dark grey to black; very fine grained; fissile
8				2.5 EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 26 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-623 LOCATION L17E; 4+00N

GEOLOGIST Mac Neil DRILLER Howe BIT NO. CB68630 BIT FOOTAGE 4-6

MOVE TO HOLE 2:30-2:45

DRILL 2:45-3:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN ETRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-0.9				No Return
0.5-0.8				Resistance to penetration suggests till - unable to recover any material for sample
0.8-2.0				<u>Bedrock</u> : sandstone/siltstone:- fine grained (2.5m), medium green, granular, schistose sandstone with beds of very fine grained, grey-green siltstone; 2% quartz - carbonate concretions; trace to 0.1% disseminated pyrite ± pyrrhotite
2.0				EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-624 LOCATION LIBE; 4+00N

GEOLOGIST MacNeil DRILLER Hawg BIT NO. B68630 BIT FOOTAGE 0-4.0

MOVE TO HOLE 24:30-24:45

DRILL 24:45-2:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

*New Bit

DEPTH IN FEET	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-1.5 Poor Return - organics; fine, beige (oxidized) sand with minor clay partings						
2			01							
3			LDVT 624	1.5-2.3 <u>Till</u> :- wash hole 3 times to obtain sample - sample includes some overlying sand and also bedrock cuttings						
4			Bx							
5				<u>Boulders</u>						
6				<u>Matrix</u>						
7				1.5-2.3 - beige (slightly oxidized) fine sand and silt matrix						
8				<u>Clasts</u>						
9				1.5-2.3 - cobbly; clast composition:-						
10				n 75-80% volcanics/sediments (including gray to black sedimentary schist)						
11				20% granitoid						
12				2.3-4.0 <u>Bedrock</u> :- veined mudstone:-						
13				host is dark gray to black, very fine grained sediment;						
14				highly schistose and sheared - slickensides along foliation;						
15				sericite common along slip planes; possible development of graphite in the mudstone; bedrock is						
16				highly veined with n 70% white quartz - carbonate						
17				vein material (predominantly quartz with 15-20% carbonate); trace disseminated						
18				cubic pyrite in vein material						
19				- below n 3.5 sediment appears slightly coarser (siltstone/mudstone) and vein material forms <20% of sample						
20				4.0m EOH						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-625 LOCATION L19E; 4+00N

GEOLOGIST MacNeil DRILLER Howg BIT NO. C868632 BIT FOOTAGE

MOVE TO HOLE 21:45-22:15

DRILL 22:15-24:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-1.4 No Return - resistance to penetration suggests till						
2			01	1.4-2.2 <u>Till</u> *						
3				<u>Boulders</u>						
4			LDVT 625 8fx	<u>Matrix</u> 1.4-2.2 beige (oxidized) fine sand and silt matrix						
5				<u>Clasts</u>						
6				0-2.2 cobbles; clast composition:-						
7				25-30% grey fissile/schistose siltstone and/or mudstone						
8				35% volcanics/sediments						
9				35% granitoids						
10				2.2-4.0 <u>Bedrock</u> :- greywacke:						
11				medium grey color; fine grained with a poorly granular appearance;						
12				moderately calcareous - estimated 5-8% disseminated calc. to;						
13				trace very finely disseminated pyrite						
14				4.0 EOH						
15										
16										
17										
18										
19										
20										

* wash hole 2 times to obtain till sample

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 26 19 87

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-626 LOCATION L20E/4+00N

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68630 BIT FOOTAGE 29.3-41.9

MOVE TO HOLE 11:10 - 11:35

DRILL 11:40 - 12:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 13:00

DEPTH IN ETRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG				
					V/S %	Gr %	Shape	
1			1	0.0-0.5 no recovery 0.5-11.1 Till (plus organics) large clay balls				
2			2	11.1-12.6 Bedrock				
3			3	Boulders				
4			4	none				
5			5	Matrix:				
6			6	0.5-11.1 light gray-green fine sand and silt.				
7			7					
8			8	Clasts: 71.7mm 0.5-3.5 granule (few) 3.5-11.1 pebbly	80	20	SR-SH	
9			9					
10			10					
11			11	Bedrock 11.1-12.6				
12			12	light gray sericite-chlorite-				
13			13	carbonate schist (siltstone-fine				
14			14	grained sandstone) moderate				
15			15	schistosity. Trace pyrite.				
16			16	Carbonate veinlets, 5%.				
17			17					
18			18	Fast return of till				
19			19					

REVERSE CIRCULATION DRILL HOLE LOG

DATE JAN 24 1987 HOLE NO LDVT-629A LOCATION L24E/400N 2 METERS AT 1280
GEOLOGIST J. BABINEAU DRILLER D. LIND BIT NO. C868631 BIT FOOTAGE 20-5.7
SHIFT HOURS
____ TO ____
MOVE TO HOLE 9:05-9:25
TOTAL HOURS

DRILL 9:50-12:25
MECHANICAL DOWN TIME _____
CONTRACT HOURS

DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 12:40-13:00

9:25-9:30 → Water tank tipped over + water hoses frozen
10:35-11:00 → Wait for water
12:25 → Hole abandoned: hard to drill, losing water, time and high probability of breaking rods

DEPTH IN ETRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG METRES
0				0.0-1.2 = No recovery (Probably Cobbly-Pebbly gravel). 1.2-3.0 = Pebbly gravel. 3.0-3.7 = Poor recovery (Cobbly gravel). 3.7-5.0 = Pebbly gravel (Poor recovery from 3.7 to 4.0). 5.0-5.5 = No recovery (Cobbly gravel). 5.7 = END
1				Boulders:
2				2.7-3.0 = Quartzite
3				5.6 - = Rhyolite
4				Matrix:
5				1.2-2.7 = oxidized, rusty brown
6				3.7-5.5 = grey sandy.
7				Clasts:
8				1.2-2.7 = Pebbley, SR-SA
9				lot of Fe-carbonate schists
10				3.7-5.5 = Pebbley, SR-SA
11				HOLE STOPPED AT 5.7
12				
13				
14				
15				
16				
17				
18				
19				
20				

REVERSE- CIRCULATION DRILL HOLE LOG

DATE JAN 21 1987

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-630

HOLE NO LDVT-630 LOCATION L25E / 4+00 S

GEOLOGIST J. BARINEAU DRILLER D. LIND

GEOLOGIST J. BARINCAU DRILLER D. LIND BIT NO. CB 6862B BIT FOOTAGE 17.0-26.0

MOVE TO HOLE 12:55-13:05

DRILL 13:10-13:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 13:55-14:45

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0,0-2,0 = Poor recovery. 2,0-7,0 = Medium grained beige Free-clast sand (grey from S,S). 7,0-7,5 = Gravel + coarse beige-grey Sand. 7,0-7,5 = beige Sand + SR-SA clasts (reworked till or <u>sand</u> ?), 7,5-9,0 = bedrock.
1				Boulders; 1,5-
2				
3				
4				
5				
6				Matrix: 7,0-7,5 = Grey Medium grained sand
7				
8				
9				
10				clasts, 7,0-7,5. Pebbly SR-SA
11				S/V GR 70% 30%
12				
13				Bedrock: 7,5-9,0
14				Black to dark grey mudstones + grey siltstones / Sericite (Sericite). Poorly to moderate developed Schistosity
15				≤ 10% quartz + calcite (white to grey) veinlets,
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23 1987

SHIFT HOURS

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-631 LOCATION L26E; 4+00N

GEOLOGIST MacNeil DRILLER Hewg BIT NO. _____ BIT FOOTAGE _____

MOVE TO HOLE 18:30-19:30

DRILL 21:00-23:00

MECHANICAL DOWN TIME 20:30-21:00 Stalled compressor

DRILLING PROBLEMS

OTHER 19:30 - 20:30 Out of Fuel, blood lines, refuel

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-2.0 No Return (iced hose) - assumed to be sand due to lack of resistance to penetration; 2.0-5.1 Sand-beige in color, fine grained
1				
2				5.1 - 5.3 <u>Till</u>
3				<u>Boulders</u>
4				<u>Matrix</u>
5				5.1-5.3 beige fine sand and silt
6				<u>Clasts</u>
7				5.1-5.3 pebbles; clast composition:- 45-50% grey schist (mudstone, siltstone) 30% granitoids 20% volcanics/sediments
8				5.3-6.5 <u>Bedrock</u> :- siltstone :- grey to black; very fine grained; finely schistose to fissile; minor calcite stringers - rock itself is also moderately calcareous; trace disseminated pyrite
9				6.5 EOH
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 26 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT. HOURS

HOLE NO LDVT-643 LOCATION L 19E ; 5+86 N
GEOLOGIST MacNeil DRILLER Hwang BIT NO. CB 68630 BIT FOOTAGE 11-2-15.2
MOVE TO HOLE 5:15 - 5:45
DRILL 6:30 - 7:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 5:45 - 6:30 wait for water sleep (completion of move)
MOVE TO NEXT HOLE _____

GEOLOGIST MacNeil DRILLER Hwang BIT NO. CB 68630 BIT FOOTAGE 11-2-15-2

MOVE TO HOLE 5:15 - 5:45

DRILL 6:30 - 7:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS

OTHER 5:45-6:30 unit low water sleep (completion of move)

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-0.9 No Return
1				0.9-1.8 <u>Sand</u> - beige (oxidized); fine grained;
2				1.8-3.0 <u>Till</u> :
3				<u>Boulders</u>
4				<u>Matrix</u>
5				1.8-3.0 beige (oxidized to 2.9m) fine sand and silt matrix
6				<u>Clasts</u>
7				1.8-3.0 - cobbles; clast composition - 70% volcanics / sediments 30% granitoids
8				3.0-4.0 <u>Bedrock</u> :- siltstone - grey; fine to very fine grained; moderately schistose; indistinctly sandy-granular texture; trace disseminated pyrite
9				4.0m EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 26 1987

HOLE NO LDVT-644 LOCATION

GEOLOGIST Mac Neil DRILLER Howg BIT NO. CB 68630 BIT FOOTAGE 9.2-11.2

SHIFT HOURS

MOVE TO HOLE

 TO

DRILL 4:45 - 5:15

TOTAL HOURS

MECHANICAL DOWN TIME

CONTRACT HOURS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1		LDVT 044 Brx		* unable to reach picketed site due to soft ground*
2				0-1.1 No Return - no resistance to penetration - organics
3				
4				1.1 - 2.0 <u>Bedrock</u> :- sandstone(?) - light to medium greenish gray; grain size appears to be approximately 1.0 mm; sample is moderately schistose with 2-4% quartz-carbonate stringers, and 0-1% pyrite disseminated in veins and host rock
5				
6				
7				
8				
9				
10				2.0 m EOH (only 0.9 m of bedrock drilled as road was too narrow to bring water sloop alongside the drill)
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 26 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-645 LOCATION L17E ; 6+00N

GEOLOGIST Mac Neil DRILLER Howe BIT NO. CB 16430 BIT FOOTAGE 6-9.2

MOVE TO HOLE 3:00 - 3:15

DRILL 3:15 - 4:00 ; 4:30 - 4:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER 4:00 - 4:30 wait for water sleep

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1		01		0-1.4 No Return
2		LOUT		- 0-0.4 No resistance to penetration - assumed to be organics; 0.4-1.4 - cobbles present - lack of return and presence of cobbles may suggest till but on washing hole (3 times) the only return obtained is predominantly fissile mudstone/siltstone chips with little matrix; the section from 0.4-1.4 may be till but could also represent a bedrock rubble - only a very small sample obtained
3		645		
4		Brx.		
5				
6				
7				
8				
9				
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11				
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REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-661 LOCATION L 24 ; 10+00.5

GEOLOGIST MacNeil DRILLER Hewig BIT NO. CB664633 BIT FOOTAGE 56.4-62.9

MOVE TO HOLE

DRILL 11:00-12:15

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

Note Change in
Coordinates from that
prepared on map
due to presence of

OK

from original site

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0-1.0 No Return. 1.0-1.6 = Agamie creek and oxidized clay. 1.6-2.0 = grey, medium grained sand. 2.0-5.3 3 meters at 1280
2				5.3-6.5 = Bedrock
3		01		2.0-5.3 <u>Till</u>
4				<u>Boulders</u>
5		02		2.9-3.1 - intermediate volcanic
6				<u>Matrix</u>
7				2.0-3.6 grey, fine sand and silt matrix
8				3.6-4.4 varying proportions of grey gitty clay in matrix
9				4.4-5.3 grey gitty clay matrix
10				<u>Clasts</u>
11				2.0-2.9 pebbles - clast composition of 60-70% volcanics/sediments, 30-40% granitoid
12				3.1-5.3 cobbles - clast composition of 60% volcanics/sediments and 40% granitoids
13				5.3-6.5 <u>Bedrock</u> :- silicified(?)
14				sandstone :- medium grey color; well foliated; sample appears moderately silicified thus obscuring texture although some rock chips appears to possess a relatively good sandy sedimentary texture - this appears most prominent below 6.0m where sample appears less silicified; pyrite is present in the sample in trace amounts
15				6.5m EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 1986

SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-662 LOCATION L25E/10+00 S

GEOLOGIST K. McNelis DRILLER J. Howe BIT NO. CB69633 BIT FOOTAGE 50.4-56.4

MOVE TO HOLE 10:00-10:15

DRILL 10:15-11:00

MECHANICAL DOWNTIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-2.0 = No return, probably organics and sand.
2				2.0-3.5 = Brown, oxidized, coarse to granular sand
3				3.5-4.6 <u>Till</u>
4				<u>Boulders</u>
5				<u>Matrix</u>
6				3.5-4.6 = Beige, fine sand and silt matrix
7				<u>Clasts</u>
8				3.5-4.6 = Pebbles with clast composition of 55% volcanics/sediments and 40 to 45% granitoids.
9				4.6-6.0 <u>Bedrock</u>
10				Light to medium grey, fine grained sericite schist displaying schistose texture. Soft, sericitic alteration with some chips displaying an indistinct sandy texture possibly of sedimentary origin. Local concentrations of disseminated pyrite (0.1-0.3%) up to 2mm size. Possible trace pyrrhotite. Minor local quartz-carbonate stringers/alteration exhibited. Brown oxidation of Fe-carbonates(?), apparently associated with quartz-carbonate veining, was observed below 5.6 metres. Veining appears to constitute ~20% of this sample interval.
11				6.0 E.O.H.

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 19 87

SHIFT HOURS

_____ **TO** _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-663 LOCATION L 26 E ; 10+00 S

GEOLOGIST K MacNeil DRILLER J. Huang BIT NO. CBL8633 BIT FOOTAGE 43.4-50.4

MOVE TO HOLE 6:10-8:45 but winch on D-7 not working

DRILL 8:45 - 10:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-4.0 No Return. No resistance to penetration to 2.0 - ester sand(?). At 2.0 intersect cobbles - losing water into formation so cobbly gravel assumed. From 3.0-4.0, little resistance to penetration - pebbly gravel or sand.
2				
3				
4				4.0-4.6 = Gravel with a coarse granular sand matrix and pebble sized clasts.
5				4.6-5.2 = Cobbly gravel with a coarse granular sand matrix. 5.2-5.5 =
6				Clast supported cobbly gravel
7				
8				5.5-7.0 <u>Bedrock</u> :- greywacke/sandstone:
9				grey-green; grain size of
10				~1.0mm; sandy-granular texture; moderately schistose;
11				minor carbonate stringers - generally paralleling schistosity
12				7.0 EOH
13				
14				
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 27 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-665 LOCATION L28E/9+75S

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68633 BIT FOOTAGE 32.3-37.1

MOVE TO HOLE 3:35-3:40

DRILL 3:45-4:25

MECHANICAL DOWN TIME

DRILLING PROBLEMS no recovery on first try, move drill and redrill

OTHER

MOVE TO NEXT HOLE 4:35

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	Ys %	Gr %	Shape				
1				0.0-4.00 no recovery, redrill							
2				0.0-1.5 Organics							
3				1.5-3.2 Till, clay balls,							
4				2.9 sand layer							
5				Boulders:							
6				none							
7				Matrix:							
8				1.5-3.2 brown coarse sand							
9				Clasts:							
10				1.5-3.0 little recovery							
11				3.0-3.2 pebbly	70	30	SR-R				
12				Bedrock: 3.2-4.8							
13				light gray to pale gray sericite-							
14				carbonate schist (siltstone-							
15				fine-grained sandstone). Very							
16				weak schistosity. Veinlets of							
17				carbonate and quartz, 15%. Trace							
18				euhedral pyrite. Abundant							
19				sericite.							
20				White clay balls in sample,							
21				possible contamination from							
22				water tank.							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 27 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-666

LOCATION L29E/9+50S

GEOLOGIST R. Leber

DRILLER D. Lind

BIT NO. C868633

BIT FOOTAGE 27.6-32.3

MOVE TO HOLE 2:25 - 2:30

DRILL 2:35 - 3:10

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 3:35

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	%S %	Gr %	Slope			
0.0 - 1.9				Organics, reddish brown sand						
1.9 - 2.2				Till						
2.2 - 4.7				Bedrock						
				Boulders:						
				none						
				Matrix:						
				1.9-2.2. brown fine sand						
				Clasts > 1.7mm						
				few						
				Bedrock 2.2-4.7						
				light gray sericite-carbonate-						
				schist (siltstone-fine grained						
				sandstone). Weak schistosity. Trace						
				pyrite in euhedral and disseminated						
				form. Veinlets of carbonate-quartz						
				2%. Brown staining around						
				some euhedral crystals.						
				2.3 - 2.35 Fe-rich layer. Brown						
				staining, probably Fe-carbonate						
				schist.						
				4.6-4.7 darker gray with						
				less veinlets.						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 27 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-667 LOCATION L30E/9+50S

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68633 BIT FOOTAGE 23.1-27.8

MOVE TO HOLE 11:10 - 12:10

DRILL 12:15 - 1:00 wait for water 1:55 - 2:05

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 2:25

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
					V/S %	Gr %	Shape			
1				0.0-0.5 Organics						
2				0.5-1.0 Dark brown mud						
3			1	1.0-1.8 Till, clay balls, clay coatings						
4				1.8-4.5 Bedrock						
5				Boulders						
6				none						
7				Matrix:						
8				1.0-1.8 light gray coarse grained silt						
9				and fine grained sand						
10				Clasts:						
11				1.0-1.8 pebbly-granules	70	30	SR-SA			
12				Bedrock: 1.8-4.5						
13				light to dark gray sericite-						
14				carbonate schist (fine grained						
15				sandstone). Weak schistosity.						
16				5% disseminated euhedral pyrite						
17				Veinlets of carbonate and quartz						
18				15%. More pyrite in the upper						
19				part of the bedrock. Poor						
				recovery of bedrock.						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 1987

SHIFT HOURS

_____to _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-668 LOCATION L31E ; 9+25.5

GEOLOGIST Mac Neil DRILLER Hewg BIT NO. CB 68633 BIT FOOTAGE 62.9-64.9

MOVE TO HOLE 12:15-1:15

DRILL 1:15 - 1:45 ; 2:30 - 3:00

MECHANICAL DOWNTIME

DRILLING PROBLEMS

OTHER 1:45-2:30 wait for winter sleep (moving time)

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-0.6 No Return (till at surface). 0.6-2.0 = Poor, intermittent return
1				
2			01	0-2.4 <u>Till</u>
3				<u>Boulders</u>
4				<u>Matrix</u>
5				0.6-2.0 - beige-brown (oxidized) fine sand and silt
6				2.0-2.4 matrix appears medium to coarse grained - may be clast cutting or bedrock rubble more so than natural till matrix
7				<u>Clasts</u>
8				0-2.4 - cobbles; clast composition - 70-80% volcanics / sediments (including abundant mudstone and siltstone), and 20-30% granitoids
9				
10				
11				
12				
13				2.4-4.0 <u>Bedrock</u> :- siltstone / graywacke :- medium grey; very fine grained; soft & fissile; minor (2-4%) carbonate stringers parallel to foliation, and local concentrations of carbonate disseminated within sample
14				
15				
16				
17				
18				4.0m EOH
19				
20				

→ Check sample maybe
ATION DRILL HOLE LOG 699

HOLE NO LDVT-669 LOCATION L32 E/9+255
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. 668634 BIT FOOTAGE 0-4.0
MOVE TO HOLE _____ 15:50 - 15:55
DRILL _____ 16:00 - 16:40
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____ 17:35

MOVE TO HOLE

DRILL

MECHANICAL DOWN TIME

OTHER

MOVE TO NEXT HOLE 17:35

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 28 19 87 HOLE NO LDVT-670 LOCATION L33E/9+00S
 GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868633 BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE 14:45-14:50
 _____ TO _____ DRILL 14:55-15:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 15:50-15:55

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr %	Shape			
1				0.0-1.0 no recovery						
2				1.0-1.8 Fine grained brown sand						
3				1.8-2.1 Boulder						
4				2.1-2.6 Gravel						
5				2.6-3.1 Boulder						
6				3.1-4.6 Bedrock						
7				Boulders						
8				1.8-2.1 Gabbro.						
9				2.6-3.1 Chlorite schist						
10				Matrix						
11				1.0-1.8 fine grained brown sand						
12				2.1-2.6 coarse brown sand						
13				Clasts:						
14				2.1-2.6 pebbly	90	10	SR-SA			
15				Bedrock 3.1-4.6						
16				light gray sericite carbonate schist						
17				(sandstone). Moderate schistosity. Pyrite						
18				staining 10%. Trace euhedral and						
19				disseminated pyrite. Veinlets of						
20				carbonate 2%.						

HOLE NO. LDVT-671 LOCATION L34 E/ 9+005
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868633 BIT FOOTAGE _____
MOVE TO HOLE 13:50 - 13:55
DRILL 14:00 - 14:35
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 14:45

CONTRACT HOURS

HOLE NO LDVT-671 LOCATION L34 E/ 9+005
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868633 BIT FOOTAGE _____
MOVE TO HOLE _____ 13:50 - 13:55
DRILL _____ 14:00 - 14:35
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____ 14:45

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 28 19 87

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-672 LOCATION L35E/9100S

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868633 BIT FOOTAGE _____

MOVE TO HOLE 11:40-11:50

DRILL 11:55-12:05 13:15-13:45

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS 12:05-12:45 coupling broke

OTHER 12:45-1315 wait for wafer-

MOVE TO NEXT HOLE 13:50

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 28 19 87

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-673 LOCATION L36E/9+00S

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68633 BIT FOOTAGE

MOVE TO HOLE 10:40-10:45

DRILL 10:50 - 11:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS

OTHER _____

MOVE TO NEXT HOLE 11:40

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 28 1987 HOLE NO LDVT-674 LOCATION L37E/9+00S (15m west of hole)
 GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68633 BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE 7:20-8:50
 _____ TO _____ DRILL 8:55-9:00 : too cobbly, more drill 9:15-10:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS Stuck rod 9:20-9:35
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE 10:40

DEPTH IN ETRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr %	Shape				
1				0.0-1.6 no recovery							
2				1.6- 6.3 Till, clay balls, clay coatings							
3				Boulder: 4.9-5.0							
4			1	6.3-7.8 Bedrock							
5				Boulders:							
6			2	4.9-5.0 Diorite							
7				Matrix:							
8			3	1.6-6.3 light gray-green fine sand							
9				Clasts >1.7mm							
10				1.6-3.5 pebbly	80	20	SH				
11				3.5-5.1 cobbly	60	40	SH+H				
12				5.1-5.9 pebbly	80	20	SH+H				
13				5.9-6.3 pebbly	90	10	A-SH				
14				Bedrock: 6.3-7.6							
15				medium gray chlorite-sericite-							
16				schist (fine grained sandstone).							
17				Moderate to weak schistosity.							
18				Trace pyrite. Veinlets of							
19				carbonate 3%. Soft easy to							
20				drill through							
21				7.6-7.8 dark gray sericite-schist,							
22				same as above, but more							
23				competent.							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 19 86

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LPVT-075 LOCATION L38E/9+00S

GEOLOGIST K. MacNeil DRILLER J. Howard BIT NO. CB68633 BIT FOOTAGE 66.9-73

MOVE TO HOLE 3:00-4:00 am

DRILL 5:00 - 6:45 am

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER 4:00-5:00 am=wait for water sleep

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
0				0-1.0 No Return						
1			01	1.0-5.5 <u>Till</u>						
2				<u>Boulders</u>						
3			02	1.8-2.0 = feldspar porphyry						
4				2.1-2.3 = granodiorite						
5			03	<u>Matrix</u>						
6				1.0-3.1 = Grey, fine sand and silt matrix						
7			04	3.1-5.0 = Grey, gritty clay with fine sand an silt matrix.						
8				5.0-5.5 = Grey, gritty clay matrix.						
9				5.5 = Grey, fine sand & silt matrix.						
10				<u>Clasts</u>						
11				1.0-5.0 = Cobbles (very cobbly below 2.0) with 60% volcanics/sediments and 40% granitoids clast composition						
12				5.0-5.5 = Cobbles with 80% volcanics/ sediments and 20% granitoids clast composition						
13				5.5-7.0 <u>Bedrock</u> : Siltstone						
14				Exhibits grey, very fine grained, fissile, to strongly schistose texture. Soft sericite/chlorite/Carbonate alteration is apparent with ~10-12% disseminated calcite. Appears slightly coarser below ~6.3m; possibly a grey wacke.						
15				7.0 E.O.H.						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-676 LOCATION L39E; 9+005

GEOLOGIST Leber/MacNeil DRILLER Lind/Haug BIT NO CB66634 BIT FOOTAGE 4.0-15.0

MOVE TO HOLE 17:35-18:05

DRILL 18:05-19:00; 19:15-20:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER 19:00-19:15 Shift change

MOVE TO NEXT HOLE

DEPTH IN ETRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-1.3 No Recovery. 1.3-1.5 = brown, oxidized sand. 1.5-9.6 Till. 9.6-11 = Bedrock						
2			01	1.5-9.6 Till						
3				Boulders						
4			02	3.2-3.3 sandstone						
5				3.8-3.9 " "						
6				4.0-4.4 " "						
7			03	5.5-5.7 diorite						
8				Matrix						
9			04	1.5-6.0 grey, fine sand and silt						
10				6.0-6.9 gritty to non-gritty clay						
11			05	* 7.0-7.2 pebbles, non-gritty, grey, compact clay matrix						
12				7.2-7.5 grey gritty clay						
13			06	7.5-8.2 very slightly gritty to non-gritty grey clay						
14				* 8.2-8.9 grey-buff, compact clay containing very minor grit						
15				8.9-9.6 grey, fine sand and silt						
16				Clasts						
17				1.5-5.0 pebbles; clast composition of 70-80% volcanics/sediments and 20-30% granitoids						
18				5.0-9.6 cobbly - cobbles/clasts are not abundant in clay rich sections; from 8.9-9.6, clast composition of 80% volcanics/sediments and 20% granitoids						
19				9.6-11.0 Bedrock:- greywacke(?) grey-green; fine to very fine grained; strongly schistose; soft - chloritic and sericitic; 3-5% calcite veins; minor folding/crenulation of schistosity visible in some chips						
20				11.0 m EOH						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-677 LOCATION L40E; 9+00.5

GEOLOGIST K MacNeil DRILLER J Howg BIT NO. CB 66634 BIT FOOTAGE 15.0-18.6

MOVE TO HOLE

DRILL 8:45-9:15 ; 10:45-12:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER 9:15-10:45 Wait for water

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-2.5 No Return - till indicated by the presence of cobbles/boulders which also results in water loss. 2.5-2.9 - poor return - not enough material to sample
2				
3				2.9-3.6 Bedrock :- intermediate volcanic - light to medium green; fine grained, equigranular texture; massive to poorly foliated; 5-10% disseminated carbonate - calcite(?)
4				
5				
6				
7				3.6 EOH - Hole abandoned at 3.6 m due to loss of too much water considering 1.5 hr. water haul
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 29 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-678 LOCATION L41E; 9+00S

GEOLOGIST MacNeil DRILLER Hawig BIT NO. CB62634 BIT FOOTAGE 10.6-30.6

MOVE TO HOLE

DRILL 2:45 - 5:30

MECHANICAL DOWN TIME 5:30 - 6:00 Tongue on sleep broken - can't haul water

DRILLING PROBLEMS

OTHER 12:45 - 2:45 wait for D-4 to haul rig - gone for water; 6:00 -

MOVE TO NEXT HOLE 6:30 Traveled

Day Shift - Jan 29 - Down all day - Fix sleep

Night Shift - Jan 29 - 7:15 - 7:45 Travel

7:45 - 8:30 startup; repair sock, roof

8:30 - 10:00 Drill

DEPTH IN FEET	GRAPHIC LOG	INTERVAL SAMPLE NO.	DESCRIPTIVE LOG						
1			0-1.6 No Return - organics ± till.						
2			1.6-2.3 Poor return - till. 2.3-11.0 Till.						
3			11.0-12 Bedrock						
4		01	1.6-11.0 <u>Till</u>						
5			<u>Boulders</u>						
6		02	4.4-4.6 mafic volcanic or fine gabbro						
7			5.2-5.3 granodiorite						
8			5.6-5.9 diorite						
9		03	9.7-10.2 intermediate-mafic volcanic						
10			<u>Matrix</u>						
11		04	2.3-6.8 - grey, fine sand and silt						
12			with minor gritty clay						
13			balls from 5.3-5.5 matrix						
14			not abundant in comparison						
15		05	to clasts						
16			6.8-7.3 - grey gritty clay matrix						
17			7.3-7.6 - grey to grey-beige, fine						
18			sand and silt matrix						
19			7.6-7.8 - minor gritty clay balls						
20			as well as fine sand, silt						
21		N.S.	7.8-8.3 - beige-grey, sand and						
22			silt						
23		06	8.3-10.2 - dark beige-brown fine						
24			sand and silt - abundant						
25			rock flour						
26			10.2-11.0 beige-grey, fine sand and						
27			silt						
28			<u>Clasts</u>						
29			1.6-5.0 abundant cobbles - 50:50						
30			volcanics/sediments versus granitoids						
31			5.0-7.3 abundant cobbles: 60:40						
32			volcanics/sediments versus granitoids						
33			7.3-8.3 cobbles; 80:20 volcanics/						
34			sediments versus granitoids						
35			8.3-10.2 cobbles; 95% volcanics/						
36			sediments - abundant "local" schist						
37			10.2-11.0 cobbles/boulders - 95-98%						
38			green volcanics (similar to boulder						
39			interbedded from 9.7-10.2)						
40			11.0-12.0 <u>Bedrock</u> : intermediate						
41			to-mafic volcanic:-						
42			medium green, fine grained						
43			and equigranular; poorly						
44			schistose; 5-7% white quartz -						
45			carbonate veining						

12.0 EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 29, 30 19 87

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-679 LOCATION L 42 E ; 9+00 S

GEOLOGIST K MacNeil DRILLER Hawg BIT NO. CB60635 BIT FOOTAGE 0-15.5

MOVE TO HOLE 10:00 - 10:15

DRILL 10:15 - 3:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

*New Bit and Sub

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-1.2 No Return - little resistance to penetration - organics ± till. 1.2-14.1 Till. 14.1-15.5 Bedrock						
2		01		1.2-14.1 <u>Till</u>						
3				<u>Boulders</u>						
4		02		2.5-2.7 - sandstone/greywacke						
5				5.2-5.4 - granodiorite + monzonite						
6				8.7-8.8 - gabbro						
7				<u>Matrix</u>						
8		03		1.2-2.3 - grey-beige, fine sand and silt						
9				2.3-8.1 - as from 1.2-8.3, but in lesser proportions (i.e. more clasts) - from						
10				3.3-3.5, inner grey gritty clay balls; matrix slightly more abundant below 3.5m						
11		04		8.1-12.5 grey, fine sand and silt						
12				matrix with varying proportions of grey gritty clay lumps; at 10m, intersect a "seam" of grey, compact, pure clay (5-10cm in width); between 11 and 12 metres, alternating sand/silt till						
13		05		matrix and clay partings						
14				12.5-14.1 grey, fine sand and silt						
15		06		<u>Clasts</u>						
16				1.2-2.3 pebbles :- 50-60% volcanics/sediments and 40-50% granitoids						
17		07		2.3-8.0 abundant cobbles :- clast composition similar to that noted from 1.2-2.3 - @ 7.1 intersected a mineralized pebble/cobble containing 740% pyrite						
18		08		8.0-9.0 pebbles :- 95% volcanics/sediments						
19				9.0-12.0 pebbles :- 85-95% volcanics/sediments; 5-15% granitoids						
20		09		12.0-14.1 cobbles :- clast composition as from 9.0-12.0						
21				14.1-15.5 <u>Bedrock</u> : sericite schist						
22				(sandstone?) :-						
23				light grey green in color;						
24				moderately to strongly schistose						
25				with sericitic schistosity planes;						
26				sample is carbonated with ~5-70% disseminated calc. c.; trace to 0.1% disseminated pyrite						

155 EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 30 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO. LDVT 680

