

### Drilling Mud Report(Off Shore)

K.Mori  
M.Sawaguchi

No. 41

Date 29, November, 2013

Engineer M.Sawaguchi  
TOTAL Depth(MSL) 3,980.5 m  
BRT Depth: 4,009.0 m, SSL Depth: 2,041.5 m

Company MQJ

Well Name C0002N (NT3-01)

Casing Program		Mud Volume & Bit Data		Pump Data		String Data		Circulation Data (min)	
Conductor	36 in 2,121.5 m	Riser Vol. (m <sup>3</sup> ) :	392	Pump No.1 (l/st) :	19.45	DP Size (in) :	5	Surface to Bit :	10
Intermediate	20 in 2,827.8 m	CSG Vol. (m <sup>3</sup> ) :	158	Pump No.2 (l/st) :	19.45	DC1 Size (in) :	8.5	Bottom's Up :	147
Intermediate	13.375 in 3,976.5 m	B/Hole Vol. (m <sup>3</sup> ) :	2	Pump No.3 (l/st) :	19.45	DC2 Size (in) :		Surf to Surf :	158
Intermediate	in m	Disp Vol. (m <sup>3</sup> ) :	17	P/Speed No.1 (spm) :	90	A/Vel DP (ft/min) :	177	System Total :	187
Intermediate	in m	T/Circ Vol. (m <sup>3</sup> ) :	636	P/Speed No.2 (spm) :	90	A/Vel DC1(ft/min) :			
Intermediate	in m	Pit Vol. (m <sup>3</sup> ) :	100	P/Speed No.3 (spm) :		A/Vel Riser(ft/min) :			
Production	in m	Bit Size (inch) :	12.25	Rate (gal/min) :	897			P/ Press(Mpa) :	16.7

Mud Type:	KNPP	Mud Properties				Materials Name	Daily Amount	Total Amount	Daily Cost
Time (Sampling : Suction )		3:00		16:00		Tel-Bar			
Depth (m)		Pit		Pit		Kunigel VO (Bulk)			
Mud Weight (SG/PPG)		1.15	9.6	1.15	9.6	NaCL			
Funnel Viscosity(sec./qt.)		83		86		KCL			
A.V(cps) at / cent.		51.5		55 /27.5		Tel-Polymer DX			
P.V(cps)		35		38 / 20		Tel-Polymer L			
Y.V(lb/100ft <sup>2</sup> )		33		34 / 15		Tel-Polymer H			
10"Gel(lb/100ft <sup>2</sup> )		4		4 / 3		XCD-Polymer			
10'Gel(lb/100ft <sup>2</sup> )		7		7 / 6		Soda Ash			
API Filtrate(cc/30min.)		3.3		3.3		Caustic potash			
Cake Thickness(mm)		0.5		0.5		Clean Lube			
pH(-)		12.4		12.3		Tel Clean			
Pf(cc)		0.4		0.4		Bi-Carbonate			
Pm(cc)		7.6		7.5		Lime			
Mf(cc)		0.9		0.9		Defoamer 30C			
Cl (mg/l)		82,000		78,100		Telnite GXL			
Sand Content(%)		0.6		0.6		Tel-DD			
Oil Content(% Vol.)		0		0		Caustic soda			
Solid Content(% Vol.)		8		8		Lignite NC			
M.B.C.(cc/cc.mud)		1.00		1.00		Astex S			
Temperature(in/out cent.)		18		17					
HT-HP Filtrate(cc)						Tel Stop G			
HT-HP Filtrate Cake(mm)						Tel Stop P			
K' (mg/l)		33,600		33,000		Tel Mica C			
Ca <sup>++</sup> /Mg <sup>++</sup> (mg/l)		120		120		Tel Mica M			
n Value(600rpm/300rpm)		0.60		0.65		Tel Mica F			
k Value(600rpm/300rpm)		1.62		0.60		Tel Plug C			
LGS/Drill Solids(% Vol.)		1.1	0.5	1.3	0.8	Tel Plug M			
						Tel Plug F			
						Tan Cal M			
						Tan Cal F			
						Tan Cal FF			
						EZ Spot (gal/drm)			
						Speeder P			
						Speeder X			

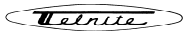
VG METER READING							
Time	Temp	600rpm	300rpm	200rpm	100rpm	6rpm	3rpm
3:00		103	68	51	33	5	3
16:00	15 49	110 55	72 35	56 27	36 17	6 3	4 2

