

Mud

<u>Hole Size (in)</u>	<u>Interval (mMD BRT)</u>	<u>Mud Type</u>	<u>Mud Weight (SG)</u>
9 7/8	91 - 1050	Seawater w/ hi-vis sweeps	1.03
36 (HO)	91 - 165	Seawater w/ hi-vis sweeps	1.03
17 ½	165 - 1050	Seawater w/ hi-vis sweeps	1.03
12 ¼	1050 - 3185	BARASILC WBM	1.3 - 1.7
8 ½	3185 - 4516	ENVIROMUL OBM	1.54

Company: BP NORGE UA
 Well Name: 1/3-9S T2
 Contractor: Maersk Contractors Norge
 Rig: MAERSK JUTLANDER

Country: NORWAY
 Geo Area: NORTH SEA
 Field: JU8
 Region: Offshore



Interval Material Consumption

Interval #01 9 5/8"/36"/17.5" in. Hole Sec

Top of Interval 91 meters
 Bottom of Interval 1,050 meters

Material	Unit size	Quantity	Total cost (Kr)
barite	1000 KG. TON	233.000	147,256.00
bentonite	1000 KG. TON	99.000	187,110.00
lime	1 KG.	175.000	315.00
mica coarse	25 KG. BAG	2	152.00
mica fine	25 KG. BAG	1	76.00
N-VIS HI	20 KG. BAG	4	10,036.00
soda ash	1 KG.	675	1,701.00
soda ash	25 KG. BAG	38	2,394.00
Miscellaneous Items			
Engineering			89,900.00

Interval mud cost Kr 349,040.00

Interval miscellaneous cost Kr 89,900.00

Total interval cost Kr 438,940.00

Programmed mud cost Kr 291,834.00

Variance Kr 57,206.00

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 Field: JUS
 Region: Offshore



Interval Material Consumption

Interval #02 12.25 in. Hole Section

Top of Interval 1,050 meters
 Bottom of Interval 3,100 meters

Material	Unit size	Quantity	Total cost (Kr)
BARACOR 95	55 GAL. DRUM	20	65,420.00
BARASCAV D	25 KG. BAG	63	10,143.00
BARASIL-S	1000 L.	13.000	56,472.00
BARAZAN-D PLUS	25 KG. BAG	120	183,360.00
barite	1000 KG. TON	997.000	630,104.00
brine	42 GAL. BBL	887	149,787.69
FILTER-CHEK	25 KG. BAG	650	283,016.50
kcl	1000 KG. BAG	46	69,000.00
Liquid Mud (Water-based)	42 GAL. BBL	4,085.000	1,754,340.16
PAC-L	25 KG. BAG	301	185,717.00
WALL-NUT COARSE	25 KG. BAG	20	1,340.00
Miscellaneous Items			
Engineering			151,900.00

Interval mud cost Kr 3,388,700.35

Interval miscellaneous cost Kr 151,900.00

Total interval cost Kr 3,540,600.35

Programmed mud cost Kr 2,567,383.00

Variance Kr 821,317.35

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 Region: Offshore



Interval Material Consumption

Interval #03 12.25 in. Hole Section

Top of Interval 1,756 meters
 Bottom of Interval 3,185 meters

Material	Unit size	Quantity	Total cost (Kr)
BARACOR 95	55 GAL. DRUM	19	62,149.00
BARASCAV D	25 KG. BAG	31	4,991.00
BARASIL-S	1000 L.	10.000	43,440.00
BARAZAN-D PLUS	25 KG. BAG	25	38,200.00
barite	1000 KG. TON	868.000	548,576.00
Dcp 208	55 GAL. DRUM	11	27,588.00
FILTER-CHEK	25 KG. BAG	380	165,455.80
kcl	1000 KG. BAG	88	132,000.00
Liquid Mud (Water-based)	42 GAL. BBL	3,412.000	1,332,070.12
PAC-L	25 KG. BAG	309	190,653.00
Miscellaneous Items			
Engineering			178,600.00

