

## Daily Activity Information

| From        | To   | Hrs. |   |
|-------------|------|------|---|
| 0600        | 1400 | 8.0  | Continued rigging up derrick,work on pump: 1000 |
|             |      |      | Prepare to raise sub mast . s/m raise subs      |
| 1400        | 1500 | 1.0  | Spud meeting with Periscope                     |
| 1500        | 1800 | 3.0  | Connect electric lines, r/u v-door install sha  |
| 1800        | 0600 | 12.0 | Organize tools, r/u cameras, install derrick l  |
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| Total Hours |      | 24.0 | Diesel R  |

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|---|-------------------------------------|--------------|
|   | <i>Present Operation @ 0600 Hrs</i> |              |
|   |                                     |              |
| s. s/m and raise derrick.   |                                     |              |
| and continue rigging up stairs. r/u air hoist and run electric lines. |                                     |              |
|   |                                     |              |
| ker motor.  |                                     |              |
| ladder, work on hydraulic catwalk. Fill water tanks with fresh water. |                                     |              |
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|   |                                     |              |
| Received  | 7,226                               | Diesel Total |

[illegible]

Continue to rig up. Fill mud tanks

Diesel Left

[illegible]

## Daily Activity Information

| From        | To   | Hrs. |  |
|-------------|------|------|--|
| 0600        | 1800 | 12.0 | Install 4 inch vibrator hose from rig floor to 5 |
|             |      |      | install Shaker screen strip rubbers on shak      |
|             |      |      | around drawworks, remove guards on draw          |
|             |      |      | troubleshoot communication issue scr hous        |
|             |      |      | tank on 10" seals,                               |
| 1800        | 0600 | 12.0 | Continue to reassemble brakes on drawwork        |
|             |      |      | Called TRRC spoke with operator Lucy JOE         |
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| Total Hours |      | 24.0 | Diesel R   |

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|---|------------------------------|--|
|   | Present Operation @ 0600 Hrs |  |
|   |                              |  |
| Subs. Clean and organize dog house. Clean and organize mud Pump House,      |                              |  |
| ers, Rig up - install slides on Shaker's, rig up standpipe,install walkways |                              |  |
| vworks, disassemble brake calipers and repair, set up racks for casing,     |                              |  |
| ie to Top Dog House, reassemble brakes on drawworks. Reset bulk bar         |                              |  |
|   |                              |  |
| s, test and run drawworks. Spool up drill line and anchor to deadman.       |                              |  |
| 3 # 76549   |                              |  |
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[illegible]



Continue to rig up

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|  |  | Diesel Left |
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[illegible]

**Daily Activity Information**

| From        | To   | Hrs. |   |
|-------------|------|------|---|
| 0600        | 1800 | 12.0 | Safety Meeting, Unhang blocks, Hook up bl     |
|             |      |      | washer pump on #1 pump                        |
| 1800        | 0600 | 12.0 | Continue rigging up-working with PD mecha     |
|             |      |      | to top drive. Waiting on catwalk motor. Insta |
|             |      |      | on mud pumps.Rig pvc in backyard.Clean c      |
|             |      |      | Received 900bbl brine                         |
|             |      |      |   |
|             |      |      | SIMOPS: extend outlet on 20" conductor ou     |
|             |      |      |   |
|             |      |      | Plan Forward: Complete Rig-up, Preform F      |
|             |      |      | mud, Drill 17.5 Section                       |
|             |      |      |   |
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| Total Hours |      | 24.0 | Diesel R                                      |

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|--|------------------------------|--------------|
|  | Present Operation @ 0600 Hrs |              |
| locks to TDS, Adjust services loop, Change out oil in TDS, Install liner   |                              |              |
| anic on catwalk, rebuild swivel packing and change out. Install Kelly hose |                              |              |
| ill bales and elevators, work on stuck hyd. lbop, pump through 2" lines    |                              |              |
| out and fill duckponds for pump.   |                              |              |
| utlet, dig ditches around rig  |                              |              |
| Rig inspection & Pre spud safety meeting, Pick-up BHA while mixing spud    |                              |              |
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|  |                              |              |
| Received   | 7,226                        | Diesel Total |

[illegible]

Continue to rig up

2,259

Diesel Left

[illegible]

**Casing Information**

| Type         | OD  | ID |
|--------------|-----|----|
| Conductor    | 20" |    |
| Surface      |     |    |
| Intermediate |     |    |
| Drlg Liner   |     |    |
| Production   |     |    |

**Daily Activity Information**

| From        | To   | Hrs. |  |
|-------------|------|------|--|
| 0600        |      |      | Safety Meeting, Rig up test lines, rig up Wi |
|             | 1100 | 5.0  | load BHA on racks strap and caliper, get all |
| 1100        | 1230 | 1.5  | Pre spud inspection                          |
| 1230        | 1300 | 0.5  | Pre Spud safety in meeting                   |
| 1300        | 1700 | 4.0  | P/U BHA, Mix spud mud                        |
| 1700        | 1800 | 1.0  | Spud well @1700 hrs Drill F/110' T/160' 20   |
| 1800        | 1830 | 0.5  | Rig service                                  |
| 1830        | 2400 | 5.5  | Drill F/160' T/350' gpm-502 rpm-60 wob -2'   |
| 2400        | 0030 | 0.5  | Wireline survey @320' 0.51 deg.              |
| 30          | 0300 | 2.5  | Drill F/350' T/407' gpm-700, wob-30, rpm-70  |
| 300         | 330  | 0.5  | Recalibrate rig with pason                   |
| 0330        | 0600 | 2.5  | Drill F/407' T/532' wob-20 spm-170 gpm-70    |
|             |      |      | 125' rop-50                                  |
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|             |      |      |  |
| Total Hours |      | 24.0 | Diesel R                                     |

**Directional Survey Information**

| MD            | ANGLE | Azimuth |
|---------------|-------|---------|
| 320           | 0.51  | 14.2    |
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| REPORT # TIME |       |         |
| Date          |       |         |



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|-----------------|--|--|
| Temperature     |  |  |
| TVD             |  |  |
| Weight          | 8.3  |  |
| Viscosity       | 32   |  |
| PV              |  |  |
| YP              |  |  |
| Gels            |  |  |
| Filtrate 30 min |  |  |
| HTHP            |  |  |
| Cake            |  |  |
| %Solids         |  |  |
| %Oil            |  |  |
| %Water          |  |  |
| %Sand           |  |  |
| PH              |  |  |
| MBT             |  |  |
| Pm              |  |  |
| Pf              |  |  |
| Mf              |  |  |
| Chloride        |  |  |
|                 |  |  |
| Calcium         |  |  |
| 600 RPM         |  |  |
| 300 RPM         |  |  |
| %LGS            |  |  |
| System bbls     |  |  |
| Mud Loss        |  |  |
| Cum Mud Loss    |  |  |
| Safety Notes    | No accidents, No incidents or Environmental issues |  |

|  | Weight | Grade |  |
|--|--------|-------|--|
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|--|-------------------------------------|
|  | <b>Present Operation @ 0600 Hrs</b> |
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|   |
|---|
| ireline machine, installed pump on catwalk and function test, |
| l subs and bit to rig floor                                   |
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|---|
| wob, 40 rpms, 400 gpm, Pump 30BBL,50 vis Sweeps every 45', full returns |
|---|

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| 5 tq-7-10 k , 34.5 rop, Pump 35 BBL, 50 vis Sweeps every 45', full returns |
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|---|
| 0,tq-8k, 22.8rop, Pump 40 BBL, 50vis Sweeps every 45', full returns |
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|---|
| 00 rpm-80 tq-7k pp-1050 Pump 40 BBL, 50 vis sweeps every 45', full return |
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|----------|-------|--------------|
| Received | 7,226 | Diesel Total |
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| TVD | V S | +N / -S |
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| 320 |     |         |
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|  |  | MT.    | CURRENT |
|  |  | Bit No | 1       |
|  |  | Size   | 17.5    |

|           |            |   |   |  |
|-----------|------------|---|---|--|
| Make      | Drillpoint |   |   |  |
| Serial    | 500194     |   |   |  |
| Type      | DV6165     |   |   |  |
| Nozzles   | 16s        | X | 9 |  |
| Depth Out |            |   |   |  |
| Depth In  | 145        |   |   |  |
| Footage   | 387        |   |   |  |
| Hours     | 11.5       |   |   |  |
| ROP       | 34         |   |   |  |
| WOB       | 30         |   |   |  |
| Rot RPM   | 70         |   |   |  |
| TFA       | 1.76000    |   |   |  |
| MM RPM    |            |   |   |  |
| Torque    | 8000       |   |   |  |
| Grade     |            |   |   |  |

### **Pump & Hydraulics Information**

| COMBO    | Pump #1 |
|----------|---------|
| Type     | BSF     |
| Liner    | 6       |
| Stroke   | 12      |
| SPM      | 85      |
| %Eff     | 95      |
| Gal/Strk | 0.10    |
| Bbl/Strk | 4.1000  |
| Gal/Min  | 680.00  |
| Pressure | 974     |
| AV DP    |         |
| AV DC    |         |



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| Pump #2 |
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| BSF     |
| 6       |
| 12      |
| 85      |
| 95      |
| 0.10    |
| 4.1000  |
| 680.00  |
| 974     |
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| 1  | shc |
| 1  | 8"  |
| 1  | IB  |
| 1  | 8"  |
| 1  | IB  |
| 1  | 8"  |
| 1  | x   |
| 12 | 6.5 |
| 1  | xo  |
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|---------|
| BHA Hrs |
| Muc     |
| Bg Gas  |
| Con Gas |
| Tr Gas  |
| MAX     |
| Est PP  |
| ECD     |
|         |
| %Shale  |
| %Sand   |
| %Lime   |
| %Other  |
| DEPTH   |



|                   |         |         |  |                |  |
|-------------------|---------|---------|--|----------------|--|
| ock               | 8"      | 3"      |  | 6 5/8reg       |  |
| dc                | 7 15/16 | 3 1/16" |  | 6 5/8reg       |  |
| is                | 17.25   | 2 7/8"  |  | 6 5/8reg       |  |
| dc                | 7 15/16 | 3 1/16" |  | 6 5/8reg       |  |
| is                | 8       | 3       |  | 6 5/8 reg      |  |
| dc                | 7 15/16 | 3 1/16  |  | 6 5/8 reg      |  |
| o                 | 6.5     | 4 3/16  |  | 6 5/8-4.5      |  |
| dc                | 6.5     | 2 5/16  |  | 4.5xh          |  |
|                   | 6 5/8   | 2 7/16  |  | xh/if 4.5      |  |
|                   |         |         |  |                |  |
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| 11.5              |         |         |  | Total BHA      |  |
| 1 Log Information |         |         |  | BOP Test       |  |
|                   |         |         |  | Last Test      |  |
|                   |         |         |  | Next Test      |  |
|                   |         |         |  | Test PSI       |  |
|                   |         |         |  | Safety Topic   |  |
|                   |         |         |  | Testing Equip. |  |
|                   |         |         |  | Accident       |  |
| Lithology         |         |         |  | NONE           |  |
|                   |         |         |  | Personnel      |  |
|                   |         |         |  | Contractor     |  |
|                   |         |         |  | Service Co     |  |
|                   |         |         |  | Co-Rep         |  |
|                   |         |         |  | Totals         |  |





[illegible]

**Casing Information**

| Type         | OD  | ID |
|--------------|-----|----|
| Conductor    | 20" |    |
| Surface      |     |    |
| Intermediate |     |    |
| Drlg Liner   |     |    |
| Production   |     |    |

**Daily Activity Information**

| From        | To   | Hrs. |   |
|-------------|------|------|---|
| 0600        | 0630 | 0.5  | Drill F/532'- T/555', 30kbw, spm-170, gpm-7     |
| 0630        | 0830 | 2.0  | Repair conductor drain valve, weld back into    |
| 0830        | 1200 | 3.5  | Drill F/555'- T/686', 30kbw, spm-170, gpm-8     |
| 1200        | 1230 | 0.5  | Rig Service                                     |
| 1230        | 1500 | 2.5  | Drill F/586'- T/870', 30kbw, spm-170, gpm-8     |
| 1500        | 1530 | 0.5  | Circulate & run WLS 30' off BTM, 837'= 0.9      |
| 1530        | 1800 | 2.5  | Drill F/870'- T/1035', 30kbw, spm-170, gpm-     |
|             |      |      | returns.  |
| 1800        | 1830 | 0.5  | Rig Service                                     |
| 1830        | 2330 | 5    | Drill F/1,035' T/1,338' wob-35 rpm-90 gpm-4     |
| 2330        | 2400 | 0.5  | Survey @1,307' Inclination 1.83 degrees         |
| 2400        | 0430 | 4.5  | Drill F/1,338' T/1,349' Top drive stalling out  |
|             |      |      | Drill torque leveled out and would not increa   |
|             |      |      | to see if bit was balled up. Full returns throu |
| 0430        | 0600 | 1.5  | TOH to inspect 17.5 drill bit. No drag hole to  |
|             |      |      |   |
|             |      |      |   |
|             |      |      |   |
|             |      |      |   |
| Total Hours |      | 24.0 | Diesel R  |

**Directional Survey Information**

| MD            | ANGLE | Azimuth |
|---------------|-------|---------|
| 320           | 0.51  | 14.2    |
| 837           | 0.91° |         |
| 1307          | 1.83  |         |
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|               |       | Current |
| REPORT # TIME |       |         |
| Date          |       |         |

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|-----------------|--|--|--|
| Temperature     |  |  |  |
| TVD             |  |  |  |
| Weight          | 8.3  |  |  |
| Viscosity       | 28   |  |  |
| PV              | 1  |  |  |
| YP              | 1  |  |  |
| Gels            |  |  |  |
| Filtrate 30 min |  |  |  |
| HTHP            |  |  |  |
| Cake            |  |  |  |
| %Solids         | 0.6  |  |  |
| %Oil            |  |  |  |
| %Water          | 99.4   |  |  |
| %Sand           |  |  |  |
| PH              | 7.0  |  |  |
| MBT             |  |  |  |
| Pm              |  |  |  |
| Pf              | 0  |  |  |
| Mf              | 0  |  |  |
| Chloride        | 1000   |  |  |
|                 |  |  |  |
| Calcium         | 120  |  |  |
| 600 RPM         |  |  |  |
| 300 RPM         |  |  |  |
| %LGS            |  |  |  |
| System bbls     |  |  |  |
| Mud Loss        |  |  |  |
| Cum Mud Loss    |  |  |  |
| Safety Notes    | No accidents, No incidents or Environmental issues |  |  |

|  | Weight | Grade |  |
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|--|-------------------------------------|
|  | <b>Present Operation @ 0600 Hrs</b> |
|--|-------------------------------------|

700, rpm-80 tq-78k pp-1050 Pump 40 BBL, 50 vis sweeps every 30', full return  
 o conductor  
 300, rpm-80, tq-9k pp-1050 Pump 40 BBL, 50 vis sweeps every 30', full return

300, rpm-80, tq-10k pp-1050 Pump 40 BBL, 50 vis sweeps every 30', full return  
 1°  
 -800, rpm-80, tq-12k pp-1050 Pump 40 BBL, 50 vis sweeps every 30', full

800 tq-10 pp-1100 pump 40 bbl , 50 vis sweep every 30'full returns

t without reaching limits, ibop valve came loose repaired the same.  
 ase. Team decision to toh and inspect bit. Many attempts were made  
 igh out job.  
 ook proper fill.

|          |       |              |
|----------|-------|--------------|
| Received | 7,135 | Diesel Total |
|----------|-------|--------------|

| TVD | V S | +N / -S |
|-----|-----|---------|
| 320 |     |         |
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|  | MT.    | CURRENT |
|  | Bit No | 1       |
|  | Size   | 17.5    |

|           |            |   |   |  |
|-----------|------------|---|---|--|
| Make      | Drillpoint |   |   |  |
| Serial    | 500194     |   |   |  |
| Type      | DV6165     |   |   |  |
| Nozzles   | 16s        | X | 9 |  |
| Depth Out | 1349       |   |   |  |
| Depth In  | 145        |   |   |  |
| Footage   | 1204       |   |   |  |
| Hours     | 30         |   |   |  |
| ROP       | 40         |   |   |  |
| WOB       | 25-30k     |   |   |  |
| Rot RPM   | 70-90      |   |   |  |
| TFA       | 1.76000    |   |   |  |
| MM RPM    | 0          |   |   |  |
| Torque    | 8000       |   |   |  |
| Grade     |            |   |   |  |

### ***Pump & Hydraulics Information***

| COMBO    | Pump #1 |
|----------|---------|
| Type     | BSF     |
| Liner    | 6       |
| Stroke   | 12      |
| SPM      | 85      |
| %Eff     | 95      |
| Gal/Strk | 0.10    |
| Bbl/Strk | 4.1000  |
| Gal/Min  | 680.00  |
| Pressure | 974     |
| AV DP    |         |
| AV DC    |         |



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| Pump #2 |
|---------|
| BSF     |
| 6       |
| 12      |
| 85      |
| 95      |
| 0.10    |
| 4.1000  |
| 680.00  |
| 974     |
|         |
|         |

|    |     |
|----|-----|
| 1  | shc |
| 1  | 8"  |
| 1  | IB  |
| 1  | 8"  |
| 1  | IB  |
| 1  | 8"  |
| 1  | x   |
| 12 | 6.5 |
| 1  | xo  |
|    |     |
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|         |
|---------|
| BHA Hrs |
| Muc     |
| Bg Gas  |
| Con Gas |
| Tr Gas  |
| MAX     |
| Est PP  |
| ECD     |
|         |
| %Shale  |
| %Sand   |
| %Lime   |
| %Other  |
| DEPTH   |

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[illegible]

**Casing Information**

| Type         | OD     | ID     |
|--------------|--------|--------|
| Conductor    | 20"    |        |
| Surface      | 13.375 | 12.715 |
| Intermediate |        |        |
| Drlg Liner   |        |        |
| Production   |        |        |

**Daily Activity Information**

| From        | To    | Hrs. |  |
|-------------|-------|------|--|
| 06:00       | 07:30 | 1.5  | .Trip out of hole & XO bits, Proper fill, 5k m |
| 07:30       | 10:00 | 2.5  | Trip in hole & PU 3-6.5" DCs, 2' fill, 5k unde |
| 10:00       | 14:00 | 4.0  | Drill F/1,349' T/1431,' wob-45k rpm-110 gpr    |
| 14:00       | 14:30 | 0.5  | Rig Service                                    |
| 14:30       | 17:30 | 3.0  | Drill F/1,431' T/1507' TD', wob-45k rpm-110    |
| 17:30       | 18:30 | 1.0  | Circ pump sweeps, spot 100 bbl pill out of t   |
| 18:30       | 22:30 | 4    | S/M drop gyro, toh l/d gyro break out bit l/d  |
| 22:30       | 23:00 | 0.5  | Clean rig floor to prep for running casing.    |
| 23:00       | 03:00 | 4    | S/M with butches casing crew r/u casing cre    |
|             |       |      | Run 36jnts, H-40, 48#, stc Casing, F/0' - T/   |
|             |       |      | 1506.50, Test float, Casing fill at 400', 1000 |
| 03:00       | 03:30 | 0.5  | Rig down casing crew                           |
| 03:30       | 06:00 | 2.5  | Wait on cementers, Circulate and reciproca     |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
| Total Hours |       | 24.0 | Diesel R                                       |

**Directional Survey Information**

| MD            | ANGLE | Azimuth |
|---------------|-------|---------|
| 320           | 0.51  | 14.2    |
| 837           | 0.91° |         |
| 1307          | 1.83  |         |
|               |       |         |
|               |       |         |
|               |       |         |
|               |       |         |
|               |       |         |
|               |       |         |
|               |       |         |
|               |       | Current |
| REPORT # TIME |       |         |
| Date          |       |         |

|                 |  |  |  |
|-----------------|--|--|--|
| Temperature     |  |  |  |
| TVD             |  |  |  |
| Weight          | 8.3  |  |  |
| Viscosity       | 28   |  |  |
| PV              | 1  |  |  |
| YP              | 1  |  |  |
| Gels            |  |  |  |
| Filtrate 30 min |  |  |  |
| HTHP            |  |  |  |
| Cake            |  |  |  |
| %Solids         | 0.6  |  |  |
| %Oil            |  |  |  |
| %Water          | 99.4   |  |  |
| %Sand           |  |  |  |
| PH              | 7.0  |  |  |
| MBT             |  |  |  |
| Pm              |  |  |  |
| Pf              | 0  |  |  |
| Mf              | 0  |  |  |
| Chloride        | 1000   |  |  |
|                 |  |  |  |
| Calcium         | 120  |  |  |
| 600 RPM         |  |  |  |
| 300 RPM         |  |  |  |
| %LGS            |  |  |  |
| System bbls     |  |  |  |
| Mud Loss        |  |  |  |
| Cum Mud Loss    |  |  |  |
| Safety Notes    | No accidents, No incidents or Environmental issues |  |  |

|  | Weight | Grade |  |
|--|--------|-------|--|
|  |        |       |  |
|  | 48     | H-40  |  |
|  |        |       |  |
|  |        |       |  |
|  |        |       |  |

