

ST. JOSEPH EXPLORATIONS LIMITED
 970 Laval Crescent
 Kamloops, B.C.
 V2C 5P5

091091



May 3, 1978

Mining Recorder
 Box 269
 Watson Lake, Yukon
 Y0A 1C0

Re: Assessment work Mel Prospect, Yukon

Dear Sir:

Enclosed herewith is our cheque in the amount of \$950.00 for recording the following assessment work:-

	<u>Claims</u>	<u>Grant No.'s</u>	<u>Anniversary Date</u>	<u>Years Credit Applied For</u>	<u>Fee</u>
34	(1) JEAN 11-21	y74418-y74428	October 15 79	54	\$275 220
4	(2) JEAN 1-4	y72731-y72734	April 3 83	1	60
6	(3) JEAN 5-10	y72961-y72966	April 5 80	1	90
6	(4) MEL 11-16	y22230-y22235	April 3 80	1	90
16	(5) WET 1-16	y83309-y83324	April 3 ✓	1	240
8	(6) WET 25-32	y83325-y83332	April 3 ✓	1	120
4	(7)* JEAN 1-4	y72731-y72734	April 3 83	1	20
included	(8)* JEAN 16-17	y74423-y74424	April 3 oct 15/79	1	10
✓	(9)* MEL 11-14	y22230-y22233	April 3 80	1	20
	(10) 45 Grouping Certificates				25 20
				Total:	\$950 840

*For work performed after April 3, 1978

Also enclosed are applications for certificates of work in duplicate, 5 applications to group, summary of claim expiry dates, statement of

950.00
 - 840.00
 = 110.00 to be refunded

845
 885

expenses, proration of expenses, supporting invoices, a plan showing 1978 drilling with respect to claims, previous drilling, geology and topographic features and claim grouping sketches.

Core is currently stored in 3 areas:


- (a) Holes 78-1 to 78-5 are stored on the Jean 4 claim at the camp-site (see accompanying map).
- (b) Upper ore sections for holes 78-6 and 78-7 were shipped to Toronto for metallurgical research.
- (c) Lower ore sections for holes 78-6 and 78-7 are stored with B.C. Yukon Air Services, Watson Lake, Yukon.
- (d) The remaining core of 78-6 and 78-7 is stored on the Jean 4 claim.

Also enclosed are complete drill logs and assay data.

Metallurgical studies were conducted on ore sections from 78-6 and 78-7 after April 3, 1978. Will it be possible to submit a report of this work for assessment credit for the year ending April 3, 1979?

} yes - verbally
my

Yours very truly,

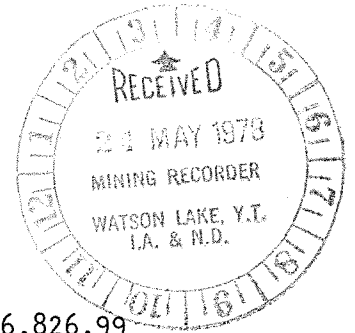


D. Miller
Senior Geologist

DM:vg
enclosures

STATEMENT OF EXPENSES

MEL Prospect; Project 250
January 25 To May 3, 1978



(1) Build ice bridge, move equipment in and out, sleigh rental, mob and demob.....	\$ 16,826.99
(2) Diamond drilling (3446 Ft. B.Q.), camp mob and demob.....	58,405.67
(3) Helicopter slinging and support.....	1,138.50
(4) Fixed wing support.....	2,844.50
(5) Assays.....	1,181.00
(6) Labour and supervision.....	8,287.01
(7) Location plan, drill log preparation, assessment report.....	1,000.00
	<u>\$ 89,683.67</u>
Costs prior to April 3, 1978.....	88,683.67
Costs April 3 to May 3, 1978.....	\$ 1,000.00

Deer

PRORATION OF EXPENSES

MEL Prospect; Project 250
January 25 to April 3, 1978

Total Cost \$ 88,683.67 3446 Ft. of B.Q. Drilling



Group 1:

JEAN 1-4, JEAN 11-15, MEL 11-16, WET 16

2100 Ft. of core and 141 Ft. of casing, total: 2251 Ft.

$$\text{Cost} = \frac{2251}{3446} \times \$ 88,683.67 = \$ 57,930.05$$

Group 2:

JEAN 16, 18, 20, WET 2, 4, 9-15, 29-32

695 Ft. of core and 12 Ft. of casing, total: 707 Ft.

$$\text{Cost} = \frac{707}{3446} \times \$ 88,683.67 = \$ 18,194.82$$

Group 3:

JEAN 17, 19, 21, 6, 8, 10, WET 1, 3, 5-8, 25-28

324 Ft. of core and 164 Ft. of casing, total: 488 Ft.

$$\text{Cost} = \frac{488}{3446} \times \$ 88,683.67 = \$ 12,558.80 \times \frac{16}{23} = \$ 8,736.56$$

Group 4:

JEAN 17, JEAN 5, 7, 9

$$\text{Cost} = \$ 12,558.80 - 8,736.56 = \$ 3,822.24$$

D.W. COATES ENTERPRISES LTD.

