

Drilling Mud Report(Off Shore)

Engineer

K.Mori
H. Ito

No. 77

Date 4, January, 2014

TOTAL Depth(MSL) 4,319.5m

Company MOJ

Well Name C0002P (NT3-01)

BRT Depth: 4,348.0 m, SSL Depth: 2,380.5 m

Casing Program		Mud Volume & Bit Data		Pump Data		String Data		Circulation Data (min)	
Conductor	36 in 2,121.5 m	Riser Vol. (m ³)	392	Pump No.1 (l/st)	19.45	DP Size (in)	5	Surface to Bit	11
Intermediate	20 in 2,827.8 m	CSG Vol. (m ³)	154	Pump No.2 (l/st)	19.45	DC1 Size (in)	8.5	Bottom's Up	118
Intermediate	13.375 in 3,976.5 m	B/Hole Vol. (m ³)	45	Pump No.3 (l/st)	19.45	DC2 Size (in)		Surf to Surf	129
Intermediate	in m	Disp Vol. (m ³)	21	P/Speed No.1 (spm)	93	A/Vel DP (m/min)	38	System Total	158
Intermediate	in m	T/Circ Vol. (m ³)	671	P/Speed No.2 (spm)	93	A/Vel DC1(m/min)	49	P/ Press(Mpa)	32.6
Intermediate	in m	Pit Vol. (m ³)	100	P/Speed No.3 (spm)	88	A/Vel Rise(ft/min)			
Production	in m	Bit Size (inch)	14.5	Rate (gal/min)	1,366				

Mud Type:	KNPP	Mud Properties				Materials Name		Daily Amount	Total Amount	Daily Cost
Time (Sampling : Suction)		4:00	13:30	21:00	Tel-Bar					
Depth (m)		4159	4238	4336	Kunigel VO (Bulk)					
Mud Weight (SG/PPG)		1.32	11.0	1.32	11.0	1.32	11.0			
Funnel Viscosity(sec./qt.)		104	105	109	NaCl					
A.V(cps) at /49 cent.		70	71 / 43	76	KCL					
P.V(cps)		43	44 / 27	47	Tel-Polymer DX					
Y.V(lb/100ft ²)		54	54 / 32	58	Tel-Polymer L					
10"Gel(lb/100ft ²)		10	10 / 7	11	Tel-Polymer H					
10"Gel(lb/100ft ²)		14	14 / 16	15	XCD-Polymer					
API Filtrate(cc/30min.)		2.6	2.5	2.5	Soda Ash					
Cake Thickness(mm)		0.5	0.5	0.5	Caustic potash					
pH(-)		11.0	11.1	11.1	Clean Lube					
Pf(cc)		0.2	0.1	0.1	Tel Clean					
Pm(cc)		2.7	3.0	2.9	Bi-Carbonate					
Mf(cc)		0.5	0.4	0.4	Lime					
Cl (mg/l)		117,200	117,200	117,200	Defoamer 30C					
Sand Content(%)		0.2	0.2	0.2	Telnite GXL					
Oil Content(% Vol.)		0	0	0	Tel-DD					
Solid Content(% Vol.)		15	15	15	Caustic soda					
M.B.C.(cc/cc.mud)		1.75	1.75	1.75	Lignite NC					
Temperature(in/out cent.)		13	12	14	12	14	12			
HT-HP Filtrate(cc)					Astex S					
HT-HP Filtrate Cake(mm)					Xanvis					
K' (mg/l)		32,400	31,800	31,800	Tel Stop G					
Ca ⁺⁺ /Mg ⁺⁺ (mg/l)		80	80	80	Tel Stop P					
n Value(600rpm/300rpm)		0.53	0.54	0.53	Tel Mica C					
k Value(600rpm/300rpm)		3.58	1.99	3.77	Tel Mica M					
LGS/Drill Solids(% Vol.)		3.1	2.1	3.1	2.1	3.1	2.1			
					Tel Mica F					
					Tel Plug C					
					Tel Plug M					
					Tel Plug F					
					Tan Cal M					
					Tan Cal F					
					Tan Cal FF					
					EZ Spot (gal/drm)					
					Speeder P					
					Speeder X					
					Treat HS					

VG METER READING							
Time	Temp	600rpm	300rpm	200rpm	100rpm	6rpm	3rpm
4:00		140	97	78	54	14	10
13:30	15 49	142 86	98 59	80 48	56 34	13 8	9 5
21:00		152	105	85	58	15	10

Well Summary

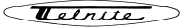
Open 12-1/4" hole to 14-1/2" f/ 4121m t/4348m. Sweep out 10m3 of Hivis mud. Circulation.
 Added 2,000kg of NaCl, 2,000kg of KCL, 400kg of Tel-Clean, 1,200kg of Astex-S, 100kg of Telpolymer DX and 1,600kg of Clean lube into dilution mud.
 Added 800kg of Clean lube, 250kg of Caustic potash and 800kg of Astex S into circulation mud.