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|--|-------------------------------------|
|  | <b>Present Operation @ 0600 Hrs</b> |
|--|-------------------------------------|

ax overpull  
 er Slack off wt  
 n- 5k tq, pp-1750 pump 40 bbl , 50 vis sweep every 30'full returns

0 gpm- 5k tq, pp-1750 pump 40 bbl , 50 vis sweep every 30'full returns  
 bit @1507'  
 8" dc's shock subs and xo's.

ew and make up shoe track and run 13 3/8 h-40 48# casing T/1505'  
 1505',Shoe set at 1505', Float collar at 1459', Total length of assembly  
 1'

ite casing F/1505'-T/1495', at 332gpm = 250psi, with full returns

|          |       |              |
|----------|-------|--------------|
| Received | 7,135 | Diesel Total |
|----------|-------|--------------|

| TVD | V S | +N / -S |
|-----|-----|---------|
| 320 |     |         |
|     |     |         |
|     |     |         |
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|  |  | MT.    | CURRENT |
|  |  | Bit No | 2       |
|  |  | Size   | 17.5    |

|           |         |    |    |  |
|-----------|---------|----|----|--|
| Make      | Veral   |    |    |  |
| Serial    | 5224765 |    |    |  |
| Type      | VG-20C  |    |    |  |
| Nozzles   | 18      | 18 | 20 |  |
| Depth Out | 1507    |    |    |  |
| Depth In  | 1349    |    |    |  |
| Footage   | 158     |    |    |  |
| Hours     | 7.5     |    |    |  |
| ROP       | 21      |    |    |  |
| WOB       | 40      |    |    |  |
| Rot RPM   | 80      |    |    |  |
| TFA       | 1.75000 |    |    |  |
| MM RPM    |         |    |    |  |
| Torque    | 7       |    |    |  |
| Grade     | 1/1     |    |    |  |

### ***Pump & Hydraulics Information***

| COMBO    | Pump #1 |
|----------|---------|
| Type     | BSF     |
| Liner    | 6       |
| Stroke   | 12      |
| SPM      | 85      |
| %Eff     | 95      |
| Gal/Strk | 0.10    |
| Bbl/Strk | 4.1000  |
| Gal/Min  | 680.00  |
| Pressure | 974     |
| AV DP    |         |
| AV DC    |         |





|            |   |   |  |
|------------|---|---|--|
| Drillpoint |   |   |  |
| 500194     |   |   |  |
| DV6165     |   |   |  |
| 16s        | X | 9 |  |
| 1349       |   |   |  |
| 145        |   |   |  |
| 1204       |   |   |  |
| 30         |   |   |  |
| 40         |   |   |  |
| 25-30k     |   |   |  |
| 70-90      |   |   |  |
| 1.76000    |   |   |  |
| 0          |   |   |  |
| 8000       |   |   |  |
| 6/3        |   |   |  |

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|---------|--|--|--|
| Pump #2 |  |  |  |
| BSF     |  |  |  |
| 6       |  |  |  |
| 12      |  |  |  |
| 85      |  |  |  |
| 95      |  |  |  |
| 0.10    |  |  |  |
| 4.1000  |  |  |  |
| 680.00  |  |  |  |
| 974     |  |  |  |
|         |  |  |  |
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|    |     |
|----|-----|
| 1  | shc |
| 1  | 8"  |
| 1  | IB  |
| 1  | 8"  |
| 1  | IB  |
| 1  | 8"  |
| 1  | x   |
| 15 | 6.5 |
| 1  | xo  |
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|         |  |
|---------|--|
| BHA Hrs |  |
| Muc     |  |
| Bg Gas  |  |
| Con Gas |  |
| Tr Gas  |  |
| MAX     |  |
| Est PP  |  |
| ECD     |  |
|         |  |
| %Shale  |  |
| %Sand   |  |
| %Lime   |  |
| %Other  |  |
| DEPTH   |  |







[illegible]

| From        | To    | Hrs. |   |
|-------------|-------|------|---|
| 06:00       | 07:30 | 1.5  | Rig up cementers                                |
| 07:30       | 08:00 | 0.5  | Safety Meeting with Cementers (Basic), DS       |
| 08:00       |       |      | Cement 13.375 Casing, Pumping secdual a         |
|             |       |      | Cement: 780sks, 259bbl, 1.87YP,12.8ppg,         |
|             |       |      | , Class "C" Cement, Displacement: 229bbl        |
|             | 10:00 | 2.0  | Bleed back 1bbl to surface, Floats held,CIP     |
| 10:00       |       |      | WOC, SIOPS: rig down cementers,& flush          |
|             | 16:00 | 6    | pumps to inside reserve pit, install gas bust   |
| 16:00       |       |      | Slack off string (no movement),Remove cer       |
|             |       |      | Remove 20" casing, Make final cut on 13.3       |
|             | 20:30 | 4.5  | and test to 500 psi. Test good                  |
| 20:30       | 24:00 | 3.5  | Nipple up bop,install rig up lines to top drive |
|             |       |      | change out ram rubbers. Install power chok      |
| 24:00       | 06:00 | 6.0  | Install mud cross,hrc valve and hydraulic ho    |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
| Total Hours |       | 24.0 | Diesel R  |

| <i>MD</i>       | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------------|--------------|----------------|
| 320             | 0.51         | 14.2           |
| 837             | 0.91°        |                |
| 1307            | 1.83         |                |
|                 |              |                |
|                 |              |                |
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|                 |              |                |
| <b>Current</b>  |              |                |
| REPORT # TIME   |              |                |
| Date            |              |                |
| Temperature     |              |                |
| TVD             |              |                |
| Weight          | 9.7          |                |
| Viscosity       | 28           |                |
| PV              |              |                |
| YP              |              |                |
| Gels            |              |                |
| Filtrate 30 min |              |                |

|              |  |  |
|--------------|--|--|
| HTHP         |  |  |
| Cake         |  |  |
| %Solids      |  |  |
| %Oil         |  |  |
| %Water       |  |  |
| %Sand        |  |  |
| PH           |  |  |
| MBT          |  |  |
| Pm           |  |  |
| Pf           |  |  |
| Mf           |  |  |
| Chloride     |  |  |
|              |  |  |
| Calcium      |  |  |
| 600 RPM      |  |  |
| 300 RPM      |  |  |
| %LGS         |  |  |
| System bbls  |  |  |
| Mud Loss     |  |  |
| Cum Mud Loss |  |  |
| Safety Notes | No accidents, No incidents or Environmental issues |  |

|  |                                     |              |
|--|-------------------------------------|--------------|
|  | <b>Present Operation @ 0600 Hrs</b> |              |
|  |                                     |              |
|  |                                     |              |
| IM,Rig Manager & Crew  |                                     |              |
| as follows: Test lines to 2000psi, Pump 20bbl fresh water spacer, Lead     |                                     |              |
| 65/35/6 Class "C" cement, Tail Cement: 500sks, 117bbl,1.32YP, 14.8ppg      |                                     |              |
| fresh water, Bump Plug with 500psi over FCP of 530psi, Hole 5min &         |                                     |              |
| ' at 10:05. Circulated 145bbl =435sks to surface                           |                                     |              |
| 20"casing, remove turn buckles on conductor & dresser sleeve, RU transfer  |                                     |              |
| er lines   |                                     |              |
| menting head,Cut 20" casing & lift, Rough cut 13.375 casing & remove,      |                                     |              |
| 75 casing (37¼" below GL) Weld on 13-5/8"X3000# Casing head assy.          |                                     |              |
|  |                                     |              |
| a. Install spool and dsa onto well head. Work on seized up bolts and pins. |                                     |              |
| e and manifold.  |                                     |              |
| or. Open doors on rams .Work with welder on breaking lose stems on bops.   |                                     |              |
|  |                                     |              |
|  |                                     |              |
|  |                                     |              |
|  |                                     |              |
| Received   | 7,135                               | Diesel Total |



|  |  |  |                |
|--|--|--|----------------|
|  |  | ROP                                      |                |
|  |  | WOB                                      |                |
|  |  | Rot RPM                                  |                |
|  |  | TFA                                      |                |
|  |  | MM RPM                                   |                |
|  |  | Torque                                   |                |
|  |  | Grade                                    |                |
|  |  | <i>Pump &amp; Hydraulics Information</i> |                |
|  |  | COMBO                                    | <i>Pump #1</i> |
|  |  | Type                                     | BSF            |
|  |  | Liner                                    | 6              |
|  |  | Stroke                                   | 12             |
|  |  | SPM                                      | 85             |
|  |  | %Eff                                     | 95             |
|  |  | Gal/Strk                                 | 0.10           |
|  |  | Bbl/Strk                                 | 4.1000         |
|  |  | Gal/Min                                  | 680.00         |
|  |  | Pressure                                 | 974            |
|  |  | AV DP                                    |                |
|  |  | AV DC                                    |                |

[illegible]

|                |
|----------------|
| 21             |
| 40             |
| 80             |
| 1.75000        |
|                |
| 7              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 85             |
| 95             |
| 0.10           |
| 4.1000         |
| 680.00         |
| 974            |
|                |
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|         |  |
| BHA Hrs |  |
| Muc     |  |
| Bg Gas  |  |
| Con Gas |  |
| Tr Gas  |  |
| MAX     |  |
| Est PP  |  |
| ECD     |  |
|         |  |
| %Shale  |  |
| %Sand   |  |
| %Lime   |  |
| %Other  |  |
| DEPTH   |  |

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|                        |           |                     |
|------------------------|-----------|---------------------|
|                        |           | Total BHA           |
| <i>Log Information</i> |           | <i>BOP Test</i>     |
|                        | Last Test |                     |
|                        | Next Test |                     |
|                        | Test PSI  |                     |
|                        |           | <i>Safety Topic</i> |
|                        |           | Making Conn.        |
|                        |           | <i>Accident</i>     |
| <i>Lithology</i>       |           | NONE                |
|                        |           | <i>Personnel</i>    |
|                        |           | Contractor          |
|                        |           | Service Co          |
|                        |           | Co-Rep              |
|                        |           | Totals              |



[illegible]

| From        | To    | Hrs. |   |
|-------------|-------|------|---|
| 06:00       | 18:00 | 12.0 | Nipple-up BOP: Replace ram rubbers in T3        |
|             |       |      | ram set on stack, Install Annular, Install RC   |
| 18:00       | 19:30 | 1.5  | Nippleupbop, change out bad hydraulic line      |
|             |       |      | and center bop.                                 |
| 19:30       | 20:30 | 1.0  | Rig up v-door, r/d rig up lines. l/d casing toc |
| 20:30       |       |      | S/M with yellowjacket test crew, make up te     |
|             |       |      | ,kill line, blinds and choke manifold to 250p   |
|             | 02:00 | 5.5  | gap, drillers side hydraulic piston sounds lik  |
| 02:00       | 06:00 | 4    | Rig Repair, Repair hydraulic piston on blind    |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
| Total Hours |       | 24.0 | Diesel R  |

| <i>MD</i>       | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------------|--------------|----------------|
| 320             | 0.51         | 14.2           |
| 837             | 0.91°        |                |
| 1307            | 1.83         |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
| <b>Current</b>  |              |                |
| REPORT # TIME   |              |                |
| Date            |              |                |
| Temperature     |              |                |
| TVD             |              |                |
| Weight          | 9.7          |                |
| Viscosity       | 28           |                |
| PV              |              |                |
| YP              |              |                |
| Gels            |              |                |
| Filtrate 30 min |              |                |



|              |  |  |
|--------------|--|--|
| HTHP         |  |  |
| Cake         |  |  |
| %Solids      |  |  |
| %Oil         |  |  |
| %Water       |  |  |
| %Sand        |  |  |
| PH           |  |  |
| MBT          |  |  |
| Pm           |  |  |
| Pf           |  |  |
| Mf           |  |  |
| Chloride     |  |  |
|              |  |  |
| Calcium      |  |  |
| 600 RPM      |  |  |
| 300 RPM      |  |  |
| %LGS         |  |  |
| System bbls  |  |  |
| Mud Loss     |  |  |
| Cum Mud Loss |  |  |
| Safety Notes | No accidents, No incidents or Environmental issues |  |



|  |  |  |                |
|--|--|--|----------------|
|  |  | ROP                                      |                |
|  |  | WOB                                      |                |
|  |  | Rot RPM                                  |                |
|  |  | TFA                                      |                |
|  |  | MM RPM                                   |                |
|  |  | Torque                                   |                |
|  |  | Grade                                    |                |
|  |  | <i>Pump &amp; Hydraulics Information</i> |                |
|  |  | COMBO                                    | <i>Pump #1</i> |
|  |  | Type                                     | BSF            |
|  |  | Liner                                    | 6              |
|  |  | Stroke                                   | 12             |
|  |  | SPM                                      | 85             |
|  |  | %Eff                                     | 95             |
|  |  | Gal/Strk                                 | 0.10           |
|  |  | Bbl/Strk                                 | 4.1000         |
|  |  | Gal/Min                                  | 680.00         |
|  |  | Pressure                                 | 974            |
|  |  | AV DP                                    |                |
|  |  | AV DC                                    |                |

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|                |
|----------------|
| 21             |
| 40             |
| 80             |
| 1.75000        |
|                |
| 7              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 85             |
| 95             |
| 0.10           |
| 4.1000         |
| 680.00         |
| 974            |
|                |
|                |
|                |

|         |  |
|---------|--|
|         |  |
|         |  |
|         |  |
|         |  |
|         |  |
|         |  |
| BHA Hrs |  |
| Muc     |  |
| Bg Gas  |  |
| Con Gas |  |
| Tr Gas  |  |
| MAX     |  |
| Est PP  |  |
| ECD     |  |
|         |  |
| %Shale  |  |
| %Sand   |  |
| %Lime   |  |
| %Other  |  |
| DEPTH   |  |



|                 |  |  |  |              |  |  |
|-----------------|--|--|--|--------------|--|--|
|                 |  |  |  |              |  |  |
|                 |  |  |  |              |  |  |
|                 |  |  |  |              |  |  |
|                 |  |  |  |              |  |  |
|                 |  |  |  |              |  |  |
|                 |  |  |  |              |  |  |
|                 |  |  |  | Total BHA    |  |  |
| Log Information |  |  |  | BOP Test     |  |  |
|                 |  |  |  | Last Test    |  |  |
|                 |  |  |  | Next Test    |  |  |
|                 |  |  |  | Test PSI     |  |  |
|                 |  |  |  | Safety Topic |  |  |
|                 |  |  |  | Making Conn. |  |  |
|                 |  |  |  | Accident     |  |  |
| Lithology       |  |  |  | NONE         |  |  |
|                 |  |  |  | Personnel    |  |  |
|                 |  |  |  | Contractor   |  |  |
|                 |  |  |  | Service Co   |  |  |
|                 |  |  |  | Co-Rep       |  |  |
|                 |  |  |  | Totals       |  |  |

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| From        | To    | Hrs. |   |
|-------------|-------|------|---|
| 06:00       |       |      | Rig Repair: Blind rams fail function test, J&   |
|             |       |      | on off drillers side, Assemble BOP door & f     |
|             | 18:00 | 12.0 | Test BOP, Blind rams: 250 low / 5000 high,      |
| 18:00       | 18:30 | 0.5  | Perform accumulator test with testers.good      |
| 18:30       | 19:00 | 0.5  | Rig service                                     |
| 19:00       | 22:30 | 3.5  | PJSM with directional crew, p/u directional t   |
| 22:30       | 23:30 | 1    | Test mwd and make up bit.                       |
| 23:30       | 00:30 | 1    | Rig repair change out top drivelink tilt cylinc |
| 00:30       | 03:00 | 2.5  | L/D 3- 6.5" dc's from derrick. TIH w/direction  |
| 3:00        | 03:30 | 0.5  | Fill pipe, establish circulation, perform cho   |
| 3:30        | 4:00  | 0.5  | Casing test to 750 psi with rig pump. Good      |
| 04:00       | 04:30 | 0.5  | Install rotating head.                          |
| 04:30       | 06:00 | 1.5  | Tag cement @1,440' drill cement, tag float      |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
| Total Hours |       | 24.0 | Diesel R  |

| <i>MD</i>       | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------------|--------------|----------------|
| 320             | 0.51         | 14.2           |
| 837             | 0.91°        |                |
| 1307            | 1.83         |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
|                 |              |                |
| <b>Current</b>  |              |                |
| REPORT # TIME   |              |                |
| Date            |              |                |
| Temperature     |              |                |
| TVD             |              |                |
| Weight          | 9.7          |                |
| Viscosity       | 28           |                |
| PV              |              |                |
| YP              |              |                |
| Gels            |              |                |
| Filtrate 30 min |              |                |

|              |  |  |
|--------------|--|--|
| HTHP         |  |  |
| Cake         |  |  |
| %Solids      |  |  |
| %Oil         |  |  |
| %Water       |  |  |
| %Sand        |  |  |
| PH           |  |  |
| MBT          |  |  |
| Pm           |  |  |
| Pf           |  |  |
| Mf           |  |  |
| Chloride     |  |  |
|              |  |  |
| Calcium      |  |  |
| 600 RPM      |  |  |
| 300 RPM      |  |  |
| %LGS         |  |  |
| System bbls  |  |  |
| Mud Loss     |  |  |
| Cum Mud Loss |  |  |
| Safety Notes | No accidents, No incidents or Environmental issues |  |

|   |                                     |              |
|---|-------------------------------------|--------------|
|   | <i>Present Operation @ 0600 Hrs</i> |              |
| W BOP Technician on location at 10:20, Tec replaced seal on ram piston  |                                     |              |
| unction test (no good) Disassemble drillers side & replace piston seals |                                     |              |
| test  |                                     |              |
| tools and bha.  |                                     |              |
| ler.  |                                     |              |
| nal tools, p/u jar T/1450'  |                                     |              |
| ke drill  |                                     |              |
| test  |                                     |              |
| collar @1,459'. Cont to drill out cement. t/1465'                       |                                     |              |
|   |                                     |              |
|   |                                     |              |
|   |                                     |              |
|   |                                     |              |
| Received  | 7,135                               | Diesel Total |

|  |  |  |                |
|--|--|--|----------------|
|  |  | ROP                                      |                |
|  |  | WOB                                      |                |
|  |  | Rot RPM                                  |                |
|  |  | TFA                                      | 1.72000        |
|  |  | MM RPM                                   |                |
|  |  | Torque                                   |                |
|  |  | Grade                                    |                |
|  |  | <i>Pump &amp; Hydraulics Information</i> |                |
|  |  | COMBO                                    | <i>Pump #1</i> |
|  |  | Type                                     | BSF            |
|  |  | Liner                                    | 6              |
|  |  | Stroke                                   | 12             |
|  |  | SPM                                      | 85             |
|  |  | %Eff                                     | 95             |
|  |  | Gal/Strk                                 | 0.10           |
|  |  | Bbl/Strk                                 | 4.1000         |
|  |  | Gal/Min                                  | 680.00         |
|  |  | Pressure                                 | 974            |
|  |  | AV DP                                    |                |
|  |  | AV DC                                    |                |

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|                |
|----------------|
| 21             |
| 40             |
| 80             |
| 1.75000        |
|                |
| 7              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 85             |
| 95             |
| 0.10           |
| 4.1000         |
| 680.00         |
| 974            |
|                |
|                |
|                |

|         |      |
|---------|------|
| 1       | xo   |
| 5       | hwdp |
| 1       | jar  |
| 12      | hwdp |
|         |      |
|         |      |
| BHA Hrs |      |
| Muc     |      |
| Bg Gas  |      |
| Con Gas |      |
| Tr Gas  |      |
| MAX     |      |
| Est PP  |      |
| ECD     |      |
|         |      |
| %Shale  |      |
| %Sand   |      |
| %Lime   |      |
| %Other  |      |
| DEPTH   |      |

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|                 |     |      |  |              |          |  |
|-----------------|-----|------|--|--------------|----------|--|
|                 | 6.5 |      |  |              | 4 1/2 if |  |
|                 | 5   | 3    |  | 4 1/2if      |          |  |
|                 | 6.5 | 2.75 |  | 4 1/2 if     |          |  |
|                 | 5   | 3    |  |              | 4 1/2if  |  |
|                 |     |      |  |              |          |  |
|                 |     |      |  |              |          |  |
|                 |     |      |  | Total BHA    |          |  |
| Log Information |     |      |  | BOP Test     |          |  |
|                 |     |      |  | Last Test    |          |  |
|                 |     |      |  | Next Test    |          |  |
|                 |     |      |  | Test PSI     |          |  |
|                 |     |      |  | Safety Topic |          |  |
|                 |     |      |  | Making Conn. |          |  |
|                 |     |      |  | Accident     |          |  |
| Lithology       |     |      |  | NONE         |          |  |
|                 |     |      |  | Personnel    |          |  |
|                 |     |      |  | Contractor   |          |  |
|                 |     |      |  | Service Co   |          |  |
|                 |     |      |  | Co-Rep       |          |  |
|                 |     |      |  | Totals       |          |  |

