

TABLES 9/12-1

CASING

Casing	30"	20"	13 3/8"	9 5/8"	Total depth
	m	m	m	m	m
depth	131	117	395	1211	2697

MUD PROGRAMME

Table 2

Mud properties						Remarks	Mud components
Depth below KB m	ft	Weight ppg	Weight g/cc	Funnel visc sec	Filt. loss cm ³		
395	1296	Sea water					Down to a depth of 395m (1296') the hole was drilled with sea water. From this depth to TD a Spersene/sea water mud system was used.
429	1406	12.1	1.45	48	4.0		
736	2415	12.2	1.46	46	4.8		
1207	3660	12.8	1.53	49	5.0		
						200 bbls mud lost due to balled up reamer between 1151m and 1166m	
1213	3979	12.4	1.48	42	5.0		
1273	4177	11.4	1.36	47	8.1		
1309	4295	11.4	1.36	46	5.0		
2108	6915	11.4	1.36	45	2.9		
2162	7094	11.4	1.36	45	2.8	Tight hole at 2162m. Reamed and washed between 1664m and 2162m.	
2162	7094	11.7	1.40		4.2	Mud weight raised to facilitate logging.	
2201	7220	11.4	1.36	55	3.0		
2697	8850	11.4	1.36	47	3.0		

MUD ADDITIVES

Table 2a

Function	Product ²
Bactericides	(Lime), (Caustic Soda)
Calcium Removers	Soda Ash, (Caustic Soda)
Corrosion Inhibitor	(Lime)
Defoamer	Magconol
Emulsifier	(Drilling Detergent)
Lubricants	Bit Lube, (Lime)
Filtrate Reducers	CMC, (Magcogel), (Spersene), (XP-20)
pH Control	Lime, Caustic Soda, (Soda Ash)
Shale Control Inhibitors	XP-20, (Lime)
Surface Active Agent	Drilling Detergent
Thinners, Dispersants	Spersene, XP-20
Viscosifiers	Salt Gel, Magcogel, (CMC)
Weighting Material	Barite

²Additives in parentheses signify a secondary function.

N O R S K E S H E L L

2.06

CHEMICAL CONSUMPTION WELL 9/12-1

From 28/3/69 to 6/5/69

CHEMICALS	UNIT	TOTAL CONSUMPTION	UNIT COST \$	TOTAL COST \$
Barytes	bulk MT	410	66.15	27,121
Salt Gel	sacks 80 lbs	855	4.67	3,993
Magcogel	sacks 100 lbs	1699	3.25	5,522
Lime	sacks 56 lbs	30	1.875	56
Spersene	sacks 50 lbs	1533	9.38	14,379
XP-20	sacks 50 lbs	524	9.64	5,051
CMC L.V.	sacks 56 lbs	228	12.28	2,800
Caustic Soda	drums 50 kg	238	9.94	2,366
Soda Ash	sacks 50 kg	57	5.08	289
Drilling Detergent	drums 55 gal	21	242.00	5,082
Magconol	drums 55 gal	5	325.26	1,626
Bit Lube	drums 55 gal	12	126.39	1,517
TOTAL MUD CHEMICALS				69,802
DEPTH OF WELL	8850'			
DAYS DRILLING	39			
MUD COST/FT	\$ 7.89			
MUD COST/DAY	\$ 1790			
MUD CHEMICALS CONSUMED	\$ 69,802			
CHEMICALS WASTED OR LOST	\$ 9282			
TOTAL CHEMICALS CONSUMED & LOST	\$ 79,084			



2.06

MUD DATA SHEET



MAG-380

OPERATOR AS Norske Shell	SURVEY SEC. T R	CASING SIZE 13 3/8	DEPTH 1069	BIT SIZE
WELL 9-12-1	FIELD	SURFACE 95/R	3973	
CONTRACTOR SEDNETH I	COUNTY	INTERMEDIATE		
ENGINEER MARTIN LEMARI S' RED SCIPIONE	STATE NORWAY	PRODUCTION		

DATE	DEPTH	WT.	VIS.	AV	PV	YP	GELS	PH	W/L	PF	CL PPM.	CA PPM.	SOL %	OIL %	H.T.H.P.	TOTAL MUD COST:	TOTAL DEPTH:
																REMARKS	
25/1-29	SPUD IN																
27/3-30	450																DRILLED / SEA WATER RAN 30" CONDUCTOR 454'
31	1336																RAN 10 1/2" BIT TO 450 - PLUGGERS PULLED
1-4-69	1336																DRLG / SEA WATER - FLUSHING / DIS MUD
2-4	1336																REWORKING 13 3/8 CAS
3-4	1336																RAN & TESTED 16 3/8 BOP
4-4	1336																STILL RUNNING & STACK
5-4	1673	12.1	48	25	18	13	3	10	10.5	4.0	.9	21000	320	18	-	-	TESTED STACK
6-4	3755	12.2	46	27	20	13	4	12	9.5	4.8	.4	20000	480	19	-	-	DRLG & P.O.H
7-4	3960	12.8	46	28	24	8	3	11	9.1	5.0	.2	20000	360	20	-	-	LOGGED & DRLG
8-4	3997	12.5	49	26	20	10	3	11	9.1	5.0	.2	20000	360	20	-	-	LITTLE LOST CIRC. 20000L HANDED OFF LOGGED
9	3997																3000 LOG - RAN 9 5/8 47" NO FB CIRC
10	3997																CEN CSA - CHANGE DRLG ASSEMBLY
11	4007	12.3	42						9.2	5.0							TESTED CEN JUB & DRL SHOW D
12	4229	11.4	47	27	19	14	2	9	11.0	8.1	1.9	20000	180	14			RAN BITS 7.8.9 REWORKING & DATA
13	4359	11.4	46	25	21	10			11.2	5.0	2.8	20000	200	12			DRLG & W.C.W

