DD-201

Government of Canada / Gouvernement du Canada

MEMORANDUM **NOTE DE SERVICE**

-CONFIDENTAL-

TO / A: Supervising Mining Recorder

FROM / DE: Mining Recorder - Whitehorse

SECURITY - CLASSIFICATION - *DE SECURITE*	
OUR FILE - *N/REFERENCE*	340-17-6
YOUR FILE - *V/REFERENCE*	
DATE	14 December 1978

SUBJECT / *OBJET*

Herewith your copy of Diamond Drill Logs submitted in support of assessment work.

105-K-7 PREUSSAG CANADA LIMITED CAT 24, 26

Certificates of Work and other supporting data will be forwarded when completed.

Please send us an extra copy of cat 24 back. Thanx

B.E. Sias

cc: Geology Section
ATTENTION: M. Marchand

001258

CGSB STANDARD FORM 22d 7540-21-865-6699 FORMULE NORMALISEE 22d DE L'ONGC

DIAMOND DRILL RECORD

CLAIM NO. CAT 26 PROPERTY CAT Claims - Afrex DD-20' HOLE NO. 78CT-1
091258

LATITUDE ELEVATION 2800' BEARING 315° DEPTH 507' STARTED Sept. 15, 1978 COMPLETED Sept. 18, 1978

DEPARTURE L60N SECTION 26W DIP -60 DRILLED BY Arctic Dia. Drilling LOGGED BY G.D. House

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ~~ASSAYS~~ Analysis Cu	Pb	Zn
0-21	Overburden							
21'-38'	light green-white laminated thin banded chlorite-sericite-	86401A	21'	30'		28	70	130
	phyllite, non-calcareous, S_2 lam. dip at 60°, contorted S_1	86402A	30'	40'		40	40	128
38'-38.5'	quartzo-feldspathic, sericitised, vein at 70°	86403A	40'	50'		20	14	140
38.5'-56.5'	fine grained laminated argillaceous chlorite-sericite-phyllite	86404A	50'	60'		24	34	178
	non-calcareous, quartz-sericite segregation with chlorite, S_2 at 70°	86405A	60'	70'		16	48	142
	contorted S_1, Z symmetry	86406A	70'	80'		24	22	138
56.5'-82'	Oxidized zone still, similar fine grained laminated chlorite-sericite	86407A	80'	90'		42	10	136
	phyllite, S_2 at 60°, quartz veining with oxides after pyrite	86408A	90'	100'		48	18	245
82'-97'	Similar laminated chlorite-sericite-phyllite, quartz healed fracture	86409A	100'	107'		38	18	64
	zone from 82'-85', darker graphitic phyllite layers/laminations noted	86410A	107'	117'		58	10	325
	from 92'. S_2 at 65° but varies to 40° at 89' near quartz veining	86411A	127'	131'		54	10	310
	S_2 steeper than S_1 so S symmetry decreasing chlorite							
97-'107'	dark grey/black banded/laminated graphite-quartzo-feldspathic phyllite							
	S_2 at 70°, S_1 contorted + shallower so Z symmetry non-calcareous and							
	siliceous.							
107'-127'	LOST CORE 6" gouge of black very graphitic phyllite, non-calcareous,							
	shear or fault zone.							
127'-131'	LOST CORE gouge of non-calcareous graphitic phyllite							

WESTERN MINER-PRESS LTD. STANDARD FORM NO. 502

CLAIM NO.....