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**Daily Activity Information**

| From        | To    | Hrs. |  |
|-------------|-------|------|--|
| 06:00       | 06:30 | 0.5  | Drlg Cement: F/ 1465 - T/1507, RPM:dhm 68    |
| 06:30       | 07:00 | 0.5  | Drlg Actual: F/1507 - T/1513, RPM:dhm 68-    |
| 07:00       | 07:30 | 0.5  | Circulate btms up 2000stks, Preform FIT te   |
| 07:30       |       |      | Drlg Actual: F/1513 - T/1615,102'=22fph, R   |
|             | 12:00 | 4.5  | 30k bw,4-3k torq                             |
| 12:00       | 12:30 | 0.5  | Rig Service                                  |
| 12:30       | 14:00 | 1.5  | Rig repair: traction motor out on #1 pump, # |
| 14:00       |       |      | Drlg Actual: F/1615 - T/1629,'14'=28fph, RF  |
|             | 14:30 | 0.5  | 30k bw,4-3k torq                             |
| 14:30       |       | 0.5  | Slide Drlg Actual: F1629/ - T/1639,10'=22fp  |
|             | 15:00 |      | 30k bw,4-3k torq                             |
| 15:00       | 18:00 | 3.0  | Drlg Actual: F/1639 - T/1720,'14'=28fph, RF  |
| 18:00       | 18:30 | 0.5  | Rig service                                  |
| 18:30       | 24:00 | 5.5  | Drlg Actual F/1720' T/1995' = 50 fph, rpm=1  |
| 24:00       | 06:00 | 6.0  | Drlg Actual F/1995' T/2345' = 58 fph, rpm=1  |
|             |       |      |  |
|             |       |      |  |
|             |       |      | ISSUES: AUTOMATIC DRILLER STACKIN            |
|             |       |      | REACHES DRILL STALL TORQ.                    |
| Total Hours |       | 24.0 | Diesel R                                     |

**Directional Survey Information**

| MD              | ANGLE    | Azimuth |
|-----------------|----------|---------|
| 1549            | 1.06     | 353.02  |
| 1644            | .53      | 337.55  |
| 1739            | 0.44     | 271.9   |
| 1833            | 0.35     | 295.89  |
| 1928            | 0.44     | 282.18  |
| 2023            | 0.44     | 289.65  |
| 2117            | 0.44     | 284.12  |
| 2212            | .53      | 298.09  |
|                 |          |         |
|                 |          |         |
| Current         |          |         |
| REPORT # TIME   | 10:30    |         |
| Date            | 4/4/2017 |         |
| Temperature     |          |         |
| TVD             | 1507     |         |
| Weight          | 9.1      |         |
| Viscosity       | 28       |         |
| PV              | 1        |         |
| YP              | 1        |         |
| Gels            | 1        | 1       |
| Filtrate 30 min |          |         |

|              |  |  |
|--------------|--|--|
| HTHP         |  |  |
| Cake         |  |  |
| %Solids      | 1  |  |
| %Oil         |  |  |
| %Water       | 99   |  |
| %Sand        |  |  |
| PH           | 7  |  |
| MBT          |  |  |
| Pm           |  |  |
| Pf           |  |  |
| Mf           |  |  |
| Chloride     | 120000   |  |
|              |  |  |
| Calcium      |  |  |
| 600 RPM      |  |  |
| 300 RPM      |  |  |
| %LGS         |  |  |
| System bbls  |  |  |
| Mud Loss     |  |  |
| Cum Mud Loss |  |  |
| Safety Notes | No accidents, No incidents or Environmental issues |  |

|   |                                     |
|---|-------------------------------------|
|   | <b>Present Operation @ 0600 Hrs</b> |
|   |                                     |
| 38+ tds 40=108, 1400spp,200diff psi,30k bw,4-3k torq                    |                                     |
| + tds 40=108, 1400spp,200diff psi,30k bw,4-3k torq                      |                                     |
| st 110 surface psi, 9.6wt = 11.0 EMW, Good Test                         |                                     |
| PM:dhm 68+ tds 40=108, 1400 2600spp,400-700gpm,400-200diff psi,         |                                     |
|   |                                     |
|   |                                     |
| #2 pump fluctuating from 399-429gpm, PU 10' to 1605' & circulate 409gpm |                                     |
| PM:dhm 68+ tds 40=108, 1400 2600spp,700gpm,400-200diff psi,             |                                     |
|   |                                     |
| h, RPM:dhm 68+ tds 40=108, 1400 2600spp,700gpm,400-200diff psi,         |                                     |
|   |                                     |
| PM:dhm 68+ tds 40=108, 1400 2600spp,700gpm,400-200diff psi,             |                                     |
|   |                                     |
| 180 ,diff=350-450, gpm-770 pp-2750 wob-38 torq-8500                     |                                     |
| 192 ,diff=350-450, gpm-770 pp-2750 wob-38 torq-8500                     |                                     |
|   |                                     |
|   |                                     |
| <b>IG WT ON BIT, TDS ROTARY KICKS OUT ROTATION BEFORE IT</b>            |                                     |

|          |       |              |
|----------|-------|--------------|
| Received | 7,135 | Diesel Total |
|----------|-------|--------------|

| TVD     | V S   | +N / -S |
|---------|-------|---------|
| 1548.48 | 20.82 | 27.47   |
| 1643.57 | 21.72 | 28.75   |
| 1738.57 | 21.76 | 29.16   |
| 1832.56 | 21.52 | 29.3    |
| 1927.56 | 21.1  | 29.7    |
| 2022.56 | 21.1  | 29.7    |
| 2116.56 | 20.88 | 29.91   |
| 2211.55 | 20.7  | 30.21   |
|         |       |         |
|         |       |         |

| MT.       | CURRENT      |    |    |    |
|-----------|--------------|----|----|----|
| Bit No    | 3            |    |    |    |
| Size      | 12.25        |    |    |    |
| Make      | Drilformance |    |    |    |
| Serial    | 23382        |    |    |    |
| Type      | DF616X2_er01 |    |    |    |
| Nozzles   | 2x           | 18 | 4x | 20 |
| Depth Out |              |    |    |    |
| Depth In  | 1507         |    |    |    |
| Footage   | 838          |    |    |    |
| Hours     | 20           |    |    |    |

|  |  |         |
|--|--|---------|
|  | ROP                                      | 42      |
|  | WOB                                      | 40      |
|  | Rot RPM                                  | 60      |
|  | TFA                                      | 1.72000 |
|  | MM RPM                                   | 134     |
|  | Torque                                   | 8500    |
|  | Grade                                    |         |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 100     |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 0.10    |
|  | Bbl/Strk                                 | 4.1000  |
|  | Gal/Min                                  | 780.00  |
|  | Pressure                                 | 2750    |
|  | AV DP                                    |         |
|  | AV DC                                    |         |

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|                |
|----------------|
| 21             |
| 40             |
| 80             |
| 1.75000        |
|                |
| 7              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 0.10           |
| 4.1000         |
| 780.00         |
| 2750           |
|                |
|                |
|                |

|         |      |
|---------|------|
| 1       | xo   |
| 5       | hwdp |
| 1       | jar  |
| 12      | hwdp |
|         |      |
|         |      |
| BHA Hrs |      |
| Muc     |      |
| Bg Gas  |      |
| Con Gas |      |
| Tr Gas  |      |
| MAX     |      |
| Est PP  |      |
| ECD     |      |
|         |      |
| %Shale  |      |
| %Sand   |      |
| %Lime   |      |
| %Other  |      |
| DEPTH   |      |



|                 |     |      |  |              |          |  |
|-----------------|-----|------|--|--------------|----------|--|
|                 | 6.5 |      |  |              | 4 1/2 if |  |
|                 | 5   | 3    |  | 4 1/2if      |          |  |
|                 | 6.5 | 2.75 |  | 4 1/2 if     |          |  |
|                 | 5   | 3    |  |              | 4 1/2if  |  |
|                 |     |      |  |              |          |  |
|                 |     |      |  |              |          |  |
| 20              |     |      |  | Total BHA    |          |  |
| Log Information |     |      |  | BOP Test     |          |  |
|                 |     |      |  | Last Test    |          |  |
|                 |     |      |  | Next Test    |          |  |
|                 |     |      |  | Test PSI     |          |  |
|                 |     |      |  | Safety Topic |          |  |
|                 |     |      |  | Making Conn. |          |  |
|                 |     |      |  | Accident     |          |  |
| Lithology       |     |      |  | NONE         |          |  |
|                 |     |      |  | Personnel    |          |  |
|                 |     |      |  | Contractor   |          |  |
|                 |     |      |  | Service Co   |          |  |
|                 |     |      |  | Co-Rep       |          |  |
|                 |     |      |  | Totals       |          |  |

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**Daily Activity Information**

| From        | To    | Hrs. |   |
|-------------|-------|------|---|
| 06:00       |       |      | Drlg Actual: F/2345 - T/2704,359'=55fph, R  |
|             | 12:30 | 6.5  | 45-47k bw                                   |
| 12:30       | 13:00 | 0.5  | Rig Service                                 |
| 13:00       | 13:30 | 0.5  | Rig Repair: Replace swab on #2 pump, Pul    |
| 13:30       |       |      | Drlg Actual: F/2704 - T/2742,38'=76fph,RPI  |
|             | 14:00 | 0.5  | 45-47k bw                                   |
| 14:00       | 15:30 | 1.5  | Rig Repair: Replace valves on #1 & #2 pum   |
| 15:30       | 18:00 | 2.5  | Drlg Actual: F/2742 - T/2880',138'=55fph,RI |
|             |       |      | 45-47k bw                                   |
| 18:00       | 18:30 | 0.5  | Rig service                                 |
| 18:30       |       |      | Drlg Actual F/2880' T/3800' ,920'=80fph, RF |
|             | 06:00 | 11.5 | WOB-40-44.                                  |
|             |       |      |   |
|             |       |      |   |
|             |       |      | SPR: 3691, #1 PUMP = 30spm = 250psi, #      |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
|             |       |      |   |
| Total Hours |       | 24.0 | Diesel R                                    |

**Directional Survey Information**

| MD              | ANGLE    | Azimuth |
|-----------------|----------|---------|
| 2307            | 0.53     | 292.03  |
| 2401            | 0.53     | 295.37  |
| 2495            | 0.53     | 300.46  |
| 2685            | 0.79     | 297.65  |
| 2781            | .88      | 305.74  |
| 2875            | 1.06     | 305.83  |
| 2970            | .97      | 307.76  |
| 3256            | 1.49     | 309.87  |
| 3634            | 1.41     | 303.63  |
|                 |          |         |
| Current         |          |         |
| REPORT # TIME   | 10:30    |         |
| Date            | 4/5/2017 |         |
| Temperature     | 78       |         |
| TVD             | 2570     |         |
| Weight          | 9.1+     |         |
| Viscosity       | 29       |         |
| PV              | 1        |         |
| YP              | 1        |         |
| Gels            | 1        | 1       |
| Filtrate 30 min |          |         |

|              |  |  |
|--------------|--|--|
| HTHP         |  |  |
| Cake         |  |  |
| %Solids      | .6   |  |
| %Oil         |  |  |
| %Water       | 99   |  |
| %Sand        |  |  |
| PH           | 12   |  |
| MBT          |  |  |
| Pm           |  |  |
| Pf           |  |  |
| Mf           |  |  |
| Chloride     | 86000  |  |
|              |  |  |
| Calcium      | 920  |  |
| 600 RPM      |  |  |
| 300 RPM      |  |  |
| %LGS         |  |  |
| System bbls  |  |  |
| Mud Loss     |  |  |
| Cum Mud Loss |  |  |
| Safety Notes | No accidents, No incidents or Environmental issues |  |

|   |  |                              |              |              |    |    |
|---|--|------------------------------|--------------|--------------|----|----|
|   |  | Present Operation @ 0600 Hrs |              |              |    |    |
|   |  |                              |              |              |    |    |
| PM:dhm 119+ tds 60=179,3100spp,700gpm,620-550diff psi,9-8k torq.    |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
| l back to 2644', circulate at 109spm-449gpm-800spp, Rot:10TDS+76dhm |  |                              |              |              |    |    |
| M:119dhm + 60tds =179,3100spp,700gpm,620-550diff psi,9-8k torq.     |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
| 1ps, Pull back to 2645', circulate at 109spm-449gpm-800spp          |  |                              |              |              |    |    |
| PM:119dhm + 60tds =179,3100spp,700gpm,620-550diff psi,9-8k torq.    |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
| PM-133 +60 TDS=193, 3150 PP, 770 GPM, 450-550 DIFF,10K-TORQ         |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
| 2 PUMP= 30SPM = 240psi  |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
| Received  |  | 7,200                        |              | Diesel Total |    |    |
|   |  |                              |              |              |    |    |
|   |  |                              |              |              |    |    |
| TVD   |  | V S                          |              | +N / -S      |    |    |
| 2,306.55  |  | 20.55                        |              |              |    |    |
| 2400.54   |  | 20.38                        |              |              |    |    |
| 2494.54   |  | 20.28                        |              |              |    |    |
| 2684.53   |  | 20.18                        |              |              |    |    |
| 2870.52   |  | 20.11                        |              |              |    |    |
| 2874.5  |  | 20.14                        |              |              |    |    |
| 2969.49   |  | 20.2                         |              |              |    |    |
| 3255.43   |  | 20.38                        |              |              |    |    |
| 3633.32   |  | 20.59                        |              |              |    |    |
|   |  |                              |              |              |    |    |
|   |  | MT.                          | CURRENT      |              |    |    |
|   |  | Bit No                       | 3            |              |    |    |
|   |  | Size                         | 12.25        |              |    |    |
|   |  | Make                         | Drilformance |              |    |    |
|   |  | Serial                       | 23382        |              |    |    |
|   |  | Type                         | DF616X2_er01 |              |    |    |
|   |  | Nozzles                      | 2x           | 18           | 4x | 20 |
|   |  | Depth Out                    |              |              |    |    |
|   |  | Depth In                     | 1507         |              |    |    |
|   |  | Footage                      | 838          |              |    |    |
|   |  | Hours                        | 20           |              |    |    |



|  |  |         |
|--|--|---------|
|  | ROP                                      | 42      |
|  | WOB                                      | 40      |
|  | Rot RPM                                  | 60      |
|  | TFA                                      | 1.72000 |
|  | MM RPM                                   | 134     |
|  | Torque                                   | 8500    |
|  | Grade                                    |         |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 100     |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 0.10    |
|  | Bbl/Strk                                 | 4.1000  |
|  | Gal/Min                                  | 780.00  |
|  | Pressure                                 | 3100    |
|  | AV DP                                    |         |
|  | AV DC                                    |         |

[illegible]

|                |
|----------------|
| 21             |
| 40             |
| 80             |
| 1.75000        |
|                |
| 7              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 0.10           |
| 4.1000         |
| 780.00         |
| 3100           |
|                |
|                |
|                |

|         |      |
|---------|------|
| 1       | xo   |
| 5       | hwdp |
| 1       | jar  |
| 12      | hwdp |
|         |      |
|         |      |
| BHA Hrs |      |
| Muc     |      |
| Bg Gas  |      |
| Con Gas |      |
| Tr Gas  |      |
| MAX     |      |
| Est PP  |      |
| ECD     |      |
|         |      |
| %Shale  |      |
| %Sand   |      |
| %Lime   |      |
| %Other  |      |
| DEPTH   |      |

---



|                 |     |      |  |              |          |  |
|-----------------|-----|------|--|--------------|----------|--|
|                 | 6.5 |      |  |              | 4 1/2 if |  |
|                 | 5   | 3    |  |              | 4 1/2if  |  |
|                 | 6.5 | 2.75 |  |              | 4 1/2 if |  |
|                 | 5   | 3    |  |              | 4 1/2if  |  |
|                 |     |      |  |              |          |  |
|                 |     |      |  |              |          |  |
| 41.5            |     |      |  | Total BHA    |          |  |
| Log Information |     |      |  | BOP Test     |          |  |
| 29-Sep          |     |      |  | Last Test    |          |  |
| 726             |     |      |  | Next Test    |          |  |
| n/a             |     |      |  | Test PSI     |          |  |
| 1489            |     |      |  | Safety Topic |          |  |
|                 |     |      |  | forklift     |          |  |
|                 |     |      |  | Accident     |          |  |
|                 |     |      |  | NONE         |          |  |
| Lithology       |     |      |  | Personnel    |          |  |
|                 |     |      |  | Contractor   |          |  |
|                 |     |      |  | Service Co   |          |  |
| 20% anhy,80%dol |     |      |  | Co-Rep       |          |  |
| 3660'           |     |      |  | Totals       |          |  |



|                 |
|-----------------|
| 2.74            |
| 153.61          |
| 29.00           |
| 366.52          |
|                 |
|                 |
| <b>1,039.31</b> |
|                 |
| 4/5/2017        |
| 4/26/2017       |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 8               |
| 2               |
| 22              |
|                 |
|                 |

**Daily Activity Information**

| From        | To    | Hrs. |  |
|-------------|-------|------|--|
| 06:00       | 07:45 | 1.75 | Drlg Actual: F/3800 - T/3903,'=58fph,RPM:'   |
| 07:45       |       |      | Slide Drlg Actual: F/3903 - T/3919,16'=12fp  |
|             | 09:00 | 1.25 | 23-28k bw                                    |
| 09:00       | 10:30 | 1.50 | Drlg Actual: F/3919 - T/3993,74'=fph,RPM:'   |
| 10:30       |       |      | Slide Drlg Actual: F/3993 - T/4013,20'=20fp  |
|             | 11:30 | 1.00 | 23-28k bw                                    |
| 11:30       | 13:45 | 2.25 | Drlg Actual: F/4013 -T/4164',151'=60fph,RP   |
| 13:45       | 14:15 | 0.50 | Rig Services                                 |
| 14:15       | 18:00 | 3.75 | Drlg Actual:F/4164 - T/4418',254'=68fph,RP   |
| 18:00       | 23:00 | 5.00 | Drlg Actual:F/4418' - T/4852',434'=86fph,RF  |
| 23:00       | 23:30 | 0.50 | Rig Services                                 |
| 23:30       | 02:30 | 3.00 | Drlg Actual :F/4,852' T/5046' ,194'=65fph,R  |
| 02:30       | 06:00 | 3.50 | Rig repair circ, change out swab in #1 and # |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
|             |       |      | SPR:4924'#1PUMP=30spm=210 #2PUMP=            |
|             |       |      |  |
|             |       |      |  |
| Total Hours |       | 24.0 | Diesel R                                     |

**Directional Survey Information**

| MD              | ANGLE    | Azimuth |
|-----------------|----------|---------|
| 3823            | 1.41     | 303.45  |
| 4013            | 0.79     | 122.49  |
| 4107            | 1.32     | 104.64  |
| 4298            | 1.23     | 132.68  |
| 4488            | 1.23     | 121.09  |
| 4678            | 1.06     | 122.66  |
| 4962            | 1.06     | 140.85  |
|                 |          |         |
|                 |          |         |
|                 |          |         |
| Current         |          |         |
| REPORT # TIME   | 10:30    |         |
| Date            | 4/8/2017 |         |
| Temperature     | 78       |         |
| TVD             | 2570     |         |
| Weight          | 9.1+     |         |
| Viscosity       | 27       |         |
| PV              | 1        |         |
| YP              | 1        |         |
| Gels            | 1        | 1       |
| Filtrate 30 min |          |         |



|              |   |  |
|--------------|---|--|
| HTHP         |   |  |
| Cake         |   |  |
| %Solids      | .6  |  |
| %Oil         |   |  |
| %Water       | 99  |  |
| %Sand        |   |  |
| PH           | 10  |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 58000   |  |
|              |   |  |
| Calcium      | 800   |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>CURRENT FORMATION: BRUSHY CANYON |  |

|   |                                     |              |
|---|-------------------------------------|--------------|
|   | <b>Present Operation @ 0600 Hrs</b> |              |
| 136dhm + 60tds =196,3100spp,800gpm,620-550diff psi,9-8k torq.47k bw |                                     |              |
| h, RPM:136dhm 68+ tds 0=136, 1400 2825spp,800gpm,150-100diff psi,   |                                     |              |
| eld BOP Drill: 1min ready for pressure                              |                                     |              |
| 136dhm + 60tds =196,3100spp,800gpm,620-550diff psi,9-8k torq.47k bw |                                     |              |
| h, RPM:136dhm 68+ tds 0=136, 1400 2825spp,800gpm,150-100diff psi,   |                                     |              |
| M:136dhm + 60tds =196,3100spp,800gpm,620-550diff psi,9-8k torq.47bw |                                     |              |
| M:136dhm+60tds =196,3100spp,800gpm,620-550diff psi,9-8k torq.47bw   |                                     |              |
| M:136dhm+60tds =196,3100spp,800gpm,620-550diff psi,9-8k torq.47bw   |                                     |              |
| PM-136dhm+60tds=196,3050pp,800gpm,450-600 diff, 10ktorq 45wob       |                                     |              |
| #2 pump.  |                                     |              |
| =30 spm=180 psi, reading on expro panel.                            |                                     |              |
| Received  | 0                                   | Diesel Total |

|  |  |         |
|--|--|---------|
|  | ROP                                      | 42      |
|  | WOB                                      | 40      |
|  | Rot RPM                                  | 60      |
|  | TFA                                      | 1.72000 |
|  | MM RPM                                   | 134     |
|  | Torque                                   | 8500    |
|  | Grade                                    |         |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 100     |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 0.10    |
|  | Bbl/Strk                                 | 4.1000  |
|  | Gal/Min                                  | 780.00  |
|  | Pressure                                 | 3200    |
|  | AV DP                                    |         |
|  | AV DC                                    |         |