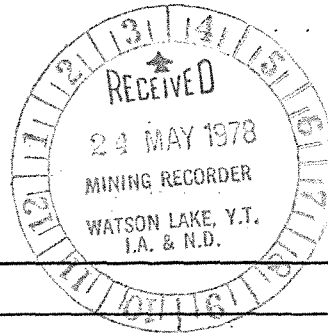
2560 A Simpson Road,
Richmond, B.C. V6X 2P9

INVOICE NO.: 1245

JOB NO.: 312

DATE: March 21/78

St. Joseph Explorations Ltd.
970 Laval Crescent
Kamloops B. C.



Watson Lake, Yukon Area Drilling

RIOD: March 1 - 11, 1978

Drilling Detail	\$21,786.15
Moving, Setting Up & Tearing Down	1,301.00
Transportation	3,633.50
Hole Surveying	561.50
Board	162.50
Material Left in Holes	805.40
	\$28,250.00

Okay
Dave Hendry
charge # 250
Mar 28/78

58,405.67
\$ 3446
(16.94)

1763
1683

3446

D.W. COATES ENTERPRISES LTD.

2560 A Simpson Road,
Richmond, B.C. V6X 2P9

INVOICE NO.: 1239

JOB NO.: 312

DATE: March 10/78

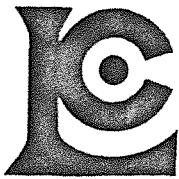
St. Joseph Explorations Ltd.
970 Laval Crescent
Kamloops, B. C.

Watson Lake, Yukon Area Drilling

PERIOD: February 16 - 28, 1978

Drilling Detail	\$20,491.
Overburden	917.
Move, Setup & Teardown	1,406.
Transportation	6,033.
Hole Surveying	403.
Core Boxes	735.
Board	169.
	<hr/>
	✓\$30,155.
	<hr/> <hr/>

OK.
D. Miller
acct 250
March 13/78



INVOICE

Tel. (604) 985-0648

Telex 043-52597

CHEMEX LABS LTD. 212 BROOKSBANK AVENUE, NORTH VANCOUVER, B.C. CANADA V7J 2C1

St. Joseph Explorations

970 Laval Crescent

Kamloops, B. C.

DATE March 30/78

INVOICE NO. 23452

CERTIFICATE NO. 33514 & 33515

ATTN. _____

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
46	Assayed for Pb, Zn, Ag & Ba @ \$25.00	\$1150.00	
1	Assayed for Cd	8.00	
	Composite charge on 46 samples @ \$0.50	23.00	
			\$1181.00

TERMS—NET 30 DAYS

76-040

1½% Per Month (18%) Per Annum Charged on Overdue Accounts

GRANT STEWART CONSTRUCTION LTD.

P.O. BOX 160 - CASSIAR, B.C. V0C1E0

Telephone: 778-7455

Telex: 036-8-8523

P.O. Box 410,
Watson Lake, Y.T.
YOA ICO

To:

St. Joseph Explorations Ltd.,
970 Laval Crescent,
Kamloops, B.C.