Interval mud cost Kr 2,545,122.92

Interval miscellaneous cost Kr 178,600.00

Total interval cost Kr 2,723,722.92

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 Region: Offshore



Interval Material Consumption

Interval #04 8.5 in. Hole Section

Top of Interval 3,185 meters
 Bottom of Interval 4,515 meters

Material	Unit size	Quantity	Total cost (Kr)
BARACARB 50	25 KG. BAG	200	22,600.00
BARASCAV D	25 KG. BAG	5	805.00
BARAZAN-D PLUS	25 KG. BAG	18	27,504.00
barite	1000 KG. TON	236.000	149,152.00
base oil	42 GAL. BBL	483	185,955.00
calcium chloride	25 KG. BAG	130	8,580.00
CMO 568	250 KG. DRUM	3	27,570.00
CONDET	55 GAL. DRUM	3	4,953.00
DURATONE HT	50 LB. BAG	175	44,625.00
ENVIROMUL (Credit)	42 GAL. BBL	1,190	-265,727.00
ENVIROMUL 61.5%	42 GAL. BBL	425.000	-100,627.25
ENVIROMUL MUD	42 GAL. BBL	2,117.000	621,995.77
EZ MUL NT	55 GAL. DRUM	19	50,084.00
GELTONE II	50 LB. BAG	40	10,120.00
lime	1 KG.	2,575.000	4,635.00
lime	25 KG. BAG	50	2,250.00
RM-63	55 GAL. DRUM	4	13,104.00
Tetraclean 105	1000 L. DRUM	2	102,000.00
Tetraclean 106	1000 L. DRUM	3	102,000.00
Miscellaneous Items			
Engineering			251,800.00

Interval mud cost Kr 1,011,578.52

Interval miscellaneous cost Kr 251,800.00

Total interval cost Kr 1,263,378.52

Programmed mud cost Kr 1,283,273.00

Variance Kr -271,694.48

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Interval Material Consumption

Interval #05 in. Hole Section

Top of Interval 4,515 meters
Bottom of Interval 4,515 meters

Material	Unit size	Quantity	Total cost (Kr)
BARASCAV D	25 KG. BAG	4	644.00
CONDET	55 GAL. DRUM	5	8,255.00
Miscellaneous Items			
Engineering			4,100.00

Interval mud cost Kr 8,899.00
Interval miscellaneous cost Kr 4,100.00
Total interval cost Kr 12,999.00