[illegible]

|                |
|----------------|
| 21             |
| 40             |
| 80             |
| 1.75000        |
|                |
| 7              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 0.10           |
| 4.1000         |
| 780.00         |
| 3200           |
|                |
|                |
|                |

|         |      |
|---------|------|
| 1       | xo   |
| 5       | hwdp |
| 1       | jar  |
| 12      | hwdp |
|         |      |
|         |      |
| BHA Hrs |      |
| Muc     |      |
| Bg Gas  |      |
| Con Gas |      |
| Tr Gas  |      |
| MAX     |      |
| Est PP  |      |
| ECD     |      |
|         |      |
| %Shale  |      |
| %Sand   |      |
| %Lime   |      |
| %Other  |      |
| DEPTH   |      |



|                 |     |      |  |              |          |  |
|-----------------|-----|------|--|--------------|----------|--|
|                 | 6.5 |      |  |              | 4 1/2 if |  |
|                 | 5   | 3    |  |              | 4 1/2if  |  |
|                 | 6.5 | 2.75 |  |              | 4 1/2 if |  |
|                 | 5   | 3    |  |              | 4 1/2if  |  |
|                 |     |      |  |              |          |  |
|                 |     |      |  |              |          |  |
| 41.5            |     |      |  | Total BHA    |          |  |
| Log Information |     |      |  | BOP Test     |          |  |
| 290.00          |     |      |  | Last Test    |          |  |
| 903             |     |      |  | Next Test    |          |  |
| n/a             |     |      |  | Test PSI     |          |  |
| 1224            |     |      |  | Safety Topic |          |  |
|                 |     |      |  | H2S          |          |  |
|                 |     |      |  | Accident     |          |  |
|                 |     |      |  | NONE         |          |  |
| Lithology       |     |      |  | Personnel    |          |  |
| 20%             |     |      |  | Contractor   |          |  |
| 80%             |     |      |  | Service Co   |          |  |
|                 |     |      |  | Co-Rep       |          |  |
| 5046'           |     |      |  | Totals       |          |  |





|           |
|-----------|
| 2.74      |
| 153.61    |
| 29.00     |
| 366.52    |
|           |
|           |
| 1,039.31  |
|           |
| 4/5/2017  |
| 4/26/2017 |
| 5000      |
|           |
|           |
|           |
|           |
|           |
| 11        |
| 5         |
| 2         |
| 18        |
|           |
|           |

### Daily Activity Information

| From        | To    | Hrs. |  |
|-------------|-------|------|--|
| 06:00       | 07:15 | 1.25 | Rig repair circ, change out swab in #1 and   |
| 07:15       | 09:45 | 2.50 | Drlg Actual :F/5046' T/5176' ,130'=52fph,RF  |
| 09:45       | 10:15 | 0.50 | Rig repair circ, change out cap gaskett #2 & |
| 10:15       | 11:00 | 0.75 | Drlg Actual :F/5176' T/5226' ,50', 66fph,RP  |
| 11:00       | 13:00 | 2.00 | Rig repair circ, Weld up & reface valve gasl |
| 13:00       | 16:00 | 3.00 | Drlg Actual :F/5226' T/5397' ,171',57fph,RP  |
| 16:00       | 16:30 | 0.50 | Topdrive service                             |
| 16:30       | 17:30 | 1.00 | Drlg Actual : F/5397' T/5440', 43', 43FPH,rp |
| 17:30       | 18:00 | 0.50 | Rig repair, work on #1 pump. Traction moto   |
| 18:00       | 18:30 | 0.50 | Rig service                                  |
| 18:30       | 21:00 | 2.50 | Drlg Actual: F/5440' T/5576', 136', 55 FPH,' |
| 21:00       | 22:30 | 1.50 | Rig repair workon #1 pump traction motor, l  |
| 22:30       | 06:00 | 7.50 | Drlg Actual F/5576' T/5963' ,387', 51 FPH,1  |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
|             |       |      |  |
| Total Hours |       | 24.0 | Diesel R                                     |

### Directional Survey Information

| MD              | ANGLE    | Azimuth |
|-----------------|----------|---------|
| 3823            | 1.41     | 303.45  |
| 4013            | 0.79     | 122.49  |
| 4107            | 1.32     | 104.64  |
| 4298            | 1.23     | 132.68  |
| 4488            | 1.23     | 121.09  |
| 4678            | 1.06     | 122.66  |
| 4962            | 1.06     | 140.85  |
| 5340            | .44      | 137.43  |
| 5719            | .26      | 280.16  |
|                 |          |         |
| Current         |          |         |
| REPORT # TIME   | 10:30    |         |
| Date            | 4/8/2017 |         |
| Temperature     | 80       |         |
| TVD             | 5226     |         |
| Weight          | 9.1+     |         |
| Viscosity       | 27       |         |
| PV              | 1        |         |
| YP              | 1        |         |
| Gels            | 1        | 1       |
| Filtrate 30 min |          |         |

|              |   |  |
|--------------|---|--|
| HTHP         |   |  |
| Cake         |   |  |
| %Solids      | .6  |  |
| %Oil         |   |  |
| %Water       | 99  |  |
| %Sand        |   |  |
| PH           | 12  |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 58000   |  |
|              |   |  |
| Calcium      | 800   |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |

|   |                                     |              |
|---|-------------------------------------|--------------|
|   | <b>Present Operation @ 0600 Hrs</b> |              |
|   |                                     |              |
| #2 pump.  |                                     |              |
| PM-136dhm+60tds=196,3050pp,800gpm,450-600 diff, 10ktorq 45wob           |                                     |              |
| k#1 MP  |                                     |              |
| VI-136dhm+60tds=196,3050pp,800gpm,450-600 diff, 10ktorq 45wob           |                                     |              |
| kett area #2&1 MP,Pull back to 5203', circulate at 109spm-449gpm-800spp |                                     |              |
| M:136dhm+60tds=196,3050pp,800gpm,450-600 diff, 10ktorq 45wob            |                                     |              |
|   |                                     |              |
| om-136dhm+60tds=196,3050pp,800gpm,450-600diff,10k torq,45wob            |                                     |              |
| or brushes.   |                                     |              |
|   |                                     |              |
| 136dhm+60tds+196,3100pp,800gpm,450-550diff,10ktorq,45 wob               |                                     |              |
| brushes bad and replaced same.  |                                     |              |
| 36dhm+60tds+196,3100pp,800gpm,450-550diff,10ktorq,45 wob                |                                     |              |
|   |                                     |              |
|   |                                     |              |
|   |                                     |              |
|   |                                     |              |
|   |                                     |              |
| Received  | 0                                   | Diesel Total |

|  |  |         |
|--|--|---------|
|  | ROP                                      | 56      |
|  | WOB                                      | 47-49   |
|  | Rot RPM                                  | 60      |
|  | TFA                                      | 1.72000 |
|  | MM RPM                                   | 134     |
|  | Torque                                   | 8-10k   |
|  | Grade                                    |         |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 100     |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 0.10    |
|  | Bbl/Strk                                 | 4.1000  |
|  | Gal/Min                                  | 780.00  |
|  | Pressure                                 | 3200    |
|  | AV DP                                    |         |
|  | AV DC                                    |         |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.

[illegible]

|                |
|----------------|
| 21             |
| 40             |
| 80             |
| 1.75000        |
|                |
| 7              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 0.10           |
| 4.1000         |
| 780.00         |
| 3200           |
|                |
|                |
|                |

|         |      |
|---------|------|
| 1       | xo   |
| 5       | hwdp |
| 1       | jar  |
| 12      | hwdp |
|         |      |
|         |      |
| BHA Hrs |      |
| Muc     |      |
| Bg Gas  |      |
| Con Gas |      |
| Tr Gas  |      |
| MAX     |      |
| Est PP  |      |
| ECD     |      |
|         |      |
| %Shale  |      |
| %Sand   |      |
| %Lime   |      |
| %Other  |      |
| DEPTH   |      |





|                 |     |      |  |              |          |  |
|-----------------|-----|------|--|--------------|----------|--|
|                 | 6.5 |      |  |              | 4 1/2 if |  |
|                 | 5   | 3    |  |              | 4 1/2if  |  |
|                 | 6.5 | 2.75 |  |              | 4 1/2 if |  |
|                 | 5   | 3    |  |              | 4 1/2if  |  |
|                 |     |      |  |              |          |  |
|                 |     |      |  |              |          |  |
| 78.25           |     |      |  | Total BHA    |          |  |
| Log Information |     |      |  | BOP Test     |          |  |
| 595u            |     |      |  | Last Test    |          |  |
| 374u            |     |      |  | Next Test    |          |  |
| n/a             |     |      |  | Test PSI     |          |  |
| 1712u           |     |      |  | Safety Topic |          |  |
|                 |     |      |  | Mud Pumps    |          |  |
|                 |     |      |  | Accident     |          |  |
|                 |     |      |  | NONE         |          |  |
| Lithology       |     |      |  | Personnel    |          |  |
| 40%             |     |      |  | Contractor   |          |  |
| XX              |     |      |  | Service Co   |          |  |
| 60%             |     |      |  | Co-Rep       |          |  |
| 5860'           |     |      |  | Totals       |          |  |



|                 |
|-----------------|
| 2.74            |
| 153.61          |
| 29.00           |
| 366.52          |
|                 |
|                 |
| <b>1,039.31</b> |
|                 |
| 4/5/2017        |
| 4/26/2017       |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 6               |
| 2               |
| 19              |
|                 |
|                 |

| From        | To    | Hrs.  |   |
|-------------|-------|-------|---|
| 06:00       | 07:30 | 1.50  | Drlg Actual F/5963'- T/6024' ,61', 51 FPH, 129 gpm, 3200pp, w/ 30bbl    |
| 07:30       | 08:30 | 1.00  | Circulate for bit & dhm XO trip, circulate at 129 gpm, 3200pp, w/ 30bbl |
| 08:30       | 14:00 | 5.50  | Trip out of hole, XO bit, dhm & mwd, proper test @ shoe                 |
| 14:00       | 17:30 | 3.50  | Make up bit, DHM & pick up new MWD, Wit                                 |
| 17:30       | 18:00 | 0.50  | Attempt to retest MWD, No pulse   |
| 18:00       | 19:00 | 1.00  | Trip out of hole to XO MWD ,pull rotating head                          |
| 19:00       | 20:30 | 1.50  | TOH F/1603' T/72'   |
| 20:30       | 22:00 | 1.50  | Change out mwd tool and test same. Good test @ shoe                     |
| 22:00       | 23:30 | 1.50  | TIH T/1513' test mwd Good test @ shoe                                   |
| 23:30       | 24:00 | 0.50  | Rig service   |
| 0:00        | 2:30  | 2.50  | Install rotating head and Tih F/1513' t/5776'                           |
| 02:30       | 03:30 | 1.00  | Wash and ream f/5776' t/6023' pump 30bbl                                |
| 03:30       | 04:30 | 1.00  | Drlg Actual F/6024' T/6070' 46', 46fph, 129 gpm, 3200pp, w/ 30bbl       |
| 04:30       | 05:30 | 1.00  | Slide F/6070' T/6085', 780 gpm, 3200pp, w/ 30bbl                        |
| 05:30       | 06:00 | 0.50  | Drlg Actual F/6085' T/6145' 60', 120fph, 129 gpm, 3200pp, w/ 30bbl      |
|             |       |       |   |
|             |       |       |   |
|             |       |       |   |
|             |       |       |   |
| Total Hours |       | 24.00 | Diesel R  |

[illegible]

|              |   |  |
|--------------|---|--|
| HTHP         |   |  |
| Cake         |   |  |
| %Solids      | .6  |  |
| %Oil         |   |  |
| %Water       | 99  |  |
| %Sand        |   |  |
| PH           | 12  |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 58000   |  |
|              |   |  |
| Calcium      | 800   |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |

|  |                                     |              |
|--|-------------------------------------|--------------|
|  | <i>Present Operation @ 0600 Hrs</i> |              |
| 36dhm+60tds+196,3100pp,800gpm,450-550diff,10ktorq,45 wob             |                                     |              |
| 194spm-807gpm-3100spp, sweep with 30bbl, 60vis gel                   |                                     |              |
| r fill, 5k max over string wt, activate Pipe & Blind rams, No Issues |                                     |              |
| ness scribe, Test MWD,Trip in hole to 1603'                          |                                     |              |
| ead.   |                                     |              |
| test.  |                                     |              |
| sweep @6023'   |                                     |              |
| dhm+60tds+189,3200pp,780 gpm,300-450 diff12torq,30 wob               |                                     |              |
| b-20   |                                     |              |
| 9 dhm+60tds+189,3200pp,780 gpm,300-450 diff12torq,40 wob             |                                     |              |
|  |                                     |              |
|  |                                     |              |
|  |                                     |              |
| Received   | 7,200                               | Diesel Total |

|  |  |         |
|--|--|---------|
|  | ROP                                      | 46      |
|  | WOB                                      | 47-49   |
|  | Rot RPM                                  | 60      |
|  | TFA                                      | 2.59900 |
|  | MM RPM                                   | 136     |
|  | Torque                                   | 8-10k   |
|  | Grade                                    |         |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 100     |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 4.10    |
|  | Bbl/Strk                                 | 0.0990  |
|  | Gal/Min                                  | 780.00  |
|  | Pressure                                 | 3200    |
|  | AV DP                                    |         |
|  | AV DC                                    |         |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.





|                |
|----------------|
| 54             |
| 47-49          |
| 60             |
| 1.72000        |
| 136            |
| 8-10k          |
|                |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 4.10           |
| 0.0990         |
| 780.00         |
| 3200           |
|                |
|                |
|                |

|         |      |
|---------|------|
| 1       | xo   |
| 5       | hwdp |
| 1       | jar  |
| 12      | hwdp |
|         |      |
|         |      |
| BHA Hrs |      |
| Muc     |      |
| Bg Gas  |      |
| Con Gas |      |
| Tr Gas  |      |
| MAX     |      |
| Est PP  |      |
| ECD     |      |
|         |      |
| %Shale  |      |
| %Sand   |      |
| %Lime   |      |
| %Other  |      |
| DEPTH   |      |



|                 |     |      |  |               |          |  |
|-----------------|-----|------|--|---------------|----------|--|
|                 | 6.5 |      |  |               | 4 1/2 if |  |
|                 | 5   | 3    |  |               | 4 1/2if  |  |
|                 | 6.5 | 2.75 |  |               | 4 1/2 if |  |
|                 | 5   | 3    |  |               | 4 1/2if  |  |
|                 |     |      |  |               |          |  |
|                 |     |      |  |               |          |  |
| 4               |     |      |  | Total BHA     |          |  |
| Log Information |     |      |  | BOP Test      |          |  |
| 16.00           |     |      |  | Last Test     |          |  |
| na              |     |      |  | Next Test     |          |  |
| na              |     |      |  | Test PSI      |          |  |
| 17              |     |      |  | Safety Topic  |          |  |
|                 |     |      |  | Tripping pipe |          |  |
|                 |     |      |  | Accident      |          |  |
|                 |     |      |  | NONE          |          |  |
| Lithology       |     |      |  | Personnel     |          |  |
| 60%             |     |      |  | Contractor    |          |  |
| 0%              |     |      |  | Service Co    |          |  |
| 40%             |     |      |  | Co-Rep        |          |  |
|                 |     |      |  |               |          |  |
| 6075            |     |      |  | Totals        |          |  |



|                 |
|-----------------|
| 2.74            |
| 153.61          |
| 29.00           |
| 366.52          |
|                 |
|                 |
| <b>1,039.30</b> |
|                 |
| 4/5/2017        |
| 4/26/2017       |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 8               |
| 2               |
| 22              |
|                 |
|                 |

**Daily Activity Information**

| From        | To    | Hrs.  |   |
|-------------|-------|-------|---|
| 06:00       | 06:30 | 0.50  | Drlg Actual F/6145' -T/6178', 33',66fph, 132  |
| 06:30       | 07:15 | 0.75  | Slide F/6178'- T/6188',15ft, 20fph, 780 gpm   |
| 07:45       | 10:00 | 2.75  | Drlg Actual F/6188' -T/6405',217ft,66fph, 132 |
| 10:00       | 11:00 | 1.00  | Rig repair, #2 pump discharge cap replacer    |
| 11:00       | 11:30 | 0.50  | Drlg Actual F/6405' -T/6425',20ft,40fph,132   |
| 11:30       | 15:00 | 3.50  | Rig repair, #1 pump XO liner,swab & liner w   |
| 15:00       | 15:30 | 0.50  | Rig service                                   |
| 15:30       | 18:00 | 2.50  | Drlg Actual F/6425' -T/6615',190ft,76fph,132  |
| 18:00       | 19:00 | 1.00  | Drlg Actual F/6615' T/6685', 70'ft 70fph,132  |
| 19:00       | 22:00 | 3.00  | Pump sweep, circ out. TD confirmed. Spot      |
| 22:00       | 0:00  | 2.00  | TOH F/6685' T/3000' no drag hole taking pr    |
| 00:00       | 00:30 | 0.50  | Rig service, work on brakes                   |
| 00:30       | 01:30 | 1.00  | TOH F/3000' T/2000' pull rotating head and    |
| 01:30       | 02:30 | 1.00  | Rig repair ,work on brakes                    |
| 02:30       | 05:00 | 2.50  | TOH F/2000' T/116' lay down all directional   |
| 05:00       | 05:30 | 0.50  | Clean rig floor ,prep to run casing,.         |
| 05:30       | 06:00 | 0.50  | Rig up casing crew.                           |
|             |       |       |   |
|             |       |       |   |
| Total Hours |       | 24.00 | Diesel R                                      |

**Directional Survey Information**

| MD              | ANGLE     | Azimuth |
|-----------------|-----------|---------|
| 5814            | 0.70      | 302.57  |
| 5909            | 0.79      | 274.62  |
| 6098            | .62       | 185.77  |
| 6286            | .44       | 114.31  |
| 6476            | .53       | 213.63  |
| 6623            | .53       | 287.72  |
|                 |           |         |
|                 |           |         |
|                 |           |         |
|                 |           |         |
| Current         |           |         |
| REPORT # TIME   | 10:30     |         |
| Date            | 4/10/2017 |         |
| Temperature     | 86        |         |
| TVD             | 6405      |         |
| Weight          | 9.2       |         |
| Viscosity       | 30        |         |
| PV              | 1         |         |
| YP              | 1         |         |
| Gels            | 1         | 1       |
| Filtrate 30 min |           |         |

|              |   |  |
|--------------|---|--|
| HTHP         |   |  |
| Cake         |   |  |
| %Solids      | 2.5   |  |
| %Oil         |   |  |
| %Water       | 99  |  |
| %Sand        |   |  |
| PH           | 9   |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 65000   |  |
|              |   |  |
| Calcium      | 920   |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |

|  |                                     |              |
|--|-------------------------------------|--------------|
|  | <i>Present Operation @ 0600 Hrs</i> |              |
| dhm+60tds+192,3200pp,780 gpm,500-600diff, 11-12torq,40 wob               |                                     |              |
| ,3200pp,wob-20, 200diff, 132dhm rpm                                      |                                     |              |
| 32 dhm+60tds+192,3200pp,780 gpm,500-600diff, 11-12torq,40 wob            |                                     |              |
| ment, Pull back to 6343' & circulate at 109spm-449gpm-800spp,30rpm-tds   |                                     |              |
| dhm+60tds+192,3200pp,780 gpm,500-600diff, 11-12torq,40 wob               |                                     |              |
| wear plate, Pull back to 6336' & circulate at 109spm-449gpm-800spp,30rpm |                                     |              |
| 2 dhm+60tds+192,3200pp,780 gpm,500-600diff, 11-12torq,40 wob             |                                     |              |
| dhm+60tds=192,3200pp,780gpm,500-600diff,112torq,40 wob                   |                                     |              |
| 50 vis pill on bottom.XXXbbl   |                                     |              |
| oper fill. No issues   |                                     |              |
| install tripnipple @2000', no drag hole taking proper fill. No issues    |                                     |              |
| tools.   |                                     |              |
|  |                                     |              |
|  |                                     |              |
|  |                                     |              |
|  |                                     |              |
| Received   | 7,200                               | Diesel Total |



|  |  |         |
|--|--|---------|
|  | ROP                                      | 60      |
|  | WOB                                      | 47-49   |
|  | Rot RPM                                  | 60      |
|  | TFA                                      | 2.59900 |
|  | MM RPM                                   | 136     |
|  | Torque                                   | 8-10k   |
|  | Grade                                    | 1/1     |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 100     |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 4.158   |
|  | Bbl/Strk                                 | 0.0990  |
|  | Gal/Min                                  | 790.00  |
|  | Pressure                                 | 3200    |
|  | AV DP                                    | 158     |
|  | AV DC                                    | 173     |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.Brake issues.