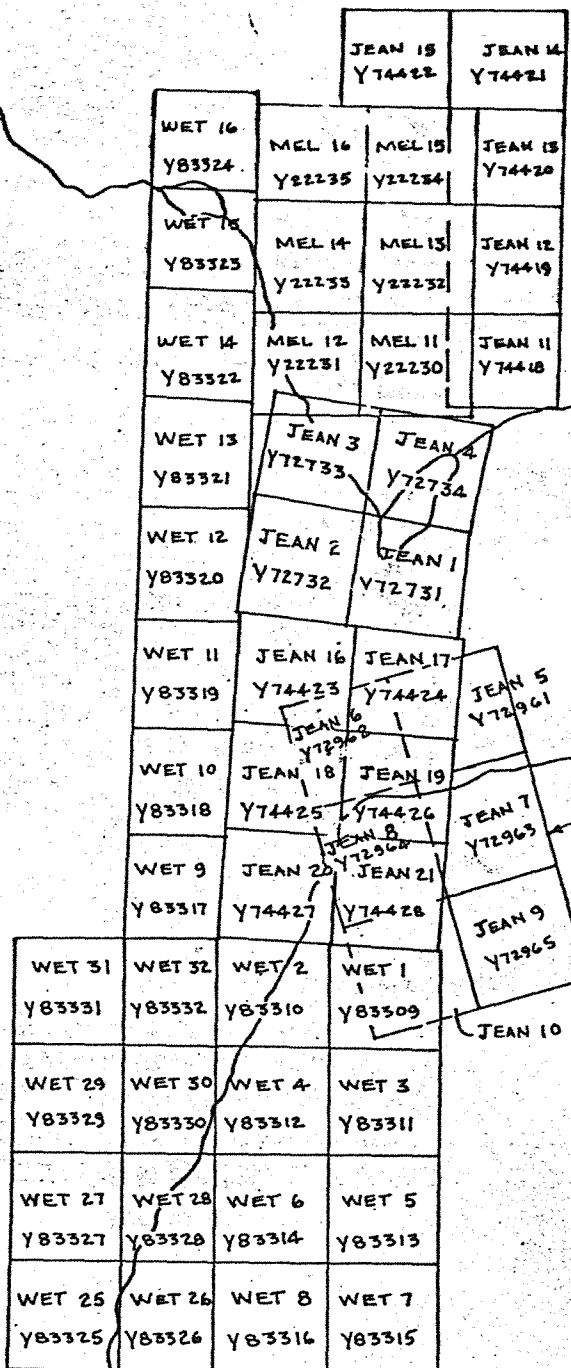
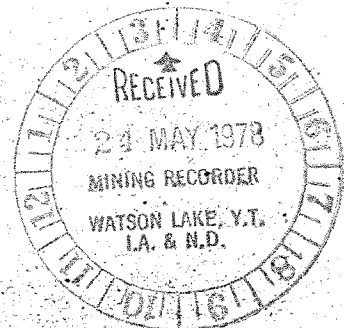
March 31, 1978.

STATEMENT

Interest Charged on Overdue Accounts

Date	Details	Charges	Credits	Balance
2/28/78	Invoice #3041	8,500.00		
3/31/78	#3054 #3055 #3181	1,541.74 6,155.25 630.00		16,826.99
	Cheque received - 10,682.50 Balance 6144.49			

Offer L.



Offer Ck.

JEAN 5 - 10
Y72961 - Y72966



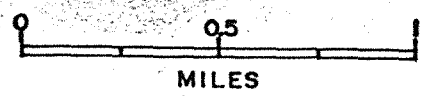
APPROX. LAT. & LONG. OF LOWER RT. COR. OF DWG.
 60° 19' _____ LATITUDE
 127° 21' _____ LONGITUDE

PROJECT NO. 250
 REPORT NO. _____

SHEET NO. _____ OF _____
 N.T.S. 95D/6

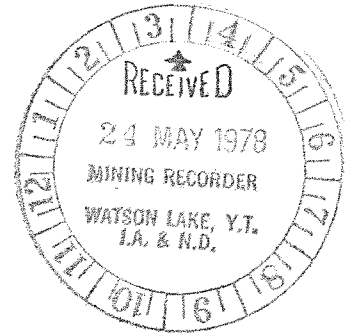
FIGURE 2
 MEL PROPERTY

CLAIM MAP



ST. JOSEPH EXPLORATIONS LIMITED
 TORONTO, CANADA

MEL PROSPECT
Claim Expiry Dates As Of
January 1, 1978

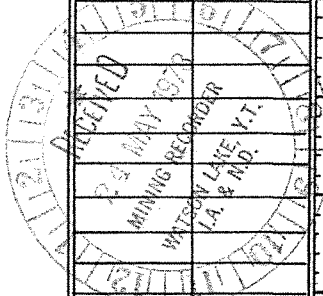


WET 1	y83309	April 3, 1982
WET 3	y83311	April 3, 1982
WET 5-8	y83313-16	April 3, 1982
WET 25-29	y83325-29	April 3, 1982
WET 31	y83331	April 3, 1982
WET 2	y83310	April 3, 1983
WET 4	y83312	April 3, 1983
WET 30	y83330	April 3, 1983
WET 32	y83332	April 3, 1983
WET 9-16	y83317-24	April 3, 1981
JEAN 1-4	y72731-34	April 3, 1983
JEAN 5-10	y72961-66	April 5, 1980
JEAN 11-15	y74418-22	October 15, 1979
JEAN 16-21	y74423-28	October 15, 1979
MEL 11-13	y22230-32	April 3, 1980
MEL 14-16	y22233-35	April 3, 1980

