



EXPLORATION, INC.

222 S.W. HARRISON STREET · SUITE G-10 · PORTLAND, OREGON 97201 · (503) 243-1022 OR 1023

*file* *OS*

RECEIVED  
JUL 25 1975  
E & ME DIVISION

INTER-OFFICE MEMORANDUM

SUBJECT: Drilling Costs - Phase I- Temperature Gradient Drilling

DATE: July 22, 1975

TO: H. J. Olson

FROM: H. D. Pilkington

<u>Project</u>	<u>Drill Costs</u>	<u>Bits + Additives</u>	<u>Footage</u>	<u>Cost/Ft.</u>
La Grande (643)	\$ 9,329.05	\$ 462.70	2177.0	\$4.50
Beulah (662)	3,497.50	200.00	1336.0	2.76
<u>Burns</u> (663)	1,830.00	125.00	1155	1.69
Vale (665)	2,171.00	*	1330	1.63
North Vale (666)	5,342.86	*	3100	1.72
Mitchell Butte (685)	<u>1,162.50</u>	<u>*</u>	<u>265</u>	<u>4.38</u>
	\$24,120.61+		9,363	\$2.57

\* Bits + additives included with drill cost.

+ Includes drill time plus bits plus additives.

*H. D. Pilkington*

H. D. Pilkington



Date	DH	Mud	Serv	Drill T	Repairs	Delays	Bits	Additions	Depth	Cum Ft.	Total hrs	Cum. Hrs	Mud	Day
4/14	LG-9					(10.0)					0	114.7		19
15	LG-9				(2)	(8.0)					0			20
16	LG-9	1.0				(9.0)					1.0	115.7		21
17	LG-9					(10.0)					0			22
18	LG-9					(10.0)					0			23
21	LG-9					(10.0)					0			24
22	LG-9				(6.5)						0	115.7		25
	LG-10	1.0	0.5	3.5		(0.25)			168	1561	5.0	120.7		
	LG-11	0.3	0.2								0.5	121.2		
23	LG-11	0.7	0.5	3.5	(1.0)				168	1729	4.7	125.9		26
	LG-12	1.0	0.5	2.0		1.80			43	1772	5.3	131.2		
24	LG-12	0.5	1.0	3.0		(5.0)					4.5	135.7		27
25	LG-12	0.5	1.0	2.0					162	1934	3.5	139.2		28
	LG-13	2.0	0	6.0					168	2102	8.0	147.2		
26	LG-13	0.5				5.5					6.0	153.2		29
	LG-14	1.0	1.0	1.0		(1.0)					3.0	156.2		30
27	LG-14	0.0	0.0	2.0		(3.0)			75	2177	7.0	163.2		31
28	LG-14	1.0	1.0	6.8		(2.2)			=	-	8.8	172.0		32
29	LG-14	0.5	0.5							2177	1.0	173.0		33
		7.0								2177	7.0	180.0		
30	NV-1	0.5	0.5	6.0		1			165	2267	8.0	188.0	2	34
5/1	NV-1	0.5	0.5	8.0					115	2382	9.0	197.0		35
	NV-2	0.5	0.5	0	(2)						1.0	198.0		36
2	NV-2	0.5	0.5	2.0				0.5	165	2547	3.0	201.0		37
	NV-3	0.5	0.5	2.0		1.0			165	2712	4.0	205.0		
	NV-4	0.6	0.4								1.0	206.0		