|                |
|----------------|
| 54             |
| 47-49          |
| 60             |
| 1.72000        |
| 136            |
| 8-10k          |
|                |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 4.158          |
| 0.0990         |
| 790.00         |
| 3200           |
| 158            |
| 173            |

|         |      |
|---------|------|
| 1       | xo   |
| 5       | hwdp |
| 1       | jar  |
| 12      | hwdp |
|         |      |
|         |      |
| BHA Hrs |      |
| Muc     |      |
| Bg Gas  |      |
| Con Gas |      |
| Tr Gas  |      |
| MAX     |      |
| Est PP  |      |
| ECD     |      |
|         |      |
| %Shale  |      |
| %Sand   |      |
| %Lime   |      |
| %Other  |      |
| DEPTH   |      |

[illegible]

|  |       |             |
|--|-------|-------------|
|  | 2,038 | Diesel Left |
|--|-------|-------------|

| <i>nm</i> | <i>OD</i> | <i>ID</i> |  | <i>Conn</i> |          |  |
|-----------|-----------|-----------|--|-------------|----------|--|
| it        | 12.25     | 3"        |  |             | 6 5/8reg |  |
| tor       | 12.25     | 0         |  |             | 6 5/8    |  |
| ab        | 8         | 2 7/8     |  |             | 6 5/8    |  |
| ixo       | 8         | 2 7/8     |  |             | 6 5/8    |  |
| s1        | 8         | 4.25      |  |             | 5 1/2 if |  |
| ixo       | 8         | 3         |  |             | 5 1/2 if |  |
| dc        | 8         | 3.25      |  |             | 6 5/8    |  |
| ab        | 8         | 2.75      |  |             | 6 5/8    |  |
| o         | 8         | 2.875     |  |             | 4 1/2xh  |  |
| dc        | 6.5       |           |  |             | 4 1/2 xh |  |

|                 |     |      |  |                  |          |  |
|-----------------|-----|------|--|------------------|----------|--|
|                 | 6.5 |      |  |                  | 4 1/2 if |  |
|                 | 5   | 3    |  |                  | 4 1/2if  |  |
|                 | 6.5 | 2.75 |  |                  | 4 1/2 if |  |
|                 | 5   | 3    |  |                  | 4 1/2if  |  |
|                 |     |      |  |                  |          |  |
|                 |     |      |  |                  |          |  |
| 90.25           |     |      |  | Total BHA        |          |  |
| Log Information |     |      |  | BOP Test         |          |  |
| 350.00          |     |      |  | Last Test        |          |  |
| 1355            |     |      |  | Next Test        |          |  |
| 0               |     |      |  | Test PSI         |          |  |
| 1355            |     |      |  | Safety Topic     |          |  |
|                 |     |      |  | mixing chemicals |          |  |
|                 |     |      |  | Accident         |          |  |
| Lithology       |     |      |  | NONE             |          |  |
| 10%             |     |      |  | Personnel        |          |  |
| 0%              |     |      |  | Contractor       |          |  |
| 90%             |     |      |  | Service Co       |          |  |
|                 |     |      |  | Co-Rep           |          |  |
| 6685            |     |      |  | Totals           |          |  |

[illegible]

|                       |
|-----------------------|
| <b><i>Dlg Sev</i></b> |
| 0.49                  |
| 0.39                  |
| 1.09                  |
| 0.21                  |
| 0.22                  |
| 0.38                  |
|                       |
|                       |
|                       |
|                       |
| <b><i>Length</i></b>  |
| 1.50                  |
| 30.44                 |
| 6.74                  |
| 3.54                  |
| 29.85                 |
| 3.07                  |
| 30.54                 |
| 7.41                  |
| 3.52                  |
| 370.82                |

|                 |
|-----------------|
| 2.74            |
| 153.61          |
| 29.00           |
| 366.52          |
|                 |
|                 |
| <b>1,039.30</b> |
|                 |
| 4/5/2017        |
| 4/26/2017       |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 6               |
| 2               |
| 22              |
|                 |
|                 |

| From        | To    | Hrs.  |  |
|-------------|-------|-------|--|
| 06:00       | 06:30 | 0.50  | Rig up casing crew                             |
| 06:30       | 07:00 | 0.50  | Safety meeting with casing crew (butche's)     |
| 07:00       |       |       | Run ,9.625 casing,40#, HCL-80, BTC casing      |
|             | 12:30 | 5.50  | Fill casing at 1039. 2378                      |
| 12:30       | 13:00 | 0.50  | Rig service                                    |
| 13:00       |       |       | Run ,9.625 casing 40#, HCL-80, BTC casing      |
|             |       |       | H2S alarm sounded at 40ppm, shut in well,      |
|             |       |       | building 10.0#,60bbl cap & repair return line  |
|             | 15:00 | 2.00  | Annular, No flow                               |
| 15:00       |       |       | Run ,9.625 casing,40#, HCL-80, BTC casing      |
|             |       |       | Shoe track length 94.47, Total length of ass   |
|             | 21:00 | 6.00  | 2 joints down F/ 6551 -T/6680, 33 Centraliz    |
| 21:00       | 22:30 | 1.50  | Circulate @6680' 2 casing volumes. Rig do      |
| 22:30       | 02:30 | 4.00  | S/M with basic, test lines t/5000 psi.pump 2   |
|             |       |       | 14.8 ,200 sacks.displace with 499bbbls of fre  |
|             |       |       | bleed back 4 bbbls. Floats held, 9 bbbls =5sk  |
| 02:30       | 05:30 | 3.00  | Nipple down bop's,lift stack to set slips, set |
| 05:30       | 06:00 | 0.50  | Cont. to rig down spool and dsa.               |
|             |       |       |  |
| Total Hours |       | 24.00 | Diesel R                                       |

[illegible]



|              |   |  |
|--------------|---|--|
| HTHP         |   |  |
| Cake         |   |  |
| %Solids      | 2.5   |  |
| %Oil         |   |  |
| %Water       | 99  |  |
| %Sand        |   |  |
| PH           | 9   |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 65000   |  |
|              |   |  |
| Calcium      | 920   |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |

|  |   |                     |
|--|---|---------------------|
|  | <b>Present Operation @ 0600 Hrs</b>   |                     |
|  |   |                     |
|  |   |                     |
|  |   |                     |
|  | Rig crew, TP & DSM  |                     |
|  | g as fallows: 2jnt shoe track 1joint & test, 50jnts casing F/139' -T/ 2378'     |                     |
|  |   |                     |
|  |   |                     |
|  | g as follows: 31jnts F/2378 - T/3747', While circulating surface to surface     |                     |
|  | no casing psi, circulate gas from wellbore (15ft flare)at 400gpm while          |                     |
|  | s to inside reserve pit. Spot 60bbl, 10.2#, cap, check casing psi, open         |                     |
|  |   |                     |
|  | g as follows: 64jnts F/3747 - T/6680',Shoe set at 6680', Float collar at 6585', |                     |
|  | sembly 6685.19, Fill casing at 4977 & wash last 2 joints down F/ 6551           |                     |
|  | zers installed F/ 6670 -T/ 886' in 180' spacing                                 |                     |
|  | wn casing crew.   |                     |
|  | '0bbl spacer,pump 493bbbls of lead @ 11.8, 1150 sacks,pump 47bblsof tail        |                     |
|  | ash water.bump plug @499bbbls in with 1870+500over.hold 5 mins ,                |                     |
|  | s of cement returns to surface.rig down cementers.                              |                     |
|  | slips with 220k 90% of string weight.   |                     |
|  |   |                     |
|  |   | <b>Diesel Total</b> |

|  |  |         |
|--|--|---------|
|  | ROP                                      | 0       |
|  | WOB                                      | 0       |
|  | Rot RPM                                  | 0       |
|  | TFA                                      | 2.59900 |
|  | MM RPM                                   | 0       |
|  | Torque                                   | 0       |
|  | Grade                                    | 1/1     |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 100     |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 4.158   |
|  | Bbl/Strk                                 | 0.0990  |
|  | Gal/Min                                  | 790.00  |
|  | Pressure                                 | 3200    |
|  | AV DP                                    | 158     |
|  | AV DC                                    | 173     |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.Brake issues.



|                |
|----------------|
| 54             |
| 47-49          |
| 60             |
| 1.72000        |
| 136            |
| 8-10k          |
|                |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 4.158          |
| 0.0990         |
| 790.00         |
| 3200           |
| 158            |
| 173            |

|         |      |
|---------|------|
| 1       | xo   |
| 5       | hwdp |
| 1       | jar  |
| 12      | hwdp |
|         |      |
|         |      |
| BHA Hrs |      |
| Muc     |      |
| Bg Gas  |      |
| Con Gas |      |
| Tr Gas  |      |
| MAX     |      |
| Est PP  |      |
| ECD     |      |
|         |      |
| %Shale  |      |
| %Sand   |      |
| %Lime   |      |
| %Other  |      |
| DEPTH   |      |

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|                 |     |      |  |                |          |  |
|-----------------|-----|------|--|----------------|----------|--|
|                 | 6.5 |      |  |                | 4 1/2 if |  |
|                 | 5   | 3    |  |                | 4 1/2if  |  |
|                 | 6.5 | 2.75 |  |                | 4 1/2 if |  |
|                 | 5   | 3    |  |                | 4 1/2if  |  |
|                 |     |      |  |                |          |  |
|                 |     |      |  |                |          |  |
| 90.25           |     |      |  | Total BHA      |          |  |
| Log Information |     |      |  | BOP Test       |          |  |
| 350.00          |     |      |  | Last Test      |          |  |
| 1355            |     |      |  | Next Test      |          |  |
| 0               |     |      |  | Test PSI       |          |  |
| 1355            |     |      |  | Safety Topic   |          |  |
|                 |     |      |  | running casing |          |  |
|                 |     |      |  | Accident       |          |  |
| Lithology       |     |      |  | NONE           |          |  |
|                 |     |      |  | Personnel      |          |  |
| 10%             |     |      |  | Contractor     |          |  |
| 0%              |     |      |  | Service Co     |          |  |
| 90%             |     |      |  | Co-Rep         |          |  |
| 6685            |     |      |  | Totals         |          |  |

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| 2.74            |
| 153.61          |
| 29.00           |
| 366.52          |
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| <b>1,039.30</b> |
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| 4/5/2017        |
| 4/26/2017       |
| 5000            |
|                 |
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| 11              |
| 9               |
| 2               |
| 22              |
|                 |
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| From        | To    | Hrs.  |   |
|-------------|-------|-------|---|
| 06:00       | 09:00 | 3.00  | Nipple down BOP, make rough cut on 6.625        |
| 09:00       | 12:30 | 3.50  | Nipple up BOP, Install "B" section, test casing |
| 12:30       | 13:00 | 0.50  | Rig down BOP lifts                              |
| 13:00       | 18:00 | 5.00  | S/M with yellowjacket test crew, make up test   |
|             |       |       | HCR,Inside choke line valve,Inside/out side     |
|             |       |       | Expro power choke to 250psi low 5000 psi        |
| 18:00       | 24:00 | 6.00  | Prep for OBM, set open tops,dryer shakers,      |
|             |       |       | clean mud tanks isolate suction tanks.          |
| 24:00       | 00:30 | 0.50  | Rig service                                     |
| 0:30        | 04:00 | 3.50  | TIH with 4 stands of 6.5 dc's and 6 stands of   |
| 4:00        | 6:00  | 2.00  | Make up directional bha. Install mwd test s     |
|             |       |       |   |
|             |       |       |   |
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|             |       |       |   |
| Total Hours |       | 24.00 | Diesel R  |

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|              |   |  |
|--------------|---|--|
| HTHP         | 1   |  |
| Cake         | 1   |  |
| %Solids      | 0   |  |
| %Oil         | 82  |  |
| %Water       | 18  |  |
| %Sand        |   |  |
| PH           | 0   |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 17000   |  |
|              |   |  |
| Calcium      | 6000  |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |



|  |  |                |
|--|--|----------------|
|  | ROP                                      |                |
|  | WOB                                      |                |
|  | Rot RPM                                  |                |
|  | TFA                                      | 1.32000        |
|  | MM RPM                                   |                |
|  | Torque                                   |                |
|  | Grade                                    |                |
|  | <i>Pump &amp; Hydraulics Information</i> |                |
|  | COMBO                                    | <i>Pump #1</i> |
|  | Type                                     | BSF            |
|  | Liner                                    | 6              |
|  | Stroke                                   | 12             |
|  | SPM                                      | 100            |
|  | %Eff                                     | 95             |
|  | Gal/Strk                                 | 4.158          |
|  | Bbl/Strk                                 | 0.0990         |
|  | Gal/Min                                  | 790.00         |
|  | Pressure                                 | 3200           |
|  | AV DP                                    | 158            |
|  | AV DC                                    | 173            |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.Brake issues.

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|                |
|----------------|
| 0              |
| 0              |
| 0              |
| 2.59900        |
| 0              |
| 0              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 4.158          |
| 0.0990         |
| 790.00         |
| 3200           |
| 158            |
| 173            |

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|         |  |
| BHA Hrs |  |
| Muc     |  |
| Bg Gas  |  |
| Con Gas |  |
| Tr Gas  |  |
| MAX     |  |
| Est PP  |  |
| ECD     |  |
|         |  |
| %Shale  |  |
| %Sand   |  |
| %Lime   |  |
| %Other  |  |
| DEPTH   |  |

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| 2         |
| 22        |
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| From        | To    | Hrs.  |  |
|-------------|-------|-------|--|
| 06:00       | 07:30 | 1.50  | Trip in hole, test accelglide                  |
| 07:30       | 08:30 | 1.00  | Trip in hole F/205' - T/ 2219'                 |
| 08:30       | 09:00 | 0.50  | Leak test 5'X22" mud gas separator w/ h2o      |
| 09:00       | 11:30 | 2.50  | Trip in hole F/2219' - T/ 5710'                |
| 11:30       | 12:00 | 0.50  | Rig service                                    |
| 12:00       | 14:00 | 2.00  | Trip in hole PU 26 joints up off of catwalk F/ |
| 14:00       | 15:00 | 1.00  | Test casing to 1500# for 30min good test &     |
| 15:00       | 16:30 | 1.50  | Drlg Cement: F/6565' - T/6685', RPM:dhm        |
| 16:30       | 16:45 | 0.25  | Drlg T/6690' Circulate & preform FIT, 8.3te    |
| 16:45       | 22:00 | 5.25  | Fill pits with 10.0 OBM & displace 8.3 fresh   |
| 22:00       | 22:30 | 0.50  | Drlg Actual F/6690' T/6728' wob-25 pp-290      |
| 22:30       | 23:00 | 0.50  | Rig service                                    |
| 23:00       | 23:30 | 0.50  | Trouble shoot pason                            |
| 23:30       | 24:00 | 0.50  | Drlg Actual F/6728' T/6743' =15' @30'fph, v    |
| 24:00       | 01:00 | 1.00  | Slide F/6743' T/6755' =12' @12fph, wob 15      |
| 01:00       | 05:30 | 4.50  | Drlg Actual F/6755' T/6973'=218' @48 fph v     |
| 05:30       | 06:00 | 0.50  | Circ wait on pason, system down. (Doghou       |
|             |       |       |  |
|             |       |       |  |
| Total Hours |       | 24.00 | Diesel R                                       |

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|              |   |  |
|--------------|---|--|
| HTHP         | 1   |  |
| Cake         | 1   |  |
| %Solids      | 11  |  |
| %Oil         | 74  |  |
| %Water       | 15  |  |
| %Sand        |   |  |
| PH           | 0   |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 29000   |  |
|              |   |  |
| Calcium      | 7000  |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |



|  |  |         |
|--|--|---------|
|  | ROP                                      | 43      |
|  | WOB                                      | 28      |
|  | Rot RPM                                  | 35      |
|  | TFA                                      | 1.32000 |
|  | MM RPM                                   | 150     |
|  | Torque                                   | 8       |
|  | Grade                                    |         |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 70      |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 4.158   |
|  | Bbl/Strk                                 | 0.0990  |
|  | Gal/Min                                  | 291.00  |
|  | Pressure                                 | 2800    |
|  | AV DP                                    | 269     |
|  | AV DC                                    | 393     |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.Brake issues.

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|                |
|----------------|
| 0              |
| 0              |
| 0              |
| 2.59900        |
| 0              |
| 0              |
| 1/1            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 100            |
| 95             |
| 4.158          |
| 0.0990         |
| 291.00         |
| 2800           |
| 269            |
| 393            |

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|---------|--|
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|         |  |
|         |  |
|         |  |
| BHA Hrs |  |
| Muc     |  |
| Bg Gas  |  |
| Con Gas |  |
| Tr Gas  |  |
| MAX     |  |
| Est PP  |  |
| ECD     |  |
|         |  |
| %Shale  |  |
| %Sand   |  |
| %Lime   |  |
| %Other  |  |
| DEPTH   |  |

Circulate wait on pason, @ kick off point

2,606

Diesel Left

| Closure Dir |         | R + / L- |           |  |
|-------------|---------|----------|-----------|--|
|             |         |          |           |  |
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|             |         |          |           |  |
|             |         |          |           |  |
|             |         |          |           |  |
| nm          | OD      | ID       | Conn      |  |
| it          | 8.5     |          | 4 1/2 reg |  |
| tor         | 7       |          | 4 1/2 xhb |  |
| ipc         | 6 11/16 | 2 7/8    | 4 1/2xhb  |  |
| xo          | 6 7/8   | 2 15/16  | 5 1/2 fhb |  |
| 1 dc        | 6 3/4   | 3 1/2    | 5 1/2hxb  |  |
| xo          | 6 3/4   | 2 7/8    | 4 1/2xhb  |  |
| fc          | 6 1/2   | 2 3/4    | 4 1/2ifb  |  |
| o           | 6 1/2   | 2 7/8    | ifb       |  |
| dp          | 5       | 4.3      | 4 1/2 if  |  |
| glide       | 6 5/8   | 3 1/2    | 4 1/2 if  |  |





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| 11        |
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| 22        |
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| From        | To    | Hrs.  |  |
|-------------|-------|-------|--|
| 06:00       |       |       | Rig repair, Circulate & wait on Pason to rep |
|             | 09:30 | 3.50  | plug-in in DH at 200-240 hertz (60hz norma   |
| 09:30       | 10:00 | 0.50  | Drlg Actual F/6973' T/7003'kop=30' @60fph    |
| 10:00       | 12:30 | 2.50  | Slide F/7003' T/7027' =24' @9.6fph, wob 15   |
| 12:30       | 12:45 | 0.25  | Drlg Actual F/7027' T/7036'=9' @44fph,wob    |
| 12:45       | 17:00 | 4.25  | Slide F/7036' T/7061' =25' @ 4.3fph, wob 1   |
| 17:00       | 17:30 | 0.50  | Rig service top drive                        |
| 17:30       | 17:45 | 0.25  | Drlg Actual F/7061' T/7067'=6' @24fph,wob    |
| 17:45       | 23:00 | 5.25  | Slide F/7067' T/7094'=27' @5fph.wob-10-20    |
| 23:00       | 23:30 | 0.50  | Drlg Actual F/7094' T/7099'=5' @10fph,wob    |
| 23:30       | 0:00  | 0.50  | Rig service                                  |
| 00:00       | 01:30 | 1.50  | Down time,Troubleshoot pason, pull 3 stan    |
| 01:30       | 03:00 | 1.50  | Slide F/7099' T/7114' =15' @10fph,wob-25     |
| 03:00       | 03:30 | 0.50  | Drill Actual F/7114' T/7126'=12' @24 fph,wo  |
| 03:30       | 06:00 | 2.50  | Slide F/7126' T/7134'=8' @3.2 fph,wob-15-2   |
|             |       |       |  |
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|             |       |       |  |
| Total Hours |       | 24.00 | Diesel R                                     |

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|              |   |  |
|--------------|---|--|
| HTHP         | 1   |  |
| Cake         | 1   |  |
| %Solids      | 12  |  |
| %Oil         | 72  |  |
| %Water       | 16  |  |
| %Sand        |   |  |
| PH           | 0   |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 33000   |  |
|              |   |  |
| Calcium      | 14400   |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |

|   |  |   |                              |              |  |
|---|--|---|------------------------------|--------------|--|
|   |  |   | Present Operation @ 0600 Hrs |              |  |
|   |  |   |                              |              |  |
| Place Doghouse computer, Tec on location at 06:00, Pason Tec found    |  |   |                              |              |  |
| n), Reset SCR & XO Pason Computer                                     |  |   |                              |              |  |
| 1,wob-28, pp-2900, gpm-581-457, tq-5-4k, diff-300,rpm145-114dhm+35tds |  |   |                              |              |  |
| 5, pp-2900 gpm-581-457 diff-200, rpm145-114dhm                        |  |   |                              |              |  |
| p-28, pp-2900, gpm-581-457, tq-5-4k, diff-300,rpm145-114dhm+35tds     |  |   |                              |              |  |
| 3-15K, pp-2900 gpm-581-457 diff-200, rpm145-114dhm                    |  |   |                              |              |  |
|   |  |   |                              |              |  |
| p-28, pp-2900, gpm-581-457, tq-5-4k, diff-300,rpm145-114dhm+35tds     |  |   |                              |              |  |
| 0,pp-2800,gpm-590,diff-300,rpm-150 dhm                                |  |   |                              |              |  |
| 25,pp2800,gpm-600,diff 250,rpm145+35dhm=180,tq10-12k                  |  |   |                              |              |  |
|   |  |   |                              |              |  |
| ds out of curve, monitor well   |  |   |                              |              |  |
| diff-150,pp-2750,dhm-rpm=145  |  |   |                              |              |  |
| ob-28,pp-2750,gpm-580,tq-5-6k,diff-200,rpm-35+145dhm=180rpm           |  |   |                              |              |  |
| 25,pp-2750,gpm-580,diff-100-150,rpm-145dhm.                           |  |   |                              |              |  |
|   |  |   |                              |              |  |
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|   |  |   |                              |              |  |
|   |  |   |                              |              |  |
| Received  |  | 0 |                              | Diesel Total |  |
|   |  |   |                              |              |  |
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|  | ROP                                      | 13             |
|  | WOB                                      | 28             |
|  | Rot RPM                                  | 35             |
|  | TFA                                      | 1.32000        |
|  | MM RPM                                   | 150            |
|  | Torque                                   | 8              |
|  | Grade                                    | N/A            |
|  | <i>Pump &amp; Hydraulics Information</i> |                |
|  | COMBO                                    | <i>Pump #1</i> |
|  | Type                                     | BSF            |
|  | Liner                                    | 6              |
|  | Stroke                                   | 12             |
|  | SPM                                      | 70             |
|  | %Eff                                     | 95             |
|  | Gal/Strk                                 | 4.158          |
|  | Bbl/Strk                                 | 0.0990         |
|  | Gal/Min                                  | 291.00         |
|  | Pressure                                 | 2800           |
|  | AV DP                                    | 306            |
|  | AV DC                                    | 399            |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.Brake issues.