**Well Summary**  
 Con't Wire line job to locate stuck point. Confirmed Stuck point F/3,960.44m-T/3,979.45m. Retrieve FPIT on wire line. Run gauge tool and explosive tool. Back off operations.  
 M/up Back off tools and RIH to back off connection point at 3855m.  
 Apply left hand torque 37kNm 20 turns and pick up to 2800kN and down to 2400kN 5 times. Shoot Back off tool with H/w 2400kN. String turned 1/4 to left. Torque dropped to 0.6kN. POOH Back off tool assembly. R/down wire line. Circ bottoms up  
 Today's lost mud --m3. (Total 481m3).

**On hand and Remarks**  
 1.11sg KNPP mud : 470m3 @Re#1, Re#2 and Re#3  
 1.16sg Hi-vis mud : 43m3 @Act#1  
 1.13sg 20%LCM mud :24m3 @Act#3

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					OFF	OFF	OFF
Btm1	145	145	145	145	145	145							
Btm2	145	145	145	145	145	145							
Daily Cost													
Total Cost													





# BALLAST REPORT(Off Shore)

NO. 41

Well Name C0002N (NT3-01)

DATE 29, Nov, 13

TIME 24:00

Active Tank

Tank Name	Status	M/W	Vol.	Monitor	Lo Limit	Remarks
Active #1	Hi-Vis mud	1.16sg	43.0KL			
Active #2	Empty					
Active #3	20%LCM mud	1.13sg	24.0KL			
Active #4	KNPP	1.15sg	55.0KL			
Active #5	KNPP	1.13sg	36.0KL			
Active #6	Return SW	1.03sg	27.0KL			
Chemical	Empty					
Slug	Slug mud	1.38sg	6.0KL			

Chemical Tank

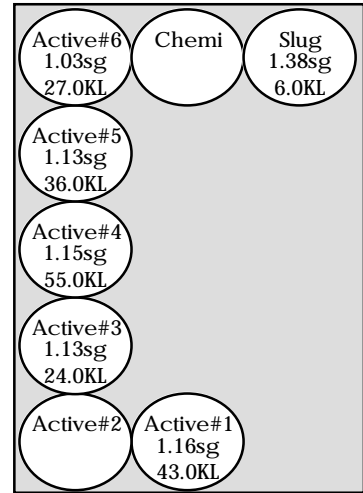
Tank Name	Status	Weight	Monitor
Storage #1	Barite	134,000kg	
Storage #2	Barite	15,000kg	
Storage #3	Barite		
Storage #4	Barite		
Storage #5	Bentonite	0kg	
Storage #6	Bentonite		
Daily Tank #1	Bentonite	10,000kg	
Daily Tank #2	Barite	45,500kg	
Bar/Surge #1	Barite	3,500kg	
Bar/Surge #2	Barite	3,500kg	
Gel/Surge #2	Bentonite	800kg	

Chemical Tank Total WT 212.3 ton

Reserve Tank & Solid Control Tank

Tank Name	Status	M/W	Vol.	Monitor	Lo Limit	Remarks
Reserve #1	KNPP	1.11sg	170.0KL			
Reserve #2	KNPP	1.11sg	180.0KL			
Reserve #3	KNPP	1.11sg	120.0KL			
Reserve #4	Return SW	1.03sg	156.0KL			
Reserve #5	Empty					
Reserve #6	Empty					
Reserve #7	Return SW	1.03sg	152.0KL			
Reserve #8	Return SW	1.03sg	182.0KL			
Sand Trap	KNPP	1.13sg	10.0KL			
Degasser	KNPP	1.13sg	10.0KL			
Desander	KNPP	1.13sg	10.0KL			
Desilter	KNPP	1.13sg	10.0KL			
Soli/con CF	KNPP	1.13sg	10.0KL			
Mud Return	KNPP	1.13sg	10.0KL			
Barite Rec CF	Drill water	1.00sg				

Mud Tank Total WT 1311.2 ton

Bulk Material

Unit(kg)

Materials Name	Receive	Total Receive	Use	Total Use	On Hand	Remarks
Tel-Bar		263,240		61,740	201,500	
Kunigel VO (Bulk)		29,460		18,660	10,800	

Total SX ROOM Weight 134.2 ton

Total Weight 1,657.7 ton

Made by : M.sawaguchi