PROPERTY Mel	TP OR AREA	AZIMUTH 092°	DATE STARTED February 22, 1978	CORRECTED DIP TESTS		LOCATION SKETCH OF HOLE
PROJECT 250	LOT & CONC.	DIP Collar -60°	DATE COMPLETED February 23, 1978	400' -58°	600' -59°	
CLAIM NO. Jean 16	CO-ORDINATES. (Metric) 94+00N	LENGTH 707 Ft.	DRILLED BY D.W. Coates			
GRID NO.	99+35E (65W)	COLLAR ELEV. 915 M. (Approx.)	LOGGED BY D.C. Miller			

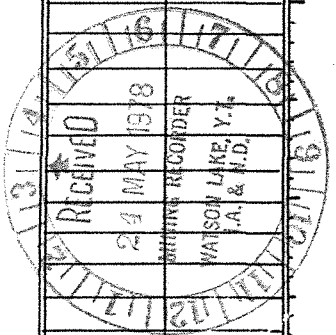
091091

FOOTAGE		SECTION	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS				
FROM	TO	1" =						Dip				
0	11		Overburden, B.Q. casing to 12', 5' of casing left in hole.		0	200	200	-60°				
11	707		Limestone, light grey, very fine to cryptocrystalline, contains 5-10% irregular mudstone and limy clasts. Mudstone clasts are brown to grey and may contain very fine disseminated pyrite and occasional thin pyrite bands. These clasts are non calcareous but may contain fine talc mineralization along partings. They may be several inches in size but are commonly less than 2 inches and have an irregular, wavy, lenticular shape. Limy clasts are generally pale grey and more spherical in shape. They are generally less than 1 inch and may have an oolitic texture. Weak banding in limestone is generally present. White calcite veining, with veins generally less than 1/8", is present locally.		200	500	300	-58°				
					500	707	207	-59°				
				Metric Summary:								
				Length = 215.5 M.								
					0	61.0	61.0	-60°				
					61.0	152.4	91.4	-58°				
					152.4	215.5	63.1	-59°				
					0	3.4	Overburden					
					3.4	215.5	Limestone					
			(12-75) Fracture and breaks mainly @ 50-70° and are rusty colored from near surface weathering			18.0	Banding @ 50°					
						69.5	Banding @ 50°					
						131.0	Banding @ 35°					
			Prominent mud clasts @ (31-36), (38-41), and (59-61)			183.5	Banding @ 45°					
						214.6	Banding @ 35°					
			Banding: 50° @ 59'									
					157.2	161.2	Fault zone, water circulation lost @					
			Core recovery: 95% with broken core and loss at (24-25)				158.5M.					



PROPERTY Me1	TP OR AREA	AZIMUTH 092°	DATE STARTED February 26, 1978	CORRECTED DIP TESTS			LOCATION SKETCH OF HOLE Azimuth and Dip from Sperry-Sum single shot device.
PROJECT 250	LOT & CONC.	DIP -65°	DATE COMPLETED March 1, 1978	40'	085°	-66°	
CLAIM NO. Jean 3	CO-ORDINATES. 100+05N	LENGTH 981'	DRILLED BY D.W. Coates	250'	074°	-64°	
GRID NO.	98+78.1E (121.9W)	COLLAR ELEV. 914 M. (Approx)	LOGGED BY D. Miller	480'	066°	-62°	
				707'	063°	-58°	
				800'	063°	-58°	
				981'	067°	-57°	

FOOTAGE		SECTION 1" =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS									
FROM	TO							AZ.	DIP	H.	V.	V. ACC					
0	17		Overburden														
0	22		BW Casing														
22	981		Limestone, light grey, very f.g. to cryptograined, contains 5-10% wavy or irregular shaped mudstone clasts and some limy clasts concentrated in a repetitive and non distinctive sequence of beds. Mudstone clasts may be slightly metamorphosed and may contain fine dusty pyrite as well as coarser grains, and find local pyrite laminae. Larger mudstone clasts commonly show fine laminations. Banding in limestone is generally vague but present. Core recovery 95-100% except where noted. Local veining by white calcite, generally less than 1/8" in size.														
			(22-247)														
			Core recovery: (22-27) - 90%														
			(93-103) - 90%														
			(132-152) - 90%														
			Sections containing several mudstone and limy clasts:														
			(26-34), (36-38.5), (40-41.5), (46-51), (56-57), (63-66), (73-74), (76-77.5), (81-85), (97-98), (116.5-117.5), (122-124), 129.5-6", (132-151), (160-182.5), (206-211), (213-220), (230-237).														
			(231-233) Solid grey laminated mudstone @ 15-30° with fine dusty py.														



