MERRITT DRILL HOLE #/

INCOMPLETE

00161(63)

PROGRESS Notes DRILL HOLE INCOMPLETE



Log of Hole No. 1 Cont'd.

Correction

Description	Thickness	Depth
Shale (dark, sandy in part) Shale (dark, sandy in part, crushed) Sandstone (light grey, limey) Shale (black, broken, slickensided) Shale (fractured, limey)	Actual - 3' 10" 2" 3' 3" 1' 7" 4' 9"	900 0 0 0

"Joseph T. Mandy" Mining Engineer

Merritt Diamond Drilling

Log of Hole #1

(Located on NW quarter Sec. 14, Tp. 91, 378' N 35° E from Diamond Vale Hole #11) (Elevation 1986') Started January 7, 1946

	Thickne	<u>88</u>	Deptl	1
Boulder Clay	1021	,	102'	OĦ
SANDSTONE, grey, med. to coarse grain, with shaly	202	•		J
streaks	14' 0)n	116'	0π
SHALE, dark, sandy	6' 6		122'	-
SANDSTONE, very coarse, poorly sorted, shaly streaks	51 0)#	1271	6 ¹¹
SHALE, grey, sandy	31 6		131	
SANDSTONE, grey, coarse, coal marks	21 1		133'	-
COAL, bony	0' 1	LO# :	134	8"
SHALE, dark, fissile, coal marks	1' 6	5# 3	136'	2"
SANDSTONE, grey coarse, some fine sand and shaly stre	aksll'	0"	1471	2#
SHALE, black, leaf molds, few sandy streaks	91 0		156'	2#
SANDSTONE, shaly, finely bedded	21 6	5# :	1581	8"
SHALE, dark to black, coal marks	31 0) n :	161'	8"
SHALE, dark, sandy	1' 0)# :	162	8"
SANDSTONE, med. grain, with few shaly streaks	41 8	3"]	1671	4 ¹¹
SHALE, sandy, grey	2' 6	5 11 7	169'	10"
SANDSTONE, med. grain, shaly streaks, coal marks	31 2	3# 7	1731	0#
SHALE, black, coal marks, much fractured	71 0	-	180 1	0 "
SANDSTONE, light grey, coarse	31 8		183†	8#
SHALE, grey, sandy	5' 6	57 .	189'	2"
SANDSTONE, grey coarse, poorly sorted	10' 1		2001	0"
SHALE, dark grey, slightly sandy Dip 250	91 0		2091	
SANDSTONE, shaly Dip 150	4' 6	-	213'	
SHALE, dark grey, sandy, fractured	61 6	5 11	2201	0"
SANDSTONE, med. to coarse, poorly sorted, few fine sa				
and shaly streaks	19' 0		239'	-
SHALE, black, compact, leaf molds	13' 6		252'	
COAL	0 * 8	_	253	
SHALE, black, much fractured	8' 1		262'	
SANDSTONE, fine grain, shaly Dip 140	4' ()"	266 °	0 4
SANDSTONE, very coarse poorly sorted with some				
irregular fine conglomerate bands. Abrup				
contact below	14' (280	
SHALE, black, fractured	31]		283 '	
COAL,		1통 기 :		
SHALE, black fissile, leaf molds	91 (292	
SANDSTONE, med. to fine grained, somewhat shaly	8' 0		300 '	
SHALE, dark fractured	4' (304	
SANDSTONE, grey, shaly, coal marks	3' (•	307	
SHALE, grey to black, fractured, 1 coal seam	61 6	_	314'	
SANDSTONE, shaly, dark grey	4' 6	٠ ' (318'	6 "
SANDSTONE, light grey, coarse, poorly sorted,			776 *	c #
irregular conglomerate streaks	12' 0) "	330'	o

•

CONGLOMERATE, fine	01	9#	331'	3"
SANDSTONE, light grey, coarse, friable, poorly sorted	271	0"	3581	3"
SHALE, dark, sandy, with fine sand streaks Dip 140	51	9#	3641	0"
SANDSTONE, grey, medium grained, shaly streaks	41	6"	3681	
CONGLOMERATE, fine, with coarse sand streaks and 2"	_			_
streak of sandy shale	51	0#	3731	6 *
SANDSTONE, fine grained	ĭ'		3751	
CONGLOMERATE, fine	٥٠		3751	
SANDSTONE, fine grained	ĭ	_	3761	
SHALE, light grey, sandy		0#	3781	
	71'		450'	
SANDSTONE, light grey, coarse, few shaly streaks		5 1 #	461'	
SHALE, dark grey, sandy, sand streaks, coal marks		3 n	464	
COAL, with la" shale parting				
SHALE, dark grey, coal streaks	Τ.	727	466	
COAL		102"		
SHALE		3"	468	
COAL, with 2" shale parting		10"	474	
SHALE, black	_	9#	475	
COAL	_	3"		
SHALE, black		4"		
COAL,		9"		
SHALE, black		1 2 "		~
COAL		2 <u>1</u> "	476	
SHALE, black, coal marks and several 2" coal seams		1"	4851	
COAL		10"	486	
SHALE, black, coal marks		6 ¹¹	4881	
COAL, boney	1'	6 "	489°	
SHALE, black, coal streaks	l'	0 11	490	8"
COAL		8"	491'	4"
SHALE, black, fissile, leaf molds, coal marks	10'	8"	5021	O #
COAL	01	6 ¹¹	5021	6 ¹¹
SHALE, grey, somewhat sandy	41	6 ¹¹	5071	0"
SANDSTONE, coarse, poorly sorted	1'	0#	5081	0π
SHALE, dark grey to black, fractured and sheared	71	0#	5151	011
SANDSTONE, grey, med. grained with shaly and fine	,	•		_
sand streaks. Dip 180	321	6 #	547	6"
SHALE, black, coal marks	-	On.	5501	
COAL	-	10"		
SHALE, black		2"		
COAL, some boney streaks		6"		
SHALE, black, fissile, coal marks, leaf molds		Ö#		_
SANDSTONE, shaly		0"		_
SANDSTONE, Shary SANDSTONE, light grey, medium grained with a few	U	U	010	O
	701	0#	6431	0.11
coarse streaks, carbonized twigs		6"		
SHALE, black, compact, coal marks		0#		
COAL, in part boney		_		
SHALE, black, coal streaks		6 m		
COAL, boney		10"		
SHALE, dark grey, sandy, fractured		gn		
SANDSTONE, dark grey, shaly	Τ,	6 "	657	o
SHALE, grey, sandy, with many sand lenses, much	^-	a #	¢ / 17 *	O#
fractured and high core loss	91	6 "	667 '	0"

SANDSTONE, coarse, poorly sorted		0"	6891	0"
SHALE, dark grey, sandy, fractured	19'	0 **	6881	04
SANDSTONE, grey shaly Dip 100	101	0π	6981	
SANDSTONE, grey, coarse		ō#	7081	
SANDSTONE, med. to fine grained with shaly streaks		10"		
			711'	
SHALE, dark grey, with sandy streak	-	2 #	718'	-
SANDSTONE, shaly streaks Dip 80	_	8"	721'	
SHALE, black, fractured	21	6 "	724	2"
SHALE, grey, sandy, cross-bedded sandstone streaks	21	6 **	726!	8"
SHALE, black, compact	י ב	4"	728	
SHALE, grey, sandy, with sand lenses	_	6 m	746	-
SANDSTONE, shaly, shale streaks dipping at high	10	•	7 10	Ū
	191	c #	nces	O #
angles, vertical channeling		_	766	
SHALE, sandy, with sand streaks	7,	0"	773'	0"
SANDSTONE, grey, poorly sized, with shaly streaks				
dipping at high angles	291	0"	8021	0#
SHALE, grey, sandy	21	8"	8041	8"
SANDSTONE, shaly streaks at high angles		411	811'	
SANDSTONE, light grey, coarse, poorly sorted	_	9#	813'	-
SHALE, grey, sandy	_	3"	8201	
SANDSTONE, light grey, coarse	-	0"	8231	
	-	-		-
CONGLOMERATE, med. to coarse, with few sand lenses	261	-	849'	-
SANDSTONE, grey, coarse, cross-bedded		0"	8571	_
SHALE, black, coal marks		0"	859'	0"
SHALE, black, coal marks and soft black mud	_	0")		
COAL,	01	6#)	8621	6 "
SHALE, dark grey, compact	16'	6 11	8791	0 **
SHALE, grey, sandy	4'	0#	883	0#
SHALE, dark grey, compact	51	011	888	
SHALE, grey, sandy, with sand streaks		0"	8901	-
SANDSTONE, coarse, cross-bedded, shale streaks		ŎĦ		
CIATE deak men frostured		Ŏ#	900	
SHALE, dark grey, fractured	1.	U	900	U
SHALE, dark, soft, slickensided partings, carbonate	201	O #	0101	O #
stringers. Abrupt irregular contact	TO.	0"		
SANDSTONE, light, coarse-grained		4"	910'	
SHALE, dark, finely cross-bedded		1"	910'	5π
SANDSTONE, light grey, coarse, cross-bedded				
Cross-bedding dips 700		5"	910'	10"
SHALE, dark with intercalated seams of fine sand	1'	Οπ	911'	10"
SANDSTONE, light grey, coarse (about 1 mm.) with some				
grains of shale. Abrupt contact.	21	0#	913	10#
SHALE, black with a few fine-grained sand streaks	~	•	•	10
interbedded.	7.1	2"	9151	O.#
	Τ.	2	913	<u> </u>
SHALE, black, compact, wavy bedding with average dip				
45 degrees	31	5"	918	
COAL, bony, bright partings, friable		15")		
SHALE, black, much fractured, slickensided fragments	l'	3 <mark>눈</mark> ")	919'	10"
SHALE, black with a few sandy streaks and wavy bedding				
dipping about 45 degrees	4	2 n	924	0"
SHALE, grey, badly fractured. Abrupt, Irregular				
Contact, Dip 350	31	4"	9271	4 ⁿ
SANDSTONE, grey, fine even-grained		8" -	928	
	-	_		

END OF HOLE #1

"Wm. H. White"

Assoc. Mining Engineer.

Merritt Diamond Drilling

log of hole #1

(Located on 1M quarter Sec. 14, Tp. 91, 378* N 350 R from Diamond Vale Hole #11) (Elevation 1986*)
Started January 7, 1946

	Thickn	1088	Depti	Ī
Boulder Clay	102*		102	0"
SANDSTONE, grey, med. to coarse grain, with shaly	_ y~			•
streaks	14*	0*	116*	0"
SHALE, dark, sandy	81	6*	122	
SAMDSTOME, very coarce, poorly sorted, shaly streaks	5*	0"	127	6*
SHALE, grey, sandy		6*	131*	
SAUDSTONE, grey, coarse, coal marks		10"	1331	
COAL, bony		10"		
SHALE, dark, fissile, coul marks	_	6"	136	
SANDSTONE, grey coarse, some fine sund and shaly stre	aks11'	' 0"	147	
SHALE, black, leaf molds, few sandy streaks	-	0"	156	
SANDSTONE, shaly, finely bedded		6*	158	
SHALE, dark to black, coul marks		0" 0"	161	
SHALE, dark, sandy		8#	162°	
SANDSTONE, med. Crain, with few shaly streaks		6*	169	_
MIMLE, sandy, grey SAMDSTONE, med. Grain, shaly streaks, coal marks		2*	1731	
SHALL, black, coal marks, much fractured		Õ"	180	-
SWIDSTONN, light grey, course		8"	183	
MALL grey sandy		Ğ"	189	_
SANDSTONE, grey coarse, poorly sorted		10*		
The 12, dark grey, sli htly sandy bin 250		0"	209	
SALMSTONE, shaly Din 150	41	6"	215	
Shile, dark grey, send; fractured	6 *	6"	2201	0"
SAUDSTONE, med. to coarse, poorly sorted, few fine as	uid			
and shaly streaks	19'		259	
SHALE, black, compact, leaf molds	13'		2551	
<u>C I</u>		8"	255	
Sh LE, black, much fractured		10"		
SAUDSTONE, fine (rain, shaly Din 140	4.	0"	266	0"
SAMDETOME, very coarse poorly sorted with some				
irregular fine conglomerate bandsbrupt	,	∧ ₩	nent.	A #
contact below		0"	250	-
SHARE, black, fractured	0.1	127	2831 2831	
OUTE block finally loof molds		0"	2921	
COAL, SHALE, black fissile, leaf molds SAUDSTORL, med. to fine grained, somethet shaly		Ö"	300	
Shandle field to like grained, benefited sharp Shall, dark fractured		0"	304	
SARATORS, grey, sauly, coal marky		0"	507	
A.M.L. grey to bluck, foretures, 2" coul som		Ğ#	314	
Show all shaly dark roy		6"	316	
SM DETOME, light grey, course, poorly sortel,	-	-		_
irregular complomerate streams	12.	0"	8891	û"

461 55" 455* 45" 476 62 * 485 10" 502 0" SANDSTONE, light grey, medium grained with a few 701 0" coarse streaks, carbonized twigs 6431 01 CHALE, black, compact, coal marks 31 67 6461 61 CO.I. in part boner < 0 m 650 6 6 1 6" 6521 / SHALE, black, coal streaks COAL boney 0 10" 652! 10" SHALE, dark grey, sandy, fr etered St En 6561 0" SAMDSTONE, dark grey, shaly 1' 6" 6571 6" Shall, (rey, mand), with many sand lenses, much fractured and high core loss 91 64 6671 01

.

	SANDSTONE, coarse, poorly sorted SHALE, dark grey, sandy, fractured SANDSTONE, grey shaly Dip 10° SANDSTONE, grey, coarse	10'	0"	669° 0° 688° 0° 698° 0° 708° 0°
	SANDSTONE, med. to fine grained with shaly streaks	ેં 3†	10"	711: 10=
	SHALE, dark grey, with sandy streak	61	2 7	718° 0°
	SANDSTONE, shal; streaks Dip 80	31	8"	721 8*
	SHALE, black, fractured	2'	D"	724° 2" 726° 6"
	SHALE, grey, sandy, cross-bedded sandstone streaks SHALE, black, compact	31	48	728 0*
•	SHALE, grey, sandy, with sand lenses		6"	746 6
	SANDSTONE, shaly, shale streaks dipping at high		•	, 50
	angles, vertical channeling	19*	6*	766 0
	SHALE, sandy, with sand streaks	7 •	0"	773* 0*
	SANDSTONE, grey, poorly sized, with shaly streaks	_		
	dipping at high angles		0"	802 0
	SHALE, grey, sandy			804 8
	SANDSTONE, shaly streaks at high angles			811°0° 813°9°
	SANDSTONE, light grey, coarse, poorly sorted SHALE, grey, sandy			820 0
	SANDSTONE, light grey, coarse			823* 0*
	CONGLOKERATE, med, to coarse, with few sand lenses			849° 0"
	GANDSTONE, grey, coarse, cross-bedded	8	Ō#	857 0"
	SHALE, black, coal marks		0#	859* O*
	BHALM, black, coal mar s and soft black mud		0")	_
	COAL,	0,	6")	862 6"
	SHALE, dark grey, compact		6"	879 0
	SHALE, grey, sandy			883 0"
	SHALE, dark grey, compact	9 t	0"	890 0"
	SHALL, grey, sindy, with said streaks SANDOTONE, coarse, cro s-bedded, shale streaks	31	0"	893° 0"
•	SHALE, dark grey, fractured		ŏ"	
	SHALE, dark, soft, slickensided partings, carbonate	•	•	,-
	stringers. Abrupt irregular contact	10*	0"	910 0"
	SHDSTONE, light, course-grained		4"	910 4
	SHALD, dark, finely cross-bedded -SANDSTONE, light groy, coarse, cross-bedded		1"	910° 5°
	SAUDSTONE, light groy, coarse, cross-bedded		~ ~	0300 300
	Cross-bedding dies 700	• • •	5" 0"	910° 10° 911° 10°
	CHILE, dark with intercalated seams of fine send	1.	0	ATT . TO
	SAIDSTOIM, light grey, coarse (about 1 mm.) with some grains of shale. Shrupt contact.	91	0"	913 10"
	We LE, black with a few fine-grained sand streaks	•~		0.10
	interbedded	1,	2"	915 0"
	SHALE, black, compact, wavy bedding with average dip			
	45 degrees	31	5"	918 5"
	COMI, bony, bright partings, friable		1년"	918° 64"
	Shall, black, much fractured, slickensided fragments		35")	919* 10*
	SHALE, black with a few sandy streaks and wavy bedding			0041 05
	dipping about 45 degrees	₹.	2"	984 0"
	SMAE, grey, badly fracturedbrupt, Irrevular Contact, Din 350	7.1	4 #	c271 4"
	SANDETONE, Crey, fine even-grained	ŏ•	8"	928° 0"
	•			

SANDSTONE, grey, fine even-grined. Scattered			•	
grains of sulphide	41	D=	932*	O#
		11"	9321	
SANDSTONE, grey, fine even-grained. Dip 290	ň	î*	953*	
SHALE, Srey, compact, sandy		10"		
SHALE, grey, compact, sandy. Fine sand streaks Dip 130		20	700	70
Seam of carbonate	11	2"	938*	0*
SHALE, grey, compact, sandy		11"		
S IDSTONE, coarse, poorly sorted		1.		
CHALE, grey, compact, sandy. Fine and seams Din 310	3.8	04	9495	O#
SHALE, grey, compact, numerous sand seams 112 290	71	67	949*	64
SHALE, dark, badly fr ctured	ġŧ	6*	952"	0=
SHALE, black, coul marks, badly sheared		10"		
MUD or GOUGE SHAM, containing fragments of shale and	-			
a 2" seem of crushed COAL	0	5*	9541	3*
BRECCIA, coarse fragments, sand cement	_	9"	9571	_
MUD or COUGE STALL, containing fragments of breccia	-	•	***************************************	
and fine flakes of shale	1,	0"		
COAL, about 1" of bony fragments and some coal mud	_	-	•	
recovered	01	6"	958*	6*
MUD or GOUGE SEAL, as above				_
SHALE, ground up, containing some coal fines		10"		
DIORITE, medium coarse grained, containing biotite and	Ţ			
horneblende. Sheared contact with shale				
dips 45°	01	8"	961	6*
SHALE, dark, badly sheared			962	0"
CONGLORERATE, poorly sorted with coarse sand lenses	21	0"	9641	0"
ERECCIA, fragments of shele and volcanics			968	
CONGLONERATE, moft, muddy, coaly shale streaks	1:	84	969	8"
BRECCIA, large volcanic fragments with musdy cement.	 .		,	_
Rock soft and friable	6#	4"	976	0 "
FELSITE, light grey, fine grained.	2	0"	978*	0"
GRUDHOTONE, fine-grained, dark green, chloritic	71	Ó#	985	OH
GRUENSTORE, fine-grained, somewhat brecciated			988	
MEMIE, co pact, indurated			9891	
GREENSTONE, pillowed, somewhat porphyritic	5	6*	995*	0"

END OF HOLD A

"Im. h. hito"

Assoc. Mining Engineer.

Merritt Diamond Drilling

Log of Hole #1

Located on NW quarter Sec. 14, Tp. 91, 578' N 55° K from Diamond Vale Hole #11) (Elevation 1986')

Boulder -lay SANDSTONE, grey, med. to coarse grain, with shaly	102*		102	Q *
streaks		0"	116	
SHALE, dark, sandy		6*	122	
SANDUTONE, very course, poorly sorted, shall streaks SHALE, grey, sindy		0" 6"	127*	
SUDSTOLE, grey, coarse, coal marks		10"	133	
COAL bony		10"	134'	8"
SHALE, dark, fissile, coal marks	71	6#	136	
SAMDTONE, grey coarse, some fine send and shaly streaks	11'	0"	147	
SHALE, black, less molds, few sandy streaks		0"	156	
SANDSTONE, shaly, finely bedded		6*	158	
SHAIE, dark to black, coal marks SHALE, dark, sandy		0" 0"	161	
SEEDSTONE, med. grain, with few shaly streaks		8"	167	
SHALE, sandy, grey		6 *	169	
SANDSTONE, med. grain, shaly streaks, coal marks	3*	2*	173	
SH LE, black, coal marks, much fractured	7 1	0"		
Shidstolia, light grey, coarse		8"	183	_
Shall, grey, sandy		6"	189	
SAIDSTOLE, crey, coarse, poorly sorted		O#	2001	-
SMALL, dark crey, slightly sandy Din 25° SMDSTORE, shaly Din 15°			209'. 213'	
SHALE, dark grey, sandy, fratured		6*		
SMADSRATU, med. to sourse, poorly sorted, few fine sand	•	•		J
and shaly streaks	19	0**	209*	0"
SHOLE, black, compact, leaf moles		G#	2521	
	<u> </u>	8"	253	
Silve, black, much frastured	8	10"		
SUDSTOUL, fine grain, shaly <u>lin 140</u> SANDSTOUL, very coarse poorly sorted with some irregular	<u>.</u>	0"	2661	0"
fine conglomerate bands. Abrust contact below	. 241	Off	280	0#
SHALD, black, fractured		1½"	283 '	
50·J.	0.4	ت ت	3651	
ShAlk, block, fissile, leaf molds	91	0"	292	
Suppose had, to fine grained, some hat shaly		0	•00°	
Shall dark, fracture		0"	JQ4	
SUMMOTOLL, prey, shaly, coal marks		0,4	3071	
SHALL, grey to block, fractured, 2" coal seam		6" 6"	014	
SAMDETCHE, shaly, dark grey SAMDETCHE, light grey, course, poorly sorted, irregular	<u></u> •	6.	516*	6
conglomerate streaks	121	0,11	3.₂0 *	6"
CGT.CLC WITE, fine		9"	∂31*	
SUNDUTURE, light roy, course, friable, poorly sorted		ŏ"	368	
Shall, dark, sandy, with fine some streaks win 14	5*	3"	3341	O#
SA DUTO L. rey, radium graines, and surcass	4	6"	360	5"
TOWNED ANTE, fine, tital course shall soreths and 2"			m was A	
streak of s ndy sle	51	0"	5731	ů"

SANDSTONE, fine grained 1, 9. 375' 0" COMOLOWERATE, fine 01 B# 3751 4 SANDSTONE, fine grained 576° 8° SHALE, light grey, sandy 2 0 W 378 8 SANDSTONE, light grey, coarse, few shaly streaks 71 4" 450 0" SHALE, dark grey, sandy, and streeks, coal marks 11 51" 461 54" COAL, with 14 shale parting 3 34" 464 9 BHALE, dark grey, coal streaks 486° 43° COLL 1 101" 466 SHALE 01 3" 468 6" COAL, with 2" shale parting 5' 10" 4741 48 SHALE, black 01 9= 475* 1* COAL 0 5" 475 4* SHALE, black 01 48 475 8 COAL 476 5" 0. 9. SHALE, black 01 14" 476 64 COAL 01 21" 476 9 9 SHALE, black, coal marks and several to coal seams 9" 1" 485 10" 0 10" 4861 8" SHALE, black, coal marks 11 6" 488 2* COIL boney 1' 6" 4891 8" SHALE, black, coal streaks 1 0" 490 8* 20 1 0 8" 491 4" SHALL, black, fissile, leaf molds, coal morks 10' 8" 502 * 0* 01 6" 502 6" SHALE, grey, somewhat sandy 41 6" 507 0" SANDSTONE, coarse, poorly sorted 1 0" 508 0" SHALE, dark grey to black, fractured and sheared 0" 515 0 S'MDSTOFE, grey, med, grained with shaly and fine sand streaks. Din 180 32 6* 5471 6" SHALE, black, coal marks 3' 0" 5501 6" COL 4' 10" 5051 47 SHALE, black 11 2" 556 * 6 P 10 %, some boney strenks 4 561' 0" 6" SHAL, black, fissise, coal marks, leaf molds 6 1 OH 5671 0" SANDSTONE, shaly 6 0" 573 0" SANDSTONE, light grey, medium grained with a few coarse streaks, carbonized twics 70 0" 643 0 SHALE, black, compact, coal marks 31 6" 646 6 30%, in part boney 4 0" 650 6ª Small, black, coll streaks 6" 6521 0H 0.1. boney 0 10" 652° 10" SHALE, dark grey, sindy, fractured 656 0" SAND TONE, dark grey, shaly 1 6" 657 67 SHALE, grey, sandy, with many sand lenses, much frequence and high core loss 9 6 6671 0" SUDSTORL, coarse, poorly sorted 21 01 669 0" Slith, dark grey, sundy, racture. 31 OH 6861 0" ? SAMUUTOME, grey shaly Dip 10 10 0" 6921 0" 10 0" 3.103.000, grey, coarse 708 0" SAMOTOME, m.d. to fine grained with shely strucks 31 10" 711 10" SHAL., dark grey, with sandy streak 61 21 710 0" 3 8" Salasicia, shaly streaks DIP 60 721 8" SHALL, black, fructured 21 67 7241 21

SHALK, grey, sandy, cross-bedded sandstone streaks SHALK, black, compact	2,	6" 4"	726 [†] 728 [†]	0*
SHALE, grey, sendy, with sand lenses	18*	8	740	6"
SANDSTONE, shaly, shale streaks dipping at high angles, vertical channeling	101	6#	7661	ΔĦ
SHALE, sandy, with sand streaks	77	0*	7731	
SANDSTONE, grey, poorly sized, with shaly streaks	•			•
dipping at high angles		0=	802	-
SHALE, grey, sendy	2	8*	804	
SAMDSTONE, shaly streaks at high angles		4"	811	
SANDSTONE, light grey, coarse, poorly sorted		9*	813,	9#
Shale, Frey, Sandy		5"	8201	0=
SANDSTONE, light grey, coarse	31	0"	8231	0"
CONGLORERATE, med, to coarse, with few sand lenses	26 1	0"	849	0"
SANDSTONE, grey, coarse, cross-bedded			8571	0"
SHILE, black, coal mirks		0"	859*	0"
SHALE, black, coal marks and soft black mud	7 4	0")		
<u>004</u>		6")	882	6"
SHALE, dark grey, compact	157	67	879*	70
SHALE, grey, sindy			8831	0"
SHALE, dark grey, compact	51	0"	888*	0"
SHALE, grey, sandy, with sand streaks			890	0"
SANDSTONE, coarse, cross-bedded, shale streaks			893*	0 m
SHALL, dark grey, frectured			900	

Remainder of log is on file at Victoria

"Wm. h. White"
Assoc. Mining Angineer
10/Mar/46

I have checked back over the last hundred feet of Landy's gging and find it similar to my own, possibly a bit more meticulous. Ovever, there are minor differences. That which he logs as shale is in places arenaceous to the extent that under the glass individual grains can be seen. This material, which is dark, but not black in appearance may be what is referred to as "sandy shale" in the log of hole #11. Mandy's "sandy shale" is that in which sand streaks are quite evident to the named eye. At present I am logging the slightly arenaceous shale as "Crey" or "dark", reserving the term "black" for the argillaceous shale. Another points material which Kandy describes as "limey" is that containing patches and stringers of carbonate. In log ing I am following the usual practise of tabulating the core missing in a separate column, where possible assigning the loss to its proper place in the section.

The textural features of these sediments indicates _ variable environment of deposition such as would obtain in a periodically flooding river at grade or delta. Cross-bedding, abrupt changes in grain size, poorly sorted sands, abrupt contacts between sandstone and shale, and much evidence of channelling characterize the material. Probably the beds are quite lenticular, and correlation of individual horizons in these lower measures correspondingly difficult.

TIC	eness et	SSING	DEPTH	1
Mille, dark, soft, slickensided portings, 10° carbonste stringers.			9101	^0 "
Abrupt irregular contact S.D. DOTO H. light, coarse-grained	4"		910*	
SHAE, dark, finely cross-bedded SHAMORD, light crey, coarse, cross-bedded Cross-bedding dips 700	4" 1" 5"		910° 910°	
Shill, dark with interculated seams of fine 1' sand.	0"		911.	10"
with some grains of shale. Short contact.	0"	7"	913*	10"
SHILE, black with a few fine-grained sand 1° streaks interbedded.	2"	7"	915	0"
COM. bony. bright postices original	5"		918 ' 918 '	
COU, bony, bright parties, friable Sillia, black, much frectured, slickensided 1° fragment;	วิฐ") ·		919	
Shalb, black with a few sondy streaks and way bedding dipping about 45 degrees4	1 2" 21	3"	9241	0"

MERRITT DRILL HOLE #1 - 100 924 to 964

SHALE, grey, badly fractures	31	4"	1.	2"	9270 40
Abrupt, Irregular Contact, Dip 35	~=	.			.0001 08
SANDSTONE, grey, fine even-grained	O	8"		•	928 0
SANDSTORE, grey, fine even-grained,					amai am
Scattered grains of sulphide		0"	1,	9*	952 0
SHALE, grey, compact, somewhat sendy		11"			3384 II a
SANDSTONE, grey, fine even-grained. Dip 290		1"			933, 0"
SHALE, grey, compact, sandy	31	10"			936* 10*
SHALE, grey, compact, sandy. Fine sand					,
streaks Dip 230. Seam of carbonate.	1*	2"			938* 0*
SHALE, grey, compact, sandy		11"			938° 11°
SANDSTORE, coarse, poorly sorted		-ī*			939* 0*
SHALE, grey, compact, sendy. Fine send seams	•	-			•
Dip 31°	31	0"			942 0
	0	U			746
SHALE, grey, compact, numerous sand seems	17 B		9.8	-	949* 6*
Dip 290			A :	0*	
SHALE, dark, badly fractured		6"			952 0"
SliALE, black, cosl marks, badly sheared	1,	10"	0	10"	953 10
MUD or COUGE SEAM, containing fragments of					_
shale and a 2" seem of crushed COAL		5*			954* 3*
BRECCIA, coarse fragments, sand cement.	2 *	9"	0.	67	957 0"
MUD or COUCE Shall, containing fragments of					
breccia and fine flakes of shale	1*	0"			
COAL, about 1" of bony framents and some	•				
coal mud recovered	0	6*(7)1	10"	958* 6*
MUD or GOUG. SEAK, as above	ĭ				960 0 0 "
Elila, ground up, containing some coal fines	_	10"		4"	960 10 P
DIORITE, medium coarse grained, containing	•	2 •	•	*	100 10
biotite and hornoblende. Sheared					
contact with shale dips 450	0*	8"			961* 6*
	01		0*	1"	962' 0"
SHALE, dark, budly sheared	U.	D .	U'	Τ.,	902° U"
CONGLONURATE, poorly sorted with coarse	21	A #			
sand lenses	2"	0"	0	2"	964 0

Note: Diorite logged at 961' is thought to be a boulder.

"im. H. White"

william ... white Assoc. Lining Engineer.

15

log of Merritt Drill Hole #1 - 964 - 995

Breccia, fragments of shale and vol-			•		
canics	4"	0"	•	968	0"
Conglomerate, soft, muddy, coaly shale					
streaks	1 *	8"	•	9591	8"
Breccia, large Volcanic fragments with	•				
muddy cement. Rock soft and friable	6		•	976*	0"
Felsite, light grey, fine grained.	2	0"		9781	0=
Greenstone, fine-grained, dark green,					
chloritic	7 *	0"		9851	0"
Greenstone, fine-grained, somewhat					
brecciated	3			988*	6"
Shale, compact, indurated	1'	0"		989*	6*
Greenstone, pillowed, somewhat porphy-					
ritio	5	6*		9951	0"

TND OF HOLE /1

".m. L. hite"

William II. white Assoc. Jining Engineer

MERRITT DRILL HOLE #1

Thickness	Depth to Bottom	
31 3 <u>3</u> 1	4641 9"	COAL, with 13" shale parting
1: 73:	466 44 4 468 3	EHALE, dark grey, coal streaks
0' 3" 5' 10"	468 6* 474 4*	SHALE COAL, with 2" shale parting Thin coal layers in shale to 502' 6" depth.

4· 10*	55 5¹	4*	COAL			streaks
4. 10. 1. 2. 4. 6.	5561	6#	SHALE,	blac	:k	
41 64	561'	0"	COAL,	Some	ponea	streaks

7+ O#	6501 6*	COAL, in part boney
1 6 *	6521 0"	SHALE, black, coal streaks
01 10"	652' 10"	COAL, boney
31 2"	6561 0"	SHALE, dark grey, sandy, fractured

MERRITT DRILL HOLE #2

21	8=	6541	O#	COAL.	bright,	hard,	with t	Mo-May	cleat	
Öī	4.	6541	Тm	COAL						
ÖT	3**	6541	7*	SHALE						
01	3*	6541	10*	COAL						
01	1*	6541	11"	SHALE						
01	3"	6551	2"	COAL						
01	2*	6551	Fiu	SHATE		_				
11	8"	6571	On				narrow	strea	ks of bone	
0	9"	6571	9"	SHALE	, grey,	sandy				-19-
21	2*	659 1	<u> </u>	COAL.	boney.	with n	umerous	thin	streaks of	<u>suale</u>

MERRITT DRILL HOLE #4

11	0*	367*	3"	COAL
1'	4*	3681	7"	SHALE, dark with coal partings
31	3 "	371	10"	COAL
	3"	3721	1"	SHALE, boney
	3**	3721	<u>1</u> 411	COAL
	2*	3721	-6"	SHALE, boney
4.	6*	377!	<u>0"</u>	COAL, 4 shaly seams totalling 6"

21	0**	4591	0*	COAL.	and	boney	shale	. (5*	coal	core	, 1'3" co	re
7:	10"	4601	10"	COAL.	and	shale	(<u>)</u> †41	coal	8" sh	ale c	missing ore, 10" missing	
											missing)

PK

MERRITT DRILL HOLE

Thickness Depth to Bottom

3° 3½" 464° 9° COAL. with 1½" shale parting
1° 7½° 466° 4½° SHALE, dark grey, coal streaks
1° 10½° 468° 3° COAL
0° 3° 468° 6° SHALE
5° 10° 474° 4° COAL. with 2° shale parting
This coal layers in shale to 502° 6° depth.

4* 10* 555* 4* COAL 1* 2* 556* 6* SHALE, black 4* 6* 561* 0* COAL, some boney streaks

4* 0* 650* 6* COAL, in part boney

1* 6* 652* 0* SHALE, black, coal streaks

0* 10* 652* 10* COAL, boney

3* 2* 656* 0* SHALE, dark grey, sandy, fractured

MERRIT DRILL HOLE 2

21	8=	6541	0=	COAL.	bricht,	hard,	with	two-wa	cleat	
OF		6541	4*	COAL,						
OT	3"	6541	7"	CHAIL						
01	3"	6541	10"	CO/J						
61	1"	6541	11"	Silalia						
01	3*	655*	2"	COT						
01	2"	6551	4"	SHALE						
11	8"		Oas	COAL.	bricht.	hard.	narro	w stree	iks of b	one
01	911	6571	9"	SHALE	grey.	sandy				
21	2"	6591	11"	COAL	bonoy.	voith n	unerot	is thin	stroaks	of shale

IT RIT DRILL HOLD 4

11		3671	3"	CO / I	
11	40	3681	7"	SHALE,	dark with coal partings
31	3#	3711	10"	COLL	_
	3"	3721	1"	CHALE,	bonoy
	3"	3721		CO 21	
	2"	3721	6"	Sidli.	
41	<u>6"</u>	3771	C _M	COLL.	halv sears totalling 6"

21 0" 4591 0" COL, and boney shale, (5" coal core, 1'3" core missing)
11 10" 460' 10" COL, and shale, (4" coal 0" shale core, 10" core missing

MERRITT DRILL HOLE

Thickness	Depth to Bottom	
31 33"	4641 9=	COAL, with 14" shale parting
1. 103	466 44	SHALE, dark grey, coal streaks
01 3H 51 10#	468 6 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SHALE COAL, with 2" shale parting
		Thin coal layers in shale to 502' 6" depth.