DIAMOND DRILL RECORD

PROPERTY DD-201 HOLE NO. 78CT-1

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ~~ASSAYS~~ Analysis Cu	Pb	Zn
131'-172'	black banded/laminated graphite-"quartzite"-phyllite. S_2 at 70°	86412A	131'	140'		46	20	445
	py and po occur in 'quartzite' layer and on S_2 planes, also as blebs	86413A	140'	150'		52	18	690
	and disseminations throughout, non-calcareous, siliceous	86414A	150'	160'		66	12	430
172'-182'	quartz veinging parallel to lamination at 60°, with py, po in veins	86415A	160'	170'		42	4	265
	in black graphitic phyllite	86416A	170'	180'		44	4	320
182'-226'	black, very graphitic, phyllite, thin laminated quartzite bands at 60°	86417A	180'	190'		70	10	370
	parallel S_2, S and Z symmetry at 192' with quartz veined fracture	86418A	190'	200'		46	12	475
	at 211'. Massive black argillaceous graphitic "mudstone" from 224'-	86419A	200'	210'		48	28	445
	226'.	86420A	210'	220'		42	6	340
226'-250'	very graphitic black phyllite, strong "quartzite" bands and quartz	86421A	220'	230'		38	14	735
	filled fractures, heavy 5% py, po on fractures and disseminated	86422A	230'	240'		90	10	445
	breccia zones at 226', 230', 235'-237', 248'-249'. S_2 at 85° at	86423A	240'	250'		24	10	100
	224', at 40° at 234', -30° at 240' and 50° at 250'. stongly	86425A	250'	260'		20	2	70
	affected by breccia zones which are slightly calcareous	86425A	260'	270'		24	10	125
	240'-250'- very heavy py, 5%-10%	86426A	270'	280'		48	10	100
250'-262'	similar graphitic phyllite, increased quartz veining and contorted							
	S_2 lamination, S_2 generally 50°, chlorite in quartz veins.							
	LOST CORE 260'-262'.							
262'-266'	2' CORE RECOVERY. quartz veins, py, po in graphitic phyllite.							

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY ..... DD-201 ..... HOLE NO. 78CT-1

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ASSAYS Analysis Cu	Pb	Zn
266'-280.5'	similar laminated black graphitic phyllite, quartz veined,	86427A	280'	290'		18	6	100
	some chlorite associated quartz veining. S_2 laminations	86428A	290'	300'		36	16	110
	at 50° from 270'	86429A	300'	310'		42	6	100
280.5'-297'	decreasing graphite, to a denser argillaceous sericite?	86430A	310'	320'		46	10	250
	phyllite, grey-black colour, S_2 at 50°	86431A	320'	330'		62	18	255
	292'-295' - contorted, broken laminations, quartz filled	86432A	330'	340'		66	16	600
	287'-289' - chlorite-quartz-feldspar? veining in argillaceous	86433A	340'	350'		60	8	175
	"mudstone" phyllite	86434A	350'	360'		68	12	260
297'-343'	black laminated siliceous graphitic phyllite, S_2 at 50°-60°	86435A	360'	370'		70	174	975
	disseminated py + po chlorite on laminations in bands in part							
	302'-315' increased quartz veining							
	315'-320' S_2 at 30°							
	320'-342' decreased quartz							
	328'-330' chlorite in quartz filled shear							
343'-360'	increased quartz, laminations at 40° decreasing graphite and							
	increasing sericite, chlorite, py and po. lamination,							
	S_2 at 80° from quartz vein at 350'.							
360'0369'	laminated siliceous biotite schist/phyllite, quartz filled							
	fractures and veins. banded quartz 360'-365', 368'-369 quartz filled shear							

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY DD-201 HOLE NO. 78CT-1

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ~~ASSAYS~~ Analysis Cu	Pb	Zn
369'-379'	thinly laminated quartzo-feldspathic-biotite-schist/phyllite	86436A	370'	380'		28	14	80
	S_2 at 40°, increased py-po, chlorite-quartz veining with	86437A	380'	390'		22	86	110
	brecciated zones.	86438A	390'	400'		32	18	130
379'-406'	similar laminated biotite schist/phyllite, S_2 at 75°-80°	86439A	400'	410'		32	18	150
	quartz filled breccia zones, with chlorite, at 376'-378', 383'-384'	86440A	410'	420'		34	20	105
	388'-389'	86441A	420'	430'		28	16	108
406'-435'	similar laminated biotite schist/phyllite, S_2 at 70°	86442A	430'	440'		52	30	184
	quartz-carbonate veining/bands parallel to lamination	86443A	440'	450'		54	20	156
	from 410'-430'. py-po throughout, cpy noted.	86444A	450'	460'		50	16	118
435'-450'	similar laminated siliceous biotite schist/phyllite	86445A	460'	470'		52	20	130
	decreasing quartzo-feldspathic bands, S_2 at 80°, py-po	86446A	470'	480'		36	16	140
	present.	86447A	480'	490'		46	42	118
450'-480'	finely laminated siliceous biotite schist/phyllite, convoluted							
	S_2 planes in part, S_2 generally at 65°-70°							
	462' quartz filled breccia zone							
	467' quartz vein at 30°, py-po							
	473'-476' thicker quartzo-feldspathic layers, convoluted S_2,							
	chlorite and py-po increased.							
480'-495'	similar siliceous biotite schist, increased chlorite in biotite layers,							
	quartzo-feldspathic lamination thicker							