LOCATION 143E/19-00S

GEOLOGIST MacNeil/Leber DRILLER Hwang/Lind BIT NO. CFR475 BIT FOOTAGE 15.5-21.9

MOVE TO HOLE 3:30 - 3:45

DRILL 3:45 - 5:15 5:30 - 7:15 7:20 - 9:00

MECHANICAL DOWN TIME 5:15 replace hydraulic hose

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 9:15 - 9:20

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	%S %	Gr %					
1				0.0 - 1.1 Organics							
2				1.1 - 1.7 no return							
3				1.7 - 14.9 Till							
4			1	14.9 - 16.4 Bedrock							
5				Boulders:							
6			2	6.1 - 6.3 intermediate volcanic							
7				6.6 - 6.8 mafic volcanic							
8				7.5 - 8.0 quartz monzonite (?) or granodiorite							
9			3	8.9 - 9.1 gabbro							
10				9.5 - 9.6 porphyry							
11				9.7 - 9.9 intermediate volcanic							
12			4	Matrix:							
13				1.7 - 14.9 gray-beige fine sand and silt							
14			5								
15			6								
16				Clasts:							
17				1.1 - 9.1 cobbles	60-65	40-35					
18			7	9.1 - 13.8 cobbles	75	25					
19				13.8 - 14.2 pebbles	80	20					
20			8	14.2 - 14.9 cobbles and pebbles	80	20					
21				Bedrock: 14.9 - 16.4							
22				light green-gray sandstone/graywacke,							
23				0.5-1.5mm quartz grains. Minor sericite							
24				Veinlets of carbonate 3%. Trace							
25				pyrite 1%.							
26				Much lighter green from 16.2-16.4,							
27				larger quartz grains ~ 2mm							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 30 19 87 HOLE NO LDVT-681 LOCATION L44E/9100S
 GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C860635 BIT FOOTAGE 31.9-55.7
 SHIFT HOURS TO 9:15-9:20 MOVE TO HOLE 9:25-11:45
 TOTAL HOURS MECHANICAL DOWN TIME 12:45-13:15 change gasket.
 DRILLING PROBLEMS OTHER
 CONTRACT HOURS MOVE TO NEXT HOLE 14:10

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
					S/V %	Gr %	Shape			
1				0.0-0.5 Organics + brown (oxidized) sand						
2				0.5-3.1 brown coarse sand and granules						
3				3.1-22.2 Till, clay balls, clay coatings						
4			1	Boulders: none						
5			2	Matrix: 3.1-10.9 gray-green silt and fine sand and gritty clay balls						
6			3	10.9-12.3 gray-green fine sand and silt						
7			4	12.3-16.5 gray-green sand and fine sand						
8			5	16.5-19.4 gray-green silt and fine sand						
9			6	19.4-20.2 gray large clay balls, silt and fine sand						
10			7	20.2-20.8 gray-green fine sand						
11			8	20.8-22.2 gray clay balls						
12			9	Clasts: 3.1-5.3 pebbles	70	30	SR-SA			
13			10	5.3-5.6 pebbles and cobbles	50	50	SA			
14			11	5.6-6.6 pebbles	70	30	SR-SA			
15			12	6.6-6.8 pebbles	60	40	SR-R			
16			13	6.8-7.3 pebbles	10	90	R-SR			
17			14	7.3-7.4 pebbles	50	50	SR-SA			
18			15	7.4-7.5 pebbles	40	60	SA-SR			
19			16	7.5-8.7 pebbles	60	40	SR-SA			
20			17	8.7-9.3 pebbles	80	20	SR-SA			
			18	9.3-13.0 pebbles	70	30	SR-SA			
			19	13.0-20.0 pebbles	90	10	SR-SA			
			20							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 30 19 87

SHIFT HOURS

TO

TOTAL HOURS**CONTRACT HOURS**

HOLE NO LDT-681 (cont) LOCATION L44E/900S
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C668635 BIT FOOTAGE 31.9-55.7
MOVE TO HOLE _____ 9:15-9:20
DRILL _____ 9:25-13:45
MECHANICAL DOWN TIME _____ 12:45-13:15 change gasket
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____ 14:10

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 3 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDV-T-714 LOCATION LSIE/41005

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. 1000361 BIT FOOTAGE 24.7-32.7

MOVE TO HOLE 17:20-19:00

DRILL

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE Shift ends

DEPT IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr %	Shape			
1				0.0-1.0 No recovery						
2				1.0-7.0 Till						
3			1	7.0-8.0 Bedrock						
4				Boulders:						
5				5.1-5.2 sandstone						
6			2	5.2-5.9 granite						
7				Matrix:						
8			3	1.0-3.4 beige fine sand						
9				3.4-6.1 green-gray fine sand						
10				6.1-7.0 gray-green silt and fine sand						
11				Clasts:						
12				1.0-3.4 pebbles	40	60	SR			
13				3.4-3.9 pebbles	70	30	SA-SR			
14				3.9-4.4 cobbles	10	90	SA			
15				4.4-5.1 pebbles	50	50	SA			
16				5.9-6.0 pebbles and cobbles	40	60	SA			
17				6.0-6.1 pebbles	50	50	SA-SR			
18				6.1-6.6 pebbles	20	80	SA			
19				6.6-7.0 pebbles	60	40	SA			
20				Bedrock: 7.0-8.0						
				Dark gray mafic volcanic. Fine grained.						
				Sheared, moderate schistosity. Visible						
				lineations along sheared direction.						
				Sericite layer at 7.5m and at 7.9m						
				Trace minute pyrite!						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 3 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDV-T-715 LOCATION LSOE/41005

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. J000361 BIT FOOTAGE 12.6 - 24.7

MOVE TO HOLE 14:05 - 14:10

DRILL 14:20 - 16:55

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 17:05

DEPTH IN METERS	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	%s %	Gr %	Shape				
1				0.0 - 1.0 No recovery							
2				1.0 - 2.1 Organics							
3				2.1 - 10.6 Till, gritty clay balls							
4				10.6 - 12.1 Bedrock							
5			1	Boulders:							
6				6.5 - 7.0 diorite							
7				7.9 - 8.6 mafic volcanic							
8			2	Matrix:							
9				2.1 - 7.0 gritty gray-green silt							
10				7.0 - 10.6 green-gray fine sand							
11			3								
12				Clasts:							
13			4	4.0 - 6.0 pebbles and granules	70	30	SA				
14				6.0 - 7.5 pebbles	80	20	SR				
15				7.5 - 9.9 cobbles and pebbles	60	40	SA-SR				
16				9.9 - 10.6 pebbles	70	30	SA				
17											
18				Bedrock: 10.6 - 12.1							
19				Light gray mafic volcanic. Medium grained, moderately sheared. Trace pyrite. Minor sericite. Minor carbonate veinlets 2%.							
20				11.5 - 11.9 light green, more sericite, stained pyrite crystals 5%. Pyritic staining follows foliations weak-strong.							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb-3 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDV-T-716 LOCATION L49E/4100S

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. J000 360 BIT FOOTAGE 7.5-9.6

MOVE TO HOLE 2:00-2:15 J000 361 0.0-12.6

DRILL 9:00-13:35

MECHANICAL DOWN TIME 2:15 Broken control panel

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 14:05

DEPT IN METRE	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	%s%	Gr%	Shape				
1				0.0 - 0.8 No recovery							
2				0.8 - 1.4 Sand and gravel							
3				1.4-11.1 Till, clay balls, fine sand coatings							
4				11.1-12.6 Bedrock.							
5				Boulders:							
6				3.0-3.2 mafic volcanic							
7				8.4-8.5 diorite							
8				8.6-8.9 diorite							
9				9.5-9.7 mafic volcanic							
10				Matrix:							
11				1.4-2.9 fine beige sand							
12				2.9-3.0 gray-green sand							
13				3.2-4.9 fine beige sand							
14				4.9-11.1 gray-green sand							
15				Clasts:							
16				1.4-2.9	60	40	SA-SR				
17				2.9-3.0 pebbles	70	30	SR				
18				3.2-3.9 pebbles	60	40	SR-SA				
19				3.9-4.1 cobbles and pebbles	80	20	SA-SR				
20				4.1-4.9 pebbles + cobbles	60	40	SA-SR				
				4.9-7.3 pebbles	70	30	SA				
				7.3-7.9 cobbles	55	45	SR-SA				
				7.9-9.7 pebbles	80	20	SR				
				9.7-11.1 cobbles	75	25	SR-SA				
				Bedrock: 11.1-12.6							
				Dark-green mafic volcanics. Trace							
				carbonate veinlets 1%. Medium							
				grained. Minute trace pyrite.							
				Sheared along a surface with							
				very minor banding. More sheared							
				at depth.							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-721 LOCATION L 37 E; 2+00 S

GEOLOGIST MacNeil DRILLER Hwang BIT NO. C668636 BIT FOOTAGE 24-28.5

MOVE TO HOLE 1:00 - 1:15

DRILL 1:15 - 2:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-1.8 No Return - organics to 1.0 and +11(?) to 1.8. 1.8-2.9=Till. 2.9-4.5 = Bedrock						
2				1.0 - 2.9 <u>Till</u>						
3				<u>Boulders</u>						
4				<u>Matrix</u>						
5				1.8-2.9 grey-beige, fine sand and silt						
6				<u>Clasts</u>						
7				1.0-2.9 cobbles:- clast composition -						
8				75% volcanics / sediments and						
9				25% granitoids						
10				2.9-4.5 <u>Bedrock</u> :- intermediate						
11				volcanic(?) or sediment -						
12				2.9-3.5 light greenish white; very						
13				fine grained; samples possess a						
14				good foliation; sample is						
15				bleached - appears to result from						
16				silicification - silica flooding of						
17				hos 4						
18				3.5-3.9 beige to grey beige (locally						
19				oxidized) fine grained volcanic						
20				or sediment; very strong tectonic						
				fabric - schistosity or shearing						
				3.9-4.5 greenish-grey; strongly						
				foliated to schistose; fine grained						
				with a faintly granular,						
				sedimentary appearance -						
				sandstone or wacke(?) -						
				possibly same rock as from						
				2.9-3.5 but less silicified						
				resulting in a better						
				preservation of original texture;						
				5-10% white to grey veinlet						
				quartz						

4.5 EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 30/31 19 87

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDUT-722 LOCATION L39E; 2+00.5

GEOLOGIST K. Mac Neil DRILLER J. Hwang BIT NO. C36A636 BIT FOOTAGE 17.5-24.0

MOVE TO HOLE 23:00 - 23:15

DRILL 23:15 - 1:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

· MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG							
1				0.0-1.9 No Return; 0.2-0.4 boulder; 0.5-0.9 = composite diorite andesite boulder 0.9-5.0 = Till; 5.0-6.5 = Bedrock							
2			01	0.9 - 5.0 <u>Till</u>							
3				<u>Boulders</u> 3.0-3.3 - granodiorite							
4			02	<u>Matrix</u>							
5				0.9-2.3 brown, oxidized fine to medium sand matrix							
6				2.3-5.0 grey-beige, fine sand and silt matrix; from 4.8-5.0 abundant green rock flour/cuttings							
7				<u>Clasts</u>							
8				0.9-2.0 pebbles; 60-70% volcanics/sediments, 30-40% granitoids							
9				2.0-4.8 cobbles; 60:40 volcanics/ sediments versus granitoids							
10				4.8-5.0 cobbles, or bedrock rubble; 95% green mafic volcanic clasts							
11				5.0-6.5 <u>Bedrock</u> :- mafic volcanic :- dark green; fine grained; strongly schistose; highly altered - chlorite and carbonate; carbonate (calc. to) may constitute 15% (+) of sample - carbonate-chlorite schist							
12				6.5 EOH							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 30 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-723 LOCATION L41E ; 2+00S

GEOLOGIST Mac Neil DRILLER Hewg BIT NO. C368636 BIT FOOTAGE 12-5-17.5

MOVE TO HOLE 22:00-22:15

DRILL 22:15-23:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.5 No Return - 0.0-0.3 no resistance to penetration - organics; 0.3-0.5, interact cobbles - till. 0.5-2.7 = Till. 2.7-5.0 = Bedrock
2			01	
3				0.3-2.7 <u>Till</u>
4				<u>Boulders</u>
5				<u>Matrix</u>
6				0.5-1.0 brown, oxidized, poorly sorted medium grained sand
7				1.0-2.0 grey-beige, fine to medium grained sand - unsorted
8				2.0-2.7 grey-beige, fine sand and silt
9				<u>Clasts</u>
10				0.5-2.7 pebbles; clast composition of 80% volcanics / clasts and 20% granitoids.
11				2.7-5.0 <u>Bedrock</u> :: mafic volcanic(?) - chlorite schist; dark green; strongly schistose to sheared; soft - chloritic ± sericitic alteration; minor quartz veins and stringers
12				
13				
14				
15				5.0 EOH
16				
17				
18				
19				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 30 19 87

SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVF-724 LOCATION L43E/2+005

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68635 BIT FOOTAGE 0.0-3.5

MOVE TO HOLE 14:10 - 14:40

DRILL 14:55-15:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE _____ 15:40

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 30 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-725 LOCATION L45E/2100S

GEOLOGIST Leber/MacNeil DRILLER Lind/Hong BIT NO. CB68636 BIT FOOTAGE 3.5-12.5

MOVE TO HOLE 15:40 - 15:50

DRILL 15:55 - 17:00 18:45 - 19:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER wait for water 17:00 - 18:45

MOVE TO NEXT HOLE Shift ends

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	%S	Gr%	Shape				
1				0.0-0.9 no recovery							
2				0.9-1.1 clasts with sand coatings							
3				1.1-1.4 no recovery							
4			1	1.4-7.3 Till?, clay coatings							
5				4.9 small clay balls							
6			2	Boulders:							
7				1.1-1.3 Sandstone							
8			3	Matrix:							
9			4	0.9-1.1 brown coarse sand							
10				1.4-1.8 brown fine sand							
11				1.8-2.3 green-gray silt and fine sand							
12				2.3-2.5 beige-green sand							
13				2.5-2.9 matrix contaminated from							
14				water tank							
15				2.9-3.4 brown sand							
16				3.4-4.9 gray-green silt							
17				4.9-5.8 gray-green silt, very fine sand							
18				5.8-7.3 gray-beige fine sand and silt							
19				predominantly; minor gray gritty							
20				clay lumps.							
				Clasts:							
				0.9-1.1 pebbles	50	50	SR-SA				
				1.3-1.4 (poor recovery) pebbles?	80?	20?	SA?				
				1.4-3.4 pebbles	70	30	A-SA				
				3.4-5.8 pebbles	80	20	SA-A				
				5.8-7.3 cobbles	60	40					
				Bedrock: 7.3-9.0							

greenish-gray siltstone/graywacke (chlorite-carbonate-sericite schist). Very fine grained, strongly schistose to fissile, very highly altered sericite-carbonate-chlorite; 10% disseminated and veinlet calcite; 0.2-0.4 disseminated pyrite. Sporadic return from 0.0-3.8m of overburden.

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 2, 3 19 87

SHIFT HOURS

TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-727 LOCATION L 49E ; 2700S

GEOLOGIST K MacNeil DRILLER J Hewig BIT NO. T000360 BIT FOOTAGE 0-7.5

MOVE TO HOLE 00:15 - 00:30

DRILL 00:30 - 2:30

MECHANICAL DOWN TIME 2:30-3:15 Hydraulic tank, control panel tips over when

~~DRILLING PROBLEMS~~ moving; drill feed & road breaker controls broken - remove burner

OTHER valve bank; 3:15-4:30 Travel

MOVE TO NEXT HOLE 2:00-2:30 (winch cable breaks)

* New Bit and Sub

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-1.8				No Return - no resistance to penetration from 0.0-1.2 - organics
1.2-6.0				Till - 6.0-7.5 = Bedrock
1.2-6.0				<u>Till</u>
				<u>Boulders</u>
4.1-4.2				red felsic tuff(?)
4.2-4.4				gabbro
				<u>Matrix</u>
1.8-3.1				beige-brown, oxidized sand and silt
3.1-4.1				grey-beige, fine sand and silt
4.4-6.0				grey, fine to medium grained sand and silt with minor gritty clay below 5.6m
				<u>Clasts</u>
1.2-4.4				cobbles; clast composition 60% volcanics/sediments and 40% granitoids
4.4-6.0				cobbles; 50:50 volcanics/sediments: granitoids
6.0-7.5				<u>Bedrock</u> - greywacke - dark grey (to slightly greenish); granular appearance - grain size of < 0.7 mm; well foliated to schistose with sericitic / chloritic foliation planes; at 6.4, intersect a thin mudstone band
7.5m				EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 2/3 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-728 LOCATION L51E; 2+00S

GEOLOGIST K MacNeil DRILLER J Hwang BIT NO. T000639 BIT FOOTAGE 33.3-44.3

MOVE TO HOLE 22:45 - 23:00

DRILL 23:45 - 00:15

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-2.1 No Return - no resistance to penetration - organics and sand.
2				2.1-3.4 = Sand - grey, very fine grained. 3.4-9.5 = Till; 9.5-11 = Bedrock.
3				
4				3.4-9.5 <u>Till</u>
5				<u>Boulders</u>
6				<u>Matrix</u>
7				3.4-8.6 grey-buff, fine sand and silt; minor gritty clay present at 4.3m
8				8.6-9.5 grey, fine to medium grained sand and silt
9				<u>Clasts</u>
10				3.4-4.7 pebbles; clast composition - 60% volcanics and sediments, and 40% granitoids
11				4.7-6.5 cobbles; clast composition as from 3.4-4.7
12				6.5-7.5 pebbles; clast composition as before
13				7.5-8.6 cobbles; clast composition as before
14				8.6-9.5 cobbles; clast composition 95% volcanics/sediments (grey sedimentary schist ??);
15				- till/bedrock interface not well defined - from ~9.3-10.0 the section may represent a bedrock rubble
16				9.5-11.0 <u>Bedrock</u> :- siltstone;
17				dark grey; very fine grained; strongly schistose to poorly fissile; silty calcitic to clastic 'shear' or foliation planes; ~10% grey to grey-white quartz ± calcite veins
18				- at 10.3 intersect a thin mudstone horizon
19				- below 10.5m, sample contains approximately 20% quartz-calcite vein material
20				11.0 EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 2 1997

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-729 LOCATION L 53 E; 2+00.5

GEOLOGIST K MacNeil DRILLER J. Huang BIT NO. T000639 BIT FOOTAGE 24.8-33.3

MOVE TO HOLE

DRILL

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER 18:35 - 19:15 Travel

MOVE TO NEXT HOLE

Night Shift

19:15 - 20:00 Travel

20:00 - 20:15 Wait for tractor to move drill

20:15 - 21:45 Move - difficulty in winching

21:45 - 22:45 Drill

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-1.9 No Return - no resistance to penetration						
2				- Organics. 1.9-7.3 = Till. 7.3-8.5 =						
3				Bedrock						
4			01	1.9 - 7.3 <u>Till</u>						
5				<u>Boulders</u>						
6			02	<u>Matrix</u>						
7				1.9-4.3 grey fine sand and silt						
8			03	4.3-7.3 grey fine sand and silt with						
9				minor pure clay partings & grey						
10			04	gitty clay lumps from 4.3-5.0						
11				<u>Clasts</u>						
12				1.9-3.0 cobbles; clast composition -						
13				70% volcanics/sediments and						
14				30% granitoids						
15				3.0-4.8 pebbles; clast composition						
16				as from 3.0-4.8						
17				4.8-7.3 cobbles; clast composition -						
18				60% volcanics/sediments and						
19				40% granitoids						
20				7.3-8.5 <u>Bedrock</u> : sandstone/greywacke						
21				medium greenish grey;						
22				moderately to well foliated;						
23				grain size appears to be						
24				N 1.0mm; 1-2% quartz ±						
25				carbonate stringers;						
26				negligible sulfides except for						
27				a thin (1 cm?) bed of						
28				massive pyrite in the						
29				initial 0.2m of bedrock;						
30				2% disseminated calcite						
31				8.5m EOH						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-733 LOCATION BL 38E

GEOLOGIST Mac Neil DRILLER Hawq BIT NO. C.B. 68636 BIT FOOTAGE 28.0-35.0

MOVE TO HOLE 2:00-2:15

DRILL 2:15-3:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-1.0 No Recovery · 1.0-4.7=Till· 4.7-6.5=Bedrock
1				
2		01		1.0 - 4.7 <u>Till</u>
3				<u>Boulders</u>
4		02		<u>Matrix</u>
5				1.0-1.3 beige, fine sand and silt
6	LINT			1.3-4.0 grey-beige, fine sand and silt
7	733			4.0-4.5 grey, fine to medium grained sand
8	Brx			4.5-4.7 grey, fine sand and silt with minor gritty clay lumps
9				<u>Clasts</u>
10				1.0-3.0 pebbles; clast composition of 80% volcanics/sediments and 20% granitoids
11				3.0-3.5 cobbles; 90% volcanics/sediments and 10% granitoids
12				3.5-4.5 abundant cobbles; 70% volcanics and sediments and 30% intrusives
13				4.5-4.7 cobbles; 90% volcanics and sediments
14				4.7-6.5 <u>Bedrock</u> :- mudstone/siltstone dark grey to black; fine to very fine grained; schistose to fissile - possibly weakly graphitic; up to 2-3% pyrrhotite + pyrite "strung" out along foliation and as rare, thin beds or laminae; sample is highly calcareous with 12%(+) disseminated & stringer calcite
15				5.5-6.5 sample appears coarser grained - possibly a graywacke or sandstone; concentrations of carbonate and sulfides are similar to that noted in section from 4.7-6.5m
16				6.5m EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-734 LOCATION BL 40E

GEOLOGIST Mac Neil DRILLER Hewg BIT NO. CB68436 BIT FOOTAGE 35-38

MOVE TO HOLE 3:45-4:00

DRILL 4:00 - 4:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.4 No Return - organics; 0.4-0.6 = Organics; 0.6-3.0 = Bedrock
2				
3				0.6-3.0 <u>Bedrock</u> :- mafic volcanic (carbonate-chlorite schist) dark green; fine grained; strongly schistose; chloritic and calcareous - 7-10% (?) disseminated calcite
4				3.0 EOH
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 1987 HOLE NO LDVT-735 LOCATION BL 42E
 GEOLOGIST K MacNeil DRILLER J. Hwang BIT NO. CB68636 BIT FOOTAGE 38-46
 SHIFT HOURS TO MOVE TO HOLE 4:30-4:45
 TOTAL HOURS DRILL 4:45-7:00
 MECHANICAL DOWN TIME
 DRILLING PROBLEMS
 OTHER
 CONTRACT HOURS MOVE TO NEXT HOLE

New Bit - CB68637

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1			01	0-0.5 No Return - presence of cobbles indicates till. 0.5-5.9 = Till. 5.9-8.0 = Bedrock						
2		N.S.		0.0-5.9 Till						
3			02	<u>Boulders</u>						
4				2.3-2.5 diorite						
5				4.3-4.5 red sandstone						
6			03	<u>Matrix</u>						
7		LDVT		0.5-2.0 brown (oxidized) fine sand and silt						
8		735		2.0-5.9 beige (lightly oxidized?) fine sand and silt						
9		Bpx		<u>Clasts</u>						
10				0.0-2.3 cobbles :- 70-80% volcanics/ sediments and 20-30% granitoids						
11				2.5-5.2 abundant cobbles :- 60% volcanics/sediments and 40% granitoids						
12				5.2-5.9 cobbles :- 70% volcanics/ sediments (common "local" schists) and 30% granitoids						
13				5.9-8.0 <u>Bedrock</u> :- mafic volcanic (carbonate-chlorite schist) dark quartz; fine grained; strongly schistose; chloritic and calcareous; from 5.9-7.2m, approximately 5% calcite veins paralleling foliation and ~10% calcite as stringers and disseminations; from 7.2-7.7m, 10% white quartz calcite veins; from 7.7-8.0m, 70-80% of sample is white quartz-carbonate vein material						
14										
15										
16										
17										
18										
19										
20				8.0 EOH						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 31 19 87

SHIFT HOURS

 TO

TOTAL HOURS**CONTRACT HOURS**

HOLE NO LDVT-736 LOCATION L44E/B.L.

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C860637 BIT FOOTAGE 0.0-4.0

MOVE TO HOLE 7:10 - 7:25

DRILL 7:30 - 8:20

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE _____ 8:30

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	S/v %	Gr %	Shape				
0				0.0 - 1.0 No recovery							
1				1.0 - 2.5 Till, minor clay balls							
2			1	2.6 - 4.0 Bedrock.							
3		2 →		Boulders:							
4				none							
5				Matrix:							
6				1.0-2.0 brown coarse sand							
7				2.0-2.4 brown sand and silt							
8				2.4-2.6 green silt, beige, fine grained sand							
9				Clasts:							
10				1.0-2.6 pebbles	80	20	SR-SA				
11				Bedrock: 2.6 - 4.0							
12				light green - dark green mafic volcanic							
13				Weak to moderate schistosity. Veinlets							
14				of carbonate 10%, with trace							
15				pyrite along the veinlet edges. Pyrite							
16				follows shear zone foliations.							
17											
18											
19											
20											

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 31 19 87

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-737 LOCATION L46E/B.L.

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68636 BIT FOOTAGE 4.0-11.5

MOVE TO HOLE 8:30-8:35

DRILL 8:40 - 9:20

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 9:35

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 1 19 87 HOLE NO LDV-T-738 LOCATION L48E/B.L.
 GEOLOGIST R. Leber DRILLER D. Lind BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE 17:20-17:40
 _____ TO _____ DRILL 17:45-18:40
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 18:40-19:30
 _____ MOVE TO NEXT HOLE _____

DEPT' IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0.0 - 0.6 No recovery						
				0.6 - 0.9 Beige sand						
2			1	0.9 - 7.5 Till, clay balls and coatings						
				7.5 - 9.5 Bedrock						
3				Boulders:						
4			2	1.0 - 1.2 sandstone						
				7.5 - 8.0 schist						
5										
6			3	Matrix:						
7				0.9 - 2.6 gray-green						
				2.6 - 2.7 sand layer						
8			4	2.7 - 3.2 gray-green fine sand						
				3.2 - 3.3 beige fine sand						
9				3.3 - 3.7 gray-green fine sand						
10				3.7 - 3.8 gray-beige fine sand						
				3.8 - 7.5 gray-green fine sand						
11										
12				Clasts:						
				0.9 - 3.6 pebbles and cobbles	80	20	SR-SA			
13				3.6 - 5.8 pebbles and granules	80	20	SR-SA			
				5.8 - 7.5 pebbles and cobbles	95	5	SA			
14										
15				Bedrock: 7.5 - 9.5						
16				Dark gray-rust brown locally siltstone/						
17				wacke. Moderate schistosity. Fine						
				grained. Chloritic (to biotitic?).						
18				5% quartz-carbonate stringers.						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 1/2 19 87

SHIFT HOURS

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-739 LOCATION BL 50E

GEOLOGIST MacNeil DRILLER Huang BIT NO. CB 68639 BIT FOOTAGE 42.3-48.8
MOVE TO HOLE 22:45-23:00 J000359 0-7.5

MOVE TO HOLE 22:45-23:00

DRILL 23:30 - 00:30 ; 00:45 - 4:15

MECHANICAL DOWN TIME

DRILLING PROBLEMS 00:30 - 00:45 Bit losing bearings - replace:

OTHER 20:30-22:45 Wait for water; 23:00-23:30 Wait for water sleep

~~MOVE TO NEXT HOLE~~ and wash out mud tanks; 4:15-4:30 Drain up; 4:30-5:00 Travel (D-7 stuck)

* New Bit @ 6.5m - J000359

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-1.0 No Return - organic to 0.2; intersect cobbles (till) at 0.2. 0.2-13.1 Till (sporadic return from 1.0-2.0m).						
2			01	13.1-14.0 Bedrock						
3				0.2-13.1 <u>Till</u>						
4			02	<u>Boulders</u>						
5				2.8-2.95 mafic volcanic						
6				7.6-7.8 gabbro						
7			03	8.2-8.6 feldspar porphyry						
8				10.0-10.2 mafic volcanic						
9			04	<u>Matrix</u>						
10				1.0-2.0 large, oxidized fine sand and silt						
11			N.S.	2.0-4.6 grey - beige to beige, lightly oxidized to unoxidized fine sand and silt						
12			05	4.6-5.2 grey, fine silty sand and minor grey gritty clay lumps						
13			06	5.2-6.1 zone of poorly sorted sand, silt and minor pebbles along with rare pure clay partings and poorly indurated "clasts" of grey, laminated silt						
14			07	6.1-6.4 grey gritty clay matrix						
15				6.4-13.1 grey, fine sand and silt matrix						
16				<u>Clasts</u>						
17				0.2-5.2 abundant cobbles; clast composition - 50-60% volcanics/ sediments, and 40-50% granitoids						
18				5.2-6.4 minor pebbles						
19				6.4-8.2 cobbles; clast composition - 60% volcanics/sediments and 40% granitoids						
20				8.6-10.0 cobbles; clast composition - 70% volcanics/sediments, and 30% granitoids						
21				10.2-13.1 cobbles; clast composition - 80% volcanics/sediments and 20% granitoids						

131-14.0 Bedrock :- siltstone:
black; very fine grained; fissile;
rare calcite stringers

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 2 19 87 HOLE NO LDV-T-740 LOCATION 52E/B.L.
 GEOLOGIST R. Leber DRILLER D. Lind BIT NO. 1000639 BIT FOOTAGE 7.5-19.6
 SHIFT HOURS _____ MOVE TO HOLE Shift starts
 _____ TO _____ DRILL 14:10-16:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER wait for water; no road, tractor stuck in mud from previous night
 _____ MOVE TO NEXT HOLE 16:55

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr. %	Shape				
1				0.0-1.0 No recovery							
2				1.0-2.0 Organics and mud							
3				2.0-10.6 Till							
4				10.6-12.1 Bedrock							
5			1								
6			2	Boulders:							
7				4.9-5.1 quartzite							
8			3	Matrix:							
9				2.0-3.8 fine gray silt and fine sand							
10			4	3.8-9.0 gray fine sand and silt							
11				9.0-10.2 gray fine sand to medium sand							
12			5	10.2-10.6 fine sand and silt							
13			6	Clasts:							
14				2.0-3.2 pebbles	90	10	SR-SA				
15				3.2-3.6 cobbles and pebbles	80	20	SA				
16				3.6-4.8 cobbles and pebbles	60	40	SA				
17				4.8-5.1 pebbles	70	30	SR-SA				
18				5.1-10.2 cobbles	90	10	SA				
19				10.2-10.5 cobbles	75	25	SR-SA				
20				10.5-10.6 cobbles and granules	90	10	SA				
				Bedrock: 10.6-12.1							
				Dark gray sandstone. Quartz grains,							
				1mm in diameter. Minute trace pyrite.							
				Trace sericite.							
				11.4-11.6 Dark gray chlorite-sericite							
				schist. Moderate to high							
				schistosity. Carbonate and							
				quartz veinlets 6%. Trace							
				pyrite. Minor slickensides?							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 2 19 87

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDV-T-741 LOCATION LS4/B.L.

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. J000639 BIT FOOTAGE 19.6-24.8

MOVE TO HOLE 16:55 - 17:05

DRILL 17:30 - 18:20

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 18:35 Shift ends

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE 24-9 1986

SHIFT HOURS

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-500 LOCATION L25E/13+25S

GEOLOGIST J. BABINEAU DRILLER G. HOWE BIT NO. CB68337 BIT FOOTAGE 11.0-19

MOVE TO HOLE 7:20 - 7:25

DRILL 7:30 - 8:20

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 8:25-9:20

DEPTH IN METRES	METRES	GRAPHIC LOG	SAMPLE NO.	INTERVAL	DESCRIPTIVE LOG METRES
0	1				0,0-0,8 metres = Organics, 0,8-3,0 = beige to grey fine grained free-clast Sand, bedrock
2	2				
3	3				Boulders
4	4				3,3-3,5 m. = Sericite schist
5	5				
6	6				Matrix
7	7				3,0-6,0 m. = Grey Fine Sand
8	8				6,0-6,5 = Grey clay + silt (lodgement till)
9	9				Clasts:
10	10				SR-SA S/V GR
11	11				3,0-6,0 m. = Pebblely SR-SA 70% 30%
12	12				6,0-6,5 = Pebblely SA 80% 20%
13	13				(2 to 5 mm. pebbles)
14	14				Bedrock:
15	15				6,5-6,7 = Dark green fine grained chlorite schist (Mafic Volcanic). Moderate cleavage, few white to grey quartz veinlets, few white to beige carbonate veinlets.
16	16				6,7-8,3 = Grey siltstone (sericite schist), same veinlet from 7,2 to 8,0 : Disseminated pyrite bearing quartz veinlets represent 50% of whole rock. Disseminated pyrite in wallrock too.
17	17				
18	18				
19	19				
20	20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 31 19 87

SHIFT HOURS

 TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-753 LOCATION L41E/2100N

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C669536 BIT FOOTAGE 30.5-32.7

MOVE TO HOLE 15:05 - 15:30

DRILL 15:35 - 16:15

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 16:25

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 31 19 87

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-754 LOCATION L43E/2+00N

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868636 BIT FOOTAGE 22.3-30.5

MOVE TO HOLE 12:50 - 13:05

DRILL 13:10-13:15 13:20-14:50

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER Redrilled hole because of poor recovery

MOVE TO NEXT HOLE 15:05

[illegible]

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 31 1987 HOLE NO LDVT-755 LOCATION L45E/2+00N
 GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868636 BIT FOOTAGE 11.5-22.3
 SHIFT HOURS _____ MOVE TO HOLE _____ 9:35-10:35
 _____ TO _____ DRILL _____ 10:45-12:40
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____ 12:50

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
					V/S %	Gr %	Shape			
1				0.0-1.1 no recovery						
2				1.1-1.9 Organics						
3				1.9-9.3 Till						
4			1	9.3-10.8 Bedrock						
5			2	Boulders:						
6				3.4-3.5 intermediate volcanic						
7				9.0-9.1 intermediate volcanic						
8			3	Matrix						
9			4	1.9-3.4 beige coarse silt and fine sand						
10			5	3.5-9.3 greenish beige coarse silt and fine sand						
11				Clasts:						
12				2.1-3.2 pebbles and granules	90	10	SR-SA			
13				3.2-3.4 pebbles and granules	85	15	SR-SA			
14				3.5-4.1 pebbles	60	40	SA			
15				4.1-9.0 pebbles	90	10	SR-SA			
16				9.1-9.3 pebbles	90	10	SR-SA			
17				Bedrock: 9.3-10.8						
18				light green-dark gray mafic						
19				volcanics, banded, moderately						
20				sheared. Trace pyrite along						
				shear lineations. Veinlets of						
				carbonate 3%. Minor sericite.						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 3-4 1987

SHIFT HOURS

 TO

TOTAL HOURS**CONTRACT HOURS**

HOLE NO LDVT-756 LOCATION L47E 2+00N

GEOLOGIST MacNeil DRILLER Hong BIT NO. J000361 BIT FOOTAGE 32.7-35.2

MOVE TO HOLE 21:00 - 2:45

DRILL 2:45 - 6:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER 20:00-20:45 Travel; 20:45-21:00 pull rods/prepares for move

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1			01	0-1.0; No Return. 1.0-1.3 Organics 1.3-2.0; Grey, fine sand w minor clay partings 2.0-6.5; Till. 6.5-8.0; Bedrock.
2			02	2.0-6.5; <u>Till</u> <u>Boulders</u> 2.8-3.0 - Intermediate volcanic 3.3-3.4 - Granodiorite 4.3-4.6 - Gabbro or mafic volcanic
3			03	<u>Matrix</u> 2.0-2.6 - Grey, fine sand and silt 2.6-6.5 - Grey gritty, clay w. fine sand silt.
4			04	<u>Clasts</u> 2.0-3.0 - Cobbles, clast composition 50-60% volcanics/sediments, 40-50% granitoids 3.0-6.5 - Abundant cobbles/boulders clast composition: 70% sediments/volcanics 30% granitoids.
5				6.5-8.0 <u>Bedrock</u> : siltstone/wacke possibly mafic volcanic Dark green to black; fine grained; strongly schistose; high chloritic possibly some biotite; 6.6-6.8 - 25% white quartz veinlets up to 1% pyrite mostly as laminae along foliation (primary fissility?). (much of the sample is 10 mesh grindings) Moderately to strongly calcareous 7.8-8.0 - 50% quartz veins (white) Below 7.8 the host is a biotite schist (sediment)
6				8.0 E.O.H.

