



# TOTAL MUD MATERIALS USED FOR WELL

DRILLING FLUIDS

COMPANY CONOCO DEMINEX WELL NO. 8/8-1 PAGE 1 of 1

Quantity	Material	Unit/Weight	Unit Cost	Total Cost	%
435	Bulk Barite	MT	112.96	49137.60	.36
94	Barite sx	50 kg	4.85	455.90	
128	Gel bulk	MT	176.40	22579.20	.17
121	Gel sx	50 kg	10.80	1306.80	.001
348	Salt Gel	100 lb	14.13	4917.24	.04
868	Unical	50 lb	14.37	12473.16	.09
354	Caustic	25 kg	14.83	5249.82	.04
36	Drispac	50 lb	131.06	4718.16	.03
432	Gypsum	100 lb	5.76	2488.32	.02
30	Bicarb of soda	50 kg	13.22	396.60	
40	Diaseal M	50 lb	22.07	882.80	.001
5	Nut Plug	50 lb	13.93	69.65	
8	LD-7	5 gal	96.10	768.80	.001
1	MD	55 gal	385.00	385.00	
50	Soltex	50 lb	45.31	2665.50	.02
23	Calcium Chloride	50 kg	8.36	192.28	
241	CMC L.V.	50 lb	53.94	12999.54	.09
55	Flosal	50 lb	16.44	904.20	
6	Lime	25 kg	3.85	23.10	
25	Mica	25 kg	12.99	324.75	
56 days eng. service= 12880.00			TOTAL COST FOR WELL	\$ 122 938.12	
DEPTH AT T.D. 7795 FT.		AVERAGE COST per FOOT for WELL		\$ 15.77	
49 days from spud			AVERAGE COST per DAY	\$ 2508.93	



DRILLING FLUIDS

# CASING INTERVAL

COMPANY CONOCO DEMINEX Well No. 8/9-1 Page 1 of 4

Casing Size 30 " from 536 to 544 (Bit Size) 30 " hole from RKB to 544

Material Consumption for Interval:

Product	Units	Size	Cost/Unit	Total Cost
Barite sx	50	50 kg	4.85	242.50
Bulk Barite	8	MT	112.96	903.68
Bulk Gel	8	MT	176.40	1411.20
Salt Gel	162	100 lb	14.13	2289.06
Caustic	20	25 kg	14.83	296.60
Flosal	55	50 lb	16.44	904.20
Calcium Chloride	23	50 kg	8.36	192.28
Engineering Service 12 days				2760.00

Material Cost for Interval \$ 8999.52 Average Cost per Foot \$ 16.54

Number of Days 3 Average Cost per Day \$ 2999.84

Comments:

Waiting on weather. Spudded at 20.00 hours on 22nd December, 1975. Finished drilling 36" hole on 23rd December, 1975. 5 days of Engineering fee was while rig was moved to new location. The number of actual drilling days was 3.



DRILLING FLUIDS

# CASING INTERVAL

COMPANY CONOCO DEMINEX Well No. 8/9-1 Page 2 of 4

Casing Size 20 " from \_\_\_\_\_ ' to 1311 ' (Bit Size) 26 " hole from 544 ' to 1348 '

Material Consumption for Interval:

Product	Units	Size	Cost/Unit	Total Cost
Bulk Gel	37	MT	176.40	6526.80
Salt Gel	86	100	14.13	1215.18
Caustic	18	25 kg	14.83	266.94
Drispac	11	50 lb	131.06	1441.66
Barite sx	9	50 kg	4.85	43.65
Bicarb	2	50 kg	13.22	26.44
Engineering service	12 days			2760.00

Material Cost for Interval \$ 12280.67 Average Cost per Foot \$ 15.27

Number of Days 12 Average Cost per Day \$ 1023.39

Comments:

Waiting on weather. Rat holed with 17½" bit. Stuck pipe at or around 735' - pipe came free. Lost approx. 400 barrels due to seepage (partial returns). R.I.H. with under-reamer and opened hole to 26". Ran 20" casing on 5th January, 1976 and cemented same.



DRILLING FLUIDS

# CASING INTERVAL

COMPANY CONOCO DEMINEX Well No. 8/9-1 Page 3 of 4

Casing Size 13-3/8 " from \_\_\_\_\_ ' to 3252 ' (Bit Size) 17 1/2 " hole from 1348 ' to 3296 '

Material Consumption for Interval:

Product	Units	Size	Cost/Unit	Total Cost
Bulk Barite	203	MT	112.96	22930.88
Barite sx	35	50 kg	4.85	169.75
Bulk Gel	76	MT	176.40	13406.40
Gel sx	111	50 kg	10.80	1198.80
Salt Gel	100	100 lb	14.13	1413.00
Unical	259	50 lb	14.37	3721.83
Caustic	138	25 kg	14.83	2046.54
Drispac	25	50 lb	131.06	3276.50
Gypsum	239	100 lb	5.76	1376.64
Bicarb of soda	11	50 kg	13.22	145.42
Lime	6	25 kg	3.85	23.10
Diaseal M	40	50 lb	22.07	882.80
Plug	5	50 lb	13.93	69.65
LD-7	1	5 gal	96.10	96.10
Mica	25	25 kg	12.99	324.75
Engineering service 8 days				1840.00

Material Cost for Interval \$ 52922.16 Average Cost per Foot \$ 27.16

Number of Days 8 Average Cost per Day \$ 6615.27

Comments: 6th January, 1976: Premixed 1000 bbls of Gyp mud while waiting on weather. 7th Jan.: Waiting on weather. 8th Jan.: Drilling out from under 20" Attempted to run leak off test. Pumped L.C.M. pill down and attempted to squeeze. Failed to give leak off. Drilling ahead. Lost mud at ball joint approx. 35 bbls/hr. Pulled riser- repaired same with seal. Ran riser. Ball joint still leaking. Weighted mud to 9.6 ppg. Drilling into sticky gumbo at 2000'. Mud rings occurred due to high penetration rate. 12th Jan.: T.D. for 17 1/2" hole. Circulated bottoms up. Plugged flow line. Mixed 300 bbls of 10.0 ppg slug to wipe hole. P.O.H. Attempted to log - stuck logs at 20" shoe. P.O.H. R.I.H. and circulated to log again. Received orders to weight up to 10.5 ppg - mixed mud. Logged - ran 13-3/8" casing with no problems and cemented same. Lost all circ. at ball joint. Displaced hole with Sea Water. Built all new system. Loss of mud came to approx. 2000 - 2500 bbls. New volume included in 12-1/4 interval.