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

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LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ASSAYS Analysis Cu	Pb	Zn
480'-495'	(continued) increasing convolution of S_2 laminations	86448A	490'	500'		38	16	130
	generally at 75°	86449A	500'	507'		36	14	136
	488'-492' knots of biotite and py in contorted quartzo-feldspathic							
	laminations/bands.							
495'-507'	chlorite replacing biotite in convoluted S_2 laminations/bands							
	knots of biotite with py-po							
	497' S_2 at 40°, associated quartz veining.							
	500'-507' increasing quartz content and darker brown biotite laminations							
	507' - END OF HOLE							

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO. CAT 24

DIAMOND DRILL RECORD

PROPERTY CAT CLAIMS-AFREX DD-201 HOLE NO. 78CT-2

001258

LATITUDE ..... ELEVATION 2800' BEARING 0 DEPTH 608' STARTED 20th Sept. 1978 COMPLETED 23rd Sept. 1978

DEPARTURE L50N SECTION 28W DIP -90° DRILLED BY ARCTIC DIAMOND DRILLING LOGGED BY G. D. HOUSE

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ASSAYS Analysis Cu	Pb	Zn
0-26'	Overburden							
25'-30'	Broken, oxidized, bleached siliceous chlorite sericite phyllite, vuggy	86450A	28'	38'		46	6	114
	quartz layer/veins, rusty in part. S_2 at 80°-85° non-calcareous	86451A	38'	50'		36	4	116
30'-47'	Similar chlorite-sericite-phyllite, S_2 at 80°-argillaceous in part	86452A	50'	61'		54	4	168
	S symmetry.	86453A	61'	70'		42	12	50
	42'-44'-S_2 at 70°	86454A	70'	78'		58	12	84
	44'-quartz veining parallel to S_2	86455A	78'	105'		42	8	56
47'-61'	Darker grey colour, similar chlorite-sericite-phyllite, argellareous	86456A	105'	110'		54	6	240
	becoming slightly graphitic, S_2 at 80°, S symmetry	86457A	110'	120'		52	8	365
	59'-61' increased quartz veining.							
61'-78'	Black graphitic phyllite, thinly laminated, argillareous, S_2 at 85°-90°,							
	rusty, oxidized non-calcareous.							
78'-88'	LOST CORE 6" white bull quartz recovered.							
88'-98'	LOST CORE 1' recovered siliceous graphite phyllite							
98'-105'	LOST CORE 2' recovered siliceous graphitic phyllite, non-calcareous, py on							
	laminations.							
105'-110'	Black graphitic phyllite, coarsely laminated, S_2 at 70°-80°, becoming very							
	graphitic, py to 2-4% vol.							
110'-135'	Black siliceous quartz-sericite-graphite phyllite, S_2 ab 80° increased py							
	from 115', po in association with py from 120'.							

RECEIVED 11 DEC 1978 MINING RECORDERS OFFICE WHITEHORSE, Y.T.

