

Operator : University of Texas
Report For : Tom Pettigrew
Well Name : OCS-G 30344 Hole H002
Contractor/Rig: Helix/Q4000
Report For : David Cobb

Field/Area : Green Canyon
Description : Block 955
Location : Offshore
Water Depth : 6664
Log-It # : 254627

Depth/TVD : 8112 ft/8112 ft
Date : 13-May-17
Spud Date :
Mud Type : WBM Other (M-I SWACO)
Activity : Coring

| DRILLING ASSEMBLY | | CASING | | MUD VOLUME (bbl) | | CIRCULATION DATA | | | |
|------------------------------|--|--------|--|---------------------------|-------------|-------------------|-----------------------|--------------|--|
| 7911 ft, 5.875 in Drill Pipe | | | | Hole | Active Pits | Pump Make | NOV HEX II | NOV HEX II | |
| 2 ft, 8.5 in Sub | | | | 285.4 | #N/A | Pump Liner x Stk | 4.5x11.8in | 4.5x11.8in | |
| 120 ft, 8.5 in Drill Collar | | | | Total Circulating Volume | | Pump Capacity | 4.87 gal/stk | 4.87 gal/stk | |
| 3 ft, 8.5 in Stabilizer | | | | #N/A | | Pump stk/min | 71 @100% | @100% | |
| 30 ft, 8.5 in Drill Collar | | | | Depth Drilled Last 24 hr | | Flow Rate | 346.00 gal/min | | |
| 3 ft, 8.5 in Stabilizer | | | | 30 ft | | Pump Pressure | psi | | |
| Nozzles 5x20 / x 1/32" | | | | Volume Drilled Last 24 hr | | Bottoms Up | 10.11 min/ 717.96 stk | | |
| 9.875in | | | | 2.98 bbl | | Total Circulation | 0 min/ 0stk | | |

| MUD PROPERTIES | | | | | PRODUCTS USED Last 24 hr | | |
|------------------------------|-----------------|---------------|-----------------|-----------------|-------------------------------------|------------|----------|
| Sample From | Pad Mud @ 02:00 | Sweep @ 06:00 | Pad Mud @ 19:00 | Pad Mud @ 21:30 | Products | Size | Amount |
| FlowLine Temp °F | 80 | 80 | 80 | 80 | | | |
| Depth/TVD ft | 8092 / 8092 | / | 8112 / 8112 | 8112 / 8112 | | | |
| Mud Weight /Temp lb/gal @ °F | 10.5 @ 80 | 10.5 @ | 10.5 @ 80 | 10.5 @ 80 | | | |
| Funnel Viscosity sec/qt | 80 | | 80 | 79 | | | |
| Rheology Temp °F | 80 | 82 | 80 | 80 | | | |
| R600/R300 | 46 / 30 | 89 / 67 | 37 / 25 | 24 / 18 | | | |
| R200/R100 | 24 / 17 | 61 / 54 | 17 / 13 | 14 / 11 | | | |
| R6/R3 | 8 / 7 | 23 / 21 | 8 / 6 | 6 / 5 | | | |
| PV cP | 16 | 22 | 12 | 6 | | | |
| YP lb/100ft² | 14 | 45 | 13 | 12 | | | |
| 10s/10m/30m Gel | 7 / 13 / | 29 / 35 / | 5 / 11 / | 5 / 10 / | | | |
| API Fluid Loss cc/30min | 7.8 | | 8 | 8.2 | | | |
| HTHP Fluid Loss cc/30min | | | | | | | |
| Cake APT/HT 1/32" | 1 / | | 1 / | 1 / | | | |
| Solids %vol | 10 | | 9 | 10 | | | |
| Oil/Water %vol | 0/90 | | 0/91 | 0/90 | Drilling Fluids Supervisor | | 1.0 |
| Sand %vol | 0.1 | | 0.1 | 0.1 | Drilling Fluids Supervisor | | 1.0 |
| MBT lb/bbl | 7.5 | | 6.25 | 7.5 | | | |
| pH / Temp | 9.1 @ 80 | | 8.3 @ 80 | 8.5 @ 80 | SOLIDS CONTROL EQUIPMENT Last 24 hr | | |
| Alkal Mud (Pm) | 0.2 | | | 0.1 | Type | Model/Size | Hrs Used |
| Pf/Mf | 0.3 / 0.7 | | 0.1 / 0.3 | 0.2 / 0.4 | | | |
| Chlorides mg/L | 16500 | | 17800 | 18000 | | | |
| Hardness (Ca++) | 2400 | | 2400 | 2400 | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | MUD PROPERTY SPECS min-max | | Actual |
| | | | | | | - | |
| | | | | | | - | |
| | | | | | | - | |

| REMARKS AND TREATMENT | REMARKS |
|---|---|
| Building 10.5 ppg. Mud using the Hi Side Blender, with the 16 ppg. Mud and Seawater. Adding Duovis, PolyPac R and Lime to the 10.5 ppg. Mud | Drilled to 8,112' with 10.5 ppg. mud, pumping 25 bbl 10.5 ppg HI Vis sweeps as needed to clean the hole. Performed core 2CS. Working on Core 3CS observed restriction and could not pull free. Wireline finally pulled free. Pulled out of the hole with Core 3CS. Performed core 4CS, 5CS and 6CS. |

| TIME DISTRIBUTION Last 24 hrs | | MUD VOL ACCTG (bbl) | | SOLIDS ANALYSIS | | RHEOLOGY & HYDRAULICS | |
|-------------------------------|----|---------------------|-----|-------------------|---------------|-----------------------|---------------------|
| Drilling | 2 | Water Added | | NaCl | %vol / lb/bbl | 0.74 / 8.64 | n |
| Circulating / Hole C | 4 | Mud Received | | KCl | %vol / lb/bbl | 0 / 0 | k |
| Rig Up / Tear Down | 6 | Mud Returned | | Low Gravity | % / lb/bbl | 3.08 / 28.01 | Tauy |
| Coring Operations | 10 | Other Subsurface | 273 | Bentonite | % / lb/bbl | 0.79 / 7.22 | Bit loss/%, psi/% |
| Fishing Operations | 2 | Other Subsurface | 76 | Drill Solids | % / lb/bbl | 2.54 / 23.08 | Bit HHP/HIS |
| | | | | Weight Material | % / lb/bbl | 6.18 / 88.73 | Jet Velocity, ft/s |
| | | | | Chemical Conc | lb/bbl | | Va Pipe, ft/min |
| | | | | Inert/React | | 2.7 | Va Collars, ft/min |
| | | | | Average SG Solids | | 3.6 | CVa Pipe, ft/min |
| | | | | | | | CVa Collars, ft/min |
| | | | | | | | ECD at Shoe, lb/gal |
| | | | | | | | ECD at TD, lb/gal |

| M-I Engineer | Phone | email | Whse Phone | Rig Phone | Daily cost | Cumulative Cost |
|----------------|--------------|--|--------------|--------------|------------|-----------------|
| Begona Sanchez | 281-942-4001 | GLopez27@slb.com | 985-303-6218 | 281-942-4001 | | |
| Karey Louviere | 281-942-4001 | klouviere@slb.com | | | | |