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 1 19 87 HOLE NO LDV-T-757 LOCATION L49E/2100N
 GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868639 BIT FOOTAGE 22.2-32.8
 SHIFT HOURS _____ MOVE TO HOLE _____ 15:30 - 15:45
 _____ TO _____ DRILL _____ 15:50 - 17:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____ 17:20

DEPT IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr %	Shape			
1				0.0 - 1.6 No recovery (probably cobbly?)						
2				1.6 - 1.8 Brown (oxidized) sand						
3				1.9 - 8.9 Till, beige hard dry fine sand balls						
4				8.9 - 10.6 Bedrock						
5			1	Boulders:						
6				none						
7			2							
8				Matrix:						
9			3	1.8-5.3 fine beige sand						
10				5.3-7.8 green-gray silt and fine sand						
11			4	7.8-8.9 gray clay balls						
12										
13			5	Clasts:						
14				1.8-4.8 pebbles	60	40	SM-SR			
15				4.8-7.8 pebbles and granules	80	20	SM-SR			
16				7.8-8.9 granules	90	10	SR-SM			
17										
18				Bedrock: 8.9-10.6						
				Dark green chlorite schist. Weak						
				to moderate schistosity. Carbonate						
				veinlets 5%. Trace <1% pyrite						
				Sericite <2%.						
				10.4-10.6 Carbonate veinlets increase						
				in abundance.						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 1 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDV-T-758 LOCATION L 51E/ 2700N

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868639 BIT FOOTAGE 4.5-22.2

MOVE TO HOLE 13:30 - 13:40

DRILL 13:50 - 15:05

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 15:30

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr %	Shape				
1				0.0- 2.1 Organics							
2				2.1- 9.2 Till, clay balls, clay coatings							
3				9.2- 10.7 Bedrock							
4			1	Boulders:							
5				none							
6			2								
7				Matrix:							
8			3	2.1- 9.2 gray-green gritty silt, fine							
9				sand							
10			4								
11				Clasts:							
12			5	2.1- 3.4 pebbles	80	20	SH-SR				
13				3.4- 4.9 pebbles	70	30	SH-SR				
14				4.9- 5.4 pebbles and granules	80	20	SR-SA				
15				5.4- 6.1 granules	80	20	SR-R				
16				6.1- 9.2 cobbles and pebbles	90	10	SA				
17											
18				Bedrock: 9.2- 10.7							
19				Medium gray-green sericite-chlorite							
20				schist. Moderate to high schistosity.							
21				Minor carbonate veinlets 1%.							
22				Pyrite < 1%.							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 1 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDV-T-759 LOCATION L53E/2+00N

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868638 BIT FOOTAGE 49.9-68.2

MOVE TO HOLE 9:05-9:20 C868636 0.0-0.4

DRILL 9:30-11:00 C868639 0.0-11.5

MECHANICAL DOWN TIME 11:00-11:30 Remove rods, redrill with C868636. Remove

DRILLING PROBLEMS rods and more

OTHER

MOVE TO NEXT HOLE 13:30

new subbit and bit--

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	V/S %	Gr %	Slipage				
1				0.0-2.1 No recovery							
2				2.1-2.2 Brown sand							
3				2.2-10.0 Till, clay coatings, clay balls							
4				10.0-11.5 Bedrock							
5			1	Boulders:							
6				3.4-3.6 gabbro							
7			2	7.1-8.0 rhyolite							
8				9.2-9.4 quartzite							
9			3	Matrix:							
10				2.2-2.6 brown fine sand							
11			4	2.6-8.7 gray-green silt and gritty							
12				clay balls and fine sand							
13			5	8.7-9.2 beige fine sand, clay balls							
14			6								
15			7	Clasts:							
16				2.2-3.4 pebbles	50	50	SR-SA				
17				3.6-7.1 cobbles	80	20	A-SA				
18				8.0-8.3 cobbles	80	20	A-SA				
19				8.3-9.0 pebbles	70	30	SR-SA				
20				9.0-9.2 pebbles	85	15	SA				
21				9.4-10.0 pebbles	85	15	SA				
22				Bedrock: 10.0-11.5							
23				Light gray sericite schist (sandstone-siltstone). Fine grained. Weak schistosity.							
24				Carbonate veinlets 2%, a few of the 1mm thick veinlets are rusted.							
25				Pyrite < 1%, and pyrrhotite?							
26				Organics in the rod, contamination of sample.							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 1 19 87

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO L DV-T- 763 LOCATION L 52 E / 4 + 00 N

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68638 BIT FOOTAGE 390-499

MOVE TO HOLE Shift starts

DRILL 7:30 - 8:55

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 9:05

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	1/5%	Gr %	Shape				
1				0.0 - 1.8 Organics							
2				1.8 - 9.4 Till, clay coatings, clay balls							
3				9.4 - 10.9 Bedrock							
4			1	Boulders:							
5				9.0 - 9.4 sandstone							
6			2								
7				Matrix:							
8			3	1.8 - 9.4 gray-green gritty silt							
9				clay balls appear from 6.3 - 6.9							
10			4								
11				Clasts:							
12			5	1.8 - 3.2 pebbles	75	25	SM-SR				
13				3.2 - 6.3 pebbles	90	10	SM				
14				6.3 - 6.9 granules and cobbles	85	15					
15				6.9 - 9.4 pebbles	90	10					
16											
17				Bedrock: 9.4 - 10.9							
18				Dark gray-green chlorite schist.							
				Slightly sheared. Minor sericite.							
				Trace pyrite. Veinlets of							
				carbonate 2%.							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Febl 1907

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT. HOURS

HOLE NO LDVT-764 LOCATION L 50 E ; 4+00 N

GEOLOGIST Mac Neil DRILLER Hewg BIT NO. CB68638 BIT FOOTAGE 29.5-39.0

MOVE TO HOLE 4:30-4:45

DRILL 4:45 - 6:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-2.0 Poor, sporadic return - till; 2.0-7.9 = Till. 7.9-9.5 = Bedrock
1		01		0- 7.9 <u>Till</u>
2				<u>Boulders</u>
3				2.0-2.2 gabbro
4		02		2.9-3.0 diorite
5				5.9-6.1 granodiorite
6		03		<u>Matrix</u>
7				2.2-2.4 beige, moderately oxidized fine sand and silt
8		04		2.4-4.3 grey-beige, unoxidized fine sand and silt
9	L DVT 764 Brx			4.3-4.6 grey-beige, fine sand and silt and minor gritty clay
10				4.6-5.1 grey-beige, gritty clay
11				5.1-7.9 grey-beige, fine sand and silt with minor gritty clay
12				<u>Clasts</u>
13				0.0-5.1 abundant cobbles; clast composition - 50% volcanics and sediments; 50% granitoids
14				5.1-7.9 cobbles; clast composition - 60-65% volcanics/sediments and 35-40% granitoids
15				7.9-9.5 <u>Bedrock</u> :- siltstone/wacke :- light to medium grey; fine to very fine grained; strongly schistose - sericitic / chloritic foliation planes (chlorite-sericite schists); schistosity planes locally display a spotted appearance due to incipient growth of porphyroblasts; local oxidation confined to or parallel to schistosity planes
16				
17				
18				
19				
20				

9.5m EOH

REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 1 1907 HOLE NO LDVT-765 LOCATION L 48E ; 4+00N
 GEOLOGIST Mac Neil DRILLER Howe BIT NO. CB68638 BIT FOOTAGE 20-29.5
 SHIFT HOURS _____ MOVE TO HOLE 2:30 - 2:45
 _____ TO _____ DRILL 2:45 - 4:36
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1				0-0.4 No Return-organics ± till. 0.4-8.1 = Till. 8.1-9.5 = Bedrock						
2			01	0.4-8.1 <u>Till</u>						
3				<u>Boulders</u>						
4			02	<u>Matrix</u>						
5				0.4-0.7 beige, fine sand and silt						
6			03	0.7-1.2 beige, oxidized gritty clay						
7				1.2-2.0 lose return						
8				2.0-2.3 beige, oxidized fine sand and silt						
9			04	2.3-2.4 grey, sand and silt						
10				2.4-4.9 grey, gritty clay						
11				4.9-6.3 grey fine sand and silt matrix with minor gritty clay lumps						
12				6.3-6.4 grey gritty clay matrix						
13				6.4-8.1 grey, fine sand and silt matrix						
14				<u>Clasts</u>						
15				0.4-6.4 - cobbles; clast composition 75% volcanics/sediments and 25% granitoids						
16				6.4-8.1 - cobbles; clast composition 85% volcanics/sediments and 15% granitoids						
17				8.1-9.5 <u>Bedrock</u> :- mudstone						
18				dark grey; very fine grained; fissile with silvery, sericitic foliation planes; ~20% quartz carbonate stringers except from 8.2-8.3 where 10% of return is quartz- carbonate vein material; trace pyrite as "smears" along foliation planes						
19										
20				9.5m EOH						

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 / Feb 1 1987

SHIFT HOURS

_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-766 LOCATION L 46E; 4+00N

GEOLOGIST Mac Neil DRILLER J Howg BIT NO. CB68638 BIT FOOTAGE 11-20

MOVE TO HOLE 23:45 - 00:00

DRILL 00:00 - 2:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN ETRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-0.8 No Return:-0.0-0.4 no resistance to penetration - organics. 0.4 - intersect cobbles - till. Poor return 0.8-2.3-0.4 - 7.5=Till - 7.5-9.0 = Bedrock
1				
2		01		0.4-7.5 Till
3				Boulders
4				0.8-1.1 intermediate volcanic
5		02		5.8-6.0 gabbro
6				Matrix
7				0.8-2.0 brown, oxidized fine sand and silt
8		03		2.0-6.8 grey-beige fine sand and silt
9				6.8-7.4 grey gritty clay matrix
10				7.4-7.5 grey fine sand and silt
11				Clasts
12				0.4-6.8 cobbles abundant; clast composition - 75-80% volcanics/ sediments, 20-25% granitoids
13				6.8-7.5 pebbles - clast composition as from 0.4-6.8
14				7.5-9.0 Bedrock :- siltstone/mudstone - dark grey to black; very fine grained; fissile; sparse (<0.1%) disseminated pyrite; calcite veins (to 2mm in width) and stringers paralleling foliation - <5% of sample
15				9.0m EOH
16				
17				
18				
19				
20				

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 19 82

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDV-T-767 LOCATION L44E/400N

GEOLOGIST R. Leber DRILLER D. Lind BIT NO. CB68637 BIT FOOTAGE 36.9-43.9

MOVE TO HOLE 17:25-17:35 CB68638 0.0-11.0

DRILL 17:50-19:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	%s %	Gr %	Shape				
1			1	0.0-0.4 No recovery							
2			2	0.4-0.6 Beige sand							
3			3	0.6-1.1 No recovery							
4			4	1.1-1.5 Red sand							
5			5	1.5-1.9 No recovery							
6			6	2.6-9.9 Till, clay coatings							
7			7	9.9-11.0 Bedrock							
8			8	Boulders:							
9			9	none							
10			10	Matrix:							
11			11	2.6-5.2 fine beige sand and silt							
12			12	5.2-6.4 gray-green fine sand							
13			13	and silt							
14			14	6.4 - gray-green silt and fine							
15			15	sand							
16			16	clasts:							
17			17	0.4-0.6 pebbles	50	50					
18			18	2.6-3.9 cobbles and pebbles	70	30					
19			19	3.9-4.2 cobbles	50	50					
20			20	4.2-5.2 cobbles	60	40					
21			21	5.2-6.2 pebbles	50	50					
22			22	6.2 - cobbles	70	30					
23			23	Hole continued by Kenzie MacNeil.							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 1987

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO LDVT-767A LOCATION L44E; 4+00N

GEOLOGIST MacNeil DRILLER Hewy BIT NO. CB60638 BIT FOOTAGE 0-11

MOVE TO HOLE

DRILL 20:15 - 23:45

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE

*New Bit

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
1			1	0-1.8 No Return - cobbles present in till. 1.8-9.9 = Till. 9.9-11.0 = Bedrock	Hole 767A is a re-drill of LDVT-767. After changing bit due to loss of cones, moved ~3m E to avoid drilling the cones if we went back down same hole. Begin sampling at 7m - sample numbers start at LDVT-767A-06					
2			2	0-9.9 <u>Till</u>						
3			3	<u>Boulders</u> 7.9-8.2 intermediate volcanic						
4			4	<u>Matrix</u> 1.8-4.5 beige, fine to medium sand - silt more prominent below 2.5m						
5			5	4.5-5.8 beige to grey-beige, fine sand and silt matrix; matrix slightly more abundant than from 1.8-4.5						
6			6	5.8-9.9 grey, fine sand and silt with minor, local grey gritty clay lumps						
7			7							
8			8							
9			9							
10			10							
11			11							
12			12							
13			13							
14			14							
15			15							
16			16							
17			17							
18			18							
19			19							
20			20							

REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan-31 19 87 HOLE NO LDVT-768 LOCATION L42E/400N
GEOLOGIST R. Leber DRILLER D. Lind BIT NO. C868636 BIT FOOTAGE 32.7-36.9
SHIFT HOURS MOVE TO HOLE 16:25-16:35
____TO____ DRILL 16:40-17:15
TOTAL HOURS MECHANICAL DOWN TIME _____
____ DRILLING PROBLEMS _____
CONTRACT HOURS OTHER _____
____ MOVE TO NEXT HOLE 17:25

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
0				0.0 - 1.6 no recovery						
1				1.6 - 2.6 brown (oxidized) fine sand and gravel						
2		1								
3				Boulders:						
4				none						
5										
6				Matrix:						
7				1.6 - 2.6 beige sand and coarse silt						
8										
9				clasts:						
10				1.6 - 2.6 pebbles	60	40	SR-R			
11										
12				Bedrock: 2.6 - 4.2						
13				Dull gray-rust red sericite-						
14				Fe- carbonate schist (fine						
15				grained sandstone). Moderate						
16				to weak schistosity. Abundant						
17				Fe staining. No visible pyrite.						
18				Small minor carbonate veinlets						
19				2%						
20										

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

CLAST:

SIZE OF CLAST:

- G: GRANULES
- P: PEBBLES
- C: COBBLES
- BL: BOULDER CHIPS
- BK: BEDROCK CHIPS

% CLAST COMPOSITION

- V/S VOLCANICS AND SEDIMENTS
- GR GRANITICS
- LS LIMESTONE
- OT OTHER LITHOLOGIES (REFER TO FOOTNOTES BELOW)
- TR ONLY TRACE PRESENT
- NA NOT APPLICABLE

MATRIX:

- | | | | |
|-----|--------------------|---|----------------------|
| S/U | SORTED OR UNSORTED | | |
| SD | SAND | Y | YES FRACTION PRESENT |
| ST | SILT | N | FRACTION NOT PRESENT |
| CY | CLAY | | |
| | | F | FINE |
| | | M | MEDIUM |
| | | C | COARSE |

COLOR:

- B: BEIGE
- GY: GREY
- GB: GREY BEIGE
- GN: GREEN
- GG: GREY GREEN
- BN: BROWN
- BK: BLACK
- OC: OCHRE
- PK: PINK
- OE: ORANGE

DESCRIPTION:

- BLD: BOULDER CHIPS
- BDK: BEDROCK CHIPS

ABBREVIATIONS

NUMBER OF GRAINS:

T: NUMBER FOUND ON SHAKING TABLE
P: NUMBER FOUND AFTER PANNING

THICKNESS:

C: CALCULATED THICKNESS OF GRAIN
M: ACTUAL MEASURED THICKNESS OF GRAIN

FOOTNOTES:

- A GRITTY CLAY LUMPS PRESENT
- B SMOOTH CLAY LUMPS PRESENT
- C ORGANICS PRESENT
- D SAMPLE HIGHLY OXIDIZED

OCT.86

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)					AU	DESCRIPTION										CLASS		
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M. I. CONC					NO. V.G.	CALC PPB	CLAST				MATRIX						
					M.I. LIGHTS	CONC. TOTAL	NON MAG	MAG				SIZE	%			S/U	SD	ST	CY		COLOR	
													V/S	GR	LS						OT	SD
LDVT-86																						
299-02	9.7	0.8	8.9	67.9	46.2	21.7	14.9	6.8	5	72	P,6	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
301-01	10.7	1.4	9.3	134.7	112.0	22.7	15.5	7.2	7	420	P,6	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	10.5	1.2	9.3	144.1	113.1	31.0	22.8	8.2	8	68	P,6	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
302-02	10.2	1.2	9.0	88.0	56.5	31.5	21.9	9.6	5	89	P	80	20	NA	NA	U	Y	Y	Y	GB	GY	TILL
303-01	10.0	1.0	9.0	110.5	91.7	18.8	13.2	5.6	9	337	P	80	20	NA	NA	U	Y	Y	Y	GB	B	TILL
-02	11.2	1.4	9.8	109.0	82.0	27.0	18.7	8.3	2	55	P	80	20	NA	NA	U	Y	Y	Y	GB	GY	TILL
304-01	10.7	1.3	9.4	110.4	84.7	25.7	18.6	7.1	8	151	P	90	10	NA	NA	U	Y	Y	Y	GY	GY	TILL
305-01	10.8	1.2	9.6	67.1	45.3	21.8	14.5	7.3	6	246	P	85	15	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	10.9	1.2	9.7	58.2	36.6	21.6	15.2	6.4	5	224	P	90	10	NA	NA	U	Y	Y	Y	GY	GY	TILL
306-01	9.3	1.2	8.1	58.5	45.6	12.9	11.9	1.0	4	583	P	85	15	NA	NA	U	Y	Y	Y	GB	BN	TILL
-02	9.4	1.0	8.4	80.7	63.6	17.1	12.5	4.6	8	178	P	90	10	NA	NA	U	Y	Y	Y	GB	B	TILL
307-01	10.3	1.2	9.1	59.5	42.2	17.3	11.6	5.7	0	NA	P,6	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
-02	10.0	1.1	8.9	80.2	64.7	15.5	10.7	4.8	5	620	P,6	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
308-01	10.8	1.4	9.4	89.8	68.3	21.5	14.1	7.4	8	364	P	80	20	NA	NA	U	Y	Y	Y	B	B	TILL
-02	8.2	0.6	7.6	63.0	54.0	9.0	6.7	2.3	1	56	P	90	10	NA	NA	U	Y	Y	Y	GY	GY	TILL
310-01	7.9	0.9	7.0	149.8	125.9	23.9	17.1	6.8	7	235	P,6	70	30	NA	NA	U	Y	Y	Y	B	B	TILL
-02	11.3	1.4	9.9	158.0	132.2	25.8	17.0	8.8	14	661	P	70	30	NA	NA	U	Y	Y	Y	GB	B	TILL
311-01	9.2	0.9	8.3	112.0	79.5	32.5	24.2	8.3	9	131	P	80	20	NA	NA	U	Y	Y	Y	GB	B	TILL
-02	10.5	1.0	9.5	152.3	123.2	29.1	19.2	9.9	12	336	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
312-01	10.5	1.4	9.1	185.8	165.7	20.1	13.5	6.6	6	234	P	85	15	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	10.8	1.4	9.4	119.1	97.3	21.8	14.9	6.9	5	549	P	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
314-01	10.3	1.0	9.3	118.5	98.5	20.0	13.2	6.8	8	576	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	9.9	0.9	9.0	121.4	100.6	20.8	13.8	7.0	5	101	P	85	15	NA	NA	U	Y	Y	Y	GB	GB	TILL
315-01	9.2	0.9	8.3	66.6	47.9	18.7	12.2	6.5	6	240	P	80	20	NA	NA	U	Y	Y	Y	B	B	TILL
302-01	10.5	1.1	9.4	110.8	89.9	20.9	13.2	7.7	12	623	P	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
317-01	10.7	1.1	9.6	115.1	101.6	13.5	10.0	3.5	7	177	P	60	40	NA	NA	U	Y	Y	Y	B	B	TILL
-02	11.1	1.4	9.7	113.6	90.4	23.2	15.1	8.1	6	66	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
318-01	10.7	1.0	9.7	120.3	99.7	20.6	13.3	7.3	10	355	P	40	60	NA	NA	U	Y	Y	Y	B	B	TILL
-02	10.5	1.1	9.4	138.3	114.6	23.7	15.7	8.0	9	201	P	20	80	NA	NA	U	Y	Y	Y	GY	GY	TILL
501-01	9.1	0.0	9.1	118.9	85.9	33.0	22.9	10.1	4	144	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	7.3	0.0	7.3	111.4	88.7	22.7	17.0	5.7	6	117	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
-03	6.9	0.0	6.9	158.4	131.8	26.6	17.6	9.0	6	340	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
-04	8.6	0.0	8.6	142.4	115.7	26.7	15.6	11.1	1	41	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL&BDK
502-01	2.4	0.0	2.4	104.4	90.1	14.3	11.9	2.4	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	BN	B	TILL
-02	2.3	0.0	2.3	106.8	97.5	9.3	6.1	3.2	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	BN	TILL
-03	2.5	0.0	2.5	46.1	38.5	7.6	4.7	2.9	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	GG	TILL
503-01	8.1	0.0	8.1	227.4	206.6	20.8	16.8	4.0	3	195	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
4-01	2.4	0.0	2.4	107.3	90.1	17.2	12.5	4.7	8	462	TR	NA	NA	NA	NA	U	Y	Y	Y	B	BN	TILL
507-01	4.4	0.0	4.4	120.4	112.2	8.2	6.8	1.4	2	57	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
508-01	3.9	0.0	3.9	128.8	110.1	18.7	12.4	6.3	2	37	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
-02	7.5	0.0	7.5	63.3	44.7	18.6	11.7	6.9	3	542	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
-03	7.5	0.0	7.5	98.1	69.3	28.8	19.9	8.9	6	522	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
-04	8.3	0.0	8.3	91.5	63.0	28.5	19.7	8.8	3	87	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
509-01	3.5	0.0	3.5	61.1	44.2	16.9	13.0	3.9	3	45	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL

20CT.86

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION							CLASS	
			M. I. CONC						CLAST			MATRIX						
TABLE	+10	TABLE	TABLE	M.I.	CONC.	NON	NO.	CALC	SIZE	%	S/U	SD	ST	CY	COLOR			
SPLIT	CHIPS	FEED	CONC	LIGHTS	TOTAL	MAG	MAG	V.G.	PPB									
										V/S	GR	LS	OT		SD	CY		
LDVT-86																		
-02	9.1	0.0	9.1	74.0	48.7	25.3	18.3	7.0	5	2131	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-03	9.1	0.0	9.1	70.0	46.6	23.4	17.6	5.8	6	548	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-04	3.5	0.0	3.5	41.6	18.4	23.2	16.1	7.1	1	40	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
510-01	8.3	0.0	8.3	117.4	81.2	36.2	27.3	8.9	3	255	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-02	8.5	0.0	8.5	144.9	110.3	34.6	25.8	8.8	6	56	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-03	6.0	0.0	6.0	194.1	171.8	22.3	18.2	4.1	3	632	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
511-01	4.6	0.0	4.6	138.8	120.6	18.2	11.7	6.5	1	16	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-02	5.0	0.0	5.0	90.1	71.8	18.3	13.0	5.3	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-03	5.5	0.0	5.5	114.8	97.7	17.1	12.2	4.9	1	83	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-04	3.0	0.0	3.0	113.0	100.6	12.4	9.5	2.9	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-05	5.2	0.0	5.2	109.6	91.0	18.6	13.7	4.9	1	2	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-06	8.3	0.0	8.3	194.0	153.4	40.6	32.6	8.0	0	NA	TR	NA	NA	NA	NA	U Y Y Y 6Y 6Y TILL		
-07	8.7	0.0	8.7	133.6	94.8	38.8	30.1	8.7	1	1	TR	NA	NA	NA	NA	U Y Y Y 6Y 6Y TILL		
-08	6.4	0.0	6.4	70.7	49.2	21.5	17.4	4.1	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-09	9.1	0.0	9.1	129.6	90.2	39.4	31.2	8.2	2	215	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-10	8.8	0.0	8.8	54.2	27.9	26.3	19.5	6.8	7	425	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-11	9.9	0.0	9.9	95.2	63.1	32.1	23.3	8.8	4	198	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
500-01	8.4	0.0	8.4	69.4	39.5	29.9	20.2	9.7	7	1907	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-02	3.4	0.0	3.4	66.1	53.6	12.5	11.0	1.5	11	394	TR	NA	NA	NA	NA	U Y Y Y 66 6Y TILL		
512-01	4.6	0.0	4.6	43.0	24.9	18.1	13.4	4.7	1	28	TR	NA	NA	NA	NA	U Y Y Y 66 6Y TILL		
-02	6.2	0.0	6.2	187.8	168.5	19.3	13.8	5.5	6	51	TR	NA	NA	NA	NA	U Y Y Y 66 6Y TILL		
513-01	2.2	0.0	2.2	34.2	29.0	5.2	4.2	1.0	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 6Y TILL		
514-01	3.0	0.0	3.0	136.2	124.9	11.3	7.3	4.0	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-02	3.6	0.0	3.6	223.9	208.9	15.0	8.6	6.4	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-03	7.6	0.0	7.6	302.9	218.8	84.1	64.9	19.2	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-04	2.6	0.0	2.6	93.7	82.7	11.0	9.4	1.6	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
-05	5.2	0.0	5.2	175.6	147.5	28.1	22.2	5.9	0	NA	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
515-01	4.7	0.0	4.7	94.7	74.4	20.3	15.1	5.2	5	327	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		
516-01	3.5	0.0	3.5	60.7	46.6	14.1	10.4	3.7	3	34	TR	NA	NA	NA	NA	U Y Y Y 66 66 TILL		

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			

LDVT-86

299-02	Y	25 X 25	5 C		2					2	NO SULPHIDES
		50 X 50	10 C		2				2		
		50 X 100	15 C		1				1		

TOTAL	5	14.9	72
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301-01	Y	25 X 25	5 C		1					1	NO SULPHIDES
		25 X 50	8 C		1				1		
		75 X 75	15 C		2				2		
		100 X 100	20 C		2				2		
		100 X 125	22 C	1					1		

TOTAL	7	15.5	420
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-02	Y	25 X 25	5 C		1				1	2	EST. 3% PYRITE
		25 X 50	8 C		1				1		
		50 X 50	10 C		3			1	4		
		75 X 75	15 C		1				1		

TOTAL	8	22.8	68
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302-02	Y	50 X 50	10 C		1				1	EST. 3% PYRITE
		50 X 75	13 C		3				3	
		50 X 100	15 C		1				1	

TOTAL	5	21.9	89
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303-01	Y	25 X 25	5 C		3				3	NO SULPHIDES
		25 X 50	8 C		1				1	
		50 X 50	10 C		2				2	
		50 X 75	13 C		1				1	
		50 X 100	15 C		1				1	
		125 X 125	25 C			1			1	

TOTAL	9	13.2	337
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-02	Y	25 X 25	5 C		1				1	EST. 30% PYRITE
		75 X 100	18 C					1	1	

TOTAL	2	18.7	55
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304-01	Y	25 X 25	5 C		1				1	EST. 30% PYRITE 0.25% MARCASITE
		50 X 50	10 C		2				2	
		50 X 75	13 C		3				3	
		50 X 100	15 C		2				2	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD2OCT.86

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			

LDVT-86

TOTAL	8	18.6	151
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305-01	Y	25 X 25	5 C	1			1				EST. 0.5% PYRITE
		50 X 50	10 C	2			2				
		75 X 75	15 C	1			1				
		75 X 100	18 C	1			1				
		75 X 125	20 C	1			1				

TOTAL	6	14.5	246
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-02	Y	25 X 50	8 C	1			1				EST. 20% PYRITE
		50 X 50	10 C	1			1				
		50 X 75	13 C	1			1				
		75 X 75	15 C	1			1				
		75 X 150	22 C	1			1				

TOTAL	5	15.2	224
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306-01	Y	25 X 25	5 C	1			1				EST. 15% PYRITE
		50 X 50	10 C		1		1				
		100 X 150	25 C	1			1				
		100 X 175	27 C		1		1				

TOTAL	4	11.9	583
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-02	Y	25 X 25	5 C	1		2	3				EST. 8% PYRITE 10 GRAINS MARCASITE
		25 X 50	8 C		1		1				
		25 X 75	10 C		1		1				
		50 X 50	10 C	1	1		2				
		75 X 125	20 C	1			1				

TOTAL	8	12.5	178
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307-01 Y NO VISIBLE GOLD

NO SULPHIDES

-02	Y	25 X 25	5 C	1		1	2				NO SULPHIDES
		50 X 100	15 C	1			1				
		75 X 100	18 C	1			1				
		125 X 175	29 C	1			1				

TOTAL	5	10.7	620
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308-01	Y	25 X 50	8 C	1		1	2				NO SULPHIDES
		50 X 50	10 C	3		1	4				

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			

LDVT-86

50 X 75	13 C	1										
100 X 175	27 C	1										

TOTAL	8	14.1	364
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-02	Y	50 X 75	13 C	1								
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EST. 10% PYRITE

TOTAL	1	6.7	56
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310-01	Y	25 X 25	5 C	2								
		25 X 100	13 C	1								
		50 X 50	10 C	1								
		50 X 100	15 C	1		1						
		100 X 125	22 C	1								

NO SULPHIDES

TOTAL	7	17.1	235
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-02	Y	25 X 25	5 C	3		1						
		25 X 50	8 C	2								
		25 X 75	10 C	1								
		25 X 100	13 C	1								
		50 X 75	13 C	2								
		50 X 100	15 C	1								
		75 X 75	15 C	2								
		100 X 250	34 C	1								

NO SULPHIDES

TOTAL	14	17.0	661
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311-01	Y	25 X 25	5 C			1						
		25 X 50	8 C	2		1						
		25 X 75	10 C	1								
		50 X 50	10 C	1								
		50 X 75	13 C	1								
		75 X 75	15 C	1								
		75 X 125	20 C	1								

NO SULPHIDES

TOTAL	9	24.2	131
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-02	Y	25 X 25	5 C	4								
		50 X 50	10 C	3								
		50 X 75	13 C	1		1						
		50 X 100	15 C	1								
		100 X 100	20 C	1								
		100 X 150	25 C	1								

NO SULPHIDES

GOLD CLASSIFICATIONVISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			

LDVT-86

TOTAL 12 19.2 336

312-01	Y	25 X 75	10 C		1					1	NO SULPHIDES
		50 X 50	10 C		1				1		
		50 X 75	13 C		1		1		2		
		75 X 100	18 C	1	1			2			

TOTAL 6 13.5 234

-02	Y	25 X 25	5 C				2	1	3	NO SULPHIDES
		50 X 75	13 C				1	1		
		175 X 175	34 C		1			1		

TOTAL 5 14.9 549

314-01	Y	25 X 25	5 C				1	1	NO SULPHIDES
		25 X 50	8 C				2	2	
		50 X 50	10 C		1			1	
		50 X 100	15 C		1			1	
		75 X 75	15 C			1		1	
		75 X 100	18 C		1			1	
150 X 150	29 C		1			1			

