

Drilling Mud Report(Off Shore)

Engineer **H.Ito**
M.Sawaguchi

No. **51**

Date **9, December, 2013**

TOTAL Depth(MSL) **3,887.5 m**

Company **MQJ**

Well Name **C0002N (NT3-01)**

BRT Depth: **3,916.0 m**, SSL Depth: **1,948.5 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 | 18 |
| 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 | 261 |
| Intermediate | 13.375 in 3,976.5 m | B/Hole Vol. (m ³) | | Pump No.3 (l/st) | 19.45 | DC2 Size (in) | | Surf to Surf | 279 |
| Intermediate | in m | Disp Vol. (m ³) | 19 | P/Speed No.1 (spm) | 100 | A/Vel DP (ft/min) | | System Total | 332 |
| Intermediate | in m | T/Circ Vol. (m ³) | 627 | P/Speed No.2 (spm) | | A/Vel DC1(ft/min) | | P/ Press(Mpa) | |
| Intermediate | in m | Pit Vol. (m ³) | 100 | P/Speed No.3 (spm) | | A/Vel Riser(ft/min) | | | |
| Production | in m | Bit Size (inch) | 12.25 | Rate (gal/min) | 498 | | | | |

| Mud Type: | KNPP | Mud Properties | | | | Materials Name | | Daily Amount | Total Amount | Daily Cost |
|---|------|----------------|---------|-----|-------------------|----------------|--|--------------|--------------|------------|
| Time (Sampling : Suction) | | 2:00 | 17:00 | | 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.) | | 78 | 78 | | KCL | | | | | |
| A.V(cps) at / cent. | | 50 | 50 / 25 | | Tel-Polymer DX | | | | | |
| P.V(cps) | | 35 | 35 / 19 | | Tel-Polymer L | | | | | |
| Y.V(lb/100ft ²) | | 30 | 30 / 12 | | Tel-Polymer H | | | | | |
| 10"Gel(lb/100ft ²) | | 3 | 3 / 3 | | XCD-Polymer | | | | | |
| 10'Gel(lb/100ft ²) | | 6 | 6 / 5 | | Soda Ash | | | | | |
| API Filtrate(cc/30min.) | | 3.7 | 3.7 | | Caustic potash | | | | | |
| Cake Thickness(mm) | | 0.5 | 0.5 | | Clean Lube | | | | | |
| pH(-) | | 12.2 | 12.2 | | Tel Clean | | | | | |
| Pf(cc) | | 0.3 | 0.3 | | Bi-Carbonate | | | | | |
| Pm(cc) | | 5.5 | 5.5 | | Lime | | | | | |
| Mf(cc) | | 0.6 | 0.6 | | Defoamer 30C | | | | | |
| Cl (mg/l) | | 78,100 | 78,100 | | Telnite GXL | | | | | |
| Sand Content(%) | | 0.3 | 0.3 | | 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.) | | 16 | 16 | | Tel Stop G | | | | | |
| HT-HP Filtrate(cc) | | | | | Tel Stop P | | | | | |
| HT-HP Filtrate Cake(mm) | | | | | Tel Mica C | | | | | |
| K' (mg/l) | | 31,800 | 31,800 | | Tel Mica M | | | | | |
| Ca ⁺⁺ /Mg ⁺⁺ (mg/l) | | 120 | 120 | | Tel Mica F | | | | | |
| n Value(600rpm/300rpm) | | 0.62 | 0.69 | | Tel Plug C | | | | | |
| k Value(600rpm/300rpm) | | 1.35 | 0.42 | | Tel Plug M | | | | | |
| LGS/Drill Solids(% Vol.) | | 1.4 0.8 | 1.4 | 0.8 | Tel Plug F | | | | | |
| | | | | | Tan Cal M | | | | | |
| | | | | | Tan Cal F | | | | | |
| | | | | | Tan Cal FF | | | | | |
| | | | | | EZ Spot (gal/drm) | | | | | |
| | | | | | Speeder P | | | | | |
| | | | | | Speeder X | | | | | |

Well Summary

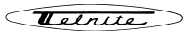
Continue run #1 CCLwith Junk Basket and Shinker Weight. Tag depth 3917.3m. Rig/down sch. M/up and RIH WBRRT.Test BOP. POOH. Displacement Boost, Kill and Choke line. Close DVS ram with ST lock. Displacement Riser with Sea water.