4º 10º	5551 4*	COAL
1 2 2 4 6 8 4 6 8 4 1 6 8 4 1 6 8 4 1 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	556 6	SHALE, black COAL, some boney streaks

4.0		6501 6	" COAL	in part	boney	
11	6=	6521 0)" SHALL	boney	coal st	reaks
01	20"	652' 1	O" COAL.	boney		
31	2 4	656' C	SHALI	dark g	rey, san	dy. fractured

MERRITT DRILL HOLF #2

21	8=	6541	0=	COAL,	bright.	hard.	with to	Wo-Way	cleat	
0,	4.4	6541	49	COAL				<u> سائسین کی ساوی .</u>		
<u>O*</u>	3*	6541	7*	SHALE						
01	3**	654	10"	COAL						
0.	1*	654	11"	SHALE						
01	3n	65 5 *	2"	COAL						
<u>G</u>	2*	65 5 1	E H	SHALE		•				
1.	8#	657	Q#	COAL.	bright,	hard.	narrow	streal	rs of bone	
<u>ा</u>	9"	6571	9#	SHALE		sandy	القاورين المستحددة			
21	2*	659•	11"			with m	umerous	tin s	streaks of	shale

KERKITT DRILL HOLE #4

1' ()*	3671	3"	COAL
_	+44	3681	7"	SHALE, dark with coal partings
31	3 74	371	10 ^p	<u>COAL</u>
7	3"	372'	1 "	SHALE, boney
	<u>} n</u>	372	<u>।</u> स	COAL
1.	*	372	_	SHALE, boney
4,) "	<u> 377'</u>	O"	COAL, 4 shalv seams totalling 6"

21 0"	459	0*	COAL.	and	beney	sh-le	(5*	COR	L ccı	e, 1'	3* c	ore
1' 10"	460	10°	COAL,	and	shale,	(₃ tu (ccal	8" s1	nale	core.	ssin 10" ssin	core

Merritt Dismond-Drilling

log of Hole No. 1 (contd)

Description	Thickness	Depth
Sandstone (grey; coaly marks, shale streaks) Bed dip - 120	10* 0*	708° 0°
Sandy shale (coaly marks, compact		
Actual 1 8"	2 6 6 7 (1	? }
Shale (dark, part sandy, coaly streaks) Actual 3' 2"	E1 68/6	
(Note - grinding in core tube)	5* 6*(7	7)
Shale (black; coaly streaks, soft, broken)		
Actual 0° 9"	2 0"(7	718 0
Shaly sanistone (grey) " 3 8"	31 97	
Sandy shale " 0' 5"	0 6 6 7	
Shale (dark grey, fracture; crushed,	_	•
broken, slickensided) Actual 5' 4"	5* 9 *	7:81 07
Shale (# #	8, 0,	736 0*
Shale (compact)	91 0"	745 0"
Shale (* broken)	1' 0"	746 0*
Sandy shale (sandy pockets; coaly marks; shall	LO	
streaks vertical and steep angle cross-bedding; limey, fractured	: B ,	
slic ensided)	10* 0*	756* 0*
Shaly sandstone (" " ")	10' 0"	766 OH
Shaly sandstone (" "broler		768 4 4 m
Shely sandstone (" " " "	,	100 4
Actual 1º 8"	41 8"	773 ° 0"
Shaly sandstone (" ")	10 0 0 "	783 0"
Shaly sandstone (" ")	81 0"	791 0"
Shaly sanustone (" ")	41 6"	795 6 6
Shaly sandstone (" ")	51 67	801 0"

"Joseph T. Handy" Hining Angineer

Progress Report - Merritt Diamond Drilling Feb. 22nd. to 24th.

Feb. 22nd: Pulling Casing (Day Shift only - 8 men)

Feb. 23rd: Pulling stand pipe and preparing for move (One shift - 7 men)

Feb. 24th: Not working.

William H. White
Assoc. Mining Engineer

Progress Report - Merritt Diamond Drill Hole #1 Feb. 19th to Feb. 21st.

Feb. 19th: Night Shift: Cored 964'-968'; 968'-978' Graveyard Shift: Cored 978'-988'

Day Shift: Cored 988'-995' END OF HOLE Night Shift: Pulling rods and casing Feb. 20th:

Day Shift: Fulling casing (8 men) Feb. 21st:

No night shift.

PROGRESS REPORT, MERRITT D.D. HOLE #1 - Feb. 17th to 19th

Feb. 17th: Night Shift: Cored 924 - 928; 928 - 932.

Graveyard : 932 - 942

Feb. 18th: Day Shift : Cored 942 - 952

Night " : " 952 - 957 Graveyard : " 957 - 960

Feb. 19th: Day Shift: Cored 960 - 964; drilling.

Progress is slow due to blocky ground and short pulls, but core recovery is satisfactory.

"Wm. H. White"

William H. White Assoc. Mining Engineer

Merritt Diamond Drilling

Log of Hole #1

Hole #11) (Elevation 1986*)

	Boulder Clay	102		102	0π
	SANDSTONE, grey, med. to coarse grain, with shaly				
	streaks		O _M	116	
	SHALE, dark, sandy		6 *	122	
	SANDSTONE, very coarse, poorly sorted, shall streaks		0"	127	
	SHALE, grey, sindy		6"	131	
	SANDSTONE, grey, coarse, coal marks		10"	133	
	COAL, bony		10"	134	
	SHALE, dark, fissile, coal marks	I	_	136	
	SANDSTONE, grey coarse, some fine sand and shaly streaks		0"	147	
	FHALE, black, leaf molds, few sandy streaks		07	156'	
•	WDSTONE, shaly, finely bedded		6"	158'	
	SHALE, dark to black, coal marks	3'	0,4	161'	
	SHALE, dark, sandy		0"	162	
	SANDSTONE, med. grain, with few shaly streaks		8"	167	
	SHALE, sandy, grey		67	169	
	SANDSTONE, med. grain, shaly streaks, coal marks		2"	173	_
	SHALE, black, coal marks, much fractured	71		180'	
	SANDSTONE, light grey, coarse		8"	183	
	SHALE, grey, sandy		6 ¹¹	189	
	SANDSTOKE, grey, coarse, poorly sorted		10"	2001	-
	SHALE, dark grey, slightly sandy Dio 250		0"	209	-
	SANDSTONE, shaly Din 150	_	6 "	213'	_
	SHALE, dark grey, sandy, fractured	6.	6 *	220	U ''
	SENDSTORE, med. to coarse, poorly sorted, few fine sand	301	077	0201	O. 11
	and shaly streaks		6 "	239 1 25 21	
	SHALE, black, compact, leaf molds		8"	2531	
	COAL much fractured		10#	2621	
	SHALE, black, much fractured		0,4	266'	
•	NDSTONE, fine grain, shaly Dip 140	.	U	200	0
	JANDSTONE, very coarse poorly sorted with some irregular fine conglomerate bands. Abrupt contact below	u 5/1	Оπ	280 1	Oπ
		31		283	
	SHALE, black, fractured		4 1 1	2831	
	SHALE, black, fissile, leaf molds	0	0#	2921	
	SANDSTONE, med. to fine grained, some hat shaly		0"	300	
	SHALE, dark, fractured		ο"	304	
	SANDSTONE, grey, shaly, soal marks	31	o"	307	6"
	SHALE, grey to black, fractured, 4" coal seam		6"	314	
	SANDSTONE, shaly, dark grey		6"	318'	
	SANDSTONE, light grey, coarse, poorly sorted, irregular	- -	Ü	010	Ŭ
	conglomerate streaks	121	0"	330 *	6*
	CONCLORED ATE, fine		9#	3311	
	SANDSTONE, light grey, coarse, friable, poorly sorted	-	o"	3581	
	Simils, dark, sandy, with fine sind streaks wip 14		9"	364	
	SALDSTONE, grey, medium grained, shally streaks		6"	368	
	CONCLOURATE, fine, with coarse sumu streams and 2"	*	•		•
_	streak of sindy shale	51	0"	3731	6 n
_	our our or any owner	•	-		_

e e e e e e e e e e e e e e e e e e e			Digital	Like, "
+ 2 -	,	-5	,	•
SANDSTONE, fine grained	1'		375 0	
CONGLOMERATE, fine	0°		375 8	
SANDSTONE, fine grained		0"	376 8 378 8	
SHALE, light grey, sandy SANDSTONE, light grey, coarse, few shaly streaks	71	_	450 0	
SHALE, dark grey, sandy, and streaks, coal marks	ii'	5 <u>1</u> 7	461' 5	
COAL, with la" shale parting	31	3 7	464 9	" பூர்
SHALE, dark grey, coal streaks		711		in white
COLL				so and in
SHALE .		3*		# Shale
COAL, with 2" shale parting		10"		" shall
SHALE, black		3 ⁿ		m cont
COAL SHALE, black	01	4"	475 8	
		9"	4761	
COAL SHALE, black	01		476 6	
YAL.		25 11		
SHALE, black, coal marks and several 1" coal seams	91		485' 1	
COAL SHALE, black, coal marks	1,	10" 6"	486 * 8	
, , , , , , , , , , , , , , , , , , ,		6" _	4891 8	
COAL, boney SHALE, black, coal streaks	1'	0"	490 8	
COAL .	0 1	8"	491	
SHALE, black, fissile, leaf molds, coal marks	10	8"	5021 (_
COAL	- O!		502'	
SHALE, grey, somewhat sandy		6 ^{tt}	5071	
SANDSTONE, coarse, poorly sorted	71	0 "	508† (515† (
SHALE, dark grey to black, fractured and sheared	7.	0"	272, (J
SANDSTORE, grey, med. grained with shaly and fine sand streaks. Dip 180	32*	6#	5471	3 W
SHALE, black, coal marks		0#	5501	
COAL	/ 4	10"	5 55 '	
SHALE, black	1	2 ¹¹	556	
O.L. some boney streaks	4	6"	561	
SHALE, black, fissile, coal marks, leaf molds		0#	5671	
('ANDSTONE, shaly	6,	0"	573	0 <i>"</i>
SANDSTONE, light grey, medium grained with a few coarse streaks, carbonized twigs	701	0"	6431	0#
SHALE, black, compact, coal marks		6 m	646'	
COal, in part boney	1 41	0"	650 °	<u>6π</u> / ½* -
SHALE, black, coal streaks	/ 1'	611	6521	<u>Оп</u> ,
COAL boney	0:	10"	652	
SHALE, dark grey, sandy, fractured	3'	2"	6561	
SANDSTONE, dark grey, shaly	_	6"	657	" ט
SHALE, grey, sandy, with many sand lenses, much fretured	gt	6 <i>"</i>	6671	Λ#
and high core loss SANDSTONE, coarse, poorly sorted		0"	669*	•
SHALL, dark grey, sandy, tractured		0"	688	
SANDSTONE, grey shaly Dio 100	10'	07	698	07
SANDSTONE, grey, coarse		0π		
SANDSTORE, med, to fine grained with shaly streaks		10"		
SHALE, dark grey, with sandy streak		2"	718'	
SANDSTONE, shaly streaks DIP 8		8" 6"	721	
SHALE, black, fractured	۵۰	o ·	724	<i>د</i>

SHALE, grey, sandy, cross-bedded sandstone streaks	2.	6*	726 ° 728 °	8"
HALE, black, compact	1.	•"	788	0-
SHALE, grey, sandy, with sand lenses	18'	6	746	5 "
SANDSTONE, shaly, shale streaks dipping at high angles,			1	
vertical channeling	19"	6*	766	0=
SHALE, sandy, with sand streaks	7 !	0.	773	0*
SANDSTONE, grey, poorly sized, with shaly streaks			• .	
dipping at high angles	29*	0*	802	0"
SHALE, grey, sendy		8*	804	
SANDSTONE, shaly streaks at high angles		4*	811'	
SANDSTONE, light grey, coarse, poorly sorted		9"	813'	
		8"	820	
SHALE, grey, sandy			823	
SANDSTONE, light grey, coarse			849	
CONGLOMERATE, med. to coarse, with few sand lenses				
SANDSTONE, grey, coarse, cross-bedded			857	
ALE, black, coal m rks		0"	859	Q۳
SHALE, black, coal marks and soft black mud		0"}		
COAL		6")	862	
SHALE, dark grey, compact			8791	
SHALE, grey, sandy	41	0 **	883	0"
SHALE, dark grey, compact	51	0"	888	0
SHALE, grey, sandy, with sand streaks			8901	
SANDSTONE, coarse, cross-bedded, shale streaks			893	
SHALE, dark grey, fractured			9001	
printing water prof & transmission	•	•		_

Remainder of log is on file at Victoria

"Wm. H. White"
Assoc. Mining Engineer
10/Mar/46

log of Merritt Drill Hole #1 - 964 - 995

Breccia, fragments of shale and vol-			•		
canics	4"	0"	-	968	0*
Conglomerate, soft, muddy, coaly shale	11	8"		9691	8*
streaks	. .	Φ	•	303	0
Breccia, large volcanic fragments with muddy cement. Rock soft and friable	61	47	-	976*	0"
Felsite, light grey, fine grained.	21	Ō۳		978	0*
Greenstone, fine-grained, dark green,					
chloritic	7 *	0 **	. •	9851	0"
Greenstone, fine-grained, somewhat					
brecciated		6 ¹¹		988	6 *
Shale, compact, indurated	1'	07		989	6 "
Greenstone, pillowed, somewhat porphy-					
ritic	5 1	6 ⁿ		9951	0"

UND OF HOLE /1

1

"Wm. H. White"

William H. White Assoc. Mining Engineer

MERRITT DRILL HOLE #1 - LOG 924' to 964'

SHALE, grey, badly fractures Abrupt, Irregular Contact, Dip 35	3*	4*	1*	2*	9271 4m
SANDSTONE, grey, fine even-grained, SANDSTONE, grey, fine even-grained,	0 *	-8*		r	928 0
Scattered grains of sulphide	41	0#	1'	9#	932* 0*
SHALE, grey, compact, somewhat sandy	_	11"	-		932 11 W
SANDSTONE, grey, fine even-grained. Dip 290		1"			933* 0"
SHALE, grey, compact, sandy	3*	10"			936 10
SHALE, grey, compact, sandy. Fine sand					
streaks Dip 230. Seam of carbonate.		2"			938 0 0
SHALE, grey, compact, sandy		11"			938* 11"
SANDSTONE, coarse, poorly sorted	01	1"			939* 0*
SHALE, grey, compact, sandy. Fine sand seams Dip 31	31	0*			942 0"
SHALE, grey, compact, numerous sand seams	U	U			8±2 <u> </u>
Dip 290	71	6 11	1'	0*	949 6
SmALE, dark, badly fractured	•	6"	ō	6 *	9521 0"
SHALE, black, coal marks, badly sheared		10*		10"	953 10"
MUD or GOUGE SEAM, containing fragments of	_		•		,,,,
shale and a 1" seam of crushed COAL	0 *	57			954 3"
BRECCIA, coarse fragments, sand cement.	21	9"	0*	6 ⁷¹	957* O*
MUD or GOUGE SEAM, containing fragments of	-				
breccia and fine flakes of shale	1'	0"	•		
COAL, about 1" of bony fragments and some					
coal mud recovered	01	6"(?)1	10"	
MUD or GOUGL SEAM, as above		6"			9601 0"
HALE, ground up, containing some coal fines	0'	10"	0 *	4"	960 10
DIORITE, medium coarse grained, containing					
biotite and horneblende: Sheared	٠.	^ *			0424 48
contact with shale dips 45°	01		0 4	3 H	961 6" 962 0"
SHALE, dark, badly sheared CONGLOMERATE, poorly sorted with coarse	U.	θ	Û,	Τ.,	A0%, 0
sand lenses	21	0#	01	2#	964° 0°
Patta Tomora	r.	V	U	4	30# O

Note: Diorite logged at 961' is thought to be a boulder.

"Wm. H. White"

William 4. White Assoc. Mining Engineer. I have checked back over the last hundred feet of Mandy's logging and find it similar to my own, possibly a bit more meticulous. However, there are minor differences. That which he logs as shale is in places arenaceous to the extent that under the glass individual grains can be seen. This material, which is dark, but not black in appearance may be what is referred to as "sandy shale" in the log of hole #11. Mandy's "sandy shale" is that in which sand streaks are quite evident to the naked eye. At present I am logging the slightly arenaceous shale as "Grey" or "dark", reserving the term "black" for the argillaceous shale. Another point: material which Mandy describes as "limey" is that containing patches and stringers of carbonate. In loging I am following the usual practise of tabulating the core missing in a separate column, where possible assigning the loss to its proper place in the section.

The textural features of these sediments indicates a variable environment of deposition such as would obtain in a periodically flooding river at grade or delta. Cross-bedding, abrupt changes in grain size, poorly sorted sands, abrupt contacts between sandstone and shale, and much evidence of channelling characterize the material. Probably the beds are quite lenticular, and correlation of individual horizons in these lower measures correspondingly difficult.

	TAICKNESS DEPT		ГH			
	•			SSING		_
SHALE, dark, soft, slickensided partings,	10'	0"	5	0"	910	~0 "
carbonate stringers.					•	
Abrupt irregular contact						
SANDSTONE, light, coarse-grained		4"			910'	4"
SHALE, dark, finely cross-bedded		4" 1" 5"			910	5"
SANDSTONE, light grey, coarse, cross-bedi	ea	5"			910	10"
Cross-bedding dips 700						
SHALE, dark with intercalated seams of fin	e 1 1	0"			911	10"
sand,						
SANDSTONE, light grey, coorse (about 1mm.) 2'	0"		7 m	913	10"
with some grains of shale.						
Abrupt contact.						
SHILE, black with a few fine-grained sand	. 1'	2"		7"	915'	Ο"
streaks interbedded.					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	
SHALE, black, compact, wavy bedding with						
averace dip 45 degrees	31				918	5"
COAL, bony, bright partings, friable SHALE, black, much fractured, slickenside		13")			918	6 1 "
SHALE, black, much fractured, slickenside	â 1'	3 7 11)		2"	919'	
fragments.						
SHILE, black with a few sandy streaks an	đ				•	
wavy beading dipping about 45 degr		2"	21	3"	9241	0"

Werritt Diemond-drilling

log of Hole No. 1 cont'd.

Description	Thickness	Depth
Shaly sandstone (shale streaks vertical and steep angles cross bedding coaly marks, liney, fractured,		
slickensided.) Sandstone (coarse; coaly fractures) Actual	10* 0*	811. 0.
Shale (black, part sondy, broken,		
Sandstone (coarse Sandstone to fine	4'2"	
conglomerate) " Sandstone (" " " " "	1.0"	821 0
very soft) *	018*	
Sandstone (" " " " " " " " " " " " " " " " " "	2.7	
Conglomerate to breceia (coarse, dark green, soft) * Conglomerate to brec ia (coarse,	6*2*	831 0 0
greenish, broken, soft) *	2187	834 0
Conglomerate to breccia (coarse, greenish, broken, soft) "Conglomerate (very coarse; soft,	1*0"	<u>836 ° 0"</u>
broken at end; mud scams) "	313"	840° 0°
Conglomerate " " " " " " " " " " " " " " " " " " "	2:1"	
and core probably washed) "	0*4*	850 07
Sandstone (grey, coarse, fractured, slickensided)	414"	
Shale (black, broken, fractured	-	
Sandstone (frictured, slicionided) "	0'6"	856° 0"
Shale (black, broken)	1*8*	ŕ
Shale (muddy, very soft)	1'8"	
Shale (coaly, muddy, very soft) "	015*	
Shale (brown, borkon, soft)	1.8"	864° 0"
Note 8' cave in hole from 856 - 864		
Shale (fairly compact, block, in part broken)	418"	869* 0*
Shale (black, soft, broken)	610"	<u> </u>
Shale (black, compact, fracture		
slic ensided) " Shale (black, part sandy, fairly	210"	878° 0"
c.mpast)	713"	
Shale (black, broken)	018"	886° 0"
Shale (black, fairly compact, slickensided) "	3 16 11	
Shale (very soft, breden)	015"	690 ° 0"
Shale (co pact in part, inpart broken,		
fractured, coaly marks, slic ens)	10 0	900 0 0

"Joseph T. Landy" Lining Engineer MERRITT DRILL HOLE # 5 MERRITT DRILL HOLE 1

GOVERNMENT PRINTING BUREAU VICTORIA, B.C. MANUFACTURED AT

PLEASE ORDER BY NUMBER

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Merritt Diamond Drilling



Log of Hole #1

(Escated on NW quarter Sec. 14, Tp. 91, 378' N 35° E from Diamond Vale Hole #11) (Elevation 1986')

Boulder Clay	102		102'	0"
SANDSTONE, grey, med. to coarse grain, with shaly		. "		
streaks	14'		116'	_
SHALE, dark, sandy		6"	122'	
SANDSTONE, very coarse, poorly sorted, shaly streaks		0"	127'	
SHALE, grey, sandy		6"	131' 133'	
SANDSTONE, grey, coarse, coal marks		10"	134'	
COAL, bony	1'		136	
SHALE, dark, fissile, coal marks	_	-	147	
SANDSTONE, grey coarse, some fine sand and shaly streaks	77.	0"	156'	
ALE, black, leaf molds, few sandy streaks		6"	158'	
SANDSTONE, shaly, finely bedded		.0#	161'	
SHALE, dark to black, coal marks		0#	162	
SHALE, dark, sandy SANDSTONE, med. grain, with few shaly streaks	_	8"	167'	
SHALE, sandy, grey		6 n	169	
SANDSTONE, med. grain, shaly streaks, coal marks		2"	173'	
SHALE, black, coal marks, much fractured		õ#	180'	-
SANDSTONE, light grey, coarse		8"	183'	
SHALE, grey, sandy		6"	1891	
SANDSTONE, grey, coarse, poorly sorted	-	10"	2001	
MALE, dark grey, slightly sandy Dip 25°		0"	2091	
SANDSTONE, shaly Dip 150	41	6"	2131	6#
SHALE, dark grey, sandy, fractured	61	6"	2201	0#
SANDSTONE, med. to coarse, poorly sorted, few fine sand				
and shaly streaks	197	0"	2391	0"
SHALE, black, compact, leaf molds		6"	2521	6"
COAL		8"	2531	
SHALE, black, much fractured			2621	
INDSTONE, fine grain, shaly Dip 140		Οπ.	266	07
SANDSTONE, very coarse poorly sorted with some irregular		_		-
fine conglomerate bands. Abrupt contact below	w 14'	0π	280	0,4
SHALE, black, fractured		12"	283	
COAL			283'	
SHALE, black, fissile, leaf molds	91	-	292'	
SANDSTONE, med. to fine grained, somewhat shaly		0#	300	
SHALE, dark, fractured		0"	304'	
SANDSTONE, grey, shaly, coal marks	_	0"	3071	
SHALE, grey to black, fractured, 1" coal seam	-	6 ^R	314	
SANDSTONE, shaly, dark grey	₹.	6*	318	6
SANDSTONE, light grey, coarse, poorly sorted, irregular	2.21	O.M	330'	e #
conglomerate streaks		9#	3311	
CONGLOMERATE, fine		04	3581	
SANDSTONE, light grey, coarse, friable, poorly sorted		9# 0	364'	
SHALE, dark, sandy, with fine sand streaks <u>Dip 14</u> SANDSTONE, grey, medium grained, shaly streaks		6 *	368'	
CONGLOMERATE, fine, with coarse sand streaks and 2"	*	U	500	J
streak of sandy shale	5.5	0 =	373	6#
porede of panel prese		~	0,0	Y .

BANDSTONE, fine grained	11		3751	
ONGLOMERATE, fine		8"	375'	
NDSTONE, fine grained		0 "	376	
SHALE, light grey, sandy		0"	378	
SANDSTONE, light grey, coarse, few shaly streaks	71'	4" =1 =	450	
SHALE, dark grey, sandy, sand streaks, coal marks	11 '.	ნგ™ ვ <mark>გ</mark> ო	461	
SHALE, dark grey, coal streaks	J'	うま。 7 <mark>ま</mark> **	464 1	
COAL			468	4 2 " 3 "
SHALE	٥٠	3"	468	
COAL, with 2" shale parting		10"		
SHALE, black -	0 *	9#	4751	1"
COAL		3"		
SHALE, DIECK	-	4"		
COAL NATE block		9"		
)ALE, black COAL		15"		
SHALE, black, coal marks and several 1" coal seams	u.	21/2"	476 ' 485 '	
COAL		10"		
SHALE, black, coal marks	1 *	6#	4881	
COAL, boney	1'	6 "	489!	
SHALE, black, coal streaks		0"		
COAL		8"		
SHALE, black, fissile, leaf molds, coal marks		8 ⁿ		
COAL SHALE, grey, somewhat sandy		6!¹ 6"	5021 5071	
`NDSTONE, coarse, poorly sorted		0#		
MALE, dark grey to black, fractured and sheared		٥٣		
SANDSTONE, grey, med. grained with shaly and fine	•	•	-20	•
sand streaks. Dio 180		6*		
SHAIE, black, coal marks	_	07	550	
COAL		10"	555	
SHALE, black		2"	556	
COAL, some boney streaks NALE, black, fissile, coal marks, leaf molds		6 ¹¹	561 1	
SANDSTONE, shaly		0#	573	
SANDSTONE, light grey, medium grained with a few coarse	J	J	010	•
streaks, carbonized twigs	701	0#	6431	0#
SHALE, black, compact, coal marks	-3!	6"	646	
COAL, in part boney		0 4	650'	6 "
SHALE, black, coal streaks		67	652	
COAL, boney		10"		
SHALE, dark grey, sandy, fractured	3†	2 11 611	6561	
SANDSTONE, dark grey, shaly SHALE, grey, sandy, with many sand lenses, much fractured		o	657!	0 7
and high core loss		6 #	6671	Ощ ,
SANDSTONE, coarse, poorly sorted	21	0#	6691	
SHALE, dark grey, sandy, fractured	/9"	On	688	
SANDSTONE, grey shaly Dip 100	10!	0#	6981	04
SANDSTONE, grey, coarse		0 **	708	
SANDSTONE, med. to fine grained with shaly streaks		10"		
IALE, dark grey, with sandy streak		2	718!	_
SANDSTONE, shaly streaks DIP 80	_	8"		
SHALE, black, fractured	Z!	6 **	724'	۳.
			-	

LE, grey, sandy, cross-bedded sandstone streaks SMALE, black, compact SHALE, grey, sandy, with sand lenses	1'	6" 4" 6"	726† 728† 746†	0"
SANDSTONE, shaly, shale streaks dipping at high angles, vertical channeling SHALE, sandy, with sand streaks SANDSTONE, grey, poorly sized, with shaly streaks			766' 773'	_
dipping at high angles SHALE, grey, sendy	21		802° 804°	8"
SANDSTONE, shaly streaks at high angles SANDSTONE, light grey, coarse, poorly sorted	21	9"	811' 813' 820'	9"
SHALE, grey, sandy SANDSTONE, light grey, coarse CONGLOMERATE, med. to coarse, with few sand lenses	3'	0"	823' 849'	٥"
INDSTONE, grey, coarse, cross-bedded SHALE, black, coal marks	21	0"	857 ' 859 '	
SHALE, black, coal marks and soft black mud COAL SHALE, dark grey, compact	01	0") 6")	8621 8791	
SHALE, grey, sandy SHALE, dark grey, compact	4' 5'	0 n	883 ¹	. 0"
SHALE, grey, sandy, with sand streaks SANDSTONE, coarse, cross-bedded, shale streaks SHALE, dark grey, fractured	3'	0 #	890 ° 893 ° 900 °	0"

Remainder of log is on file at Victoria

"Wm. H. White"
Assoc. Mining Engineer
10/Mar/46

Log of Merritt Drill Hole #1 - 964'-995'

Breccia, fragments of shale and vol-					
canics	41	0"	-	9681	0"
Conglomerate, soft, muddy, coaly shale					
streaks	1'	87	-	9691	8"
Breccia, large volcanic fragments with					
muddy cement. Rock soft and friable		4 ¹¹	-	9761	0#
Felsite, light grey, fine grained.	2	0"		9781	0"
Greenstone, fine-grained, dark green,					
chloritic	7 1	0"		9851	0"
Greenstone, fine-grained, somewhat					
brecciated	3 '			9881	6 "
Shale, compact, indurated	1'	0"		9891	6"
Greenstone, pillowed, somewhat porphy-					
ritic	51	6"		9951	0 "

END OF HOLE #1

"Wm. H. White"

William H. White Assoc. Mining Engineer

MERRITT DRILL HOLE #1 - LOG 924' to 964'

SHALE, grey, badly fractures Abrupt, Irregular Contact, Dip 35°	31	4"	1'	2"	9271	4"	メ
ANDSTONE, grey, fine even-grained SANDSTONE, grey, fine even-grained,	01	8#			9281	0"	,
Scattered grains of sulphide	41	0"	1'	9#	9321	0"	
SHALE, grey, compact, somewhat sandy	01	11"	_	-	9321		-
SANDSTONE, grey, fine even-grained. Dip 290	01	1"			9331	0"	
SHALE, grey, compact, sandy	31	10"			936 *	10"	
SHALE, grey, compact, sandy. Fine sand							
streaks Dip 230. Seam of carbonate.	1'	2"			9381	0"	
SHALE, grey, compact, sandy	01	11"			9381	11"	
SANDSTONE, coarse, poorly sorted	01	1"			939†	0"	
SHALE, grey, compact, sandy. Fine sand seams							
Dip 31°	31	0"			9421	0"	
ETALE, grey, compact, numerous sand seams							
J Dip 290	71	-	1.1	0 "	9491		
SHALE, dark, badly fractured	21		0 *		952'	<u>0"</u>	
SHALE, black, coal marks, badly sheared	1'	10"	01	10"	9531	10"	
MUD or GOUGE SEAM, containing fragments of							
shale and a 2" seam of crushed COAL	0'	5"			954	3"	
BRECCIA, coarse fragments, sand cement.	2'	9"	01	6 "	957	0"	
MUD or GOUGE SEAM, containing fragments of							
breccia and fine flakes of shale	l'	0"					
COAL, about 1" of bony fragments and some				•	•		
coal mud recovered	0	- •	?)1	10"	958		
MUD or GOUGE SEAM, as above	1'	_		- 44	960		
LLE, ground up, containing some coal fines	0'	10"	0 1	4"	9601	10"	
DIORITE, medium coarse grained, containing							
biotite and horneblende; Sheared							
contact with shale dips 45°	01				961'	6 ¹¹	
SHALE, dark, badly sheared	0 *	6 "	0 1	1"	962	O _n	
CONGLOMERATE, poorly sorted with coarse							
sand lenses	21	0 11	0 1	2"	964'	0 22	
)						ر	(-

Note: Diorite logged at 961 is thought to be a boulder.

"Wm. H. White"

William H. White Assoc. Mining Engineer. I have checked back over the last hundred feet of Mandy's logging and find it similar to my own, possibly a bit more meticulous. However, there are minor differences. That which he logs as shale is in places arenaceous to the extent that under the glass individual grains can be seen. This material, which is dark, but not black in appearance may be what is referred to as "sandy shale" in the log of hole #11. Mandy's "sandy shale" is that in which sand streaks are quite evident to the naked eye. At present I am logging the slightly arenaceous shale as "Grey" or "dark", reserving the term "black" for the argillaceous shale. Another point: material which Mandy describes as "limey" is that containing patches and stringers of carbonate. In logging I am following the usual practise of tabulating the core missing in a separate column, where possible assigning the loss to its proper place in the section.

The textural features of these sediments indicates a variable environment of deposition such as would obtain in a periodically flooding river at grade or delta. Cross-bedding, abrupt changes in grain size, poorly sorted sands, abrupt contacts between sandstone and shale, and much evidence of channelling characterize the material. Probably the beds are quite lenticular, and correlation of individual horizons in these lower measures correspondingly difficult.

THIC	KNESS,	MISSING	DEPTE	· ×
SHALE, dark, soft, slickensided partings, 10 carbonate stringers. Abrupt irregular contact		5' 0"	910!	On
SANDSTONE, light, coarse-grained	4 ¹¹		910'	4.11
SHALE, dark, finely cross-bedded	4" 1" 5"		910'	_
SANDSTONE, light grey, coarse, cross-bedded Cross-bedding dips 700	5"		910'	
SHALE, dark with intercalated seams of fine l'sand.	0"		911'	10"
SANDSTONE, light grey, coarse (about lmm.) 2' with some grains of shale.	0"	7"	913	10"
Abrupt contact. SHALE, black with a few fine-grained sand 1' streaks interbedded.	2"	7"	915'	0"
	5"		918'	5#
COAL, bony, bright partings, friable SHALE, black, much fractured, slickensided l'	1½") 3½")	2"	918' 919'	
fragments. SHALE, black with a few sandy streaks and wavy bedding dipping about 45 degrees.	·	21 3n	924	0"
	!			\sim

Log of Hole No. 1 Contid.

Correction

Description	Thickness	Depth
Shale (dark, sandy in part) Shale (dark, sandy in part, crushed) Sandstone (light grey, limey) Shale (black, broken, slickensided) Shale (fractured, limey)	Actual - 3' 10" " 2" " 3' 3" " 1' 7" " 4' 9"	900 * 0 **

Log of Hole No. 1 cont'd.

Description	Thickness	Depth
Shaly sandstone (shale streaks vertical and steep angles cross bedding coaly marks, limey, fractured, slickensided.)	10' 0"	811' 0"
Sandstone (coarse; coaly fractures) Actual Shale (black, part sandy, broken,		011 0
coaly marks) " Sandstone (coarse Sandstone to fine	412"	
conglomerate) " Sandstone (" " " " "	1'0"	821' 0"
very soft) "	018"	
Sandstone (" " " " " "	217#	
Conglomerate to breccia (coarse, dark green, soft)	6127	831' 0"
Conglomerate to breccia (coarse.	0 - 2	001 0
greenish, broken, soft) " Conglomerate to breccia (coarse,	218"	834' 0"
greenish, broken, soft) "	1'0"	836 1 0 11
Conglomerate (very coarse; soft,	31311	0401 08
broken at end; mud seams) " Conglomerate " " " " " " " "	2114	840'0"
Mud from conglomerate (bit plugged	Z. T.	
and core probably washed) "	014"	8501 01
Sandstone (grey, coarse, fractured, slickensided) "	4'4"	
Shale (black, broken, fractured	* 4	
slicken) "	016"	8561 0"
Sandstone (fractured, slickensided) "	0'11"	
Shale (black, broken)	1'8"	
Shale (muddy, very soft)	1'8"	
Shale (coaly, muddy, very soft)	015"	
Shale (brown, borken, soft)	1'8"	864' 0"
Note 8' cave in hole from 856 - 864	_	
Mud thickened to remedy this.		
Shale (fairly compact, black, in part		
broken) "	418"	869' 0"
Shale (black, soft, broken) "	610"	
Shale (black, compact, fracture		
slickensided) "	2'0"	878' 0"
Shale (black, part sandy, fairly		
compact) "	713"	
Shale (black, broken)	0'8"	886' 0"
Shale (black, fairly compact,		
slickensided) "	3'6"	
Shale (very soft, broken)	0'5"	890' 0"
Shale (compact in part, inpart broken,	301 -	
fractured, coaly marks, slickens)	10' 0	900'0"
Handed over to W.H. White		

Log of Hole No. 1 (contd)

<u>Description</u> <u>T</u>	nickness	Depth
Sandstone (grey; coaly marks, shale streaks) Bed dip - 120	10' 0"	708 * 0 *
Sandy shale (coaly marks, compact		
Actual 1 8" Shale (dark, part sandy, coaly streaks)	21 6"(7	?)
Actual 3' 2"	5' 6"(7	. 1
(Note - grinding in core tube)	5 6 (1	• 1
Shale (black; coaly streaks, soft, broken)		
Actual 0' 9"	2' 0"(?	718' 0"
Shaly sandstone (grey) " 3'8"	31 9n	
pandy anate 0, 2,	0' 6"	
Shale (dark grey, fractured crushed,		
broken, slickensided) Actual 5' 4" Shale (" "	51 9 11	728' 0"
	8' 0"	736 ' 0"
Shale (" " compact) Shale (" " broken)	9' 0"	745' 0"
Sandy shale (sandy pockets; coaly marks; shale	1' 0"	746 ° 0"
streaks vertical and steep angles,		
cross-bedding; limey, fractured		
slickensided)	10' 0"	7561 011
Shaly sandstone (" ")	10' 0"	7661 011
Shaly sandstone (" "broken)	21 47	768' 4"
Shaly sandstone (" " " "	~ -	100 +
Actual 1º 8"	41 8"	7731 0"
Shaly sandstone (" ")	10' 0"	783' 0"
Shaly sandstone (" ")	8' 0"	791 * 0 **
Shaly sandstone (" ")	4' 6"	795 1 6 tt
Shaly sandstone (" ")	5' 6"	<u>801' 0"</u>

Log of Hole No. 1 (Cont'd.)