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 Region: Offshore



Mud Property Recap: Water-Based Mud

DATE	DEPTH meters	FL TEMP Deg F	DENSITY Sp. Gr.	FUN VIS sec/qt	RHEOLOGY @ 120°F				pH	FILTRATION				FILTRATE ANALYSIS					SAND % by vol	RETORT ANALYSIS					MBT me/ml mud	RHEOMETER DIAL READINGS		
					PV cP	YP lbs/100 ft2	GELS			API ml/30 ml	HTHP ml/30 min	Cake 32nd in	Temp Deg F	Pm ml	Pf ml	Mf ml	Cl mg/L	Total Hardness mg/L		Corr Solids % by vol	LGS % by vol	Oil % by vol	Water % by vol	600/300		200/100	6/3	
08-05-98	117		1.070	100	1.0	/		9.00			2/0	250														/	/	/
09-05-98	501		1.070	100	1.0	/		9.00																		/	/	/
10-05-98	1050		1.070	100	1.0	/		9.00			2/0														/	/	/	
11-05-98	1050		1.070	100	1.0	/		9.00																	/	/	/	
12-05-98	1050		1.070	100	1.0	/		9.00																	/	/	/	
13-05-98	1050		1.070	100	1.0	/		9.00																	/	/	/	
14-05-98	1050		1.250	100	1.0	/		9.00																	/	/	/	
15-05-98	1050		1.250	100	1.0	/		9.00																	/	/	/	
16-05-98	1050		1.250	100	1.0	/		9.00																	/	/	/	
17-05-98	1050		1.250	100	1.0	/		9.00																	/	/	/	
18-05-98	1050		1.250	100	5.0	/					1/0	194													/	/	/	
19-05-98	1101	68	1.300	48	11.0	11.0	4.0/ 5.0	12.30	2.8	11.80	2/1	185		39.00	44.00	50,000			8.25	0.75		89.00		30 / 20	15 / 11	5 / 4		
20-05-98	1653	90	1.300	75	16.0	16.0	6.0/ 7.0	12.50	2.8	11.80	1/1	185		38.00	41.00	60,000		tr	8.72	2.29		88.00	2.80	47 / 31	24 / 18	7 / 6		
21-05-98	2104	98	1.320	65	23.0	22.0	8.0/ 9.0	12.20	1.8	11.80	1/1	185		38.80	45.00	55,000		tr	9.00	1.27		88.00	3.40	68 / 45	36 / 25	9 / 8		
22-05-98	2302		1.350	75	29.0	28.0	9.0/ 10.0	11.90	1.2	10.60	1/1	185		41.30	45.00	49,000		tr	11.40	3.73		86.00	3.60	84 / 55	43 / 29	10 / 9		
23-05-98	2535	102	1.440	125	37.0	38.0	9.0/ 10.0	12.00	2.0	10.80	1/1	185		34.00	38.00	50,000		tr	13.41	2.11		84.00	3.00	110 / 73	57 / 39	10 / 9		
24-05-98	2592	90	1.680	120	42.0	38.0	12.0/ 15.0	12.50	2.1	9.00	1/1	185		43.00	48.00	50,000		tr	21.65	3.30		76.00	2.40	120 / 78	59 / 42	13 / 10		
25-05-98	2932	120	1.680	105	45.0	35.0	14.0/ 19.0	13.00	2.8	9.50	1/1	185		43.00	45.00	70,000		tr	22.75	6.54		74.00	3.00	125 / 80	83 / 43	15 / 13		
26-05-98	3099	120	1.680	75	37.0	55.0	39.0/ 70.0	12.50	3.2	9.70	1/1	185		36.00	40.00	70,000		tr	22.75	6.51		74.00	3.20	129 / 92	77 / 58	36 / 31		
27-05-98	3100		1.680	83	36.0	33.0	19.0/ 33.0	13.20	4.0	10.50	1/1	185		36.00	42.00	60,000		tr	23.24	6.96		74.00	2.80	105 / 69	55 / 40	19 / 18		
28-05-98	3100		1.680	90	31.0	34.0	24.0/ 40.0	13.20	2.9	10.50	1/1	185		39.00	44.00	60,000		tr	22.20	4.93		75.00	2.40	96 / 65	54 / 40	22 / 21		
29-05-98	3100		1.700	77	35.0	45.0	41.0/ 61.0	13.00	3.0	10.00	1/1	185		31.00	36.00	75,000		tr	21.46	3.01		75.00	2.80	115 / 80	67 / 52	35 / 35		
30-05-98	3100	86	1.700	76	34.0	47.0	43.0/ 60.0	12.00	3.2	10.30	1/1	185		33.00	35.00	65,000		tr	21.96	3.44		75.00	4.20	115 / 81	67 / 53	35 / 34		