On hand and Remarks

1.13sg KNPP mud : 44m3 @Re#2
 1.28sg KNPP(Circ) mud: 173m3 @Re#3
 1.28sg dilution mud : 59m3 @Act#2
 1.32sg Hi-vis mud : 31m3 @Act#6
 1.13sg 20%LCM mud :24m3 @Act#3 Today's lost mud --m3. (Total 496m3).

Shale Shaker						De-Sander		Mud Cleaner		Centrifuge			
No.	#.1	#.2	#.3	#.4	#.5	#.6	#.1	#.2	#.1	#.2	#.1	#.2	#.3
Top	10	10	10	10	10	10							
Btm1	200	200	200	200	200	200					OFF	OFF	OFF
Btm2	200	200	200	200	200	200							

Daily Cost	
Total Cost	



MATERIALS REPORT

NO. 77

Well Name C0002P (NT3-01)

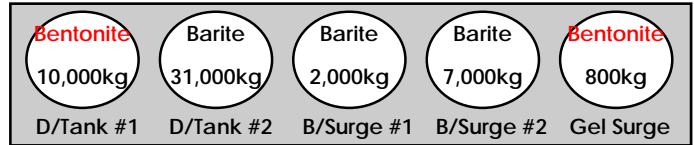
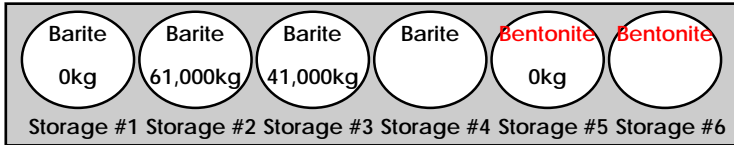
DATE 4. Jan. 14

TIME 24:00

Status of Bulk Tank

Tank Name	Materials	RCV/Slide	Used	On Hand	Remarks
Storage #1	Barite			0kg	
Storage #2	Barite			61,000kg	
Storage #3	Barite			41,000kg	
Storage #4	Barite				
Storage #5	Bentonite			0kg	
Storage #6	Bentonite				

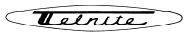
Tank Name	Materials	RCV/Slide	Used	On Hand	Remarks
D/Tank #1	Bentonite			10,000kg	
D/Tank #2	Barite		10,000kg	31,000kg	
Bar/Surge #1	Barite	4,000kg	4,000kg	2,000kg	
Bar/Surge #2	Barite	6,000kg	3,000kg	7,000kg	
Gel Surge	Bentonite			800kg	



Total Bulk Tank W.T. 152,800kg

(Unit : kg)

Materials Name	Unit Price	Receive	T/Receive	B/Load	TTL B/Load	Used	Total Used	Cost	On Hand	Remarks
Tel-Bar	41,000		457,700			7,000	315,700	287,000	142,000	
Kunigel VO (Bulk)	47,500		29,460				18,660		10,800	
NaCL	40,000		200,000			2,000	184,000	80,000	16,000	
KCL	150,000		185,000			2,000	177,000	300,000	8,000	
Tel-Polymer DX	1,150,000		32,360			100	27,420	115,000	4,940	
Tel-Polymer L	1,550,000		19,120				17,020		2,100	
Tel-Polymer H	1,550,000		7,080				5,620		1,460	
XCD-Polymer	2,500,000		6,400			50	6,225	125,000	175	
Soda Ash	90,000		7,625				6,225		1,400	
Caustic potash	406,800		7,275			250	5,425	101,700	1,850	
Clean Lube	550,000		121,600			2,400	116,000	1,320,000	5,600	
Tel Clean	900,000		10,400			400	9,600	360,000	800	
Bi-Carbonate	150,000		3,000				2,000		1,000	
Lime	41,600		1,400				160		1,240	
Defoamer 30C	3,250,000		224				32		192	
Telnite GXL	3,900,000		54				18		36	
Tel-DD	640,000		3,200						3,200	
Caustic soda	150,000		1,000				200		800	
Lignite NC	377,000		2,000						2,000	
Astex S	1,250,000		16,600			2,000	15,800	2,500,000	800	
Xanvis	2,500,000		700						700	
Tel Stop G	240,000		500						500	
Tel Stop P	240,000		1,000						1,000	
Tel Mica C	450,000		500						500	
Tel Mica M	450,000		2,000				1,000		1,000	
Tel Mica F	450,000		2,500				1,500		1,000	
Tel Plug C	350,000		500						500	
Tel Plug M	350,000		1,980				780		1,200	
Tel Plug F	350,000		1,980				1,000		980	
Tan Cal M	40,000		7,680				3,450		4,230	
Tan Cal F	40,000		7,680				3,180		4,500	
Tan Cal FF	70,000									
EZ Spot (gal/drm)	85,800		550						550	#85,800/drm
Speeder P	820,000		1,700						1,700	
Speeder X	870,000		1,700						1,700	
Treat HS	800,000		2,160						2,160	



