

ESSO EXPLORATION INC.

FLUID PROPERTIES

Well 15/6-4

Date 1976	Depth FT.	Mud Wt.	Vis	W.L.	Hi-Temp F.L.	P.V.	YP	Gels 0/10	F.C.	PH	Alk PF/MF	Cl x 1000	Ca	Volume - %			C.E.C.	Remarks
														Oil	Sand	Solids		
28 JUNE	515	8.8					11	63										
29	552	8.9					14	76										
30	580	8.9					7	26	19/32	11.0								
01 JULY	580																	
02	1293																	CEMENT IN
03	1293																	CMTING; DRG
04	PIT	8.8		30			7	11	10/14	11.0	.25/3	3	100		4			W/ SEAWATE
05	1680	8.9		50			3	14	12/12	10.8	TR/.12	14	1400	TR	5			OPENING HOLE
06	3600	9.2		19			5	11	6/6	10.8	.08/1.6	20	1100	0.5	7			W/ SEAWATE
07	3600	9.2		19			5	11	6/6	10.8	.08/1.6	20	1100	0.5	7			LOG; RUN 13 3/8" CS
08	3600	9.6		16			10	20	9/9	11.4	.9/3	18	1560	0.4	8			DRLG. 12 1/4"
09	5260	9.4		9			8	18	10/18	11.6	.8/3	19	280	TR	8.5			
10	6798	9.4		8			8	16	14/26	11.1	.7/3	20	700	0.4	9			
11	7732	9.7		6.8			7	24	20/38	11.5	.9/2.5	20	700	0.3	11			
12	8212	9.6		11.6			6	18	5/21	10.8	.6/1.5	18	240	0.25	9			
13	8535	9.6		22			7	16	9/40	11.0	.6/2	21	280	0.4	9			
14	8666	9.5		24			8	22	15/31	10.6	.08/2.5	19	210	0.25	8.5	30		
15	8880	9.6		20			8	18	25/40	11.0	1.2/2.1	18	110	TR	8.5	27		
16	9050	9.6		22			7	18	24/37	11.1	1.1/1.9	17	70	TR	6.5	24		
17	9050	9.6		11			10	18	8/16	11.0	1.0/1.8	18	70	TR	8	25		LOG
18	9150	9.7		11	26		9	21	15/50	11.0	.65/1.6	17	60	TR	6.5	27		
19	9150	9.7		11.6	26		10	18	13/50	11.3	.8/1.9	17	60	TR	7	27		CIRC. & COND
20	9150	9.7		11.8	28		9	13	8/21	11.0	.6/1.43	17	70	0.25	6.5	24		RUN 9 5/8" CS
21	9150	OUT	OF	HOLE														SEAL ASSY PROBLEM

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														Oil	Sand	Solids		
22 July	9150	OUT	OF	HOLE													UNABLE TO T 9 5/8" SEAL AS	
23	9150	OUT	OF	HOLE													"	
24	9160	9.5		14.5		12	12	11/54	2	11.6	11/2	18	320		TR	7		
25	9330	9.6		14.6	27	10	11	8/31	2	11.3	8/16	17	100		TR	7	26	TURBODRILL
26	9674	9.9			28	12	11	7/47	3	11.1	7/18	17	80	0.5		9		"
27	10022	10.9			31	18	12	7/51	5	10.8	6/14	16.5	92	0.5		14		"
27	10042	11.5			29	20	14	12/56	5-8	10.9	6/5	14	420	0.5		12		"
28	10317	11.7			20	18	11	13/46	7	11.2	8/14	15	420		TR	12		"
29	10435	11.7			23	19	10	15/66	3	11.0	15/2	11	80		TR	18	25	
30	10506	12.1			22	16	12	16/72	3	11.2	15/2	11	40		TR	16	25	
31	10507	12.5			24	13	11	6/41	3	11.4	12/17	10	80		TR	23	25	
31	10585	12.8			20.2	16	16	10/42	3	11.2	18/2.2	10	40		TR	21	20	
01 Aug.	10585	12.8			21	11	11	4/30	3	11.3	18/2.3	10	TR		TR	21	20	CIRC. SAMPL START TO COR
02	10655	12.8			22	12	12	4/29	3	11.2	11/1.4	10	TR		TR	17		
03	10734	12.8		11	22	18	12	6/36	3	11.2	10/1.4	11	TR		TR	22	25	GARRET GAS TRAIN NEGATI
04	10812	12.8		12	26	25	37	17/43	3	11.3	7/8	11	TR	0.5		23	25	CORING
05	10896	12.8			27	24	26	12/37	3	11.4	9/4	10	60	0.5		21	23	
06	11200	12.8			26	25	34	10/36	3	11.0	7/5	9	40	0.25		21	30	
07	11500	12.5		11	22.5	21	27	9/38	3	11.6	14/2.0	8	60	0.25		18	18	REDUCE MUD HOLE NOT TAKING MUD, RAISE MUD V LOG.
08	11500		- LOGGING -															
09	11500	12.8		13.5	24.5	18	20	11/41	3	11.2	10/4	10	60	0.25		19		CLEAN OUT TR
10	11500	12.8		13.2		24	21	11/39	3	11.3	10/3	9	40-60	0.25		20		CLEAN OUT TR
11	11500	12.8			27	25	20	10/34	3	11.3	10/15	9	60	-		20		CONDITION FOR
12	11500	12.8		12	26	16	18	16/35	4	11.3	78/1.02	11	50	-		19		CONDITION FOR L