Description	Thick	ness	Depth 643	, •
To T H H	Actual 0' Actual 0' Actual 1' Actual 0' Actual 0' Actual 0' Actual 0'	6" (1 7" (2 5" (1 1" (1	'0")7647' '0")7649' '0")7650' '6")7652'	6 m 6 m 6 m 6 m 0 m 0 m
seams)	Actual 1' Actual 1'	31 n 2 n	<i>,</i>	
sided) Shale (coaly, very broken, crushed) Shaly sandstone (coaly streaks.	Actual 2'	12 " 5"	661' 0"	
Shale (partly sandy, coaly streaks) Shale (coaly, soft, broken, crushed) Sandstone (fine, in part coarse to fine	Actual 2'	2" 2" 72"		
		917 107	6681 01	
sided)	Actual 0'	11"	6691 97	
bands, slickensided, mainly compact, some broken, CROSS-BED) Shale (black, very broken, slickensided, coaly streaks) Coaly shale (very broken) Sandy shale (dark grey, coaly marks)	5' 0' 3'	8" 10" 6"	678' 0" 688' 0"	•
Shaly sandstone (grey, cross-bedding) Bed Dip - 110	5'	6 ¹⁷	693 6 6 7	
Shaly sandstone (grey, mud seam probably from Altamud circuit)	7 41	6 ¹¹	698° 0#	
		•		

Merritt Diamond-drilling Log of hole No. 1 (Contd).

Description	Thickness	Depth
Sandstone (grey, compact) Sandstone (grey, compact)	91 4" 8"	594' 4" 595' 0"
Note. started drilling with ALTAMUD circulation an 1 7/8" core.	_	
Sandstone (grey, compact, hard, fine to coarse and fine conglomerate) (som	e	
coaly streaks at $604 \frac{1}{2}$) Sandstone (grey, compact, hard, fine to	10' 0"	605' 0"
coarse and fine conglomerate) (some coaly streaks at $604\frac{1}{2}$)	10 ' .0"	615' 0"
Sandstone (grey, compact, hard, fine to coarse, and fine conglomerate)		
(some coaly streaks at $604\frac{1}{8}$) Sandstone	3' 1"	618' 1"
Sandstone " " " "	4' 11" 10' 0"	623 0" 633 0"
Sandstone " " " " "	91 01	6421 0"
Sandstone " " " " " slip at	rod1'0"	6431 0"

"Joseph T. Mandy"

Mining Engineer.

January 1946

Log of Hole No. 1

Description	Thickness	<u>Depth</u>
Shaly sandstone (compact some loose) Sandstone (grey, compact some loose) Sandstone (grey compact, coaly streaks)	1' 9" 3' 2" 10' 0"	571 10 575 0 0 585 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

January 1946

Log of Hole No. 1

Description	Thickn	<u>ess</u>	Depth	1
Conglomerate	01	1"	508	1"
Bed (?) Dip 55 ⁰ (possible cross-bed)				
Shale seam (slickensided)	0 *	011	508 '	114
Shale (black, slickensided, sheared, broken)	. 11	1147	510*	0"
Shale (CRUSHED AND SHEARED, sandy, limey,				
coal streaks, broken, disturbed ground)	51	0"	<u>515'</u>	0"
Sandstone (grey, soft, coaly streaks, broken)	6 t	0"	521'	0"
Sandstone (grey, soft, coaly streaks, broken, compact at end)	41		52 5 ¹	0#
Sandstone (grey, compact, shaly at end)	5†	0"	530	0"
Sandstone (grey compact, shaly streaks, broken at shale)	61	0"	536 1	0π
Sandstone (limey, <u>fractured</u> , soft broken)	2'	3"	538	
Sandstone (limev. fractured, soft broken)	1'	9"	540	0"
Shaly sandstone (broken at shaly bands: DIP 17		4"	547	
Shale (dark grey, limey, FRACTURED, broken Shale (black, coaly streaks broken)		2"	<u>548 *</u>	
(Actual 1' 6")		0" 6"	550 ¹ 5 53 ¹	
COAL (friable, broken) (Actual 1' 11") COAL (friable, very broken) (Actual 0' 62"	*-	4 ⁿ	5551	
Shale (dark brown, broken at Start)		8"	556 1	0"
Shale (dark brown) (Actual 0' 6") Shale (dark brown) (Actual 0' 3")	01	6 ⁿ	556	6 11
COAL (Sludge) (NO CORE) (Actual O. O.)	_	0"(?)		
COAL (Sludge) (NO CORE) (Actual 0' 0") COAL (very broken and slacked) (Actual 0'			561'	
Shale (coaly broken) (Actual 0' 52")	<u> </u>	0"	5621	
Shale (black, gouge seems, broken) (Actual 3' 1")	51	0 **	567°	0"
Bed. Dip 35°				
Shaly sandstone (slickensided at joints) (Actual 0 9 9)	1'	0"	568¹	
Shaly sandstone (compact)	2'	1"	570	, J _n

January 1946

Log of Hole No. 1

Description	Thickness	Depth
Shale (coaly, streaks) (Core loss,		
Actual, $1\frac{1}{2}$ ")	2"	475' 8"
COAL (friable, broken) (Core loss,	9#	470' 5"
Actual, 4") Shale (coaly streaks)(Core loss,	9	470 5.
Actual, 3")	1 2 "	476' 6 1 "
COAL (friable, broken) (Core loss, Actual, 114")	2 1 "	476 9"
Shale (coaly streaks) (Core loss,	-	
Actual 22")	3"	477' 0"
Shale (coaly streaks) (Core loss,		
· Actual 77)	8#	477 8"
Coaly shale (black, slickensided, very brok (Core loss, Actual 3')	en, 4'4"	482' 0"
(Core ross, Accdar 5.)	4. 4.	402 0
Note - 5' barrel replaced by 10'.		
Shale (coaly streaks) (Core loss-Actual 6")	10"	482' 10"
Shale, some very bony coal streaks (loose,	10	±02 10
slickenside, broken) (Core loss,		
Actual 2' 0")	31 011	485' 10"
COAL (friable, broken) (Core loss, Actual 4		486' 8"
Shale (coaly, broken, friable) (Core loss,		
Actual 7")	1' 6"	488 ' 2"
Bony coal (friable, very broken) (Core loss,		
Actual 6")	1, e.	4891 8"
Coaly shale (Friable, coal streaks)		
(Core loss, Actual 6")	1' 0"	490' 8"
COAL (friable, very broken) (Core loss,		
Actual 4")	0'8"	491' 4"
Coaly shale (coal streaks) (Core loss,	01.0#	4001 0
Actual 5")	0'8"	492' 0"
Shale (black, limey, slickenside, broken) Core loss, Actual 6' 6")	8' 0"	500 0 7
Shale (black, limey, slickenside, broken)	8 0	<u> 300 ° 0 ° </u>
(Core loss, Actual, 1' 10")	21 9"	502 0 0 7
COAL (friable) (Core loss, Actual, Q' 2")	01 67	5021 6"
Sandy shale (coaly and coal streaks)	0 0	
(Core loss, Actual 0' 8")	1'6"	504' 0"
Shale (light brown, limey, coal marks, brok		
(Core loss, Actual 0' 5")	1'0"	505 1 0 "
Shale (light brown, limey, coal marks, brok	en)	
(Core loss, Actual 1' 5")	2' 0"	507' 0"
Sandstone, part conglomerate, soft, broken)		
(Core loss, Actual 0' 9")	1' 0"	<u>508' 0"</u>

Note - Underlined depth is point of CORE PULL.

"Joseph T. Mandy"

·* 5

January 1946

Log of Hole No. 1

Description	Thickness	Depth
Seam of shale (brown, slickensided,		
broken	0분 #	396' 0 1 "
Sandstone (light grey; shaly streaks)	91 llan	406' 0"
Sandstone (light grey; shaly and coaly	2	
streaks)	10' 0"	4361 011
Sandstone (light grows shall and sold	10.0	<u>416' 0"</u>
Sandstone (light grey; shaly and coaly		
streaks)	10' 0"	<u>426' 0"</u>
_ Waterline froze		
Sandstone (light grey, shaly and coaly		
streaks)	5 †	431' 0"
Sandstone (light grey, shaly and coaly	•	101 0
	701	4471 08
streaks)	10'	<u>441' 0"</u>
Sandstone (light grey, shaly and coaly		
streaks)	31	444' 0"
Shaly sandstone (dark grey coaly streaks)		•
(Core Loss, Actual 6' 10")	7 1	451 ° 0 "
Shale sends (denk crow seels stroots)	4' 10"	
Shale sandy (dark grey, coaly streaks)	4. IU.	455 10"
(Core loss) Actual 9' 6"	_ `~	
Shale sandy (dark grey, coaly streaks))	5' 2"	461' 0"
(Core Loss)		
Note: 10' barrell replaced by 5' barre	11	
05-3- /31		
Shale (dark grey, sandy, coaly streaks,		_
slickensided, broken)	5 1 "	461' 5 3 "
COAL (friable, broken) (Core loss - Actual	5")1' 5"	462' 101"
Shale (dark grey, coaly streaks) Core Loss		20%
Actual 1	<u>") 1½" </u>	4631
Ont (fright broken) (Come less that	7 71 11 \ 7 1 0 10	
COAL (friable, broken) (Core loss, actual	<u>7늘"</u>)1' 9"	464 9"
Shale (dark grey, coaly streaks)	1' 7] "	466 ' 4 1 "
COAL (friable broken) (Core loss, Actual 3	<mark>눈") 7</mark> 돛개	467' 0"
COAL (friable broken) (Core loss, Actual 9	=	468 3"
Shale (see) - con 1 (see)	-/ ± , 3	408 . 9
Shale (coaly and coal seams) (Core loss	1-1	
Actual 2	[7] 3 n	<u>46</u> 8' 6"
Bony coal (slickensided, loose(Core loss,		
Actual 6	") 1'0"	469' 6"
COAL (friable) (Core loss, Actual 22")	6"	470' 0"
	_	
COAL (friable, broken) (Core loss, Actual (Shale, (coaly) (Core loss, Actual 2") COAL (friable, broken) (Core loss, Actual 2	o"/ 1' 4"	471 4
Shale, (coaly) (Core loss, Actual 2")	l"	471' 5"
COAL (friable, broken) (Core loss, Actual)	1'0")2' 5"	473' 10"
Shale (coaly, coal streaks) (Core loss,	-	
Actual 1")	2".	4741 OH
COAL (broken) (Core loss, Actual 12")	4"	474' 4"
Shale (coaly streaks) (Core loss, Actual 7	") 9n .	475' 1"
COAL (broken, friable) (Core loss, Actual	l 1") 3"	475' 4"
Shale (coal streaks) (Core loss, Actual 1"	2"	475' 6"
		1.0
(Note - Donth fimme undenlined manuscrite	nnint .a	·
(Note - Depth figure underlined represents	horur oi con	
		*J.T.M.

Diamond-drilling

<u> Merritt</u>

Correction

Bed dip at 333' 2" should read 15° Bed dip at 364' 2" should read 14° Bed dip at 365' 10" should read 14° Bed dip at 376' 4" should read 15°

January 1946

Log of nole No. 1

	<u>Description</u> <u>T</u>	hick:	ness	Deptl	<u>n</u>
	Shaly sandstone (dark grey fine)	1'	2"	3 35†	10"
	Bed Dip140				
	Sandstone (coarse, compact, grey) Sandstone (dark to light grey, fine to medium fine, shale streaks,		2"	<u>366'</u>	
	soft) (core loss)(2° 3")Actual Conglomerate (fine, light grey) Sandy Shale (dark grey, slickensided) Conglomerate (fine, grey, soft) Core loss	1'	6" 0" 2½"	368' 369' 369'	611
	Actual (3') Sandstone (fine; shaly streaks) Conglomerate (fine, soft) Sandstone (fine; dark shaly streaks) Sandstone (shaly streaks; coaly spots)	3; 1,	9½" 8" 6" 4" 4"	373' 375' 375' 376' 376'	2" 8"
	Bed Dip15°				
"	Shale (dark grey; partly sandy, slickensided Shaly sandstone (in part sandy shale dark) 1'	9#	3781	1"
	grey)	31	8"	381'	9#
	Sandstone (in part shaly streaks, grey, medium fine)	1'	2"	382	11"
	Sandstone (in part shaly streaks, grey, medium fine) Sandstone (in places shaly streaks, medium	3 !	1"	<u> 386 '</u>	
	fine to coarse coaly streaks)	10'	0"	396 t	

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January 1946

Log of Hole No. 1

Description	Thickness	ss Depth
Sandy shale (dark grey) Sandstone (grey, coal marks) Shaly sandstone (dark grey, coal marks)	3' 1' 6' 1' 2'	
Shale (black, limey in places and slicken- sided) SOFT COALY SHALE (loose; Core Loss)(2") Shale (black, limey, broken, slickensided) SOFT COALY Shale (loose, Core Loss) (8") Shaly sandstone (dark grey, coal marks) Shaly sandstone (dark grey to grey) Sandstone (light grey, coarse (Core Loss Sandstone (light grey, soft, coarse (Core Loss) Sandstone (light grey, soft, coarse (Core loss) Sandstone (light grey, soft, coarse (Core conglomerate) Conglomerate (light grey, fine) gradational Shaly sandstone (dark grey, micaceous coal	7' 1' 10 1' 9' 13 4' 2' 13 6' 2' 7' 6' 5' 7'	"(?) 321' 11" "(?) 324' 6" " 330' 11" " 331' 6"
Shaly sandstone (dark grey, micaceous coal spots Bed Dip150		·
Sandstone (light grey, soft) Shaly sandstone (dark grey, micaceous, coaspots) Sandstone (light grey, coarse, soft)	ly 2 9	
Sandstone (light grey, coarse, soft 1/8" s. band Sandstone, light grey, loose, core loss (13") Sandstone (coarse, soft, light grey) Sandstone (coarse, soft, light grey) Sandstone (coarse, soft, light grey 1" lon. Shale (black, limey, slickensided, broken) Shale, sandy (dark grey) Shaly sandstone (grey) Shale (slightly sandy, dark grey) Sandy shale, shale seam (slickensided) Sandy shale (dark grey) Bed Dip14°) 10' 0 1' 6 10' 0 1' 1 4 9 2' 1 1' 9	" 346' 0" " 356' 0" 1½" 357' 11½" ½" 358' 4" " 359' 1" 1" 360'
Sandstone (coarse compact	6	" 364¹ 8"

January 1946

Log of Hole No. 1

Description	Thickness	Depth
Shale (black, compact) Shale (black, compact) COAL (broken, large pieces NO CORE (Probably Mud seam; see below) Note - 10' core barrel replaced by 5' barrel.	10' 1' 6" 8" 1' 10"	253
Black Mud (coaly) (Probable core loss) Shale (black, limey, slickensided) Mud seam (black shale gouge) Shale (black, limey, slickensided) Shale (black, limey, partly sandy, broken Mud (blackish brown) (drill sludge settled in hole '(2")	d .	255' 4½" 257' 5" 257' 5½" 258' 1½" 260'
Shale (black, compact) Shaly sandstone (Dark Grey)	21 9" 31 8"	262' 9" 266' 5"
Bed Dip 12°		
Sandstone (grey, coarse)	7 ¹¹	2671
Bed Dip 140		
Sandy shale (dark grey) Sandstone (coarse, coaly streaks, grey) Conglomerate (fine; in part coarse sandsto Sandstone (coarse; in part conglomerate,	2' 11" one) 2' 4" coal	267' 1" 270' 272' 4"
streaks) Sandstone (coarse; in part conglomerate,	7' 8"	<u>1082</u>
streaks) Shale (black compact) Shale (black compact, slightly sandy). Shale (limey, black broken, slickensided) COAL (brittle, broken)	1' 1' 1 2 " 7"	282
Shale (black compact) Shale (black compact) Shale (black, limey, streaky, slickenside	7' 1" d) 7"	285† 292† 1* 292† 8*
Shaly sandstone (fine grey) Shaly sandstone (grey, dark shale streaks Sandstone (grey medium fine)	2' 4") 3' 3" 2' 3"	295† 298† 3† 300† 6†
Shale (dark brown, broken slickensided) (Core Loss about 6")	4' 0"	304' 6"

"Joseph T. Mandy"

Mining Engineer

January 1946

Log of Hole No. 1

Description	Thickness	Depth
Bed Dip 10°		
Shale (black, soft Sandstone (grey, micaceous black shale streaks and binds inpart fine	3 n	221'
and coarse) Sandstone (grey, micaceous black shale streaks and bands in part	10'	231'
fine and coarse) Sandy shale (black, streaks and bands of	51 7"	236 7"
grey sandstone) Shale (black, compact)	1' 10" 2' 7"	238† 5 " 241†

Merritt Diemond Drilling

January 1946

Log of Hole No. 1

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Description	Thic	kness	Dept	<u>h</u>
Shale (brownish black, bitumenous broken in places, coaly streaks) Shale (dark brown friable, broken) Sandy shale Sandstone (grey, brown shale streaks) Shale (brown, friable broken) Shale (brown, sandy) Shale (bitumenous, black) Sandy shale (dark grey) Sandstone (shaly streaks, coal spots, broken Shale (sandy, black, bitumenous, broken) Sandstone (shaly, broken) Sandstone (shaly, coal spots, broken) Shale (black, bitumenous, sandy in places coaly spots, very broken, slicken— sided, local streaks of bentonite (?)	2: 1: 0: 1: 4: 2:	6" 6" 4" 8"	154' 156' 156' 160' 161' 162' 167' 170' 171'	6" 6" 6" 10" 6" 2"
some core loss Shaly sandstone (broken at end) Sandstone (friable, limey, broken-core loss) Sandstone (grey, medium fine) Sandstone (grey, medium fine, coal spots)	6 '	9" 9" 8" 2"	179' 180' 180' 181' 183'	2"
Bedding Dip 34°				
Shale (limey, slickensided) Sandy shale (greyish brown)	2† 3†	4" 2"	186' 189'	
Bedding Dip 420				
Sandstone (coarse, very friablecore loss) Sandstone (coarse, very friablecore loss)	9; 1;	10"	191° 200°	
Bedding Dip' 30°				
Shale (dark brown, bitumenous	1'		2011	•
compact - good core) Sandstone, shaly, micaceous (grey) Sandstone, shaly, micaceous (grey)		10# 2# 3#	208' 211' 213'	
Bed Dip 15°				
Shale (black, limey, slickensided partly sandy, broken)	6 1	9# ,	2201	
Bed Dip 12°		•		
Sandstone (grey, shaly streaks)		9#	2201	9"

January 1946

Log of Hole No. 1

(Located 378' N 35° E from hole No. 11 Diamond Vale @ 10' higher)

Description	Thickness	Depth
Boulder Clay Broken loose bedrock coarse grey sand-	102'	
stone, sandy shale, shale Shale (dark buff) Shaly sandstone (grey) Sandstone, (fine, grey) Shaly Sandstone (grey, streaky)	3' 0' 3" 1' 9" 1' 1" 0' 2"	105' 105' 3" 107' 108' 1"
Coarse sandst. (grey, streaky) Shaly sandstone (grey, streaky) Sandstone (coarse grey)	2' 3" 0' 1" 1' 5"	108' 3" 110' 6" 110' 7"
Sandstone (fine, grey) Sandstone (coarse, grey)	2' 6"	112' 114' 6" 116'
BEDDING HORIZONTAL '		
Sandy shale (dark brown) Sandstone (very coarse, fine conglomerate)	6 [†] 7 ^{††} 0 [‡] 5 ^{††}	122' 7" 123'
Shaly sandstone (streaky, grey) Sandstone (very coarse, fine conglomerate)	0' 1" 4' 5"	123' 1"
Shale (buff; in part sandy and grey) Sandy shale (grey, streaky)	2' 6" 1'	130' 131'
Sandstone (grey, coarse) Sandstone, shaly (bitumenous Streaks)	21 2" 01 8"	133 * 2"
COAL (bony, broken, streaky) Shale (dark brown, bitumenous, broken)	0' 10" 1' 4"	134' 8" 136'
Sandstone, shaly (grey, bitum. streaks, brok Sandstone (coarse, grey)		139' 6" 143'
Shaly sandstone (streaky) Sandstone (coarse, grey)	01 7" 01 5"	143' 7" 144'
Shaly sandstone (streaks of sandy shale) Shale (brownish black, bitumenous broken	31 4"	147 4"
in places, coaly streaks)	31 8"	151'

PROGRESS
NOTES
DRILL
HOLE

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Progress Report - Merritt Diamond Drilling Feb. 22nd. to 24th.

Feb. 22nd: Pulling Casing (Day Shift only - 8 men)

Feb. 23rd: Pulling stand pipe and preparing for move (One shift - 7 men)

Feb. 24th: Not working.

William H. White
Assoc. Mining Engineer

Progress Report - Merritt Diamond Drill Hole #1 Feb. 19th to Feb. 21st.

Night Shift: Cored 964'-968'; 968'-978' Graveyard Shift: Cored 978'-988' Feb. 19th:

Feb. 20th: Day Shift: Cored 988'-995' END OF HOLE

Night Shift: Pulling rods and casing

Day Shift: Pulling casing (8 men) Feb. 21st:

No night shift.

PROGRESS REPORT, MERRITT D.D. HOLE #1 - Feb. 17th to 19th

Feb. 17th: Night Shift: Cored 924 - 928; 928 - 932.

Graveyard : " 932 - 942

Feb. 18th: Day Shift : Cored 942 - 952

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Night ": " 952 - 957 Graveyard: " 957 - 960

Feb. 19th: Day Shift: Cored 960 - 964; drilling.

Progress is slow due to blocky ground and short pulls, but core recovery is satisfactory.

"Wm. H. White"

William H. White Assoc. Mining Engineer

Merritt Drilling

PROGRESS REPORT - Feb. 16 - 17th.

Feb. 16th - Day Shift: Cored 890 - 900 Night Shift " 900 - 910 Graveyard " 910 - 915

Feb. 17th - Day Shift: Cored 915 - 920; 920 - 924

Pump trouble remedied.

A new type of bit was tried on Feb. 17th. This has the water holes entering the inner surface of the bit about 2" up from the cutting edge, the object being to allow a build-up of pressure if the bit becomes blocked. The block at 924' was quite definite; the pressure increase caused the overflow valve on the pump to release. However this cannot detect blockage and grinding in the core-tube, because the mud circuit does not pass through the tube.

The "Altamud" system appears to accomplish its chief purpose of preventing caving, though it is doubtful if it affects core recovery one way or the other. The use of "Altamud" slows up drilling to some extent because of more frequent break-downs of pumping equipment, difficulty of handling muddy rods, and the necessity of periodically diluting or replacing the mud circuit. The mud has not been found a serious hindrance in examining the core.

Mr. Johnson expects trouble with the drill rig if this hole is continued to 1500'. According to him, he was told to make the set-up for a 600' hole, which he did. The foundations were laid on frozen ground and no mud-sills laid to anchor it. Now, with the ground thawing, and with over twice the string of rods that he figured on, Mr. Johnson is doubtful about the foundations holding.

Attached hereto is the log from 900' to 924'.

W.H. White, Assoc. Mining Engineer.

Progress Report - Feb. 12th - Feb. 16th (Noon)

Feb. 13th - Day shift - cored 801 - 811.

Night " - " 811 - 821.

Graveyard - " 821 - 831; 831 - 834.

Feb. 14th - Day shift - " 834 - 836; 836 - 840; 840 - 850

<u>Night</u> " - " 850 - 856; 856 - 864.

<u>Graveyard</u> - " 864 - 869

Feb. 15th - Day shift - Thickening mud to stop caving above 864.

Rods down to 6" of bottom. Cored 869 - 878.

Night " - Cored 878 - 886.

<u>Graveyard</u> - " 886 - 890

Feb. 16th - Day shift - " 890 - 900.

Feb. 16th Handed over to W.H. White.

"Joseph T. Mandy"

Mining Engineer

Progress report Feb. 9th - Feb. 12th

- Feb. 9th Day shift Engine arrived by express. Installing engine; running-in engine.
 - " Night shift Drilling; cored 698 708
 - " " <u>Graveyard</u> Cored 708 718

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- Feb. 10th Day shift Cored 718 728.

 Note Core loss between 708 728

 thought possibly due to wash at grinding edge of mud bit. Dropped Altamud
 circulation and resumed water circulation test for improved core recovery.
 - " Night shift Cored 728 736; 736 746.

 Note Noted caving at 682' after last core pull.
 - " Graveyard Broke brakehandle bolt when letting rods down.
- Feb. 11th Day shift Repairing brake handle. Preparing mud circulation for resuming Altamud circulation. Drilling.
 - " Night shift Core 746 756; 756 766.
 - " " Graveyard Rods plugged in hole 8' from bottom.
- Feb. 12th Day shift Cored 766 773
 - " Night shift Cored 773 791
 - " " Graveyard Cored 791 801.

Progress Report Wed. Feb. 6th. (Noon) - Feb. 8th.

Wed. Feb. 6th. - Day Shift (contd) - Cored 643 - 653.

" " " - Night Shift - Cored 653 - 661; 661 - 668

" - <u>Graveyard</u> - Cored 668 - 678.

Thurs. Feb. 7th. - Day Shift - Cored 678 - 688

" " " Night Shift - Drilling

" Graveyard - Cored 688 - 698. - Drilling to 703.
Oiling system on engine failed.
Cylinders frozen.

Fri. Feb. 8th. - Day Shift - Dismantling engine; awaiting arrival of new engine.from Vancouver.

"Joseph T. Mandy"

Note: The advantages, if any, through the use of Altamud, are doubtful. It may prevent caving, but this cannot be proved. It does not appear to materially improve core recovery in coal or coally ground, in this instance. Through the accumulation of sludge in the closed circuit sludge mud is introduced into the core and obscures the possible occurrence of mud or gouge seams and also possibly adulterates coal fines recovered in the core. The technique or its use is however still experimented.

"J.T.M."

Progress Report Jan. 24th - Wed. Feb. 6th (Noon)

Thursday, Jan. 24th. Day Shift - cored 585 - 595.

Note - Rods stuck badly by cave.

Danger of losing Rods and hole.

Extracted with difficulty. Unwise to continue unless condition remedied.

Cementing indicated between 500 and 570 as sufficient to meet condition.

Wired this requirement to Victoria.

Friday, Jan. 25th. Day Shift - Rods put down ready for washing down preparatory to cementing 500 to 570. Washing. WIRE RECEIVED instructing to REAM and CASE hole Top to Bottom. Rods withdrawn and reaming started.

" Night Shift - Reaming.
" Graveyard - Reaming.

Sat. Jan. 26th. Day Shift - Frozen up.

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Note. Saturday, Jan. 26th. - Thurs. Jan. 31st - Reaming to 570'
Friday, February 1st. Day Shift - Placing casing. Sargent arrived.

Night Shift - "

Graveyard - " clutch broke.

Sat. February 2nd. Day Shift - Repairing clutch.

Sunday, February 3rd - Waiting for Altamud equipment

Monday, February 4th. Day Shift - Waiting for equipment. Washing hole.

Night Shift - Changing pump for Mud.

Tuesday, February 5th Day Shift - Installing Altamud equipment. Resumed drilling at 3 p.m.

" Night Shift - Cored 595 - 605; 605 - 615.

" Graveyard - Cored 615 - 623; 623 - 633.

Wednesday, February 6th Day Shift - Cored 633 - 643; drilling.

"Joseph T. Mandy"

Mining Engineer

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Progress Report Jan. 22nd (noon) - Jan. 23rd

<u>Tuesday, Jan. 22nd - Day shift</u> - (Noon) - cored 508 - 510, cored 510 - 515.

Night Shift - cored 515 - 521; 521 - 525; 525 - 530

Graveyard - cored 530 - 536; 536 - 540; 540 - 548a.

Wednesday, Jan. 23rd - day shift - cored 5482 - 553; 553 - 556; 556 - 557' 6"; 557' 6" - 559.

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Note: Previous small evidence of caving had become aggravated at 550' pull. Rods badly jammed in hole at 559 pull. Cave slough increasing after each pull, 4' cave in bottom after 559 pull. Short pulls required to try and get core recovery. Cave originating about 515'.

Night shift - cored 559 - 562.

(After 562 8' of core in bottom)
(changed to reamless collar on bit)

cored 562 - 568. (Drilling)

<u>Graveyard</u> - cored 568 - 575; 515 - 585; drilling.

"Joseph T. Mandy"

Progress Report Jan. 19th (noon) - Jan. 22th (noon)

Saturday, Jan. 19th - Day shift - cored 386 - 396 drilling.

}

Night shift - cored 396 - 406; cored 406 - 416; 416 - 426.

Graveyard - cored 426 - 431 Waterline froze.

Saturday, Jan. 20th - Day shift - Working on water line.

Pump trouble.

Drilled 4'

Night shift - cored 431 - 441 cored 441 - 451

Graveyard - cored 451 - 461; drilled to 462

Monday, Jan. 21st. - Day shift - cored 461 - 463; 463 - 467; 467-468' 6"; 468' 6" - 470; 470 - 474; 474 - 475' 6".

Night shift - cored 475' 6" - 477; 477 - 482; cored 482 - 492

<u>Graveyard</u> - cored 492 - 500 cored 508 - 505

Tuesday, Jan 22nd - Day shift - cored 505 - 508; drilling;

Merritt Drilling

Progress Report Jan. 17th - Jan. 19th (Noon)

Thurs. Jan. 17th - Day shift - cored 241' - 251' (slow drilling in tough compact shale) cored 251' - 255' (2' 2" core recovered - see log) 10' core barrel replaced by 5' barrel.

Night shift - cored 255' - 260' (replaced 10' core barrel. cored 260' - 270'. Drilling.

Graveyard shift - cored to 280'.

cored 280' - 285' (10' barrel)
drilling.

Friday, Jan. 18 - Day shift - cored 285' - 295'. cored 295' - 304' 6"; cored 304' 6" - 314' 6".

Night shift - cored 314' 6" - 324' 6".

cored 324' 6" - 334' 6"

cored 334' 6" - 344' 6"

cored 344' 6" - 346' (soft sandstone)

Graveyard shift - cored 346' - 356' cored 356' - 366'

Saturday, Jan. 19th - Day shift - cored 366' - 376' cored 376' - 386' (Noon).

Note - Now operating 3 shifts and progress is about 50' - 60' per day at the present depth.

"Joseph T. Mandy"

Mining Engineer

Note - Mr. James Dickson, Chief Inspector of Mines, has requested from Mr. Hughes (Inspector), information re the Merritt drilling. Please convey it to him - results etc.

"J.T.M."

Merritt Drilling

Progress Report Jan. 15th noon - Jan. 16th

Tues. Jan. 15 noon - 4 p.m. cored 151' - 161' drilled to 6 166'

<u>Tues. Jan. 15th night shift</u> - cored 161' - 171' cored 171' - 191'.

Wed. Jan. 16th day shift - cored 191' - 201' cored 201' - 211' drilling 211'+

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Wed. Jan. 16th night shift - cored 211' - 221' cored 221' - 231'; cored 231' - 241'

Note Mr. Hall of Boyles visited operation. Suggested it might be advantageous when coring coal to use a special "Mud" preparation pumped into the hole. This will require a reduction in core size by ½ inch, but would assure better core recovery. As the local coal (Diamond Vale) and the streak already intersected (134' 8") is characteristically very friable, and may be hard to core, the "Mud" method may help. The formation generally cores well and I do not think the core recovery of this would be adversely effected by a core reduction of ½". Mr. Hall will contact you about this.

January 1946

Merritt Drilling

Progress Report Jan. 14th - Jan. 15th (Noon)

Mon. Jan. 14th

Day shift - Casing placed to 105'. Drilling in bedrock. Hole cored to 120'.

(two lengths of 10' each)

Night shift - Drilling in Bedrock. Hole cored to 141'. (two lengths of 10' and 11'.)

Tues. Jan. 15th

Day shift to noon - Drilling in bedrock.

Adjusting tripod. Hole cored to 151'

(one length of 10'.)

Note For details of core, see attached log.

)

Progress is being made at a rate of 2 lengths of 10' core for the two shifts working. This is 40' of core per day. Unless something unforseen happens, this will be the average of progress for two shifts.

Regular progress reports will be mailed.

Status of Hole

6" standpipe 0' - 30' 4" standpipe 30' - 102' 3" casing 0' - 105'

"Joseph T. Mandy"

Mining Engineer

Log of hole to 102'

(Week Jan. 7th - 12th)

		Thickness	Depth
Clay and boulder clay		102'	102'
Soft and broken bedrock ((?)	3'	105
Hard bedrock	(3)	21	107

Note - 102' to 107' will be verified by core to be pulled Londay, Jan. 14th.

"Joseph T. Mandy"

Progress Report (Week Jan. 7th - 12th)

Mon. Jan. 7th	At end of shift (4 p.m.) reached 75' in boulder clay overburden. 4" standpipe.
Tues. Jan. 8th	In boulder clay overburden. 2 shifts of 4 men each. 4" standpipe.
wed. Jan. 9th	In boulder clay overburden. 2 shifts of 4 men each. 4" standpipe.
Thurs. Jan. 10th (4" standpipe to 102')	In boulder clay overburden. 1 shift of 4 men. Loose Bedrock hit at 102. New drill arrived. Commenced installation of drill.
Fri. Jan. 11th	Installing new drill and erecting camps. 1 shift 8 men.
Sat. Jan. 12th	Casing installed to 102'. Drilling in Bedrock 102' to 107'. (Rate 1' in 18 mts., probably sandstone or

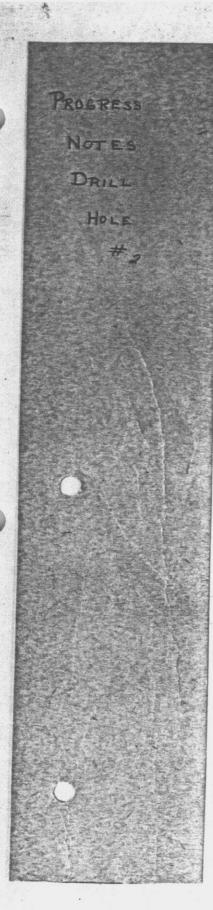
sandy shale.)