Site	DH	Moob	Serv	Drill T	Repairs	Delays	Bits	Additions	Depth	Cum Ft.	Total hrs	Cum. Hrs	Mud	Day
5/6	NV-4					(10)				2712.0		206.0		37
7	NV-4					(10)								38
8	NV-4	0.5	0.5	1.5					165	2877.0	2.5	208.5		39
	NV-5	1.0	0.5	1.7	(2.0)	(1.3)		0.2	165	3042.0	4.5	213.0		
	NV-6	2.5	0.5		(0.8)						3.0	216.0		
9	NV-6	1.0	-	2.5	(0.25)	(0.5)		0.2	165	3207	4.0	220.0		40
	NV-7	1.0	0.5	2.0	(0.75)	0.50		0.1	165	3372	4.0	224.0		
	NV-8	2.5	0.5	1.8		0.5		0.5	165	4037	5.3	229.3		
10	NV-9	2.0	0.5	1.5	(0.5)	0.5			165	4202	4.5	233.8		41
	NV-10	1.5	0.5	3.5	(0.5)	(1.5)		1.0	145	4347	5.5	239.3		
11	NV-11	1.0			(9.0)						1.0	240.3		42
12	NV-11	1.0	0.5	5.75	(3.0)				140	4487	7.25	247.55		43
13	NV-12	1.5	0.5	2.0	(1.5)	0.50		0.1	165	4652	4.5	252.05		44
	NV-13	1.25	0.5	1.8	(1.0)	0.5		0.2	165	4817	4.05	256.1		
	NV-14	1.6	0.5	1.5		0.5		0.2	130	4947	4.1	260.2		
14	NV-15	3.0	0.5	1.75	(1.0)				165	5112	5.25	265.45		45
15	NV-16	1.5	0.5	2.0		0.5			165	5277	4.5	269.95		46
	V-1	0.3	0.5	4.0		5.5		0.3	145	5422	10.3	280.25		
16	V-2		0.5	5.5		(0.75)		0.4	125	5547	6.0	286.25		47
20						(10.0)					0.0			48
21	V-3	1.2	0.5	1.5	(1.0)	(1.25) 0.5		0.3	165	5712	3.7	289.0		49
	V-4	0.5	0.5	0.75		0.5		0.3	165	5877	2.3	291.3		
	V-5	1.0	0.5	2.0				0.4			3.5	294.8		
22	V-5	1.0	0.5	2.0	(1.3)	0.5		0.4	165	6042	4.0	298.8		50
	V-6	0.3	0.5	1.4		0.5		0.3	165	6207	2.7	301.5		
23	V-7	1.0	0.5	1.0	(0.5)	0.8		0.4	70	6277	3.3	304.8		51

Date	DH	Mob	Serv	Drill T	Repairs	Delays	Blts	Additions	Depth	Curr Ft	Curr Hrs	2nd Hrs	Mud	Day
11														67
10														66
9														65
8														64
7	B-8	2.5		3.5			0.5	165	8208	6.5	393.6			63
	B-8	2.0	0.5	1.0						3.5	287.1			
	B-7	1.0	0.5	1.5			6.5	165	8633	3.5	293.6			
6	B-6	1.2	0.5	1.5	(1.0)			165	7868	3.7	380.1			62
5	B-6	2.0	0.5	2.0	(1.0)			1007	7703	5.5	376.4			61
4										0.0				60
	B-6	1.8	0.5	2.0						4.3	370.9			
31		1.0	0.5	1.5			0.5	165	7602	3.5	366.6			59
	B-5	2.3		1.5						3.8	363.1			
	B-4	1.5	0.5	1.8			0.5	165	7437	4.3	359.3			
30		1.0		2.5			1.3	165	7322	4.8	355.0			58
29		2.0	0.5	1.0			5.0			4.0	350.2			57
	B-3	2.0								2.0	346.2			
	B-2	1.5	0.5	3.2	(2.0)		0.5	170	7207	5.7	344.2			
28	B-1	1.5	0.5	2.0	(1.3)		0.5	165	7037	4.5	338.5			56
27		5.0								5.0	334.0			55
26	V-11	1.5	0.5	6.5			0.5	160	6872	9.0	329.0			54
25					(1.0)									53
24	V-10	0.5	0.5	5.3			0.5	165	6772	6.8	320.0			52
	V-10	0.8								0.8	313.2			
	V-9	0.8	0.5	2.0	(2.5)		0.5	165	6607	3.8	312.4			
5/23	V-8	1.0	0.5	1.8	(1.3)		0.5	165	6442	3.8	308.6			

ite	DH	Mob	Serv	Drill T	Repairs	Delays	Bits	Additions	Depth	Cum Ft.	Total hrs	Cum. Hrs	Mud	Day
6/12		2.5												68
	Bn-2	1.3	0.5	3.0	(2.5)	0.5			165	8373	5.3	398.9		
	Bn-1	0.5	0.5	1.8		0.7			165	8538	3.5	402.4		
	Bn-3	0.5	0.5	1.0		0.5			165	8703	2.5	404.9		
13	Bn-5	1.8	0.5	2.0	(7.0)						4.0	408.9		69
14	Bn-5	0.5		1.0	(8.5)	2.5			165	8868	4.0	412.9		70
	Bn-4	0.5	0.5	2.0							3.0	415.9		
15	Bn-4			1.0		0.5			165	9033	1.5	417.4		71
	Bn-6	0.8	0.5	3.7	(0.5)	0.5			165	9198	5.5	422.9		
	Bn-7	0.5	0.5	3.5		0.5			165	9363	5.0	427.9		