Well 15/6-4

MUD ADDITIONS

METRIC TONS

Mud Company: MDS/IDF

Date	Depth	BARITE	BENTONITE	LIGNO	CAUSTIC	CMC											\$ Cost	Remarks	
Jun 76	-																	0	
27																			
28																			
29																			
30																			
31 JUL																			
02																			
03																			
04																			
05																	0.125	7613	
06	3600		19														1.1 2.15	11.265	
07	3600		0.97															14.345	
08	3640	5.4		0.2	0.05													14.893	
09	5417		3.2	0.5	0.425													16.318	
10	6705																	16.318	
11	7830	20.7				1.05												18.426	
12	8262			0.125	0.1													20.332	
13	8537					2.35												23.436	
14	8666			0.05	0.45														
15	8880					0.3													
16	9050					1.0 0.1												28.353	
17	9050					1.75 0.3												20.508	
18	9150	5.0		0.75	0.5													31.419	
19	9150	2.85																31.730	
20	9150	7.8																32.580	
21	9150	10.1	30.5			0.5												40.203	OUT OF HOLE
	9150																	40.203	- " -
23	9150																	33.903 ?	- " -

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MUD ADDITIONS

METRIC TONS

Mud Company: MDS/IOF

Date	Depth	BARITE	BENTONITE	LIGNITE SULFATE	CAUSTIC	CMC	LIGNITE							\$ Cost	Remarks
24 JUL	9160	4.0	0.8											34.522	
25	9347	10.0												35.661	
26	9723	17.5	3.75		0.2									38.467	
27	10055	75.0			0.2	0.5								45.927	
28	10318	20.0		1.0		1.0								50.957	
29	10444			0.5	0.25									51.167	
30	10506	27.5	7.55	2.15	0.45									55.874	
31	10585	54.7		1.45			0.75							62.412	
1 AUG	10607				0.2		0.70							62.646	
02	10655	4.45			0.2									63.211	
03	10734	13.40		0.45	0.3									64.841	
04	10812													64.841	
05	10900	4.5		1.5	0.25									65.890	
06	11225			1.0	0.25		0.5							66.753	
07	11500 TD	4.5	1.62	0.5	.48									68.526	
08	11500 TD	31.3												71.938	
09	11500 TD	4.5		0.4										72.604	
10	11500 TD	4.5	.72		.05									73.440	
12	11500 TD	15.2		.55										75.482	
13	11500 TD	5.8													Inventory Adjustment
Totals		388	82	14	14	7	1							75.358	Per Mud Company Report.

LOGGING SUMMARY

15/6-4

Bit Size	Log	Interval ft	BHT deg F	FSIP psig
17 1/2	BHC-SONIC	1289 - ML	80	
17 1/2	ISF-SONIC	3332 - 1243	95	
-	CBL	13 3/8 casing	-	
12 1/4	IES	9030 - 3539	166	
12 1/4	BHC-SONIC	9030 - 3539	174	
-	CST-I	-	-	
-	CBL	9 5/5 casing	-	
8 1/2	ISF-SONIC	10 844 - 8692	190	
8 1/2	ISF-SONIC	11 496 - 10496	218	
8 1/2	FDC-CNL	11 516 - 9105	-	
8 1/2	MSFL-DLL	11 516 - 9105	232	
8 1/2	HDT	11 496 - 9105	221	
-	CST-2	-	-	
-	CST-3	-	-	
8 1/2	FIT-1	-	-	-
8 1/2	FIT-2	-	-	-
8 1/2	FIT-3	10 863	-	7116
8 1/2	FIT-4	10 570	-	6967
8 1/2	FIT-5	-	-	-
8 1/2	Velocity survey			

Stavanger 14 September 1976.

LØ/thd