Status of Hole

6 "	standpipe	O -	30 '
4"	n" -	30 *-	102'
3"	Casing	0 -	102

"Joseph T. Mandy"

MERRITT DRILL HOLE #2



FINAL PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 15 - 17th

April 15th - Night Shift: 893° to 903°

April 16th - Day Shift : 903' to 913' Night Shift: 913' to 923'

April 17th - Day Shift: 923' to 937'
Night Shift: 937' to 944'. Pulled rods in 10's.

HOLE COMPLETED

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 12th to 15th

April	12th;	Night Shift:	Cored	831*	to	838*
A pril	13th:	Day Shift : Night Shift:	Cored Cored	838° 848°	to to	848 ° 858 °
April	14th:	Day Shift : Night Shift:	Cored Cored	858° 870°	to to	870° 879°
April	15th:	Day Shift :	Cored	8791	to	893*

"Wm. H. White"
Assoc. Mining Angineer.

PROGRESS REPORT - MERRITT DRILL HOLE #2

April 10th to 12th

April 10th - Night Shift: Cored 764' to 784' Cored 784' to 801' Graveyard :

April 11th - Day Shift :

Cored 801' to 811' Cored 811' to 818' Night Shift:

Not working Graveyard :

April 12th - Day Shift : Cored 818' to 831'

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Note: Due to labor shortage, work will continue temporarily on a basis of two ten-hour shifts per day.

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 8th to 10th

April 8th. - Night Shift: 680' to 700' Graveyard : 70 1 to 716

- Day Shift: Night Shift: Graveyard: 716' to 726' April 9th.

726' to 737' 737' to 752'

April 10th. - Day Shift: 752' to 764'

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 7th. - 8th.

April 7th. - Day Shift : Cored 632' to 638' Night Shift : Cored 638' to 647' Graveyard : Cored 647' to 667'

April 8th. - Day Shift : Cored 667 to 680

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 3rd, to 6th.

April 3rd. - Night Shift: Cored 472' to 486' Graveyard: Cored 486' to 497'

April 4th. - Day Shift: Cored 510' to 523' Graveyard: Cored 523' to 542'

April 5th. - Day Shift: Cored 542' to 553' Night Shift: Cored 553' to 568' Graveyard: Cored 568' to 583'

April 6th. - Day Shift: Cored 583' to 583' Night Shift: Cored 593' to 613' Graveyard: Cored 613' to 632'

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".m. H. /hite"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 1st. to 3 rd.

April 1st. - Day Shift: Cored 387° to 405°
Night Shift: Cored 405° to 426°

April 2nd. - Day Shift: Cored 426° to 430°
Night Shift: Cored 430° to 436°
Graveyard: Cored 436° to 456°

April 3rd. - Day Shift: Cored 456° to 472°

"W.H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 50th to Mar. 51st.

Mar. 30th: Day Shift: Cored 326 to 346 Night Shift: Cored 346 to 375

Mar. 31st: Day Shift: Cored 375* to 387* Night Shift: Not working

"Wm. H. White" Assoc. Mining Engineer

PROGRESS REPORT - MERRITT DRILL HOLE #2 - 27th Mar. to 29th Mar.

Mar. 27th - Night Shift: Cored 253' to 274'

Mar. 28th - Day Shift: Cored 274* to 289*

Night Shift: Cored 289* to 295* (Got rods stuck in hole)

Mar. 29th - Day Shift: Cored 296 to 302 (Pump trouble remedied)

Night Shift: Cored 302' to 326'

"Wm. H. White"
Assoc. Mining Engineer.

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 25th to Mar. 27th.

Mar. 25th - Day Shift: Pulled casing and confirmed BEDROCK at 203* Drove pipe to 203*.

Night Shift: Drilled casing down to 213 in loose and broken sandstone.

Mar. 26th - Day Shift: Cored 211 - 217'. Rearranged drilling setup.

Night Shift: Setting up equipment for using mud. Cored 217 - 224

Mar. 27th - Day Shift: Cored 224 to 243 up to 6 PM.

Note: Starting Lar. 27th two 12 hour shifts per day will operate.

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 20th to Mar. 24th.

Mar. 20th - Day Shift only: Washing sand and gravel out of pipe Drilling casing to 195° in sand and fine gravel.

Mar. 21st - Day Shift: Driving pipe to 193 where it was stopped by a layer of larger boulders.

Night Shift: Washing sand out of pipe, trying to chop boulders ahead of pipe.

Mar. 22nd - Day Shift: Drilling casing down to 202 in fine sand with large boulders, some of which were shale with coal streaks.

Night Shift: Attempted to blast thru casing but had a misfire probably due to hole caving and shorting leads when casing was drawn back. Remainder of shift spent chopping out the hole again.

Mar. 23rd - Day Shift: Drove pipe to 198'

Night Shift: Drilled casing ahead to 208'. In the last five feet the ground was hard and smooth with fine grey clayey mud cuttings coming back - indicates either bedrock or a clay hard-pan.

Mar. 24th - Neither shift working.

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Note: Progress of 123', from depth 75' to 198' required 24 shifts, exclusive of time wasted on testing blanc Method.

Progress of the last 12' required 6 shifts. The slow advance has been due to the hole caving ahead of the pipe and the necessity in consequence of frequent chopping.

"W.H. White"

Assoc. Linkny Angineer.

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 15th. to 19 th.

Mar. 15th. - Day Shift of 6 men
Installing mud equipment for 'Blanc Method'
No progress.

Mar. 16t. - Day Shift of 6 men
Installing mud equipment and testing 'Blanc
Method'. No progress.

Mar. 17t. - Day Shift of 5 men
Testing 'Blanc Method'
No progress.

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Mar. 18th. - Day Shift of 5 men

Most of the day spent removing mud equipment
preparing to resume driving operations, and
in jaring the pipe losse. During the last
two hours of the shift the pipe was driven 2
feet, in ground that had been drilled before
the Blanc experiment was made.

Mar. 19th. - Day Shift of 5 men
Pipe driven to 186° in coarse aand and gravel.

Note: Due to the difficulty of turning the pipe while driving, and the shortage of crew it is possible only to run one shift per day.

"".H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 12th to 14th

Mar. 12th. - Day Shift: Drilled casing to 177 feet.

Drilled core barrel down to 181 feet
in coarse gravel.

Night Shift: Re-threaded 4" casing to be used as
standpipe.

Mar. 13th. - Day Shift: Removed all casing; fixed waterline which was frozen; and prepared to resume driving pipe.

Night Shift: Not working (3 men off sick)

Mar. 14th. - Day Shift: Drove 4" pipe to 178 feet (4-man crew)
Night Shift: Not working.

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - MAR. 10th and 11th.

Mar. 10th - Day Shift: Drove pipe to 164 in sand. Night Shift: Not working.

Mar, 11th - Day Shift: Drilled casing down to 170' Gravel
Drilled core-barrel down to 175'

Night Shift: Drilled core-barrel down to 1774

"W.H. White"

Merritt Diamond Drill Hole #2

Progress Report - Mar. 7th to Mar. 9th, inclusive

- Mar. 7th Day Shift Changed pump in forenoon.
 Drilled to 132 and blasted boulder clay.
 - Night Shift Drove pipe to 1321.
- Mar. 8th Day Shift Drove pipe to 138' Boulder clay.
 Night Shift Drove pipe to 149' Boulder clay.
- Mar. 9th Day Shift Drove pipe to 159' Material is medium to coarse sand with some pebbles.

 (7 men required on this shift to turn pipe while driving; the sand seems to bind the pipe)

Night Shift - Not working.

"Wm. H. White"

Progress Report - Merritt Drill Hole #2 - March 4th to March 6th.

Mar. 4th. - Day Shift Drove pipe to 76° in clay (depth 75° at noon)

Mar. 5th. - Day Shift Drove pipe to 96° in clay and gravel

Mar. 6th. - Day Shift Drove pipe to 116° in clay, some boulders.

Drilled to 126° in clay and gravel

Lriving pipe to 126*

(

Night

"Vm. H. White"
Assoc. Mining Engineer

PROGRESS REPORT of MERRITT DRILL HOLE #2

27/Feb. to 3/March

- 27/Feb. Day Shift: Collared Hole #2
 Night Shift: Drove 6* pipe Depth 30* in clay
- 28/Feb. Day Shift: Driving 4" pipe Night Shift: " - Depth 45° in boulder clay
 - 1/Mar. Day Shift: Driving 4" pipe
 Night Shift: " Depth 55' in boulders and
 gravel beds.
 - 2/Mar. Day Shift: Driving 4" pipe- Depth 65' in coarse sand Night Shift: No working
 - 3/Mar. Day Shift: Not working Night Shift: Driving 4" pipe

"Wm. H. White" Assoc. Mining Engineer MERRITT DRILL HOLE #2

LOG OF HOLE #2, Continued

SANDSTONE, de	ark grey, shaly	1	1	5"	-	8941	5"
SANDSTONE, gr	cey, medium grained, creaks	Dip 310	41	0"	-	8981	5"
SANDSTONE, 11	ight grey, medium to rained. Few carbonat	coarse	Q t	7 ti	_ ,	9071	Off
		e sortugers			_	908	-
SHALE, grey,	sandy	ma alsa		1" 9"	_	910'	
	sheared, few coal st		2.	9	- .	ato	TO
SHALE, black,	, sheared, many coal	Dip 32	1'	5 [#]	-	912'	3"
SHALE, dark,	compact		1'	0"	-	913'	3"
	colored, fine grained	l coal					
•	rks	.,	ገ ፣	6 ¹¹	_	9141	9#
	, volcanic fragments,	madium to	_	•			•
COMCIDITION	, voicanie ilagmenos,		111	711	_	9261	ΔĦ
	parse grained.	Dip 25°		5#	_	926	
	compact, coal marks		u.	5"	-	320	ð
BRECCIA, medi	ium to fine grained,						. #
		ags.	21	3"	_	9291	0"
VOLCANICS. Dr	robably basalt, finel	ly por-					
	nyritic		31	6 "	_	932	6 👯
	reenstone, fine grain	ned. dark					-
**************************************	reen, in part breccie	ated or					
	illowed	1000 01	21	6"	_	941'	0 #
		tables and	0	O	_	247	U
	etamorphosed, with bi	forite and	C7 8	o #		9441	ΛĦ
` fe	eldspar developed		3.	0 " _	/_	944	U.
				/ 38			
*		•	- (
	•	-	,				

END OF HOLE

LOG OF HOLE #2, Continued

SHALE, grey, sandy with sand lenses, few coal		eaks 0"	-	834'	0"
SANDSTONE, light grey, medium even grain SANDSTONE, grey to dark grey, fine-grained, thin-bedded, shaly with several	4'	6"	-	838 [†]	6 "
	141	6 "	1' 0"	8531	0"
SANDSTONE, finely crushed, with much gouge in fault zone	41	0"	1' 6"	8571	Ω #
SHALE, black, many coal streaks Dip 380	_	0"	0'4"	858°	-
SANDSTONE, grey, fine-grained, somewhat		•	0 4	000	•
broken	91	0π	1' 0"	8671	0"
SANDSTONE, grey, shaly, crushed and faulted					
zone	31	0"	1'8"	870 '	0"
SANDSTONE, light grey, fine-grained, compact					
except in narrow crushed zone at 875'. Calcite strs.	e t	3"		876	72 H
SANDSTONE, grey, fine-grained, shaly bedding	Ο.	3 "	-	070	3
planes. variable dip at low angles	7 1	9#	_	8781	១ #
SHALE, grey, sandy, few coal streaks		0"	_	8791	
SHALE, dark grey, few coal streaks Dip 150		11"		8791	
COAL, very boney (nearly half black shale).					
Sheared.	l'	0π	0' 3"	8801	11"
SHALE, grey, sandy, few coal streaks. In					
part finely crushed	4'	1"	2' 3"	8851	0"
SHALE, black, few coal streaks. Finely crushed	0.1	8#	0	885 t	ott
SHALE, grey, compact, few coal streaks	U	0	0. 9	900	0
Dip 450	7 1	0π		886 *	9#
SHALE, black, numerous coal streaks up to	_	•			•
thick comprise nearly half the					
core. Coal streaks dip about					
50°, and shearing evident parallel				_	
to the bedding.	0 1	10"	0' 1"	8871	6"
SHALE, black, several coal streaks up to					
thick. Severely sheared, in part finely cominuted.	21	9#	1'0"	8901	72 TT
COAL, very boney (nearly half black shale).	~	•	T 0	090	U
Severely sheared, in part finely					
comminuted	1'	•	01 77	891'	10"
SHALE, grey, sandy, compact	1'	2"	01 27	8931	Ο π

"Wm. H. White"

Log of Hole #2, continued

SANDSTONE, light grey, coarse CONGLOMERATE, medium grained		0" 6"	<u>-</u>	6791 6791	-
SANDSTONE, light grey, coarse with few large pebbles		•		6881	
CONGLOMERATE, medium to coarse grained,	•	_			
several coal streaks	51	6 m	21 07	694'	0"
SHALE, grey, sandy, compact, few coal marks	41	0"	_	698°	0"
SANDSTONE, dark grey, shaly	21	0#	_	7001	0"
SANDSTONE, grey, fine to medium grained	201	O ^m	-	7201	-
SHALE, grey, sandy, few coal streaks		•		•	•
Dip 30	1'	8"	-	721'	8"
SHALE, grey, sandy, with irregular steep					
bedding	41	2"	· <u> </u>	7251	10"
COAL, hard, bright	0 *	2"	01 1"	726	0"
SHALE, grey, sandy, one 1" coal seam	0 1	6 "	_	726	6"
SANDSTONE, dark, shaly, irregular bedding	1'	10"	· <u>-</u>	7281	4"
SANDSTONE, grey, fine even grain	41	6 "	-	7321	10"
SANDSTONE, light grey, coarse to very coarse.			·		
Rude bedding dips from 10° to 35°.	16	2"	21 6"	749'	Oπ
CONGLOMERATE, fine grained		6#	_	7521	6 ¹¹
CONGLOMERATE, medium grained		Ŏπ	_	7531	
SHALE, light grey, few coal streaks Dip 370		2"	0 i 9 m		
SANDSTOKE, dark grey, shaly streaks. Shows			•	,	•
irregular cross-bedding	51	4 ¹¹	**	761'	0"

LOG OF HOLE #2, Continued.

SANDSTONE, dark grey, shaly. Numerous inter- calated bands of sandy shale. Dip variable 0° to 20° SANDSTONE, almost white in color, thin- bedded, mostly fine-grained with thin dark bedding planes having	11'	6 ⁿ	-	7721	6"
variable dips at low angles	201	6"	_	7931	0"
SANDSTONE, dark grey, shaly	81	0"	-	801'	0"
SHALE, dark grey, broken, in part finely					
sheared. Many carbonate stringers		0"	21 0"		
SHALE, dark grey, sandy	l'	8 " '		8071	
SANDSTONE, dark grey, shaly			-		
SHALE, dark grey, sandy, few coal streaks	0 *	6 ¹¹	-	811'	6 "
SANDSTONE, dark grey, shaly	l.	417	-	812'	
SHALE, grey, sandy, with sand-filled mud			-		
cracks. Few coal streaks	91	2"	_	8221	0 "
SANDSTONE, dark grey, shaly	0 1	8"	_	8221	8"
SHALE, dark to black, compact, indurated having a false cleavage at 45°.					_
Few carbonate seams	8*	4 [#]	-	831'	0#

"Wm. H. White"

LOG OF HOLE #2 - Continued

MIDSTONE, light grey, coarse to very coarse, with					
irregular conglomerate beds	11'	3"	-	6431	
SANDSTONE, dark grey, shaly	01	9"	· « =	6441	0π
SHALE, dark grey, sandy, compact	41	6 "	-	6481	6 ¹¹
SHALE, black, containing two i coal seams and					
several thinner coal streaks	21	OH	0 * 4 **	6501	6#
COAL, boney	01	3"	0 1 1"	650	
SHALE, grey, sandy, with coal marks		7"			
COAL, bright, hard, with two-way cleat		8"	1 7 7		
COAL,		4"		654	
SHALE		3 "		654!	
COAL		3"	01 1"		
SHALE		ì"		6541	
COAL		3"	0' 12"		
SHALE		2"		655'	
OAL, bright, hard, narrow streaks of bone		8"	01 81	657'	
SHALE, grey, sandy		911	_	657	
COAL, boney, with numerous thin streaks of shale		g۳	0 1 7 11	659'	
SHALE, dark grey, sandy		8"	· _ '	661'	
		8"	_	664'	
SANDSTONE, light grey, very coarse	E	0	_	00#	J
CONGLOMERATE, fine, with indistinct beds of					
coarse sandstone, and scattered larger	72 1	911		6681	0.85
pebbles		0"	-	6701	
SANDSTONE, light grey, very coarse		0"			_
ONGLOMERATE, fine to medium-grained				671'	
SANDSTONE, light grey, very coarse	2.	0"	-	6731	0"
CONGLOMERATE, fine to medium-grained with a few					
scattered pebbles up to 2", and with					~ #4
indistinct beds of coarse sandstone	4'	0"	-	677'	0"

"Wm. H. White"

LOG OF DRILL HOLE #2, Continued

SANDSTONE, dark grey, fine grained, shaly SHALE, dark grey, slightly sandy, many coal	21	6"	-	4781	6 n
streaks SANDSTONE, light grey, medium to coarse	21	4"	-	480	10"
grained	51	6 **	-	486	4"
SHALE, grey, sandy, few coal streaks	_	6 m :	440	490'	
SANDSTONE, grey, variable texture from fine	_	_			
to coarse irregular cross-bedding.					
Abrupt contact with underlying sha	1 e10 '	OĦ	-	5001	10"
SHALE, dark grey, slightly sandy, compact	12'		1' 0"	513	011
SANDSTONE, dark grey, shaly Dip 50	1'	0"	•	514	0 11
SANDSTONE, grey, medium grained	21	l"	_	516	l"
SHALE, black, fissile, few coal streaks				•	
Dip 90	0 *	11"	_	517'	0"
SANDSTONE, dark grey, shaly		0 "		519'	0"
SANDSTONE, light grey, coarse, cross-bedded			_	521'	0 11
SANDSTONE, dark grey, shaly	1'	0"	, –	5221	O#
SHALE, black fissile, leaf impressions, coal					
streaks	_	'1"		5261	l"
SHALE, grey, sandy, few coal streaks	21	0"	01 6"	528°	l"
SHALE, dark grey, finely shared in part, few	_				
coal streaks		9"	1' 0"	5 31 '	
SANDSTONE, dark grey, shaly		24 -		534	
SHALE, dark, sandy, few coal streaks	21	0#	0' 3"	536 1	0"
SANDSTONE, dark, very shaly, several coal		_		_	
streaks	21	6т.	-	538	6"
SHALE, dark, sandy streaks, coal marks					
<u>Dip 100</u>	7'	8"	1' 6"	546	2" .
SANDSTONE, grey, medium grain, few shaly					
partings	7.	4"	-	5531	6"
SANDSTONE, light grey, coarse to very		·	•		
coarse, friable (Borderline of	•	~ =			
fine conglomerate)		9"		563	_
SHALE, grey, sandy	Τ.	6"	-	564	9"
SANDSTONE, dark grey, medium to fine grained	161	O#		Smo.t	
with numerous shaly bedding planes	12,	10"	-	579 ¹ 580 ¹	Ϋ́Т
SANDSTONE, light grey, coarse	U.	10	-	580:	9
SANDSTONE, dark grey, fine grain, shaly	2.1	0#		FOT !	0#
partings	Τ.	יע.	-	581	3
CONGLOMERATE, fine grained, friable, with indistinct bands of coarse sand-			•		
stone and two 1" shale bands, and			•		
several coal streaks which very					
in dip from 0° to 10°	11'	311	1.2	5931	0#
SANDSTONE, light grey, coarse, few coal		J	-	. J. J. J.	U
streaks Dip 100	341	OĦ	_	6271	OĦ
CONGLOMERATE, fine		0"	· <u>-</u>	630'	
SANDSTONE, light grey, very coarse, friable		ŏ#	-	632	
ownership tiens erol's serl course, ritable	~	•		002	v

"Wm. H. White" Assoc. Mining Engineer

LOG OF DRILL HOLE #2 Continued

SANDSTONE, dark grey, shaly	11	0"	-	387 t	0"
SANDSTONE, grey, medium grained. Faulted					
contact with underlying shale dips 45°	7 '	0"	_	3941	
SHALE, grey, sandy, broken	1'	0"	_	395'	0"
SHALE, grey. Numerous talcose shear planes					
and gouge filled fault planes dip-					
ping about 450	5'	0"	-	400	0,4
SHALE, grey. Broken in all directions by many					4-
curved talcose shear planes	7 1	Oμ	-	4071	0 14
SHALE, Grey. Very broken, in part finely					
comminuted. Abrupt faulted contact					
with sandy shale below	_	6"		410'	
SHALE, grey, sandy, compact.	l'	0"	-	411'	6 m
SANDSTONE, grey, fine grained, thin-bedded, with				-	
few shaly partings Dip 90	10	0"		421'	
SANDSTONE, light grey, medium grained, massive	61	011	_	4271	6 m
SHALE, grey, somewhat broken but not sheared.					
One fault plane dipping 45°	7 1	6 ¹¹	-	435	0"
SANDSTONE, dark grey, fine grained, some shaly					
streaks	21	1"	-		
SHALE, dark grey, sandy		8"			
SANDSTONE, dark grey, shaly		8 "	-		
SHALE, dark grey, sandy		0"			
SANDSTONE, dark grey, shaly	1'	0#		444	
SHALE, dark, somewhat sandy		10"		446	
SANDSTONE, dark grey, shaly streaks Dip 100	21	6 "	-	448	9"
SANDSTONE, grey, few shaly bands. Irregular					
bedding		6 m	-		
	10'	O m	-		
SHALE, finely crushed in fault zone		3"	-	4691	3"
SHALE, grey, sandy, compact	_	7"		469	
SANDSTONE, light grey, medium grained		5"		470	
SHALE, dark, slightly sandy. Few streaks of sand	41	4"		474	
SANDSTONE, dark grey, fine grained, shaly	1'	5"	-	476	O û

"Wm. H. White"

LOG OF HOLE #2, Continued

SANDSTONE, light grey, medium to coarse, massive SHALE, black, compact, few coal streaks SHALE, jet black, compact, with numerous coal streaks making up to 25% of the core.	6' 0'	9"	-	312'	
<u>Dip 140</u>		1"		314'	
SHALE, black, compact, few coal streaks		2" 8"	0' 5"	316' 316'	
SHALE, grey, sandy SANDSTONE, dark grey to grey, fine grained, thin-	•	ο	~	210	O
bedded with thin shaly partings. Some	= ∋				
cross-bedding. Dip and strike					
variable	221		-	338 °	
SHALE, dark, compact, coal marks	1'	3"	-	3 39'	
SANDSTONE, light grey, coarse	0	5"	_	340 °	4"
SHALE, dark to black, compact, coal marks and	- •			~ •	~ "
few coal streaks. Dip 180		8"	0'6"	347	
SHALE, grey, sandy	1'	0"	_	348	_
SANDSTONE, dark grey, shaly bands	3'	6"	-	351'	6"
SANDSTONE, light grey, medium to coarse grained,		~ #		gro t	O II
Massive bedded	19.	211	÷ <u>-</u>	370 1 372 1	
SHALE, dark grey, sandy Dip 80	Ţ.	4"	_		
SANDSTONE, dark grey, shaly	Τ,	0	-		_
SHALE, dark grey, sandy	2.	6"	-	375	6
SANDSTONE, dark grey, thin bedded with shaly	•	~ #		7 NW 1	0.11
streaks		3"		377	
SHALE, dark, compact		3"		381'	
SHALE, grey, sandy	Τ,	9"	-	3821	0"
SANDSTONE, dark grey, shaly bands and streaks Dip 150	41	0#	-	386 1	0 **

"Wm. H. White"

LOG OF MERRITT DRILL HOLE #2, Continued

SANDSTONE, grey, medium to fine grained SHALE, grey, sandy		2" 10"		244¹ 245¹	
SANDSTOKE, dark grey, medium to fine grained, thin-bedded showing cross-bedding and channelling	61	2"	-	251'	2"
SANDSTONE, light grey, coarse, massive bedded, friable, containing two 1/8" coal seams, and grading downwards into					
conglemerate	8†	10"		2601	011
CONGLOMERATE, fine grained, scattered coaly	o t	0#		2691	Off
material	_	_	01 4"		
SANDSTONE, fine grained, few shaly streaks			21 8"		
SHALE, grey, compact	4.	8	2.0.	6(4:	0
SHALE, black, compact, many coal streaks. Dip 22	3 1	5"	_	276 '	٦ #
SANDSTONE, dark grey, fine grained, shaly	31	11"	_	280	
			-	2801	-
SHALE, grey, sandy	•	J	_	500	
SHALE, black, fissile, goal marks and coal streaks Dip 14	31	3 "	-	2841	0"
SHALE, black, fissile, coal marks and coal					
streaks Dip 180		6 n		2861	
SANDSTONE, dark grey, micaceous, shaly Dip 190	31	0"	-	2891	6 ¹¹
SHALE, grey, sandy	21	0"	~	291'	6 ¹¹
SANDSTONE, dark grey, shaly	1'	2"	-	2921	8"
SHALE, dark grey, coal marks, broken		4"	01 81		
SHALE, grey, compact, becoming sandy		٥m	01 61		
SANDSTONE, dark grey, fine grained, thin	-				•
bedded, somewhat shaly. Dip	5 !	2"		3031	911
variable 5 to 20	_			3061	
SANDSTONE, light grey, medium to coarse, massiv	e a	TO.	U. J.	200.	U

"Wm. H. White"
Assoc. Mining Engineer.

LOG OF DRILL HOLE #2 - MERRITT, B.C.

Located on NE Quarter Section 14, Tp 91, 1233' from Hole #1 in direction 088° True. Elevation 2022'. Hole started 27/Feb/46

Boulder clay, with some sand and gravel beds Sand, loose, coarse, undecomposed Gravel, with very little interstitial sand Sand, loose, coarse, with layers of coarse grasand, fine, with few large boulders	150° 14° 14° vel 15° 10°		150' 164' 178' 193' 203'	
BEDROCK Th:	ickness	core <u>Missing</u>	_	
SANDSTONE, weathered and broken SANDSTONE, grey, compact, poorly sorted	8'0'	7' 10"	211	0 "
medium to coarse grained with a few thin shaly streaks. Dip 140	4' 9'	t	215	9#
CONGLOMERATE, fine grained. Abrupt Contact. SHALE, black fissile, coaly streaks, becoming	0' 6'	' -	216'	
sandy at the bottom	2' 0'	-	218	3"
SANDSTONE, grey, variable texture from fine to very coarse. Irregular bedding.	21 6	· _	2201	.911
CONGLOMERATE, fine grained. Abrupt contact.	1' 8'	' _	2221	
SHALE, light grey, sandy, coaly twigs	1' 8' 1' 7'	·	2231	7"
SAIDSTONE, grey, fine even grain, massive	1'3"	· -	224'	10"
SAIDSTONE, dark grey, fine grained, thin bedded	l			
with dark laminae dipping irregular-		_		
ly from 8 to 18°	4' 0"		228	
SANDSTONE, light grey, med. to coarse. Massive	2' 5'		231'	
SHALE, grey, sandy	0' 5'	, m	231'	
SHALE, black, coal marks	1' 4'		2331	
SANDSTONE, light grey, coarse, friable	4' 4'		237	
CONGLOMERATE, fine grained, poorly sorted	2' 0'		239	
SANDSTONE, light grey, coarse, friable	4' 8'	1'6"	243	Ο 11

Note: This sequence of sandstone, shale, and conglomerate is similar to, although not identical in detail with that occurring in Hole #1 at 375' depth, which is 85' above the first coal seam. Projection using the assumed attitude indicates approximately the same horizon in the two holes. If the apparent equivalence is a fact, coal should be cut in Hole #2 at a depth of about 320'.

"Wm. H. White"

Wm. H. White Assoc. Mining Engineer.

PROGRESS
NOTES
DRILL
HOLE
#

FINAL PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 15 - 17th

April 15th - Night Shift: 893' to 903'

903' to 913' 913' to 923'. April 16th - Day Shift : Night Shift:

April 17th - Day Shift: 923' to 937'
Night Shift: 937' to 944'. Pulled rods in 10's.

HOLE COMPLETED

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 12th to 15th

Night Shift: Cored 831' to 838' April 12th:

Cored 838' to 848' Cored 848' to 858' Day Shift : Night Shift: April 13th:

April 14th:

Day Shift : Night Shift: Cored 858' to 870' Cored 870' to 879'

April 15th: Day Shift : Cored 879' to 893'

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2

April 10th to 12th

Cored 764' to 784' Cored 784' to 801' April 10th - Night Shift:

Graveyard :

Cored 801' to 811' Cored 811' to 818' April 11th - Day Shift :

Night Shift:

Not working Graveyard:

April 12th - Day Shift Cored 818' to 831'

Ì

Note: Due to labor shortage, work will continue temporarily on a basis of two ten-hour shifts per day.

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 8th to 10th

April 8th. - Night Shift: 680' to 700' Graveyard : 700' to 716'

- Day Shift: 716' to 726' April 9th. 726 to 737

Night Shift: Graveyard: 737' to 752'

April 10th. - Day Shift: 752' to 764'

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 7th. - 8th.

April 7th. - Day Shift : Cored 632' to 638' Night Shift : Cored 638' to 647' Graveyard : Cored 647' to 667'

April 8th. - Day Shift : Cored 667' to 680'

"Wm. H. White"

PROGRESS REPORT - LERRITT DRILL HOLE #2 - April 3rd. to 6th.

April 3rd. - Night Shift: Cored 472' to 486' Cored 486' to 497' Graveyard: April 4th. - Day Shift : Cored 497' to 510' Cored 510' to 523' Night Shift: Cored 523' to 542' Graveyard : April 5th. - Day Shift Cored 542' to 553' Cored 553' to 568' Night Shift: Graveyard : Cored 568' to 583' April 6th. - Day Shift : Cored 583' to 593' Cored 593' to 613' Night Shift: Cored 613' to 632' Graveyard :

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - April 1st. to 3 rd.

Day Shift: Cored 387' to 405' Night Shift: Cored 405' to 426' April 1st. - Day Shift:

April 2nd. - Day Shift: Mixed fresh mud.

Cored 426' to 430' Cored 430' to 436' Cored 436' to 456' Night Shift: Graveyard:

April 3rd. - Day Shift: Cored 456' to 472'

"W.H. White"

PROGRESS RIPORT - MERRITT DRILL HOLE #2 - Mar. 30th to Mar. 31st.

Mar. 30th: Day Shift: Cored 326' to 346'

Night Shift: Cored 346' to 375'

Mar. 31st: Day Shift: Cored 375' to 387'

Night Shift: Not working

"Wm. H. White"
Assoc. Mining Engineer

PROGRESS REPORT - MERRITT DRILL HOLE #2 - 27th Mar. to 29th Mar.

Mar. 27th - Night Shift: Cored 253' to 274'

Mar. 28th - Day Shift: Cored 274' to 289'

Night Shift: Cored 289' to 295' (Got rods stuck in hole)

Mar. 29th - Day Shift: Cored 296' to 302' (Pump trouble remedied)

Night Shift: Cored 302' to 326'

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 25th to Mar. 27th.

Mar. 25th - Day Shift: Pulled casing and confirmed BEDROCK at 203'

Drove pipe to 203'.

Night Shift: Drilled casing down to 213' in loose and

broken sandstone.

Mar. 26th - Day Shift: Cored 211 - 217'. Rearranged drilling set-

up.

Night Shift: Setting up equipment for using mud.

Cored 217 - 224

Mar. 27th - Day Shift: Cored 224 to 243' up to 6 PM.

Note: Starting Mar. 27th two 12 hour shifts per day will operate.

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 20th to Mar. 24th.

Mar. 20th - Day Shift only: Washing sand and gravel out of pipe Drilling casing to 195' in sand and fine gravel.

Mar. 21st - Day Shift: Driving pipe to 193' where it was stopped by a layer of larger boulders.

Night Shift: Washing sand out of pipe, trying to chop boulders ahead of pipe.

Mar. 22nd - Day Shift: Drilling casing down to 202' in fine sand with large boulders, some of which were shale with coal streaks.

Night Shift: Attempted to blast thru casing but had a misfire probably due to hole caving and shorting leads when casing was drawn back. Remainder of shift spent chopping out the hole again.

Mar. 23rd - Day Shift: Drove pipe to 198'

Night Shift: Drilled casing ahead to 208'. In the last five feet the ground was hard and smooth with fine grey clayey mud cuttings coming back - indicates either bedrock or a clay hard-pan.

Mar. 24th - Neither shift working.

Note: Progress of 123', from depth 75' to 198' required 24 shifts, exclusive of time wasted on testing Blanc Method.

Progress of the last 12' required 6 shifts. The slow advance has been due to the hole caving ahead of the pipe and the necessity in consequence of frequent chopping.

"W.H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 15th. to 19 th.

Mar. 15th. - Day Shift of 6 men
Installing mud equipment for 'Blanc Method'
No progress.

Mar. 16th. - Day Shift of 6 men
Installing mud equipment and testing 'Blanc Method'. No progress.

Mar. 17th. - Day Shift of 5 men

Testing 'Blanc Method'

No progress.

Mar. 18th. - Day Shift of 5 men

Most of the day spent removing mud equipment preparing to resume driving operations, and in jaring the pipe losse. During the last two hours of the shift the pipe was driven 2 feet, in ground that had been drilled before the Blanc experiment was made.

Mar. 19th. - Day Shift of 5 men
Pipe driven to 186' in coarse aand and gravel.

Note: Due to the difficulty of turning the pipe while driving, and the shortage of crew it is possible only to run one shift per day.

"W.H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 12th to 14th

Mar. 12th. - Day Shift: Drilled casing to 177 feet.

Drilled core barrel down to 181 feet

in coarse gravel.

Night Shift: Re-threaded 4" casing to be used as

standpipe.

Mar. 13th. - Day Shift: Removed all casing; fixed waterline which

was frozen; and prepared to resume

driving pipe.

Night Shift: Not working (3 men off sick)

Mar. 14th. - Day Shift: Drove 4" pipe to 178 feet (4-man crew)
Night Shift: Not working.

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #2 - MAR. 10th and 11th.

Mar. 10th - Day Shift: Drove pipe to 164' in sand. Wight Shift: Not working.

Mar. 11th - Day Shift: Drilled casing down to 170' Gravel Drilled core-barrel down to 175'

Night Shift: Drilled core-barrel down to 177;

"W.H. White"

Merritt Diamond Drill Hole #2

Progress Report - Mar. 7th to Mar. 9th, inclusive

Mar. 7th - Day Shift - Changed pump in forenoon.
Drilled to 132' and blasted - boulder clay.

Night Shift - Drove pipe to 132'.

Mar. 8th - Day Shift - Drove pipe to 138' - Boulder clay.
Night Shift - Drove pipe to 149' - Boulder clay.

Mar. 9th - Day Shift - Drove pipe to 159' - Material is medium to coarse sand with some pebbles.

(7 men required on this shift to turn pipe while driving; the sand seems to bind the pipe)

Night Shift - Not working.

"Wm. H. White"

Progress Report - Merritt Drill Hole #2 - March 4th to March 6th.