WESTERN MINER-PRESS LTD. STANDARD FORM NO. 502

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY DD-201 HOLE NO. 78CT-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ~~Assays~~ Analysis Cu	Pb	Zn
110'-135'	(continued) appears denser rock, increasing quartzo-	86458A	120'	130'		50	6	235
	feldspathic layers/bands from 125'.	86459A	130'	140'		66	8	162
135'-147'	Similar very siliceous black graphitic phyllite. S_2 at 65°	86460A	140'	150'		94	10	270
	decreased quartzo-felspathic bands, disseminated py-po	86461A	150'	160'		48	14	200
147'-160'	Similar, increased contortion of S_2 and quartz veining	86462A	160'	170'		58	10	1600
	from 157'-160'	86463A	170'	180'		88	10	375
160'-162'	Quartz filled carvoluted S_2 in similar graphitic phyllite, with py-po.							
162'-164'	Similar, laminations at 70°.							
164'-167'	Healed shear zone, quart-chlorite veins, increased py-po 164'-shear at 45°,							
	164'-166' quartz-carbonate-chlorite vein/fracture filling at 65° sulphides-							
	py-po and dark brown iron-rich sphalerite in 1/4"-1/2" vein pinkish-brown							
	mica-sericite-associated vein.							
167'-189'	Siliceous highly pyritic laminated grphitic phyllite, S_2 at 85°, lenses-blebs-							
	veins py-po associated quartzo-feldspathic bands and smeared on laminations a							
	S_2 planes.							
	172'-175'-182'-185' - quartz-pyrite veins at 5°, 171'-174' S_2 at 70°, contacted,							
	S symmetry in M region, i.e., nose of fold.							

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY DD-201 HOLE NO. 78CT-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ASSAYS Analysis Cu	Pb	Zn
189'-205'	Siliceous laminated pyriteic-graphitic-phyllite, S_2 at 75° to 80°	86464A	180'	190'		44	10	100
	quartz veins with increased py-po at 189', 192'-193', 194'-195', 200'-205'	86465A	190'	200'		38	6	70
	thinner laminations	86466A	200'	210'		38	4	100
205'-210'	Finely laminated black phyllite, decreasing graphite,	86467A	210'	220'		64	4	115
	argillaceous, S_2 at 85°, increased po on laminations	86468A	220'	230'		30	4	105
210'-228'	Grey laminated argillaceous phyllite, non-calcareous,	86469A	230'	240'		42	8	160
	S_2 at 85°, thinly laminated,	86470A	240'	250'		48	6	90
	210'-211', 214'-215', 216'-217' - quartz veins with chlorite-sericite.	86471A	250'	260'		74	4	55
228'-237'	Quartz filled shear zone, contorted laminated pyritic argillaceous	86472A	260'	270'		134	8	300
	phyllite with chlorite-sericite.	86473A	270'	280'		144	28	255
237'-246'	Black laminated graphitic phyllite, S_2 at 80°, py-po in	86474A	280'	290'		102	14	985
	quartzo-feldspathic bands'. Z symmetry in M zone, fold nose,	86475A	290'	300'		66	8	220
246'-267'	Finely laminated phyllite, decreased graphite, slightly argillaceous,							
	pyritic, S_2 at 80°.							
	259'-261' veins of massive py-po-cpy to 1/4"-1/2" at 65", slightly calcareous.							
267'-319'	Black finely laminated graphitic phyllite, S_2 at 75°, non-calcareous, py-po							
	disseminated and on laminations. 277'-281' - some stringers py-po-cpy,							
	281'-287' - S_2 at 65°.							