TOTAL 8 13.2 576

-02	Y	25 X 25	5 C					1	1	NO SULPHIDES
		25 X 50	8 C		1			1		
		50 X 50	10 C		1		1	2		
		75 X 100	18 C		1			1		

TOTAL 5 14.9 101

315-01	Y	25 X 25	5 C		2			2	NO SULPHIDES
		50 X 50	10 C		1			2	
		50 X 75	13 C	1				1	
		100 X 125	22 C			1		1	

TOTAL 6 12.2 240

302-01	Y	25 X 25	5 C				3	2	5	NO SULPHIDES
		25 X 50	8 C		1			1		
		50 X 50	10 C					1		
		50 X 75	13 C			1		2		
		50 X 100	15 C	1				1		
		75 X 125	20 C		1			1		

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			
LDVT-86		100 X 200	29 C				1			1		

501-1

501-2

GOLD CLASSIFICATIONVISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			

LDVT-86

-03	Y	25 X 50	8 C		1					1	EST. 5% PYRITE 50 PELLETS MARCASITE
		50 X 50	10 C		3				3		
		75 X 125	20 C		1				1		
		100 X 175	27 C		1				1		

TOTAL	6	17.6	340
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-04	Y	75 X 75	15 C		1				1	EST. 25% PYRITE 300 GRAINS ARSENOPYRITE
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TOTAL	1	15.6	41
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502-01 Y NO VISIBLE GOLD

-02 Y NO VISIBLE GOLD

-03 Y NO VISIBLE GOLD

503-01	Y	50 X 50	10 C		2				2	EST. 1% PYRITE 30 GRAINS ARSENOPYRITE
		100 X 150	25 C			1			1	

TOTAL	3	16.8	195
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504-01	Y	50 X 50	10 C		2		1		1	EST. 3% PYRITE
		50 X 75	13 C				1	1		
		75 X 100	18 C			1		1		
		75 X 125	20 C			1		1		
		75 X 150	22 C			1		1		

TOTAL	8	12.5	462
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507-01	Y	50 X 50	10 C					2	2	EST. 1% PYRITE 50 PELLETS MARCASITE
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TOTAL	2	6.8	57
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508-01	Y	25 X 50	8 C					1	1	NO SULPHIDES
		50 X 75	13 C					1	1	

TOTAL	2	12.4	37
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-02	Y	75 X 100	18 C					1	1	NO SULPHIDES
		100 X 100	20 C					1	1	
		125 X 150	27 C	1				1	1	

TOTAL	3	11.7	542
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501-3

501-4

502-1

502-2

502-3

503-1

504-1

507-1

508-1

508-2

GOLD CLASSIFICATIONVISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
					T	P	T	P	T	P			

LDVT-86

-03	Y	25 X 25	5 C		2						2	EST. 0.5% PYRITE
		50 X 50	10 C					1	1			
		50 X 125	18 C					1	1			
		125 X 125	25 C					1	1			
		125 X 200	31 C					1	1			

TOTAL	6	19.9	522
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508-3

-04	Y	25 X 25	5 C		1						1	EST. 1% PYRITE
		50 X 50	10 C					1	1			
		100 X 100	20 C					1	1			

TOTAL	3	19.7	87
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508-4

509-01	Y	25 X 25	5 C				1				1	EST. 0.5% PYRITE
		50 X 50	10 C					1	1			
		50 X 75	13 C					1	1			

TOTAL	3	13.0	45
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509-1

-02	Y	25 X 25	5 C		2						2	EST. 20% PYRITE 2% ARSENOPYRITE (FINE)
		50 X 75	13 C					1	1			
		75 X 150	22 C					1	1			
		250 X 350	54 C	1				1	1			

TOTAL	5	18.3	2131
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509-2

-03	Y	50 X 50	10 C		1						1	EST. 20% PYRITE 1% ARSENOPYRITE (FINE)
		50 X 75	13 C					1	1			
		75 X 100	18 C					2	2			
		100 X 125	22 C					1	1			
		100 X 200	29 C				1	1	1			

TOTAL	6	17.6	548
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509-3

-04	Y	75 X 75	15 C		1						1	EST. 40% PYRITE 500 GRAINS ARSENOPYRITE (FINE)
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TOTAL	1	16.1	40
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509-4

510-01	Y	25 X 50	8 C		1						1	EST. 30% PYRITE
		50 X 100	15 C					1	1			
		150 X 175	31 C					1	1			

TOTAL	3	27.3	255
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510-1

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			

LDVT-86

-02	Y	25 X 25	5 C	1				1	2		EST. 10% PYRITE	510-2	
		50 X 50	10 C	2					2				
		50 X 75	13 C	1					1				
		50 X 100	15 C	1					1				
TOTAL										6	25.8	56	
-03	Y	25 X 25	5 C	1					1		EST. 20% PYRITE	510-3	
		25 X 50	8 C	1					1				
		200 X 200	38 C	1					1				
TOTAL										3	18.2	632	
511-01	Y	50 X 50	10 C	1					1		NO SULPHIDES	511-1	
TOTAL										1	11.7	16	
-02	Y	NO VISIBLE GOLD									EST. 0.5% PYRITE	511-2	
-03	Y	50 X 125	18 C	1					1		EST. 0.25% PYRITE	511-3	
TOTAL										1	12.2	83	
-04	Y	NO VISIBLE GOLD									EST. 3% PYRITE	511-4	
-05	Y	25 X 25	5 C	1					1		EST. 0.5% PYRITE	511-5	
TOTAL										1	13.7	2	
-06	Y	NO VISIBLE GOLD									EST. 1% PYRITE	511-6	
-07	Y	25 X 25	5 C					1	1		EST. 1% PYRITE	511-7	
TOTAL										1	30.1	1	
-08	Y	NO VISIBLE GOLD									EST. 0.25% PYRITE	511-8	
-09	Y	100 X 150	25 C	1					1		EST. 1% PYRITE	511-9	
		125 X 150	27 C	1					1				
TOTAL										2	31.2	215	
-10	Y	25 X 25	5 C	1					1		EST. 1% PYRITE	511-10	
		25 X 50	8 C	1					1				

GOLD CLASSIFICATIONVISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			

LDVT-86

50 X	50	10 C	1							1		
50 X	75	13 C	2							2		
75 X	100	18 C	1							1		
150 X	175	31 C	1							1		
TOTAL										7	19.5	425

-11	Y	25 X	25	5 C	1					1		EST. 1% PYRITE
		50 X	50	10 C	1					1		
		50 X	150	20 C			1			1		
		125 X	125	25 C	1					1		
TOTAL										4	23.3	198

511-11

500-01	Y	25 X	25	5 C			1			1		EST. 20% PYRITE
		25 X	75	10 C	1					1		20 GRAINS MARCASITE
		50 X	50	10 C				1		1		
		50 X	75	13 C	1					1		
		50 X	100	15 C	1					1		
		75 X	75	15 C	1					1		
		250 X	350	54 C	1					1		
TOTAL										7	20.2	1907

500-1

-02	Y	25 X	25	5 C	1		1			2		EST. 20% PYRITE
		25 X	50	8 C			1			1		
		50 X	50	10 C	1					1		
		50 X	75	13 C	1	3	1			5		
		50 X	100	15 C	1					1		
		75 X	125	20 C	1					1		
TOTAL										11	11.0	394

500-2

512-01	Y	50 X	75	13 C	1					1		EST. 0.25% PYRITE
TOTAL										1	13.4	28

512-1

-02	Y	25 X	25	5 C	2					2		EST. 1% PYRITE
		25 X	50	8 C				1		1		
		25 X	75	10 C	2					2		
		50 X	50	10 C	1					1		
TOTAL										6	13.8	51

512-2

513-01 Y NO VISIBLE GOLD

EST. 2% PYRITE

513-1

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD20CT.86

NUMBER OF GRAINS

SAMPLE #	PANNED	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		NON MAG	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			

LDVT-86

514-01	Y	NO VISIBLE GOLD										EST. 0.5% PYRITE	514-1
-02	Y	NO VISIBLE GOLD										EST. 15% PYRITE	514-2
-03	Y	NO VISIBLE GOLD										EST. 20% PYRITE	514-3
-04	Y	NO VISIBLE GOLD										EST. 20% PYRITE	514-4
-05	Y	NO VISIBLE GOLD										EST. 15% PYRITE	514-5
515-01	Y	25 X	50	8 C				1		1		EST. 1% PYRITE	515-1
		50 X	50	10 C	1			1		2			
		75 X	75	15 C	1					1			
		100 X	175	27 C		1				1			

TOTAL	5	15.1	327
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516-01	Y	25 X	50	8 C	2				2		EST. 0.25% PYRITE	516-1
		50 X	50	10 C	1				1			

TOTAL	3	10.4	34
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OVERBURDEN DRILLING MANAGEMENT LIMITED

107-15 CAPELLA COURT, NEPEAN, ONTARIO K2E 7X1 (613) 226-1771

February 04, 1987

Esso Minerals Canada
153 A rue Perreault
Val d'Or, Quebec
JOP 2H1

Attention: Mr. M. Durocher

Dear Sir:

Re: Sample Series - LDVT 593-01 to 617-01, 40 samples.

Please find enclosed our laboratory sample logs from the sample series as listed above. The non-magnetic heavy mineral concentrates were forward on February 04, 1987 to X-Ray Assay.

Should you require any additional information please do not hesitate to contact the undersigned.

Yours truly,

Opitha Edwards

for Kevan Elcomb
Laboratory Manager

KE:lk
Enc.

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

CLAST:

SIZE OF CLAST:

G: GRANULES
F: PEBBLES
C: COBBLES
BL: BOULDER CHIPS
BK: BEDROCK CHIPS

% CLAST COMPOSITION

V/S VOLCANICS AND SEDIMENTS
GR GRANITICS
LS LIMESTONE
OT OTHER LITHOLOGIES (REFER TO FOOTNOTES BELOW)
TR ONLY TRACE PRESENT
NA NOT APPLICABLE

MATRIX:

S/U SORTED OR UNSORTED
SD SAND | Y YES FRACTION PRESENT | F: FINE
ST SILT | N FRACTION NOT PRESENT | M: MEDIUM
CY CLAY | | C: COARSE

COLOR:

B: BEIGE
GY: GREY
GB: GREY BEIGE
GN: GREEN
GG: GREY GREEN
BN: BROWN
BK: BLACK
OC: OCHRE
PK: PINK
OE: ORANGE

DESCRIPTION:

BLD: BOULDER CHIPS
BDK: BEDROCK CHIPS

FEB.WR1

OVERBURDEN DRILLING MANAGEMENT LIMITED

OF SAMPLES IN THIS REPORT = 40

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION										CLASS	
				M. I. CONC						CLAST										MATRIX	
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	NO. V.G.	CALC PPB	SIZE	%					S/U	SD	ST	CY	COLOR	
												V/S	GR	LS	OT					SD	CY
LDVT-B7																					
593-01	3.5	0.0	3.5	168.3	151.5	16.8	12.6	4.2	1	51	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-02	2.5	0.0	2.5	105.4	92.6	12.8	9.9	2.9	1	38	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-03	4.3	0.0	4.3	124.8	101.6	23.2	17.6	5.6	1	11	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-04	4.8	0.0	4.8	82.8	60.4	22.4	16.5	5.9	3	36	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-05	4.5	0.0	4.5	125.6	103.1	22.5	16.8	5.7	1	22	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-06	2.8	0.0	2.8	76.7	63.0	13.7	10.6	3.1	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-07	4.0	0.0	4.0	128.5	102.6	25.9	20.6	5.3	1	49	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-08	4.0	0.0	4.0	188.3	96.1	92.2	34.2	58.0	2	22	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
594-01	3.7	0.0	3.7	114.7	93.1	21.6	16.6	5.0	1	128	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	TILL
-02	4.4	0.0	4.4	100.8	77.5	23.3	17.8	5.5	2	95	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-03	4.0	0.0	4.0	92.4	73.2	19.2	14.3	4.9	1	2	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-04	4.2	0.0	4.2	91.8	73.0	18.8	14.3	4.5	1	13	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-05	2.0	0.0	2.0	49.6	39.1	10.5	8.7	1.8	3	74	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
595-01	3.9	0.0	3.9	76.7	55.3	21.4	15.1	6.3	1	99	TR	NA	NA	NA	NA	U	Y	Y	Y	B	TILL
-02	3.0	0.0	3.0	62.3	46.6	15.7	11.8	3.9	3	73	TR	NA	NA	NA	NA	U	Y	Y	Y	BGN	TILL
598-01	3.2	0.0	3.2	72.0	50.6	21.4	16.9	4.5	1	11	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-02	4.1	0.0	4.1	101.8	79.2	22.6	17.5	5.1	4	443	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	TILL
-03	4.3	0.0	4.3	97.4	75.5	21.9	16.7	5.2	2	13	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-04	2.9	0.0	2.9	80.8	64.3	16.5	13.2	3.3	1	15	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-05	3.5	0.0	3.5	105.6	89.6	16.0	12.4	3.6	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-06	6.0	0.0	6.0	75.9	52.9	23.0	17.5	5.5	1	86	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
599-01	6.1	0.0	6.1	114.9	89.7	25.2	18.4	6.8	4	33	TR	NA	NA	NA	NA	U	Y	Y	Y	BGN	TILL
-02	7.2	0.0	7.2	135.2	108.0	27.2	18.5	8.7	9	126	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	TILL
-03	8.7	0.2	8.5	159.8	124.4	35.4	24.8	10.6	1	1	P	85	15	NA	NA	U	Y	Y	Y	GB	TILL
-04	5.0	0.3	4.7	109.9	91.2	18.7	13.3	5.4	2	63	BK	98	2	NA	NA	U	Y	Y	Y	GB	TILL
600A-01	4.5	0.0	4.5	122.8	101.0	21.8	15.8	6.0	1	95	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	TILL
601-01	5.0	0.4	4.6	127.5	115.8	11.7	8.8	2.9	0	NA	C	60	40	NA	NA	U	Y	Y	Y	GB	TILL&BDK
603-01	3.7	0.0	3.7	209.4	189.2	20.2	13.0	7.2	6	215	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	TILL&BDK
605-01	6.4	0.3	6.1	69.3	36.7	32.6	24.1	8.5	0	NA	C, BD	80	20	NA	NA	U	Y	Y	Y	GG	TILL&BDK
606-01	6.2	0.0	6.2	115.2	85.7	29.5	22.6	6.9	3	45	TR	NA	NA	NA	NA	U	Y	Y	Y	B	TILL
-02	5.1	0.0	5.1	102.3	74.3	28.0	20.4	7.6	5	105	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	TILL
-03	3.7	0.0	3.7	106.6	85.0	21.6	16.3	5.3	3	69	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	TILL
-04	4.1	0.1	4.0	116.9	92.0	24.9	18.0	6.9	2	486	P	80	20	NA	NA	U	Y	Y	Y	GY	TILL
-05	6.6	0.0	6.6	178.4	143.5	34.9	24.2	10.7	3	56	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	TILL
-06	5.3	0.0	5.3	154.0	123.7	30.3	21.6	8.7	6	112	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	TILL
-07	2.8	0.0	2.8	88.6	72.0	16.6	12.7	3.9	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	TILL
613-01	6.7	0.6	6.1	260.3	226.8	33.5	14.4	19.1	0	NA	P, BK	NA	NA	NA	NA	U	Y	Y	Y	GG	TILL&BDK
-01	1.4	0.0	1.4	61.2	55.7	5.5	4.2	1.3	2	52	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	TILL&BDK
-02	3.1	0.0	3.1	143.0	136.5	6.5	5.4	1.1	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	TILL&BDK
617-01	2.3	0.0	2.3	75.7	61.7	14.0	10.6	3.4	2	281	TR	NA	NA	NA	NA	U	Y	Y	Y	B	TILL

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD1FEB.WR1

TOTAL # OF PANNINGS

40

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR				DELICATE				TOTAL MAG GMS	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P	T	P								

LVDT-87

593-01	Y	75 X	75	15 C		1								1		EST. 5% PYRITE	593-1
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1	12.6	51
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-02	Y	50 X	75	13 C		1								1		EST. 3% PYRITE	2
-----	---	------	----	------	--	---	--	--	--	--	--	--	--	---	--	----------------	---

1	9.9	38
---	-----	----

-03	Y	50 X	50	10 C		1								1		EST. 3% PYRITE	3
-----	---	------	----	------	--	---	--	--	--	--	--	--	--	---	--	----------------	---

1	17.6	11
---	------	----

-04	Y	25 X	25	5 C									1	1		EST. 10% PYRITE	4
-----	---	------	----	-----	--	--	--	--	--	--	--	--	---	---	--	-----------------	---

50 X	50	10 C		1									1	1		
------	----	------	--	---	--	--	--	--	--	--	--	--	---	---	--	--

50 X	75	13 C											1	1		
------	----	------	--	--	--	--	--	--	--	--	--	--	---	---	--	--

3	16.5	36
---	------	----

-05	Y	50 X	75	13 C		1								1		EST. 7% PYRITE	5
-----	---	------	----	------	--	---	--	--	--	--	--	--	--	---	--	----------------	---

1	16.8	22
---	------	----

-06	Y	NO VISIBLE GOLD														EST. 5% PYRITE	6
-----	---	-----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	----------------	---

-07	Y	75 X	100	18 C		1								1		EST. 7% PYRITE	7
-----	---	------	-----	------	--	---	--	--	--	--	--	--	--	---	--	----------------	---

1	20.6	49
---	------	----

-08	Y	50 X	75	13 C		2								2		EST. 7% PYRITE	8
-----	---	------	----	------	--	---	--	--	--	--	--	--	--	---	--	----------------	---

2	34.2	22
---	------	----

594-01	Y	100 X	125	22 C		1								1		EST. 1% PYRITE	594-1
--------	---	-------	-----	------	--	---	--	--	--	--	--	--	--	---	--	----------------	-------

1	16.6	128
---	------	-----

-02	Y	50 X	50	10 C		1								1		EST. 1% PYRITE	-2
-----	---	------	----	------	--	---	--	--	--	--	--	--	--	---	--	----------------	----

100 X	100	20 C		1										1		
-------	-----	------	--	---	--	--	--	--	--	--	--	--	--	---	--	--

2	17.8	95
---	------	----

-03	Y	25 X	25	5 C		1								1		EST. 3% PYRITE	-3
-----	---	------	----	-----	--	---	--	--	--	--	--	--	--	---	--	----------------	----

1	14.3	2
---	------	---

-04	Y	50 X	50	10 C									1	1		EST. 7% PYRITE	4
-----	---	------	----	------	--	--	--	--	--	--	--	--	---	---	--	----------------	---

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD1FEB.WR1

TOTAL # OF PANNINGS 40

ESLD1FEB.WR1				NUMBER OF GRAINS														
TOTAL # OF PANNINGS				40														
SAMPLE #	PANNED	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS					
				T	P	T	P	T	P									
LVDT-87																		
										1	14.3	13						
-05	Y	25 X 50	8 C		1					1			EST. 3% PYRITE					
		25 X 75	10 C		1					1								
		50 X 75	13 C		1					1								
										3	8.7	74						
595-01	Y	100 X 100	20 C		1					1			EST. 1% PYRITE					
										1	15.1	99						
-02	Y	25 X 25	5 C		1					1			EST. 1% PYRITE					
		50 X 50	10 C		1					1								
		50 X 100	15 C		1					1								
										3	11.8	73						
598-01	Y	50 X 50	10 C		1					1			EST. 20% PYRITE					
										1	16.9	11						
-02	Y	25 X 25	5 C		1					1			EST. 10% PYRITE					
		25 X 50	8 C				1			1								
		50 X 50	10 C							0								
		75 X 200	27 C	2						2								
										4	17.5	443						
-03	Y	25 X 25	5 C		1					1			EST. 7% PYRITE					
		50 X 50	10 C		1					1								
										2	16.7	13						
-04	Y	50 X 50	10 C		1					1			EST. 5% PYRITE					
										1	13.2	15						
-05	Y	NO VISIBLE GOLD												EST. 5% PYRITE				
-06	Y	100 X 100	20 C		1					1			EST. 10% PYRITE					
										1	17.5	86						
599-01	Y	25 X 25	5 C		1					1			EST. 1% PYRITE					
		50 X 50	10 C		3					3								

594-5

595-1

-2

598-1

-2

-3

-4

-5

-6

599-1

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD1FEB.WR1

TOTAL # OF PANNINGS

40

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR				DELICATE				TOTAL MAG GMS	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P	T	P	T	P	T	P				
LVDT-87																4	18.4	33	
-02	Y	25 X	25	5 C	3			1								4			EST. 1% PYRITE
		25 X	50	8 C	2											2			
		50 X	50	10 C	1											1			
		50 X	75	13 C	1											1			
		75 X	125	20 C	1											1			
																9	18.5	126	
-03	Y	25 X	25	5 C	1											1			NO SULPHIDES
																1	24.8	1	
-04	Y	50 X	50	10 C	1											1			EST. 1% PYRITE
		75 X	75	15 C	1											1			
																2	13.3	63	
600A-01	Y	100 X	100	20 C	1											1			EST. 5% PYRITE
																1	15.8	95	
601-01	Y	NO VISIBLE GOLD																	EST. 1% PYRITE
603-01	Y	25 X	25	5 C				1								1			EST. 1% PYRITE
		50 X	75	13 C	3											3			
		50 X	100	15 C	1											1			
		75 X	100	18 C								1				1			
																6	13.0	215	
605-01	Y	NO VISIBLE GOLD																	EST. 10% PYRITE
606-01	Y	50 X	50	10 C	2											2			EST. 1% PYRITE
		50 X	100	15 C	1											1			
																3	22.6	45	
-02	Y	50 X	50	10 C	2											2			EST. 10% PYRITE
		50 X	75	13 C	2											2			
		75 X	100	18 C	1											1			
																5	20.4	105	
606-03	Y	25 X	100	13 C	1											1			EST. 15% PYRITE
		50 X	75	13 C	2											2			

599-2

- 3

- 4

600A-1

601-1

603-1

605-1

606-1

- 2

- 3

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD1FEB.WR1

TOTAL # OF PANNINGS 40

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR				DELICATE				TOTAL MAG GMS	NON ASSAY PPB	CALC V.G. REMARKS
				T	P	T	P	T	P	T	P							

LVDT-87

														3	16.3	69		
-04	Y	75 X 100	18 C		1									1			EST. 15% PYRITE	
		150 X 200	34 C		1									1			606-4	
														2	18.0	486		
-05	Y	25 X 50	8 C		1									1			EST. 10% PYRITE	
		50 X 100	15 C		1									1			- 5	
		75 X 75	15 C		1									1				
														3	24.2	56		
-06	Y	25 X 25	5 C		2									2			EST. 10% PYRITE	
		25 X 50	8 C		3									3			- 6	
		75 X 150	22 C	1										1				
														6	21.6	112		
-07	Y	NO VISIBLE GOLD															EST. 2% PYRITE	- 7
613-01	Y	NO VISIBLE GOLD															EST. 5% PYRITE	613-1
616-01	Y	25 X 25	5 C		1									1			EST. 2% PYRITE	
		50 X 50	10 C		1									1			616-1	
														2	4.2	52		
-02	Y	NO VISIBLE GOLD															EST. 15% PYRITE	- 2
617-01	Y	25 X 50	8 C		1									1			EST. 1% PYRITE	
		100 X 150	25 C	1										1			617-1	
														2	10.6	281		



OVERBURDEN DRILLING MANAGEMENT LIMITED

107-15 CAPELLA COURT, NEPEAN, ONTARIO K2E 7X1 (613) 226-1771

February 09, 1987

Esso Minerals Canada
153 A rue Perreault
Val d'Or, Quebec
JOP 2H1

Attention: Mr. M. Durocher

Dear Sir:

Re: Sample Series - LDVT 617-02 to 597-13. 37 samples.

Please find enclosed our laboratory sample logs from the sample series as listed above. The non-magnetic heavy mineral concentrates were forward on February 09, 1987 to X-Ray Assay.

Should you require any additional information please do not hesitate to contact the undersigned.

Yours truly,


Kevan Elcomb
Laboratory Manager

KE:lk
Enc.

FEB. WR1

OVERBURDEN DRILLING MANAGEMENT LIMITED

OF SAMPLES IN THIS REPORT = 37

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION										CLASS		
										CLAST					MATRIX							
				M. I. CONC																		
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	MAG	NO. V.G.	CALC PPB	SIZE	Z			S/U	SD	ST	CY	COLOR			
											V/S	GR	LS	OT					SD	CY		
LDVT-87																						
617-02	4.5	0.0	4.5	135.2	110.9	24.3	17.9	6.4	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	3.9	0.0	3.9	114.6	92.5	22.1	16.4	5.7	1	12	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
618-01	1.5	0.0	1.5	54.4	49.6	4.8	4.0	0.8	1	6	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL&BDK
624-01	6.8	0.0	6.8	110.5	80.3	30.2	22.8	7.4	9	85	P/BK	90	10	NA	NA	U	Y	Y	Y	B	B	TILL&BDK
625-01	4.7	0.0	4.7	84.8	66.3	18.5	13.9	4.6	3	343	P/BK	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
626-01	1.3	0.0	1.3	93.6	88.5	5.1	4.4	0.7	2	346	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
-02	1.9	0.0	1.9	87.8	77.6	10.2	8.4	1.8	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	1.7	0.0	1.7	142.1	134.5	7.6	5.8	1.8	0	NA	TR	NA	NA	NA	NA	S	F	Y	Y	GB	GB	SAND
-04	1.1	0.0	1.1	96.2	90.8	5.4	4.1	1.3	1	47	TR	NA	NA	NA	NA	S	F	Y	Y	GB	GB	SAND
-05	3.2	0.0	3.2	83.4	72.3	11.1	8.3	2.8	4	81	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-06	4.4	0.0	4.4	132.3	109.8	22.5	17.4	5.1	2	38	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-07	4.3	0.0	4.3	137.9	115.6	22.3	18.0	4.3	3	7	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
-01	3.9	0.0	3.9	121.1	100.3	20.8	15.9	4.9	0	NA	TR	NA	NA	NA	NA	S	M	Y	Y	B	GY	SAND&BDK
631-01	7.5	0.0	7.5	107.4	78.4	29.0	21.3	7.7	1	18	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
643-01	5.0	0.1	4.9	80.9	53.5	27.4	20.5	6.9	5	185	P	95	5	NA	NA	U	Y	Y	Y	GB	GB	TILL
645-01	2.4	0.2	2.2	96.8	93.1	3.7	2.5	1.2	0	NA	BK	99	1	NA	NA	S	M/C	Y	Y	GYB	BN	BDK
592-01	3.8	0.0	3.8	117.2	98.1	19.1	14.5	4.6	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	3.3	0.0	3.3	127.3	114.6	12.7	7.0	5.7	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	3.3	0.0	3.3	105.8	86.8	19.0	15.7	3.3	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-04	0.9	0.0	0.9	74.7	71.5	3.2	2.6	0.6	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
592A-05	8.0	0.3	7.7	192.3	155.1	37.2	28.0	9.2	1	36	P	30	70	NA	NA	U	Y	Y	Y	GB	GB	TILL
-06	8.8	0.3	8.5	171.9	136.7	35.2	33.7	1.5	1	63	P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
-07	8.8	0.2	8.6	175.2	127.2	48.0	35.3	12.7	1	5	P	50	50	NA	NA	U	Y	Y	Y	GB	GB	TILL
-08	8.4	0.3	8.1	208.8	163.1	45.7	34.3	11.4	4	57	P	70	30	NA	NA	U	Y	Y	Y	GB	GB	TILL
597-01	5.8	0.0	5.8	104.6	76.4	28.2	23.3	4.9	1	1	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
-02	4.8	0.0	4.8	131.4	103.2	28.2	20.7	7.5	2	32	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
-03	5.7	0.0	5.7	118.5	91.2	27.3	19.4	7.9	2	20	TR	NA	NA	NA	NA	S	M	Y	N	B	B	SAND
-04	7.4	0.2	7.2	181.8	147.5	34.3	24.0	10.3	4	183	P	60	40	NA	NA	U	Y	Y	Y	GB	GB	TILL
-05	4.7	0.2	4.5	96.6	76.6	20.0	13.9	6.1	2	29	P	65	35	NA	NA	U	Y	Y	Y	GB	GB	TILL
-06	7.8	0.3	7.5	119.1	83.9	35.2	25.9	9.3	3	54	C	80	20	NA	NA	U	Y	Y	Y	GB	GY	TILL
-07	8.4	0.6	7.8	109.2	69.9	39.3	26.0	13.3	6	19	C	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
-08	8.7	0.6	8.1	116.1	75.7	40.4	30.3	10.1	8	125	C	80	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
-09	4.2	0.1	4.1	68.5	49.4	19.1	14.3	4.8	5	17	P	95	5	NA	NA	U	Y	Y	Y	GG	GG	TILL
-10	3.4	0.0	3.4	73.6	55.2	18.4	14.1	4.3	6	164	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	GY	TILL
-11	5.1	0.0	5.1	72.9	48.1	24.8	16.3	8.5	2	3	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	GY	TILL
-12	5.3	0.0	5.3	123.8	99.9	23.9	17.5	6.4	5	53	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	GY	TILL
597-13	6.1	0.0	6.1	70.2	43.6	26.6	17.5	9.1	1	5	TR	NA	NA	NA	NA	U	Y	Y	Y	GG	GY	TILL

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD2FEB.WR1

TOTAL # OF PANNINGS 37

ESLD2FEB.WR1				NUMBER OF GRAINS											
TOTAL # OF PANNINGS				37											
SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL	NON MAG	CALC V.G. ASSAY	REMARKS	
					T	P	T	P	T	P					GMS
LDVT-87															
617-02	Y		NO VISIBLE GOLD												EST. 1%
-03	Y	50 X	50	10 C	1						1			EST. 5%	
											1	16.4	12		
618-01	Y	25 X	25	5 C	1						1			EST. 1%	
											1	4.0	6		
624-01	Y	25 X	25	5 C	2		2				4			EST. 10%	
											1				
											2				
											1				
											1				
											9	22.8	85		
625-01	Y	50 X	75	13 C	1						1			EST. 5%	
											1				
											1				
											3	13.9	343		
626-01	Y	25 X	25	5 C	1						1			EST. 1%	
											1				
											2	4.4	346		
-02	Y	NO VISIBLE GOLD												EST. 0.5%	
-03	Y	NO VISIBLE GOLD												EST. 1%	
-04	Y	50 X	50	10 C	1						1			EST. 1%	
											1	4.1	47		
-05	Y	25 X	25	5 C	1						1			EST. 5%	
											1				
											1				
											1				
											4	8.3	81		
-06	Y	25 X	25	5 C	1						1			EST. 10%	
											1				

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD2FEB.WR1

TOTAL # OF PANNINGS 37

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR				DELICATE				TOTAL MAG GMS	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P	T	P								

LDVT-87

2 17.4 38

-07	Y	25 X 25	5 C	2										2		EST. 10% PYRITE	626-7
		25 X 50	8 C	1										1			

3 18.0 7

630-01 Y NO VISIBLE GOLD EST. 1% PYRITE 630-1

631-01 Y 50 X 75 13 C 1 EST. 0.5% PYRITE 631-1

1 21.3 18

643-01	Y	50 X 50	10 C	2										2		EST. 1% PYRITE	643-1
		75 X 75	15 C	1									1	2			
		100 X 125	22 C	1									1	1			

5 20.5 185

645-01 Y NO VISIBLE GOLD NO SULPHIDES

592-01 Y NO VISIBLE GOLD EST. 0.5% PYRITE 645-1

-02 Y NO VISIBLE GOLD EST. 5% PYRITE 592-1

-03 Y NO VISIBLE GOLD EST. 3% PYRITE -2

-04 Y NO VISIBLE GOLD EST. 1% PYRITE -3

592A-05 Y 75 X 100 18 C 1 EST. 15% PYRITE -4

1 28.0 36

-06 Y 100 X 125 22 C 1 EST. 15% PYRITE

1 33.7 63

-07 Y 50 X 50 10 C 1 EST. 15% PYRITE 6

1 35.3 5

-08	Y	25 X 25	5 C	1										1		EST. 15% PYRITE	7
		75 X 75	15 C	2										2			
		75 X 75	15 C	1										1			

4 34.3 57

8

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD2FEB.WR1

TOTAL # OF PANNINGS 37

ESLD2FEB.WR1				NUMBER OF GRAINS											
TOTAL # OF PANNINGS				37											
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS		
				T	P	T	P	T	P						
LDVT-87															
597-01	Y	25 X 25	5 C							1	1		NO SULPHIDES		
											1	23.3	1		
-02	Y	25 X 25	5 C		1						1		NO SULPHIDES		
		50 X 100	15 C		1						1				
											2	20.7	32		
-03	Y	50 X 50	10 C		1					1	2		NO SULPHIDES		
											2	19.4	20		
-04	Y	50 X 75	13 C		1						1		EST. 5% PYRITE		
		75 X 100	18 C		1						1				
		75 X 125	20 C		1						1				
		100 X 100	20 C	1							1				
											4	24.0	183		
-05	Y	25 X 25	5 C		1						1		EST. 10% PYRITE		
		50 X 75	13 C		1						1				
											2	13.9	29		
-06	Y	50 X 75	13 C		2						2		EST. 10% PYRITE		
		50 X 100	15 C		1						1				
											3	25.9	54		
-07	Y	25 X 25	5 C		4						4		EST. 15% PYRITE		
		50 X 50	10 C		1					1	2				
											6	26.0	19		
-08	Y	25 X 25	5 C		1						1		EST. 15% PYRITE		
		25 X 50	8 C		2						2				
		50 X 50	10 C		1						1				
		75 X 75	15 C		3						3				
		75 X 125	20 C		1						1				
											8	30.3	125		
-09	Y	25 X 25	5 C		3						3		EST. 7% PYRITE		
		25 X 50	8 C		2						2				
											5	14.3	17		

597-1

2

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OVERBURDEN DRILLING MANAGEMENT LIMITED

107-15 CAPELLA COURT, NEPEAN, ONTARIO K2E 7X1 (613) 226-1771

February 11, 1987

Esso Minerals Canada
153 A rue Perreault
Val d'Or, Quebec
JOP 2H1

Attention: Mr. M. Durocher

Dear Sir:

Re: Sample Series - LDVT 597-14 to 679-06, 40 samples.