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 Region: Offshore



Mud Property Recap: Water-Based Mud

DATE	DEPTH meters	FL TEMP Deg F	DENSITY Sp. Gr.	FUN VIS sec/qt	RHEOLOGY @ 120°F				pH	FILTRATION				FILTRATE ANALYSIS					SAND % by vol	RETORT ANALYSIS				MBT me/ml mud	RHEOMETER DIAL READINGS		
					PV cP	YP lbs/100 ft2	GELS	Temp Deg F		API ml/30 mi	HTHP ml/30 min	Cake 32nd in	Temp Deg F	Pm ml	Pf ml	Mf ml	Cl mg/L	Total Hardness mg/L		Corr Solids % by vol	LGS % by vol	Oil % by vol	Water % by vol		600/300	200/100	6/3
01-06-98	3100		1.700	77	34.0	33.0	20.0/	37.0	12.00	2.6	9.80	1/1	185		36.25	42.50	56,000		tr	22.39	3.83		75.00	3.20	101 / 67	54 / 39	19 / 18
02-06-98	3100	113	1.700	93	35.0	47.0	36.0/	55.0	12.00	3.2	10.30	1/2	250		30.00	33.00	64,000		tr	23.04	5.52		74.00	3.70	117 / 82	70 / 55	38 / 36
03-06-98	3100	104	1.700	88	25.0	42.0	37.0/	55.0	11.80	3.0	10.00	1/2	250		20.00	26.25	57,000		tr	22.86	4.80		74.50	3.50	92 / 67	56 / 45	34 / 34
04-06-98	3100	78	1.700	72	28.0	34.0	22.0/	48.0	11.70	3.2		2/0	250		20.00	22.50	62,000		tr	22.82	4.59		74.50	3.80	90 / 62	53 / 43	34 / 33
06-06-98	1756	76	1.700	81	27.0	27.0	12.0/	25.0	12.10	2.7	9.20	1/1	250		35.00	38.00	58,000		Tr.	21.78	2.73		75.50	2.10	81 / 54	45 / 34	16 / 13
06-06-98	1756	50	1.700	89	27.0	24.0	13.0/	24.0	12.00	2.8	9.60	1/1	250		31.25	35.00	67,000		Tr.	21.34	2.34		75.50	2.60	78 / 61	40 / 30	15 / 13
07-06-98	1910	55	1.700	62	25.0	23.0	14.0/	28.0	12.00	3.8	11.00	1/1	250		32.50	35.00	74,000		Tr.	20.99	2.03		75.50	3.50	73 / 48	39 / 29	16 / 15
08-06-98	2169	122	1.700	69	26.0	26.0	18.0/	30.0	12.00	3.2	11.00	1/1	250		32.50	37.50	95,000		Tr.	20.45	2.12		75.00	4.00	78 / 52	42 / 30	20 / 19
09-06-98	2294		1.700	75	26.0	26.0	21.0/	35.0	11.90	3.5	11.00	1/1	250		31.25	35.00	95,000		tr	20.45	2.12		75.00	4.00	78 / 52	42 / 30	22 / 20
10-06-98	2303	122	1.700	65	26.0	26.0	21.0/	35.0	11.90	4.0	10.50	1/1	250		25.00	30.00	72,000		tr	22.66	5.18		74.00	4.50	78 / 52	42 / 30	22 / 20
11-06-98	2446		1.700	64	25.0	30.0	25.0/	38.0	12.00	4.5	11.10	1/1	250		30.00	33.00	76,000		tr	21.41	2.97		75.00	4.00	80 / 55	45 / 34	22 / 17
12-06-98	2446	86	1.700	64	20.0	24.0	14.0/	32.0	12.00	3.5	10.10	1/1	250		28.75	32.50	92,000		tr	21.13	3.28		74.50	4.00	64 / 44	35 / 26	19 / 19
13-06-98	2507	127	1.700	75	24.0	28.0	14.0/	33.0	11.80	4.5	12.00	1/1	250		27.50	31.25	92,000		tr	21.13	3.28		74.50	4.00	76 / 52	40 / 29	17 / 14
14-06-98	2689	129	1.700	53	20.0	24.0	16.0/	32.0	11.80	4.6	12.90	2/2	250		31.00	35.00	91,000		tr	20.65	2.30		75.00	3.50	64 / 44	35 / 22	12 / 11
15-06-98	2812	118	1.700	72	37.0	31.0	19.0/	40.0	11.90	3.4		2/0	250		34.00	39.00	85,000		tr	20.98	2.57		75.00	2.50	105 / 68	54 / 40	17 / 15
16-06-98	2935	121	1.700	70	39.0	24.0	10.0/	22.0	11.80	3.4	10.10	2/2	250		25.00	32.50	62,000		TR	22.10	3.57		75.00	3.00	102 / 63	50 / 34	14 / 12
17-06-98	2935		1.700	100	26.0	25.0	16.0/	33.0	11.80	3.4	10.30	2/2	250		25.00	32.50	64,000		tr	22.00	3.49		75.00	3.00	77 / 51	41 / 28	13 / 12
18-06-98	2981	129	1.700	69	34.0	22.0	12.0/	28.0	11.80	3.7	10.80	2/2	250		25.00	32.50	91,000		tr	20.65	2.30		75.00	3.50	90 / 56	43 / 30	10 / 9
19-06-98	3002		1.700	100	32.0	22.0	21.0/	36.0	11.70	4.1	12.00	2/2	250		23.00	30.00	88,000		tr	20.81	2.43		75.00	4.00	86 / 54	43 / 32	15 / 14
20-06-98	3087	133	1.700	56	30.0	20.0	13.0/	28.0	12.30	3.4	10.40	2/2	250		25.00	32.50	82,000		tr	20.58	1.68		75.50	3.50	80 / 50	40 / 29	11 / 10
21-06-98	3123	136	1.700	56	26.0	21.0	18.0/	37.0	12.20	4.0	11.20	2/2	250		24.00	30.00	94,000		tr	20.50	2.16		75.00	3.50	73 / 47	37 / 28	15 / 14
22-06-98	3148	140	1.700	53	29.0	21.0	11.0/	21.0	12.30	3.8	10.80	2/2	250		25.00	32.00	82,000		tr	21.11	2.70		75.00	3.50	79 / 50	38 / 26	10 / 9