WESTERN MINER-PRESS LTD.
STANDARD FORM NO. 502

CLAIM NO. ..... **DIAMOND DRILL RECORD** PROPERTY DD-201 HOLE NO. 78CT-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ~~Assays~~ Analysis Cu	Pb	Zn
267'-319'	(continued) 288'-293' S_2 at 50°	86476A	300'	310'		34	10	95
	294'-300' S_2 at 75°	86477A	310'	320'		42	8	105
	300'-310' S_2 at 80°-90° increased quartzo-felspathic 'bands',	86478A	320'	330'		44	8	105
	chlorite-sericite associated, increased py-po	86479A	330'	340'		50	12	100
	310'-317' S_2 at 55°-65°.	86480A	340'	350'		38	4	95
319'-350'	Fine grained finely laminated slightly graphitic argillaceous	86481A	350'	360'		52	6	130
	phyllite, S_2 at 85°-90°, decreasing py-po.	86482A	360'	370'		38	10	100
350'-365'	Black laminated graphitic phyllite, S_2 at 70°-75°, py-po	86483A	370'	380'		84	12	235
	351'-353' - quartz filled fracture.	86484A	380'	390'		96	8	250
	359'-360' - quartz vein to 8" with chlorite-pink mica (sericite) -	86485A	390'	400'		30	4	140
	pyOpo and minor sphalerite, S_2 at 75°.							
365'-390'	Broken ground. LOST CORE. 5' recovered, black graphitic phyllite, decreased							
	quartzo-felspathic bands - disconnected lithons only, S_2 at 75°-80°,							
	increased disseminated py-po.							
390'-429'	Black finely laminated graphitic phyllite, thin quartzo-feldpathic bands, S_2							
	at 75°-80° to 400', mixed S over Z symmetry indicating M zone- more of fold,							
	391', 394', 397', 398' - quartz veins with py-po-cpy.							
429'-458'	Decreasing graphite, change to biotite-sericite-phyllite with increased							
	py-po and minor sphalerite, quartzo-felspathic.							

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LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ~~ASSAYS~~ Analysis Cu	Pb	Zn
429'-458'	(continued) layers 3mm with py-po, S_2 at 80°.	86486A	400'	410'		38	8	135
	446'-458' thinly laminated biotite-quartz-graphite phyllite	86487A	410'	420'		72	14	340
	with 5-10% sulfides as py-po-cpy and suspected sphelerite	86488A	420'	430'		30	6	245
	S_2 at 75°, minor chloritic-sericite associated quartz veins	86489A	430'	440'		24	12	75
458'-471'	Similar dark brown to black biotite-graphite-sulfide	86490A	440'	450'		42	14	220
	phyllite, gradually decreasing biotite, S_2 at 75°-80°,	86491A	460'	470'		42	6	270
	chlorite-sericite associated quartzo-feldspathic bands.	86492A	470'	480'		58	8	335
	5-10% sulfides as stringers and 'smears' on lamination, py-po-cpy	86493A	480'	490'		62	10	225
471'-510'	Similar dark brown/black biotite-graphite-sulfide phyllite/	86494A	490'	500'		38	10	670
	schist, S_2 at 85° thin laminations, siliceous and very	86495A	500'	510'		54	8	545
	slightly calcareous in part, py-po to 10% on laminations	86496A	510'	520'		56	8	435
510'-590'	Similar dark brown/black biotite-graphite-sulfide phyllite/	86497A	520'	530'		36	8	250
	schist, quartz-carbonate-chlorite veins associated	86498A	530'	540'		64	8	105
	contorted S_2, up to 10% py-po	86499A	540'	550'		40	8	120
	523'-523.5', 527'-529', 547'-548', 556'-557', 566'-567', 581'-582'-	86500A	550'	560'		46	14	145
	quartz-carbonate veins with chlorite and blebs py-po-cpy	86501A	560'	570'		40	12	70
	graphite decreases from 550' through 570'	86502A	570'	580'		40	12	100
590'-592'	Quartz healed fracture, chlorite-quartz-carbonate-	86503A	580'	590'		38	12	105
	py-po vein.							

CLAIM NO. .....

DIAMOND DRILL RECORD

PROPERTY DD-201 HOLE NO. 78CT-2

LATITUDE ..... ELEVATION ..... BEARING ..... DEPTH ..... STARTED ..... COMPLETED .....

DEPARTURE ..... SECTION ..... DIP ..... DRILLED BY ..... LOGGED BY .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	Rock Geochem ~~ASSAYS~~ Analysis Cu	Pb	Zn	
592'-608'	Much decreased graphite in biotite-sulfide phyllite/schist	86505A	590'	595'		38	14	95	
	increased quartz veining with associated biotite-chlorite-	86505A	595'	608'		32	16	100	
	py-po. S_2 at 75°-80°								
	END OF HOLE 608'								
	CASING LEFT IN HOLE								
	SET UP LEFT INTACT								

WESTERN MINER-PRESS LTD.
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