

5.3 Mud report

PHASES:

- 36" hole 30" csg. Drilled with sea water, return to sea bed. Filled the hole with spud mud (gel & lime) for setting of 30" csg. Drilled out cement with sea water.
- 26" hole 20" csg. Drilled with sea water. Spotted 50 bbl 1.20 sp.gr. mud before running 20" csg. Drilled out cement with sea water.
- 17½" hole 13-3/8" csg. Drilled with sea water to 445 m and circulated hole. Displaced hole with 600 bbls. prehydrated bentonite and circulated. Spotted 240 bbls mud. Circulated with sea water before cementing 13-3/8" casing.
- 12-1/4" hole 9-5/8" csg. Drilled cement with sea water. Displaced sea water with 420 bbls mud. Drilled to 905 m. MW = 1.10/Visc. = 35. Pumped high visc. mud to clean hole. Reamed hole. Increased weight to 1.27 at 1000 m. Drilled to 1319 m. Circulated and conditioned mud due to sloughing shale problems from 800 - 900 m. Spotted high visc. mud before running logs. MW = 1.18 Visc. = 120. Circulated before running csg. Lost 50 bbls to formation when attempting to circulate before cementing 9-5/8" casing.
- 8½" hole Installed 40/40 - 80/80 mesh screens on shakers. Drilled out float collar and cement with sea water. Drilled to 1450 m when hole became tight. MW = 1.15 Visc. = 50. Circulated 50 bbls high visc. mud to clean the hole.

Drilled to 1659 m and increased the viscosity prior to logging.

MW = 1.22 Visc. = 45

Increased mud weight to 1.25 at 1985 m. before coring. Pumped slug before P00H when coring.

A summary of mud properties is shown in table A.5.

Table A.5
MUD SUMMARY - WELL 16-3-2

MUD SYSTEM - SEAWATER GEL

Depth m	W.T. Sp.gr.	Funn Visc.	P.V. cp	Y.P. lb/100ft ²	Gels lb/100 ft ²	Ph	Water loss	Cake 32nd in	Pm	pf/mf	Cloride ppm	Calsium ppm	Sand %	Solids %	Oil %	Water %	Meth blue
191	1.2	150															
212	1.07	130															
212	1.05	125	12	54													
294	1.05	125	12	54													
445	1.06	130	15	70	35/45	10.5	25	3	4.0	.2/4	5000	80		3.5		96	25
440	1.06	130	15	70	35/45	10.5	25	3	4.0	.2/4	5000	80		3.5		96	25
603	1.08	35	6	8	1/3	9.0	10	1	.7	.1/-	7000	250		4		96	17
905	1.10	35	12	7	2/6	8.5	4	1	-	.1/-	8000	240		6		94	20
968	1.10	47	17	14	3/13	9.0	2.7	1	1.7	.9/-	5000	40	TR	7	0	83	25
1319	1.15	46	19	13	2/5	9.0	2.8	2	-	.4/-	18000	80	TR	7	0	93	29
1319	1.15	120	20	56	10/29	9.0	3.0	2	-	.3/-	18000	120	0	7	0	93	32
1319	1.15	50	19	16	2/13	9.0	3.0	2	1.1	.3/-	18000	240	TR	8	0	92	30
1319	1.15	44	18	11	2/10	9.0	3.0	2	1.2	.4/-	18000	40	0	8	0	92	21
1510	1.16	50	15	13	2/8	9.0	3.2	2	1.0	.2/-	18000	60	0	9	0	91	27

Table A.5
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MUD SUMMARY-WELL 16/3-2

Depth m	W.T. Sp.Gr	Funn Visc.	P.V. cp	Y.P. lb/100ft ²	Gels lb/100ft ²	Ph	Water loss	Cake 32nd in	Pm	Pf/Mf	Chloride ppm	Calcium ppm	Sand %	Solids %	Oil %	Water %	Met blue
1659	1.21	64	21	26	2/18	9.0	3.0	2	1.3	2/9	18 000	80	0	10	0	90	30
1659	1.22	55	16	14	4/6	9.0	4.0	2	1.0	-	18 000	90	-	10	-	80	25
1943	1.22	45	15	13	3/20	10.0	4.4	1	1.3	5/.9	18 000	40	-	9	-	91	25
1985	1.22	45	17	17	3/25	9.0	4.0	1	.9	4/1.1	18 000	40	-	9	-	91	25
2017	1.28	57	25	18	7/40	8	4	1	-	-	18 000	80	.5	11	-	88.5	25
2019	1.25	55	19	23	10/45	8	4	1	-	-	18 000	110	-	10	-	90	25

Table A.5
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