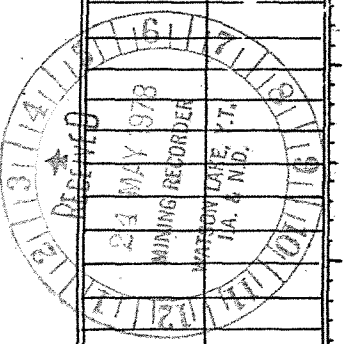
METRIC SUMMARY

Length = 299 Metres
Metres

0	6.1	6.1	092°	-65°	2.6	5.5	5.5
6.1	44.2	38.1	085°	-66°	15.5	34.8	40.3
44.2	111.3	67.1	074°	-64°	29.4	60.3	100.6
111.3	180.9	69.6	066°	-62°	32.7	61.5	162.1
180.9	229.7	48.8	063°	-58°	25.8	41.4	203.5
229.7	271.4	41.7	063°	-58°	22.1	35.4	238.9
271.4	299.0	27.6	067°	-57°	15.0	23.1	262.0
		299.0			143.1	262.0	

PROPERTY Mel Yukon	TP OR AREA	AZIMUTH	DATE STARTED March 6	CORRECTED DIP TESTS		LOCATION SKETCH OF HOLE Sperry Sun Compass
PROJECT 250	LOT & CONC.	DIP -90°	DATE COMPLETED March 7	footage	azimuth dip	
CLAIM NO. Jean 3	CO-ORDINATES 100 + 05.9N	LENGTH 656'	DRILLED BY Coates	150'	038° -85.5°	
GRID NO.	99 + 62.5E	COLLAR ELEV. 910 M (Approx.)	LOGGED BY Dave Hendry	305'	044° -80.9°	
				455'	042° -84.0°	
				656'	041° -83.0°	

FOOTAGE		SECTION 1" =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS					
FROM	TO							AZ	DIP	H.	V.		
			12' of casing total										
			Bedrock at collar (* 10' of casing and shoe stuck in hole)	Survey Data (ft)									
				0	75	75		-	-90°	-	75		
0	76.3		Limestone; - light grey to white, very fine grained to crypto-grained, contains contorted, irregular shaped and variable sized mud clasts, (medium to dark brown), some dark brown mud clasts contain fine grained pyrite, average less than 10% mud clasts throughout, minor orange or white calcite stringers, approximately 1/8 - 1/4".	75	227.5	152.5		038°	-85.5°	12.0	152.0		
				227.5	380.0	152.5		044°	-80.9°	24.1	150.6		
				380.0	555.5	175.5		042°	-84.0°	18.3	174.5		
				555.5	656.	100.5		041°	-33.0°	12.2	99.8		
						656.				66.6	651.9		
				Metres									
			Core Recovery (47 - 57') - 100%	0	22.9	22.9		-	-90°	-	22.9		
			(67 - 77') - 100%	22.9	69.3	46.4		038°	-85.5°	3.6	46.3		
				69.3	115.8	46.5		044°	-80.9°	7.4	45.9		
				115.8	169.3	53.5		042°	-84.0°	5.6	53.2		
			Broken and rusty core (67 - 77') also silicified	169.3	199.9	30.6		041°	-83.0°	3.7	30.4		
										20.3	198.7		
			Fractures										
			14' - (50° & 60°) tight										
			17' - 30° rust										
			23' - 70° broken over 1/4"										
			25' - 30° tight & calcite										
			30' - 50° tight & calcite										
			34' - 70° rust & Silica	0	23.3	Limestone							
			31.5' - 60° rust & Silica										
			50' - 80° thru mudstone and rust	23.3	45.8	Mineralized Zone							
			55' - 40° tight & calcite										
			56' - 40° tight & calcite	45.8	166.2	Shale							
			66' - 40° tight & calcite rust										
			68' - 75° tight & calcite	166.2	191.3	Mineralized Zone							
			69' - 30° & 35° tight & calcite rust										
			72' - 35° tight & calcite	191.3	199.9	Limestone							