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| <b>Pump #2</b> |
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| 24.75           |  |  |            | Total BHA    |  |  |
| Log Information |  |  |            | BOP Test     |  |  |
| 29.00           |  |  |            | Last Test    |  |  |
| 45              |  |  |            | Next Test    |  |  |
| 0               |  |  |            | Test PSI     |  |  |
| 111             |  |  |            | Safety Topic |  |  |
| 3931psi         |  |  |            | XXXX         |  |  |
| 10.32           |  |  |            | Accident     |  |  |
| Lithology       |  |  |            | NONE         |  |  |
| 40%             |  |  |            | Personnel    |  |  |
|                 |  |  | Contractor |              |  |  |
| 60%             |  |  | Service Co |              |  |  |
|                 |  |  | Co-Rep     |              |  |  |
| 7129            |  |  | Totals     |              |  |  |



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| From        | To    | Hrs.  |  |
|-------------|-------|-------|--|
| 06:00       | 08:45 | 2.75  | Slide F/7134' _ T/7146'= 12' @4.3 fph,wob-1    |
| 08:45       | 09:00 | 0.25  | Drill Actual F/7146' _ T/7156'=10' @ 40fph,v   |
| 09:00       | 13:00 | 4.00  | Slide F/7156' _T/7184'= 28' @7.0fph,wob-1      |
| 13:00       | 13:30 | 0.50  | Rig Service                                    |
| 13:30       | 14:00 | 0.50  | Drill Actual F/7184' _ T/7200'= 16' @ 32fph,v  |
| 14:00       | 15:30 | 1.50  | Slide F/7200' _T/7219'= 19' @ 12.6fph,wob-1    |
| 15:30       | 15:45 | 0.25  | Drill Actual F/7219' _ T/7225'= 6' @ 24fph,w   |
| 15:45       | 18:00 | 2.25  | Slide F/7225' _T/7250'= 25' @ 11fph,wob-1      |
| 18:00       | 18:30 | 0.50  | Drill Actual F/7250' _ T/7260'= 10' @ 20fph,v  |
| 18:30       | 21:30 | 3.00  | Slide F/7260' T/7274' =14' @5fph wob-28,p      |
| 21:30       | 22:00 | 0.50  | Circ build slug,fill trip tank and flow check. |
| 22:00       |       |       | TOH F/7260' T/bit l/d motor,bit and mwd tool   |
|             | 02:30 | 4.50  | manual tongs.                                  |
| 02:30       | 04:00 | 1.50  | P/U new motor- .29rpg, scribe,p/u new mwd tool |
| 04:00       | 06:00 | 2.00  | Trip in hole, 600' bit depth                   |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
| Total Hours |       | 24.00 | Diesel R                                       |

| <i>MD</i>       | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------------|--------------|----------------|
| 7062            | 8.53         | 70.81          |
| 7092            | 11.34        | 70.37          |
| 7123            | 13.54        | 70.01          |
| 7,186.00        | 19.52        | 71.95          |
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| <b>Current</b>  |              |                |
| REPORT # TIME   | <u>10:30</u> |                |
| Date            | 4/14/2017    |                |
| Temperature     | 112          |                |
| TVD             | 7113         |                |
| Weight          | 9.9          |                |
| Viscosity       | 42           |                |
| PV              | 17           |                |
| YP              | 8            |                |
| Gels            | 9            | 12             |
| Filtrate 30 min | 20           |                |



|              |   |  |
|--------------|---|--|
| HTHP         | 1   |  |
| Cake         | 1   |  |
| %Solids      | 12  |  |
| %Oil         | 72  |  |
| %Water       | 16  |  |
| %Sand        |   |  |
| PH           | 0   |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 33000   |  |
|              |   |  |
| Calcium      | 14400   |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |

|   |   |                                     |              |
|---|---|-------------------------------------|--------------|
|   |   | <b>Present Operation @ 0600 Hrs</b> |              |
|   |   |                                     |              |
| 15-25,pp-2750,gpm-580,diff-100-150,rpm-145dhm.                    |   |                                     |              |
| vob-28,pp-2760,gpm-580,tq-5-6k,diff-200,rpm-35+145dhm=180rpm      |   |                                     |              |
| 5-25,pp-2760,gpm-580,diff-100-150,rpm-145dhm.                     |   |                                     |              |
|   |   |                                     |              |
| wob-28,pp-2770,gpm-580,tq-5-6k,diff-200,rpm-35+145dhm=180rpm      |   |                                     |              |
| -15-25,pp-2780,gpm-580,diff-100-150,rpm-145dhm.                   |   |                                     |              |
| vob-28,pp-2780,gpm-580,tq-5-7k,diff-200,rpm-35+145dhm=180rpm      |   |                                     |              |
| 5-25,pp-2780,gpm-580,diff-100-150,rpm-145dhm.                     |   |                                     |              |
| wob-28,pp-2780,gpm-580,tq-5-7k,diff-200,rpm-35+145dhm=180rpm      |   |                                     |              |
| p-2750,gpm-580,tq-5-7k,diff-200,rpm145-dhm                        |   |                                     |              |
|   |   |                                     |              |
| cl. c/o rotating head @1400', ST80 broke down at BHA, work BHA w/ |   |                                     |              |
|   |   |                                     |              |
| d tool and test same (witness scribe), make up bit #6             |   |                                     |              |
|   |   |                                     |              |
|   |   |                                     |              |
|   |   |                                     |              |
|   |   |                                     |              |
|   |   |                                     |              |
| Received  | 0 |                                     | Diesel Total |
|   |   |                                     |              |

| TVD      | V S   | +N / -S |
|----------|-------|---------|
| 7060.51  | 25.52 | 35.61   |
| 7,090.05 | 29.72 | 37.33   |
| 7,120.32 | 35.16 | 39.6    |
| 7,180.73 | 49.43 | 45.26   |
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|  |  | MT.       |  | CURRENT   |   |     |  |
|  |  | Bit No    |  | 6         |   |     |  |
|  |  | Size      |  | 8.5       |   |     |  |
|  |  | Make      |  | pdc logic |   |     |  |
|  |  | Serial    |  | 10046     |   |     |  |
|  |  | Type      |  | pld613    |   |     |  |
|  |  | Nozzles   |  | 6         | x | 22s |  |
|  |  | Depth Out |  |           |   |     |  |
|  |  | Depth In  |  | 7134      |   |     |  |
|  |  | Footage   |  |           |   |     |  |
|  |  | Hours     |  |           |   |     |  |

|  |  |         |
|--|--|---------|
|  | ROP                                      |         |
|  | WOB                                      |         |
|  | Rot RPM                                  |         |
|  | TFA                                      | 1.32000 |
|  | MM RPM                                   |         |
|  | Torque                                   |         |
|  | Grade                                    |         |
|  | <i>Pump &amp; Hydraulics Information</i> |         |
|  | COMBO                                    | Pump #1 |
|  | Type                                     | BSF     |
|  | Liner                                    | 6       |
|  | Stroke                                   | 12      |
|  | SPM                                      | 70      |
|  | %Eff                                     | 95      |
|  | Gal/Strk                                 | 4.158   |
|  | Bbl/Strk                                 | 0.0990  |
|  | Gal/Min                                  | 291.00  |
|  | Pressure                                 | 2800    |
|  | AV DP                                    | 279     |
|  | AV DC                                    | 439     |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.Brake issues.



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|----------------|
| 15             |
| 28             |
| 35             |
| 1.32000        |
| 150            |
| 8              |
| 2/3            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 70             |
| 95             |
| 4.158          |
| 0.0990         |
| 291.00         |
| 2800           |
| 279            |
| 439            |

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| BHA Hrs |  |
| Muc     |  |
| Bg Gas  |  |
| Con Gas |  |
| Tr Gas  |  |
| MAX     |  |
| Est PP  |  |
| ECD     |  |
|         |  |
| %Shale  |  |
| %Sand   |  |
| %Lime   |  |
| %Other  |  |
| DEPTH   |  |

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| From        | To    | Hrs.  |   |
|-------------|-------|-------|---|
| 06:00       |       |       | Trip in hole, install RCD at 773', Trip in hole |
|             | 10:30 | 4.50  | correct displacement, circulate surface to s    |
| 10:30       |       |       | Rig repair, replace off drillers side #2 pump   |
|             | 04:30 | 18.00 | Test pump thru 2" bleed off line and pressu     |
| 04:30       | 05:15 | 0.75  | TIH F/6633' T/7183' wash F/7183' T/7274'        |
| 05:15       | 06:00 | 0.75  | Relog gamma F/7183' - T/7172, Bit to sens       |
|             |       |       |   |
|             |       |       |   |
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| Total Hours |       | 24.00 | Diesel R  |

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|--------------|---|--|
| HTHP         | 1   |  |
| Cake         | 1   |  |
| %Solids      | 11.4  |  |
| %Oil         | 71  |  |
| %Water       | 16  |  |
| %Sand        |   |  |
| PH           | 0   |  |
| MBT          |   |  |
| Pm           |   |  |
| Pf           |   |  |
| Mf           |   |  |
| Chloride     | 34000   |  |
|              |   |  |
| Calcium      | 14400   |  |
| 600 RPM      |   |  |
| 300 RPM      |   |  |
| %LGS         |   |  |
| System bbls  |   |  |
| Mud Loss     |   |  |
| Cum Mud Loss |   |  |
| Safety Notes | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs ar |  |

|  |       | Present Operation @ 0600 Hrs |
|--|-------|------------------------------|
| <p>to 3000' fill drill string, 70bbl proper displacement, Trip in hole to 6633',</p> <p>surface, mechanic for pumps arrived at 08:00</p> <p>module. Parts arrived on location at 00:30, Well static</p> <p>re test T/3000 psi no leaks good test @04:00</p> <p>or = 60', Bit to gamma =52'</p> |       |                              |
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| Received   | 7,200 | Diesel Total                 |

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|--|--|----------------|
|  | ROP                                      | XXX            |
|  | WOB                                      | XXX            |
|  | Rot RPM                                  | XXX            |
|  | TFA                                      | 1.32000        |
|  | MM RPM                                   | XXX            |
|  | Torque                                   | XXX            |
|  | Grade                                    |                |
|  | <i>Pump &amp; Hydraulics Information</i> |                |
|  | COMBO                                    | <i>Pump #1</i> |
|  | Type                                     | BSF            |
|  | Liner                                    | 6              |
|  | Stroke                                   | 12             |
|  | SPM                                      | 70             |
|  | %Eff                                     | 95             |
|  | Gal/Strk                                 | 4.158          |
|  | Bbl/Strk                                 | 0.0990         |
|  | Gal/Min                                  | 291.00         |
|  | Pressure                                 | 2800           |
|  | AV DP                                    | 261            |
|  | AV DC                                    | 439            |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.Brake issues.



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|----------------|
| 15             |
| 28             |
| 35             |
| 1.32000        |
| 150            |
| 8              |
| 2/3            |
|                |
| <b>Pump #2</b> |
| BSF            |
| 6              |
| 12             |
| 70             |
| 95             |
| 4.158          |
| 0.0990         |
| 291.00         |
| 2800           |
| 261            |
| 439            |

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| BHA Hrs |  |
| Muc     |  |
| Bg Gas  |  |
| Con Gas |  |
| Tr Gas  |  |
| MAX     |  |
| Est PP  |  |
| ECD     |  |
|         |  |
| %Shale  |  |
| %Sand   |  |
| %Lime   |  |
| %Other  |  |
| DEPTH   |  |

Relog gamma at 7272'

1,014

Diesel Left

Closure Dir

R + / L-

| nm    | OD      | ID      | Conn      |
|-------|---------|---------|-----------|
| it    | 8.5     |         | 4 1/2 reg |
| tor   | 7       |         | 4 1/2 xhb |
| ipc   | 6 11/16 | 2 7/8   | 4 1/2xhb  |
| xo    | 6 7/8   | 2 15/16 | 5 1/2 fhb |
| 1 dc  | 6 3/4   | 3 1/2   | 5 1/2hxb  |
| xo    | 6 3/4   | 2 7/8   | 4 1/2xhb  |
| fc    | 6 1/2   | 2 3/4   | 4 1/2ifb  |
| o     | 6 1/2   | 2 7/8   | ifb       |
| dp    | 5       | 4.3     | 4 1/2 if  |
| glide | 6 5/8   | 3 1/2   | 4 1/2 if  |



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|------------------------|
| 39.75                  |
| <i>Log Information</i> |
| n/a                    |
| n/a                    |
| n/a                    |
| n/a                    |
| 3931psi                |
| 10.32                  |
| <i>Lithology</i>       |
| 10%                    |
|                        |
| 90%                    |
|                        |
| 7260'                  |

|                     |
|---------------------|
| Total BHA           |
| <i>BOP Test</i>     |
| Last Test           |
| Next Test           |
| Test PSI            |
| <i>Safety Topic</i> |
| Working on pump     |
| <i>Accident</i>     |
| NONE                |
| <i>Personnel</i>    |
| Contractor          |
| Service Co          |
| Co-Rep              |
| Totals              |



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|                 | <b>Current</b>  |    |  |  |
| REPORT # TIME   | <a href="#">10:30</a>   |    |  |  |
| Date            | 4/17/2017   |    |  |  |
| Temperature     | 112   |    |  |  |
| TVD             | 7841  |    |  |  |
| Weight          | 10  |    |  |  |
| Viscosity       | 40  |    |  |  |
| PV              | 15  |    |  |  |
| YP              | 8   |    |  |  |
| Gels            | 8   | 11 |  |  |
| Filtrate 30 min | 20  |    |  |  |
| HTHP            | 1   |    |  |  |
| Cake            | 1   |    |  |  |
| %Solids         | 13  |    |  |  |
| %Oil            | 72  |    |  |  |
| %Water          | 15  |    |  |  |
| %Sand           |   |    |  |  |
| PH              | 0   |    |  |  |
| MBT             |   |    |  |  |
| Pm              |   |    |  |  |
| Pf              |   |    |  |  |
| Mf              |   |    |  |  |
| Chloride        | 33000   |    |  |  |
|                 |   |    |  |  |
| Calcium         | 15600   |    |  |  |
| 600 RPM         |   |    |  |  |
| 300 RPM         |   |    |  |  |
| %LGS            |   |    |  |  |
| System bbls     |   |    |  |  |
| Mud Loss        |   |    |  |  |
| Cum Mud Loss    |   |    |  |  |
| Safety Notes    | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs an |    |  |  |

|   |                              |  |
|---|------------------------------|--|
|   | Present Operation @ 0600 Hrs |  |
|   |                              |  |
| oth, Bit to sensor = 60', Bit to gamma =52'                             |                              |  |
| ,pp-2400off btm,gpm-580,tq-0k,diff-175-150,rpm155-dhm                   |                              |  |
| ob-28,pp-2780,gpm-580,tq-5-7k,diff-200,rpm-35+145dhm=180rpm             |                              |  |
| r)+Drill Actual F/7312'_ T/7317'= 5' @ 20' fph (0.25hr) Same Parameters |                              |  |
| r)+ Drill Actual F/7343'_ T/7347'= 4' @ 16' fph (0.25hr) " "            |                              |  |
| r)+Drill Actual F/7375'_ T/7378'= 3' @ 12' fph (0.25hr) " "             |                              |  |
| r)+Drill Actual F/7404'_ T/7420'= 16' @ 32 fph (0.50hr) " "             |                              |  |
| )+Drill Actual F/7441'_ T/7445'= 4' @ 16fph (0.25hr) " "                |                              |  |
| )   |                              |  |
|   |                              |  |
| )+Drill Actual F/7498'_ T/7506'= 8' @ 16fph (0.25hr) " "                |                              |  |
| )+Drill Actual F/7529'= T/7537'= 8' @28fph (0.25hr) " 460gpm,2050pp     |                              |  |
| r)+Drill Actual F/7561'= T/7569'= 8' @28fph (0.25hr) " 460gpm,2050pp    |                              |  |
|   |                              |  |
| r) + Drill actual F/7688' T/7693'=5' @20fph (.25hr)" "                  |                              |  |
| 460gpm,2050 pp  |                              |  |
|   |                              |  |
| m 2110-pp,wob-38, diff-240  |                              |  |
| 145dhm=180rpm,500-gpm,2110-pp,diff-250,wob-36                           |                              |  |
|   |                              |  |
| 145dhm=180rpm,500-gpm,2110-pp,diff-250,wob-36                           |                              |  |
| n,2200-pp, wob-36, diff-240   |                              |  |
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|  |          |                               |           |   |     |  |
|  |          | MT.                           | CURRENT   |   |     |  |
|  |          | Bit No                        | 6         |   |     |  |
|  |          | Size                          | 8.5       |   |     |  |
|  |          | Make                          | pdc logic |   |     |  |
|  |          | Serial                        | 10046     |   |     |  |
|  |          | Type                          | pld613    |   |     |  |
|  |          | Nozzles                       | 6         | x | 22s |  |
|  |          | Depth Out                     | 7911      |   |     |  |
|  |          | Depth In                      | 7274      |   |     |  |
|  |          | Footage                       | 637       |   |     |  |
|  |          | Hours                         | 22.75     |   |     |  |
|  |          | ROP                           | 28        |   |     |  |
|  |          | WOB                           | 35        |   |     |  |
|  |          | Rot RPM                       | 35        |   |     |  |
|  |          | TFA                           | 1.32000   |   |     |  |
|  |          | MM RPM                        | 145       |   |     |  |
|  |          | Torque                        | 6         |   |     |  |
|  |          | Grade                         |           |   |     |  |
|  |          | Pump & Hydraulics Information |           |   |     |  |
|  |          | COMBO                         | Pump #1   |   |     |  |
|  | Type     | BSF                           |           |   |     |  |
|  | Liner    | 6                             |           |   |     |  |
|  | Stroke   | 12                            |           |   |     |  |
|  | SPM      | 60                            |           |   |     |  |
|  | %Eff     | 95                            |           |   |     |  |
|  | Gal/Strk | 4.158                         |           |   |     |  |
|  | Bbl/Strk | 0.0990                        |           |   |     |  |
|  | Gal/Min  | 250.00                        |           |   |     |  |
|  | Pressure | 2200                          |           |   |     |  |
|  | AV DP    | 261                           |           |   |     |  |
|  | AV DC    | 439                           |           |   |     |  |

mature stoned by mechanic. Top drive needs looked at for stalling out issues.Brake issues.