Please find enclosed our laboratory sample logs from the sample series as listed above. The non-magnetic heavy mineral concentrates were forward on February 11, 1987 to X-Ray Assay.

Should you require any additional information please do not hesitate to contact the undersigned.

Yours truly,

Kevan Elcomb
Laboratory Manager

KE:lk
Enc.

FEB. WRI

OVERBURDEN DRILLING MANAGEMENT LIMITED

OF SAMPLES IN THIS REPORT = 41

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG. WET)			WEIGHT (GRAMS DRY)					AU	DESCRIPTION										CLASS
				M. I. CONC					CLAST					MATRIX						

VALUABLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

ABRADED IRREGULAR DELICATE TOTAL NON CALC V.G.

SAMPLE # PANNED

MAG

Y/N	DIAMETER	THICKNESS	T	P	T	P	T	P	GMS	PPB	REMARKS
-----	----------	-----------	---	---	---	---	---	---	-----	-----	---------

597-14 Y 25 X 25 5 C 1 1 EST. 10% PYRITE
0.25% ARSENOPYRITE 597-14

1	15.0	2
---	------	---

626-08 Y 25 X 25 5 C 1 1 2 EST. 7% PYRITE 626-8

2 13.1 4

-09	Y	50 X 150	20 C	1	1	EST. 15% PYRITE
		100 X 100	20 C	1	1	0.25% MARCASITE

2	15.9	189
---	------	-----

661-01	Y	25 X	50	8 C	1	1	EST. 10% PYRITE
—		50 X	50	10 C	1	1	661-1

2	29.3	9
---	------	---

-02	Y	25 X	25	5 C	1	1	EST. 10% PYRITE	
		50 X	75	13 C	1	1		
		75 X	100	18 C	1	1		-2

3	19.5	72
---	------	----

662-01	Y	75 X	75	15 C	1	1	EST. 1% PYRITE	662-1
--------	---	------	----	------	---	---	----------------	-------

1	13.5	47
---	------	----

663-01	Y	25 X 25	5 C	1	1	EST. 0.25% PYRITE	663-1
		50 X 200	25 C	1	1		

50 X 200	25 C	1
75 X 100	18 C	1
100 X 125	22 C	1

4	25.7	235
---	------	-----

665-01	Y	25 X 25	5 C	1		1	EST. 0.5% PYRITE
		25 X 50	8 C	1	1	2	
		35 X 75	12 C				

665-1

25 X	75	10 C	1
50 X	50	10 C	2
75 X	100	18 C	1
75 X	150	22 C	1

8	23.2	168
---	------	-----

666-01 Y NO VISIBLE GOLD EST. 5% PYRITE 666-1

667-01 Y 25 X 25 5 C 2 2 EST. 1% PYRITE 667-1

VALUABLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	41
---------------------	----

NUMBER OF GRAINS

SAMPLE #	PANNED	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL	NON MAG	CALC V.G. ASSAY	REMARKS
				T	P	T	P	T	P				
	Y/N										GMS	PPB	

LDVT-87

50 X	50	10 C	1	1
50 X	100	15 C	1	1
				4 6.2 142

668-01 Y NO VISIBLE GOLD EST. 0.5% PYRITE

670-01	Y	25	X	25	5	C	1	1	EST. 0.5% PYRITE
								1	5.3
								5	

671-01 Y NO VISIBLE GOLD EST. 0.5% PYRITE

673-01	Y	25 X 25	5 C	1	1	NO SULPHIDES
		25 X 50	8 C	1	1	
		50 X 50	10 C	1	1	
		75 X 100	18 C	1	1	
					4	22.2
						59

-02 Y NO VISIBLE GOLD NO SULPHIDES

674-01	Y	25 X	25	5 C	1	1	EST. 10% PYRITE
		25 X	50	8 C	1	1	
		50 X	50	10 C	2	2	
						4	21.9
							22

-02	Y	25 X 25	5 C	2	2	EST. 10% PYRITE
		25 X 50	8 C	1	1	
		50 X 50	10 C	1	1	
		75 X 100	18 C	1	1	
					<u>5</u>	<u>25.3</u>
						53

-03	Y	25 X	25	5 C	2	2	EST. 15% PYRITE
		50 X	50	10 C	1	1	50 GRAINS MARCASITE
						<u>3</u>	<u>18.9</u>
							13

-01	Y	25 X	25	5 C		1	1	2		EST. 3% PYRITE
		50 X	50	10 C	1		1	2		
								<u>4</u>	<u>15.0</u>	<u>29</u>

-02	Y	25 X 25	5 C	1	1	EST. 20% PYRITE
		25 X 100	13 C	1	1	

FORM CLASSIFICATION

POSSIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD3FEB.WR1

TOTAL # OF PANNINGS

41

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			
LDVT-87		75 X 75 175 X 175	15 C 34 C							1 1		
										4	23.3	377
-03	Y	50 X 100	15 C							1		EST. 15% PYRITE
										1	23.9	27
-04	Y	50 X 50 125 X 125	10 C 25 C							1 1		EST. 10% PYRITE 1% MARCASITE
										2	25.9	119
676-01	Y	50 X 50	10 C							1		EST. 5% PYRITE
										1	19.2	10
-02	Y	100 X 100	20 C							1		EST. 5% PYRITE
										1	16.2	93
-03	Y	25 X 25	5 C							1		EST. 10% PYRITE
										1	13.2	2
-04	Y	25 X 25	5 C							1		EST. 10% PYRITE
										1	20.6	1
-05	Y	50 X 50 75 X 100	10 C 18 C							1 1		EST. 1% PYRITE
										2	19.7	61
-06	Y	25 X 25	5 C							2		EST. 1% PYRITE
										2	9.9	5
678-01	Y	50 X 75 50 X 150	13 C 20 C							1 1		EST. 7% PYRITE
										2	10.8	173
-02	Y	100 X 100 100 X 125	20 C 22 C							1 1		EST. 1% PYRITE

V. J. B. L. G. O. L. D. F. R. O. M. S. H. A. K. I. N. G. T. A. B. L. E. A. N. D. P. A. N. N. I. N. G.

NUMBER OF GRAINS

41

AND

2 12.5 290

-03	Y	125 X 150	27 C	1	1	EST. 5% PYRITE
		125 X 225	34 C	1	1	

2	31.5	367
---	------	-----

-04	Y	50 X 100	15 C	1	1	EST. 10% PYRITE
-----	---	----------	------	---	---	-----------------

1	25.7	25
---	------	----

-05	Y	25 X	75	10 C	1		1	EST. 5% PYRITE
		50 X	75	13 C		1	1	
		75 X	75	15 C	1		1	
		75 X	150	22 C	1		1	

4	26.1	128
---	------	-----

-06	Y	25 X 25	5 C	1	1	EST. 1% PYRITE
		50 X 50	10 C	1	1	
		50 X 100	15 C	1	1	
		100 X 175	27 C	1	1	

4	23.7	198
---	------	-----

679-01	Y	25 X 50	8 C	2		2	EST. 1% PYRITE
		25 X 75	10 C	1		1	
		50 X 125	18 C	1		1	
		75 X 125	20 C		1	1	

5	31.9	90
---	------	----

-02	Y	50 X	75	13 C	1	1	EST. 1% PYRITE
		75 X	100	18 C	1	1	

2	24.9	56
---	------	----

-03	Y	25 X	25	5 C	2	2	EST. 1% PYRITE
		25 X	50	8 C	2	2	
		50 X	50	10 C	1	1	
		50 X	100	15 C	1	1	
		75 X	75	15 C	2	2	

8 36.0 65

-04 Y NO VISIBLE GOLD EST. 20% PYRITE

1. **THE STATE OF TEXAS, County of _____, do hereby certify that _____**

EST. 1% PYRITE

LDVT



OVERBURDEN DRILLING MANAGEMENT LIMITED

107-15 CAPELLA COURT, NEPEAN, ONTARIO K2E 7X1 (613) 226-1771

February 16, 1987

Esso Minerals Canada
153 A rue Perreault
Val d'Or, Quebec
JOP 2H1

Attention: Mr. M. Durocher

Dear Sir:

Re: Sample Series - LDVT 679-07 to 736-02, 40 samples.

Please find enclosed our laboratory sample logs from the sample series as listed above. The non-magnetic heavy mineral concentrates were forward on February 16, 1987 to X-Ray Assay.

Should you require any additional information please do not hesitate to contact the undersigned.

Yours truly,

Kevan Elcomb
Laboratory Manager

KE:lk
Enc.

14FEB.WR1

OVERBURDEN DRILLING MANAGEMENT LIMITED

OF SAMPLES IN THIS REPORT = 40

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)					AU	DESCRIPTION										CLASS		
	TABLE SPLIT	+10 CHIPS	TABLE FEED	TABLE CONC	M. I. CONC			NO. V.6.		CALC PPB	CLAST				MATRIX							
					M.I. LIGHTS	CONC. TOTAL	NON MAG				SIZE	%	S/U	SD	ST	CY	COLOR					
																						V/S
LDVT-87																						
679-07	5.5	0.4	5.1	57.6	33.9	23.7	18.8	4.9	7	427	P	75	25	NA	A	U	Y	Y	Y	GB	B	TILL
-08	9.4	0.4	9.0	109.1	57.6	51.5	41.8	9.7	4	155	P	75	25	NA	NA	U	Y	Y	Y	GB	B	TILL
-09	4.4	0.2	4.2	119.6	96.1	23.5	20.1	3.4	1	10	P,BD	75	25	NA	NA	U	Y	Y	Y	GYB	B	TILL
680-01	6.2	0.1	6.1	82.6	58.0	24.6	19.9	4.7	3	33	P	75	25	NA	NA	U	Y	Y	Y	GYB	B	TILL
-02	8.5	0.2	8.3	133.0	92.5	40.5	32.4	8.1	4	437	P	75	25	NA	NA	U	Y	Y	Y	GYB	B	TILL
-03	8.9	0.6	8.3	134.9	99.9	35.0	23.7	11.3	5	701	P,BL	85	15	NA	NA	U	Y	Y	Y	GB	B	TILL
-04	8.8	0.2	8.6	111.6	76.2	35.4	24.5	10.9	8	79	P,BL	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-05	6.0	0.2	5.8	111.6	77.3	34.3	25.7	8.6	2	3183	P,BL	80	20	NA	NA	U	Y	Y	Y	GY	GY	TILL
-06	4.5	0.0	4.5	119.2	89.6	29.6	24.2	5.4	2	2	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
-07	3.5	0.0	3.5	126.8	103.5	23.3	18.5	4.8	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
-08	6.3	0.0	6.3	148.5	111.7	36.8	26.6	10.2	2	118	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
681-01	5.7	0.0	5.7	139.0	104.7	34.3	27.1	7.2	2	364	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-02	5.6	0.2	5.4	129.2	101.5	27.7	22.1	5.6	1	223	C	50	50	NA	NA	U	Y	Y	Y	GB	GB	TILL
-03	5.8	0.0	5.8	120.2	90.0	30.2	23.4	6.8	1	91	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-04	6.3	0.0	6.3	120.9	87.4	33.5	27.7	5.8	3	91	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
-05	6.4	0.0	6.4	134.9	102.1	32.8	26.1	6.7	1	25	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-06	6.7	0.0	6.7	136.1	103.5	32.6	24.9	7.7	6	261	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	GB	TILL
-07	6.2	0.0	6.2	120.0	98.7	21.3	16.8	4.5	1	5	C	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
-08	5.7	0.0	5.7	129.8	95.2	34.6	26.8	7.8	2	823	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
-09	3.4	0.0	3.4	126.9	105.1	21.8	18.1	3.7	2	294	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
-10	2.8	0.1	2.7	154.7	137.5	17.2	14.9	2.3	0	NA	P	90	10	A	NA	U	Y	Y	Y	GB	B	TILL
-11	2.2	0.1	2.1	50.5	39.9	10.6	9.5	1.1	2	48	P	90	10	A	NA	U	Y	Y	Y	GB	B	TILL
-12	2.8	0.5	2.3	138.3	123.1	15.2	13.4	1.8	2	20	P	75	25	A	NA	U	Y	Y	Y	GB	B	TILL
-13	1.0	0.0	1.0	37.8	31.8	6.0	5.5	0.5	1	4	TR	NA	NA	NA	NA	U	Y	Y	Y	GB	B	TILL
721-01	7.6	0.3	7.3	76.7	44.8	31.9	24.9	7.0	2	9	P	80	20	NA	NA	U	Y	Y	Y	GNB	GNB	TILL
722-01	4.3	0.2	4.1	68.5	48.2	20.3	16.0	4.3	0	NA	P	80	20	NA	NA	U	Y	Y	Y	GB	B	TILL
-02	9.8	0.4	9.4	129.5	84.8	44.7	30.5	14.2	2	98	P/BL	90	10	NA	NA	U	Y	Y	Y	GB	B	TILL
723-01	6.5	0.3	6.2	124.8	102.9	21.9	16.4	5.5	3	123	P/BL	90	10	NA	NA	U	Y	Y	Y	GYB	GYB	TILL
724-01	2.0	0.0	2.0	112.9	109.6	3.3	2.5	0.8	0	NA	TR	NA	NA	NA	NA	S	C	Y	N	GNB	NA	BDK
725-01	4.7	0.0	4.7	82.3	57.2	25.1	20.2	4.9	2	221	TR	NA	NA	NA	NA	U	Y	Y	N	GNB	NA	TILL
-02	4.8	0.0	4.8	98.1	62.3	35.8	29.6	6.2	1	1	TR	NA	NA	NA	NA	U	Y	Y	Y	GY	GY	TILL
-03	7.7	0.5	7.2	129.4	90.3	39.1	32.1	7.0	7	33	P	85	15	NA	NA	U	Y	Y	Y	GB	GY	TILL
-04	4.0	0.3	3.7	83.1	60.3	22.8	19.0	3.8	2	30	BK	90	10	NA	NA	U	Y	Y	Y	GB	GB	TILL
733-01	3.2	0.0	3.2	102.3	82.4	19.9	16.6	3.3	4	93	TR	NA	NA	NA	NA	U	Y	Y	Y	B	B	TILL
-02	9.7	0.6	9.1	158.1	118.2	39.9	27.3	12.6	1	106	BK	80	20	NA	NA	U	Y	Y	Y	GB	GB	TILL
735-01	4.8	0.0	4.8	105.4	84.2	21.2	17.4	3.8	2	288	TR	NA	NA	NA	NA	U	Y	Y	Y	BNB	BNB	TILL
-02	6.4	0.4	6.0	135.8	101.3	34.5	27.1	7.4	5	38	P	85	15	NA	NA	U	Y	Y	Y	B	B	TILL
-03	9.5	1.0	8.5	128.4	89.8	38.6	29.9	8.7	0	NA	BK	90	10	NA	NA	U	Y	Y	Y	BNB	BNB	TILL
736-01	2.3	0.0	2.3	89.4	74.7	14.7	12.0	2.7	5	161	TR	NA	NA	NA	NA	U	Y	Y	Y	BNB	BNB	TILL
736-02	0.3	0.0	0.3	38.4	32.2	6.2	2.4	3.8	1	421	TR	NA	NA	NA	NA	S	F	Y	N	GN	NA	BDK

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD4FEB.WR1

TOTAL # OF PANNINGS

40

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P				
LDVT-87													
679-07	Y	25 X 50	8 C		1					1			EST. 10% PYRITE
		50 X 50	10 C		3					3			679-7
		75 X 75	15 C		1					1			
		125 X 125	25 C		1					1			
		125 X 150	27 C	1						1			
										7	18.8	427	
-08	Y	25 X 25	5 C		1		1			2			EST. 40% PYRITE
		50 X 50	10 C		1					1			
		150 X 175	31 C	1						1			-8
										4	41.8	155	
-09	Y	25 X 75	10 C		1					1			EST. 25% PYRITE
										1	20.1	10	-9
680-01	Y	25 X 50	8 C		1					1			EST. 10% PYRITE
		25 X 75	10 C		1					1			
		25 X 100	13 C		1					1			680-1
										3	19.9	33	
-02	Y	25 X 25	5 C		1					1			EST. 10% PYRITE
		50 X 50	10 C		1					1			
		50 X 75	13 C		1					1			680-2
		175 X 250	40 C	1						1			
										4	32.4	437	
-03	Y	25 X 25	5 C		1					1			EST. 10% PYRITE
		50 X 50	10 C		2		1			3			
		150 X 300	42 C	1						1			680-3
										5	23.7	701	
-04	Y	25 X 25	5 C		3					3			EST. 15% PYRITE
		50 X 50	10 C		2		1			3			
		75 X 75	15 C		2					2			680-4
										8	24.5	79	
-05	Y	50 X 50	10 C		1					1			EST. 7% PYRITE
		200 X 600	68 C			1				1			680-5
										2	25.7	3183	

CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD4FEB.WR1

TOTAL # OF PANNINGS

40

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL MAG GMS	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P				
LDVT-87													
-06	Y	25 X 25	5 C		2					2			EST. 15% PYRITE 680-6
										2	24.2	2	
-07	Y	NO VISIBLE GOLD											EST. 15% PYRITE -7
-08	Y	75 X 100	18 C		1					1			EST. 15% PYRITE
		100 X 125	22 C		1					1			-8
										2	26.6	118	
681-01	Y	100 X 200	29 C	1						1			EST. 15% PYRITE
		150 X 150	29 C		1					1			681-1
										2	27.1	364	
-02	Y	125 X 175	29 C		1					1			EST. 5% PYRITE -2
										1	22.1	223	
-03	Y	100 X 125	22 C		1					1			EST. 5% PYRITE -3
										1	23.4	91	
-04	Y	50 X 75	13 C		1					1			EST. 5% PYRITE
		50 X 100	15 C		1					1			
		50 X 150	20 C		1					1			-4
										3	27.7	91	
-05	Y	75 X 75	15 C		1					1			EST. 2% PYRITE -5
										1	26.1	25	
-06	Y	25 X 50	8 C		2					2			EST. 10% PYRITE
		50 X 75	13 C		1					1			
		50 X 100	15 C		1					1			
		100 X 100	20 C		1					1			
		100 X 175	27 C		1					1			-6
										6	24.9	261	
-07	Y	25 X 50	8 C		1					1			EST. 10% PYRITE -7
										1	16.8	5	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD4FEB.WR1

TOTAL # OF PANNINGS

40

NUMBER OF GRAINS

SAMPLE # PANNED

Y/N

DIAMETER

THICKNESS

ABRADED

IRREGULAR

DELICATE

TOTAL

NON

CALC V.G.

MAG

ASSAY

GMS

PPB

REMARKS

LDVT-87

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS				TOTAL	NON	CALC V.G.	REMARKS	
					ABRADED	IRREGULAR	DELICATE						
-08	Y	50 X 75	13 C	1					1		EST. 10% PYRITE		
		50 X 450	46 C	1					1				
										2	26.8	823	681-8

681-8

2 26.8 823

-09	Y	100 X 100	20 C	1					1		EST. 10% PYRITE		
		125 X 150	27 C	1					1				
										2	18.1	294	-9

-9

2 18.1 294

-10	Y	NO VISIBLE GOLD										EST. 3% PYRITE -10
-----	---	-----------------	--	--	--	--	--	--	--	--	--	--------------------

EST. 3% PYRITE -10

-11	Y	25 X 50	8 C	1					1		EST. 10% PYRITE		
		50 X 75	13 C	1					1				
										2	9.5	48	-11

-11

2 9.5 48

-12	Y	25 X 50	8 C	1					1		EST. 3% PYRITE		
		50 X 50	10 C	1					1				
										2	13.4	20	-12

-12

2 13.4 20

-13	Y	25 X 25	5 C	1					1		EST. 2% PYRITE		
										1	5.5	4	-13

-13

1 5.5 4

721-01	Y	25 X 25	5 C	1					1		EST. 1% PYRITE		
		50 X 50	10 C	1					1				
										2	24.9	9	721-1

721-1

2 24.9 9

722-01	Y	NO VISIBLE GOLD										NO SULPHIDES 722-1
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NO SULPHIDES 722-1

-02	Y	75 X 125	20 C	1					1		EST. 1% PYRITE		
		100 X 100	20 C			1			1				
										2	30.5	98	-2

-2

2 30.5 98

723-01	Y	25 X 100	13 C					1	1		EST. 1% PYRITE		
		75 X 75	15 C	1					1				
		75 X 100	18 C	1					1				
										3	16.4	123	723-1 33% delicate

723-1 33% delicate

3 16.4 123

724-01	Y	NO VISIBLE GOLD										NO SULPHIDES 724-1
--------	---	-----------------	--	--	--	--	--	--	--	--	--	--------------------

NO SULPHIDES 724-1

725-01	Y	75 X 75	15 C	1					1		NO SULPHIDES 725-1
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NO SULPHIDES 725-1

D CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD4FEB.WR1

TOTAL # OF PANNINGS

40

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL MAG GMS	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P				
LDVT-87		100 X 175	27 C		1					1			
										2	20.2	221	
-02	Y	25 X 25	5 C		1					1			EST. 10% PDYRITE
										1	29.6	1	725-2
-03	Y	25 X 25	5 C		3					3			EST. 15% PYRITE
		25 X 50	8 C		2					2			
		50 X 50	10 C		1					1			
		50 X 100	15 C				1			1			
										7	32.1	33	-3
-04	Y	50 X 50	10 C		1					1			EST. 15% PYRITE
		50 X 75	13 C						1	1			-4 50% delicate
										2	19.0	30	
733-01	Y	25 X 50	8 C		2					2			NO SULPHIDES
		50 X 75	13 C		1					1			
		75 X 100	18 C		1					1			733-1
										4	16.6	93	
-02	Y	100 X 150	25 C		1					1			EST. 5% PYRITE
										1	27.3	106	-2
735-01	Y	25 X 50	8 C		1					1			EST. 1% PYRITE
		100 X 200	29 C		1					1			735-1
										2	17.4	288	
-02	Y	25 X 25	5 C		1					1			EST. 1% PYRITE
		25 X 50	8 C		2					2			
		50 X 50	10 C		1					1			
		75 X 75	15 C		1					1			
										5	27.1	38	-2
-03	Y	NO VISIBLE GOLD											EST. 1% PYRITE -3
736-01	Y	25 X 50	8 C		3					3			NO SULPHIDES
		25 X 75	10 C		1					1			
		75 X 125	20 C		1					1			736-1

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD4FEB.WR1

TOTAL # OF PANNINGS

40

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL	NON	MAG	GMS	CALC V.G.	ASSAY	PPB	REMARKS
					T	P	T	P	T	P								

LDVT-87

736-02 Y 75 X 100 18 C 1

5 12.0 161

1

EST. 5% PYRITE

736-2

1 2.4 421



LDVT

OVERBURDEN DRILLING MANAGEMENT LIMITED

107-15 CAPELLA COURT, NEPEAN, ONTARIO K2E 7X1 (613) 226-1771

February 19, 1987

Esso Minerals Canada
153 A rue Perreault
Val d'Or, Quebec
JOP 2H1

Attention: Mr. M. Durocher

Dear Sir:

Re: Sample Series - LDVT 737-01 to 764-01, 40 samples.

Please find enclosed our laboratory sample logs from the sample series as listed above. The non-magnetic heavy mineral concentrates were forward on February 19, 1987 to X-Ray Assay.

Should you require any additional information please do not hesitate to contact the undersigned.

Yours truly,

Kevan Elcomb
Laboratory Manager

KE:lk
Enc.

p=1d5feb.wrl

OVERBURDEN DRILLING MANAGEMENT LIMITED

OF SAMPLES IN THIS REPORT = 40

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION							CLASS			
				M. I. CONC						CLAST							MATRIX			
	TABLE	+10	TABLE	TABLE	M.I.	CONC.	NON	NO.	CALC	SIZE	%	S/U SD			ST	CY	COLOR			
	SPLIT	CHIPS	FEED	CONC	LIGHTS	TOTAL	MAG	MAG	V.G.	PPB		V/S	GR	LS	DT		SD	CY		
LDVT-87																				
737-01	4.6	0.0	4.6	146.5	127.7	18.8	15.5	3.3	1	137	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-02	5.9	0.0	5.9	128.2	99.5	28.7	21.5	7.2	4	157	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
755-01	4.8	0.0	4.8	59.3	34.1	25.2	20.0	5.2	2	138	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-02	5.2	0.0	5.2	56.9	29.6	27.3	20.4	6.9	7	188	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-03	6.4	0.0	6.4	118.4	81.6	36.8	30.3	6.5	1	12	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-04	5.0	0.0	5.0	91.5	55.1	36.4	29.1	7.3	4	70	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-05	6.7	0.0	6.7	191.8	139.2	52.6	39.2	13.4	2	28	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
714-01	5.8	0.0	5.8	120.5	93.2	27.3	19.5	7.8	0	NA	TR	NA	NA	NA	NA	U	Y	Y	B	TILL
715-01	6.6	0.0	6.6	130.7	102.9	27.8	21.6	6.2	3	27	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-02	6.8	0.1	6.7	129.4	91.1	38.3	28.6	9.7	5	536	P	40	60	NA	NA	U	Y	Y	Y	TILL
-03	7.0	0.4	6.6	142.3	110.0	32.3	25.4	6.9	2	11	C	60	40	NA	A	U	Y	Y	Y	TILL
-04	6.8	0.0	6.8	142.8	104.3	38.5	29.0	9.5	1	73	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-01	5.4	0.0	5.4	49.7	31.7	18.0	12.9	5.1	1	116	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-02	6.3	0.0	6.3	103.3	77.3	26.0	17.7	8.3	3	117	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-03	5.3	0.0	5.3	111.4	83.1	28.3	21.4	6.9	0	NA	P	90	10	NA	NA	U	Y	Y	Y	TILL
-04	5.8	0.0	5.8	109.3	75.7	33.6	23.8	9.8	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-05	6.1	0.0	6.1	104.6	69.6	35.0	25.0	10.0	2	238	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-06	5.7	0.0	5.7	100.7	81.7	19.0	10.8	8.2	1	94	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-07	1.0	0.0	1.0	72.7	67.8	4.9	4.1	0.8	1	156	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
754-01	2.6	1.0	1.6	111.5	93.7	17.8	15.3	2.5	1	24	P	80	20	NA	NA	U	Y	Y	B	TILL
-02	5.4	0.5	4.9	95.1	70.3	24.8	19.7	5.1	1	51	P	80	20	NA	NA	U	Y	Y	B	TILL
-03	4.3	0.0	4.3	89.4	66.3	23.1	17.9	5.2	5	2942	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-04	0.6	0.0	0.6	84.9	67.9	17.0	6.6	10.4	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
753-01	1.0	0.0	1.0	70.6	65.8	4.8	3.3	1.5	0	NA	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
768-01	2.7	0.0	2.7	133.2	125.2	8.0	5.8	2.2	1	4	TR	NA	NA	NA	NA	U	Y	Y	BBN	TILL
767-01	1.1	0.0	1.1	79.8	71.4	8.4	6.8	1.6	0	NA	TR	NA	NA	NA	NA	U	Y	Y	BBN	TILL
-02	2.9	0.0	2.9	93.4	72.4	21.0	16.7	4.3	1	61	TR	NA	NA	NA	NA	U	Y	Y	BBN	TILL
-03	4.8	0.0	4.8	106.5	79.1	27.4	20.8	6.6	2	40	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-04	6.0	0.0	6.0	104.9	77.9	27.0	20.3	6.7	2	19	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-05	9.0	0.1	8.9	124.3	81.5	42.8	29.0	13.8	1	13	P,BK	95	5	NA	NA	U	Y	Y	Y	TILL&BDK
767A-06	9.6	0.3	9.3	138.2	85.4	52.8	38.0	14.8	6	177	P,BL	95	5	NA	NA	U	Y	Y	Y	TILL&BLD
-07	9.1	0.5	8.6	114.6	66.5	48.1	37.9	10.2	2	27	P,BK	95	5	NA	NA	U	Y	Y	Y	TILL&BDK
766-01	3.9	0.2	3.7	100.9	79.9	21.0	17.3	3.7	2	6	P	95	5	NA	NA	U	Y	Y	GND	TILL
-02	9.2	0.7	8.5	129.7	85.9	43.8	32.3	11.5	4	815	P	95	5	NA	NA	U	Y	Y	Y	TILL
-03	7.7	0.4	7.3	99.7	69.5	30.2	23.8	6.4	1	42	P	90	10	NA	A	U	Y	Y	Y	TILL
765-01	7.9	0.7	7.2	105.2	72.5	32.7	27.5	5.2	2	305	P	95	5	NA	C	U	Y	Y	Y	TILL
-02	8.5	3.1	5.4	153.2	119.2	34.0	27.1	6.9	2	75	P	95	5	NA	NA	U	Y	Y	Y	TILL
-03	9.3	1.3	8.0	136.8	99.4	37.4	28.9	8.5	4	323	P	95	5	NA	A	U	Y	Y	Y	TILL
-04	7.8	0.8	7.0	91.8	58.3	33.5	27.3	6.2	2	10	P	95	5	NA	NA	U	Y	Y	Y	TILL
764-01	5.5	0.0	5.5	155.7	130.3	25.4	19.5	5.9	1	77	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL

FIND CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

esld5feb.wrl

TOTAL # OF PANNINGS 40

esld5feb.wrl

		NUMBER OF GRAINS										NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL					
				T	P	T	P	T	P						
TOTAL # OF FANNINGS 40															
LDVT-87															
737-01	Y	100 X 125	22 C		1					1				NO SULPHIDES 737-1	
										1	15.5		137		
-02	Y	50 X 50	10 C		2					2				EST. 15% PYRITE	
		50 X 150	20 C		1					1				0.25% MARCASITE	
		75 X 125	20 C		1					1				737-2	
										4	21.5		157		
755-01	Y	50 X 100	15 C		1					1				EST. 12% PYRITE	
		100 X 125	22 C		1					1				0.25% MARCASITE 755-1	
										2	20.0		138		
-02	Y	50 X 50	10 C		3					3				EST. 15% PYRITE	
		50 X 75	13 C		2					2					
		75 X 100	18 C		1					1					
		100 X 100	20 C	1						1				755-2	
										7	20.4		188		
-03	Y	50 X 75	13 C		1					1				EST. 25% PYRITE	
										1	30.3		12	300 GRAINS ARSENOPIRYTE 755-3	
-04	Y	25 X 25	5 C		1					1				EST. 30% PYRITE, ONE GRAIN NATIVE	
		25 X 100	13 C				1			1				COPPER	
		50 X 100	15 C		1					1				400 GRAINS ARSENOPIRYTE	
		75 X 100	18 C		1					1				755-4	
										4	29.1		70		
-05	Y	25 X 50	8 C		1					1				EST. 25% PYRITE	
		75 X 100	18 C		1					1				755-5	
										2	39.2		28		
714-01	Y	NO VISIBLE GOLD												NO SULPHIDES 714-1	
-01	Y	25 X 25	5 C		1					1				EST. 10% PYRITE	
		50 X 50	10 C		1					1				0.25% MARCASITE	
		50 X 75	13 C				1			1				715-1	
										3	21.6		27		
-02	Y	25 X 25	5 C		2					2				EST. 10% PYRITE	

GOLD CLASSIFICATION

V. GOLD FROM SHAKING TABLE AND PANNING

esld5feb.wrl

TOTAL # OF PANNINGS 40

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P			
LDVT-87		50 X 50	10 C		1					1		
		75 X 125	20 C		1					1		
		200 X 225	40 C	1						1		
										5	28.6	536
-03	Y	25 X 52	8 C				1			1		EST. 10% PYRITE
		50 X 50	10 C		1					1		400 GRAINS ARSENOPYRITE
										2	25.4	11
-04	Y	100 X 125	22 C				1			1		EST. 15% PYRITE
										1	29.0	73
-01	Y	100 X 100	20 C				1			1		NO SULPHIDES
										1	12.9	116
-02	Y	50 X 50	10 C				1			1		EST. 0.5% ARSENOPYRITE
		50 X 75	13 C		1					1		
		100 X 100	20 C	1						1		
										3	17.7	117
-03	Y	NO VISIBLE GOLD										EST. 1% PYRITE
-04	Y	NO VISIBLE GOLD										500 GRAINS ARSENOPYRITE
-05	Y	75 X 100	18 C		1					1		EST. 5% PYRITE
		150 X 150	29 C	1						1		1000 ARSENOPYRITE
										2	25.0	238
-06	Y	75 X 100	18 C		1					1		EST. 10% PYRITE
										1	10.8	94
-07	Y	75 X 75	15 C		1					1		EST. 1% PYRITE
										1	4.1	156
754-01	Y	50 X 75	13 C		1					1		EST. 0.5% PYRITE
										1	15.3	24
-02	Y	75 X 100	18 C		1					1		EST. 5% PYRITE

715-2

715-3

715-4

716-1

716-2

716-3

716-4

716-5

716-6

716-7

754-1

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUMBER OF GRAINS

<u>ABRADED</u>		<u>IRREGULAR</u>		<u>DELICATE</u>		<u>TOTAL NON</u>	CALC V.G.	
						MAG	ASSAY	
T	P	T	P	T	P	GMS	PPB	REMARKS

LDVT-87

754-2

1	19.7	51
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-03	Y	50 X 75	13 C	1	1	EST. 10% PYRITE
		75 X 75	15 C	1	1	
		75 X 100	18 C	1	1	
		150 X 150	29 C	1	1	
		200 X 450	58 C	1	1	751

754-3

5	17.9	2942
---	------	------

-04 Y NO VISIBLE GOLD EST. 1% PYRITE

754-4

753-01 Y NO VISIBLE GOLD EST. 0.5% PYRITE

753-1

-01	Y	25	X	25	5	C	1	1	EST. 0.5% PYRITE
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768-1

1 5.8 4

767-01 Y NO VISIBLE GOLD EST. 0.5% PYRITE

767-1

-02	Y	75 X 100	18 C	1	1	TRACE PYRITE
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767-2

1	16.7	61
---	------	----

-03	Y	50 X	50	10 C	1	1	TRACE PYRITE
		50 X	100	15 C	1	1	31.7

767-3

2	20.8	40
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-04	Y	50	X	50	10	C	1	1	2	EST. 5% PYRITE
-----	---	----	---	----	----	---	---	---	---	----------------

767-4

2	20.3	19
---	------	----

-05	Y	50 X	75	13 C	1	1	EST. 15% PYRITE
-----	---	------	----	------	---	---	-----------------

767-5

1	29.0	13
---	------	----

767A-06	Y	25 X 50	8 C	1	1	EST. 15% PYRITE
		50 X 75	13 C	1	1	
		50 X 125	18 C	1	1	
		75 X 100	18 C	1	1	
		100 X 125	22 C	2	2	

767A-6

6	38.0	177
---	------	-----

-07	Y	50	X	75	13	C	1	1	EST. 15% PYRITE
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GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

esld5feb.wrl

TOTAL # OF PANNINGS

40

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P				
LDVT-B7		50 X 100	15 C		1					1			
										2	37.9	27	767A-7
766-01	Y	25 X 25	5 C		1					1			EST. 5% PYRITE
		25 X 50	8 C		1					1			766-1
										2	17.3	6	
-02	Y	25 X 100	13 C		1					1			EST. 15% PYRITE
		50 X 75	13 C		1					1			
		50 X 100	15 C		1					1			
		225 X 300	48 C				1			1			766-2
										4	32.3	815	
-03	Y	75 X 100	18 C		1					1			EST. 5% PYRITE
										1	23.8	42	766-3
765-01	Y	50 X 100	15 C		1					1			EST. 1% PYRITE
		150 X 200	34 C	1						1			765-1
										2	27.5	305	
-02	Y	75 X 100	18 C		1		1			2			EST. 5% PYRITE
										2	27.1	75	765-2
-03	Y	50 X 50	10 C		1					1			EST. 10% PYRITE
		50 X 75	13 C		1					1			
		125 X 150	27 C		1					1			
		125 X 175	29 C		1					1			765-3
										4	28.9	323	
-04	Y	25 X 50	8 C				1			1			EST. 10% PYRITE
		50 X 50	10 C		1					1			765-4
										2	27.3	10	
764-01	Y	75 X 125	20 C	1						1			TRACE SULPHIDES
										1	19.5	77	764-1



OVERBURDEN DRILLING MANAGEMENT LIMITED

107-15 CAPELLA COURT, NEPEAN, ONTARIO K2E 7X1 (613) 226-1771

February 23, 1987

Esso Minerals Canada
153 A rue Perreault
Val d'Or, Quebec
JOP 2H1

Attention: Mr. M. Durocher

Dear Sir:

Re: Sample Series - LDVT 764-02 to 727-01, 38 samples.