DATE SPUD:	DATE T.D.:	B.H.T.	COMPLETION FLUID TYPE:	COST:
			PACKER MUD TYPE:	COST:

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MUD DATA SHEET



Page 1

MAG-380

OPERATOR		SURVEY SEC.		CASING SIZE		DEPTH		BIT SIZE									
A/S Norske Shell		T R		13 3/4		1269		8 1/2									
WELL		FIELD		SURFACE		INTERMEDIATE		PRODUCTION									
9-12-1				9 5/8		3973											
CONTRACTOR		COUNTY		STATE		TOTAL MUD COST:		TOTAL DEPTH:									
SEONETH I				NORTH CAROLINA													
ENGINEER		STATE		PRODUCTION		REMARKS											
MARTY LEONARD RED Scipione		NORTH CAROLINA															
DATE	DEPTH	WT.	VIS.	AV	PV	YP	GELS	PH	W/L	PF	CL PPM.	CA PPM.	SOL %	OIL %	H.T.H.P.		
4-14	4650	11.3	45	20	14	12	1	7	11.0	4.8	2.2	22000	210	12	1	-	DRLG AHEAD VERY HARD - HERT
15	4860	11.3	50	23	16	14	2	8	11.0	4.5	2.8	23000	80	13	1	-	" " " "
16	4950	11.3	58	20	12	16	2	7	10.5	4.6	2.5	22000	180	13	1	-	DRLG GETTING SOFTER - Clay type cement
17	5601	11.3	46	21	13	16	1	6	11.0	4.0	2.5	23000	80	13	1	-	DRLG GETTING SOFTER - Clay type cement
18	5740	11.3	58	28	19	18	2	7	10.5	3.6	1.3	23000	160	15	1	-	DRLG GETTING SOFTER - Clay type cement
19	6213	11.4	51	22	14	16	2	6	10.0	3.9	1.0	22000	80	16	1	-	DRLG GETTING SOFTER - Clay type cement
20	6790	11.4	51	26	14	24	2	8	11.0	2.6	3.3	22000	NIL	16	1	-	DRLG TRIP to 10% SAND FORMATION
21	6960	11.3	45	27	18	18	1	8	10.0	2.9	1.0	24000	80	16	1	-	DRLG - P.L.C.M. Running logs
22	7094	11.4	45	25	18	14	1	8	10.5	2.8	1.5	23000	80	15	1	-	Finished Running logs - off location
23	7094	11.4	45	25	18	14	1	8	10.5	2.8	1.5	23000	80	15	1	-	W.C.W.
24	7094	11.4	45	25	18	14	1	8	10.5	2.8	1.5	23000	80	15	1	-	W.C.W.
25	7094	11.7	117	65	52	27	15	58	10.5	4.2	4.0	21,000	240	14	1	-	Running back to bottom
26	7325	11.4	55	28	20	15	2	12	10.0	3.0	1.3	20,000	80	15	1	-	DRLG - Trip - DRLG
27	7499	11.4	48	27	20	15	1	9	10.5	2.2	1.0	20,000	80	14	1	-	" " " "
28	8040	11.4	49	23	17	11	2	9	9.5	3.2	.8	21,000	60	15	1	-	DRLG - TRIP for b.t # 28
29	8304	11.4	49	25	17	12	3	9	10.0	3.0	.9	20000	80	16	1	-	" " " #29
30	8634	11.4	51	24	15	18	2	8	10.0	3.0	1.3	23000	80	16	1	-	" " " "
MAY/1	8850	11.4	48	23	15	16	2	8	10.0	2.8	1.0	20000	80	15	1	-	LOGGED & PREPARED to plug
2	8850																LOGGING
3	8850																"
4	8850																LOGGED & plugged back
5	8850																CUTTER 9 5/8" CSA
6	8850																pulled stack, abandoned at 24" hrs

DATE SPUD:

DATE T.O.:

B.H.T.:

COMPLETION FLUID TYPE:

COST:

28-3-69

PACKER MUD TYPE:

COST:

2.06