Mar. 4th. - Day Shift Drove pipe to 76' in clay (depth 75' at noon) Night " " 86' " "

Mar. 5th. - Day Shift Drove pipe to 96' in clay and gravel Night " "106' in mostly gravel

Mar. 6th. - Day Shift Drove pipe to 116' in clay, some boulders. > Drilled to 126' in clay and gravel

Night " Driving pipe to 126'

"Wm. H. White"
Assoc. Mining Engineer

PROGRESS REPORT of MERRITT DRILL HOLE #2

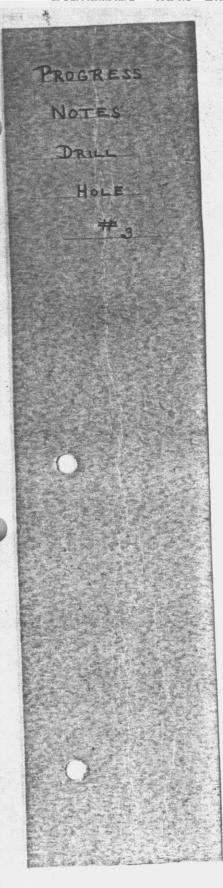
27/Feb. to 3/March

- 27/Feb. Day Shift: Collared Hole #2 Night Shift: Drove 6" pipe - Depth 30' in clay
- 28/Feb. Day Shift: Driving 4" pipe Night Shift: " - Depth 45' in boulder clay

 - 2/Mar. Day Shift: Driving 4" pipe- Depth 65' in coarse sand Night Shift: No working
 - 3/Mar. Day Shift: Not working Night Shift: Driving 4" pipe

"Wm. H. White"
Assoc. Mining Engineer

MERRITT DRILL HOLE #3



JC:

PROGRESS REPORT MERRITT D.D.H. No. 3, June 17 - June 18

June 17

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 1246' - 1258'

Coring 1258! - Coring 1258! -

June 18

Graveyard Shift: Drilling stopped here Coring 1258* - 1270*

June 19

First drill used, is being set up on #4 site

"J.M. Black"
Asst. Mining Engineer
19 June 46

PROGRESS REPORT MERRITT D.D.H. No. 3 June 13 - June 16

June 13

Graveyard Shift Coring 1165' - 1175'
Morning Shift Coring 1175' - 1186'
Afternoon Shift Coring 1186' - 1192'

June 14

Graveyard Shift Coring 1192' - 1197'
Morning Shift Coring 1197' - 1206'
Afternoon Shift Coring 1206' - 1216'

June 15

Graveyard Shift Coring 1216' - 1226' Morning Shift Coring 1226' - 1236' Afternoon Shift Shut down

June 16

Graveyard Shift Shut down
Morning Shift Shut down
Afternoon Shift Coring 1236' - 1246'

Depth at 8:00 A.M. June 17th was 1258!

Dr. J. Black has taken over here.

At a depth of 1225' a coal seam with a thickness of 1'4" was encountered (bony coal) This seam may allow us to make a tentative correlation with the No. 1 hole on the Indian Reserve (1225' in hole No. 3 being equivalent 550' in the Indian Reserve hole) I am bringing the graphic logs with me and will discuss the matter with you.

"C.B. Newmarch"

PROGRESS REPORT MERRIT D.D.H. No. 3. June 10 - June 12

June 10

Graveyard shift: Coring 1083 - 1099 Morning Shift: Coring 1099 - 1108 Afternoon Shift: Coring 1108 - 1114

June 11

Graveyard Shift: Coring 1114' - 1123'
Morning Shift: Coring 1123' - 1135'
Afternoon Shift: Coring 1135' - 1140'

June 12

Graveyard Shift: Coring 1140' - 1150' Morning Shift: Coring 1150' - 1154' Afternoon Shift: Coring 1154' - 1165'

Depth at 8:00 A.M. June 13 was 1175

Section is mostly sandstone with a little carbonaceous shale.

"Charles B. Newmarch"
Asst. Mining Engineer

PROGRESS REPORT MERRITT D.D.H. No. 3. June 5 - 9

June 5

Graveyard Shift: Coring 1018 - 1014 Morning Shift: Coring 1014 - 1024 Coring 1024 - 1034

June 6

Graveyard Shift: Coring 1034' - 1045'
Morning Shift: Coring 1045' - 1063'

Afternoon Shift: Shut down waiting for drill rods

June 7

June 8

June 9

Graveyard Shift: Coring 1068' - 1073' Morning Shift: Coring 1073' - 1083' Afternoon Shift; Coring 1083' - 1093'

Depth at 8:00 A.M. June 10 was 1099! No coal to date.

1

"C.B. Newmarch"

Asst. Mining Engineer.

Will core to 1123 and advise C.B.K.

PROGRESS REPORT MERRITT D.D.H. No. 3. June 1 - 2

June 1

Graveyard Shift: Coring 939' - 946'
Morning Shift: Coring 946' - 956'
Afternoon Shift: Shut down.

June 2

Graveyard Shift: Shut down Morning Shift: " " " Afternoon Shift: " "

(

Depth at 11:00 A.M. June 3 was 977'
No coal to date.

"C.B. Newmarch"

Asst. Mining Engineer.

PROGRESS REPORT MERRITT D.D.H. No. 3. June 3 - 4

June 3

Graveyard Shift: Coring 956' - 963' Morning Shift: Coring 963' - 977' Afternoon Shift: Coring 977' - 987'

June 4

Graveyard Shift: Coring 987' - 1002'
Morning Shift: Coring 1002' - 1003'
Afternoon Shift: Mixing mud and coring 1003' - 1008'

Depth at 11:30 A.M. June 5 was 1024!

Now coring conglomerate and sandy shale.

"Charles B. Newmarch"
Asst. Mining Engineer.

PROGRESS REPORT - MERRITT DRILL HOLE No. 3 May 28 - 29

May 28

Graveyard Shift: Coring 830' - 840'
Morning Shift: Coring 840' - 850'
Afternoon Shift: Coring 850' - 855'

May 29

Graveyard Shift: Coring 855' - 860'
Morning Shift: Coring 860' - 870'
Afternoon Shift: Coring 870' - 880'

Depth at 12:30 P.M. May 30 was 911'

Coring is now continuing without unusual difficulty at about 30 feet per day.

"C.B. Newmarch"

PROGRESS REPORT - MERRITT DRILL HOLE No. 3 - May 26 - 27

May 26

Graveyard Shift: Shut down

Morning Shift: Coring 800' - 805' Afternoon Shift: Coring 805' - 812'

May 27

Graveyard Shift: Coring 812 - 817 Morning Shift: Coring 817 - 820 Afternoon Shift: Coring 820 - 830

Depth at 12:00 P.M. May 28 was 850*

"C.B. Newmarch"

PROGRESS REPORT - MERRITT DRILL HOLE NO. 3 - May 21 - 25

May 21

Graveyard Shift: Coring 688 - 698 Morning Shift: Coring 698 - 708 Afternoon Shift: Coring 708 - 714

May 22

Graveyard Shift: Coring 714' - 723'
Morning Shift: Coring 723' - 735'
Afternoon Shift: Coring 735' - 757'

May 23

Graveyard Shift: Coring 757' - 767'
Morning Shift: Coring 767' - 777'
Afternoon Shift: Coring 777' - 789'.

May 24

Graveyard Shift: Coring 789' - 800' Morning Shift: Shut down Shut down.

May 25

Graveyard Shift: Shut down. Morning Shift: Shut down. Afternoon Shift: Shut down.

Note: Will resume coring at 8:00 A.M. May 26

"C.B. Newmarch"

Asst. Mining Engineer.

May 24, 1946

PROGRESS REPORT - MERRITT DRILL HOLE No. 3 May 18 - 20

May 18

Graveyard Shift: Coring 561' - 571'
Morning Shift: Coring 571' - 582'
Afternoon Shift: Coring 582' - 598'.

May 19

Graveyard Shift: Coring 598' - 614'
Morning Shift: Coring 614' - 653'.
Afternoon Shift: Coring 633' - 653'.

May 20

Graveyard Shift: Coring 653! - 671!
Morning Shift: Coring 671! - 681!
Afternoon Shift: Coring 681! - 688!.

Total depth at 4:00 p.m. May 21 was 708.

"C.B. Newmarch"

PROGRESS REPORT Merritt Drill Hole No. 5, May 16 - 17

May 16

Graveyard Shift: Coring 512 to 516 Morning Shift: Coring 516 to 521 Afternoon Shift: Coring 521 to 529

May 17

Graveyard Shift: Coring 529' to 539' Morning Shift: Coring 539' to 549' Afternoon Shift: Coring 549' to 561'

Total Depth at 5:00 P.M. May 18 was 590'

No coal encountered during the week.

"C.B. Nevmarch"
Asst. Mining Engineer

PROGRESS REPORT Merritt Drill Hole No. 3, May 14 - 15

May 14

Graveyard Shift: reaming hole from 140° to 499° Morning Shift: Running 420° of casing

Afternoon Shift: running casing

<u>May 15</u>

Graveyard Shift: running casing

Morning Shift: Setting casing at 498' and cored 499' - 502'

Afternoon Shift: cored 502' to 512'

Total depth at 5:00 P.M. May 16 was 521

"C.B. Newmarch"

PROGRESS REPORT - MERRITT DRILL HOLE #3 - May 11th to 13th.

May 11th: Morning Shift: Cored 449' to 459' Afternoon Shift: Shut down.

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May 12th: Graveyard Shift: Shut down.
Morning Shift: Shut down

Afternoon Shift; Cored 459 to 467

May 13th: Graveyard Shift: Cored 467 to 479

Morning Shift: Cored 479' to 489' Afternoon Shift: Cored 489' to 499'

Decision made to case hole to 450° to shut off artesian watter encountered from 430° to 450°.

"C.B. Newmarch"

PROGRESS REPORT - MERRITT HOLE #3 - MAY 8th to 10th

May 8th - Night Shift: Sank casing easily to 140 feet which appears to be the bottom of the caved area which caused the trouble. If more trouble develops later on the casing

can be sunk farther.

Graveyard : Cored 365 to 387

May 9th - Day Shift : Cored 387 to 405

Night Shift: Cored 405' to 416' Graveyard : Cored 416' to 430'

May 10th - Day Shift : Cored 430' to 449'

Night Shift: Pump trouble - Hole making water

Graveyard : Not working

May 11th - Day Shift only: Repaired Pump. Cored 449 -459

Note: Mr. Newmarch has taken over here at this point.

"W.h. White"

PROGRESS REPORT - MERRITT DRILL HOLE #3 - May 6th to 8th.

May 5th: Night Shift: 318' to 326'

Graveyard : 326 to 345

May 7th: Day Shift : 345' to 355'

Night Shift: 355' to 365' Caving trouble.

Graveyard: Caving below the casing, set at 40' resulted in the casing breaking off near the bottom and dropping to 100' in the caved hole. This was recovered and new

casing run in to 100°.

May 8th: Day Shift: Decision made to case the hole down to

solid ground, which, on account of the friable nature of the sandstones and

conglomerates, may have to go to bottom (365')

"Wm. H. White"

PROGRESS REPORT- MERRITT DRILL HOLE #5 - May 4th - 6th.

May 4th - Night Shift: Cored 202° to 222° (Engine trouble)

May 5th - Day Shift: Cored 233° to 253° Night Shift: Cored 253° to 274° Graveyard: Cored 274° to 297°

May 6th - Day Shift: Cored 297° to 318°

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #3 - May 2nd to May 4th.

May 2nd: Night Shift: Cored 90° to 180°

Day Shift: May 3rd:

Cored 120° to 146° Cored 146° to 166° Night Shift:

Cored 166* to 193* Graveyard:

Cored 193' to 202' May 4th: Day Shift:

"Wm. H. White"

PROGRESS REPORT - #3 HOLE, MERRITT, B.C. Apr. 29th to May 2nd.

April 29th: Day Shift only: Set up completed and hole collared.

April 30th: Day Shift : Drove 4" pipe to depth of 11 feet in

stream wash, encountering decomposed

rock at 7 feet.

Night Shift: Drilling casing down.

May 1st: Day Shift: Drilled casing down to 40 feet in

decomposed bedrock.

Cored 40° to 50° in decomposed sandy

shale

Night Shift: Cored 50 to 70

May 2nd: Day Shift: Cored 70 to 90 .

"Wm. h. White"

MERRITT DRILL HOLE #3

SHALE, dark, silty	01 611	-	1261')"
SANDSTONE, light grey medium grain with dark laminae and 12" dark grey shale with coaly laminae DIP 15 - 180		•	1265' () "
SANDSTONE, dark, fine and medium grained drilling stopped here	5	14	1275	

"J.M. Black"
Asst. Mining Engineer
18 June 46

LOG OF NO. 3 HOLE (Continued)

				11751	Ou
SHALE, grey to black, sandy in part, Carbon	-	0.11		11001	^ ff
aceous in part, coaly partings	51	0"	_	11801	O"
SANDSTONE, grey, fine grained, with thin	21	511	_	1182'	511
dark silty laminae SANDSTONE, grey, medium grained, compact	۷.)	_	1102	,
(coarse grained in part) with frag-					
ments of carbonized wood	31	7"	01 4"	11861	Oπ
	41		-	11901	
SANDSTONE, light grey, fine grained	1'	5 "	-	1192'	
SANDSTONE, grey, medium-course grained,	- •	^n	11 011	33001	
occasional thin carbon lenses	5† 0†		11 0"	1197	
SANDSTONE, as above	0,	0	-	1197'	0
SHALE, dark grey, carbonaceous in part, sandy	8 1	4 ¹¹	11 7"	12061	On
SHALE, dark grey, kilty to sandy, carbon	•	·	- ,		_
in part	51	θ_{u} -		1211	0"
SANDSTONE, light grey, with thin silty					
shale laminae		0"	-	1213'	0"
SHALE, brown to black, silty, carbonaceous,	7 .	Δ#	01 108	101/1	OΠ
plant fragments, coaly partings	י כ	0#	01 101	1510.	0"
SANDSTONE, grey fine grained, shaly,	1'	QII	_	12171	QH
carbonaceous in part SANDSTONE, light grey, medium grained,	_	/	_	121	,
compact	21	9 n	_	1220'	6 n
SHALE, dark grey, silty in part, compact					
(carbon in top 3")	31	6 n	-	1224	O_{11}
SHALE, dark grey to black, carbon, coaly	•	0		20041	0 m
partings	-	8 n 4 n	01 811	1224'	0,4
COAL, bony crushed	_	٥n	0. 0	1227	
SHALE, dark grey, sandy at base SANDSTONE, light grey, course grained	Τ.	0		TEEL	U
(fine grained at top)	31	311	-	1230'	2"
SHALE, dark grey to black, carbonaceous,	•	-			
3" bony coal at centre)	51	10"	51 2"	12361	On
SHALE, dark grey sandy grading into fine-		- 44			==
grained sandstone at base	5'	5"	-	1241'	5"
SANDSTONE, light & grey, fine-medium					
grained with thin irregular dark	71	4 ¹¹		1244'	o n
(carb) laminae, specks of coal		3 n	_	1246	
SANDSTONE, light grey, course grained SANDSTONE, light grey medium to course	1	,	_	1240	U
grain	41	On	•••	12501	O۳
CONGLOMERATE, fine grained	•	0 n		12541	
SANDSTONE, light grey, fine grain,		-		/	
micaceous	41	Ou	21 0"	1258'	Oπ
SANDSTONE. light grev, medium grained with					
shaly laminae at base and la coaly				20/01	/
shale in middle	21	6 n	-	12601	ρ"

LOG OF No. 3 HOLE (continued)

	grey, coarse grained grey, fine grained, with dark	51	5°	41 5"	10991	
	grey silty shale bands grey, medium-coarse grained,	31	6"	-	1102	6 n
CANDOMONIA	grading into fine grained con- glomerate in part	1,	1"	-	1103	7 ⁿ
SANDSTONE,	grey, medium-coarse grained with short fine grained con- glomerate sections, a few thin		,			
	lenses of coal, slight porosit in 6" section.		5"	01 3"	1108	0"
SANDSTONE,	light grey, medium-coarse grained.	21	5 "	-	1110'	
SANDSTONE,	DIP - 100 light grey, fine grained shaly	11	3"	_	1111'	Ŗπ
SHALE, darl	at base, carbonaceous streaks k grey to black, carbonaceous, coaly partings.		ے۔ 4۳	1' 6"		
SANDSTONE,	dark grey, coarse grained, with occasional carbonaceous or coal	7				
	streaks	91	0^n	4' 10"	1123	011
	TE, grey, fine grained k grey to black, carbonaceous,		7"	•	11251	7"
SANDSTONE,	coal partings. grey, fine grained, with thinly	<i>,</i>	0,4	•	1127'	•
SANDSTONE,	bedded dark grey silty shale grey, medium grained, compact,		5"	•	1130'	
	occasional silty bands.		Ou	21 011		
	grey, coarse grained, compact, grey, coarse grained, compact,	-	0n	-	1140'	0 11
SHALE, dar	shaly at top. k grey, to black, carbonaceous,	1'	8 n	- '	1141'	8"
	sandy in part, few coaly part- ings.	51	7"	-	1147'	3 ⁿ
	light grey, medium-coarse grained	2'	9"	-	11501	0"
SHALE, 11g	ht grey, crushed and slicken- sided occasional thin lenses of coal (1/8")	41	011	21 21	1154	On.
SHALE, dar	k grey, to black, carbonaceous, coaly partings, sandy at top	•	-		,	•
	and bottom	4 !	4"	-	1158	4 n
SANDSTONE.	grey, coarse grained	01	8 "	-	11591	0"
	k grey to black, carbonaceous, coaly partings.	1,	5"	-	1160	
Sandstone,	grey, fine grained, with thin irregular dark silty shale		_		ı	•
	bands	41	7"	21 2"	11651	O m
SANDSTONE.	grey, fine grained, as above	01	4 n	***	1165'	4 ⁿ
	TE, compact with short coarse grained sandstone sections	31	8*	~	11691	Oπ
SANDSTONE,	grey, grading from coarse grained at top to fine grained		•	_		~
	at bottom. shear plane at 450					
	at centre.	61	0"	2' 7"	1175'	O.

C.B. Newmarch
Asst. Mining Engineer June 17/46

LOG OF HOLE No. 3 (continued)

SANDSTONE, light grey, medium grained compact (coarse grained at top) DIP - 150 - 100	61	On	-	1030	0 n
CONGLOMERATE, fine grained SANDSTONE, grey, very coarse grained		6 n	31 4"	1034	
SHALE, dark brown to black, silty, carbonaceous	_	0"	_	1039'	
SHALE, dark grey to black, sandy, micaceous			-	10421	
SANDSTONE, grey, very fine grained, shaly at top, micaceous.	3!	0"	1' 5"		
SANDSTONE, grey, as above, coal markings. CONGLOMERATE, grey, fine grained at top		7" 10"	-	1045† 1049†	
SHALE, dark grey, brown to black, carbon- aceous, with a few thin (1/8")					
coal laminae. SANDSTONE, grey, medium-coarse grained	31	On	-	1052	5"
compact SHALE, dark grey to black, carbonaceous,	21	7"	0' 2"	1055'	0"
with coal partings SANDSTONE, grey, medium grained, compact	1'	2"	-	1057	2"
with a few thin dark carbon-	c 1	3"		10621	= 11
aceous shale laminae. SHALE, brownish black, silty, carbon-)	J	-	1002.	9
aceous with occasional coaly partings.	01	7 "	-	10631	On
SHALE, dark grey to black, carbonaceous, coaly partings.	1'	O _H	-	1064	0#
SANDSTONE, grey, medium-coarse grained, with a few thin dark silty					
shale bands. SHALE, dark grey to black, carbonaceous,	31	9"	-	1067'	9"
with carbonized plant frag- ments, specks of resin.	31	3# .		1071'	On
SANDSTONE, grey, fine grained shaly with numerous carbonized plant				,_	_
fragments specks of coal SHALE, dark grey, carbonaceous in part	21	Ou	-	1073'	On
plant fragments.	01	7"	-	10731	7 "
SANDSTONE, grey, medium grained, occasion- al coal markings.	11	8 n	-	1075	3 "
SHALE, dark grey, carbonaceous in part, sandy in part, carbonized					-
plant fragments SANDSTONE, grey, medium grained compact		9 "		1078	
SANDSTONE, grey fine grained, interbedded with thin bands of dark grey	-				
carbonaceous shale. SANDSTONE, grey, fine grained, shaly,	81	.1 "	51 6"	1089'	1"
with a few short carbonaceous shale sections.	41	6#	_	10931	7 H
		_		//	

1

"C.B. Newmarch"

LOG OF No. 3 HOLE (Continued)

"		light grey, fine grained. grey, sandy, carbonaceous in	01	5"	-	9461	5"
	SANDSTONE.	part grading into fine grained sandstone in part. light colored, fine grained	41	0"	-	9501	5 ¹¹
		compact. grey to black, sandy in part,	21	7"	-	9531	On
	SHALE, derk	carbonaceous at base with plant fragments. grey, sandy.		0 m	01 7"	956 1 957 1	
	SHALE, dark	grey to black, carbonaceous be- coming sandy at base.	_	6 m	-	9591	
	SANDSTONE,	light grey, fine grained inter- bedded with dark irregular silty shale laminae	31	6 m	_	9631	O#
	SHALE, blac	ck, carbonaceous, coaly partings, friable		0"	-	9641	
<i>)</i>	SANDSTONE,	light grey, fine grained, shaly at top with dark irregular silty bands.	21	0"	_	9661	יים
	SHALE, dark	grey, sandy, irregularly bedded with thin (1"-2") bands of grey	2	Ū	-	700	Ū
	SANDSTONE.	medium grained sandstone, a few coaly partings. light grey, fine grained with	11'	On	91 4"	977'	On
,	•	thin irregular carbonaceous or coaly laminae	10'	On	31 7"	9871	On
	CONGLOMERAT	DIP 100 E, quite coarse in part, pebbles of greenstone, qtz, and red			•	•	
	SHALE, blac	granite. ek, carbonaceous, with plant	-	04	1' 9"	9931	
		fragments grey, fine grained, shaly at top grey, medium to coarse grained,	_	8# 7"	-	993 ! 996 !	
•	•	a few thin coaly lenses. grey, coarse grained, with a few	5 '	9 n	21 91	1002	On
	CONCI OMEDAD	thin irregular coal lenses. TE, light grey, fine grained		8 n	-	10031	
	SANDSTONE,	grey, coarse grained with 1" of coarse grained conglomerate at	-	•	_	•	
	SHALE, dark	base. grey to black, with carbonaceous	31	2"	-	10061	10"
	CONGLOMERAT	partings, thinly bedded. DIP 100 - 150 E, rather coarse	21 51	0# 2#	21 8"	10081	
	·	grey to black, carbonaceous becoming sandy at base.		3# 9#		1016	
	CONGLOMERA'	E, fine grained.	1,	ን"	יס יכ	10241	U"

"C.B. Newmarch"

Asst. Mining Engineer.

June 8/46

LOG OF HOLE No. 3 (continued)

SANDSTONE, light grey, very fine grained,					
shaly in part.	21	On	_	8631	7 tt
CONGLOMERATE, light grey fairly coarse, with	_	•	_		•
a few thin bands of sandy shale	21	2"	-	8651	3 ¹¹
SHALE, grey, sandy, irregular bedding	11	4"	-	8661	7"
SHALE, black, carbonaceous, with 1" of				•	
crushed coal.	O:	5 m	-	8671	
SHALE, grey, sandy, occasional coal markings,	-			•	
grading into fine grained light				000	
grey sandstone in part.	י כ	Ou	1' 0"	8701	
SHALE, dark grey to black, carbonaceous, coaly partings carbonized plant			-	•	
fragments.	21	s n	_	8721	511
CONGLOMERATE, light grey, fairly coarse	_			0,2	
grained	81	7"	81 0"	881	
SANDSTONE, light grey, coarse grained, few		•	-		
coal lenses (1/8") sheared at 45°	1'	0"	-	8821	
SANDSTONE, light grey, very fine grained,					
shaly	21	On	-	8841	
DIP 10 - 15 degrees.				-	
SHALE, dark grey to black, carbonaceous,		c H		888*	c n
sandy in part, coaly partings SANDSTONE, light grey, medium grained.	41	7"	1' 4"	891	J
SANDSTONE, light grey, medium-coarse grained	11	On		8921	-
SHALE, dark grey to black, carbonaceous,	_	•		٠,٢	
sandy in part, coaly partings	1'	7"	_	8931	7"
SANDSTONE, light grey, very fine grained,		-			·
shaly	31	5"	-	8971	
SANDSTONE, light grey, fine grained, carries					
a little finely divided pyrite.	41	Ou	21 7"	901'	
SANDSTONE, light grey, fine grained with a few irregular coal lenses.	71	Ou		904	
CONGLOMERATE, light grey, rather coarse in	י כ	0	_	904	
part	8+	0"	51 0"	9121	
CONGLOMERATE, rather coarse, as above		3"		9141	311
SHALE, dark grey, coaly partings.		911	-	9151	
SANDSTONE, light grey, medium grained with				_	
thin irregular bands of dark grey					
silty shale	31	Ош	-	918	
SANDSTONE, grey, very gine grained, shaly,		ΔĦ	21 8"	000*	
occasional thin coal lenses.	4'	0"	2' 0"	9221	
SANDSTONE, light grey, fine grained, with thin grey silty bands.	121	U II	111 On	9341	
SANDSTONE, grey, medium grained	ֿן ד	Ğn		9351	6n
SANDSTONE, light grey, fine grained inter-				///	•
bedded with dark grey to black					
sandy shale	l'	64	- .	9371	
SHALE, dark brown to black, carbonaceous,				-	
coaly partings (several shears at		۸			
550)		8 n		9391	Q #
SHALE, dark grey, sandy	Τ,	U	-	9401	0"
SANDSTONE, grey, fine grained, with dark irregular silty bands.	7 1	4 n	_	9421	
SANDSTONE, fine- medium grained, salt and	-	•	_	/ T L "	
pepper, a few carbonaceous fragmen	ts.				
coarser at top.	4 i	Ou	1' 10"	9461	
-					

LOG OF HOLE No. 3 (continued)

SANDSTONE, light grey, fine grained to medium grained with a 3" dark				
grey shale band at center. SANDSTONE, light grey, medium grained to	10'	0"	61 61	810'
coarse grained with a few thin irregular crushed coal lenses . SANDSTONE, alternating bands (4" to 6")	21	0"	-	8121
of fine and medium grained light grey, shaly in part. SHALE, chocolate brown to black, carbonaceous		4"		815† 4"
with coaly partings and lenses at base.	1'	0"	-	816' 4"
SANDSTONE, light grey, fine grained with thin irregular silty laminae	1'	311	_	817' 7"
SHAIE, dark grey to black, sandy in part carbonaceous with several seams of crushed coal from 1" to 3" thick				
a few thin carbonate stringers. SANDSTONE, light grey, fine grained micro-	2'	5"	0' 4"	8201
micaceous, shaly at base.	_	011	-	8211
SHAIE, dark grey, sheared, with gouge, possib		4 ¹¹	-	8211 4"
SANDSTONE, light grey, fine grained, with interbedded black silty shale				
bands. SANDSTONE, as above	•	8n 4n	1' 8"	830¹ 831¹ 4"
SHALE, black, silty, carbonaceous, coaly partings, leaf molds.	31	8 n	-	8351
SANDSTONE, light grey, fine grained, shaly	-	10" 2"	-	8351 10"
SHALE, black, silty carbonaceous as above COAL, badly crushed.		611	-	8381 8381 6#
SHALE, dark grey, sandy, shaly in part, coal specks.	1'	6 n	01 311	8401
SHALE, dark grey, sandy in part, carbonaceous in part, occasional plant frag-			-	
ments and coaly partings (Several fractures dipping at 750)	_	9 n	~	8421 911
SHALE, light grey, sandy, irregularly bedded, grades into coarse grained sand-stone in part (3" brown shale	•	-		
band with coaly fragments at center.	51	O#	-	8471 911
SHALE, dark grey to black, carbonaceous		•		• •
(carbonized plant fragments and coaly lenses)	21	3 n	1' 2"	8501
SHALE, grey to dark grey, silty to sandy, carbonaceous in a few short section sheared in upper 2' dipping at 75° scour and fill structure at one possible.	int		• .	<u>.</u>
2" of coarse grained sandstone wit matrix at base.	л s 10'	naly O"	01 6#	8601
SHALE, pale greenish grey.		1"	-	8611 1#

	SHALE, black, carb. with a few thin crushed					
	crushed coal bands	11	2"	•	7841	
	SHALE, dark grey, carbonized wood frags.	01	5"	-	7841	5ª
,	SANDSTONE, light grey, coarse grained,					
	conglomeratic in part	41	7 n	1' 10"	7891	
	SANDSTONE, as above	01	811	1, 10,	7891	8"
	SANDSTONE, light grey, fine grained, with					
	thin dark silty laminae	1'	1"	-	7901	9"
	SHALE, dark grey to black, carb. in part	41		~		
	SANDSTONE, light grey, med. grained compact			31 8n		-

"C.B. Newmarch"

LOG OF HOLE No. 3 (continued)

	SANDSTONE, alternating irregularly bedded laminae of light grey fine grained sandstone and dark carbonaceous sil-	tv				
	shale with coaly partings.		10#	-	6761	10"
	SHALE, black, silty, carbonaceous			11 2"		
	SHALE, black, silty, as above		Oi.	-	6821	
	SANDSTONE, light grey, fine grained, with	_				
	wavy irregular dark silty carb.					
	bands.	41	8"	-	6861	8=
	SHALE, dark grey, soft, friable	-	4 n	-	6881	•
	SHALE, " " "		Ö#		6891	
	SANDSTONE, light grey, fine grained, irregular bedded	ly 41	0π	_	6931	
	SANDSTONE, light grey, medium - coarse grained		•		-//	
	conglomeratic in basal 3"	5 t	On	-	6981	
	SANDSTONE, light grey, medium grained		Ön		7001	
	SANDSTONE, light grey, fine grained, with					
)	irregular dark silty laminae, gradi	ng				
	to shale at base	~	Ou	_	7021	
	SHALE, dark grey to black, silty, carbonaceous	61	O#	1' 7"	7081	
	SHALE, dark grey to black, sandy in part,			,		
	carbonaceous	61	0"	-	7141	
	SHALE, light grey, fine grained, sandy	21	7"	-	7161	7 n
	SANDSTONE, light grey, fine to medium grained	1'	5"	-	7181	-
	SANDSTONE, light grey, medium grained, inter-					
	bedded with thin dark carb. laminae	51	Ou	-	7231	
	SHALE, dark grey to black, silty to sandy,	-				
	with a few thin fine grained grey			•		
	sandy bands.		0"	-	725	
	SHALE, almost black, siltly, a few spores	41	6 ¹¹	~	7291	6 m
	SANDSTONE, light grey, fine grained, with					
	occasional thin carbonaceous	••	/ m		6244	
	laminae DIP 15 degrees	21	6 n	-	7321	
	SHALE, dark grey, sandy in part, carb. in	7 •	~ #	A. A.		
	part		Ou	01 9"	735!	^ **
1	SHALE, dark grey to black, carbonaceous	01	y"	-	735!	9"
	SHALE, light grey, sandy		3"	41 011	7381	-
	SANDSTONE, medcoarse grained, light grey		2#	41 On	7451	2 11
	SANDSTONE, as above				7471	
	SANDSTONE, light grey, fine grained, shaley interbedded with thin black wavy	υ.	1"	•	141	y
	carb. laminae				-	
	CONGLOMERATE, light grey, fine grained	0.1	211	81 6n	7571	
	CONGLOMERATE, light grey, fine grained		On .		7671	
	SHALE, light grey, fine grained, silty	11	-	2-0	7681	A H
	SANDSTONE, light grey, fine grained, shaley	T	T		1,00	~
	in part, numerous thin carb.	-	•			
	laminae.	5 t	4 tt	_	7731	811
	SANDSTONE, light grey, medium grained, compact			21 4"	ว่าว่า	•
	SANDSTONE, fine - medium grained, as above	21	Ö#	- -	7791	
	SHALE, dark grey, carb. in part, wood frags.	31			7821	10#
	specks of coal			.	,	_ ~

LOG OF HOLE No. 3 (continued)

SHALE, dark grey to black, carbonaceous,					
silty, slickensided in part	01		- '	459	8"
SHALE, grey, sandy, carbonized wood fragments	41	4 ¹¹	-	4641	
SHALE, dark, carbonaceous, silty, carb. wood	51		31	4691	
SHALE, grey, silty, with thin coaly partings	01	8"	_	469'	8"
SHALE, dark, carbonaceous, coaly streak at					
base	l'	8"	-	471'	
SHALE, grey, sandy, carb. in part	2'	4"	_	473	8 "
SANDSTONE, light-colored, fine-grained,					
micaceous		10"		474	
SHALE, sandy, alternating fine grained sand-	41	6 "	3' 4"	4791	
stone and grey sandy shale (carb. in					
part)					
SANDSTONE, light-colored, coarse grained, cross	5-				
bedded, arkosic, (frags, carb. wood)	0 1	4"	· -	479	4"
SANDSTONE, light grey, fine grained with dark	_				
carbonaceous silty partings (x-bedded)	g·	8"	9 1	4891	
SANDSTONE, medium to coarse grained, pebbles of					
quartz and greenstone (some reddish	10				
quartz pebbles)		_6 tt	91 61	4991	
SANDSTONE, As above		9#	-	4991	9 11
COAL, slightly crushed DIP 20 degrees	0 1	3"	-	500	
SANDSTONE, as above, with thin irregular				-	
lenses of coal	0 *	5"	_	5001	5"
SHALE, dark brown, silty, coaly specks	1'	7 11	01 7"	5021	
SHALE, almost black, carbonaceous, silty	2'	6 T	-	504	6 "
sheared in places (DIP 0 degrees)					
SANDSTONE and SHALE - alternating thinly and					
irregularly bedded laminae of fine					
grained light grey ss. and dark grey					
silty sh. Specks of coal, plant frags.		6 "	-	512	
SANDSTONE and SHALE, as above, some x-bedding	1'		-	513'	
SANDSTONE, light grey, medium grained	4		` -	517'	
SHALE, dark grey, to black, silty, carb. in					
part with occasional thin stringers					
of coal		0"	1'8"		
SANDSTONE, light grey, fine to med. grained	51	O n	. -	526	
with irregular dark silty laminae,					
occasional plant frags.					
SHALE, dark grey to black, silty, carb. plant					
fragments	3'		-	529	
SHALE, as above, sheared in places	l'		-	530	-
SANDSTONE, fine grained, light grey (grading				-	
into sandy shale in part) coal mark-					
ings	8		01 5"	538	
SANDSTONE, light grey, fine to med. grained	1'		. —	539	-
SANDSTONE and SHALE, alternating bands of				•	
fine to medium grained light grey ss.					
and dark silty shale. DIP 15 degrees.	ΤΟ,		-	549	

"C.B. Newmarch"