Please find enclosed our laboratory sample logs from the sample series as listed above. The non-magnetic heavy mineral concentrates were forward on February 23, 1987 to X-Ray Assay.

Should you require any additional information please do not hesitate to contact the undersigned.

Yours truly,

Kevan Elcomb
Laboratory Manager

KE:lk
Enc.

ESLD&FEB.WR1

OVERBURDEN DRILLING MANAGEMENT LIMITED

OF SAMPLES IN THIS REPORT = 38

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION				CLASS			
				M. I. CONC						CLAST				MATRIX			
	TABLE	+10	TABLE	TABLE	M.I.	CONC.	NON	NO.	CALC	SIZE	%	S/U	SD	ST	CY	COLOR	
	SPLIT	CHIPS	FEED	CONC	LIGHTS	TOTAL	MAG	MAG	V.G.	PPB							
											V/S	GR	LS	OT		SD	CY
LDVT-87																	
764-02	6.1	0.6	5.5	76.7	50.1	26.6	19.4	7.2	0	NA	P	90	10	NA	NA	U	Y
-03	8.9	1.4	7.5	73.3	43.6	29.7	19.8	9.9	0	NA	BL	90	10	NA	NA	U	Y
-04	8.3	0.4	7.9	139.8	95.7	44.1	33.6	10.5	0	NA	BK	95	5	NA	NA	U	Y
763-01	4.4	0.1	4.3	129.4	99.8	29.6	23.3	6.3	2	24	TR	NA	NA	NA	NA	U	Y
-02	5.5	0.0	5.5	161.2	129.4	31.8	23.4	8.4	2	275	TR	NA	NA	NA	NA	U	Y
-03	6.4	0.0	6.4	123.7	92.0	31.7	23.6	8.1	1	16	TR	NA	NA	NA	NA	U	Y
-04	5.7	0.4	5.3	159.1	119.0	40.1	32.6	7.5	0	NA	P	90	10	NA	NA	U	Y
-05	5.0	0.0	5.0	116.4	83.9	32.5	25.8	6.7	0	NA	TR	NA	NA	NA	NA	U	Y
759-01	4.4	0.0	4.4	151.9	126.5	25.4	18.1	7.3	2	46	TR	NA	NA	NA	NA	U	Y
-02	5.7	0.0	5.7	156.5	122.8	33.7	23.9	9.8	2	97	TR	NA	NA	NA	NA	U	Y
-03	6.3	0.0	6.3	125.4	97.6	27.8	20.1	7.7	2	247	TR	NA	NA	NA	NA	U	Y
-04	5.4	0.0	5.4	97.4	65.9	31.5	24.0	7.5	0	NA	TR	NA	NA	NA	NA	U	Y
-05	5.2	0.0	5.2	89.0	51.2	37.8	30.2	7.6	3	28	TR	NA	NA	NA	NA	U	Y
-06	5.4	0.0	5.4	72.4	37.7	34.7	28.3	6.4	2	8	P	90	10	NA	NA	U	Y
-07	3.3	0.0	3.3	77.0	48.2	28.8	24.0	4.8	2	2	TR	NA	NA	NA	NA	U	Y
758-01	6.2	0.0	6.2	97.1	63.3	33.8	24.6	9.2	3	34	TR	NA	NA	NA	NA	U	Y
-02	5.5	0.0	5.5	101.6	67.2	34.4	25.6	8.8	2	33	TR	NA	NA	NA	NA	U	Y
-03	6.3	0.6	5.7	93.7	61.1	32.6	24.8	7.8	3	35	P	85	15	NA	A	U	Y
-04	5.9	0.3	5.6	67.7	38.7	29.0	22.3	6.7	5	358	P	90	10	NA	NA	U	Y
-05	6.1	0.2	5.9	117.8	90.9	26.9	20.7	6.2	4	841	P	90	10	NA	NA	U	Y
757-01	5.6	0.0	5.6	83.4	59.5	23.9	15.1	8.8	1	13	TR	NA	NA	NA	NA	U	Y
-02	6.3	0.0	6.3	119.5	87.5	32.0	22.6	9.4	6	222	TR	NA	NA	NA	NA	U	Y
-03	6.4	0.3	6.1	138.5	103.0	35.5	26.7	8.8	1	7	P	90	10	NA	NA	U	Y
-04	6.3	0.0	6.3	157.9	123.6	34.3	27.2	7.1	1	7	TR	NA	NA	NA	NA	U	Y
-05	5.4	1.0	4.4	161.9	133.3	28.6	23.4	5.2	2	17	BK	99	1	NA	A	U	Y
738-01	5.5	0.0	5.5	198.0	164.9	33.1	25.1	8.0	3	128	TR	NA	NA	NA	NA	U	Y
-02	7.3	0.7	6.6	116.7	71.9	44.8	34.7	10.1	2	21	P	80	20	NA	NA	U	Y
-03	5.8	0.3	5.5	168.4	132.7	35.7	28.5	7.2	2	20	C	90	10	NA	NA	U	Y
-04	1.6	0.0	1.6	100.5	88.7	11.8	10.2	1.6	3	136	TR	NA	NA	NA	A	U	Y
739-01	6.7	0.3	6.4	145.3	109.0	36.3	27.4	8.9	2	91	C	90	10	NA	NA	U	Y
-02	9.2	0.7	8.5	202.1	153.1	49.0	33.2	15.8	3	1269	C	85	15	NA	NA	U	Y
-03	5.8	0.4	5.4	94.4	66.7	27.7	21.0	6.7	2	40	P	75	25	NA	A	U	Y
-04	8.6	0.6	8.0	125.3	85.7	39.6	30.8	8.8	4	40	P	80	20	NA	NA	U	Y
-05	6.1	0.6	5.5	139.9	111.4	28.5	21.9	6.6	5	82	P	85	15	NA	NA	U	Y
728-02	8.2	0.2	8.0	201.2	149.2	52.0	39.3	12.7	5	82	P	85	15	NA	NA	U	Y
-03	8.7	0.4	8.3	236.5	176.4	60.1	44.7	15.4	4	56769	P	85	15	NA	NA	U	Y
-04	4.9	0.1	4.8	103.9	72.7	31.2	24.2	7.0	8	359	C	90	10	NA	NA	U	Y
-01	5.3	0.1	5.2	162.6	126.8	35.8	27.9	7.9	6	112	P	85	15	NA	NA	U	Y

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

ESLD&FEB.WR1

TOTAL # OF PANNINGS

38

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR				DELICATE				TOTAL	NON	MAG	CALC V.G.	ASSAY	REMARKS
					T	P	T	P	T	P	T	P	GMS	PPB								

LDVT-87

764-02 Y NO VISIBLE GOLD

EST. 1% PYRITE 764-2

-03 Y NO VISIBLE GOLD

EST. 2% PYRITE 764-3

-04 Y NO VISIBLE GOLD

EST. 2% PYRITE 764-4

763-01	Y	50 X	50	10 C	1																
		50 X	75	13 C	1																

EST. 5% PYRITE

763-1

2 23.3 24

-02	Y	100 X	100	20 C	1																
		100 X	200	29 C	1																

EST. 5% PYRITE

763-2

2 23.4 275

-03	Y	50 X	75	13 C	1																
-----	---	------	----	------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

EST. 3% PYRITE

763-3

1 23.6 16

-04 Y NO VISIBLE GOLD

EST. 2% PYRITE 763-4

-05 Y NO VISIBLE GOLD

EST. 5% PYRITE 763-5

759-01	Y	25 X	75	10 C	1																
		50 X	100	15 C	1																

EST. 3% PYRITE

759-1

2 18.1 46

-02	Y	25 X	75	10 C	1																
		75 X	150	22 C	1																

EST. 5% PYRITE

759-2

2 23.9 97

-03	Y	25 X	25	5 C	1																
		150 X	150	29 C	1																

EST. 5% PYRITE

759-3

2 20.1 247

-04 Y NO VISIBLE GOLD

EST. 10% PYRITE 759-4

-05	Y	25 X	25	5 C	1																
		50 X	50	10 C	1																
		75 X	75	15 C	1																

EST. 5% PYRITE

759-5

3 30.2 28

GOLD CLASSIFICATION

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TABLE GOLD FROM SHAKING TABLE AND PANNING

ESLD6FEB.WR1

TOTAL # OF PANNINGS

38

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR				DELICATE				TOTAL MAG GMS	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
				T	P	T	P	T	P	T	P	T	P	T	P				
LDVT-87																			
-06	Y	25 X	25	5 C	1											1			EST. 10% PYRITE
		50 X	50	10 C	1											1			
																2	28.3	8	759-6
-07	Y	25 X	25	5 C	2											2			EST. 10% PYRITE
																2	24.0	2	759-7
758-01	Y	25 X	50	8 C	1											1			EST. 15% PYRITE
		50 X	75	13 C	1							1				2			758-1 (33% delicate)
																3	24.6	34	
-02	Y	50 X	50	10 C	1											1			EST. 15% PYRITE
		75 X	75	15 C	1											1			758-2
																2	25.6	33	
-03	Y	25 X	25	5 C	1											1			EST. 10% PYRITE
		50 X	50	10 C								1				1			
		50 X	100	15 C						1						1			758-3 (33% delicate)
																3	24.8	35	
-04	Y	25 X	25	5 C	2											2			EST. 7% PYRITE
		50 X	50	10 C	1											1			
		100 X	100	20 C	1											1			
		150 X	175	22 C	1											1			758-4
																5	22.3	358	
-05	Y	50 X	50	10 C	2											2			EST. 3% PYRITE
		75 X	100	18 C	1											1			
		200 X	250	42 C	1											1			758-5
																4	20.7	841	
757-01	Y	50 X	50	10 C	1											1			EST. 1% PYRITE
																1	15.1	13	757-1
-02	Y	25 X	25	5 C	2											2			NO SULPHIDES
		50 X	50	10 C	1											1			
		50 X	75	13 C	1											1			
		100 X	100	20 C	1											1			
		100 X	150	25 C	1											1			

GOLD CLASSIFICATION

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FILE GOLD FROM SHAKING TABLE AND PANNING

ESLD6FEB.WR1

TOTAL # OF PANNINGS 38

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR				DELICATE				TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
					T	P	T	P	T	P	T	P								

LDVT-87

-03	Y	50 X	50	10 C	1									1		EST. 7% PYRITE
		75 X	75	15 C	1									1		

2	21.0	40
---	------	----

739-3

-04	Y	50 X	50	10 C	3									3		EST. 10% PYRITE
		50 X	100	15 C	1									1		

4	30.8	40
---	------	----

739-4

-05	Y	25 X	25	5 C	1									1		EST. 10% PYRITE
		50 X	50	10 C	2									2		
		50 X	75	13 C	1									1		
		75 X	100	18 C	1									1		

5	21.9	82
---	------	----

739-5

728-02	Y	25 X	25	5 C	2									2		EST. 25% PYRITE
		25 X	75	10 C	1									1		
		100 X	100	20 C	2									2		

5	39.3	82
---	------	----

728-2

-03	Y	25 X	50	8 C				1						1		EST. 10% PYRITE
		50 X	75	13 C	1									1		
		75 X	150	22 C	1									1		
		1000 X	1600	200 M	1									1		

4	44.7	56769
---	------	-------

728-3

-04	Y	25 X	50	8 C	1									1		EST. 10% PYRITE
		50 X	50	10 C	2									2		
		50 X	75	13 C	1									1		
		75 X	100	18 C	1									1		
		100 X	100	20 C	1	1								2		
		125 X	150	27 C	1									1		

8	24.2	359
---	------	-----

728-4

727-01	Y	25 X	50	8 C					1					1		EST. 0.5% PYRITE
		50 X	75	13 C	1					1				2		
		75 X	75	15 C	2									2		
		75 X	100	18 C	1									1		

6	27.9	112
---	------	-----

727-1 (33% delicate)



LDVT

OVERBURDEN DRILLING MANAGEMENT LIMITED

107-15 CAPELLA COURT, NEPEAN, ONTARIO K2E 7X1 (613) 226-1771

February 26, 1987

Esso Minerals Canada
153 A rue Perreault
Val d'Or, Quebec
JOP 2H1

Attention: Mr. M. Durocher

Dear Sir:

Re: Sample Series - LDVT 727-02 to 741-02, 24 samples.

Please find enclosed our laboratory sample logs from the sample series as listed above. Note, these are the last samples in the LDVT series. The non-magnetic heavy mineral concentrates were forward on February 26, 1987 to X-Ray Assay.

Should you require any additional information please do not hesitate to contact the undersigned.

Yours truly,

Kevan Elcomb
Laboratory Manager

KE:lk
Enc.

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

CLAST:

SIZE OF CLAST:

G: GRANULES
P: PEBBLES
C: COBBLES
BL: BOULDER CHIPS
BK: BEDROCK CHIPS

% CLAST COMPOSITION

V/S VOLCANICS AND SEDIMENTS
GR GRANITICS
LS LIMESTONE
OT OTHER LITHOLOGIES (REFER TO FOOTNOTES BELOW)
TR ONLY TRACE PRESENT
NA NOT APPLICABLE

MATRIX:

S/U SORTED OR UNSORTED
SD SAND : Y YES FRACTION PRESENT : F: FINE
ST SILT : N FRACTION NOT PRESENT : M: MEDIUM
CY CLAY : : C: COARSE

COLOR:

B: BEIGE
GY: GREY
GB: GREY BEIGE
GN: GREEN
GG: GREY GREEN
BN: BROWN
BK: BLACK
OC: OCHRE
PK: PINK
OE: ORANGE

DESCRIPTION:

BLD: BOULDER CHIPS
BDK: BEDROCK CHIPS

p=1d7feb.wr1

OVERBURDEN DRILLING MANAGEMENT LIMITED

(# OF SAMPLES IN THIS REPORT = 24

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				AU		DESCRIPTION										CLASS
				M. I. CONC						CLAST										
	TABLE	+10	TABLE	TABLE	M.I.	CONC.	NON	NO.	CALC	SIZE	%	S/U SD				ST	CY	COLOR		
	SPLIT	CHIPS	FEED	CONC	LIGHTS	TOTAL	MAG	MAG	V.G.	PPB										
												V/S	GR	LS	OT			SD	CY	
LDVT-67																				
727-02	6.8	0.6	6.2	174.2	136.1	38.1	28.3	9.8	3	142	C	90	10	NA	NA	U	Y	Y	Y	TILL
-03	9.2	0.6	8.6	154.1	113.6	40.5	31.1	9.4	5	138	P	75	25	NA	NA	U	Y	Y	N	TILL
739-06	8.7	0.4	8.3	126.3	83.7	42.6	27.3	15.3	3	120	C	90	10	NA	NA	U	Y	Y	Y	TILL
-07	8.2	0.6	7.6	96.0	68.5	27.5	20.2	7.3	4	205	P	85	15	NA	NA	U	Y	Y	Y	TILL
740-01	4.7	0.2	4.5	94.7	70.9	23.8	18.3	5.5	3	57	P	80	20	NA	NA	U	Y	Y	Y	TILL
-02	4.3	0.5	3.8	81.1	67.9	13.2	10.1	3.1	1	37	P	70	30	NA	A	U	Y	Y	Y	TILL
-03	5.9	0.0	5.9	159.8	131.1	28.7	21.8	6.9	1	17	TR	NA	NA	NA	NA	U	Y	Y	N	TILL
-04	5.8	0.0	5.8	44.2	24.8	19.4	14.2	5.2	4	992	TR	NA	NA	NA	NA	U	Y	Y	N	TILL
-05	5.8	0.0	5.8	108.6	80.7	27.9	21.7	6.2	3	358	TR	NA	NA	NA	NA	U	Y	Y	N	TILL
-06	5.8	0.4	5.4	78.3	51.8	26.5	20.4	6.1	4	80	P	75	25	NA	NA	U	Y	Y	N	TILL
741-01	5.7	0.0	5.7	104.0	72.9	31.1	24.8	6.3	4	388	TR	NA	NA	NA	NA	U	Y	Y	B	TILL&BDK
728-05	3.0	0.4	2.6	140.7	139.6	1.1	0.9	0.2	1	1667	C,BK100	TR	NA	NA	NA	U	Y	Y	Y	TILL&BDK
-02	6.2	0.8	5.4	133.8	111.9	21.9	15.6	6.3	1	12	C	75	25	NA	A	U	Y	Y	Y	TILL
-03	6.8	0.2	6.6	109.2	90.1	19.1	13.1	6.0	6	737	C	75	25	NA	A	U	Y	Y	Y	TILL
756-01	5.1	0.0	5.1	167.8	132.6	35.2	27.0	8.2	3	30	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-02	9.0	2.5	6.5	124.5	101.2	23.3	16.6	6.7	3	18	C	80	20	NA	NA	U	Y	Y	Y	TILL
-03	9.5	2.0	7.5	163.8	134.0	29.8	21.3	8.5	0	NA	C	90	10	NA	NA	U	Y	Y	Y	TILL
-04	5.0	1.2	3.8	81.6	67.9	13.7	10.8	2.9	2	36	BK	99	1	NA	NA	U	Y	Y	Y	TILL&BDK
728-01	9.2	0.1	9.1	218.9	178.7	40.2	30.5	9.7	5	158	P,BK	90	10	NA	NA	U	Y	Y	Y	TILL
729-01	8.8	0.0	8.8	153.9	123.4	30.5	24.6	5.9	7	440	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL
-02	8.7	0.3	8.4	181.0	140.9	40.1	30.7	9.4	3	171	P	60	40	NA	NA	U	Y	Y	Y	TILL
-03	9.6	0.6	9.0	248.7	198.2	50.5	38.8	11.7	7	952	P	60	40	NA	NA	U	Y	Y	Y	TILL
-04	4.1	0.3	3.8	113.2	97.5	15.7	13.4	2.3	1	2	P,BK	95	5	NA	NA	U	Y	Y	Y	TILL
741-02	1.4	0.0	1.4	136.7	127.1	9.6	8.0	1.6	1	3	TR	NA	NA	NA	NA	U	Y	Y	Y	TILL

F. NOTES:

A GRITTY CLAY LUMPS PRESENT

B SMOOTH CLAY LUMPS PRESENT

C ORGANICS PRESENT

D SAMPLE HIGHLY OXIDIZED

ABBREVIATIONS

NUMBER OF GRAINS:

T: NUMBER FOUND ON SHAKING TABLE
P: NUMBER FOUND AFTER PANNING

THICKNESS:

C: CALCULATED THICKNESS OF GRAIN
M: ACTUAL MEASURED THICKNESS OF GRAIN

GOLD CLASSIFICATION

VARIABLE GOLD FROM SHAKING TABLE AND PANNING

esld7feb.wrl

TOTAL # OF PANNINGS 24

esld7feb.wrl				NUMBER OF GRAINS														
TOTAL # OF PANNINGS				24														
				ABRADED		IRREGULAR		DELICATE		TOTAL		NON		CALC V.G.				
SAMPLE # FANNED				=====		=====		=====		=====		MAG		ASSAY				
Y/N				DIAMETER		THICKNESS		T P		T P		T P		GMS		PPB REMARKS		
LDVT-87																		
727-02 Y				75 X 100		18 C		1				1		EST. 5% PYRITE				
				75 X 125		20 C				1		1		1000 GRAINS ARSENOPIRYTE				
				100 X 100		20 C				1		1		727-2 (66.6% delicate)				
												3		28.3		142		
-03 Y				25 X 50		8 C		1				1		EST. 10% PYRITE				
				50 X 50		10 C				1		1		1000 GRAINS ARSENOPIRYTE				
				75 X 100		18 C		1				1						
				75 X 125		20 C		1				1						
				100 X 100		20 C		1				1		727-3 (20% delicate)				
												5		31.1		138		
739-06 Y				25 X 75		10 C		2				2		EST. 5% PYRITE				
				100 X 150		25 C		1				1		1000 GRAINS ARSENOPIRYTE				
												3		27.3		120		
-07 Y				50 X 75		13 C		1				1		EST. 10% PYRITE				
				50 X 100		15 C		1				1		500 GRAINS ARSENOPIRYTE				
				75 X 100		18 C		1				1						
				75 X 150		22 C		1				1		739-7				
												4		20.2		205		
740-01 Y				25 X 50		8 C		1				1		EST. 2% PYRITE				
				50 X 50		10 C		1				1		300 GRAINS ARSENOPIRYTE				
				10 X 150		16 C		1				1		740-1				
												3		18.3		57		
-02 Y				50 X 75		13 C				1		1		EST. 7% PYRITE				
												1		10.1		37		
-03 Y				50 X 75		13 C		1				1		EST. 10% PYRITE				
												1		21.8		17		
-04 Y				25 X 25		5 C		1				1		EST. 10% PYRITE				
				100 X 150		25 C		1				1		200 GRAINS ARSENOPIRYTE				
				100 X 225		31 C		1				1						
				125 X 175		29 C		1				1		740-4				
												4		14.2		992		

GOLD CLASSIFICATION

V. GOLD FROM SHAKING TABLE AND PANNING

esld7feb.wrl

TOTAL # OF PANNINGS 24

esld7feb.wrl		NUMBER OF GRAINS													
TOTAL # OF PANNINGS		24													
SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED		IRREGULAR		DELICATE		TOTAL	NON	CALC V.G.	REMARKS	
					T	P	T	P	T	P					MAG
												GMS	PPB		
LDVT-87															
-05	Y		25 X 25	5 C		1					1			EST. 7% PYRITE	
			50 X 150	20 C		1					1			150 GRAINS ARSENOPIRYTE	
			125 X 200	31 C	1						1				
											3	21.7	358	740-5	
-06	Y		25 X 25	5 C		2					2			EST. 15% PYRITE	
			25 X 50	8 C		1					1			20 GRAINS ARSENOPIRYTE	
			100 X 100	20 C		1					1				
											4	20.4	80	740-6	
741-01	Y		50 X 50	10 C		2					2			EST. 10% PYRITE	
			75 X 125	20 C	1						1			20 GRAINS ARSENOPIRYTE	
			75 X 275	34 C	1						1				
											4	24.8	388	741-1	
728-05	Y		100 X 100	20 C						1	1			EST. 0.5% PYRITE	
											1	0.9	1667	728-5 (100% delicate)	
714-02	Y		50 X 50	10 C		1					1			EST. 3% PYRITE	
											1	15.6	12	75 GRAINS ARSENOPIRYTE 714-2	
-03	Y		25 X 25	10 C		1					1			EST. 10% PYRITE	
			25 X 75	10 C		1					1			150 GRAINS ARSENOPIRYTE	
			50 X 125	18 C		2					2				
			75 X 100	18 C		1					1				
			125 X 200	31 C			1				1				
											6	13.1	737	714-3	
756-01	Y		25 X 50	8 C		2					2			EST. 25% PYRITE	
			75 X 75	15 C		1					1				
											3	27.0	30	756-1	
-02	Y		25 X 25	5 C		1					1			EST. 7% PYRITE	
			25 X 50	8 C		1					1			50 GRAINS ARSENOPIRYTE	
			50 X 50	10 C		1					1				
											3	16.6	18	756-2	
-03	Y	NO VISIBLE GOLD												EST. 3% PYRITE	
														300 GRAINS ARSENOPIRYTE 756-3	

POND CLASSIFICATION

VIBRABLE GOLD FROM SHAKING TABLE AND PANNING

esld7feb.wri

TOTAL # OF PANNINGS

24

NUMBER OF GRAINS

SAMPLE #	PANNED	Y/N	DIAMETER	THICKNESS	ABRADED				IRREGULAR				DELICATE				TOTAL	NON	CALC V.G.	MAG	ASSAY	REMARKS
					T	P	T	P	T	P	T	P										

LDVT-87

-04

Y

50 X

50

10 C

2

2

EST. 1% PYRITE

756-4

2 10.8

36

200 GRAINS ARSENOPYRITE

728-01

Y

50 X

50

10 C

1

1

EST. 15% PYRITE

50 X

75

13 C

1

1

75 X

75

15 C

1

1

75 X

125

20 C

1

1

100 X

125

22 C

1

1

728-1

5 30.5

158

729-01

Y

25 X

25

5 C

1

1

EST. 5% PYRITE

25 X

50

8 C

2

2

50 X

50

10 C

1

1

50 X

75

13 C

1

1

125 X

150

27 C

1

1

150 X

175

31 C

1

1

729-1

7 24.6

440

-02

Y

75 X

100

18 C

1

1

EST. 10% PYRITE

75 X

150

22 C

1

1

20 GRAINS ARSENOPYRITE

100 X

125

22 C

1

1

729-2

3 30.7

171

-03

Y

25 X

25

5 C

3

1

4

EST. 7% PYRITE

75 X

150

22 C

1

1

75 GRAINS ARSENOPYRITE

150 X

175

31 C

1

1

150 X

400

50 C

1

1

729-3 (14.29% delicate)

7 38.8

952

-04

Y

25 X

25

5 C

1

1

EST. 7% PYRITE

25 X

25

5 C

1

1

25 GRAINS ARSENOPYRITE

729-4

1 13.4

2

741-02

Y

25 X

25

5 C

1

1

EST. 1% PYRITE

25 X

25

5 C

1

1

50 GRAINS ARSENOPYRITE

1 8.0

3

741-2 (100% delicate)



CERTIFICATE OF ANALYSIS

TO: ESSO MINERALS CANADA
ATTN: MARCEL DUROCHER
153A PERREAULT AVENUE
VAL D'OR, QUEBEC
J9P 2H1

CUSTOMER NO. 213

DATE SUBMITTED
23-OCT-86

REPORT 30084

REF. FILE 25520-X5

140 HEAVY MINERALS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
SC PPM	NA	10.000
CR PPM	NA	500.000
FE %	NA	5.000
CO PPM	NA	100.000
AS PPM	NA	1.000
MO PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	300.000
LA PPM	NA	10.000
TA PPM	NA	10.000
W PPM	NA	4.000
TH PPM	NA	10.000
U PPM	NA	2.000
WEIGHT GM		0.010

X-RAY ASSAY LABORATORIES LIMITED

DATE 19-NOV-86

CERTIFIED BY 



SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
LDVT-86-23401	300	70	700	21	<100
LDVT-86-23402	190	80	600	18	<100
LDVT-86-23501	410	70	700	17	<100
LDVT-86-23502	220	70	600	16	<100
LDVT-86-23601	550	70	700	21	<100
LDVT-86-23602	850	80	800	25	100
LDVT-86-23701	120	70	700	19	<100
LDVT-86-23702	720	80	900	19	200
LDVT-86-23801	230	70	700	18	<100
LDVT-86-23901	210	70	500	18	<100
LDVT-86-24001	860	80	800	24	<100
LDVT-86-24101	200	70	500	10	<100
LDVT-86-24102	240	70	700	20	100
LDVT-86-24401	98	70	700	19	<100
LDVT-86-24501	300	70	700	21	<100
LDVT-86-24601	64	60	600	18	<100
LDVT-86-24602	150	80	700	20	<100
LDVT-86-24701	220	60	600	17	<100
LDVT-86-24702	100	70	700	18	<100
LDVT-86-24801	190	60	600	21	100
LDVT-86-24901	630	70	600	17	<100
LDVT-86-24902	170	80	700	21	<100
LDVT-86-25001	300	70	500	19	<100
LDVT-86-25002	110	70	600	19	<100
LDVT-86-25101	51	80	500	21	<100
LDVT-86-25102	78	70	700	20	<100
LDVT-86-25201	50	60	500	<8	<100
LDVT-86-25601	370	90	700	19	<100
LDVT-86-25602	610	80	800	23	<100
LDVT-86-25701	820	20	<500	8	<100
LDVT-86-25801	630	70	700	18	<100
LDVT-86-26201	170	80	700	16	<100
LDVT-86-26301	350	90	500	20	<100
LDVT-86-26401	220	70	800	25	<100
LDVT-86-26501	1700	70	2200	19	<100
LDVT-86-26601	490	60	1000	21	<100
LDVT-86-26701	730	70	700	21	<100
LDVT-86-26702	500	80	800	26	<100
LDVT-86-26801	270	90	900	22	<100
LDVT-86-27001	430	80	800	25	<100
LDVT-86-27101	210	60	<500	19	<100
LDVT-86-27301	270	70	900	21	<100
LDVT-86-27401	450	60	500	22	<100
LDVT-86-28001	700	50	800	23	<100
LDVT-86-28002	120	70	800	21	<100
LDVT-86-28301	100	70	<500	18	<100
LDVT-86-28302	240	70	600	19	<100
LDVT-86-28501	220	60	600	18	<100



SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
LDVT-86-28502	75	40	<500	10	<100
LDVT-86-28701-A	150	90	600	18	<100
LDVT-86-28701-B	270	80	900	21	<100
LDVT-86-28702-A	100	60	600	13	<100
LDVT-86-28702-B	180	60	600	19	<100
LDVT-86-29001	200	60	800	17	<100
LDVT-86-29002	210	<10	600	<5	<100
LDVT-86-29101	300	60	600	19	<100
LDVT-86-29102	1600	80	700	20	<100
LDVT-86-29201	370	70	700	22	<100
LDVT-86-29301	120	70	500	23	<100
LDVT-86-29401	230	70	700	19	<100
LDVT-86-29402	110	60	<500	17	<100
LDVT-86-29501	1600	80	800	25	<100
LDVT-86-29502	240	80	900	24	<100
LDVT-86-29701	720	90	800	31	<100
LDVT-86-29702	330	70	600	19	<100
LDVT-86-29801	17	80	600	<5	<100
LDVT-86-29901	200	80	1100	17	<100
LDVT-86-29902	230	70	800	23	<100
LDVT-86-30101	290	70	700	24	<100
LDVT-86-30102	180	70	<500	21	100
LDVT-86-30201	2600	70	800	26	<100
LDVT-86-30202	200	70	600	24	200
LDVT-86-30301	490	80	800	23	<100
LDVT-86-30302	380	60	800	24	200
LDVT-86-30401	240	50	700	26	200
LDVT-86-30501	370	70	700	24	<100
LDVT-86-30502	110	80	800	29	100
LDVT-86-30601	510	80	900	22	<100
LDVT-86-30602	220	70	800	24	<100
LDVT-86-30701	340	70	900	28	<100
LDVT-86-30702	350	80	700	25	<100
LDVT-86-30801	630	70	1000	25	<100
LDVT-86-30802	120	80	800	24	100
LDVT-86-31001	1100	60	<500	19	<100
LDVT-86-31002	390	70	700	23	<100
LDVT-86-31101	360	80	700	23	<100
LDVT-86-31102	300	90	600	27	<100
LDVT-86-31201	430	70	800	22	<100
LDVT-86-31202	220	70	700	22	<100
LDVT-86-31401	410	60	<500	26	<100
LDVT-86-31402	110	60	600	19	<100
LDVT-86-31501	230	60	800	21	<100
LDVT-86-31701	200	60	800	20	<100
LDVT-86-31702	170	60	600	18	<100
LDVT-86-31801	500	60	600	22	<100
LDVT-86-31802	170	50	500	21	<100