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 Region: Offshore



Mud Property Recap: Water-Based Mud

DATE	DEPTH meters	FA TEMP Deg F	DENSITY Sp. Gr.	FUN VIS sec/qt	RHEOLOGY @ 120°F				pH	FILTRATION				FILTRATE ANALYSIS					SAND % by vol	RETORT ANALYSIS					MBT me/ml mud	RHEOMETER DIAL READINGS		
					PV cP	YP lbs/100 ft2	GELS			API ml/30 mi	HTHP ml/30 min	Cake 32nd in	Temp Deg F	Pm ml	Pf ml	Mf ml	Cl mg/L	Total Hardness mg/L		Corr Solids % by vol	LGS % by vol	Oil % by vol	Water % by vol	600/300		200/100	6/3	
23-06-98	3176	135	1.700	53	31.0	23.0	14.0/ 23.0	12.30	4.0	11.30	2/ 2	250			19.00	25.00	95,000		tr	20.98	3.14		74.50	3.50	85 / 54	44 / 31	14 / 12	
24-06-98	3185	138	1.700	60	35.0	20.0	12.0/ 20.0	12.30	3.6	10.60	2/ 2	250			25.00	30.00	90,000		tr	20.70	2.34		75.00	3.50	90 / 55	42 / 27	11 / 8	
25-06-98	3185		1.700	58	27.0	22.0	15.0/ 24.0	12.30	3.6	10.60	2/ 2	250			25.00	30.00	90,000		tr	20.70	2.34		75.00	3.50	78 / 49	39 / 27	15 / 14	
26-06-98	3185		1.700	58	27.0	22.0	14.0/ 23.0	12.30	3.6	10.60	2/ 2	250			25.00	30.00	90,000		tr	20.70	2.34		75.00	3.50	76 / 49	39 / 27	14 / 13	
27-06-98	3185		1.700	58	27.0	22.0	14.0/ 23.0	12.30	3.6	10.60	2/ 2	250			25.00	30.00	90,000		tr	20.70	2.34		75.00	3.50	78 / 49	39 / 27	14 / 13	
29-07-98	4515		1.030	28	1.0		/					293													/	/	/	



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Mud Property Recap: Oil-Based Mud (API Titrations)