BALLAST REPORT(Off Shore)

NO. 77

Well Name C0002P (NT3-01)

DATE 4, Jan, 14

TIME 24:00

Active Tank

Tank Name	Status	M/W	Vol.	Monitor	Lo Limit	Remarks
Active #1	KNPP	1.32sg	20.0KL			Circ mud
Active #2	KNPP	1.28sg	59.0KL			Dilution mud
Active #3	20%LCM mud	1.13sg	24.0KL			
Active #4	KNPP	1.32sg	55.0KL			Circ mud
Active #5	KNPP	1.32sg	54.0KL			Circ mud
Active #6	Hi-Vis mud	1.32sg	31.0KL			
Chemical	Seawater	1.03sg	8.0KL			
Slug	Slug mud	1.56sg	10.0KL			

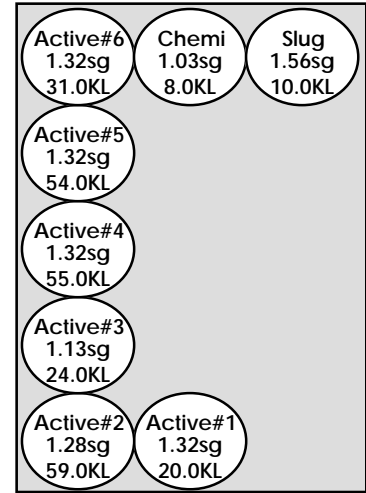
Chemical Tank

Tank Name	Status	Weight	Monitor
Storage #1	Barite	0kg	
Storage #2	Barite	61,000kg	
Storage #3	Barite	41,000kg	
Storage #4	Barite		
Storage #5	Bentonite	0kg	
Storage #6	Bentonite		
Daily Tank#1	Bentonite	10,000kg	
Daily Tank #2	Barite	31,000kg	
Bar/Surge #1	Barite	2,000kg	
Bar/Surge #2	Barite	7,000kg	
Gel/Surge #2	Bentonite	800kg	

Chemical Tank Total WT 152.8 ton

Reserve Tank & Solid Control Tank

Tank Name	Status	M/W	Vol.	Monitor	Lo Limit	Remarks
Reserve #1	Empty					
Reserve #2	KNPP	1.13sg	44.0KL			
Reserve #3	KNPP	1.28sg	173.0KL			
Reserve #4	Empty					
Reserve #5	Empty					
Reserve #6	Dirty Sea water	1.03sg	160.0KL			
Reserve #7	Dirty Sea water	1.03sg	182.0KL			
Reserve #8	Dirty Sea water	1.03sg	182.0KL			
Sand Trap	KNPP	1.32sg	10.0KL			
Degasser	KNPP	1.32sg	10.0KL			
Desander	KNPP	1.32sg	10.0KL			
Desilter	KNPP	1.32sg	10.0KL			
Soli/con CF	KNPP	1.32sg	10.0KL			
Mud Return	KNPP	1.32sg	10.0KL			
Barite Rec CF	Drill water	1.00sg				



Mud Tank Total WT 1227.8 ton

Bulk Material

Unit(kg)

Materials Name	Receive	Total Receive	Use	Total Use	On Hand	Remarks
Tel-Bar		457,700	7,000	315,700	142,000	
Kunigel VO (Bulk)		29,460		18,660	10,800	

Total SX ROOM Weight 68.3 ton

Total Weight 1,448.8 ton

Made by : H. Ho