METRIC SUMMARY

FOOTAGE		SECTION I" =	DESCRIPTION	(feet)			ASSAYS					
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Pb %	Zn %	Ag oz/ton	Ba %	* % cd
545.3	627.5	Contd.	(592.9 - 593.9) barren barite									
			(593.9 - 597) mud: barite 50:50 sulphides coarse grain; Sphalerite % much greater than galena	M78-6-22	614	617	3	0.03	2.37	<0.01	54.09	
			possible laminae, approximately 45° core angle mud up to 3", plus mud swirls between sphalerite grains.	M78-6-23	617	621	4	0.03	8.86	<0.01	47.97	
				M78-6-24	621	625	4	0.05	13.0	<0.1	42.44	
			(597 - 604) very coarse grained sphalerite and galena in Barite less mud than above (20%)	M78-6-25	625	627.5	2.5	0.03	15.9	<0.01	9.39	
			(604 - 607) coarse grained galena and sphalerite, with minor mud in Barite. Galena % greater than sphalerite									
			(607 - 614) coarse grained sphalerite and galena, minor mud sphalerite % = galena									
			(614 - 617.4) Sphalerite and galena in barite with minor mud, sphalerite % much greater than galena									
			(617.4 - 627.5) barite host, mud associated with sphalerite, sphalerite in this section is yellow-green- brown and occurs as poorly defined grains within large blebs, mixed with brown mud. Some red-brown sphalerite in this section also.	*Cadmium composite from lower and 78-7=								0.023
				AVERAGES (Feet)								BaSO ₄
627.5	629		(627.5 - 629) primarily brown mud, very minor barite and sphalerite		588	627.5	39.5	3.33	7.05	0.01	42.88	72.87
					545.3	588	42.7	0.70	1.44	0.03	49.42	83.98
					563	627.5	64.5	2.16	5.24	0.02	44.10	74.94
		Fractures (545.2 - 627.5) difficult to distinguish unless healed by sulphides or thru mud		545.3	627.5	82.2	1.96	4.14	0.02	46.25	78.60	
				545.3	563.0	17.7	1.25	0.12	0.008	54.22	92.14	
			AVERAGES (Metres)									
		(585') 45° thru mud		179.2	191.3	12.1	3.33	7.05	0.01	42.88	72.87	
		(588') 55°		166.2	179.2	13.0	0.70	1.44	0.03	49.42	83.98	
		(601') 25°		171.6	191.3	19.7	2.16	5.24	0.02	44.10	74.94	
		(604') 60°		166.2	191.3	25.1	1.96	4.14	0.02	46.25	78.60	
		Core recovery - 100% throughout		166.2	171.6	5.4	1.25	0.12	0.008	54.22	92.14	

FOOTAGE		SECTION 1" =	DESCRIPTION				ASSAYS						
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH						
2	172	Contd.	(97 - 167) limestone as above										
			Mudstone concentrations:										
			(97 - 101) less than 5% mud										
			(101) 10" irregular shaped clast										
			(106 - 113) approximately 10% mud in thin contorted clasts, large clasts (112.5 & 111)										
			(114.5)										
			(116 - 121) wispy stringers of mud approximately 1/6" apart, core angle 40°, small clusters of limestone grains between the stringers										
			(130.5 - 139) mud clasts with fine grained rusty spots around pyrite grains										
			(139 - 147) mud in this section is very black, with orange (rusty) blebs										
			-fine grained rusty spots in mud:										
			(106 - 113)										
			(126 - 147)										
			Fractures:										
			(24) - 25° rusty	(102) - 50° rusty									
			(20) - 40° rusty	(105) - 65°									
			(28) - 30° rusty	(116) - 40° calcite & rusty									
			(45) - 70° rusty	(117) - 40° mud									
			(47) - 60° calcite	(121) - 40° mud									
			(51) - 50° mudstone	(122) - 60° calcite									
			(53) - 25°	(123) - 50° calcite & rusty									
			(58) - 40° Calcite and rust	(125) - 30° calcite									
			(63) - 30° calcite and rust	(128) - 50° calcite									
			(68) - 20° calcite and rust	(133) - 55° calcite									
			(73) - 40 & 35°	(152) - 65° calcite & rusty									
			(78) - 20° calcite	(154) - 50° calcite and rusty									
			(85) - 55° calcite	(165) - 40° calcite									
			(87) - 5° calcite	(167) - 45° calcite									
			(89) - 50° calcite										

Metric

Summary Cont'd

Banding: (average core angle)

(metres)