DATE	DEPTH meters	FL TEMP Deg F	DENSITY Sp. Gr.	FUN VIS sec/qt	RHEOLOGY @ 120°F				ELECT STAB Volts	FILTRATION			WHOLE MUD ALK mg/L	LIME mg/L	WHOLE MUD CHLORIDE mg/L	WHOLE MUD CALCIUM ppb	SAND % by vol	RETORT ANALYSIS					RHEOMETER DIAL READINGS		
					PV cP	YP lbs/100	GELS lbs/100 ft2	HTHP ml/30 min		Cake 32nd in	TEMP Deg F	Corr Solids % by vol						LGS % by vol	OIL % by vol	Water % by vol	Oil Water Ratio	600/300	200/100	6/3	
28-06-98	3185		1.539	80	30.0	20.0	13.0/ 21.0	680	3.60	1.0	250	0.50	0.65	27000	14000.00	tr	19.89	2.10	59.00	20.00	75/ 25	80 / 50	37 / 25	11 / 10	
29-06-98	3304	124	1.539	67	32.0	21.0	15.0/ 19.0	680	3.60	1.0	250	0.45	0.58	30000	5000.00		20.35	3.18	58.00	20.00	74/ 26	85 / 53	42 / 29	13 / 12	
30-06-98	3370	124	1.539	60	31.0	17.0	12.0/ 18.0	700			250	1.13	1.46	30000	8000.00		18.46		60.00	20.00	75/ 25	79 / 48	38 / 27	11 / 10	
01-07-98	3405	127	1.539	55	29.0	16.0	13.0/ 16.0	700	3.00	1.0	250	1.90	2.46	30000	10700.00		20.56	3.69	58.00	20.00	74/ 26	74 / 45	35 / 24	11 / 10	
02-07-98	3466	127	1.539	55	29.0	15.0	9.0/ 14.0	700	3.00	1.0	250	2.00	2.59	29000	6000.00		19.95	2.12	60.00	18.50	76/ 24	73 / 44	34 / 24	9 / 8	
03-07-98	3466		1.539	53	29.0	14.0	9.0/ 12.0	720	3.00	1.0	250	1.90	2.46	31000	5800.00	tr	19.81	1.98	60.00	18.50	76/ 24	72 / 43	34 / 22	9 / 8	
04-07-98	3569	127	1.539	57	28.0	15.0	11.0/ 15.0	750	3.00	1.0	250	1.74	2.25	31000	10800.00	tr	20.50	3.52	59.00	19.00	76/ 24	71 / 43	35 / 24	10 / 9	
05-07-98	3694	130	1.539	57	27.0	19.0	12.0/ 15.0	730	3.00	1.0	250	1.70	2.20	32000	10000.00	tr	20.41	3.38	59.00	19.00	76/ 24	73 / 46	36 / 25	11 / 10	
06-07-98	3674	135	1.539	57	28.0	12.0	10.0/ 12.0	940	3.00	1.0	254	1.60	2.07	30000	8000.00	tr	20.46	3.23	60.00	18.00	77/ 23	68 / 40	29 / 20	7 / 6	
07-07-98	3956	130	1.539	68	28.0	12.0	8.0/ 14.0	1010	3.00	1.0	254	1.20	1.55	28000	7600.00	tr	20.56	3.21	61.00	17.00	78/ 22	68 / 40	29 / 20	7 / 6	
08-07-98	4038	138	1.539	56	30.0	14.0	11.0/ 20.0	940	2.70	1.0	266	1.00	1.30	28000	7000.00	tr	20.04	2.11	61.50	17.00	78/ 22	74 / 44	34 / 22	9 / 7	
09-07-98	4100		1.539	64	29.0	12.0	11.0/ 18.0	980	2.80	1.0	266	0.80	1.04	28000	7600.00	tr	20.56	3.10	62.00	18.00	79/ 21	70 / 41	30 / 20	8 / 7	
10-07-98	4132	118	1.539	60	30.0	14.0	11.0/ 20.0	950	2.80	1.0	266	1.00	1.30	28000	7000.00	tr	20.54	3.05	62.00	16.00	79/ 21	74 / 44	34 / 22	8 / 7	
11-07-98	4253	143	1.539	57	32.0	11.0	11.0/ 19.0	930	3.50	1.0	284	1.20	1.55	26000	7500.00	tr	20.68	3.22	62.00	16.00	79/ 21	75 / 43	32 / 22	8 / 7	
12-07-98	4273		1.539	55	30.0	12.0	11.0/ 20.0	940	3.00	1.0	284	1.20	1.55	26000	7000.00	tr	20.67	3.17	62.00	16.00	79/ 21	72 / 42	31 / 21	7 / 6	
13-07-98	4323	106	1.539	54	28.0	13.0	11.0/ 20.0	890	3.50	1.0	284	1.10	1.42	25000	8000.00	tr	20.76	3.10	64.00	14.00	82/ 18	65 / 39	29 / 20	7 / 6	
14-07-98	4349	86	1.539	65	30.0	12.0	11.0/ 20.0	920	3.50	1.0	284	1.20	1.55	26000	8000.00	tr	20.69	3.03	64.00	14.00	82/ 18	72 / 42	31 / 22	7 / 6	
15-07-98	4377		1.539	73	30.0	14.0	11.0/ 20.0	790	3.00	2.0	284	0.80	1.04	28000	8000.00	tr	21.07	4.07	62.50	15.00	81/ 19	74 / 44	34 / 22	8 / 7	
16-07-98	4453	118	1.539	60	32.0	16.0	11.0/ 19.0	860	3.00	2.0	284	0.80	1.04	8000	2900.00	tr	22.61	5.84	62.00	15.00	81/ 19	80 / 48	38 / 25	11 / 10	
17-07-98	4490	127	1.539	60	31.0	18.0	11.0/ 19.0	880	3.30	1.0	284	0.80	1.04	29000	8000.00	tr	21.50	5.05	62.00	15.00	81/ 19	80 / 49	36 / 26	11 / 10	
18-07-98	4515		1.539	55	28.0	13.0	11.0/ 17.0	845	3.20	2.0	293	0.80	1.04	28000	4500.00	tr	21.44	4.71	63.00	14.00	82/ 18	69 / 41	30 / 21	8 / 7	
19-07-98	4515		1.539	63	30.0	17.0	11.0/ 18.0	780	3.20	2.0	293	0.80	1.04	29000	6000.00	tr	21.43	4.88	62.00	15.00	81/ 19	77 / 47	37 / 25	10 / 9	
20-07-98	4515		1.539	58	30.0	17.0	11.0/ 18.0	780	3.10	2.0	293	0.80	1.04	29000	8000.00	tr	21.50	5.05	62.00	15.00	81/ 19	77 / 47	37 / 25	10 / 9	