On hand and Remarks

- 1.11sg KNPP mud : 470m3 @Re#1, Re#2 and Re#3
- 1.16sg Hi-vis mud : 27m3 @Act#2
- 1.13sg 20%LCM mud :24m3 @Act#3
- 1.15sg Return KNPP mud :528m3 @Re#5,Re#6 and Re#7

Today's lost mud --m3. (Total 481m3).

| 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 | | | | | | | |
| Btm1 | 180 | 180 | 145 | 145 | 180 | 180 | | | | | ON | OFF | OFF |
| Btm2 | | | | | | | | | | | | | |
| Daily Cost | | | | | | | | | | | | | |
| Total Cost | | | | | | | | | | | | | |



BALLAST REPORT(Off Shore)

NO. 51

Well Name C0002N (NT3-01)

DATE 9, Dec, 13

TIME 24:00

Active Tank

| Tank Name | Status | M/W | Vol. | Monitor | Lo Limit | Remarks |
|-----------|---------------------|--------|--------|---------|----------|---------|
| Active #1 | Empty | | | | | |
| Active #2 | Hi-Vis mud | 1.16sg | 27.0KL | | | |
| Active #3 | 20%LCM mud | 1.13sg | 24.0KL | | | |
| Active #4 | KNPP (contami. S/W) | 1.13sg | 23.0KL | | | |
| Active #5 | Empty | 1.15sg | 42.0KL | | | |
| Active #6 | Return SW | 1.03sg | 67.0KL | | | |
| Chemical | Empty | | | | | |
| Slug | Slug mud | 1.38sg | 6.0KL | | | |

Chemical Tank

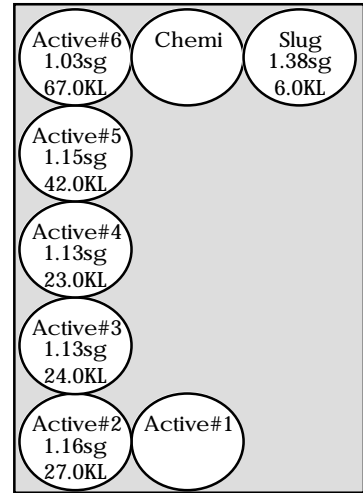
| Tank Name | Status | Weight | Monitor |
|---------------|-----------|-----------|---------|
| Storage #1 | Barite | 134,000kg | |
| Storage #2 | Barite | 15,000kg | |
| Storage #3 | Barite | | |
| Storage #4 | Barite | | |
| Storage #5 | Bentonite | 0kg | |
| Storage #6 | Bentonite | | |
| Daily Tank #1 | Bentonite | 10,000kg | |
| Daily Tank #2 | Barite | 40,000kg | |
| Bar/Surge #1 | Barite | 2,500kg | |
| Bar/Surge #2 | Barite | 1,500kg | |
| Gel/Surge #2 | Bentonite | 800kg | |

Chemical Tank Total WT 203.8 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 | Empty | | | | | |
| Reserve #5 | KNPP | 1.15sg | 182.0KL | | | |
| Reserve #6 | KNPP | 1.15sg | 182.0KL | | | |
| Reserve #7 | KNPP | 1.15sg | 164.0KL | | | |
| Reserve #8 | Empty | | | | | |
| Sand Trap | KNPP | 1.15sg | 10.0KL | | | |
| Degasser | KNPP | 1.15sg | 10.0KL | | | |
| Desander | KNPP | 1.15sg | 10.0KL | | | |
| Desilter | KNPP | 1.15sg | 10.0KL | | | |
| Soli/con CF | KNPP | 1.15sg | 10.0KL | | | |
| Mud Return | KNPP | 1.15sg | 10.0KL | | | |
| Barite Rec CF | Drill water | 1.00sg | | | | |

Mud Tank Total WT 1407.9 ton



Bulk Material

Unit(kg)

| Materials Name | Receive | Total Receive | Use | Total Use | On Hand | Remarks |
|-------------------|---------|---------------|-----|-----------|---------|---------|
| Tel-Bar | | 263,240 | | 70,240 | 193,000 | |
| Kunigel VO (Bulk) | | 29,460 | | 18,660 | 10,800 | |

Total SX ROOM Weight 136.8 ton

Total Weight 1,748.5 ton

Made by : M.sawaguchi