

Drilling Mud Report(Off Shore)

Engineer M.Sawaguchi
K.Mori

No. 20

Date 8, November, 2013

TOTAL Depth(MSL) 3,648.5 m

Company MQJ

Well Name C0002F

BRT Depth: 3,677.0 m, SSL Depth: 1,709.5 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)	5.5	Surface to Bit	10
Intermediate	20 in 2,827.8 m	CSG Vol. (m ³)	143	Pump No.2 (l/st)	19.45	DC1 Size (in)	8.5	Bottom's Up	138
Intermediate	in m	B/Hole Vol. (m ³)	128	Pump No.3 (l/st)	19.45	DC2 Size (in)		Surf to Surf	148
Intermediate	in m	Disp Vol. (m ³)	26	P/Speed No.1 (spm)	95	A/Vel DP (ft/min)	90	System Total	162
Intermediate	in m	T/Circ Vol. (m ³)	687	P/Speed No.2 (spm)	95	A/Vel DC1(ft/min)		P/ Press(Mpa)	30.8
Intermediate	in m	Pit Vol. (m ³)	50	P/Speed No.3 (spm)	80	A/Vel Riser(ft/min)			
Production	in m	Bit Size (inch)	17	Rate (gal/min)	1,346				

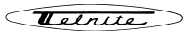
Mud Type:	KNPP	Mud Properties			Materials Name		Daily Amount	Total Amount	Daily Cost
Time (Sampling : Suction)		4:00	14:00	17:00	Tel-Bar				
Depth (m)		Pit	pit	Hi-vis	Kunigel VO (Bulk)				
Mud Weight (SG/PPG)		1.12 9.3	1.12 9.3	1.12 9.3	NaCl				
Funnel Viscosity(sec./qt.)		80	75	300	KCL				
A.V(cps) at / cent.		46.5	41.5 / 24	130	Tel-Polymer DX				
P.V(cps)		31	30 / 17	76	Tel-Polymer L				
Y.V(lb/100ft ²)		31	23 / 14	108	Tel-Polymer H				
10"Gel(lb/100ft ²)		4	4 / 2		XCD-Polymer				
10'Gel(lb/100ft ²)		6	6 / 4		Soda Ash				
API Filtrate(cc/30min.)		4.0	4.2		Caustic potash				
Cake Thickness(mm)		0.5	0.5		Clean Lube				
pH(-)		12.2	12.1	9.5	Tel Clean				
Pf(cc)		0.3	0.4		Bi-Carbonate				
Pm(cc)		8.2	8.1		Lime				
Mf(cc)		0.6	0.6		Defoamer 30C				
Cl (mg/l)		81,700	82,400		Telnite GXL				
Sand Content(%)		0.3	0.2		Tel-DD				
Oil Content(% Vol.)		0	0		Caustic soda				
Solid Content(% Vol.)		8	8		Lignite NC				
M.B.C.(cc/cc.mud)		0.75	0.75		Tel Stop G				
Temperature(in/out cent.)		16	17	17	Tel Stop P				
HT-HP Filtrate(cc)					Tel Mica C				
HT-HP Filtrate Cake(mm)					Tel Mica M				
K ⁺ (mg/l)		33,000	33,000		Tel Mica F				
Ca ⁺⁺ /Mg ⁺⁺ (mg/l)		80 0	80		Tel Plug C				
n Value(600rpm/300rpm)		0.58	0.63	0.50	Tel Plug M				
k Value(600rpm/300rpm)		1.62	0.61	8.21	Tel Plug F				
LGS/Drill Solids(% Vol.)		2.1 1.7	2.1 1.7		Tan Cal M				
					Tan Cal F				
					Tan Cal FF				
					EZ Spot (gal/drm)				
					Speeder P				
					Speeder X				

VG METER READING							
Time	Temp	600rpm	300rpm	200rpm	100rpm	6rpm	3rpm
4:00		93	62	48	31	6	4
14:00		83 48	53 31	40 24	26 16	6 2	3 1
17:00		260	184	150	109	35	25

Well Summary
 Made Short trip to shoe. Tight Spot@3376m-3374m, 3365m 3330m, 3328m, 3322m-3316m, 3305m, 3290m-3282m, 3219m, 3212m, 3155m
 Pump slug mud. POOH to above BOP(1939m).
 Drill line cut and slip. RIH f/1939m t/3616m. T/weight 250kN
 Wash down f/3616m t/3644m. Pump Hi-vis mud 10m3, cont wash down f/3644m t/3645m, Drilling on.