LOG OF HOLE #3, CONTINUED

SANDSTONE, light grey, medium to fine grain. Compact	21	6 "		357 ¹	6 m
SANDSTONE, grey, medium to fine grained, in					
part thin-bedded. Two narrow shale		_	•		
bands. Dip variable, but about 150	18'	0"	-	' 375 '	6 m
SANDSTONE, light grey, medium grained. 4" coal					
seam.	1'	0"	-	376 '	6п
CONGLOMERATE, medium grain. Many red granite					
pebbles	81	6 ¹¹	-	377 1	Oπ
SANDSTONE, light grey, medium to coarse, with	10				
conglomerate bands of unknown					
thickness	22*	Ο 11	21' 0"	399 1	O II
CONGLOMERATE, medium grained, arkosic, with	- •			407.	
red pebbles	2'	6 т	1' 6"	4 01'	0"
SANDSTONE, dark grey, shaley, thin-bedded.					
Hard and compact. Contains many					~ **
carbonized twigs	41	0 "	-	405'	0"
SANDSTONE, grey, fine even grain. Compact and		_ ==		~ .	
massive		6 T		413'	
SANDSTONE, light grey, medium grain. Massive	2'	-3"	0, 8,	415'	9"
CONGLOMERATE, fine to medium grain. Numerous					~ •
pebbles of red granite	7.	3"	3! 3"	423	0"
SANDSTONE, grey, fine even grain. Variable	4				
<u>dip 0-50</u>	71	2"	-	430 '	2π
SANDSTONE, light grey, coarse grain, few large	_				
pebbles	0 *	10	" –	431	Oπ
SHALE, dark, sandy with coarse sand grains.	_			_	
few coal streaks	0 3	9"	-	431'	911
SANDSTONE, light grey, medium to coarse					
grained. Poorly sorted with few					
larger pebbles	-	3"			_
CONGLOMERATE, medium grained, with red granite	91	0"	71 6"	449 '	0 n
pebbles					
SANDSTONE, grey, thin-bedded with carbonaceous					
partings. Dip 70	7 1	0 #			
SANDSTONE, light grey, med. to coarse	31	0 "	1'0"	4591	0 #

Note: This completes the logging by the undersigned

"Wm. H. White"

Log of Hole #3, Continued

EANDSTONE, light grey, medium to coarse grain. Friable	21	6 "	-	320 '	6 "
SHALE, dark to black, fissile, with leaf molds.					
Dip 120		10"	_	321'	4 n
SANDSTONE, light grey, medium to coarse					
grained		7 17	-	323'	11"
SANDSTONE, dark grey, shaley, irregular bedding	01	8"	_	324	7"
SHALE, grey, few coal streaks	1'	10"		3261	5"
SANDSTONE, light grey, fine to medium grain.					
In part thin-bedded. Dip 100	10'	11"	_	3371	4"
SHALE, grey, few coal streaks, grading to					
sandy shale	1'	5"	_	3381	9"
SANDSTONE, grey, thin-bedded and cross-bedded	31	5" 5"		342	
SANDSTONE, light grey, medium grain. Cross-		_			
bedded	1 1	411	_	3431	6"
SANDSTONE, grey, fine even grain. Massive		6"	_	345'	_
SHALE, dark, with few coal streaks	_	O#	01 67	3471	
SANDSTONE, grey, medium to fine grain, in part	-	Ŭ.	•	O 1 .	•
thin-bedded	41	6π	_	3511	S TE
SHALE, dark, grading to sandy. Contains 6" mud		Ū		001	•
seam.		6#	01 87	3531	OĦ
SANDSTONE, grey, med. to fine grain, in part		•	V 0.	000	•
thin-bedded	21	0#	_	355 t	0#
	~	•	. —	500	9

"Wm. H. White"

Log of #3 Hole, Continued

,	SANDSTONE, dark grey, shaley with narrow shale bands. Fine grained, with irregular	4¹ r	6 n	-	2061	6 "
	cross-bedding.					
	SHALE, dark, compact, leaf molds and few coal streaks	1'	9"	-	2081	3 "
	SHALE, grey, soft and muddy, many carbonized twigs	31	9"	-	2121	0#
	SANDSTONE, grey, thin-bedded, shaley with					
	complete leaf molds on bedding.					
	<u>Dip 120</u>		2"		214	
	SHALE, dark, with few coal streaks	1'	2"	-	215	4"
	SANDSTONE, grey, thin-bedded, shaley. Shows	0.1	30#		218	o II
	cross-bedding and channelling		10"	-		
	CONGLOMERATE, fine, friable	3. 11'	10"	21 8" 81 6"	233 t	
		TT.	0"	8. 6	233	U
	CONGLOMERATE, fine with indistinct bands of coarse sand. Friable	17 t	07	31 6"	2401	Off
			U	5 6	£ - U	O
	SANDSTONE, dark grey, shaley, with shale bands Much irregular cross-bedding.	· / 1	0"	1'0"	244	0 #
	SHALE, grey, compact, few coal streaks		0"		245	
	SANDSTONE, grey, thinbedded, with shaley	_	•	_	ಬಹರ	•
	bands containing thin coal streaks	g t	6"	-	2531	6 **
	SHALE, dark, with few coal streaks		6"		255	
	SANDSTONE, grey, thin-bedded, shaley, soft		4 ⁿ	-	256	
	SHALE, dark, with few coal streaks		10"	_	257'	
	SANDSTONE, light grey, medium grained		8"		2631	
	SHALE, dark to black, sandy lenses		711		265'	
	SANDSTONE, dark grey, fine grained, shaley	_	•			
	Irregular bedding	11	10"	_	2671	3#
	SHALE, dark. Many very thin coal streaks	1'	411	_	268'	7#
	SANDSTONE, light grey to grey. Medium to				æ	-
	fine grain. Shaley bedding in	-				
	places. Dip 16	10'		, -	278	
	SHALE, grey, sandy		9"	-	2 89 1	
	SANDSTONE, light grey, very coarse. Friable		8#	10' 2"	297	
	SANDSTONE, grey, fine-grained, compact		1"	-	299	
	SHALE, grey, with few coal streaks		0"	-	301	
	SANDSTONE, dark grey, thin-bedded, shaley		11"	-	307	
	SHALE, dark with many carbonized twigs	Τ,	Oπ	-	308!	0"
	SANDSTONE, dark grey, thin-bedded, shaley					
	with beds of coarser sand.	10'	0.11	1' 0"	318'	0#
	Dip variable 12 to 18°	TO.	U."	T. O	STO.	U

"Wm. H. White"

leaf molds. Dip 90 2'4" - 196'10" SANDSTONE, dark, shaley, fine grained, compact 5'2" - 202'0"

"Wm. H. White"
Assoc. Mining Engineer.

LOG OF HOLE #3. Continued

	SANDSTONE, grey, shaley, thin-bedded, friab	le 5	0"	3' 7"	951	0"
	SANDSTONE, light grey, medium grained, frial	ble				
	containing nodules of coal up to					
	across.	51	0"	3' 9"	100	Oπ
	SANDSTONE, light grey, very coarse, poorly		-			
	sorted. Contains indistinct bed	8				
	of conglomerate. With several 1					
	coal streaks		0#	16' 7"	1191	0#
	SHALE, dark, soft, few coal streaks			01 67	120'	-
	SANDSTONE, dark grey, shaley, irregular bed	_	•	•		•
	ding		2#		122'	ΩĦ
	SHALE, black, fissile, leaf molds, few coal	۵	€.	_	122	U
	streaks	01	10"	_	123'	g ti
			4"		125'	
	SANDSTONE, grey, shaley		4"	-	TEU	TO
`	SANDSTONE, light grey, coarse-grained, poor	11'	0#	nt of	137	c #
_}	sorted, friable				_	
	SHALE, dark, with few coal streaks	0.	10"	_	138'	4"
	SANDSTONE, grey, mostly thin-bedded and	_				
	shaley, but with irregular channe	eT-				
	ling of coarser material. Few					
	irregular coal streaks.					
	Average dip 120		8"	0'8"	145'	-
	SHALE, dark, soft		011	01 6"		-
	SANDSTONE, grey, shaley, thin-bedded		7 n		147	
	COAL, hard, clean, dull conchoidal fracture	0'	J#	-	147	.8 "
	SANDSTONE, light grey, medium grain, some					
	cross-bedding. Contains 4" stream					
	hard coal	_	2"		150 '	10"
	CONGLOMERATE, medium to fine grained	l'	01	-	151'	10"
	SANDSTONE, light grey, variable_coarse grain	n 1'	8"	_	153'	6 ⁿ
	SANDSTONE, dark grey, shaley. Fine even					
	grain. Soft	31	6 ^m	1' 6"	157'	0 11
	SHALE, grey, compact, soft	01	11"	_	157	11"
	SANDSTONE, dark grey, shaley. Fine even gre	ain.				
1	Soft	31	1"	_	161	0π
	SHALE, dark, fissile, leaf molds. Soft and	-	_			•
	muddy	21	4"	_	163	4 [#]
	SANDSTONE, dark grey, shaley	1'	8"	_	1651	
	SANDSTONE, light grey, medium to coarse	_	•			
	grained	7.1	8#	-	166'	8"
	SANDSTONE, grey, thin-bedded, shaley bands	-	•			•
	Dip 90	51	0"	_	171	en.
	CONGLOMERATE, fine grain. Few coal streaks		4"		176	
	SANDSTONE, grey, thin-bedded, shaley bands		O _M		177	
	CONGLOMERATE, fine-grained with few larger	-	U	—	711	V
	pebbles. One streak of hard coal	1			•	
	·		0"		1091	Δ#
	near base	J	U	_	182,	U
	SHALE, grey, sandy, few thin coal streaks.	<i>a</i> 1	0"	1' 0"	106 \$	ΛĦ ·
	Soft.		97	T 0"	186	
	SANDSTONE, dark grey, shaley			· -	188'	
	CONGLOMERATE, fine grained	Τ,	0"	-	189	A
• •	SANDSTONE, grey, thin-bedded showing cross-		~=			
	bedding	_	9"		191'	
	SHALE, grey, sandy with irregular sand lense	es 3'	0"	-	194	6 п
	SHALE, dark, fissile, thin coal streaks and					

LOG OF #3 HOLE

Approximate position: 760 feet on a line bearing 330° True from the Southeast corner of Lot 120 Approximate Elevation: 2420'

	Thick	nes s	core missing	_	h —
STREAM WASH BEDROCK, very decomposed apparently sandy shale		0# 0#	33'0"	7' 40'	-
SHALE, grey, sandy, coal marks. Soft decomposed. SANDSTONE, grey, shaley with coal marks.	יו	0#	-	41'	0"
soft, decomposed. Dip 15 to 22		7 m	-	42'	
SANDSTONE, light grey, coarse, friable CLAY, probably ground up decomposed shaley sandstone	•	9# 8#	- 5' 0"	43' 50'	_
SHALE, light grey, sandy, soft and clayey SHALE, dark, with leaf molds and coal street	51	2" 4"	-	55¹ 56¹	gn
SHALE, black, sheared, in part finely pul- verized containing carbonaceous material	01	3"	-	56 ¹	9"
SHALE, dark, soft SHALE, black, sheared, in part finely pul-	0 *	4"	• • • • • • • • • • • • • • • • • • •	57'	1"
verized containing carbonaceous material SHALE, light grey, sandy, soft	•	8π 8π		57 ¹ 58 ¹	-
SANDSTONE, dark grey, shaley. Soft and clay SANDSTONE, light grey, medium to coarse,	yey ī'	6"		601	3"
poorly sorted. Very friable SHALE, grey, compact, but soft and clayey	ة <u>-</u>	911	-	64' 71'	0"
SHALE, light grey, sandy, soft and clayey SANDSTONE, light grey, medium grained.		04	-	781 801	_
very soft and muddy SHALE, dark, finely brecciated, containing carbonaceous matrix		3"	· ••	801	
SHALE, dark, soft SANDSTONE, dark grey, shaley, thin-bedded	1'	0"	-	81'	3"
Soft and clayey. Dip variable but averages about 120	_	7# 2#	~	84 ' 90'	10"
SHALE, dark, soft		۵	_	3 0	J

"Vm. H. White"

PROGRESS REPORT MERRITT D.D.H. No. 3, June 17 - June 18

June 17

Graveyard Shift:

Coring 1246' - 1258' Coring 1258' - Coring 1258' -

Morning Shift: Afternoon Shift:

June 18

Graveyard Shift:

Coring 1258' - 1270'

Drilling stopped here

June 19

First drill used, is being set up on #4 site

"J.M. Black"

Asst. Mining Engineer

19 June 46

PROGRESS REPORT MERRITT D.D.H. No. 3 June 13 - June 16

June 13

Graveyard Shift Coring 1165' - 1175' Morning Shift Coring 1175' - 1186' Afternoon Shift Coring 1186' - 1192'

June 14

Graveyard Shift Coring 1192' - 1197'
Morning Shift Coring 1197' - 1206'
Afternoon Shift Coring 1206' - 1216'

June 15

Graveyard Shift Coring 1216' - 1226' Morning Shift Coring 1226' - 1236' Afternoon Shift Shut down

June 16

Graveyard Shift Shut down
Morning Shift Shut down
Afternoon Shift Coring 1236' - 1246'

Depth at 8:00 A.M. June 17th was 1258'

Dr. J. Black has taken over here.

1

At a depth of 1225' a coal seam with a thickness of 1'4" was encountered (bony coal) This seam may allow us to make a tentative correlation with the No. 1 hole on the Indian Reserve (1225' in hole No. 3 being equivalent 550' in the Indian Reserve hole) I am bringing the graphic logs with me and will discuss the matter with you.

"C.B. Newmarch"

PROGRESS

NOTES

DRILL

HOLE

15

PROGRESS REPORT MERRITT D.D.H. No. 3, June 5 - 9

June 5

Graveyard Shift: Coring 1018' - 1014'
Morning Shift: Coring 1014' - 1024'
Afternoon Shift: Coring 1024' - 1034'

June 6

Graveyard Shift: Coring 1034' - 1045' Morning Shift: Coring 1045' - 1063'

Afternoon Shift: Shut down waiting for drill rods

June 7

June 8

June 9

Graveyard Shift: Coring 1068! - 1073!
Morning Shift: Coring 1073! - 1083!
Afternoon Shift; Coring 1083! - 1093!

Depth at 8:00 A.M. June 10 was 1099' No coal to date.

"C.B. Newmarch"

Asst. Mining Engineer.

Will core to 1123 and advise C.B.N.

PROGRESS REPORT MERRIT D.D.H. No. 3, June 10 - June 12

June 10

Graveyard shift: Coring 1083' - 1099'
Morning Shift: Coring 1099' - 1108'
Afternoon Shift: Coring 1108' - 1114'

June 11

Graveyard Shift: Coring 1114' - 1123'
Morning Shift: Coring 1123' - 1135'
Afternoon Shift: Coring 1135' - 1140'

June 12

Graveyard Shift: Coring 1140' - 1150' Morning Shift: Coring 1150' - 1154' Afternmon Shift: Coring 1154' - 1165'

Depth at 8:00 A.M. June 13 was 1175

Section is mostly sandstone with a little carbonaceous shale.

"Charles B. Newmarch"

PROGRESS REPORT MERRITT D.D.H. No. 3, June 3 - 4

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June 3

Graveyard Shift: Coring 956' - 963' Morning Shift: Coring 963' - 977' Afternoon Shift: Coring 977' - 987'

June 4

Graveyard Shift: Coring 987' - 1002'
Morning Shift: Coring 1002' - 1003'
Afternoon Shift: Mixing mud and coring 1003' - 1008'

Depth at 11:30 A.M. June 5 was 1024'
Now coring conglomerate and sandy shale.

"Charles B. Newmarch"
Asst. Mining Engineer.

PROGRESS REPORT MERRITT D.D.H. No. 3, June 1 - 2

June 1

Graveyard Shift: Coring 939! - 946! Morning Shift: Coring 946! - 956! Afternoon Shift: Shut down.

June 2

Graveyard Shift: Shut down Morning Shift: " " " Afternoon Shift: " "

Depth at 11:00 A.M. June 3 was 977'
No coal to date.

"C.B. Newmarch"

Asst. Mining Engineer.

PROGRESS REPORT MERRITT D.D.H. No. 3, May 30 - 31

May 30

Graveyard Shift: Coring 880' - 890' Morning Shift: Coring 890' - 911' Afternoon Shift: Coring 911' - 922'

May 31

Graveyard Shift: Coring 922' - 932'
Morning Shift: Coring 932' - 934'
Afternoon Shift: Coring 934' - 939'

Depth at 11:00 A.M. June 1st was 956'
The section remain unchanged; no coal to date.

"Charles B. Newmarch"
Asst. Mining Engineer

PROGRESS REPORT - MERRITT DRILL HOLE No. 3 May 28 - 29

May 28

Graveyard Shift: Coring 830' - 840' Morning Shift: Coring 840' - 850' Afternoon Shift: Coring 850' - 855'

May 29

Graveyard Shift: Coring 855' - 860' Morning Shift: Coring 860' - 870' Afternoon Shift: Coring 870' - 880'

Depth at 12:30 P.M. May 30 was 911'

Coring is now continuing without unusual difficulty at about 30 feet per day.

"C.B. Newmarch"

PROGRESS REPORT - MERRITT DRILL HOLE No. 3 - May 26 - 27

May 26

Graveyard Shift: Shut down

Morning Shift: Coring 800' - 805' Afternoon Shift: Coring 805' - 812'

May 27

Graveyard Shift: Coring 812' - 817'
Morning Shift: Coring 817' - 820'
Afternoon Shift: Coring 820' - 830'

Depth at 12:00 P.M. May 28 was 8501

"C.B. Newmarch"

PROGRESS REPORT - MERRITT DRILL HOLE NO. 3 - May 21 - 25

May 21

Graveyard Shift: Coring 688' - 698' Morning Shift: Coring 698' - 708' Afternoon Shift: Coring 708' - 714'

May 22

Graveyard Shift: Coring 714' - 723'
Morning Shift: Coring 723' - 735'
Afternoon Shift: Coring 735' - 757'

May 23

Graveyard Shift: Coring 757' - 767'
Morning Shift: Coring 767' - 777'
Afternoon Shift: Coring 777' - 789'.

May 24

Graveyard Shift: Coring 789' - 800' Morning Shift: Shut down Afternoon Shift: Shut down.

May 25

Graveyard Shift: Shut down.
Morning Shift: Shut down.
Afternoon Shift: Shut down.

Note: Will resume coring at 8:00 A.M. May 26

"C.B. Newmarch"

Asst. Mining Engineer.

May 24, 1946

May 23, 1946.

Merritt Drill Hole No. 3

Reached a depth of 765' at noon
on May 23.

PROGRESS REPORT - MERRITT DRILL HOLE No. 3 May 18 - 20

May 18

Graveyard Shift: Coring 561! - 571!
Morning Shift: Coring 571! - 582!
Afternoon Shift: Coring 582! - 598!.

May 19

Graveyard Shift: Coring 598' - 614'
Morning Shift: Coring 614' - 653'.
Afternoon Shift: Coring 633' - 653'.

May 20

Graveyard Shift: Coring 653! - 671!
Morning Shift: Coring 671! - 681!
Afternoon Shift: Coring 681! - 688!.

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Total depth at 4:00 p.m. May 21 was 7081.

"C.B. Newmarch"

PROGRESS REPORT Merritt Drill Hole No. 3, May 16 - 17

<u>May 16</u>

Graveyard Shift: Coring 512' to 516' Morning Shift: Coring 516' to 521' Afternoon Shift: Coring 521' to 529'

May 17

Graveyard Shift: Coring 529' to 539' Morning Shift: Coring 539' to 549' Afternoon Shift: Coring 549' to 561'

Total Depth at 5:00 P.M. May 18 was 590'

No coal encountered during the week.

"C.B. Newmarch"

PROGRESS REPORT Merritt Drill Hole No. 3, May 14 - 15

May 14

reaming hole from 140' to 499' Running 420' of casing running casing Graveyard Shift:

Morning Shift:

Afternoon Shift:

May 15

Graveyard Shift: running casing

Setting casing at 498' and cored 499' - 502' Morning Shift:

Afternoon Shift: cored 502' to 512'

Total depth at 5:00 P.M. May 16 was 521'

"C.B. Newmarch"

PROGRESS REPORT - MERRITT DRILL HOLE #3 - May 11th to 13th.

May 11th: Morning Shift: Cored 449' to 459'

Afternoon Shift: Shut down.

May 12th: Graveyard Shift: Shut down.
Morning Shift: Shut down

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Morning Shift: Shut down
Afternoon Shift: Cored 459' to 467'

May 13th: Graveyard Shift: Cored 467' to 479'

Morning Shift: Cored 479' to 489' Afternoon Shift: Cored 489' to 499'

Decision made to case hole to 450' to shut off artesian watter encountered from 430' to 450'.

"C.B. Newmarch"

PROGRESS REPORT - MERRITT HOLE #3 - MAY 8th to 10th

May 8th - Night Shift: Sank casing easily to 140 feet which

appears to be the bottom of the caved area which caused the trouble. If more trouble develops later on the casing

can be sunk farther.

Graveyard : Cored 365' to 387'

May 9th - Day Shift : Cored 387' to 405'

Night Shift: Cored 405' to 416' Graveyard: Cored 416' to 430'

May 10th - Day Shift : Cored 430' to 449'

Night Shift: Pump trouble - Hole making water

Graveyard : Not working

May 11th - Day Shift only: Repaired Pump. Cored 449'-459'

Note: Mr. Newmarch has taken over here at this point.

"W.H. White"

PROGRESS REPORT - LERRITT DRILL HOLE #3 - May 6th to 8th.

May 5th: Night Shift: 318' to 326'

Graveyard : 326' to 345'

May 7th: Day Shift : 345' to 355'

Night Shift: 355' to 365' Caving trouble.

Graveyard: Caving below the casing, set at 40' resulted in the casing breaking off near

the bottom and dropping to 100' in the caved hole. This was recovered and new

casing run in to 100'.

May 8th: Day Shift : Decision made to case the hole down to

solid ground, which, on account of the

friable nature of the sandstones and

conglomerates, may have to go to bottom (365')

"Wm. H. White"

PROGRESS REPORT- MERRITT DRILL HOLE #3 - May 4th - 6th.

May 4th - Night Shift:

Cored 202' to 222' (Engine trouble) Graveyard:

May 5th - Day Shift :

Cored 233' to 253' Cored 253' to 274' Cored 274' to 297' Night Shift:

Graveyard :

May 6th - Day Shift : Cored 297' to 318'

"Wm. H. White"

PROGRESS REPORT - MERRITT DRILL HOLE #3 - May 2nd to May 4th.

May 2nd: Night Shift: Cored 90' to 120'

May 3rd: Day Shift: Cored 120' to 146'

Night Shift: Cored 146' to 166' Graveyard: Cored 166' to 193'

May 4th: Day Shift: Cored 193' to 202'

"Wm. H. White"

PROGRESS REPORT - #3 HOLE, MERRITT, B.C. Apr. 29th to May 2nd.

April 29th: Day Shift only: Set up completed and hole collared.

April 30th: Day Shift : Drove 4" pipe to depth of 11 feet in

stream wash, encountering decomposed

rock at 7 feet.

Night Shift: Drilling casing down.

May 1st: Day Shift: Drilled casing down to 40 feet in

decomposed bedrock.

Cored 40' to 50' in decomposed sandy

shale

Night Shift: Cored 50' to 70'

May 2nd: Day Shift: Cored 70' to 90'.

"Wm. H. White"

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MERRITT DRILL HOLE ##

PROGRESS NOTES DRILL HOLE

LOG OF DRILL HOLE #4, MERRITT, B.C. (cont)

					491' 0"
-	light, massive, medium grain, few coal partings, at 500' coarser massive, medium grain, coarse	10'	0"	-	501' 0"
DRNDDIONE,	504-08	10'	0 "	-	511' 0"
SANDSTONE,	massive		9 11	-	513' 9"
	FE, fine and sandy at top	5'	Ó á	6*	518' 9"
SANDSTONE,	medium to fine grain dark grey dip 50	2 1	72 11		520' 0"
	_	<u>,</u>	3" 0"	•	
SANDSTONE,	grading down to shaly sandstone massive, light, medium grain	ວ	0	-	523' 0"
DIMEDOTONIA,	dip 17°, some silty beds dip 5°	7 1	011	71 0"	530 ' 0"
SANDSTONE,	light, medium grain few silty beddip 40 - 80 somewhat coarser at			- •	
	535 and few coal fragments there	7 *	011	-	537' 0"
SANDSTONE,	light, medium grain, mostly massifew silty beds dip 5°, coaly	ve			
	partings 538	9 1	On	_	546' 0"
SANDSTONE,	massive, light colored	51	011	_	551' 0"
SANDSTONE,	thin bedded, silty, dip 50	21	0"	, 	553' 0"
SANDSTONE,	massive, light, medium to fine				
	grain, few silty beds, coaly part-				
	ings 557, 560, dip 50, few irregul				
CANDOMONE	dips	8'	0"	6 m	561' 0"
SANDSTONE,	massive, calcite stringer at base	- 8.	0"		569' 0"
SAMDSTONE,	light and dark, thin bedded, shall	у Э.	0"	1'0"	572' 0"

"J.M. Black"

Asst. Mining Engineer

4 July 46

Hole stopped Jy 4 © 575' in sandstone (H.S.)

LOG OF DRILL HOLE #4, MERRITT, B.C. (cont)

				3851	0"
SANDSTONE, medium grain, dark and light,	- ·				c **
some coal partings	Τ.	6 ¹¹	-	386 1	Þ.,
CONGLOMERATE, dark, fairly coarse to 1", few coal fragments		6#	31 0"	395'	0.11
CONGLOMERATE, light colored with few	0	0	3· 0··	290	U
coaly streaks	10'	OĦ	_	4051	077
CONGLOMERATE		0#	21 311	410'	
CONGLOMERATE, some coarse sandy beds, coal	•	•	- 0	110	-
fragments at 413, at 420 6"					
very coarse, pebbles to 2"					
closely packed	11'	Ο 11	1' 3"	421'	0"
SANDSTONE, medium grained thin dark and					
light, beds dip 15-180, some					
mica, towards base beds thicker	101	~ =		400.	~ "
	το.	0,4	-	431'	0"
SANDSTONE, coarse, light with few dark fine					
beds some coal fragments, dis- turbed	51		1011	436 1	011
SANDSTONE, medium grained, dark and light	J		10	400	U
beds, some coarser beds, dip					
80-120-140 getting shaly at base	7 1	011	_	4431	0"
SHALE, sandy with coal marks		ŎĦ	11 8	4471	
SHALE, sandy black with abundant coal					
partings	2'	6"	-	449 '	
SANDSTONE, brown, fine grained		4"		449'	
SHALE, black, much broken		2"	31 8"	455'	
SHALE, black, fissile, broken	21	0"	1' 6"	457!	
COAL, and boney shale, 5" coal- see coal a c	2'	0,π	1, 24	459	
COAL, and shale, 4" coal 8" shale	1'	10"	10"	460 '	10"
SANDSTONE, shaley, dip 180, some irregular	· · · · · · · · · · · · · · · · · · ·	2"		46.41	O.11
bedding SANDSTONE, shaly	_	0μ %	1. 0.	464' 468'	
SANDSTONE, dark and light, fine to medium	*	0	1.0	400	0
grain	4	0π	6 11	4721	0#
SANDSTONE, medium grained, light with dark	-	•	•	1. ~	
laminae, dips 100-200	9 *	0#	-	481'	0 **.
SANDSTONE, medium to fine grained, some					
shaly beds	4 1	9 "	3"	485°	9 n
SHALE, dark, dip 130, some calcite filled				_	
fractures	21	3"	. 6 [#]	488 '	0 17
SANDSTONE, medium and coarse grain, some	7.1	~			0.15
silty beds	3 ,	OH	- ,	491'	0 "

"J.M. Black"

Asst. Mining Engineer

LOG OF DRILL HOLE #4, MERRITT, B.C. (Cont.)

	Thickn	e ss	Core Missing	Depth	
SHALE, dark grey, coal partings SANDSTONE, dark compact becoming coarser	יו	8"	•	286' 0 ' 287' 8"	14
at base. Dip 110 SHALE, dark to black, coal partings, brok SANDSTONE, medium grained, some dark	5' cen 3'	7 ¹¹ 9 ¹¹	6"	293' 3" 297' 0"	
laminae. Dip 20° SHALE, dark fissile, coal partings SLNDSTONE, medium grained. dark lamaninae	21	0# 0#	- 6*	299' 0" 301' 0"	
Dip 12° SHALE, dark with coal partings SANDSTONE, medium grained, getting coarse	1; 3;	6π 6π	1'0"	302' 6" 306' 0"	
downwards - at base massive, some cross bedding CONGLOMERATE, fine, few sandy beds, coal	13'	_	-	3191 0"	
fragments 331' 9" SANDSTONE, medium grained, dark laminae. Dip 13° at base, massive, ligh	21 ' t			340 3"	
colored, irregular SANDSTONE, medium grained with dark lamin		•	-	351' 0"	
getting shaly towards base SANDSTONE, dark and light, few coarse bed		3"	1'0" -	361' 0" 364' 3"	
SHALE, dark with coal partings COAL SHALE, dark with coal partings	1'	0" 0" 4"	3" 10"	366 3" 367 3"	
CAAL SHALE, boney		3" 3"	2"	368' 7" 371' 10" 372' 1"	†
COAL SHALE, boney		3" 2"	-	372' 4" 372' 6"	
COAL, 4 shaly seams totalling 6" SHALE, dark sandy, coal partings, mud seam SANDSTONE, dark, compact, shaly Dip 10-18	m 31	6" 0"	1' 9"	377 0": 380 0" 385 0"	

"J.M. Black"

Asst. Lining Engineer

LOG OF DRILL HOLE #4, MERRITT, B.C. (Con't)

•	Thick	ness	Core Missing	Depth	l -
SHALE, dark grey, some coal partings, some sandy and micaceous beds. Dip 300	31	0 n		2481	0"
SANDSTONE, with dark laminae, some cross bedding medium grain to 250' 3" coarse massive to 258' 3" - with few conglomerate	9				
beds, coal fragments SANDSTONE, brown, medium grain, comparate with very many angular coal fragments up to 1" across oriented parallel to bedding which dips	10' et,	3"	-	258 1	3"
200 200		9"	- ,	2591	0"
SANDSTONE, coarse with conglomerate		10"	7"	2621	
SHALE, dark grey, numerous coal paring some mud seams, dip 200	10'	911	_	273	077
SHALE, dark grey		0"	6"	277	
SHALE, dark grey		Ŏ"	-	2791	
SANDSTONE, medium grained, light and dark grey, dip 100	1 1	9"	_	280 1	9#
SHALE, dark with coal partings		o"	_	2821	
SANDSTONE, medium to coarse grained		0"	· -	2841	
SHALE, dark	ĩ'	3"	-	286	

"J.M. Black"

Asst. Mining Engineer

LOG OF DRILL HOLE #4, MERRITT, B.C.

Located on NE Quarter Section 14, 675' N 18° E True from Hole #1. Elevation 1975'. Hole started June 20, 1946.

Boulder clay and gravel

181'

181*

BEDROCK	Thickn	ess Core Missins	Depth
SANDSTONE, medium to fine grained, cr bedded with dark laminae, thin beds conglomerate. Di	three		186' 0"
SANDSTONE, medium to fine grained, wi dark laminae, shaly toward and 4" of friable Coal and probably some coal that is	th s base mud,		
missing. Dip 10°	51 9	n 1:9n	191' 9"
SANDSTONE, coarse	3' 3	m _	195' 0"
SHALE, dark grey, shattered, getting more sandy to base. Dip 14		n 31 811	201' 0"
SANDSTONE, medium grained, dark grey darker laminae, has one ne vertical slip of about ½", another dip about 45°, bre and gouge about 2" thick,	ar ccia		
cite stringer	6 ' 0	m 9m	207 0 7
SHALE, dark grey, micaceous, near bas sandy. Dip 70	10'0	" 10"	217' 0 "
SHALE, dark sandy, micaceous, at base two seams 1/8 and ½" bony Coal	5¹ 6	n _	2221 67
SANDSTONE, medium grained, light grey with dark laminae, Dip 5 several strike fractures.	- 18°		222 0
Dip 30-60°N - with calcite	4'6	# -	227' 0"
SANDSTONE, coarse, light colored, micaceous, massive - conta	.et	_	
with shale below Dips 300	4' 0		231' 0"
SHALE, dark grey, fractured at contaction COAL,	6		235' 0" 235' 6"
SHALE, dark grey, sandy, fractured, of partings, 2 - 3" broken Coal a	t	.	0404 C**
base SANDSTONE, grey, medium grained, frac shaly toward base - at 242	4'6	т 6 ^н	240' 0"
black shale	5† 0	m 2: 0m	245 0

"J.M. Black"

Asst. Lining Engineer

PROGRESS REPORT MERRITT D.D.H. #4, July 2 - July 4

July 2

Morning shift:

Afternoon shift:

Coring 481 - 501

Coring 501 - 520

Graveyard shift:

Coring 520 - 530

July 3

Morning shift:

Afternoon shift:

Graveyard shift:

Coring 530 - 546

Coring 546 - 556

Coring 556 - 569

July 4

Morning shift to noon: Cored to 572'

)

"J.M. Black"

Asst. Mining Engineer

PROGRESS REPORT MERRITT D.D.H. No. 4, June 28 - July 2

June 28

Morning shift: Coring 380 - 395
Afternoon ": 395 - 411
Graveyard ": 411 - 431

June 29

Morning shift:

Afternoon ":

Graveyard ":

Fishing for bit

Coring 431 - 436

436 - 447

June 30

Morning shift:

Afternoon ":

Graveyard ":

Coring 447 - 459

459 - 472

Not working

July 1

Morning shift:

Afternoon ":

Graveyard ":

Not working
" "

Coring 472 - 481

July 2

Morning shift: Cored to 491 at noon

"J.M. Black"

Asst. Mining Engineer
2 July 46

PROGRESS REPORT LERRICT D.D.H. No. 4, June 26 - June 28

June 26

Morning shift:

Afternoon shift:

Graveyard shift:

Coring 277 - 296

Coring 296 - 311

Coring 311 - 334

June 27

Morning shift:

Afternoon shift:

Graveyard shift:

Coring 334 - 341
Coring 341 - 361
Coring 361 - 379

June 28

Morning shift to noon Cored to 385*

"J.M. Black"
Asst. Mining Engineer
28 June 46

PROGRESS REPORT MERRITT D.D.H. No. 4, June 24 - June 26

June 24

Morning shift:

Afternoon shift:

Graveyard shift:

Coring 186 - 195

Coring 195 - 207

Coring 207 - 217

June 25

Morning shift:

Afternoon shift:

Graveyard shift:

Coring 217 - 245

Coring 245 - 263

Coring 263 - 277

June 26

Morning shift to noon: Cored to 286'

"J.M. Black"
Asst. Mining Engineer
26 June 46

PROGRESS REPORT MERRITT D.D.H. No. 4, June 19 - June 24

June 19

Setting up drill.

June 20

Till noon completing set up.

Morning shift: Afternoon shift: Graveyard shift:

Casing to 15' Casing to 35 Casing to 60

June 21

Morning shift: Afternoon shift: Graveyard shift:

)

Casing to 90° Casing to 120 Casing to 150

June 22

Morning shift:

Casing to 160, lost bit and fished for it till end of shift.

Afternoon shift: Graveyard shift:

Not working Not working

June 23

Morning shift:
Afternoon shift:
Graveyard shift:

Not working Casing to 170

Casing to 181 - bedrock

Coring 181 - 186

June 24

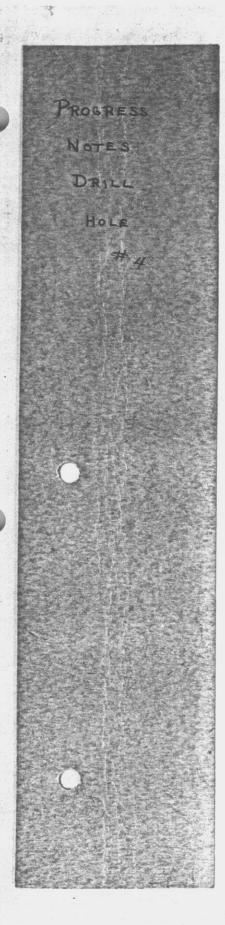
Morning shift noon.

Drilling to 190 had trouble with pump.

"J.M. Black"

Asst. Mining Engineer

MERRITT DRILL HOLE # 4



GRESS REPORT MERRITT D.D.H. No. 4. June 19 - June 24

June 19

Setting up drill.