48°

15

< 5

20

< 5

20

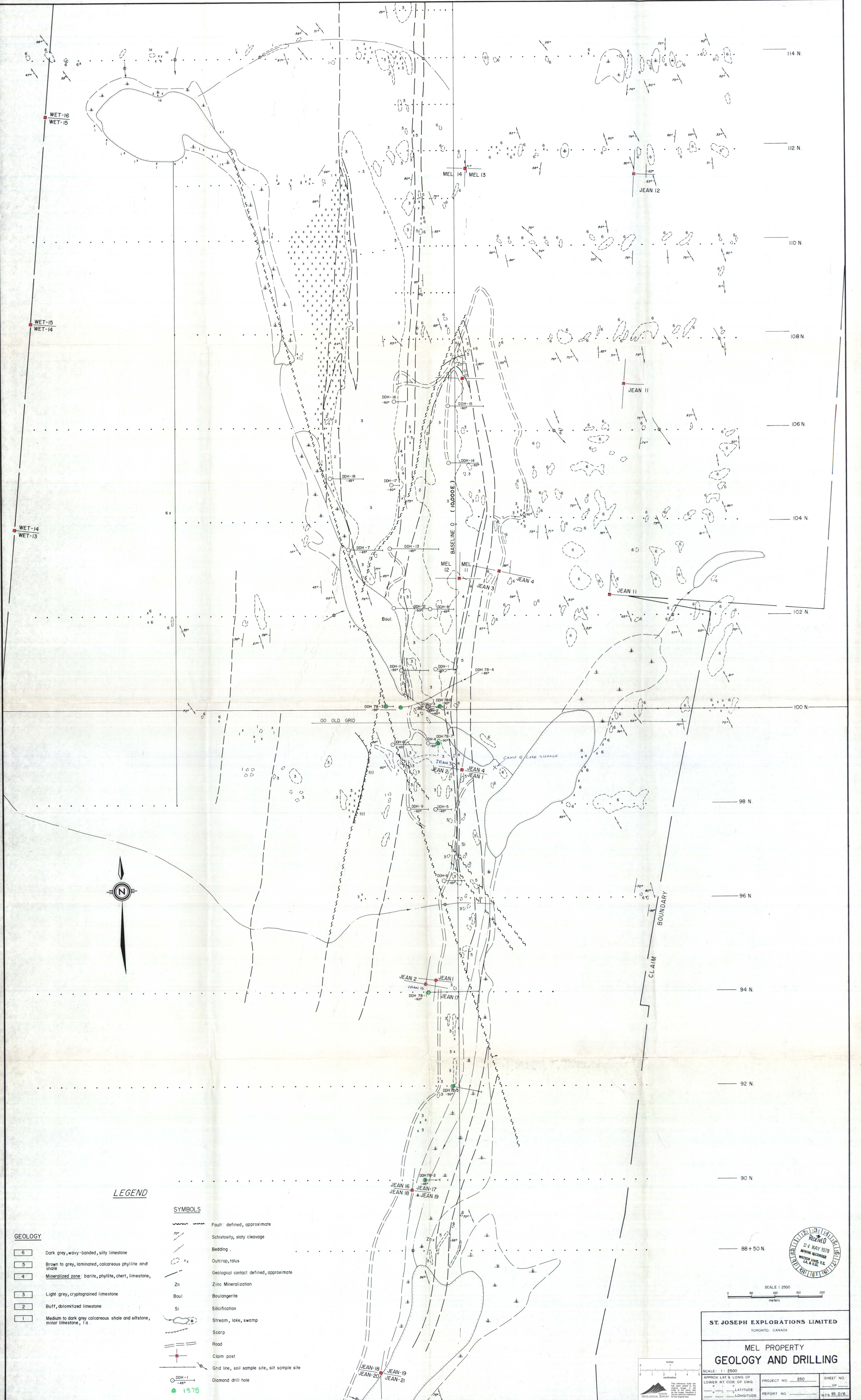
5

25

30

FOOTAGE		SECTION I" =	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAYS					
FROM	TO							Pb %	Zn %	Ag oz/ton	Ba %		
420.3	487		-Lower mineralized section, barite, galena and sphalerite										
			(420.3-421.7) contorted, brecciated, limy, light grey mud, with minor galena, no lamination	M78-7-1	421	423.5	2.5	4.85	2.16	0.01	32.38		
			(421.7-422.2) higher grade, silicified, fracture approximate core angle 5° with galena and talc? on fracture	M78-7-2	423.5	426.5	3	3.18	9.96	0.01	38.55		
			(422.2-432.7) barite; coarse, white with negligible mud, good grade, pyrite in blebs up to 1/2", very coarse sphalerite and galena.	M78-7-3	426.5	429.5	3	9.02	4.32	0.08	43.05		
			core recovery 100%	M78-7-4	429.5	432.8	3.3	16.2	9.06	0.15	31.97		
			(432.7-443.9) mostly barren barite, with minor mud and pyrite, coarse grain sphalerite at (447) less than 1% sphalerite	M78-7-5	432.8	437	4.2	0.05	0.06	<0.01	57.53		
			(443.9-454) coarse grain sphalerite and galena, minor mud, usually associated with mineralization, some wispy, very fine grained galena stringers. core angle 25-30°	M78-7-6	437	440	3	0.03	0.32	<0.01	57.19		
			(454-455) barren barite	M78-7-7	440	443.8	3.8	0.05	0.04	<0.01	56.71		
			(455-461) barite; with coarse grain sphalerite and galena, mud and silicification surround sphalerite and galena, 5" mud band at (455')	M78-7-8	443.8	447	3.2	4.44	5.69	0.01	47.43		
			(461-462.3) barren barite	M78-7-9	447	450	3	0.11	7.30	<0.01	46.57		
			(462.3-464) sphalerite in barite, sphalerite is yellow-green-brown (altered looking), minor reddish brown sphalerite	M78-7-10	450	453	3	1.44	6.62	0.02	46.50		
				M78-7-11	453	457	4	0.77	4.11	<0.01	44.53		
				M78-7-12	457	460	3	0.23	5.22	<0.01	40.28		
				M78-7-13	460	463	3	0.03	2.12	<0.01	53.62		