On hand and Remarks
 1.11sg KNPP mud : 145m3 @Res#1
 1.08sg KNPP mud : 127m3 @Act#2 and Act#5,
 1.12sg 300qt/sec Hi-vis mud : 7m3 @Act#1
 1.26sg Slug mud: 11m3@slug tank
 Run centrifuge (No.1 22:00 - 24:00) (No.2 22:00-24:00)(No.3 23:00-24:00)

Shale Shaker						De-Sander		Mud Cleaner		Centrifuge			
No.	#.1	#.2	#.3	#.4	#.5	#.6	#.1	#.2	#.1	#.2	#.1	#.2	#.3
Top	20	20	20	20	20	20					ON	ON	ON
Btm1	200	200	200	200	200	200							
Btm2	200	200	200	200	200	200							
Daily Cost													
Total Cost													



BALLAST REPORT(Off Shore)

NO. 20

Well Name C0002F

DATE 8, Nov, 13

TIME 24:00

Active Tank

Tank Name	Status	M/W	Vol.	Monitor	Lo Limit	Remarks
Active #1	Hi-vis mud	1.12sg	7.0KL			for flush
Active #2	KNPP	1.08sg	61.0KL			
Active #3	Empty					
Active #4	KNPP	1.12sg	50.0KL			Circulation
Active #5	KNPP	1.08sg	66.0KL			Dilution
Active #6						
Chemical	Empty					
Slug	Slug mud	1.28sg	11.0KL			

Chemical Tank

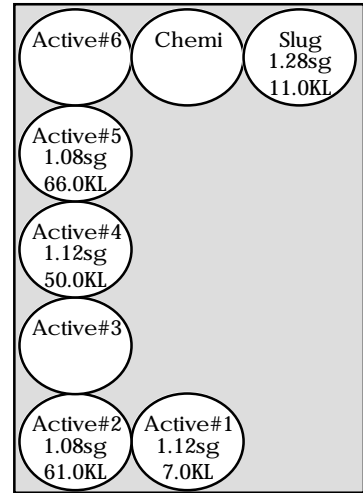
Tank Name	Status	Weight	Monitor
Storage #1	Barite	134,000kg	
Storage #2	Barite	92,000kg	
Storage #3	Barite		
Storage #4	Barite		
Storage #5	Bentonite	0kg	
Storage #6	Bentonite		
Daily Tank #1	Bentonite	10,000kg	
Daily Tank #2	Barite	0kg	
Bar/Surge #1	Barite	6,000kg	
Bar/Surge #2	Barite	500kg	
Gel/Surge #2	Bentonite	2,000kg	

Chemical Tank Total WT 244.5 ton

Reserve Tank & Solid Control Tank

Tank Name	Status	M/W	Vol.	Monitor	Lo Limit	Remarks
Reserve #1	KNPP	1.11sg	145.0KL			
Reserve #2	Empty					
Reserve #3	KNPP	1.10sg	93.0KL			
Reserve #4	Empty					
Reserve #5	Return SW	1.03sg	165.0KL			Not use
Reserve #6	Empty					
Reserve #7	Empty					
Reserve #8	Empty					
Sand Trap	KNPP	1.12sg	10.0KL			
Degasser	KNPP	1.12sg	10.0KL			
Desander	KNPP	1.12sg	10.0KL			
Desilter	KNPP	1.12sg	10.0KL			
Soli/con CF	KNPP	1.12sg	10.0KL			
Mud Return	KNPP	1.12sg	10.0KL			
Barite Rec CF	Drill water	1.00sg				

Mud Tank Total WT 715.5 ton

Bulk Material

Unit(kg)

Materials Name	Receive	Total Receive	Use	Total Use	On Hand	Remarks
Tel-Bar		263,240		30,740	232,500	
Kunigel VO (Bulk)		29,460		17,460	12,000	

Total SX ROOM Weight 77.9 ton

Total Weight 1,037.9 ton

Made by : K.mori