June 20

Till noon completing set up. Morning shift:

Afternoon shift: Graveyard shift: Casing to 15° Casing to 35 Sasing to 60

June 21

Morning shift: Afternoon shift: Graveyard shift: Casing to 90° Lasing to 120 Casing to 150

June 22

Morning shift:

Casing to 160, lost bit and fished for it till end of shift.

Afternoon shift: Graveyard shift:

Not working Not working

June 23

Morning shift: Afternoon shift: Graveyard shift:

1

Not working Casing to 170 Casing to 181 - bedrock Coring 181 - 186

June 24

Morning shift moon.

Drilling to 190 had trouble with pump.

"J.... alack"

.sst. ini.; bujin er

23 Juno 45

P/C

PROGRESS REPORT MERRITT D.D.H. #4. July 2 - July 4

July 2

Morning shift:

Afternoon shift:

Coring 481 - 501

Coring 501 - 520

Graveyard shift:

Coring 520 - 530

July 3

Morning shift: Coring 530 - 546
Afternoon shift: Coring 546 - 556
Graveyard shift: Coring 556 - 569

July 4

Morning shift to noon: Cored to 572*

"J.M. Black"
Asst. Mining Engineer
4 July 46

PROGRESS REPORT MERRITT D. D.H. No. 4, June 28 - July 2

June 28

June 29

Morning shift:

Afternoon ":

Graveyard ":

Fishing for bit

Coring 431 - 436

436 - 447

June 30

Morning shift:

Afternoon ": 459 - 472

Graveyard ": Not working

July 1

Morning shift:

Afternoon ":

Graveyard ":

Not working

""

Coring 472 - 481

July 2

(

Morning shift: Cored to 491 at noon

"J.M. Black"
Asst. Mining Engineer
2 July 46

PROGRESS REPORT MERRI T D.D.H. No. 4. June 26 - June 28

June 26

Worning shift: Coring 277 - 296
Afternoon shift: Coring 296 - 311
Graveyard shift: Coring 311 - 334

June 27

(

Morning shift:

Afternoon shift:

Coring 334 - 341

Coring 341 - 361

Coring 361 - 379

June 28

Morning shift to noon Cored to 385*

"J.M. Black"

Asst. Mining Engineer

PROGRESS REPORT MERRITT D.D.H. No. 4, June 24 - June 26

June 24

Morning shift:

Afternoon shift:

Coring 186 - 195

Coring 195 - 207

Craveyard shift:

Coring 207 - 217

June 25

Morning shift:

Afternoon shift:

Coring 245 - 263

Graveyard shift:

Coring 245 - 263

Coring 263 - 277

June 26

Morning shift to noon: Cored to 286*

"J.M. Black"

Asst. Mining Engineer

26 June 46

Merritt Dimmond-Drilling

Progress report Feb. 9th - Feb. 12th

- Feb. 9th Day shift Engine arrived by express. Installing engine; running-in engine.
 - " " Night shift Drilling; cored 698 708

1

- Feb. 10th Day shift Cored 718 728.

 Note Core loss between 708 728

 thought possibly due to wash at grinding edge of mud bit. Dropped Altamud
 circulation and resumed water circulation test for improved core recovery.
 - Note Noted caving t 682 after last core gull.
 - Graveyard Broke brokehandle bolt when letting rods down.
- Feb. 11th Day shift Repairing brake h mile. Preparing mud circulation for resuming Altamud circulation. Brilling.
 - " " hight shift Core 746 756; 756 766.
 - " " Craveyard Rods plugged in hole 8' from bottom.
- Feb. 12th Day shift Cored 766 773
 - " | Nicht shift Corea 773 791
 - " " Graveyard Cored 791 801,

"Joseph T. Lardy"

Mining angineer

MERRITT DRILL HOLE #3

PROGRESS
NOTES
DRILL
HOLE

LOG OF MERRITT D.D.H. #5

	dark and light, thin bedded, upper part broken, dip 30	10' 0"	-	530 ¹	0"
SANDSTONE,	light and dark broken, dip 25-30	51 0"	-	5351	0"
SANDSTONE,	light, coarse, massive, fine at 540', conglomerate at 543', dip 35°	15' 0"			
SANDSTONE,	coarse, broken	5 1 0"	3' 0"	555 '	Он

J.M. Black

Asst. Mining Engineer

38

LOG OF #5, D.D.H. MERRITT, B.C.

	SHALE, sandy, few coal partings, dip 5° SANDSTONE, light and dark, medium and fine grain	81	٥n		-	4511	On
	few shaly beds, dip 5-200	191	0"	21	0"	4701	On
	SHALE, sandy, many leaf impressions, dip 100	61	Ou	_	3"	4761	O _M
	SHALE, few sandy beds, many coal partings two		0 H	٠.	Ω #	4011	ΛĦ
	1" seams coal, broken and slickensided SHALE, and coal borken, probable loss of coal	יכ	0"	21	0	481'	0
	51 - 6*	91	On	71	Oπ	4901	ОĦ
	SANDSTONE, medium grain, few shale beds	31	On	•	3 ¹¹	4931	On
	SHALE, sandy, much broken	21	611		_	4951	6n
	SANDSTONE, fine grained, broken	31	On		3"	4981	6"
	SHALE, dark	ינ	Оп		-	4991	6 n
	SANDSTONE, dark and light, fine grained, thin						
	bedded, broken, dips to 350	41	611		3"	5041	On
	SANDSTONE, grey, massive, medium grained		611		-	408	6 n
	SANDSTONE, thin bedded, fine grained, dip 250	41	611		-	3131	Ou
)	SHALE, sandy	21	6 n		_	5151	6 n
	SandSTONE, dark, fine grained, some shale beds, broken	41	6 n		_	5201	On

J.M. Black

Asst. Mining Engineer

LOG OF DRILL HOLE #5, MERRITT, B.C.

				3101	6n
SHALE, grey	21	On	_	3121	6 n
SHALE, grey, broken, little mud	31	611	3"	316'	On
SHALE, sandy, coal partings 317'		Ou		317'	
SANDSTONE, shaly, fine grain, dip 5-100 few coal	-			- '	
partings	121	6 m	-	3291	6 n
SANDSTONE, light, medium grained	7 '	0"	611	3361	6 n
SANDSTONE, shaly, dip 150	41	On		3401	
SANDSTONE, light and dark, medium and fine grain.					
dip 120	21	On	_	3421	611
SHALE, sandy, coal partings 344'	21	6 n	3"	3451	0"
SANDSTONE, fine and medium	1'	6 n	_	3461	
SANDSTONE, light, massive coarse, very coarse				•	
352 - 56 _	10'	6 n	2'0"	3571	
SHALE, sandy, dip 100	51	011	_	3621	011
SANDSTONE, few shaly beds, fine grained	21	0u	_	3641	O#
SANDSTONE, coarse, lowest 6" fine grained	31	6 n	3n	3671	6 n
SANDSTONE, light, coarse massive, dip 130	271		6n	3941	6 ¹¹
SANDSTONE, light, coarse massive	81			4031	
SANDSTONE, shaly	21	0"	_	4051	0"
SANDSTONE, shaly, poorly sorted, few coal partings	3 71	On	-	4121	0 u.
SHALE, with abundant coal partings	1.1	6"		4131	
COAL, $(2\frac{1}{2}^n)$ bone 2 seams), dip 13^0	1 *	6 n	3"	415'	0^{n}
COAL, (5" bone 5 seams)	21	On	6"	4171	O۳
COAL, (1" bone 1 seam)	21	On	9 n	4191	Ο#
COAL, (4" bone 3 seams)	21	$O_{\mathbf{n}}$	11 3"	4211	0n
SHALE, with abundant coal partings 2" coal	21	Οm	911	4231	
SANDSTONE, shaly, dip 100	1'	Oπ	_	4241	0 "
CONGLOMERATE, few sandy beds, very coarse at base	17*	9"	611	441'	9"
SHALE, black, fissile, broken, few coal partings	1'	3 ⁿ	-	4431	0"

J.M. Black
Asst. Mining Engineer
27 July 46

SHALE, medium to dark grey, fractured	61 01	1	-	2891	0#
SANDSTONE, dark and light, medium to fine grain, dip 25	41 91	ı	3"	2931	
SHALE, dark	1' 3'	t	_	2951	0"
SANDSTONE, medium grain thin bedded	31 61	1 1	Ou	2981	6 m
SANDSTONE, course, massive	41 01	1	_	3021	6 n
SANDSTONE, grey, medium to fine grain					
broken at 303' 6", dip 30°	31 61	1	6"	3061	Oπ
SHALE, dark grey some sandy beds coal					
partings at 306' 6"	41 61	•	6"	310'	6"

J.M. Black

Asst. Mining Engineer

LOG OF DRILL HOLE #5, MERRITT, B.C.

Elevation 1975', approximately 471' N 28° W from Hole #1. Started July 18, 1946.

Clay and boulders

1781

•		Core	
	Thickness	Missing	<u>Depth</u>
GUIDGMONTA 11-b4 - 11			
SANDSTONE, light, medium to course grain dip 10°, few shaly			
beds	41 0"	. •	1821 9"
SANDSTONE, light, medium to course,	4.0	. -	102 9
massive, getting shaly		•	
towards base	81 0"	-	190' 0"
SHALE, dark, many coal partings,			
some pyrite 9")			
COAL, 4")	21 011	11 "	192' 0"
SHALE, with many coal partings	6"	-	192' 6"
COAL, with little shale	6n		193! 0"
SHALE, with many coal partings	4 [#]	— 0 n	193' 4"
SHALE, dark grey with few coal paris	ngs6' 0" 2' 0"	8" 1' 6"	2001 0#
SHALE, mud, and coal particles SHALE, dark grey, few coal partings		1, 0,,	202, 0"
few sandy beds, dip 50 - 100	, 21 On	3"	2071 0"
SHALE, dark grey	21 3"	_	2091 3"
SANDSTONE, light, medium to fine gra	_ •		
massive, shaly at 212'.	71 9"	6 "	217' 0"
SANDSTONE, light, medium grain	91 Ó"	6 n	2261 0"
SANDSTONE, light massive, medium to	•		
course	10'2"	-	2361 21
SHALE, dark grey, few coal partings			
sandy towards base	4' 10"	3"	241' 0"
SANDSTONE, light, medium grained, fe	W 7.1 0.11		0444 08
shale beds	31 0" 21 0"	- 7 !!	2441 011
SHALE, dark grey	41 611	3" - 3" -	2501 6"
SHALE, dark grey mud seam 249' 6" SANDSTONE, light grey, fine-medium	4. 0)	290 0
grain, massive	51 611	_	2561 0"
SANDSTONE, light and dark, few shal	_		
beds dip 10	51 611	-	261' 6"
SHALE, dark and medium grey, few sa	ndy		
beds, dip 0° - 20°	14' 6"	6 n	2761 0"
SHALE, dark, broken at 277	21 611	-	2781 6
MUD, shale, coal	1' 0"	6 n	2791 6
SHALE, dark	31 611	-	2831 0"

,

PROGRESS REPORT, MERRITT D.D.H. #5, July 29-30

July 29

Morning shift Afternoon Graveyard

)

Coring to 530 Coring to 550 Reaming out to 550

July 30

Morning shift to 10 a.m.

555

J.M. Black

PROGRESS REPORT, MERRITT D.D.H. #5, July 27-29

July 27

Morning shift Afternoon Graveyard Coring to 451 Coring to 470 Coring to 481

July 28

Morning shift Afternoon Graveyard

)

Coring to 493 Coring to 503 Coring to 513

July 29

Morning to 10 a.m.

Coring to 520

J.M. Black

PROGRESS REPORT LERRITT D.D.H. #5. July 25-27

July 25

Morning shift
Afternoon
Graveyard

Coring to 327
Coring to 357
Coring to 374

July 26

Morning shift
Afternoon
Graveyard

Coring to 395
Coring to 417
Coring to 439

July 27

Morning to 10 a.m. Coring to 443

J.M. Black

PROGRESS REPORT MERRITT D.D.H. #5, July 23-25

July 23

Morning shift:

Afternoon

Graveyard

Coring to 194

Coring to 217

Coring to 246

July 24

Morning shift
Afternoon
Graveyard
Coring to 266
Coring to 283
Coring to 302

July 25

Morning to noon Coring to 311

J.M. Black Asst. Min. Engr.

PROGRESS REPORT MERRITT D.D.H. #5, July 17 - 23.

July 17

Setting up.

July 18

Till 2 p.m. completing set up.

Afternoon shift Graveyard shift Casing to 30 Casing to 60

July 19

Morning shift Afternoon shift

Casing to 80 Casing to 110

July 20

Morning shift
Afternoon not drilling

Casing to 140

July 21

Morning not drilling Afternoon shift

Casing to 160

July 22

Morning shift Afternoon shift Casing to 170 Casing to 175 Bedrock 178

July 23

Morning to noon

Coring to 182

J.M. Black

MERRITT DRILL HOLE # 5

LOG OF DRILL HOLE #5, MERRITT, B.C.

Elevation 1975', approximately 471' N 28° W from Hole #1. Started July 18, 1946.

Clay and boulders

1781

			Core	
	Thickness		Missing	Depth
SANDSTONE, light, medium to coarse				
grain dip 100, few shaly				
beds	41	0 11	-	182' 0"
SANDSTONE, light, medium to coarse,				
massive, getting shaly				
towards base	81	0"	-	190' 0"
SHALE, dark, many coal partings,				•
some pyrite 9")				
COAL, 4")	21	0"	11"	192' 0"
SHALE, with many coal partings		6 ¹¹	-	192' 6"
COAL, with little shale		6 m	-	193' 0"
SHALE, with many coal partings		4 [#]	•••	193' 4"
SHALE, dark grey with few coal partings	61	8"	8*	2001 0
SHALE, mud, and coal particles	21	On	1' 6"	2021 07
SHALE, dark grey, few coal partings,				
few sandy beds, dip 50 - 100	51	0"	3"	2071 0"
SHALE, dark grey		3n	_	209' 3"
SANDSTONE, light, medium to fine grain,	-	_		
massive, shaly at 212'.	71	911	6 ¹¹	217' 0"
SANDSTONE, light, medium grain	-	Ō"	6 n	226' 0"
SANDSTONE, light massive, medium to			Ŭ	
coarse	101	9#	_	236' 2"
	10	ລ		200 2
SHALE, dark grey, few coal partings sandy towards base	A T	10"	:3 m	241' 0"
	4.	10	, 0	SET. O
SANDSTONE, light, medium grained, few shale beds	Z t	О#	_	244' 0"
		ŏ#	3"	246' 0"
SHALE, dark grey		6"	3"	250' 6"
SHALE, dark grey mud seam 249' 6"	4.	D	3	250 • 6
SANDSTONE, light grey, fine-medium	٠.	c #		0501 08
grain, massive	5'	6 11	-	256' 0"
SANDSTONE, light and dark, few shale				0021 68
beds dip 100	יכ	6 m	-	261' 6"
SHALE, dark and medium grey, few sandy				
beds, dip 0° - 20°	14'		6"	276' 0"
SHALE, dark, broken at 277'		6π		278' 6"
MUD, shale, coal		0 11	6 "	279' 6"
SHALE, dark	31	6 "	-	283' 0"

SHALE, medium to dark grey, fractured SANDSTONE, dark and light, medium to	61	0"	-	2891	0"
SANDSTONE, dark and light, medium to fine grain, dip 250	41	9*	3**	2931	9#
SHALE, dark	1'	3"	-	295'	O m
SANDSTONE, medium grain thin bedded	31	6 n	1' 0"	298	6 "
SANDSTONE, coarse, massive	41	0#	_	3021	6 *
SANDSTONE, grey, medium to fine grain				4	
broken at 303' 6", dip 300	31	6 n	6 "	306 1	Ou
SHALE, dark grey some sandy beds coal					
partings at 306' 6"	41	6 ⁿ	6 "	310'	6 m

J.M. Black

Asst. Mining Engineer

LOG OF DRILL HOLE #5, MERRITT, B.C.

				310'	6 "
SHALE, grey	21	0"	-	312!	6 7
SHALE, grey, broken, little mud		6 "	3"	316'	Ом
SHALE, sandy, coal partings 317'	1'	0"	_	3171	0 "
SANDSTONE, shaly, fine grain, dip					
5-10° few coal partings	12'	6*	-	3291	6 *
SANDSTONE, light, medium grained	7 '	0"	6 "	336 *	6 7
SANDSTONE, shaly, dip 150	41	0"	-	340 1	6 #
SANDSTONE, light and dark, medium and					
fine grain, dip 120		0"	-	342'	
SHALE, sandy, coal partings 344'	21	6 T	3"	345'	
SANDSTONE, fine and medium	_	6 "	-	346	6 11
SANDSTONE, light, massive coarse, very	coarse	9			
352 - 56	10'	6 "	21 07	357 t	
SHALE, sandy, dip 100		Ο"	-	3621	
SANDSTONE, few shaly beds, fine grained	. 21	0 #	-	364	
SANDSTONE, coarse, lowest 6" fine grain	ed 3'	6 "	3"	367	
SANDSTONE, light, coarse massive, dip l			6 "	394	
SANDSTONE, light, coarse massive	_	6"		403	
SANDSTONE, shaly		0"	-	405	0π
SANDSTONE, shaly, poorly sorted, few co	al				
partings		0"	-	412	
SHALE, with abundant coal partings	_	6 m		413'	
COAL, $(2\frac{1}{2}$ bone 2 seams), dip 130		6"	3"	415'	
COAL, (5" bone 5 seams)		0"	6 **	417'	
COAL, (1" bone 1 seam)		0"	94		
COAL, (4" bone 3 seams)	21	0"	1, 3,	421'	0"
SHALE, with abundant coal partings 2"			- 49		~ **
coal		0"	9"	4231	
SANDSTONE, shaly, dip 100	1"	0"	-	4241	Ои
CONGLOMERATE, few sandy beds, very					
coarse at base	17'	9"	6 ¹¹	441	9"
SHALE, black, fissile, broken, few coal		~~ **			
partings	1'	3"	-	443	0 "

J.M. Black

Asst. Mining Engineer

LOG OF #5, D.D.H. MERRITT, B.C.

SHALE, sandy, few coal partings, dip 50	_	0 #	-	451'	0#
SANDSTONE, light and dark, medium and fine					
grain few shaly beds, dip 5-200	L91	0"	21 0"	470	0*
SHALE, sandy, many leaf impressions,					
dip 18°	61	0"	3"	476	O PF
SHALE, few sandy beds, many coal partings	•	•	U	2.70	•
two if good and broken and					
two 1" seams coal, broken and		A #	O1 0#	403.	~ =
slickensided	יכ	0"	21 0"	481'	0"
SHALE, and coal broken, probable loss					
of coal 5' - 6'	91	0"	71 011	4901	0"
SANDSTONE, medium grain, few shale beds	31	0 11	3#	4931	0#
SHALE, sandy, much broken	2:	6"	_	495	
SANDSTONE, fine grained, broken		0"	3"	4981	
	_	Ö#	J	4991	-
SHALE, dark	Τ,	0		422.	0
SANDSTONE, dark and light, fine grained,	_		,		- **
thin bedded, broken, dips to 350	_	6"	3"	504	
SANDSTONE, grey, massive, medium grained	41	6 "	-	5081	6 "
SANDSTONE, thin bedded, fine grained,					
dip 250	41	6 #	_	513'	OĦ
SHALE, sandy		64	_	515'	-
	~	5	_	0.4.0	9
SANDSTONE, dark, fine grained, some shale	4 +	c ••		E00 *	A ##
beds, broken	4'	6 **	-	520	0"

J.M. Black

Asst. Mining Engineer

LOG OF MERRITT D.D.H. #5

SANDSTONE,	dark and light, thin bedded,						
·	upper part broken, dip 300	10'	0"	•	-	530'	0"
SANDSTONE,	light and dark broken, dip						
	25-30°	51	0"	•	-	5351	0"
SANDSTONE,	light, coarse, massive, fine						
	at 540', conglomerate at						
	543', dip 350	151	0"	l'	-	550 '	-
SANDSTONE,	coarse, broken	51	0 "	31	0"	5551	0#

J.M. Black

Asst. Mining Engineer

Ended July 30, 1946.

LOG OF DRILL HOLE #5, MERRITT, B.C.

Elevation 1975, approximately 471 N 280 W from Hole #1. Started July 18, 1946.

Clay and boulders

1781

	Thickness		Core <u>Missing</u>	Depth	
SANDSTONE, light, medium to coarse grain dip 10°, few shaly	4.	0*		1821 (. #
SANDSTONE, light, medium to coarse, massive, getting shaly		U	•	102. (,
towards base	81	0#	•	1901 () =
SHALE, dark, many coal partings,					
- :	21	0"	11"	1921	7 #
- · · · · · · · · · · · · · · · · · · ·	ε.	6*	_**	192' 6	
SHALE, with many coal partings COAL, with little shale		6"	_	193' (
SHALE, with many coal partings		4 m	_	193	
SHALE, dark grey with few coal partings	61	8"	8"	2001	
SHALE, mud, and coal particles		0"	1* 6"	2021	
SHALE, dark grey, few coal partings,	_	•	- 7		
few sandy beds, dip 50 - 100	5*	0#	3#	2071 (חים כ
SHALE, dark grey		ž"	•	2091	
SALDSTONE, light, medium to fine grain,					
massive, shaly at 212'.	71	9"	6#	2171 (0"
SANDSTONE, light, medium grain	91	0"	6 ¹¹	226 1 (0 "
SANDSTONE, light massive, medium to					
coarse	10'	2"	•	2361	2"
SHALE, dark grey, few coal partings					
sandy towards base	41	10"	3 *	241'	0"
SANDSTONE, light, medium grained, few					
shale beds		0"		244	
SMALE, dark grey		0"	3"	246 (_
SHALE, dark grey mud seam 249 6"	4*	6"	3"	2501	6"
SANDSTONE, light grey, fine-medium				0501	_ =
grain, massive	51	6 "	-	256 1	U
SANDSTONE, light and dark, few shale		a w		0011	c 11
beds dip 100	51	6 n	-	261'	b "
SHALE, dark and medium Grey, few sandy		<i>c</i> ••	C 11	one t	A #
beds, dip 0° - 20°	14'	-	6 ⁿ	276 t (_
SHALE, dark, broken at 277		6" 0"	- 6"	2791	
MUD, shale, coal	_	6"	.	2831	
SHALE, dark	J.	U	-	200	•

SHALE, medium to dark grey, fractured SANDSTONE, dark and light, medium to	61	0*	• .	2891	0*
fine grain, dip 250	41	9#	3"	293	9*
SHALE, dark	11	3"	•	295	0"
SANDSTONE, medium grain thin bedded	31	6"	1' 0"	2981	6"
SANDSTONE, coarse, massive	41	0"	•	302	6*
SANDSTONE, grey, medium to fine grain					
broken at 303 6 6, dip 306	31	6 *	5 ¹¹	306	0"
SHALE, dark grey some sandy beds coal					
partings at 306 6"	4*	6 "	6 "	310'	6 *

J.M. Black

Asst. Mining Engineer

LOG OF DRILL HOLE #5. MERRITT. B.C.

i				310	6 #
SHALE, grey	21	0*	-	3121	
SHALE, grey, broken, little mud	51	6 **	3"	316	0"
SHALE, sandy, coal partings 317		07		317	O **
SANDSTONE, shaly, fine grain, dip					
5-100 few coal partings	12'	6*	•	3291	6 *
SANDSTONE, light, medium grained	71	0"	6*	3361	6 *
SANDSTONE, shaly, dip 150	41	0"	•	340*	6"
SANDSTONE, light and dark, medium and					
fine grain, dip 120	21	0*	•	342	6 7
SHALE, sandy, coal partings 344	21	6 *	3"	345	OM
SANDSTONE, fine and medium	1'	6 m	-	346	6*
SANDSTONE, light, massive coarse, very	coars	8			
352 - 56	10'		21 0"	357	0*
SHALE, sandy, dip 100	51	0"	-	362	0"
SANDSTONE, few shaly beds, fine grained	1 2'	07	•	3541	0"
SANDSTONE, coarse, lowest 6" fine grain	ned 3°	6 *	3"		
SANDSTONE, light, coarse massive, dip	L3 0 271	0"	6*	394	6 *
SANDSTONE, light, coarse massive	81	67	•	403	0"
SANDSTONE, shaly		0 #	•	405	0
SANDSTONE, shaly, poorly sorted, few co	al				
partings	7 1	0"	-	412	
SHALE, with abundant coal partings		6 * *	•	413'	
COAL, (21 bone 2 seams), dip 130		6 "	3"	415	
COAL, (5" bone 5 seams)		0"	6 "		
COAL, (1" bone 1 seam)		0"		419	
COAL, (4" bone 3 seams)	21	0"	1' 3"	421	0"
SHALE, with abundant coal partings 2"					
coal	21	0 "	9#	4231	-
SAMDSTONE, shaly, dip 100	1'	0"	-	424	0"
CONGLOMERATE, few sandy beds, very					
coarse at base	17'	9"	6 "	441	9"
SHALE, black, fissile, broken, few coal					
partings	1'	3"	-	443	0 "

J.M. Black

Asst. Mining Engineer

LOG OF #5, D.D.H. MERRITT, B.C.

SHALE, sandy, few coal partings, dip 50		0"	<u>.</u>	451	0*
SANDSTONE, light and dark, medium and fine		_ ==			
	L9'	0"	2 0"	470°	0=
SHALE, sandy, many leaf impressions,					
dip 188	6	0=	3*	476	0*
SHALE, few sandy beds, many coal partings					
two 1" seams coal, broken and					
slickensided	51	0"	2 0 0 "	481	0"
SHALE, and coal broken, probable loss					
of coal 5' - 6'	91	0"	7 0	490	0"
SANDSTONE, medium grain, few shale beds	_	0"	3"	493	-
SHALE, sandy, much broken	-	6"	•	4951	_
SANDSTONE, fine grained, broken	_	Ö#	3*	498	
SHALE, dark	_	ŏ#	_	499	
SANDSTONE, dark and light, fine grained,	_	•	_	740	•
thin bedded, broken, dips to 350	4	6"	3"	504	ΩĦ
SANDSTONE, grey, massive, medium grained	_	6#		508	
	÷ .	0	-	200.	0
SANDSTONE, thin bedded, fine grained,		a #		E3 7 \$	A #
dip 250	_	6"	-	513	
SHALE, sandy	21	6 ^m	-	515	5™
SANDSTONE, dark, fine grained, some shale					
beds, broken	4	6 "	-	520	OM

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Asst. Mining Engineer

LOG OF MERRITT D.D.H. #5

SANDSTONE,	dark and light, thin bedded, upper part broken, dip 300	10*	Oπ	_	530 1	O.M
SANDSTONK.	light and dark broken, dip	20	U .	_	000	~
	25-300	51	0#	-	5351	0"
SANDSTONE,	light, coarse, massive, fine					
•	at 540°, conglomerate at					
•	543°, dip 35°	15	-	1, 0,		-
SANDSTONE,	coarse, broken	51	0.	31 0	* 5 55 †	0×

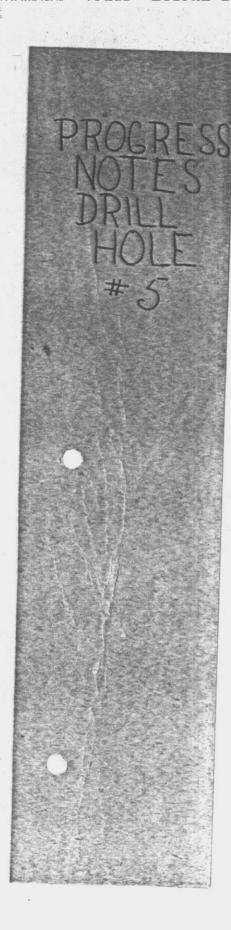
J.M. Black

Asst. Mining Engineer

Ended July 30, 1946.

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LOG OF MERRITT D.D.H. #5

SANDSTONE,	dark and light, thin bedded, upper part broken, dip 30	10, 0,	_	5301	ΩĦ
SANDSTONE.	light and dark broken, dip 25-30°			5351	
SANDSTONE.	light, coarse, massive, fine at	, •		,,,	•
•,,	540°, conglomerate at 543°, dip 35°	15' 0" 1'			
SANDSTONE,	coarse, broken	51 07 31	0=	5551	O.

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LOG OF #5, D.D.H. MERRITT, B.C.

SHALE, sandy, few coal partings, dip 50	81	0#		_	4511	0"
SANDSTONE, light and dark, medium and fine grain few shaly beds, dip 5-200	191	0#	21	0=	4701	o#
SHALE, sandy, many leaf impressions, dip 100	61	٥٣	_	3"	4701 4761	0"
SHALE, few sandy beds, many coal partings two 1" seams coal, broken and slickensided	51	0#	21	0*	4811	0"
SHALE, and coal borken, probable loss of coal	91	Om	71	0#	4901	O#
SANDSTONE, medium grain, few shale beds	31	Ou		3"	4931	O#
SHALE, sandy, much broken	21	6 n		-	4951	6
SANDSTONE, fine grained, broken	31	O#		3"	4981	6#
SHALE, dark	11	Oπ		-	4991	6 n
SANDSTONE, dark and light, fine grained, thin					•	
bedded, broken, dips to 350	41	611		3#	504	0 **
SANDSTONE, grey, massive, medium grained	41	611		_	4081	6™
SANDSTONE, thin bedded, fine grained, dip 250	41	6×		_	5131	O#
SHALE, sandy		64			5151	
SandSTONE, dark, fine grained, some shale beds,	_	_				
broken	41	6 n		-	5201	Om

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Asst. Mining Engineer

LOG OF DRILL HOLE #5, MERRITT, B.C.

•					
				310'	6×
SHALE, grey	21	O.	-	3121	6 m
SHALE, grey, broken, little mud	31	6=	3"	3161	0#
SHALE, sandy, coal partings 317	11	0"		3171	
SANDSTONE, shaly, fine grain, dip 5-100 few coal	_			/	
partings	121	611	•	3291	6#
SANDSTONE, light, medium grained		0×	611	3361	
SANDSTONE, shaly, dip 150	ÁT	O#		3401	
SANDSTONE, light and dark, medium and fine grain,	•		_	740	•
dip 120	21	Om	-	3421	6 11
SHALE, sandy, coal partings 344		6 m		3451	
SANDSTONE, fine and medium		6"			
SANDSTONE, light, massive coarse, very coarse	_	•	_	740	•
352 - 56 _	101	6 M	210#	3571	ΩĦ
SHALE, sandy, dip 100		0"	Z · U	ニンニュ	
	2:	0"	_	3641	
SANDSTONE, few shaly beas, fine grained	7 1	7 m	- 7 H	3671	Ç #
SANDSTONE, coarse, lowest 6" fine grained	2.	6"	2"	201	0" (#
SANDSTONE, light, coarse massive, dip 130	27!	0"	0"	3941	
SANDSTONE, light, coarse massive					
SANDSTONE, shaly		0 **		4051	
SANDSTONE, shaly, poorly sorted, few coal partings	3 7	0"	-	4121	-
SHALE, with abundant coal partings	1'	6 H	-	413!	6#
COAL, $(2\frac{1}{8}$ bone 2 seams), dip 13°		6 n		4151	On.
COAL, (5" bone 5 seams)		Ou		4171	
COAL, (1" bone 1 seam)		O _H		4191	
COAL, (4" bone 3 seams)				421	
SHALE, with abundant coal partings 2" coal		O n		4231	Ou
SANDSTONE, shaly, dip 100	_	Οn		4241	0#
CONGLOMERATE, few sandy beds, very coarse at base	171	9"	6n	4411	9 11
SHALE, black, fissile, broken, few coal partings	1'	3"	-	4431	O۳

J.M. Black

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Asst. Mining Engineer

SHALE, medium to dark grey, fractured SANDSTONE, dark and light, medium to	61	Ow		-	2891	0#
SANDSTONE, dark and light, medium to fine grain, dip 25	41	9#		3 m	2931	9*
SHALE, dark	11			-	2951	0*
SANDSTONE, medium grain thin bedded	31	6#	1'	O#	2981	6#
SANDSTONE, course, massive	41	O m		-	3021	6n
SANDSTONE, grey, medium to fine grain					-	
broken at 303 6 6, dip 300	31	6"		6н	306₹	0"
SHALE, derk grey some sandy beds coal	•				-	
partings at 306' 6"	41	6 n		6 m	310	6 n

J.M. Black

Asst. Mining Engineer

LOG OF DRILL HOLE #5. MERRITT. B.C.

Elevation 1975, approximately 471 N 28° W from Hole #1. Started July 18, 1946.

Clay and boulders

1781

	Thickness M			Core	Dept	h
	THICE	теор	N: 1	ssing	<u>nepu</u>	7
SANDSTONE, light, medium to course grain dip 10°, few shaly beds	41	O#	me i	_	1821	9*
SANDSTONE, light, medium to course, massive, getting shaly	81					^=
towards base SHALE, dark, many coal partings, some pyrite 9")	0'	U"		-	1901	0"
some pyrite 9") COAL, 4") SHALE, with many coal partings	21	0 н		11 ⁿ	192† 1 92 †	_
COAL, with little shale		6n 4n		•	1931	0"
SHALE, with many coal partings SHALE, dark grey with few coal paris	ngs6!	Ŕ#	, ,	8,4	1931	On
SHALE, mud, and coal particles SHALE, dark grey, few coal partings	. 21	O"	1'	6 n	2021	0"
few sandy beds, dip 50 - 100 SHALE, dark grey	51 21	-		3"	2071	
SANDSTONE, light, medium to fine gramassive, shaly at 212'.	-			6 m	2171	-
SANDSTONE, light, medium grain	91	•		9 u	2261	
SANDSTONE, light massive, medium to course	101	2#		-	2361	2#
SHALE, dark grey, few coal partings sandy towards base	41	10#		3 ¹¹	241	On
SANDSTONE, light, medium grained, for shale beds	w 31	On		•	2441	On
SHALE, dark grey mud seam 249' 6"	21 41	Oa		3" 3"	2461 2501	
SANDSTONF, light grey, fine-medium		_		,		
grain, massive SANDSTONE, light and dark, few shale	5† e	_		-	2561	
beds dip 10 SHALE, dark and medium grey, few sar	5 † ndy	6 "			261	6π
beds, dip 0° - 20° SHALE, dark, broken at 277°	141	-		6"	2761 2781	
MUD, shale, coal	1,	Ou		6"	2791	611
SHALE, dark	31	ρ "		-	283	0"

PROGRESS REPORT, MERRITT D.D.H. #5. July 29-30

July 29

Morning shift Afternoon Graveyard Coring to 530 Coring to 550 Reaming out to 550

July 30

Morning shift to 10 a.m.

555

J.M. Black

PROGRESS REPORT, MERRITT D.D.H. #5, July 27-29

July 27

Morning shift
Afternoon
Graveyard

Coring to 451
Coring to 470
Coring to 481

July 28

Morning shift
Afternoon
Graveyard

Coring to 493
Coring to 503
Coring to 513

July 29

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Morning to 10 s.m. Coring to 520

J.M. Black

PROGRESS REPORT MERRITT D.D.H. #5. July 25-27

July 25

Morning shift Coring to 327
Afternoon Coring to 357
Graveyard Coring to 374

July 26

Morning shift Coring to 395
Afternoon Coring to 417
Graveyard Coring to 439

July 27

Morning to 10 a.m. Coring to 443

J.M. Black

PROGRESS REPORT MERRITT D.D.H. #5, July 23-25

July 23

Morning shift:	Coring to 194
Afternoon	Coring to 217
Graveyard	Coring to 246
	July 24
Morning shift	Coring to 266
Afternoon	Coring to 283
Graveyard	Coring to 302
	July 25

Morning to noon

J.M. Black Asst. Min. Engr.