FOOTAGE		SECTION 1" =	DESCRIPTION					ASSAYS				
FROM	TO			SAMPLE NO.	FROM	TO	LENGTH	Pb %	Zn %	Ag oz/ton	Ba %	
420.3	487	(cont'd)	464-470) mud in barite 25-35% mud in fragments, (no bands), coarse sphalerite and galena; sphalerite % much greater than galena, 6" mud band at 469.5	M78-7-14	463	466	3	0.03	11.8	0.01	36.94	
			(470-472) barite, with minor mud, fine grained sphalerite associated with silica fragments, mud in matrix also with fine grained sphalerite and galena.	M78-7-15	466	469	3	0.05	4.11	0.01	34.90	
			(472 - 483) 10 - 30% Silica fragment in barite, pyrite association with Silica fragment, mud in matrix also with fine grained sphalerite and galena	M78-7-16	469	472	3	2.04	8.80	0.05	36.64	
				M78-7-17	472	475	3	0.15	7.16	0.02	35.96	
				M78-7-18	475	478	3	0.14	5.74	<0.01	12.58	
				M78-7-19	478	481	3	0.24	4.26	<0.01	18.85	
				M78-7-20	481	484	3	0.24	4.43	<0.01	0.64	
			(483 - 487) barite less than 20% mainly mud and Silica fragment, medium grain sphalerite and galena, approximately 1% pyrite associated with silica fragment	M78-7-21	484	487	3	0.45	2.44	<0.01	0.55	
				AVERAGES (Feet)								BaSO ₄
487	517		Limestone; light grey to white, very fine grained to cryptograined, containing variable amounts of brown to grey brown mud.		421	432.8	11.8	8.66	6.62	0.07	36.55	62.11
					432.8	443.8	11.0	0.04	0.12	<0.01	57.15	97.12
					443.8	487.0	43.2	0.76	5.66	0.01	32.92	56.01
					421.0	487.0	66	2.05	4.91	0.02	37.61	63.91
			(487 - 492) limestone: with approximately 25% mud, up to 3" fragments.	AVERAGES (Metres)								
					128.3	131.9	3.6	8.66	6.62	0.07	36.55	62.11
			(492 - 517) limestone; with minor mud and minor pyrite grains less than 1/16"		131.9	135.3	3.4	0.04	0.12	<0.01	57.15	97.12
					135.3	148.4	13.1	0.76	5.66	0.01	32.92	56.01
			Core angle in mud (485') - 35° (495') - 40° (496') - 40°		128.3	148.4	20.1	2.05	4.91	0.02	37.61	63.91



LEGEND

- SYMBOLS**
- Fault: defined, approximate
 - Schistosity, slaty cleavage
 - Bedding
 - Outcrop, talus
 - Geological contact: defined, approximate
 - Zinc Mineralization
 - Boulangerite
 - Silicification
 - Stream, lake, swamp
 - Scarp
 - Road
 - Claim post
 - Grid line, soil sample site, silt sample site
 - Diamond drill hole

- GEOLOGY**
- 6 Dark grey, wavy-banded, silty limestone
 - 5 Brown to grey, laminated, calcareous phyllite and shale
 - 4 Mineralized zone: barite, phyllite, chert, limestone
 - 3 Light grey, cryptocrystalline limestone
 - 2 Buff, dolomitized limestone
 - 1 Medium to dark grey calcareous shale and siltstone, minor limestone, l.a.

ST. JOSEPH EXPLORATIONS LIMITED
TORONTO, CANADA

**MEL PROPERTY
GEOLOGY AND DRILLING**

SCALE: 1:2500
APPROX LAT & LONG OF LOWER RT COR OF DWG.

PROJECT NO. 250	SHEET NO. 0
REPORT NO. NTS 95.0/76	DATE 24 MAY 1978

091091



SCALE 1:2500
0 50 100 150 200
meters