19-NOV-86

REPORT 30084

REF.FILE 25520-X5 PAGE 3 OF 9

SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
LDVT-86-50001	1300	80	800	28	200
LDVT-86-50002	790	70	<500	20	200
LDVT-86-50101	170	70	600	21	<100
LDVT-86-50102	180	70	<500	21	100
LDVT-86-50103	150	70	500	24	100
LDVT-86-50104	50	40	<500	18	100
LDVT-86-50201	<8	60	1300	10	100
LDVT-86-50202	110	90	<500	17	100
LDVT-86-50203	120	50	<500	16	100
LDVT-86-50301	150	80	500	15	<100
LDVT-86-50401	1600	80	500	15	100
LDVT-86-50701	350	80	700	19	100
LDVT-86-50801	77	70	600	15	<100
LDVT-86-50802	550	70	<500	17	<100
LDVT-86-50803	1500	80	500	16	<100
LDVT-86-50804	280	80	600	17	100
LDVT-86-50901	140	60	<500	14	<100
LDVT-86-50902	2000	70	600	24	200
LDVT-86-50903	440	60	500	18	200
LDVT-86-50904	150	50	<500	19	<100
LDVT-86-51001	650	50	<500	23	100
LDVT-86-51002	430	60	<500	20	200
LDVT-86-51003	190	50	700	25	400
LDVT-86-51101	110	70	700	21	<100
LDVT-86-51102	25	60	800	19	<100
LDVT-86-51103	100	80	700	23	<100
LDVT-86-51104	60	70	<500	20	<100
LDVT-86-51105	29	70	500	19	<100
LDVT-86-51106	48	60	<500	15	<100
LDVT-86-51107	140	80	700	17	<100
LDVT-86-51108	140	100	600	18	<100
LDVT-86-51109	300	80	500	16	100
LDVT-86-51110	690	70	500	23	100
LDVT-86-51111	230	80	<500	19	100
LDVT-86-51201	150	70	600	20	<100
LDVT-86-51202	75	70	600	21	100
LDVT-86-51301	260	50	700	35	200
LDVT-86-51401	35	60	500	17	100
LDVT-86-51402	68	30	<500	13	100
LDVT-86-51403	27	20	<500	22	100
LDVT-86-51404	230	20	<500	18	100
LDVT-86-51405	90	50	600	22	200
LDVT-86-51501	330	40	<500	15	100
LDVT-86-51601	58	60	500	13	<100



SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT-86-23401	15	8	0.4	<300	230
LDVT-86-23402	9	<6	0.3	<300	250
LDVT-86-23501	3	<5	0.3	700	220
LDVT-86-23502	4	9	0.3	<300	210
LDVT-86-23601	10	<5	0.6	<300	250
LDVT-86-23602	11	5	0.7	<300	270
LDVT-86-23701	12	<5	0.5	<300	230
LDVT-86-23702	24	<5	0.4	<400	270
LDVT-86-23801	8	<5	0.3	<300	260
LDVT-86-23901	7	5	0.5	<400	230
LDVT-86-24001	5	6	0.6	<300	270
LDVT-86-24101	23	<5	0.5	<400	270
LDVT-86-24102	84	6	0.6	<300	250
LDVT-86-24401	18	<5	0.5	<400	220
LDVT-86-24501	3	<5	0.5	<300	260
LDVT-86-24601	4	<5	0.2	<300	230
LDVT-86-24602	4	11	0.4	500	260
LDVT-86-24701	4	<5	0.2	<300	230
LDVT-86-24702	4	7	0.4	300	270
LDVT-86-24801	72	9	0.7	300	230
LDVT-86-24901	6	<6	0.5	<300	230
LDVT-86-24902	4	13	0.9	400	290
LDVT-86-25001	3	5	0.3	<300	260
LDVT-86-25002	3	<5	0.3	600	250
LDVT-86-25101	4	<5	0.3	700	290
LDVT-86-25102	3	<5	0.3	<400	260
LDVT-86-25201	190	<5	0.9	<300	10
LDVT-86-25601	17	<5	0.6	300	280
LDVT-86-25602	4	8	0.3	700	290
LDVT-86-25701	3	<5	<0.2	<300	100
LDVT-86-25801	240	14	0.5	400	240
LDVT-86-26201	18	<5	0.5	300	240
LDVT-86-26301	6	<5	0.4	<300	230
LDVT-86-26401	9	<5	0.5	500	240
LDVT-86-26501	4	<5	0.4	<400	320
LDVT-86-26601	3	<5	0.3	<300	240
LDVT-86-26701	4	<7	0.4	400	230
LDVT-86-26702	4	8	0.5	300	270
LDVT-86-26801	4	11	0.8	400	330
LDVT-86-27001	3	7	0.5	400	280
LDVT-86-27101	4	<5	0.3	<300	240
LDVT-86-27301	4	<5	0.4	<400	280
LDVT-86-27401	43	<5	0.4	300	230
LDVT-86-28001	6	<5	0.2	<300	<10
LDVT-86-28002	2	<5	0.3	<300	270
LDVT-86-28301	2	7	0.4	<300	240
LDVT-86-28302	3	<5	0.3	<300	230
LDVT-86-28501	2	<5	0.4	<300	220



SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT-86-50001	200	7	1.4	500	310
LDVT-86-50002	310	7	1.3	500	240
LDVT-86-50101	27	11	0.4	<400	240
LDVT-86-50102	270	10	<0.3	600	210
LDVT-86-50103	130	8	0.6	400	220
LDVT-86-50104	3300	<5	1.1	<600	160
LDVT-86-50201	52	<5	<0.2	<300	80
LDVT-86-50202	190	<5	<0.3	500	250
LDVT-86-50203	2300	<8	<0.8	<900	160
LDVT-86-50301	81	<6	0.8	<400	230
LDVT-86-50401	89	<5	0.7	300	150
LDVT-86-50701	120	7	0.9	500	300
LDVT-86-50801	17	<5	0.5	<300	190
LDVT-86-50802	7	<5	0.3	<400	270
LDVT-86-50803	20	<5	0.4	300	220
LDVT-86-50804	100	<5	0.4	300	260
LDVT-86-50901	20	<5	0.6	<300	180
LDVT-86-50902	280	<5	1.1	<500	230
LDVT-86-50903	250	<6	1.3	<400	190
LDVT-86-50904	230	<5	2.6	<300	90
LDVT-86-51001	310	10	0.4	<400	130
LDVT-86-51002	190	<5	0.6	<300	140
LDVT-86-51003	420	<8	4.0	700	230
LDVT-86-51101	13	<5	0.3	<300	290
LDVT-86-51102	29	<5	0.4	<300	270
LDVT-86-51103	33	<5	0.4	500	340
LDVT-86-51104	56	<5	0.7	<300	240
LDVT-86-51105	50	<5	0.4	400	220
LDVT-86-51106	9	6	0.5	300	170
LDVT-86-51107	16	8	0.5	300	230
LDVT-86-51108	9	11	0.4	300	250
LDVT-86-51109	52	<5	0.6	<300	210
LDVT-86-51110	61	7	0.7	600	250
LDVT-86-51111	82	7	0.7	<300	210
LDVT-86-51201	51	<5	0.5	500	280
LDVT-86-51202	100	5	0.6	500	270
LDVT-86-51301	190	<5	3.3	<500	190
LDVT-86-51401	55	<5	0.4	600	130
LDVT-86-51402	770	7	2.2	<500	70
LDVT-86-51403	240	<5	4.3	<300	20
LDVT-86-51404	700	<5	10.0	<300	80
LDVT-86-51405	830	<8	5.4	<300	50
LDVT-86-51501	190	<5	1.6	400	160
LDVT-86-51601	17	<5	0.5	<300	240



SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT-86-28502	1	<5	0.2	<300	150
LDVT-86-28701-A	4	8	0.5	<300	280
LDVT-86-28701-B	4	13	0.5	500	290
LDVT-86-28702-A	3	<5	0.5	<300	210
LDVT-86-28702-B	8	<5	0.4	<300	10
LDVT-86-29001	2	<5	0.6	300	260
LDVT-86-29002	3	<5	0.4	<300	10
LDVT-86-29101	9	7	0.5	400	230
LDVT-86-29102	10	12	0.5	500	270
LDVT-86-29201	3	<5	0.5	<300	260
LDVT-86-29301	3	<5	0.4	400	230
LDVT-86-29401	4	<6	0.6	400	240
LDVT-86-29402	3	<5	0.4	<300	250
LDVT-86-29501	4	13	0.5	<300	290
LDVT-86-29502	4	<5	0.5	<300	270
LDVT-86-29701	4	<5	0.7	500	290
LDVT-86-29702	18	<5	0.5	<300	250
LDVT-86-29801	1	<5	0.5	400	270
LDVT-86-29901	1	6	0.7	<400	330
LDVT-86-29902	3	5	0.5	600	350
LDVT-86-30101	4	<5	0.4	<300	270
LDVT-86-30102	52	<5	0.5	<300	240
LDVT-86-30201	4	<5	0.5	<400	300
LDVT-86-30202	180	<6	1.3	<400	260
LDVT-86-30301	6	<5	0.5	<300	310
LDVT-86-30302	200	<5	2.5	<500	230
LDVT-86-30401	110	<5	0.8	300	220
LDVT-86-30501	5	<5	0.4	<300	340
LDVT-86-30502	88	<5	0.5	<300	340
LDVT-86-30601	25	6	0.4	500	320
LDVT-86-30602	22	<5	0.4	<400	310
LDVT-86-30701	3	<5	0.4	<400	310
LDVT-86-30702	4	<5	0.5	<400	330
LDVT-86-30801	3	<5	0.2	500	330
LDVT-86-30802	61	5	0.4	<300	10
LDVT-86-31001	3	<5	0.3	400	230
LDVT-86-31002	3	<5	0.5	<300	470
LDVT-86-31101	2	<6	0.7	600	600
LDVT-86-31102	4	<5	0.6	<300	300
LDVT-86-31201	3	<5	0.3	<300	360
LDVT-86-31202	4	<5	0.5	<300	520
LDVT-86-31401	4	<5	0.5	<300	290
LDVT-86-31402	4	<5	0.4	500	260
LDVT-86-31501	3	<5	0.4	<300	270
LDVT-86-31701	2	6	0.3	600	280
LDVT-86-31702	3	<5	0.5	<300	250
LDVT-86-31801	3	<5	0.4	400	290
LDVT-86-31802	40	<5	0.4	<300	240



19-NOV-86

REPORT 30084

REF.FILE 25520-X5

PAGE 7 OF 9

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT-86-23401	<10	5	40	11	24.2
LDVT-86-23402	<10	5	50	15	19.3
LDVT-86-23501	<10	5	40	13	25.8
LDVT-86-23502	<10	6	50	14	19.6
LDVT-86-23601	10	5	40	13	10.2
LDVT-86-23602	<10	12	70	14	20.5
LDVT-86-23701	10	5	30	10	15.6
LDVT-86-23702	<10	8	50	13	14.2
LDVT-86-23801	10	6	40	12	13.1
LDVT-86-23901	10	7	40	12	14.9
LDVT-86-24001	<10	7	60	14	19.7
LDVT-86-24101	10	7	40	11	13.8
LDVT-86-24102	<10	6	50	15	25.6
LDVT-86-24401	<10	9	30	10	13.8
LDVT-86-24501	<10	8	70	18	19.1
LDVT-86-24601	10	<4	40	11	17.5
LDVT-86-24602	10	6	60	16	22.6
LDVT-86-24701	10	4	40	13	15.8
LDVT-86-24702	<10	4	60	17	21.7
LDVT-86-24801	<10	6	50	11	19.5
LDVT-86-24901	<10	6	60	16	17.7
LDVT-86-24902	<10	9	70	19	19.1
LDVT-86-25001	10	4	40	13	15.8
LDVT-86-25002	10	7	40	13	14.0
LDVT-86-25101	<10	6	40	12	16.3
LDVT-86-25102	10	5	50	14	16.4
LDVT-86-25201	<10	16	30	11	9.42
LDVT-86-25601	<10	8	60	19	25.1
LDVT-86-25602	<10	7	60	17	19.8
LDVT-86-25701	<10	5	20	5	15.1
LDVT-86-25801	<10	8	60	16	30.8
LDVT-86-26201	<10	7	50	14	34.6
LDVT-86-26301	<10	9	50	15	22.8
LDVT-86-26401	<10	10	50	14	17.3
LDVT-86-26501	10	10	80	17	11.9
LDVT-86-26601	10	5	40	14	15.5
LDVT-86-26701	10	8	60	16	19.3
LDVT-86-26702	<10	8	60	15	20.7
LDVT-86-26801	10	7	70	21	20.1
LDVT-86-27001	10	9	60	20	25.0
LDVT-86-27101	10	5	40	11	15.8
LDVT-86-27301	10	5	50	14	10.0
LDVT-86-27401	<10	6	50	13	37.9
LDVT-86-28001	10	4	50	12	15.4
LDVT-86-28002	10	7	40	11	16.8
LDVT-86-28301	<10	5	40	15	26.0
LDVT-86-28302	<10	6	50	15	23.3
LDVT-86-28501	<10	5	60	14	21.2



SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT-86-28502	<10	<4	30	7	35.3
LDVT-86-28701-A	<10	6	50	16	22.8
LDVT-86-28701-B	10	6	60	19	22.5
LDVT-86-28702-A	10	4	30	11	15.1
LDVT-86-28702-B	<10	6	50	13	13.2
LDVT-86-29001	10	6	50	15	11.8
LDVT-86-29002	<10	5	50	13	12.1
LDVT-86-29101	<10	6	50	16	23.7
LDVT-86-29102	<10	5	60	17	21.5
LDVT-86-29201	<10	6	70	17	21.8
LDVT-86-29301	<10	6	50	15	19.4
LDVT-86-29401	<10	5	60	16	17.4
LDVT-86-29402	10	5	50	12	15.9
LDVT-86-29501	10	5	70	17	23.9
LDVT-86-29502	10	6	60	16	23.7
LDVT-86-29701	<10	6	60	14	19.1
LDVT-86-29702	<10	6	50	15	21.2
LDVT-86-29801	<10	7	40	13	16.3
LDVT-86-29901	20	6	60	17	11.2
LDVT-86-29902	10	7	60	16	14.6
LDVT-86-30101	10	6	50	13	15.1
LDVT-86-30102	<10	5	50	14	22.7
LDVT-86-30201	10	7	60	14	12.8
LDVT-86-30202	<10	6	70	16	21.8
LDVT-86-30301	10	7	60	15	12.9
LDVT-86-30302	<10	6	60	14	18.7
LDVT-86-30401	<10	6	60	13	18.6
LDVT-86-30501	10	7	60	16	14.4
LDVT-86-30502	<10	5	50	13	15.2
LDVT-86-30601	10	7	60	15	11.6
LDVT-86-30602	10	6	50	15	12.6
LDVT-86-30701	10	6	60	16	11.6
LDVT-86-30702	10	7	50	15	10.8
LDVT-86-30801	10	9	60	15	14.1
LDVT-86-30802	10	9	40	12	6.82
LDVT-86-31001	10	7	40	11	17.0
LDVT-86-31002	10	9	110	21	16.7
LDVT-86-31101	10	8	210	40	24.2
LDVT-86-31102	10	6	70	20	19.1
LDVT-86-31201	10	6	70	15	13.1
LDVT-86-31202	10	15	130	24	14.6
LDVT-86-31401	20	6	50	13	13.2
LDVT-86-31402	10	5	50	12	13.9
LDVT-86-31501	10	6	50	15	12.3
LDVT-86-31701	10	5	60	15	9.83
LDVT-86-31702	10	6	40	13	15.1
LDVT-86-31801	10	6	50	14	13.1
LDVT-86-31802	10	5	40	13	15.7



19-NOV-86

REPORT 30084

REF.FILE 25520-X5 PAGE 9 OF 9

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT-86-50001	<10	7	80	21	20.1
LDVT-86-50002	10	7	20	10	10.9
LDVT-86-50101	<10	11	50	14	22.9
LDVT-86-50102	<10	6	40	11	17.0
LDVT-86-50103	<10	7	40	10	17.5
LDVT-86-50104	<10	<4	30	6	15.3
LDVT-86-50201	<10	<4	10	2	12.0
LDVT-86-50202	10	6	30	9	6.26
LDVT-86-50203	10	<4	20	6	4.87
LDVT-86-50301	<10	6	50	14	16.8
LDVT-86-50401	<10	6	20	5	12.3
LDVT-86-50701	10	11	40	15	6.83
LDVT-86-50801	10	98	20	8	12.6
LDVT-86-50802	10	91	40	13	11.5
LDVT-86-50803	<10	16	30	12	19.7
LDVT-86-50804	<10	31	40	15	19.6
LDVT-86-50901	10	8	20	8	13.1
LDVT-86-50902	<10	20	40	14	18.2
LDVT-86-50903	<10	9	30	11	17.5
LDVT-86-50904	<10	4	10	4	15.9
LDVT-86-51001	<10	7	20	7	27.1
LDVT-86-51002	<10	8	20	7	25.6
LDVT-86-51003	<10	11	60	14	18.2
LDVT-86-51101	10	6	50	14	11.7
LDVT-86-51102	10	5	40	13	13.0
LDVT-86-51103	10	4	40	13	12.2
LDVT-86-51104	10	5	30	10	9.50
LDVT-86-51105	10	5	30	11	13.7
LDVT-86-51106	<10	6	20	8	32.5
LDVT-86-51107	<10	6	30	13	30.0
LDVT-86-51108	<10	7	30	15	17.3
LDVT-86-51109	<10	6	30	12	31.1
LDVT-86-51110	<10	10	50	14	19.5
LDVT-86-51111	<10	5	30	13	23.3
LDVT-86-51201	10	6	40	15	13.4
LDVT-86-51202	10	5	40	13	13.5
LDVT-86-51301	10	10	20	9	4.16
LDVT-86-51401	<10	8	10	4	7.30
LDVT-86-51402	<10	47	10	5	8.64
LDVT-86-51403	<10	47	<10	<2	64.9
LDVT-86-51404	10	22	10	2	9.44
LDVT-86-51405	<10	9	<10	2	22.3
LDVT-86-51501	10	<4	20	8	14.9
LDVT-86-51601	10	7	30	13	10.3



CERTIFICATE OF ANALYSIS

TO: ESSO MINERALS CANADA
ATTN: MARCEL DUROCHER
153A PERREAULT AVENUE
VAL D'OR, QUEBEC
J9P 2H1

CUSTOMER NO. 213

DATE SUBMITTED
6-FEB-87

REPORT 31081

REF. FILE 26730-X5

40 HEAVY MINERALS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
SC PPM	NA	10.000
CR PPM	NA	500.000
FE %	NA	5.000
CO PPM	NA	100.000
AS PPM	NA	1.000
MO PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	300.000
LA PPM	NA	10.000
TA PPM	NA	10.000
W PPM	NA	4.000
TH PPM	NA	10.000
U PPM	NA	2.000
WEIGHT GM		0.010

DATE 23-FEB-87

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY 



23-FEB-87 REPORT 31081 REF.FILE 26730-X5 PAGE 1 OF 3

SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
LDVT-593-01 ▽	66 ▽	40	<500	15	<100
LDVT-593-02 ▽	140 ▽	50	<500	14	<100
LDVT-593-03 ▽	51	70	500	22	100
LDVT-593-04 ▽	160	60	600	24	100
LDVT-593-05 ▽	150	50	<500	13	<100
LDVT-593-06 ▽	<6	50	<500	13	<100
LDVT-593-07 ▽	61	60	500	18	100
LDVT-593-08 ▽	32	40	<500	14	100
LDVT-594-01 ▽	69	70	500	22	100
LDVT-594-02 ▽	200	70	500	25	100
LDVT-594-03 ▽	62	50	<500	15	<100
LDVT-594-04 ▽	35	50	<500	16	<100
LDVT-594-05 ▽	140	50	<500	15	<100
LDVT-595-01 ▽	84	50	<500	14	<100
LDVT-595-02 ▽	61	60	500	14	<100
LDVT-598-01 ▽	110	50	<500	15	<100
LDVT-598-02 ▽	340	60	<500	21	100
LDVT-598-03 ▽	38	50	500	19	100
LDVT-598-04 ▽	67	50	<500	13	<100
LDVT-598-05 ▽	21	50	<500	15	<100
LDVT-598-06 ▽	110	50	<500	15	<100
LDVT-599-01 ▽	61	70	700	24	<100
LDVT-599-02 ▽	230	60	500	22	<100
LDVT-599-03 ▽	11	60	500	19	<100
LDVT-599-04 ▽	37	50	<500	17	<100
LDVT-600-A-01 ▽	7	60	<500	19	<100
LDVT-601-01 ▽	49	50	<500	12	100
LDVT-603-01 ▽	94	40	<500	16	100
LDVT-605-01 ▽	310	30	<500	22	200
LDVT-606-01 ▽	34	40	<500	12	<100
LDVT-606-02 ▽	140	60	500	21	100
LDVT-606-03 ▽	76	50	<500	16	100
LDVT-606-04 ▽	410	60	500	21	100
LDVT-606-05 ▽	140	50	<500	17	100
LDVT-606-06 ▽	370	50	<500	24	200
LDVT-606-07 ▽	250	50	<500	17	100
LDVT-613-01 ▽	29	40	<500	19	100
LDVT-616-01 ▽	130	70	600	17	<100
LDVT-616-02 ▽	330	40	<500	22	200
LDVT-617-01 ▽	90	50	<500	11	<100



23-FEB-87 REPORT 31081 REF.FILE 26730-X5 PAGE 2 OF 3

SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT-593-01	45	<5	0.4	400	210
LDVT-593-02	37	<5	0.4	500	240
LDVT-593-03	55	<5	0.6	<300	260
LDVT-593-04	52	<5	0.7	300	230
LDVT-593-05	34	<5	0.3	<300	180
LDVT-593-06	21	<5	0.3	300	170
LDVT-593-07	55	<5	0.6	400	170
LDVT-593-08	42	<5	0.6	<300	80
LDVT-594-01	47	<5	0.7	500	240
LDVT-594-02	57	<5	0.9	600	270
LDVT-594-03	38	<5	0.3	400	180
LDVT-594-04	37	<5	0.4	<300	180
LDVT-594-05	120	<5	4.7	600	190
LDVT-595-01	2	<5	0.3	<300	180
LDVT-595-02	12	<5	0.7	<300	210
LDVT-598-01	44	<5	0.3	300	180
LDVT-598-02	68	<5	0.7	400	220
LDVT-598-03	48	<5	0.6	<300	180
LDVT-598-04	31	<5	0.3	<300	170
LDVT-598-05	33	<5	0.3	300	180
LDVT-598-06	51	<5	0.4	<300	180
LDVT-599-01	8	<5	0.5	<300	250
LDVT-599-02	4	<5	0.5	<300	250
LDVT-599-03	6	<5	0.4	<300	230
LDVT-599-04	82	<5	<0.2	<300	220
LDVT-600-A-01	25	<5	0.7	<300	220
LDVT-601-01	57	<5	1.3	<300	160
LDVT-603-01	200	<5	0.8	<300	130
LDVT-605-01	350	<5	2.7	<300	100
LDVT-606-01	11	<5	0.3	300	160
LDVT-606-02	32	<5	0.5	300	230
LDVT-606-03	62	<5	0.4	300	170
LDVT-606-04	85	<5	0.8	<300	190
LDVT-606-05	100	<5	0.7	<300	170
LDVT-606-06	91	<5	0.7	<300	160
LDVT-606-07	65	<5	0.7	400	180
LDVT-613-01	63	<5	1.2	<300	120
LDVT-616-01	36	<5	1.2	600	310
LDVT-616-02	570	<5	4.8	<300	210
LDVT-617-01	11	<5	0.4	<300	210



23-FEB-87 REPORT 31081 REF.FILE 26730-X5 PAGE 3 OF 3

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT-593-01	10	6	30	9	13.1
LDVT-593-02	10	5	30	9	10.0
LDVT-593-03	20	6	50	13	17.6
LDVT-593-04	10	7	40	11	16.5
LDVT-593-05	10	<4	20	6	16.9
LDVT-593-06	10	5	20	6	11.0
LDVT-593-07	20	4	20	8	20.6
LDVT-593-08	10	11	10	4	34.1
LDVT-594-01	10	6	40	11	16.6
LDVT-594-02	20	6	40	12	17.7
LDVT-594-03	10	5	30	8	14.8
LDVT-594-04	10	5	20	7	14.7
LDVT-594-05	10	<4	20	7	8.82
LDVT-595-01	10	5	20	8	15.5
LDVT-595-02	10	4	30	9	11.8
LDVT-598-01	<10	4	20	6	17.1
LDVT-598-02	10	4	30	10	17.6
LDVT-598-03	10	5	40	9	16.7
LDVT-598-04	10	4	20	7	13.7
LDVT-598-05	10	4	20	7	12.6
LDVT-598-06	<10	4	20	8	17.6
LDVT-599-01	10	5	50	12	18.3
LDVT-599-02	20	5	60	12	18.3
LDVT-599-03	20	5	40	11	24.5
LDVT-599-04	10	5	30	8	13.4
LDVT-600-A-01	10	5	30	8	15.7
LDVT-601-01	10	18	20	10	8.65
LDVT-603-01	10	7	20	4	13.2
LDVT-605-01	10	6	20	5	23.7
LDVT-606-01	10	4	30	8	22.3
LDVT-606-02	10	6	30	8	20.0
LDVT-606-03	10	5	20	6	16.0
LDVT-606-04	10	6	30	8	17.8
LDVT-606-05	10	6	30	8	24.0
LDVT-606-06	10	5	20	7	21.3
LDVT-606-07	10	5	20	7	12.4
LDVT-613-01	<10	<4	20	4	14.6
LDVT-616-01	10	6	40	12	4.03
LDVT-616-02	10	4	20	6	5.33
LDVT-617-01	10	4	30	10	10.6



LDV

CERTIFICATE OF ANALYSIS

TO: ESSO MINERALS CANADA
ATTN: MARCEL DUROCHER
153A PERREAULT AVENUE
VAL D'OR, QUEBEC
J9P 2H1

CUSTOMER NO. 213

DATE SUBMITTED
13-FEB-87

REPORT 31166

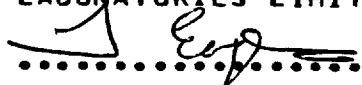
REF. FILE 26813-X5

40 HEAVY MINERALS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
SC PPM	NA	10.000
CR PPM	NA	500.000
FE %	NA	5.000
CO PPM	NA	100.000
AS PPM	NA	1.000
MO PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	300.000
LA PPM	NA	10.000
TA PPM	NA	10.000
W PPM	NA	4.000
TH PPM	NA	10.000
U PPM	NA	2.000
WEIGHT GM		0.010

DATE 03-MAR-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 

03-MAR-87

REPORT 31166

REF.FILE 26813-X5 PAGE 1 OF 3

SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
LDVT-597-14 ▽	98	60	<500	18	100
LDVT-626-08 ▽	270	80	500	18	<100
LDVT-626-09 ▽	290	60	<500	21	100
LDVT-661-01 ▽	98	140	900	28	100
LDVT-661-02 ▽	160	160	1300	33	200
LDVT-662-01 ▽	58	80	500	16	<100
LDVT-663-01 ▽	240	160	1400	31	<100
LDVT-665-01 ▽	210	160	1300	31	100
LDVT-666-01 ▽	390	20	<500	24	200
LDVT-667-01 ▽	110	100	500	22	<100
LDVT-668-01 ▽	780	70	<500	16	<100
LDVT-670-01 ▽	16	80	<500	15	<100
LDVT-671-01 ▽	<8	50	<500	12	<100
LDVT-673-01 ▽	51	170	1000	26	<100
LDVT-673-02 ▽	67	180	1200	26	<100
LDVT-674-01 ▽	41	150	1200	27	<100
LDVT-674-02 ▽	63	150	900	26	100
LDVT-674-03 ▽	95	160	700	30	200
LDVT-675-01 ▽	34	60	<500	12	<100
LDVT-675-02 ▽	200	190	1600	37	100
LDVT-675-03 ▽	52	200	1400	36	100
LDVT-675-04 ▽	220	120	800	28	300
LDVT-676-01 ▽	780	130	1000	21	<100
LDVT-676-02 ▽	110	60	<500	14	<100
LDVT-676-03 ▽	20	50	<500	10	<100
LDVT-676-04 ▽	45	130	900	24	100
LDVT-676-05 ▽	87	130	800	24	100
LDVT-676-06 ▽	23	50	<500	8	<100
LDVT-678-01 ▽	55	50	<500	12	<100
LDVT-678-02 ▽	190	50	<500	13	<100
LDVT-678-03 ▽	220	120	1000	26	100
LDVT-678-04 ▽	38	130	800	21	100
LDVT-678-05 ▽	440	130	900	23	100
LDVT-678-06 ▽	130	120	700	19	<100
LDVT-679-01 ▽	100	120	900	21	100
LDVT-679-02 ▽	110	150	1100	33	100
LDVT-679-03 ▽	580	140	900	29	100
LDVT-679-04 ▽	52	80	600	22	100
LDVT-679-05 ▽	25	100	800	18	100
LDVT-679-06 ▽	140	100	500	16	100

SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT-597-14	3200	<9	<1.5	1400	160
LDVT-626-08	40	<5	0.3	300	260
LDVT-626-09	240	<5	1.2	<300	180
LDVT-661-01	72	<5	0.5	300	360
LDVT-661-02	190	<5	0.4	400	430
LDVT-662-01	880	<5	<0.5	<500	270
LDVT-663-01	28	<5	0.4	500	470
LDVT-665-01	450	<7	<0.4	<400	420
LDVT-666-01	3000	<5	2.2	<800	50
LDVT-667-01	74	<5	0.4	<500	340
LDVT-668-01	68	<5	0.4	600	200
LDVT-670-01	12	<5	0.5	<400	200
LDVT-671-01	91	<5	1.6	500	170
LDVT-673-01	6	<5	0.4	300	400
LDVT-673-02	14	<7	0.7	500	410
LDVT-674-01	36	<5	0.6	400	370
LDVT-674-02	53	<5	0.4	300	300
LDVT-674-03	150	<7	1.1	400	280
LDVT-675-01	19	<5	0.4	300	190
LDVT-675-02	66	<5	0.9	<300	400
LDVT-675-03	50	<5	0.4	400	410
LDVT-675-04	270	<6	0.9	<300	250
LDVT-676-01	22	<5	0.5	300	340
LDVT-676-02	32	<5	0.2	400	170
LDVT-676-03	19	<5	0.2	<300	130
LDVT-676-04	60	<6	0.7	500	250
LDVT-676-05	69	<6	0.6	400	260
LDVT-676-06	21	<5	0.3	500	110
LDVT-678-01	30	<5	0.5	400	160
LDVT-678-02	28	<5	0.3	400	140
LDVT-678-03	51	<5	0.4	<300	270
LDVT-678-04	70	<5	0.5	300	260
LDVT-678-05	42	<5	0.8	<300	260
LDVT-678-06	18	<5	0.7	<300	240
LDVT-679-01	38	<5	0.3	<300	290
LDVT-679-02	66	<6	0.5	600	390
LDVT-679-03	43	<5	0.3	300	300
LDVT-679-04	47	<5	0.3	<300	180
LDVT-679-05	39	<5	0.6	<300	200
LDVT-679-06	35	<5	0.6	<300	190

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT-597-14	<10	4	20	4	15.1
LDVT-626-08	<10	<4	20	7	13.1
LDVT-626-09	10	4	10	5	15.8
LDVT-661-01	<10	4	40	11	29.2
LDVT-661-02	<10	7	50	17	19.3
LDVT-662-01	<10	4	20	6	13.5
LDVT-663-01	<10	7	70	18	25.8
LDVT-665-01	<10	6	40	14	23.3
LDVT-666-01	<10	6	10	2	1.37
LDVT-667-01	10	6	40	9	6.46
LDVT-668-01	10	5	30	8	10.3
LDVT-670-01	10	45	20	6	5.54
LDVT-671-01	10	15	20	10	1.18
LDVT-673-01	<10	6	40	13	22.1
LDVT-673-02	<10	5	30	12	15.5
LDVT-674-01	<10	7	30	11	21.9
LDVT-674-02	<10	5	20	8	25.3
LDVT-674-03	<10	7	20	9	18.6
LDVT-675-01	10	5	20	7	14.8
LDVT-675-02	<10	5	30	9	23.2
LDVT-675-03	<10	6	30	9	23.8
LDVT-675-04	<10	6	30	8	26.0
LDVT-676-01	<10	6	30	11	19.2
LDVT-676-02	<10	4	20	7	16.2
LDVT-676-03	10	<4	10	5	16.5
LDVT-676-04	<10	5	20	10	20.6
LDVT-676-05	<10	5	20	8	19.7
LDVT-676-06	<10	<4	10	4	13.5
LDVT-678-01	10	<4	20	7	14.1
LDVT-678-02	10	4	20	6	16.2
LDVT-678-03	<10	12	30	10	31.4
LDVT-678-04	<10	6	20	8	25.6
LDVT-678-05	<10	8	30	9	26.1
LDVT-678-06	<10	11	20	8	23.5
LDVT-679-01	<10	8	30	10	31.9
LDVT-679-02	<10	6	30	11	24.9
LDVT-679-03	<10	4	30	8	35.9
LDVT-679-04	<10	4	20	8	38.7
LDVT-679-05	<10	7	30	10	26.5
LDVT-679-06	<10	<4	20	9	23.9