Company: BP NORGE UA
 Well Name: 1/3-9S T2
 Contractor: Maersk Contractors Norge
 Rig: MAERSK JUTLANDER

Country: NORWAY
 Geo Area: NORTH SEA
 Field: JU8
 Region: Offshore



Mud Property Recap: Oil-Based Mud (API Titrations)

DATE	DEPTH meters	F.L TEMP Deg F	DENSITY Sp. Gr.	FUN VIS sec/qt	RHEOLOGY @ 120°F			ELECT STAB Volts	FILTRATION			WHOLE MUD ALK mg/L	LIME mg/L	WHOLE MUD CHLORIDE mg/L	WHOLE MUD CALCIUM ppb	SAND % by vol	RETORT ANALYSIS					RHEOMETER DIAL READINGS		
					PV cP	YP lbs/100	GELS lbs/100 ft2		HTHP ml/30 min	Cake 32nd in	TEMP Deg F						Corr Solids % by vol	LGS % by vol	OIL % by vol	Water % by vol	OIL Water Ratio	600/300	200/100	6/3
21-07-98	4515		1.539	60	30.0	16.0	11.0/ 18.0	800	3.10	2.0	293	0.70	0.91	29000	8000.00	TR	21.50	5.05	62.00	15.00	81/ 19	76 / 46	36 / 25	10 / 9
22-07-98	4515		1.539	60	30.0	16.0	12.0/ 18.0	785	3.10	2.0	293	0.75	0.97	29000	8000.00	0.2	21.50	5.05	62.00	15.00	81/ 19	76 / 46	36 / 25	10 / 9
23-07-98	4515		1.539	60	30.0	16.0	12.0/ 18.0	790	3.00	2.0	293	0.70	0.91	29000	8000.00	tr	21.50	5.05	62.00	15.00	81/ 19	76 / 46	36 / 26	10 / 9
24-07-98	4515	90	1.539	55	28.0	16.0	12.0/ 19.0	780	3.00	2.0	293	0.60	0.78	29500	8000.00	0.2	21.97	6.07	61.50	15.00	80/ 20	72 / 44	34 / 23	10 / 9
25-07-98	4515		1.539	60	28.0	16.0	12.0/ 18.0	800	3.00	2.0	293	0.60	0.78	29500	8000.00	tr	21.97	6.07	61.50	15.00	80/ 20	72 / 44	34 / 24	10 / 9
26-07-98	4515	75	1.539	60	28.0	16.0	11.0/ 17.0	780	3.00	2.0	293	0.60	0.78	29000	8000.00	TR	21.50	5.05	62.00	15.00	81/ 19	72 / 44	34 / 24	10 / 9
27-07-98	4515		1.539	60	28.0	16.0	12.0/ 18.0	780	3.00	2.0	293	0.60	0.78	2900	8000.00	0.2	22.86	5.98	62.00	15.00	81/ 19	72 / 44	34 / 24	10 / 9
28-07-98	4515	93	1.539	60	31.0	18.0	13.0/ 19.0	588	3.00	2.0	293	0.50	0.65	27000	8000.00	0.2	21.65	5.62	58.00	19.00	75/ 25	80 / 49	37 / 24	10 / 9