Coring to 311

PROGRESS REPORT MERRITT D.D.H. #5. July 17 - 23.

July 17

Setting up.

July 18

Till 2 p.m. completing set up.

Afternoon shift Graveyard shift

Casing to 30 Casing to 60

July 19

Morning shift afternoon shift

Casing to 80 Casing to 110

July 20

Morning shift
Afternoon not drilling

Casing to 140

July 21

Morning not drilling Afternoon shift

Casing to 160

July 22

Morning shift Afternoon shift

(

Casing to 170 Casing to 175 Bedrock 178

July 23

Morning to noon

Coring to 182

J.M. Black

Morritt, B.C.

Log of D.D.H. #6. Drilled August 1946.

Located approx. 680' N 420 30' E (True) from Hole #4 Elevation approx. 1985'

Core examined October 4, 1946

Overburden		210' 6"	-
Shale, sandy	Core		Depth 213
Shale and sandstone	2*		215*
Sandstone, grey, fine grained few shaly			
beds	41 6	n	219 6*
Shale, sandy, grey	5* 61		2251
Sanustone, light, fine grained			220
Dip 15-200	9+		2341
	41		238*
Shale, grey, sandy	5* 9		243 9
Sandstone, light, fine Grained, massive	2, 8	.	243. 9
Sandstone and shale, interbedued	~* ~	-	
Dip 5-10°	51 31	П	2491
Sandatone, massive, few shaly beds			_
254-255 grading to very coarse	7 2		256 *
at base			
Shale, grey sandy with sandy interbeds	4.		2601
Shale, dark, few sandy beds	101		270*
Coal	6	Ħ	270 8"
Shale sandy	11 6		272
Sandstone, grey, massive, few shaly			
beds	31		275*
Sandstone, grading down to shale	51		2801
Condatano fino et ten mundina deum te	J.		200
Sandstone, fine at top grading down to	0.1		289*
coarse and ma sive at base	91		'
Conglomerate	J,		290
Sandstone, light, massive, medium to	-		
coarse with conclomerate beds	24		314
Shale, dark, some sandy beds, abundant			_
coal partings at 325	12'		326
Shale, with many sandy interbeds	51		3 31 °
Coaly partings	6	F7	331 6
Sandstone, grey thin bedded, fine graine	đ		
Dips 5-10°	21 6	##	3341
Coal partings	1'		3351
Shale, grey, sandy	21		337 1
Shale, broken and slickensided, some	~		
coal partings	61		3431
Shale, dark with coal partings	81		351 i
	6		001.
Shale grey and cetting very sandy at	e •		rec.
base	51		556 '
Shale, grey	21		358 '
Shale, dark, with coal partings	1' 5	11	359 ' 3"
Sandstone, light, medium grained, few			
coal streaks	7 9	ff .	367

Conglomerate, light, mostly fine grain, some medium fairly coarse	gaŧ				435 †	
at 370-71, 375-76, 404-05	60,				400.	
Sandstone, light medium grain, few	304					^=
coal partings	10				4451	y-
Sandstone, light, fine grain	1,	3"			447	
Shale, dark few coal partings	1'	6 **			4481	6*
Coal and shale	1.	6*		1.	450	
Shale, dark, broken	21		1.	6 **	4521	
Shale, grey with coal partings	1.			6 #	4531	
Coal, 4" bone in 2 seams	2 *				455*	
Shale with 4" coal	1.				456	
Coal with 7" bone in 6 seams	3*			-21	4591	
Coal with 9" bone in 7 seams Dip 10°	2*	67			461	6*
Shale with abundant coal partings	31	6"			465	
Shale, grey	4.				469	

J.M. Black

PC

COPY OF LOG OF NO. 11 HOLE, DIAMOND VALE COLLIERIES.

Location near centre of N.W. quarter Section 14, Tp. 91 Elevation of surface, 1978.47 Started March 30th, 1909.

	•			
	Th1	ckness	Dept	<u>th</u>
Sand and clay Coarse gravel with clay and sand Sand Coarse gravel Clay and gravel	16 10' 1 4 64	7** 0 4 8 BEDR	26 ° 27 31 96	7** 11 11
Conglomerate Sandy shale Coarse sandstone	5 4 8	4 0 3	101 105 113	5 5 8
Conglomerate Light sandy shale Dark sandy shale	1 7 3	2 8 1)	114 122 126	8 4 2
Light sandy shale	.10	Ő	136 137 138	2 2 2
Dark sandy shale Conglomerate Sandstone	5	6 11 7	143 144 146	8 7 2
Sandy shale Conglomerate Light sandy shale	. 1 5 5	2 2 0	151 156 158	2
Conclomerate Dark brown shale with coll markings Sandy shale	. 1	10 3 0	100 161 164	3
Sindstone Sandy shale Conglomerate	2 1 2 5	0 9 3	166 168 170	0 3
Sandy shale Sandstone	. 1	6	175 176 177	ð ð
Conglomerate Dark sandy shale Conglomerate	3 5 1	0 0 6	190 185	
Sandy shale Conglomerate	. 1	6 0	191	9
Sandstone Dark sandy shale Conglomerate	3 1 1 1	-	_ · _ ·	•
Dork sandy shale		•••	196	9
Sandstone (dip 47 degrees) Sandy shale Dark sundy shale with co 1 m rks	1 5 1 0 2	يَـ 0	206 208	1
Dark sindy shife with so in res Unndy shife Dark sindy shife	6	4	258	5

	Th1	okne as	Bent	ħ
Sandstone	1			_
Dark sandy shale	5		234	5
Light sandy shale	3 2 2 3 2	• • •	•	
Dark sendy shale	E		241	
Sandstone (dip 38 degrees)	<u>z</u> .	3	244	. 5 8
Light sandy shale (dip 30 degrees) Dark sandy shale	9	J	26.2	9
Sandy shale	Ã		254	8
Dark sondy shale	3		201	•
Light sandy shale	5		262	8
Sandstone (dip 22 degrees)	8		-	
Dark sandy shale	9	6	280	2
Sandstone (dip 14 degrees)	9			
Light sandy shale (dip 14 degrees)	8			_
Dark sandy shale	5		302	2
CO/L	8 5 2	9	30 3	11
Dark brown shale		5		_
Dark sandy shale	13		319	4
Sandstone	1			
Sandy shale	2 8		. 330	0
Sandstone (dip 15 degrees)	13	6	, 200	U
Dark sandy shale Sandstone	13	6		
Sandy shale		Õ		t
Sandstone	ĩ	•		
wark sandy shale	2 1 5 2 4		. 353	4
Sandstone	2	• •	•	
Sandy shile	4.			
Dark sandy shale	6			
Sandstone	1	6		
Dark sandy shale	1	3		_
Sandstone	4 2	• •	. 372	1
Conclomerate				
Sandy shele	4			
Conglomerate	2	3	. 392	1
Sandstone	2	y	• ವ೪೭	1.
Conclomerate Sandstone	ຂ			
Light sandy shale	6			
Sandstone	2			
Coarse conglomerate			. 419	1
Dark sendy shale (dip 15 degrees)	89	8	427	9
Sandstone	\mathfrak{L}			
Dark sendy shale (dip 27-30 degrees)	6			
	11	• •	. 4 40	9
Sandstone (dip 33-20 degrees) Light sandy shale	••• <u>5</u>			
Dark sandy shale	1			
Conglomerate	<u>រ</u> 3			
Dark shale with cool marks	i i	_	4	_
Dark shale with cost marks	••• 4		. 409	9
Dark sond sinde	2	10		

	Thi	ckness	Dept	À
COAL	1	44		
COAL, bony	••	3		
COAL hony	2	41		
CA:40 F CAWA		8		_
COAL			472	1
Dark brown sandy shale	2	5 9		
COAL Bark brown shele	•• 1	10		
COAL	-	6 <u>}</u>		
Dark brown shale	• •	72		
· CO/1	1	6	479	7
Dark brown shale, coul markings	3	4	482	11
COAL		7		
Dark brown shale occasional coal streaks	9	3 2		
COAL Derk brown shale		4		
COAL		4		
Brown shale		ž		
COAL	•••	6		
Brown shale	- 4	6		
light sandy shale (dip 20 degrees)	14	3		
Sandstone Light sandy shale	9 8	10		
CO L		8		
Sandy shale	ı	•		
COAL	-	3		
Light sandy shale	38	9	568	
Sandstone	11			
Light sandy shale	5			
Sendstone (dip 25 degrees)	18	9	610	4
Light sandy shale (dip 18 de rees)	• •	•	010	-
CO L, bony 6"	13	2	638	3
COAL 6'3"		• • •		
Dark brown shale	3	6		
CO'L	3	8		
Dark brown shale	3 7 2			
Light sandy shule Sandstone	1			
Light sandy shale	2	6		
COIL		10	658	9
Light sindy shale	8	4		
Dark sandy shale	2	^		
Sandstone	32	C		
Dark sandy shale	5			
COL 1' 10") CCLL, bony 2")				
COLL 9")	4 h	9	709	4
bark sandy shale	6	9	- -	-
Light soudy shale	9			

	Thickness Depth
Sand stone	5
Light sandy shale	2 · · · · · · · · · · · · · · · · · · ·
Sandstone	11 6
Sandstone	2
Light sandy shale	3 750 Y

Original log apparently signed by Alfred T. Wall, Benjamin Browitt, and N.L. Wimmler.

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COPY OF LOG OF NO. 11 HOLE, DIAMOND VALE COLLIERIES.

Location near centre of N.W. quarter Section 14, Tp. 91 Elevation of surface, 1976.47 Started March 30th, 1909.

Sand and clay 16 Coarse gravel with clay and sand 10' 7" 26' 7" Sand 1 0 27 Coarse gravel 4 4 31 11 Clay and gravel 64 2 96 11 BEDROCK Conglomerate 5 4 101 5 Sandy shale 4 0 105 5 Coarse sandstone 8 3 113 8 Conglomerate 1 2 114 8 Light sandy shale 7 8 122 4 Dark sandy shale 3 10 126 2 Light sandy shale 10 0 136 2 Conglomerate 1 137 2 Light sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 151 2 Conglomerate 5 2 151 2
Clay and gravel 64 2 96 11 BEDROCK BEDROCK 101 5 Conglomerate 4 0 105 5 Coarse sandstone 8 3 113 8 Conglomerate 1 2 114 8 Light sandy shale 7 8 122 4 Dark sandy shale 3 10 126 2 Light sandy shale 1 137 2 Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2<
BEDROCK Conglomerate 5 4 101 5 Sandy shale 4 0 105 5 Coarse sandstone 8 3 113 8 Conglomerate 1 2 114 8 Light sandy shale 7 8 122 4 Dark sandy shale 3 10 126 2 Light sandy shale 10 0 136 2 Conglomerate 1 137 2 Light sandy shale 1 138 2 Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 5 6 143 8 Conglomerate 5 2 151 2 Conglomerate 5 2 156 Conglomerate
Sandy shale 4 0 105 5 Coarse sandstone 8 3 113 8 Conglomerate 1 2 114 8 Light sandy shale 7 8 122 4 Dark sandy shale 3 10 126 2 Light sandy shale 10 0 136 2 Conglomerate 1 137 2 Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandy shale 5 2 151 2 Conglomerate 5 2 151 2
Coarse sandstone 8 3 113 8 Conglomerate 1 2 114 8 Light sandy shale 7 8 122 4 Dark sandy shale 3 10 126 2 Light sandy shale 1 137 2 Conglomerate 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Conglomerate 1 2 114 8 Light sandy shale 7 8 122 4 Dark sandy shale 3 10 126 2 Light sandy shale 1 137 2 Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Light sandy shale 7 8 122 4 Dark sandy shale 3 10 126 2 Light sandy shale 10 0 136 2 Conglomerate 1 137 2 Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Dark sandy shale 3 10 126 2 Light sandy shale 10 0 136 2 Conglomerate 1 137 2 Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Light sandy shale 1 138 2 Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Dark sandy shale 5 6 143 8 Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Conglomerate 0 11 144 7 Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Sandstone 1 7 146 2 Sandy shale 5 2 151 2 Conglomerate 5 2 156
Sandy shale 5 2 151 2 Conglomerate 5 2 156
Conglomerate 5 2 156
Light sandy shale 2 0 158
Conglomerate 1 10 160 0
Dark brown shale with coal markings 1 3 161 3
Sandy shale 3 0 164
Sandstone 2 0 166
Sandstone 2 0 166 Sandy shale 1 9 168 0 Conglomerate 2 3 170 3
Conglomerate 2 3 170 3
Sandy shale 5 6 175 9
Sandstone 1 0 176 9
Sandy shale (dip 20 degrees) 1 0 177
Conglomerate 3 0 180
Conglomerate 3 0 180 Dark sandy shale 5 0 185 Conglomerate 1 6
- min 1 01 min 2
Conglomerate
Dark sandy shale with coal marks 3 0 191 9
Sandstone 1 Dark sandy shale 1 Conglomerate 1
Dark sandy shale
Conglomerate 1 196 9
Dark sandy shale
Dark sandy shale
Sandy shale 5 4 206 1
Dark sandy shale with coal marks 2 0 208 1
Sandy shale
Dark sandy shale 14 4 228 5

	Thick	ness	Dept	<u>h</u>
Sandstone Dark sandy shale Light sandy shale	1 5 . 3	•••	234	5
Dark sandy shale Sandstone (dip 38 degrees) Light sandy shale (dip 30 degrees)	2 2 3	3	241 244	5 8
Dark sandy shale Sandy shale	2 8		254	8
Dark sandy shale Light sandy shale	3 . 5	• • •	262	8
Sandstone (dip 22 degrees) Dark sandy shale Sandstone (dip 14 degrees)	8 9 9	6	280	2
Light sandy shale (dip 14 degrees) Dark sandy shale COAL	9 8 5 . 1	9	302 303	2 11
Dark brown shale Dark sandy shale Sandstone	2 13 1 2	5	319	4
Sandy shale Sandstone (dip 15 degrees) Dark sandy shale Sandstone	. 8 13	6 6 0	330	0
Sandy shale Sandstone Dark sandy shale	1 2 1 . 5 2 4	•••	353	4
Dark sandy shale Sandstone Dark sandy shale	4 6 1 • 1 4 2	6 3	372	1
Sandy shale Conglomerate Sandstone	4 2 .11	3 9	392	1
Conglomerate Sandstone Light sandy shale Sandstone	2 6 2			
Sandstone	8) 2	8	419 427	9
Dark sandy shale (dip 27-38 degrees) Sandstone (dip 33-20 degrees) Light sandy shale	6 11 . 3 7	• • •	446	9
Dark sandy shale Conglomerate Dark shale with coal marks COAL	1 3 4	0 10	. 4 6 9	9

COAL		Thi	ckne:	38	Deptl	ā
COAL, bony COAL COAL Dark brown sandy shale COAL Dark brown shale, coal markings COAL Dark brown shale occasional coal streaks COAL Dark brown shale COAL Dark brown shale COAL Dark brown shale COAL Dark brown shale COAL Brown shale COAL Brown shale COAL Brown shale Light sandy shale (dip 20 degrees) Light sandy shale COAL COAL COAL COAL COAL COAL Brown shale COAL Brown shale COAL Brown shale Light sandy shale COAL C	COAL, bony		3			
COAL	·	2				
Sandy shale Sandy shale Sandstone	COAL	•	4		472	1
Dark brown shale						
COAL						
COAL Dark brown shale, coal markings COAL TOAL Dark brown shale occasional coal streaks COAL Dark brown shale occasional coal streaks COAL Dark brown shale COAL Brown shale Light sandy shale (dip 20 degrees) Light sandy shale COAL COAL COAL COAL COAL COAL COAL COAL	COAL					
Dark brown shale, coal markings 3 4 482 11 COAL 7 <td>Dark brown shale</td> <td></td> <td></td> <td></td> <td>• • •</td> <td>_</td>	Dark brown shale				• • •	_
Dark brown shale occasional coal streaks 9 3 COAL 2 Dark brown shale COAL 4 4 COAL 4 4 COAL 4 4 COAL 6 5 5 COAL 5 7 Dark sandy shale (dip 20 degrees) 14 3 COAL 5 7 Dark brown shale 1 1 COAL 5 5 COAL 5 7 Dark brown shale 5 COAL 5 7 Dark brown shale 6 COAL 5 7 Dark brown shale 6 COAL 5 7 Dark brown shale 6 COAL 5 7 Dark brown shale 7 COAL 5 7 Dark sandy shale 8 Dark sandy shale 9 Dark sandy shale 9 Dark sandy	Dark brown shale, coal markings		4	•••		•
Dark brown shale COAL Brown shale COAL COAL Brown shale COAL Brown shale Light sandy shale (dip 20 degrees) Light sandy shale COAL COAL COAL COAL Light sandy shale Sandstone Light sandy shale Sandstone Light sandy shale Sandstone Light sandy shale Sandstone Light sandy shale COAL C	Dark brown shale occasional coal streaks	9	3			
Brown shale COAL			4			
COAL 6 Brown shale Light sandy shale (dip 20 degrees) 14 3 Sandstone 9 Light sandy shale 8 10 COAL 8 Sandy shale 1 2 COAL 3 3 Light sandy shale 38 9 568 Sandstone 11 Light sandy shale 5 Sandstone 11 Light sandy shale 5 Sandstone (dip 25 degrees) 18 Light sandy shale (dip 18 degrees) 9 610 4 COAL 6'5" COAL 6'5" COAL 6'3" Dark brown shale 3 6 COAL 6'3" Dark brown shale 7 Light sandy shale 2 Sandstone 1 Light sandy shale 2 Sandstone 1 Light sandy shale 2 Sandstone 1 Light sandy shale 2 Sandstone 32 6 Dark sandy shale 2 Sandstone 32 6 Dark sandy shale 5 COAL 1' 10") COAL 9") COAL 9"			4			
Brown shale Light sandy shale (dip 20 degrees) 14 3 Sandstone 9 Light sandy shale 8 10 COAL 8 Sandy shale 1 3 Light sandy shale 38 9 568 Sandstone 11 Light sandy shale 5 Sandstone (dip 25 degrees) 18 Light sandy shale (dip 18 degrees) 9 610 4 COAL 6'5" COAL 6'5" COAL 6'3" Dark brown shale 3 6 COAL 6'3" Dark brown shale 7 Light sandy shale 7 Light sandy shale 7 Light sandy shale 9 Sandstone 1 1 Light sandy shale 2 6 COAL 6'3" Dark brown shale 2 6 COAL 5 5 6 7 COAL 6 7 7 COAL 6 7 8 Dark brown shale 2 6 COAL 1 1 10" COAL 1 10" COAL 1 10" COAL 9" C						
Light sandy shale (dip 20 degrees) 14 3 Sandstone 9 Light sandy shale 8 10 COAL 8 Sandy shale 1 38 9 568 Sandstone 11 Light sandy shale 5 Sandstone 11 Light sandy shale 5 Sandstone (dip 25 degrees) 18 Light sandy shale (dip 18 degrees) 9 610 4 COAL 6'5" COAL 6'5" COAL 6'3" Dark brown shale 3 6 COAL 6'3" Dark brown shale 7 Light sandy shale 7 Light sandy shale 2 Sandstone 1 Light sandy shale 2 Sandstone 2 Sandstone 3 Light sandy shale 2 Sandstone 3 COAL 6'3" Dark sandy shale 2 Sandstone 3 COAL 1 Light sandy shale 2 Sandstone 3 COAL 1 COAL 1 COAL 1 COAL 1 COAL 1 COAL 2 COAL 3 CO		• •			•	
Sandstone 9 Light sandy shale 8 COAL 8 Sandy shale 3 COAL 3 Light sandy shale 38 9 Sandstone 11 Light sandy shale 5 Sandstone (dip 25 degrees) 18 Light sandy shale (dip 18 degrees) 9 COAL 6'5" 9 COAL, bony 6" 13 COAL 6'3" 13 Dark brown shale 3 COAL 3 Bark brown shale 2 COAL 3 Bark sandy shale 2 COAL 1 Light sandy shale 2 Sandstone 3 Dark sandy shale 2 Sandstone 3 Dark sandy shale 5 COAL 10" COAL 9"		14				
Sandy shale	Sandstone					
Sandy shale 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_				
COAL 38 9 568 Sandstone 11 Light sandy shale 5 Sandstone (dip 25 degrees) 18 Light sandy shale (dip 18 degrees) 9 610 4 COAL 6'5" COAL 6'5" COAL 6'3" Dark brown shale 3 6 6 COAL 3 8 COAL 6'3" Dark brown shale 7 Light sandy shale 2 6 COAL 10			8			
Light sandy shale Sandstone Light sandy shale Sandstone (dip 25 degrees) Light sandy shale (dip 18 degrees) Sandstone (dip 25 degrees) Light sandy shale (dip 18 degrees) Sandstone COAL 6'5" COAL 6'5" COAL 6'3" Dark brown shale COAL Sandstone Sandstone Light sandy shale COAL Light sandy shale Sandstone San		1	3			
Sandstone Light sandy shale Sandstone (dip 25 degrees) Light sandy shale (dip 18 degrees) COAL 6'5" COAL, bony 6"		38			568	
Light sandy shale Sandstone (dip 25 degrees) Light sandy shale (dip 18 degrees) COAL 6'5" COAL, bony 6"						
Light sandy shale (dip 18 degrees) 9 610 4 COAL 6'5" COAL, bony 6"	Light sandy shale					
COAL 6'5" COAL, bony 6"	Sandstone (dip 25 degrees)		_		43.0	
COAL, bony 6"	Light sandy shale (dip 18 degrees)	•	9		910	4
COAL 6'3" 3 6 Dark brown shale 3 8 Dark brown shale 7 Light sandy shale 2 6 Sandstone 10 658 9 Light sandy shale 8 4 Dark sandy shale 2 Sandstone 32 6 Dark sandy shale 5 COAL 1' 10") 2 COAL, bony 2") 2 9 709 4 Dark sandy shale 6 9	COAL b'5"	13	2		638	3
Dark brown shale COAL Dark brown shale COAL Light sandy shale Sandstone Light sandy shale COAL Light sandy shale Dark sandy shale Dark sandy shale COAL COAL Dark sandy shale		• 40	~	•••	000	•
COAL Dark brown shale Light sandy shale Sandstone Light sandy shale COAL Light sandy shale Dark sandy shale Dark sandy shale Dark sandy shale Sandstone Dark sandy shale COAL 1' 10") COAL 1' 10") COAL 2 9") COAL Dark sandy shale 6 9		3				•
Light sandy shale 2 5 and stone 1 Light sandy shale 2 6 COAL 10 658 9 Light sandy shale 8 4 Dark sandy shale 2 5 and stone 32 6 Dark sandy shale 5 COAL 1' 10") COAL 1' 10") COAL, bony 2") COAL 9") 2 9 709 4 Dark sandy shale 6 9	·	3	8			
Sandstone		7				
Light sandy shale 2 6 COAL 10 658 9 Light sandy shale 8 4 Dark sandy shale 2 Sandstone 32 6 Dark sandy shale 5 COAL 1'10") COAL 1'10") COAL 9") 2 9 709 4 Dark sandy shale 6 9		2				
COAL Light sandy shale Dark sandy shale Sandstone Dark sandy shale COAL 1'10") COAL COAL 9") COAL Dark sandy shale 6 9			6			
Light sandy shale Dark sandy shale Sandstone Dark sandy shale COAL 1' 10") COAL, bony 2") COAL 9") Dark sandy shale 6 9		2.0		• • •	658	9
Dark sandy shale 2 Sandstone 32 6 Dark sandy shale 5 COAL 1'10") COAL, bony 2") COAL 9") 2 9 709 4 Dark sandy shale 6 9		8		•		•
Sandstone 32 6 Dark sandy shale 5 COAL 1'10") COAL, bony 2") COAL 9") 2 9 709 4 Dark sandy shale 6 9		2				
COAL 1'10") COAL, bony 2") COAL 9") COAL 9") Dark sandy shale 6 9	Sandstone		6			
COAL, bony 2") COAL 9") Dark sandy shale 6 9		5				
COAL, bony 2"/ COAL 9")						
Dark sandy shale 6 9		9			700	Δ
- Carrier - Carrier	• • • • • • • • • • • • • • • • • • • •			• • •	103	*
			•			

	Thic	kness	Depth	1
Sandstone Light sandy shale Sandstone Light sandy shale Sandstone Light sandy shale	5 2 3 11 2 3	6	750	7

Original log apparently signed by Alfred T. Wall, Benjamin Browitt, and N.L. Wimmler.

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MERRITT DRILL HOLE #11.

4649	9*	COAL		
4571	70	Dark	sandy	shale
468*	114"		•	
4591	24"	COAL.	bones	7
471	70	COAL		
4711	9*	COAL	bone	Z .
4721	Ţ.	COAL	_	-
	464* 467* 468* 469* 471*	467° 7° 468° 114° 469° 24° 471° 7° 471° 9°	### Bottom ### 9° COAL ### COAL ### COAL ### COAL ### COAL ### COAL #### COAL #### COAL #### COAL #### COAL	### Bottom ### 9* COAL ### 468* 111* COAL ### COAL ### COAL ### COAL #### COAL #### COAL #### COAL #### COAL ##### COAL ###################################

Thin scal layers in shale from 482° 11" to 494° 3"

61 5"	616 9 9	COAL
6"	617 3"	COAL boney
61 3"	6231 6*	COAL

14 10*	706* 7*	CO/I	
2"	7061 9"	COAL,	ponea
9#	707 6"	CO/1,	

MERRITT DRILL HOLE #11

Thickness	Depth Bottom	of —			
hi On	4642	9"	COAL		
2 10	467	74	Dark	sandy	shale
1. 45.	4681	113"	COAL	•	
3.	4691	25*	COAL	bone	Z
21 44 8	471	7*	COAL		_
2*	471	9*	COAL	bone	Z
14 10	4721	1 "	COAL		_

Thin coal layers in shale from 482' 11" to 494' 3"

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6* 5*	6161 9"	COAL
6*	617' 3"	COAL, boney
60 30	623' 6"	COAL

1' 10"	706* 7*	COAL	
S"	706 9	COAL	boney
911	707 6	COAL	

MERRITT DRILL HOLE #11

Thickness Depth of Bottom

14.0	Om	4640	9"	COAL	
21	10*	467°	7° 114°	Dark	sandy shale
-	3*	4691	23		boney
21	45	471	7*	COAL	
	2*	471	9*	COAL	boney
	Ţŧи	4721	1"	COAL	

Thin coal layers in shale from 482' 11" to 494' 3"

61 54	616' 9"	COAL
6 w	617* 3*	COAL, boney
6* 3**	6231 64	COAL

14 10#	706 7	
2 ₁₁	706 9	* COAL, boney
9*	7071 61	COAL

Log of ten unmarked boxes of 2" diamond drill core found stored in drillers' cabin near Diamond Vale Colliery, Marritt, B. C. on September 4th, 1946.

Material.	Thickness. Ft. Ins.	Depth. Ft. Ins. 210 6.
Gray shale Gray shale Fine white sandstone Dark gray shale Interbedded shale and sandstone Course white sandstone Cray shale Cray shale Interbedded shale and sandstone Dark shale Dark shale Dark shale Interbedded shale and fine conglomer bark gray shale. Interbedded light and dark gray shale. Interbedded light and dark gray shale. Black shale intermixed with dirty constack shale with fine coal streaks. Gray shale Dark shale Course white sandstone Fine to medium, white conglomerate. Course to medium grain sandstone. Coal Gray and black shale Coal Gray and black shale Coal Coal	13 6. 13 6. 14 0. 14 0. 15 0. 16 0. 16 0. 17 0. 18 0. 10 0. 10 0. 11 0.	215 6. 219 6. 225 3. 234 0. 236 6. 250 0. 256 0. 270 2. 270 2. 270 0. 272 0. 272 0. 275 0. 275 0. 276 0. 277 0. 278 0. 278 0. 279 0. 270 0. 27
"Bone" and dirty coal. "Bone" and dirty coal. Coal. "Done". Coal. Coal. Mark in core boxFIMIS.	1 0. 1 6. 2 2. 2. 9.	453 454 5. 455 11. 458 458 459 464 0. 469

[&]quot;No. 6 Hole J.F.W."

Merritt Drilling

PROGRESS REPORT - Feb. 16 - 17th.

Feb. 16th - Day Shift: Cored 890 - 900 Night Shift " 900 - 910 Graveyard " 910 - 915

Feb. 17th - Day Shift: Cored 915 - 920; 920 - 924

Pump trouble remedied.

A new type of bit was tried on Feb. 17th. This has the water holes entering the inner surface of the bit about ‡" up from the cutting edge, the object being to allow a build-up of pressure if the bit becomes blocked. The block at 924 was quite definite; the pressure increase caused the overflow valve on the pump to release. However this cannot detect blockage and grinding in the core-tube, because the mud circuit does not pass through the tube.

The "Altamud" system appears to accomplish its chief purpose of preventing caving, though it is doubtful if it affects core recovery one way or the other. The use of "Altamud" slows up drilling to some extent because of more frequent break-downs of pumping equipment, difficulty of handling muddy rods, and the necessity of periodically diluting or replacing the mud circuit. The mud has not been found a serious hindrance in exemining the core.

Mr. Johnson expects trouble with the drill rig if this hole is continued to 1500°. According to him, he was told to make the set-up for a 600° hole, which he did. The foundations were laid on frozen ground and no mud-sills laid to anchor it. Now, with the ground thawing, and with over twice the string of rods that he figured on, Mr. Johnson is doubtful about the foundations holding.

Attached hereto is the log from 900' to 924'.

W.H. White, Assoc. Mining Engineer.

Merritt Diamond-Drilling Progress Report - Feb. 12th - Feb. 16th (Noon)

Feb. 13th - Day shift - cored 801 - 811.

Right " - " 811 - 821.

Graveyard - * 8:1 - 831; 831 - 834.

Feb. 14th - Day shift - * 834 - 836; 836 - 840; 840 - 850

Night - - 850 - 856; 856 - 864.

Graveyard - " 864 - 869

Feb. 15th - Day shift - Thickening mud to stop caving above 864.

Rods down to 6" of bottom. Cored 869 - 878.

Night " - Cored 878 - 886.

Graveyard - " 886 - 890

Feb. 16th - Day shift - " 890 - 900.

Feb. 16th Handed over to W. L. Shite.

"Joseph T. Landy"

Mining angineer

Merritt, B.C.

Log of D.D.H. #6. Drilled August 1946.

Located approx. 680' N 42° 30' E (True) from Hole i^24 Elevation approx. 1985'

Core examined October 4, 1946.

Overburden		210' 6"	
•	Core	Missing	Depth
Shale, sandy	21 61	mroorne	213'
Shale and sandstone	ຂາ		215!
Sandstone, grey, fine grained few shaly	~		210
beds	41 611		219' 6"
Shale, sandy, grey	5' 6"		2251
Sandstone, light, fine grained Dip 15-20°	91		2341
Shale, grey, sandy	41		2381
Sandstone, light, fine grained, massive	5° 9"		243' 9"
Sandstone and shale, interbedded Dip 5-10°	51 3"		2491
Sandstone, massive, few shaly beds 254-255	7'	•	2561
grading to very coarse at base	•		200
Shale, grey sandy with sandy interbeds	43		2601
Shale, dark, few sandy beds	10'		270
Coal	6"		2701 61
Shale sandy	1 f 6 ff		2721
Sandstone, grey, massive, few shaly beds	31		275'
Sandstone, grading down to shale	5 †		2801
Sandstone, fine at top grading down to	•		200
coarse and massive at base	91		2891
Conglomerate	ĭ,		2901
Sandstone, light, massive, medium to	-		200
coarse with conglomerate beds	24'		314'
Shale, dark, some sandy beds, abundant	~ -		011
coal partings at 325'	12'		326 *
Shale, with many sandy interbeds	51		331'
Coaly partings	6"		331' 6"
Sandstone, grey thin bedded, fine grained	_		
Dips 5-100	21 6"		3341
Coal partings	ĩ'		3351
Shale, grey, sandy	2'		337 f
Shale, broken and slickensided, some coal	_		•••
partings	6 '		3431
Shale, dark with coal partings	8'		351'√
Shale grey and getting very sandy at base	5'	•	3561 \
Shale, grey	2'		3581
Shale, dark, with coal partings.	l' 3"		3591 31
Sandstone, light, medium grained, few coal			
streaks	71 911		367¹

•					3671	
Conglomerate, light, mostly fine grain, some						
medium fairly coarse at 370-71 375-76, 404-05	'68 '				435¹	
Sandstone, light medium grain, few coal partings	101	911			445°	9#
Sandstone, light, fine grain Shale, dark few coal partings	_	3# 6#			4471 4481	611
Coal and shale	1,	6"			450'	0
Shale, dark, broken Shale, grey with coal partings	2' 1'		ינ	6" 6"	452 ' 453 '	
Coal, 4" bone in 2 seams	21			0	4551	•
Shale with 4" coal Coal with 7" bone in 6 seams	1' 3'				456 ¹ 459 ¹	
Coal with 9" bone in 7 seams Dip 100	21	6 m			461'	611
Shale with abundant coal partings Shale, grev	31 41	6 "			465! 469!	

J.M. Black Asst. Mining Engineer.

Log of ten unmarked boxes of 2" diamond drill core found stored in drillers' cabin near Diamond Vale Colliery, Ferritt, B. C. on Ceptember 4th, 1966.

:aterial.	î ከተ <i>ረ</i> ዩ	<u>ness.</u>	Panth.	
in Gilen	it.	Ins.	řt.	Ins.
	1 0.	4134	210	6.
Gray shale	5	0.	215	6.
Course white sandstone		Ö.	219	6.
Curse value samosuche		9.	225	3.
Gray shale	••• 3	-	234	ŏ.
		9. 6.	235	5.
Dark ray shale	••• 2		327 327	C.
Interbodied shale in a sandstone		۴.	250 256	. 0.
Course white sandstone	• • • <u> </u>	o.	570	0.
Lark gray shale		Ç.	270	1.
Ccal		<u>ц</u> .	270	7.
Cray shale	••• 1	ଞ୍.	272	Ç.
Interbedded shale and sandstone		ō.	275	Ç.
Dark shale	••• 5	C.	20	C.
Park and light gray shale	1	Ç	281	0.
Course sandstone and fine conglonerat	e3+	○.	315	0.
iark gray shale	11	O•	326	c•
Interbedded light and dark gray shale	11	0.	337	_C
Tlack shale	3	0.	3,40	0.
lack shale intermixed with dirty coa	1 2	3•	342	3.
Mack shale with fine coal stracks	••• 6	9.	347	0.
Gray shale	1	C.	348	0.
Cark shale . The Color of the C		٥.	356	0.
Gray shale	â	C.	353	c_{ullet}
Dark shale	1	6.	35 9	6.
Course white sandstone	4	6.	404	C.
Fine to medium, white conflorerate	32	0.	436	C.
Course to medium grain sandstone	12	9.	મ 43	9.
Coal		á .	450	Ć.
Gray and black shale		Ę,	4-2	4.
Coal		10.	453	2.\
mone"		3.	453	5.)
Coal		č.	1:54	5.1
"Bone" and dirty coal		Ğ.	155	11 (COAL
Conl		5.	450	SEAM
Eone		2.	453	3.1
Coal		9	459	3. SEAM
			464	
Coaly shale	•••		. 469	
Dork shale	••• 7	0.	YOY	0.
Eigh in core box FIHIS				

Mc. 6 Hole J.F.