LDV

CERTIFICATE OF ANALYSIS

DATE SUBMITTED
10-FEB-87

REF. FILE 26779-X5

WERE ANALYSED AS FOLLOWS:

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY *H. J. [Signature]*

CERTIFIED BY [Signature]



27-FEB-87 REPORT 31149 REF.FILE 26779-X5 PAGE 1 OF 3

SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
LDVT-592-01 ▴	68	60	<500	14	<100
LDVT-592-02 ▴	15	50	<500	16	<100
LDVT-592-03 ▴	15	60	<500	13	<100
LDVT-592-04 ▴	34	80	800	22	<100
LDVT-592-A-05 ▴	120	70	600	19	100
LDVT-592-A-06 ▴	110	70	700	19	100
LDVT-592-A-07 ▴	35	70	600	17	100
LDVT-592-A-08 ▴	250	50	<500	17	100
LDVT-597-01 ▴	160	80	800	17	<100
LDVT-597-02 ▴	74	90	700	19	<100
LDVT-597-03 ▴	20	80	600	15	<100
LDVT-597-04 ▴	190	60	500	17	100
LDVT-597-05 ▴	56	50	<500	18	100
LDVT-597-06 ▴	54	70	700	21	100
LDVT-597-07 ▴	190	60	600	17	100
LDVT-597-08 ▴	1500	60	600	20	100
LDVT-597-09 ▴	120	40	500	17	100
LDVT-597-10 ▴	340	50	<500	16	100
LDVT-597-11 ▴	290	60	<500	19	100
LDVT-597-12 ▴	250	70	700	22	200
LDVT-597-13 ▴	150	60	700	20	200
LDVT-617-02 ▴	130	90	600	20	<100
LDVT-617-03 ▴	46	60	<500	16	<100
LDVT-618-01 ▴	390	60	500	16	<100
LDVT-624-01 ▴	75	70	500	15	<100
LDVT-625-01 ▴	1100	50	<500	13	100
LDVT-626-01 ▴	250	70	600	15	<100
LDVT-626-02 ▴	26	60	<500	16	<100
LDVT-626-03 ▴	28	60	600	17	<100
LDVT-626-04 ▴	140	70	<500	19	<100
LDVT-626-05 ▴	140	80	<500	20	100
LDVT-626-06 ▴	130	80	600	19	100
LDVT-626-07 ▴	120	80	500	25	200
LDVT-630-01 ▴	120	80	800	20	<100
LDVT-631-01 ▴	<8	80	600	17	<100
LDVT-643-01 ▴	130	80	800	21	100
LDVT-645-01 ▴	64	50	900	21	200

AL

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT-592-01	10	5	30	9	14.7
LDVT-592-02	10	5	30	9	17.0
LDVT-592-03	10	<4	30	9	15.8
LDVT-592-04	10	7	40	13	2.54
LDVT-592-A-05	<10	6	50	16	27.8
LDVT-592-A-06	<10	6	50	13	33.5
LDVT-592-A-07	<10	6	40	12	35.1
LDVT-592-A-08	10	4	30	8	33.9
LDVT-597-01	<10	6	40	14	23.2
LDVT-597-02	<10	6	50	15	20.7
LDVT-597-03	10	6	60	17	19.3
LDVT-597-04	<10	7	50	15	24.0
LDVT-597-05	10	7	40	11	14.3
LDVT-597-06	<10	5	50	14	26.0
LDVT-597-07	<10	5	30	10	26.0
LDVT-597-08	<10	7	30	9	30.1
LDVT-597-09	10	5	30	6	14.6
LDVT-597-10	10	8	20	6	14.0
LDVT-597-11	<10	7	30	9	16.7
LDVT-597-12	<10	14	40	10	17.4
LDVT-597-13	<10	6	30	8	17.4
LDVT-617-02	<10	8	50	18	17.5
LDVT-617-03	10	5	30	11	16.3
LDVT-618-01	10	6	30	12	3.96
LDVT-624-01	<10	7	50	15	22.5
LDVT-625-01	10	16	30	9	13.8
LDVT-626-01	10	11	40	15	4.58
LDVT-626-02	10	6	40	13	8.50
LDVT-626-03	20	8	50	15	5.67
LDVT-626-04	20	8	50	16	3.94
LDVT-626-05	10	7	40	16	8.00
LDVT-626-06	<10	6	60	20	17.2
LDVT-626-07	<10	7	40	13	17.6
LDVT-630-01	<10	6	40	13	15.6
LDVT-631-01	<10	7	60	19	21.1
LDVT-643-01	10	9	60	16	20.2
LDVT-645-01	<10	9	30	7	2.33

X-RAY ANALYSIS LABORATORIES

DATE 02-11-87

AL

FEB-87

REPORT 31149

REF. FILE 26779-X5 PAGE 2 OF 3

SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT-592-01	7	<5	0.3	300	210
LDVT-592-02	29	<5	0.5	500	220
LDVT-592-03	41	<5	0.7	<300	210
LDVT-592-04	56	<5	1.1	1300	330
LDVT-592-A-05	57	<5	0.5	300	270
LDVT-592-A-06	54	<5	0.9	<300	250
LDVT-592-A-07	54	<5	0.5	300	230
LDVT-592-A-08	78	<5	0.9	<300	190
LDVT-597-01	7	<5	0.5	400	230
LDVT-597-02	5	<5	0.6	400	280
LDVT-597-03	4	<5	0.4	400	290
LDVT-597-04	53	<5	0.6	<300	230
LDVT-597-05	89	<5	0.4	300	260
LDVT-597-06	67	<5	0.7	400	270
LDVT-597-07	77	<5	0.9	<300	190
LDVT-597-08	180	<5	2.0	300	190
LDVT-597-09	150	<5	1.6	400	210
LDVT-597-10	110	<5	1.1	400	150
LDVT-597-11	140	<5	2.0	500	190
LDVT-597-12	190	<5	1.6	<400	210
LDVT-597-13	130	<5	1.4	<300	180
LDVT-617-02	21	<5	0.5	<300	320
LDVT-617-03	64	<5	0.6	<300	220
LDVT-618-01	35	<5	0.7	1000	270
LDVT-624-01	51	<5	1.0	500	230
LDVT-625-01	100	<5	2.2	600	230
LDVT-626-01	26	<5	1.1	700	300
LDVT-626-02	24	<5	0.5	300	280
LDVT-626-03	43	<5	0.7	1000	300
LDVT-626-04	46	<5	1.0	<300	310
LDVT-626-05	52	<5	0.8	<300	350
LDVT-626-06	56	<5	0.6	500	340
LDVT-626-07	130	<5	1.3	500	250
LDVT-630-01	48	<5	0.7	500	270
LDVT-631-01	11	<5	0.4	300	300
LDVT-643-01	23	<5	0.8	<300	290
LDVT-645-01	370	<5	2.3	<800	160

CERTIFICATE OF ANALYSIS

TO: ESSO MINERALS CANADA
ATTN: MARCEL DUROCHER
153A PERREAULT AVENUE
VAL D'OR, QUEBEC
J9P 2H1

CUSTOMER NO. 213

DATE SUBMITTED
17-FEB-87

REPORT 31270

REF. FILE 26883-X5

40 HEAVY MINERALS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
SC PPM	NA	10.000
CR PPM	NA	500.000
FE %	NA	5.000
CO PPM	NA	100.000
AS PPM	NA	1.000
MO PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	300.000
LA PPM	NA	10.000
TA PPM	NA	10.000
W PPM	NA	4.000
TH PPM	NA	10.000
U PPM	NA	2.000
WEIGHT GM		0.010

DATE 09-MAR-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 



09-MAR-87 REPORT 31270 REF.FILE 26883-X5 PAGE 1 OF 3

	SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
	-----	-----	-----	-----	-----	-----
	LDVT 679-01	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
	LDVT 679-07	400	160	1300	28	100
	LDVT 679-08	130	90	900	34	200
	LDVT 679-09	150	120	1000	34	100
	LDVT 680-01	120	160	1100	30	100
	LDVT 680-02	450	130	1400	31	100
	LDVT 680-03	1200	130	1600	33	300
	LDVT 680-04	110	140	1200	32	200
	LDVT 680-05	1100	130	900	31	100
	LDVT 680-06	110	120	1100	29	100
	LDVT 680-07	170	160	1200	42	200
	LDVT 680-08	210	140	1100	45	200
	LDVT 681-01	400	130	1000	30	100
	LDVT 681-02	130	130	1100	26	100
	LDVT 681-03	98	130	1000	30	100
	LDVT 681-04	120	130	900	23	<100
	LDVT 681-05	59	140	900	25	100
	LDVT 681-06	160	130	1000	27	100
	LDVT 681-07	15	40	<500	10	<100
	LDVT 681-08	220	120	600	28	200
	LDVT 681-09	360	130	900	31	100
	LDVT 681-10	16	40	<500	10	<100
	LDVT 681-11	34	40	<500	10	<100
	LDVT 681-12	62	30	<500	12	<100
	LDVT 681-13	40	50	<500	13	<100
	LDVT 721-01	130	150	900	26	<100
	LDVT 722-01	25	40	<500	12	<100
	LDVT 722-02	87	160	1300	33	<100
	LDVT 723-01	150	170	1700	36	100
	LDVT 724-01	21	50	500	19	<100
	LDVT 725-01	53	70	500	12	<100
	LDVT 725-02	40	60	<500	11	<100
	LDVT 725-03	98	50	<500	13	100
	LDVT 725-04	75	70	<500	12	100
	LDVT 733-01	64	30	<500	8	<100
	LDVT 733-02	54	60	600	16	<100
	LDVT 735-01	160	70	700	14	<100
	LDVT 735-02	22	60	500	15	<100
	LDVT 735-03	40	70	500	14	<100
	LDVT 736-01	100	30	<500	10	<100
	LDVT 736-02	170	110	<500	17	100

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT 679-01	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
LDVT 679-07	30	<5	<u>1.8</u>	500	310
LDVT 679-08	260	<5	<u>2.6</u>	<300	250
LDVT 679-09	210	<7	<u>2.1</u>	<400	280
LDVT 680-01	45	<5	<u>0.6</u>	<300	370
LDVT 680-02	31	<5	0.3	400	310
LDVT 680-03	230	<7	0.3	<300	330
LDVT 680-04	100	<7	0.6	<300	340
LDVT 680-05	110	<5	0.7	300	210
LDVT 680-06	190	<5	<u>1.1</u>	<300	240
LDVT 680-07	180	<7	<u>1.5</u>	<300	310
LDVT 680-08	200	<6	<u>1.7</u>	<300	250
LDVT 681-01	67	<5	0.6	300	270
LDVT 681-02	35	<5	0.3	400	310
LDVT 681-03	47	<5	0.3	400	310
LDVT 681-04	29	<5	0.5	400	280
LDVT 681-05	39	<5	0.7	<300	250
LDVT 681-06	49	<5	0.5	<300	270
LDVT 681-07	26	<5	0.2	<300	130
LDVT 681-08	110	<5	0.9	<300	230
LDVT 681-09	110	7	<u>1.2</u>	300	280
LDVT 681-10	42	<5	<u>0.5</u>	<300	120
LDVT 681-11	45	<5	0.6	400	130
LDVT 681-12	100	<5	<u>1.2</u>	<300	110
LDVT 681-13	61	<5	0.7	500	160
LDVT 721-01	140	<5	0.3	400	350
LDVT 722-01	8	<5	0.3	<300	160
LDVT 722-02	20	<5	0.4	400	350
LDVT 723-01	130	<5	<u>2.3</u>	<300	370
LDVT 724-01	53	<5	0.3	<400	180
LDVT 725-01	3	<5	0.2	<300	160
LDVT 725-02	42	<5	0.4	<300	130
LDVT 725-03	80	<5	0.6	<300	130
LDVT 725-04	110	<5	0.5	<300	130
LDVT 733-01	16	<5	<0.2	<300	130
LDVT 733-02	28	<5	0.3	<300	160
LDVT 735-01	10	<5	0.4	400	160
LDVT 735-02	9	<5	0.2	<300	140
LDVT 735-03	28	<5	0.4	<300	110
LDVT 736-01	3	<5	0.3	<300	120
LDVT 736-02	23	<5	0.4	<400	20

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



09-MAR-87 REPORT 31270 REF.FILE 26883-X5 PAGE 3 OF 3

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT 679-01	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
LDVT 679-07	<10	9	20	10	18.8
LDVT 678-08	<10	5	20	7	42.0
LDVT 679-09	<10	6	20	7	20.1
LDVT 680-01	<10	4	30	11	20.0
LDVT 680-02	<10	5	30	9	32.5
LDVT 680-03	<10	7	50	10	23.8
LDVT 680-04	<10	14	40	11	24.7
LDVT 680-05	<10	11	20	7	25.9
LDVT 680-06	<10	5	20	6	24.4
LDVT 680-07	<10	11	20	5	18.6
LDVT 680-08	<10	6	20	5	26.6
LDVT 681-01	<10	5	30	9	27.2
LDVT 681-02	<10	4	30	9	22.3
LDVT 681-03	<10	5	30	9	23.5
LDVT 681-04	<10	5	20	9	27.8
LDVT 681-05	<10	6	20	7	26.3
LDVT 681-06	<10	4	20	8	25.0
LDVT 681-07	<10	4	10	6	16.9
LDVT 681-08	<10	6	20	7	26.9
LDVT 681-09	<10	9	20	8	18.2
LDVT 681-10	10	4	10	5	15.3
LDVT 681-11	<10	4	10	6	9.50
LDVT 681-12	<10	<4	10	4	13.4
LDVT 681-13	10	5	10	7	5.51
LDVT 721-01	<10	7	30	11	24.9
LDVT 722-01	10	6	20	8	16.0
LDVT 722-02	<10	5	30	9	30.6
LDVT 723-01	<10	10	30	8	16.6
LDVT 724-01	10	10	30	7	2.66
LDVT 725-01	<10	87	30	7	33.0
LDVT 725-02	<10	<4	10	5	29.6
LDVT 725-03	<10	<4	10	5	32.2
LDVT 725-04	<10	<4	10	5	19.0
LDVT 733-01	10	5	20	6	16.6
LDVT 733-02	<10	<4	20	6	27.4
LDVT 735-01	<10	<4	20	7	17.5
LDVT 735-02	<10	<4	10	5	27.4
LDVT 735-03	<10	4	10	4	30.0
LDVT 736-01	10	4	20	7	12.1
LDVT 736-02	<10	<4	<10	<2	2.58

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



CERTIFICATE OF ANALYSIS

LDV

TO: ESSO MINERALS CANADA
ATTN: MARCEL DUROCHER
153A PERREAULT AVENUE
VAL D'OR, QUEBEC
J9P 2H1

CUSTOMER NO. 213

DATE SUBMITTED
20-FEB-87

REPORT 31344

REF. FILE 26943-X5

40 HEAVY MINERALS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
SC PPM	NA	10.000
CR PPM	NA	500.000
FE %	NA	5.000
CO PPM	NA	100.000
AS PPM	NA	1.000
MO PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	300.000
LA PPM	NA	10.000
TA PPM	NA	10.000
W PPM	NA	4.000
TH PPM	NA	10.000
U PPM	NA	2.000
WEIGHT GM		0.010

X-RAY ASSAY LABORATORIES LIMITED

DATE 13-MAR-87

CERTIFIED BY 



NOTE: DETECTION LIMITS WERE VARIABLE DUE TO THE
NATURE OF SAMPLE.

AGANAS 0223 XUAN3MM
AGANAS 21493MM 0223
YJMA3R3C A-221
SEP 421 30 2078 JED



13-MAR-87 REPORT 31344 REF.FILE 26943-X5 PAGE 1 OF 3

SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
714-01 ▢	28	160	1600	32	<100
715-01 ▢	250	130	900	35	200
715-02 ▢	530	140	900	30	200
715-03 ▢	78	140	1000	33	200
715-04 ▢	100	130	800	34	200
716-01 ▢	210	50	<500	15	<100
716-02 ▢	200	180	1600	36	<100
716-03 ▢	98	160	1300	33	100
716-04 ▢	130	130	1000	38	200
716-05 ▢	190	140	1200	39	200
716-06 ▢	390	190	1400	48	300
716-07 ▢	250	50	<500	15	100
737-01 ▢	95	50	<500	13	<100
737-02 ▢	830	180	1900	58	500
753-01 ▢	110	50	<500	17	100
754-01 ▢	57	50	<500	9	<100
754-02 ▢	140	140	800	28	100
754-03 ▢	2200	140	900	30	200
754-04 ▢	36	50	<500	16	<100
755-01 ▢	190	150	1300	33	100
755-02 ▢	2000	140	1200	39	300
755-03 ▢	77	100	800	37	200
755-04 ▢	110	110	800	33	200
755-05 ▢	74	90	600	27	100
764-01 ▢	240	150	1100	30	<100
765-01 ▢	230	140	1300	29	100
765-02 ▢	150	160	1000	37	200
765-03 ▢	230	140	1200	45	300
765-04 ▢	440	120	1000	29	200
766-01 ▢	120	120	800	26	100
766-02 ▢	440	90	700	30	300
766-03 ▢	130	100	800	30	200
767-01	91	60	<500	13	<100
767-02	670	40	<500	10	<100
767-03	59	140	800	24	<100
767-04	110	120	700	28	200
767-05	310	100	800	25	200
767A-06	200	120	1000	33	200
767A-07	84	140	1000	36	200
768-01	140	30	<500	12	100

13-MAR-87

REPORT 31344

REF.FILE 26943-X5

PAGE 2 OF 3

SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
714-01	12	<5	0.6	<300	420
715-01	92	<7	0.8	500	340
715-02	82	<5	0.5	<300	340
715-03	83	<5	0.6	<300	330
715-04	170	<5	0.8	<300	270
716-01	4	<5	0.4	300	180
716-02	14	<8	0.5	600	490
716-03	21	<7	0.3	500	380
716-04	73	<7	0.6	<400	300
716-05	78	<7	0.5	<400	310
716-06	100	<8	0.7	500	390
716-07	50	<5	0.3	<300	170
737-01	8	<5	0.3	<300	210
737-02	340	<5	1.8	700	420
753-01	120	<5	0.8	500	170
754-01	6	<5	0.3	<300	130
754-02	30	<6	0.4	<300	310
754-03	93	<7	0.5	<300	260
754-04	29	<5	1.8	300	70
755-01	70	<5	0.7	500	330
755-02	140	<6	1.0	<400	340
755-03	230	<5	2.2	600	230
755-04	260	<6	1.8	<300	240
755-05	170	<5	1.3	300	180
764-01	21	<5	0.4	300	350
765-01	77	<5	0.4	400	330
765-02	72	<5	0.9	600	280
765-03	180	<5	1.2	<400	280
765-04	160	<5	0.5	<300	210
766-01	98	<5	0.8	<300	230
766-02	340	<5	3.7	300	180
766-03	210	<5	2.3	<300	200
767-01	13	<5	0.5	400	150
767-02	5	<5	0.5	<300	110
767-03	9	<5	0.3	<300	250
767-04	100	<5	0.5	<300	230
767-05	130	<5	0.6	<300	180
767A-06	130	<5	0.5	<300	220
767A-07	120	<5	0.4	<300	280
768-01	96	<5	1.1	300	120



13-MAR-87 REPORT 31344 REF.FILE 26943-X5 PAGE 3 OF 3

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
714-01	<10	22	40	12	19.4
715-01	<10	8	40	10	21.6
715-02	10	7	30	10	28.5
715-03	<10	15	30	8	25.5
715-04	<10	23	20	6	28.9
716-01	10	12	30	8	12.9
716-02	<10	72	50	14	17.6
716-03	<10	30	30	10	21.2
716-04	<10	120	30	8	23.9
716-05	<10	91	30	8	25.0
716-06	<10	27	20	7	20.6
716-07	<10	26	20	6	4.03
737-01	10	4	30	8	15.6
737-02	<10	6	30	8	21.4
753-01	<10	6	20	4	3.31
754-01	10	7	10	5	15.2
754-02	<10	6	20	9	19.4
754-03	<10	5	20	7	17.9
754-04	<10	4	<10	3	6.68
755-01	<10	11	30	10	19.9
755-02	<10	7	30	11	20.4
755-03	<10	<4	20	5	30.4
755-04	<10	<4	20	6	29.0
755-05	<10	5	10	4	39.3
764-01	<10	6	30	10	19.3
765-01	<10	6	40	10	27.6
765-02	<10	9	10	5	27.1
765-03	<10	5	20	5	28.7
765-04	<10	5	20	6	27.0
766-01	<10	5	10	6	17.1
766-02	<10	4	10	5	32.2
766-03	<10	5	10	6	23.7
767-01	10	7	10	7	6.66
767-02	30	<4	10	6	16.9
767-03	<10	6	20	7	20.7
767-04	<10	10	20	6	20.0
767-05	<10	65	10	6	28.8
767A-06	<10	6	10	5	37.6
767A-07	<10	5	20	7	37.7
768-01	30	4	10	5	6.05



CERTIFICATE OF ANALYSIS

TC: ESSO MINERALS CANADA
ATTN: MARCEL DURCCHER
153A PERREAULT AVENUE
VAL D'OR, QUEBEC
J9P 2H1

CUSTOMER NO. 213

DATE SUBMITTED
24-FEB-87

REPORT 31427

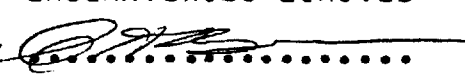
REF. FILE 26981-X5

38 HEAVY MINERALS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU PPB	NA	5.000
SC PPM	NA	10.000
CR PPM	NA	500.000
FE %	NA	5.000
CO PPM	NA	100.000
AS PPM	NA	1.000
MO PPM	NA	5.000
SB PPM	NA	0.200
BA PPM	NA	300.000
LA PPM	NA	10.000
TA PPM	NA	10.000
W PPM	NA	4.000
TH PPM	NA	10.000
U PPM	NA	2.000
WEIGHT GM		0.010

DATE 20-MAR-87

X-RAY ASSAY LABORATORIES LIMITED
CERTIFIED BY 



NOTE: DETECTION LIMITS WERE VARIABLE DUE TO THE
NATURE OF SAMPLE.

OK $\triangle$

20-MAR-87 REPORT 31427 REF.FILE 26981-X5 PAGE 1 OF 3

SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
LDVT-87-727-01	170	160	1400	33	<100
LDVT-87-728-02	150	120	1100	32	200
LDVT-87-728-03	14000	110	1000	29	200
LDVT-87-728-04	270	140	1000	32	100
LDVT-87-738-01	76	150	1100	25	<100
LDVT-87-738-02	160	130	900	23	100
LDVT-87-738-03	160	140	700	27	100
LDVT-87-738-04	150	50	<500	10	100
LDVT-87-738-05	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
LDVT-87-739-01	170	160	1100	29	<100
LDVT-87-739-02	520	130	1100	30	100
LDVT-87-739-03	120	220	1900	44	200
LDVT-87-739-04	100	200	1500	43	200
LDVT-87-739-05	210	170	800	35	200
LDVT-87-757-01	57	50	<500	13	<100
LDVT-87-757-02	190	160	1100	30	<100
LDVT-87-757-03	26	150	1000	28	<100
LDVT-87-757-04	69	150	1100	31	100
LDVT-87-757-05	100	160	800	29	300
LDVT-87-758-01	250	150	1200	37	200
LDVT-87-758-02	120	150	900	35	200
LDVT-87-758-03	110	140	1000	29	200
LDVT-87-758-04	270	150	1000	34	300
LDVT-87-758-05	980	210	1300	48	300
LDVT-87-759-01	95	210	1800	45	200
LDVT-87-759-02	210	150	1000	38	200
LDVT-87-759-03	160	160	1500	41	200
LDVT-87-759-04	73	160	1200	39	200
LDVT-87-759-05	59	160	700	31	100
LDVT-87-759-06	89	170	800	28	100
LDVT-87-759-07	52	170	900	27	100
LDVT-87-763-01	110	190	1000	34	100
LDVT-87-763-02	400	160	1200	40	200
LDVT-87-763-03	69	160	1100	37	200
LDVT-87-763-04	150	210	1300	37	100
LDVT-87-763-05	60	230	1400	39	100
LDVT-87-764-02	110	60	500	16	100
LDVT-87-764-03	66	70	600	20	100
LDVT-87-764-04	45	60	<500	15	100

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



20-MAR-87 REPORT 31427 REF.FILE 26981-X5 PAGE 2 OF 3

SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT-87-727-01	5	<6	0.2	<300	340
LDVT-87-728-02	77	<5	0.6	<300	310
LDVT-87-728-03	65	<6	0.4	<400	280
LDVT-87-728-04	61	<6	<0.2	<300	310
LDVT-87-738-01	7	<6	0.4	<400	340
LDVT-87-738-02	22	<5	0.3	<300	240
LDVT-87-738-03	67	<6	0.5	<300	230
LDVT-87-738-04	100	<5	0.8	<300	140
LDVT-87-738-05	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
LDVT-87-739-01	180	<5	<0.3	500	370
LDVT-87-739-02	56	<6	0.6	<300	350
LDVT-87-739-03	79	<9	0.8	<400	570
LDVT-87-739-04	56	<5	0.6	<400	420
LDVT-87-739-05	71	<7	0.5	<400	310
LDVT-87-757-01	38	<5	3.4	<300	190
LDVT-87-757-02	12	<6	0.3	<300	400
LDVT-87-757-03	21	<5	0.2	<300	400
LDVT-87-757-04	59	<5	0.7	<400	360
LDVT-87-757-05	190	<5	0.3	<300	300
LDVT-87-758-01	72	<5	0.6	<300	400
LDVT-87-758-02	78	<5	0.5	<300	340
LDVT-87-758-03	56	<5	0.5	<300	300
LDVT-87-758-04	110	<6	0.8	<400	260
LDVT-87-758-05	140	<8	1.0	<300	370
LDVT-87-759-01	80	<8	1.0	<400	480
LDVT-87-759-02	90	<5	0.7	300	390
LDVT-87-759-03	81	<5	0.6	<400	430
LDVT-87-759-04	110	<5	0.5	400	380
LDVT-87-759-05	70	<5	0.5	<300	320
LDVT-87-759-06	50	<5	0.4	<300	300
LDVT-87-759-07	110	<5	0.6	400	290
LDVT-87-763-01	53	<5	0.6	<400	450
LDVT-87-763-02	100	<7	0.5	<300	430
LDVT-87-763-03	71	<5	0.6	<300	380
LDVT-87-763-04	47	<5	0.6	<300	380
LDVT-87-763-05	54	<5	0.6	300	440
LDVT-87-764-02	45	<5	0.2	400	210
LDVT-87-764-03	54	<6	0.7	500	250
LDVT-87-764-04	63	<5	0.5	<300	170

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL



20-MAR-87 REPORT 31427 REF.FILE 26981-X5 PAGE 3 OF 3

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT-87-727-01	<10	9	30	10	27.6
LDVT-87-728-02	<10	10	30	8	39.1
LDVT-87-728-03	<10	8	30	7	44.7
LDVT-87-728-04	<10	7	20	8	24.1
LDVT-87-738-01	<10	7	30	8	25.1
LDVT-87-738-02	<10	<4	20	6	34.6
LDVT-87-738-03	<10	6	10	5	28.4
LDVT-87-738-04	<10	7	10	5	10.4
LDVT-87-738-05	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
LDVT-87-739-01	<10	6	30	10	27.5
LDVT-87-739-02	<10	7	30	9	33.2
LDVT-87-739-03	<10	31	40	12	20.7
LDVT-87-739-04	<10	66	30	7	30.6
LDVT-87-739-05	<10	19	30	8	21.8
LDVT-87-757-01	10	12	40	12	15.3
LDVT-87-757-02	<10	6	40	11	22.6
LDVT-87-757-03	<10	9	40	12	26.5
LDVT-87-757-04	<10	6	30	10	27.1
LDVT-87-757-05	<10	5	20	8	23.2
LDVT-87-758-01	<10	11	50	11	24.6
LDVT-87-758-02	<10	5	30	9	25.6
LDVT-87-758-03	<10	5	20	8	24.9
LDVT-87-758-04	<10	5	20	8	22.3
LDVT-87-758-05	<10	6	20	8	20.6
LDVT-87-759-01	<10	21	30	9	17.9
LDVT-87-759-02	<10	6	40	10	24.0
LDVT-87-759-03	<10	7	40	12	20.2
LDVT-87-759-04	<10	5	30	11	23.9
LDVT-87-759-05	<10	110	20	9	30.0
LDVT-87-759-06	<10	11	20	8	28.1
LDVT-87-759-07	<10	8	20	8	24.1
LDVT-87-763-01	<10	5	40	12	23.3
LDVT-87-763-02	<10	6	40	12	23.3
LDVT-87-763-03	<10	6	40	10	23.4
LDVT-87-763-04	<10	5	20	7	32.6
LDVT-87-763-05	<10	5	20	8	25.8
LDVT-87-764-02	<10	6	30	11	19.3
LDVT-87-764-03	<10	<4	40	15	19.8
LDVT-87-764-04	<10	5	30	11	33.5

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL





SAMPLE	AU PPB	SC PPM	CR PPM	FE %	CO PPM
LDVT-714-02	35	50	<500	16	100
LDVT-714-03	430	50	<500	14	100
LDVT-727-02	250	50	<500	14	100
LDVT-727-03	170	50	<500	13	100
LDVT-728-01	570	60	<500	17	100
LDVT-728-05	2400	90	500	20	200
LDVT-729-01	240	60	600	16	100
LDVT-729-02	190	50	<500	17	100
LDVT-729-03	630	50	<500	15	100
LDVT-729-04	32	50	<500	13	<100
LDVT-739-06	160	50	<500	14	100
LDVT-739-07	340	60	<500	17	200
LDVT-740-01	100	60	500	13	<100
LDVT-740-02	69	60	<500	15	<100
LDVT-740-03	97	60	<500	17	100
LDVT-740-04	540	50	<500	17	100
LDVT-740-05	370	60	<500	18	100
LDVT-740-06	86	50	<500	16	100
LDVT-741-01	350	50	<500	16	100
LDVT-741-02	85	70	<500	15	<100
LDVT-756-01	190	60	<500	17	100
LDVT-756-02	120	40	<500	13	100
LDVT-756-03	180	50	<500	13	100
LDVT-756-04	99	40	<500	14	100



26-MAR-87 REPORT 31475 REF.FILE 27027-X5 PAGE 2 OF 3

SAMPLE	AS PPM	MO PPM	SB PPM	BA PPM	LA PPM
LDVT-714-02	82	<5	0.6	<300	180
LDVT-714-03	63	<5	0.2	<300	210
LDVT-727-02	41	<5	0.5	<300	160
LDVT-727-03	170	<5	0.4	<300	130
LDVT-728-01	94	<5	0.9	<300	180
LDVT-728-05	390	<9	<0.7	1900	110
LDVT-729-01	49	<5	0.5	<300	190
LDVT-729-02	79	<5	0.6	<300	160
LDVT-729-03	80	<5	0.8	300	160
LDVT-729-04	190	<5	0.6	<300	150
LDVT-739-06	86	<5	0.5	300	120
LDVT-739-07	130	<5	0.9	<300	150
LDVT-740-01	18	<5	0.5	300	190
LDVT-740-02	76	<5	0.5	<300	200
LDVT-740-03	77	<5	0.5	<300	200
LDVT-740-04	80	<5	0.4	400	200
LDVT-740-05	94	<5	0.7	<300	200
LDVT-740-06	74	<5	1.0	300	190
LDVT-741-01	56	<5	0.6	300	200
LDVT-741-02	62	<5	1.4	400	120
LDVT-756-01	81	<5	0.8	400	160
LDVT-756-02	68	<5	0.8	<300	120
LDVT-756-03	57	<5	0.8	<300	110
LDVT-756-04	76	<5	1.0	300	110

SAMPLE	TA PPM	W PPM	TH PPM	U PPM	WEIGHT GM
LDVT-714-02	10	19	30	8	15.8
LDVT-714-03	10	50	30	9	13.8
LDVT-727-02	<10	110	20	8	28.3
LDVT-727-03	<10	190	20	7	31.1
LDVT-728-01	<10	6	30	9	30.7
LDVT-728-05	<10	75	10	7	1.31
LDVT-729-01	<10	6	40	11	24.7
LDVT-729-02	<10	9	30	8	30.8
LDVT-729-03	<10	12	30	25	39.5
LDVT-729-04	10	12	10	9	13.8
LDVT-739-06	<10	94	10	6	27.6
LDVT-739-07	<10	40	30	10	20.3
LDVT-740-01	<10	22	30	10	18.6
LDVT-740-02	10	22	30	9	10.3
LDVT-740-03	<10	30	30	11	21.9
LDVT-740-04	10	120	30	9	14.7
LDVT-740-05	<10	23	30	8	21.8
LDVT-740-06	<10	15	30	8	20.6
LDVT-741-01	10	7	30	10	14.9
LDVT-741-02	30	8	20	6	8.17
LDVT-756-01	<10	7	20	8	27.3
LDVT-756-02	40	22	10	6	17.2
LDVT-756-03	<10	78	10	6	21.4
LDVT-756-04	20	19	10	6	11.2