DRILLING FLUIDS

# CASING INTERVAL

COMPANY CONOCO DEMINEX Well No. 8/9-1 Page 4 of 4

Casing Size \_\_\_\_\_ Footage \_\_\_\_\_ (Bit Size) 12-1/4 Footage \_\_\_\_\_  
" from \_\_\_\_\_ to \_\_\_\_\_ " hole from 3296 to 7795

Material Consumption for Interval:

Product	Units	Size	Cost/Unit	Total Cost
Barite bulk	224	MT	112.96	25303.04
Gel bulk	7	MT	176.40	1234.80
Gel sx	10	50 kg	10.80	108.00
Unical	609	50 lb	14.37	8751.33
Caustic	178	25 kg	14.83	2639.74
CMC LV	241	50 lb	53.94	12999.54
Gypsum	193	100 lb	5.76	1111.68
Bicarb of soda	17	50 kg	13.22	224.74
LD-7	7	5 gal	96.10	672.70
MD	1	55 gal	385.00	385.00
Soltex	50	50 lb	45.31	2265.50

Engineering service 24 days 5520.00

Material Cost for Interval \$ 61216.07 Average Cost per Foot \$ 13.60

Number of Days 24 Average Cost per Day \$ 2550.67

Comments:

Build new volume 800 bbl 11.5 ppg mud. Pumped 170 bbl to formation while dig gumbo. waiting on weather 4 days. Set cement plug at 3100 to 3028 to pull stack to repair hydraulic hoses. Drilled into salt chloride increase from 18500 ppm to 70000 ppm. Ream back to 7400' to log.

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**REGISTRERT**  
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<u>REPORT :</u> <u>SCREENING ANALYSIS- well NOCS 8/9-1</u>	
<u>CLIENT(S) :</u> NORSKE SHELL A/S	
<u>RESPONSIBLE SCIENTIST :</u> J. McDERMOTT	
<u>AUTHORS :</u>	
<u>DATE :</u> 2/6/87	<u>GEOLAB PROJECT :</u> 7232
	<u>CLIENTS REF :</u> S 13644 (EPXT)

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Polished Blocks

- 1) 7550 m
- 2) 7600 m
- 3) 7700 m
- 4) 7790 m

Table 1 : Lithology description for well NOCS 8/9-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
7550.00						001
				45 S/Sst : gy pi, y gy, calc, cem, l		001-1
				30 Sh/Clst: brn gy, gy blk, brn blk, ol gy, m gy, calc, carb, mic, wx		001-2
				15 Other : w, evap		001-3
				5 Other : pyr		001-4
				5 Cont : prp		001-5
				tr Coal : blk		001-6
7600.00						002
				50 Sh/Clst: brn blk, ol gy, lt brn gy, drk gy, calc, carb, mic, wx		002-2
				35 S/Sst : gy pi, y gy, calc, cem, l		002-1
				15 Other : w, evap		002-3
				tr Other : pyr		002-4
				tr Cont : prp, dd		002-5
				tr Ca : brn blk, dol		002-6
7700.00						003
				50 Sh/Clst: brn blk, ol gy, lt brn gy, m gy to drk gy, calc, carb, mic, wx		003-2
				15 S/Sst : gy pi, y gy, calc, cem, l		003-1
				15 Ca : w, chk		003-6
				10 Other : w, evap		003-3
				5 Other : pyr		003-4
				5 Ca : brn blk, dol		003-7
				tr Cont : prp, dd, ns		003-5
				tr Coal : blk		003-8
7790.00						004
				40 Sh/Clst: brn blk, ol gy, lt brn gy, m gy to drk gy, calc, carb, mic, wx		004-2
				25 S/Sst : l		004-1
				20 Other : pyr		004-4
				5 Cont : prp, dd		004-5
				5 Ca : w, chk		004-6
				5 Ca : brn blk, dol		004-7
				tr Other : w, evap		004-3
				tr Other : fos		004-8



Table 2 : Rock-Eval table for well NOCS 8/9-1

Depth unit of measure: m

Depth	Typ	Lithology	S1	S2	S3	S2/S3	TOC	HI	OI	PP	PI	Tmax	Sample
7550.00	cut	Sh/Clst: brn gy, gy blk, brn blk, ol gy, m gy	0.27	5.41	0.50	10.82	2.58	210	19	5.7	0.05	434	001-2
7600.00	cut	Sh/Clst: brn blk, ol gy, lt brn gy, drk gy	0.39	6.87	0.59	11.64	2.80	245	21	7.3	0.05	435	002-2
7700.00	cut	Sh/Clst: brn blk, ol gy, lt brn gy, m gy to drk gy	0.60	10.81	1.04	10.39	3.97	272	26	11.4	0.05	434	003-2
7790.00	cut	Sh/Clst: brn blk, ol gy, lt brn gy, m gy to drk gy	0.95	9.97	0.97	10.28	3.38	295	29	10.9	0.09	431	004-2