|                 |   |     |  |  |                |            |
|-----------------|---|-----|--|--|----------------|------------|
|                 |   |     |  |  |                |            |
| <b>Previous</b> |   |     |  |  | <b>Qty</b>     | <b>Ite</b> |
| 5               |   |     |  |  | 1              | b          |
| 8.5             |   |     |  |  | 1              | mo         |
| Sec             |   |     |  |  | 1              | nm         |
| 12850333        |   |     |  |  | 1              | nm         |
| MMD55DM         |   |     |  |  | 1              | hds        |
| 6               | x | 22s |  |  | 1              | nm         |
| 7274            |   |     |  |  | 1              | nm         |
| 6685            |   |     |  |  | 1              | x          |
| 589             |   |     |  |  | 15             | 5"         |
| 39.75           |   |     |  |  | 1              | acc        |
| 15              |   |     |  |  |                |            |
| 28              |   |     |  |  |                |            |
| 35              |   |     |  |  |                |            |
| 1.32000         |   |     |  |  |                |            |
| 150             |   |     |  |  |                |            |
| 8               |   |     |  |  |                |            |
| 2/3             |   |     |  |  |                |            |
|                 |   |     |  |  | <b>BHA Hrs</b> |            |
|                 |   |     |  |  | <b>Muc</b>     |            |
| <b>Pump #2</b>  |   |     |  |  | <b>Bg Gas</b>  |            |
| BSF             |   |     |  |  | <b>Con Gas</b> |            |
| 6               |   |     |  |  | <b>Tr Gas</b>  |            |
| 12              |   |     |  |  | <b>MAX</b>     |            |
| 60              |   |     |  |  | <b>Est PP</b>  |            |
| 95              |   |     |  |  | <b>ECD</b>     |            |
| 4.158           |   |     |  |  |                |            |
| 0.0990          |   |     |  |  | <b>%Shale</b>  |            |
| 250.00          |   |     |  |  | <b>%Sand</b>   |            |
| 2200            |   |     |  |  | <b>%Lime</b>   |            |
| 261             |   |     |  |  | <b>%Other</b>  |            |
| 439             |   |     |  |  | <b>DEPTH</b>   |            |

This image shows a full page of a document template. It features a series of evenly spaced, thin black horizontal lines across the entire width of the page. The background is white. In the top left corner, there is a small, faint watermark or header text that reads "Sliding @7911".

|  |       |             |
|--|-------|-------------|
|  | 2,881 | Diesel Left |
|--|-------|-------------|

[illegible]

| Item                | OD      | ID      |  | Conn           |  |
|---------------------|---------|---------|--|----------------|--|
| Bit                 | 8.5     |         |  | 4 1/2 reg      |  |
| Motor               | 7       |         |  | 4 1/2 xhb      |  |
| IPC                 | 6 11/16 | 2 7/8   |  | 4 1/2xhb       |  |
| IXO                 | 6 7/8   | 2 15/16 |  | 5 1/2 fhb      |  |
| 1 dc                | 6 3/4   | 3 1/2   |  | 5 1/2hxb       |  |
| IXO                 | 6 3/4   | 2 7/8   |  | 4 1/2xhb       |  |
| rfc                 | 6 1/2   | 2 3/4   |  | 4 1/2ifb       |  |
| o                   | 6 1/2   | 2 7/8   |  | ifb            |  |
| dp                  | 5       | 4.3     |  | 4 1/2 if       |  |
| glide               | 6 5/8   | 3 1/2   |  | 4 1/2 if       |  |
|                     |         |         |  |                |  |
|                     |         |         |  |                |  |
|                     |         |         |  |                |  |
|                     |         |         |  |                |  |
|                     |         |         |  |                |  |
|                     |         |         |  |                |  |
| 62.5                |         |         |  | Total BHA      |  |
| BOP Log Information |         |         |  | BOP Test       |  |
| 106.00              |         |         |  | Last Test      |  |
| 435                 |         |         |  | Next Test      |  |
| n/a                 |         |         |  | Test PSI       |  |
| 750                 |         |         |  | Safety Topic   |  |
| 3931psi             |         |         |  | high psi lines |  |
| 10.32               |         |         |  | Accident       |  |
| Lithology           |         |         |  | NONE           |  |
| 10%                 |         |         |  | Personnel      |  |
|                     |         |         |  | Contractor     |  |
| 90%                 |         |         |  | Service Co     |  |
|                     |         |         |  | Co-Rep         |  |
| 7854                |         |         |  | Totals         |  |



[illegible]

[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 8195      | 92.51        | 54.37          |
| 8258      | 91.36        | 49.1           |
| 8349      | 87.5         | 38.9           |
|           |              |                |
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|                 | <b>Current</b>   |   |
| REPORT # TIME   | <a href="#">10:30</a>  |   |
| Date            | 4/18/2017  |   |
| Temperature     | 08   |   |
| TVD             | 8318   |   |
| Weight          | 10.1   |   |
| Viscosity       | 38   |   |
| PV              | 13   |   |
| YP              | 8  |   |
| Gels            | 7  | 9 |
| Filtrate 30 min | 20   |   |
| HTHP            | 1  |   |
| Cake            | 1  |   |
| %Solids         | 12   |   |
| %Oil            | 72   |   |
| %Water          | 15   |   |
| %Sand           |  |   |
| PH              | 0  |   |
| MBT             |  |   |
| Pm              |  |   |
| Pf              |  |   |
| Mf              |  |   |
| Chloride        | 66000  |   |
|                 |  |   |
| Calcium         | 11600  |   |
| 600 RPM         |  |   |
| 300 RPM         |  |   |
| %LGS            |  |   |
| System bbls     |  |   |
| Mud Loss        |  |   |
| Cum Mud Loss    |  |   |
| Safety Notes    | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs arr |   |





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|                 |           |           |  |               |  |
|                 |           |           |  |               |  |
| <i>nm</i>       | <i>OD</i> | <i>ID</i> |  | <i>Conn</i>   |  |
| it              | 8.5       |           |  | 4 1/2 reg     |  |
| tor             | 7         |           |  | 4 1/2 xhb     |  |
| ipc             | 6 11/16   | 2 7/8     |  | 4 1/2xhb      |  |
| xo              | 6 7/8     | 2 15/16   |  | 5 1/2 fhb     |  |
| 1 dc            | 6 3/4     | 3 1/2     |  | 5 1/2hxb      |  |
| xo              | 6 3/4     | 2 7/8     |  | 4 1/2xhb      |  |
| rfc             | 6 1/2     | 2 3/4     |  | 4 1/2ifb      |  |
| o               | 6 1/2     | 2 7/8     |  | ifb           |  |
| dp              | 5         | 4.3       |  | 4 1/2 if      |  |
| glide           | 6 5/8     | 3 1/2     |  | 4 1/2 if      |  |
|                 |           |           |  |               |  |
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|                 |           |           |  |               |  |
| 84.5            |           |           |  | Total BHA     |  |
| Log Information |           |           |  | BOP Test      |  |
| 109.00          |           |           |  | Last Test     |  |
| 508             |           |           |  | Next Test     |  |
| n/a             |           |           |  | Test PSI      |  |
| 657             |           |           |  | Safety Topic  |  |
| 3931psi         |           |           |  | safety cables |  |
| 10.32           |           |           |  | Accident      |  |
| Lithology       |           |           |  | NONE          |  |
| 10%             |           |           |  | Personnel     |  |
|                 |           |           |  | Contractor    |  |
| 90%             |           |           |  | Service Co    |  |
|                 |           |           |  | Co-Rep        |  |
| 8120            |           |           |  | Totals        |  |

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| <b>Length</b> |
| 1.00          |
| 31.56         |
| 15.29         |
| 2.72          |
| 29.78         |
| 3.23          |
| 31.06         |
| 1.69          |
| 474.47        |
| 6.13          |
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| <b>596.93</b> |
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| 4/12/2017     |
| 5/1/2017      |
| 5000          |
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| 11            |
| 7             |
| 2             |
| 18            |
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[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 8446      | 85.9         | 35.1           |
| 8634      | 87.58        | 33.45          |
| 8729      | 86.79        | 33.28          |
| 8,824.00  | 88.2         | 34.51          |
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|                 | <b>Current</b>   |    |
| REPORT # TIME   | <a href="#">10:30</a>  |    |
| Date            | 4/19/2017  |    |
| Temperature     |  |    |
| TVD             | 8884   |    |
| Weight          | 10.2   |    |
| Viscosity       | 39   |    |
| PV              | 15   |    |
| YP              | 7  |    |
| Gels            | 8  | 11 |
| Filtrate 30 min | 20   |    |
| HTHP            | 1  |    |
| Cake            | 1  |    |
| %Solids         | 12   |    |
| %Oil            | 73   |    |
| %Water          | 15   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 65000  |    |
|                 |  |    |
| Calcium         | 14200  |    |
| 600 RPM         |  |    |
| 300 RPM         |  |    |
| %LGS            |  |    |
| System bbls     |  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs arr |    |

[illegible]

|  |       |                               |          |  |   |  |     |  |  |
|--|-------|-------------------------------|----------|--|---|--|-----|--|--|
|  |       |                               |          |  |   |  |     |  |  |
|  |       |                               |          |  |   |  |     |  |  |
|  |       | MT.                           | CURRENT  |  |   |  |     |  |  |
|  |       | Bit No                        | 7        |  |   |  |     |  |  |
|  |       | Size                          | 8.5      |  |   |  |     |  |  |
|  |       | Make                          | SEC      |  |   |  |     |  |  |
|  |       | Serial                        | 12860364 |  |   |  |     |  |  |
|  |       | Type                          | MM65D    |  |   |  |     |  |  |
|  |       | Nozzles                       | 6        |  | x |  | 22s |  |  |
|  |       | Depth Out                     |          |  |   |  |     |  |  |
|  |       | Depth In                      | 8884     |  |   |  |     |  |  |
|  |       | Footage                       |          |  |   |  |     |  |  |
|  |       | Hours                         |          |  |   |  |     |  |  |
|  |       | ROP                           |          |  |   |  |     |  |  |
|  |       | WOB                           |          |  |   |  |     |  |  |
|  |       | Rot RPM                       |          |  |   |  |     |  |  |
|  |       | TFA                           | 1.32000  |  |   |  |     |  |  |
|  |       | MM RPM                        |          |  |   |  |     |  |  |
|  |       | Torque                        |          |  |   |  |     |  |  |
|  |       | Grade                         |          |  |   |  |     |  |  |
|  |       | Pump & Hydraulics Information |          |  |   |  |     |  |  |
|  |       | COMBO                         | Pump #1  |  |   |  |     |  |  |
|  |       | Type                          | BSF      |  |   |  |     |  |  |
|  |       | Liner                         | 6        |  |   |  |     |  |  |
|  |       | Stroke                        | 12       |  |   |  |     |  |  |
|  |       | SPM                           | 70       |  |   |  |     |  |  |
|  |       | %Eff                          | 95       |  |   |  |     |  |  |
|  |       | Gal/Strk                      | 4.158    |  |   |  |     |  |  |
|  |       | Bbl/Strk                      | 0.0990   |  |   |  |     |  |  |
|  |       | Gal/Min                       | 290.00   |  |   |  |     |  |  |
|  |       | Pressure                      | 2700     |  |   |  |     |  |  |
|  | AV DP | 228                           |          |  |   |  |     |  |  |
|  | AV DC | 297                           |          |  |   |  |     |  |  |





Tripping in hole 6000' bit depth

|  |       |             |
|--|-------|-------------|
|  | 4,222 | Diesel Left |
|--|-------|-------------|

|  |       |             |
|--|-------|-------------|
|  | 4,222 | Diesel Left |
|--|-------|-------------|

[illegible]







|                 |
|-----------------|
|                 |
|                 |
|                 |
| <b>Length</b>   |
| 1.00            |
| 26.58           |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 1,893.52        |
| 27.39           |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
| <b>2,031.84</b> |
|                 |
| 4/12/2017       |
| 5/1/2017        |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 5               |
| 2               |
| 18              |
|                 |
|                 |

[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 8844      | 89.0         | 35.47          |
| 9035      | 90.66        | 34.16          |
| 9223      | 90.75        | 34.16          |
| 9,413.00  | 88.02        | 34.68          |
| 9602      | 89.34        | 33.98          |
| 9756      | 89.16        | 35.74          |
| 9791      | 86.7         | 37.49          |
|           |              |                |

|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>   |    |
| REPORT # TIME   | <a href="#">10:30</a>  |    |
| Date            | 4/20/2017  |    |
| Temperature     | 114  |    |
| TVD             | 9815   |    |
| Weight          | 10.2   |    |
| Viscosity       | 41   |    |
| PV              | 15   |    |
| YP              | 8  |    |
| Gels            | 8  | 11 |
| Filtrate 30 min | 20   |    |
| HTHP            | 1  |    |
| Cake            | 1  |    |
| %Solids         | 10.3   |    |
| %Oil            | 83   |    |
| %Water          | 17   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 68000  |    |
|                 |  |    |
| Calcium         | 13200  |    |
| 600 RPM         |  |    |
| 300 RPM         |  |    |
| %LGS            |  |    |
| System bbls     |  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues,<br>Precision rig issues:#1 mud pump traction motor needs arr |    |

[illegible]

|  |          |                               |          |  |   |  |     |  |
|--|----------|-------------------------------|----------|--|---|--|-----|--|
|  |          |                               |          |  |   |  |     |  |
|  |          |                               |          |  |   |  |     |  |
|  |          | MT.                           | CURRENT  |  |   |  |     |  |
|  |          | Bit No                        | 7        |  |   |  |     |  |
|  |          | Size                          | 8.5      |  |   |  |     |  |
|  |          | Make                          | SEC      |  |   |  |     |  |
|  |          | Serial                        | 12860364 |  |   |  |     |  |
|  |          | Type                          | MM65D    |  |   |  |     |  |
|  |          | Nozzles                       | 6        |  | x |  | 22s |  |
|  |          | Depth Out                     | 9946     |  |   |  |     |  |
|  |          | Depth In                      | 8884     |  |   |  |     |  |
|  |          | Footage                       | 1062     |  |   |  |     |  |
|  |          | Hours                         | 18.5     |  |   |  |     |  |
|  |          | ROP                           | 57       |  |   |  |     |  |
|  |          | WOB                           | 45       |  |   |  |     |  |
|  |          | Rot RPM                       | 65       |  |   |  |     |  |
|  |          | TFA                           | 1.32000  |  |   |  |     |  |
|  |          | MM RPM                        | 145      |  |   |  |     |  |
|  |          | Torque                        | 7-9k     |  |   |  |     |  |
|  |          | Grade                         |          |  |   |  |     |  |
|  |          | Pump & Hydraulics Information |          |  |   |  |     |  |
|  |          | COMBO                         | Pump #1  |  |   |  |     |  |
|  |          | Type                          | BSF      |  |   |  |     |  |
|  |          | Liner                         | 6        |  |   |  |     |  |
|  |          | Stroke                        | 12       |  |   |  |     |  |
|  |          | SPM                           | 70       |  |   |  |     |  |
|  |          | %Eff                          | 95       |  |   |  |     |  |
|  |          | Gal/Strk                      | 4.158    |  |   |  |     |  |
|  |          | Bbl/Strk                      | 0.0990   |  |   |  |     |  |
|  |          | Gal/Min                       | 290.00   |  |   |  |     |  |
|  | Pressure | 2700                          |          |  |   |  |     |  |
|  | AV DP    | 228                           |          |  |   |  |     |  |
|  | AV DC    | 297                           |          |  |   |  |     |  |

Drilling Parameters: wob-35-28,pp-30000, gpm-580,tq-5-7k,diff-200-300, rpm-35+168dhm=203rpm

Spr#1-30spm=380,#2-30spm=360 @9189

13,753

Diesel Used

|  | +E / -W | Closure Dist |
|--|---------|--------------|
|  | 1163.23 |              |
|  | 1271.73 |              |
|  | 1376.68 |              |
|  | 1483.21 |              |
|  | 1589.79 |              |
|  | 1678.55 |              |
|  | 1700.13 |              |
|  |         |              |

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|  | 4,007 | Diesel Left |
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|  | 4,007 | Diesel Left |
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|                 |         |         |  |              |           |  |  |  |
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|                 |         |         |  |              |           |  |  |  |
|                 |         |         |  |              |           |  |  |  |
| nm              | OD      | ID      |  | Conn         |           |  |  |  |
| it              | 8.5     |         |  |              | 4 1/2 reg |  |  |  |
| ntor            | 7       |         |  |              | 4 1/2 xhb |  |  |  |
| npc             | 6 11/16 | 2 7/8   |  |              | 4 1/2xhb  |  |  |  |
| ixo             | 6 7/8   | 2 15/16 |  |              | 5 1/2 fhb |  |  |  |
| 1 dc            | 6 3/4   | 3 1/2   |  |              | 5 1/2hxb  |  |  |  |
| ixo             | 6 3/4   | 2 7/8   |  |              | 4 1/2xhb  |  |  |  |
| hfc             | 6 1/2   | 2 3/4   |  |              | 4 1/2ifb  |  |  |  |
| o               | 6 1/2   | 2 7/8   |  |              | ifb       |  |  |  |
| dp              | 5       | 4.3     |  |              | 4 1/2 if  |  |  |  |
| ator            | 6 5/8   | 3 1/2   |  |              | 4 1/2 if  |  |  |  |
|                 |         |         |  |              |           |  |  |  |
|                 |         |         |  |              |           |  |  |  |
|                 |         |         |  |              |           |  |  |  |
|                 |         |         |  |              |           |  |  |  |
|                 |         |         |  |              |           |  |  |  |
|                 |         |         |  |              |           |  |  |  |
| 18.5            |         |         |  | Total BHA    |           |  |  |  |
| Log Information |         |         |  | BOP Test     |           |  |  |  |
| 130.00          |         |         |  | Last Test    |           |  |  |  |
| 323             |         |         |  | Next Test    |           |  |  |  |
| n/a             |         |         |  | Test PSI     |           |  |  |  |
| 616             |         |         |  | Safety Topic |           |  |  |  |
| 3931psi         |         |         |  | power washer |           |  |  |  |
| 10.9            |         |         |  | Accident     |           |  |  |  |
| Lithology       |         |         |  | NONE         |           |  |  |  |
| 50%             |         |         |  | Personnel    |           |  |  |  |
|                 |         |         |  | Contractor   |           |  |  |  |
| 50%             |         |         |  | Service Co   |           |  |  |  |
| LOWER LEONARD   |         |         |  | Co-Rep       |           |  |  |  |
| 9830            |         |         |  | Totals       |           |  |  |  |



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| <b>Length</b>   |
| 1.00            |
| 26.58           |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 1,893.52        |
| 27.39           |
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| <b>2,031.84</b> |
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| 4/12/2017       |
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| 5000            |
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| From        | To    | Hrs.  |   |
|-------------|-------|-------|---|
| 06:00       | 06:45 | 0.75  | Drill Actual F/9946'__T/9967'=21'@ 84fph(C  |
| 06:45       | 08:15 | 1.50  | Drill Actual F/9987'__T/10055'= 68'@ 68fph  |
| 08:15       | 12:00 | 3.75  | Drill Actual F/10075'__T/10321'= 246'@ 65l  |
| 12:00       | 12:30 | 0.50  | Rig Service                                 |
| 12:30       | 13:00 | 0.50  | Drill Actual F/10321'__T/10348'= 27'@ 54fp  |
| 13:00       | 16:45 | 3.75  | Drill Actual F/10348'__T/10619'= 251'@ 77l  |
| 16:45       | 18:00 | 1.25  | Drill Actual F/10639'__T/10668'=29'@58'fph  |
| 18:00       | 19:15 | 1.25  | Drill Actual F/10683'__T/10699'=16'@64'fph  |
| 19:15       | 21:00 | 1.75  | Drill Actual F/10719'__T/10762'=43'@43fph   |
| 21:00       | 22:15 | 1.25  | Drill Actual F/10782'__T/10794'=12'@50fph   |
| 22:15       | 23:30 | 1.25  | Drill Actual F/10810'__T/10888'=78'@62fph   |
| 23:30       | 03:00 | 3.50  | Rig Repair ,Leak discovered on 2" steel lin |
| 03:00       | 03:30 | 0.50  | Rig Service                                 |
| 03:30       | 06:00 | 2.50  | Drill Actual F/10888'__T/11014'=126'@50fph  |
|             |       |       |   |
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|             |       |       |   |
|             |       |       |   |
|             |       |       |   |
|             |       |       |   |
| Total Hours |       | 24.00 | Diesel R                                    |

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 9886      | 85.74        | 37.58          |
| 10075     | 87.14        | 34.77          |
| 10263     | 89.08        | 33.72          |
| 10,451.00 | 88.55        | 33.28          |
| 10639     | 91.63        | 33.36          |
| 10828     | 86.44        | 35.3           |
|           |              |                |
|           |              |                |

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|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">10:30</a>                              |    |
| Date            | 4/21/2017  |    |
| Temperature     | 105  |    |
| TVD             | 10793  |    |
| Weight          | 10.2   |    |
| Viscosity       | 42   |    |
| PV              | 11   |    |
| YP              | 12   |    |
| Gels            | 9  | 12 |
| Filtrate 30 min | 20   |    |
| HTHP            | 1  |    |
| Cake            | 1  |    |
| %Solids         | 22   |    |
| %Oil            | 84   |    |
| %Water          | 16   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 33000  |    |
|                 |  |    |
| Calcium         | 20400  |    |
| 600 RPM         |  |    |
| 300 RPM         |  |    |
| %LGS            |  |    |
| System bbls     |  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |





[illegible]

|  |       |             |
|--|-------|-------------|
|  | 8,999 | Diesel Used |
|  |       |             |

|  | +E / -W | Closure Dist |
|--|---------|--------------|
|  | 1757.88 |              |
|  | 1869.97 |              |
|  | 1975.33 |              |
|  | 2079.23 |              |
|  | 2182.19 |              |
|  | 2289.32 |              |
|  |         |              |
|  |         |              |



[illegible]

[illegible]

|  |       |
|--|-------|
|  | 5,554 |
|--|-------|

|             |
|-------------|
| Diesel Left |
|-------------|

[illegible]

|                     |         |         |  |              |           |  |  |  |
|---------------------|---------|---------|--|--------------|-----------|--|--|--|
|                     |         |         |  |              |           |  |  |  |
|                     |         |         |  |              |           |  |  |  |
| Item                | OD      | ID      |  | Conn         |           |  |  |  |
| Bit                 | 8.5     |         |  |              | 4 1/2 reg |  |  |  |
| Motor               | 7       |         |  |              | 4 1/2 xhb |  |  |  |
| WPC                 | 6 11/16 | 2 7/8   |  |              | 4 1/2xhb  |  |  |  |
| WFO                 | 6 7/8   | 2 15/16 |  |              | 5 1/2 fhb |  |  |  |
| 1 dc                | 6 3/4   | 3 1/2   |  |              | 5 1/2hxb  |  |  |  |
| WFO                 | 6 3/4   | 2 7/8   |  |              | 4 1/2xhb  |  |  |  |
| WFC                 | 6 1/2   | 2 3/4   |  |              | 4 1/2ifb  |  |  |  |
| WFO                 | 6 1/2   | 2 7/8   |  |              | ifb       |  |  |  |
| WDP                 | 5       | 4.3     |  |              | 4 1/2 if  |  |  |  |
| Motor               | 6 5/8   | 3 1/2   |  |              | 4 1/2 if  |  |  |  |
|                     |         |         |  |              |           |  |  |  |
|                     |         |         |  |              |           |  |  |  |
|                     |         |         |  |              |           |  |  |  |
|                     |         |         |  |              |           |  |  |  |
|                     |         |         |  |              |           |  |  |  |
|                     |         |         |  |              |           |  |  |  |
| 37.5                |         |         |  | Total BHA    |           |  |  |  |
| BOP Log Information |         |         |  | BOP Test     |           |  |  |  |
| 163.00              |         |         |  | Last Test    |           |  |  |  |
| 365                 |         |         |  | Next Test    |           |  |  |  |
| n/a                 |         |         |  | Test PSI     |           |  |  |  |
| 486                 |         |         |  | Safety Topic |           |  |  |  |
| 4179                |         |         |  | target zero  |           |  |  |  |
| 10.39               |         |         |  | Accident     |           |  |  |  |
| Lithology           |         |         |  | NONE         |           |  |  |  |
| 70%                 |         |         |  | Personnel    |           |  |  |  |
|                     |         |         |  | Contractor   |           |  |  |  |
| 30%                 |         |         |  | Service Co   |           |  |  |  |
| LOWER LEONARD       |         |         |  | Co-Rep       |           |  |  |  |
| 10918               |         |         |  | Totals       |           |  |  |  |



|                 |
|-----------------|
|                 |
|                 |
|                 |
| <b>Length</b>   |
| 1.00            |
| 26.58           |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 1,893.52        |
| 27.39           |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
| <b>2,031.84</b> |
|                 |
| 4/12/2017       |
| 5/1/2017        |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 7               |
| 2               |
| 23              |
|                 |
|                 |

[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 10922     | 87.23        | 35.03          |
| 11112     | 87.49        | 34.95          |
| 11302     | 86.61        | 35.47          |
| 11,492.00 | 87.32        | 35.74          |
| 11683     | 90.48        | 34.95          |
| 11873     | 86.88        | 32.92          |
| 12,063.00 | 90.66        | 32.84          |
|           |              |                |

|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">10:30</a>                              |    |
| Date            | 4/22/2017  |    |
| Temperature     | 120  |    |
| TVD             | 10793  |    |
| Weight          | 10   |    |
| Viscosity       | 45   |    |
| PV              | 8  |    |
| YP              | 17   |    |
| Gels            | 9  | 12 |
| Filtrate 30 min | 23   |    |
| HTHP            | 3  |    |
| Cake            | 1  |    |
| %Solids         | 12   |    |
| %Oil            | 84   |    |
| %Water          | 16   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 3100   |    |
|                 |  |    |
| Calcium         | 20400  |    |
| 600 RPM         |  |    |
| 300 RPM         |  |    |
| %LGS            |  |    |
| System bbls     |  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |

[illegible]





[illegible]

|  |       |             |
|--|-------|-------------|
|  | 3,445 | Diesel Used |
|  |       |             |

|  | +E / -W | Closure Dist |
|--|---------|--------------|
|  | 2343.38 |              |
|  | 2451.48 |              |
|  | 2561.18 |              |
|  | 2671.25 |              |
|  | 2781.13 |              |
|  | 2886.92 |              |
|  |         |              |
|  |         |              |

|           |   |     |  |         |         |      |
|-----------|---|-----|--|---------|---------|------|
|           |   |     |  |         |         |      |
|           |   |     |  |         |         |      |
| Previous  |   |     |  |         | Qty     | Ite  |
| 6         |   |     |  |         | 1       | b    |
| 8.5       |   |     |  |         | 1       | mo   |
| pdc logic |   |     |  |         | 1       | nm   |
| 10046     |   |     |  |         | 1       | nm   |
| PLD613    |   |     |  |         | 1       | hds' |
| 6         | X | 22S |  |         | 1       | nm   |
| 8884      |   |     |  |         | 1       | nm   |
| 7274      |   |     |  |         | 1       | x    |
| 1610      |   |     |  |         | 60      | 5"   |
| 56.25     |   |     |  |         | 1       | agit |
| 29        |   |     |  |         |         |      |
| 40        |   |     |  |         |         |      |
| 35        |   |     |  |         |         |      |
| 1.32000   |   |     |  |         |         |      |
| 145       |   |     |  |         |         |      |
| 6         |   |     |  |         |         |      |
| 1/1       |   |     |  |         | BHA Hrs |      |
|           |   |     |  |         | Muc     |      |
| Pump #2   |   |     |  |         | Bg Gas  |      |
| BSF       |   |     |  | Con Gas |         |      |
| 6         |   |     |  | Tr Gas  |         |      |
| 12        |   |     |  | MAX     |         |      |
| 70        |   |     |  | Est PP  |         |      |
| 95        |   |     |  | ECD     |         |      |
| 4.158     |   |     |  |         |         |      |
| 0.0990    |   |     |  | %Shale  |         |      |
| 290.00    |   |     |  | %Sand   |         |      |
| 2700      |   |     |  | %Lime   |         |      |
| 152       |   |     |  | %Other  |         |      |
| 297       |   |     |  | DEPTH   |         |      |

rotate drilling at 12175

6,872

Diesel Left

Closure Dir

R + / L-

| Item                | OD      | ID      |  | Conn              |  |
|---------------------|---------|---------|--|-------------------|--|
| Bit                 | 8.5     |         |  | 4 1/2 reg         |  |
| Motor               | 7       |         |  | 4 1/2 xhb         |  |
| Upc                 | 6 11/16 | 2 7/8   |  | 4 1/2xhb          |  |
| Box                 | 6 7/8   | 2 15/16 |  | 5 1/2 fhb         |  |
| 1 dc                | 6 3/4   | 3 1/2   |  | 5 1/2hxb          |  |
| Box                 | 6 3/4   | 2 7/8   |  | 4 1/2xhb          |  |
| Upc                 | 6 1/2   | 2 3/4   |  | 4 1/2ifb          |  |
| Box                 | 6 1/2   | 2 7/8   |  | ifb               |  |
| dp                  | 5       | 4.3     |  | 4 1/2 if          |  |
| Motor               | 6 5/8   | 3 1/2   |  | 4 1/2 if          |  |
|                     |         |         |  |                   |  |
|                     |         |         |  |                   |  |
|                     |         |         |  |                   |  |
|                     |         |         |  |                   |  |
|                     |         |         |  |                   |  |
|                     |         |         |  |                   |  |
|                     |         |         |  |                   |  |
| 59.5                |         |         |  | Total BHA         |  |
| BOP Log Information |         |         |  | BOP Test          |  |
| 254.00              |         |         |  | Last Test         |  |
| 278                 |         |         |  | Next Test         |  |
| n/a                 |         |         |  | Test PSI          |  |
| 805                 |         |         |  | Safety Topic      |  |
| 4179                |         |         |  | Handling Tubulars |  |
| 10.39               |         |         |  | Accident          |  |
| Lithology           |         |         |  | NONE              |  |
| 90%                 |         |         |  | Personnel         |  |
|                     |         |         |  | Contractor        |  |
| 10%                 |         |         |  | Service Co        |  |
| LOWER LEONARD       |         |         |  | Co-Rep            |  |
| 12100               |         |         |  | Totals            |  |



|                 |
|-----------------|
|                 |
|                 |
|                 |
| <b>Length</b>   |
| 1.00            |
| 26.58           |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 1,893.52        |
| 27.39           |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
| <b>2,031.84</b> |
|                 |
| 4/12/2017       |
| 5/1/2017        |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 9               |
| 2               |
| 22              |
|                 |
|                 |

[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 10922     | 87.23        | 35.03          |
| 11112     | 87.49        | 34.95          |
| 11302     | 86.61        | 35.47          |
| 11,492.00 | 87.32        | 35.74          |
| 11683     | 90.48        | 34.95          |
| 11873     | 86.88        | 32.92          |
| 12,063.00 | 90.66        | 32.84          |
| 12442     | 88.90        | 35.39          |



|                 |  |    |  |       |  |
|-----------------|--|----|--|-------|--|
| 12537           | 89.34  |    |  | 35.12 |  |
| 12631           | 89.16  |    |  | 36.35 |  |
|                 | Current  |    |  |       |  |
| REPORT # TIME   | 10:30  |    |  |       |  |
| Date            | 4/23/2017  |    |  |       |  |
| Temperature     | 120  |    |  |       |  |
| TVD             | 12500  |    |  |       |  |
| Weight          | 10   |    |  |       |  |
| Viscosity       | 45   |    |  |       |  |
| PV              | 11   |    |  |       |  |
| YP              | 17   |    |  |       |  |
| Gels            | 14   | 19 |  |       |  |
| Filtrate 30 min | 28   |    |  |       |  |
| HTHP            | 3  |    |  |       |  |
| Cake            | 1  |    |  |       |  |
| %Solids         | 6.9  |    |  |       |  |
| %Oil            | 72.  |    |  |       |  |
| %Water          | 14   |    |  |       |  |
| %Sand           |  |    |  |       |  |
| PH              | 0  |    |  |       |  |
| MBT             |  |    |  |       |  |
| Pm              |  |    |  |       |  |
| Pf              |  |    |  |       |  |
| Mf              |  |    |  |       |  |
| Chloride        | 32500  |    |  |       |  |
|                 |  |    |  |       |  |
| Calcium         | 18200  |    |  |       |  |
| 600 RPM         | 39   |    |  |       |  |
| 300 RPM         | 28   |    |  |       |  |
| %LGS            | 6.99   |    |  |       |  |
| System bbls     |  |    |  |       |  |
| Mud Loss        |  |    |  |       |  |
| Cum Mud Loss    |  |    |  |       |  |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |  |       |  |

[illegible]

|         |  |                               |          |         |     |  |
|---------|--|-------------------------------|----------|---------|-----|--|
| 7786.54 |  | 5011.85                       |          | 3840.78 |     |  |
| 7788.65 |  | 5165.79                       |          | 3965.4  |     |  |
|         |  | MT.                           | CURRENT  |         |     |  |
|         |  | Bit No                        | 7        |         |     |  |
|         |  | Size                          | 8.5      |         |     |  |
|         |  | Make                          | SEC      |         |     |  |
|         |  | Serial                        | 12860364 |         |     |  |
|         |  | Type                          | MM65D    |         |     |  |
|         |  | Nozzles                       | 6        | x       | 22s |  |
|         |  | Depth Out                     | 12730    |         |     |  |
|         |  | Depth In                      | 8884     |         |     |  |
|         |  | Footage                       | 3846     |         |     |  |
|         |  | Hours                         | 75.7     |         |     |  |
|         |  | ROP                           | 51       |         |     |  |
|         |  | WOB                           | 28-35    |         |     |  |
|         |  | Rot RPM                       | 65       |         |     |  |
|         |  | TFA                           | 1.32000  |         |     |  |
|         |  | MM RPM                        | 156      |         |     |  |
|         |  | Torque                        | 10-14k   |         |     |  |
|         |  | Grade                         |          |         |     |  |
|         |  | Pump & Hydraulics Information |          |         |     |  |
|         |  |                               | COMBO    | Pump #1 |     |  |
|         |  | Type                          | BSF      |         |     |  |
|         |  | Liner                         | 6        |         |     |  |
|         |  | Stroke                        | 12       |         |     |  |
|         |  | SPM                           | 65       |         |     |  |
|         |  | %Eff                          | 95       |         |     |  |
|         |  | Gal/Strk                      | 4.158    |         |     |  |
|         |  | Bbl/Strk                      | 0.0990   |         |     |  |
|         |  | Gal/Min                       | 270.00   |         |     |  |
|         |  | Pressure                      | 3200     |         |     |  |
|         |  | AV DP                         | 280      |         |     |  |
|         |  | AV DC                         | 365      |         |     |  |

[illegible]

|  |        |             |
|--|--------|-------------|
|  | 10,973 | Diesel Used |
|  |        |             |
|  |        |             |

|  | +E / -W | Closure Dist |
|--|---------|--------------|
|  | 2343.38 |              |
|  | 2451.48 |              |
|  | 2561.18 |              |
|  | 2671.25 |              |
|  | 2781.13 |              |
|  | 2886.92 |              |
|  | 2990.09 |              |
|  | 3201.47 |              |

|                 |   |         |  |                |            |
|-----------------|---|---------|--|----------------|------------|
|                 |   | 3256.29 |  |                |            |
|                 |   | 3346.75 |  |                |            |
| <b>Previous</b> |   |         |  | <b>Qty</b>     | <b>Ite</b> |
| 6               |   |         |  | 1              | b          |
| 8.5             |   |         |  | 1              | mo         |
| pdc logic       |   |         |  | 1              | nm         |
| 10046           |   |         |  | 1              | nm         |
| PLD613          |   |         |  | 1              | hds        |
| 6               | X | 22S     |  | 1              | nm         |
| 8884            |   |         |  | 1              | nm         |
| 7274            |   |         |  | 1              | x          |
| 1610            |   |         |  | 60             | 5"         |
| 56.25           |   |         |  | 1              | agit       |
| 29              |   |         |  |                |            |
| 40              |   |         |  |                |            |
| 35              |   |         |  |                |            |
| 1.32000         |   |         |  |                |            |
| 145             |   |         |  |                |            |
| 6               |   |         |  |                |            |
| 1/1             |   |         |  |                |            |
|                 |   |         |  | <b>BHA Hrs</b> |            |
|                 |   |         |  | <b>Muc</b>     |            |
| <b>Pump #2</b>  |   |         |  | <b>Bg Gas</b>  |            |
| BSF             |   |         |  | <b>Con Gas</b> |            |
| 6               |   |         |  | <b>Tr Gas</b>  |            |
| 12              |   |         |  | <b>MAX</b>     |            |
| 65              |   |         |  | <b>Est PP</b>  |            |
| 95              |   |         |  | <b>ECD</b>     |            |
| 4.158           |   |         |  |                |            |
| 0.0990          |   |         |  | <b>%Shale</b>  |            |
| 270.00          |   |         |  | <b>%Sand</b>   |            |
| 3200            |   |         |  | <b>%Lime</b>   |            |
| 280             |   |         |  | <b>%Other</b>  |            |
| 365             |   |         |  | <b>DEPTH</b>   |            |

TOH for Bit #7 @6715'

6,006

Diesel Left

*Closure Dir*

*R + / L-*







|                 |
|-----------------|
| 0.54            |
| 1.32            |
| <b>Length</b>   |
| 1.00            |
| 26.58           |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 1,893.52        |
| 27.39           |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
| <b>2,031.84</b> |
|                 |
| 4/12/2017       |
| 5/1/2017        |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 15              |
| 2               |
| 28              |
|                 |
|                 |

| From        | To    | Hrs.  |  |
|-------------|-------|-------|--|
| 06:00       | 10:30 | 4.50  | Trip out of hole, LD dhm,bit & MWD probe,    |
| 10:30       | 11:00 | 0.50  | Rig Service & Clean floor                    |
| 11:00       |       |       | PU & MU New bit-Sec MM65D, DHM w/ne          |
|             | 13:00 | 2.00  | install 8" nortrack stab (ADS) on top of DHM |
| 13:00       | 13:15 | 0.25  | Trip in hole T/300'                          |
| 13:15       | 13:30 | 0.25  | Install RCD                                  |
| 13:30       | 14:30 | 1.00  | Trip in hole T/2800'                         |
| 14:30       | 16:00 | 1.50  | Change out Agitator and pressure test, 70s   |
| 16:00       | 18:00 | 2.00  | Trip in hole T/5586'                         |
| 18:00       | 18:30 | 0.50  | Trip in hole T/5981'                         |
| 18:30       | 19:00 | 0.50  | Rig Service                                  |
| 19:00       | 19:30 | 0.50  | Trip in hole T/12602'                        |
| 19:30       | 19:45 | 0.25  | Fill pipe, Test MWD, Test good               |
| 19:45       | 20:15 | 0.50  | Trip in hole T/7902', tag up with 12 WOB, k  |
| 20:15       | 21:15 | 1.00  | Wash and ream F/7902' T/8533' , 530 gpm      |
| 21:15       | 23:00 | 1.75  | Trip in hole T/12602'                        |
| 23:00       | 23:15 | 0.25  | Fill pipe, Wash and Ream F/12602' T/1273     |
| 23:15       | 00:30 | 1.25  | Circulate 1 bottoms up, 6080stks. @3800st    |
| 00:30       | 03:00 | 2.50  | Drill Actual F/12730'__T/12855'=125'@83fp    |
| 03:00       | 05:30 | 2.50  | Drill Actual F/12875'__T/12982'=107'@86fp    |
| 05:30       | 06:00 | 0.50  | Drill Actual F/13003'__T/13077'=74'@148fp    |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
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|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
|             |       |       |  |
| Total Hours |       | 24.00 | Diesel R                                     |

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 12631     | 89.16        | 36.35          |
| 12725     | 88.37        | 36.97          |
| 12820     | 89.69        | 37.14          |
| 12915     | 89.08        | 37.76          |
|           |              |                |
|           |              |                |
|           |              |                |
|           |              |                |

|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">2:30</a>                               |    |
| Date            | 4/25/2017  |    |
| Temperature     | 100  |    |
| TVD             | 12860  |    |
| Weight          | 10.05  |    |
| Viscosity       | 46   |    |
| PV              | 14   |    |
| YP              | 12   |    |
| Gels            | 15   | 20 |
| Filtrate 30 min | 26   |    |
| HTHP            | 3  |    |
| Cake            | 1  |    |
| %Solids         | 8.6  |    |
| %Oil            | 68   |    |
| %Water          | 16   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 33000  |    |
|                 |  |    |
| Calcium         | 21600  |    |
| 600 RPM         | 40   |    |
| 300 RPM         | 26   |    |
| %LGS            | 8.62   |    |
| System bbls     |  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |



|  |  |  |                |
|--|--|--|----------------|
|  |  |  |                |
|  |  |  |                |
|  |  |  |                |
|  |  | <b>MT.</b>                               | <b>CURRENT</b> |
|  |  | Bit No                                   | 8              |
|  |  | Size                                     | 8.5            |
|  |  | Make                                     | SEC            |
|  |  | Serial                                   | 12862616       |
|  |  | Type                                     | MM65D          |
|  |  | Nozzles                                  | 6 x 22s        |
|  |  | Depth Out                                |                |
|  |  | Depth In                                 | 12730          |
|  |  | Footage                                  | 347            |
|  |  | Hours                                    | 5.75           |
|  |  | ROP                                      | 60             |
|  |  | WOB                                      | 25-28          |
|  |  | Rot RPM                                  | 60             |
|  |  | TFA                                      | 1.32000        |
|  |  | MM RPM                                   | 156            |
|  |  | Torque                                   | 9-12K          |
|  |  | Grade                                    |                |
|  |  | <b>Pump &amp; Hydraulics Information</b> |                |
|  |  | <b>COMBO</b>                             | <b>Pump #1</b> |
|  |  | Type                                     | BSF            |
|  |  | Liner                                    | 6              |
|  |  | Stroke                                   | 12             |
|  |  | SPM                                      | 62             |
|  |  | %Eff                                     | 95             |
|  |  | Gal/Strk                                 | 4.158          |
|  |  | Bbl/Strk                                 | 0.0990         |
|  |  | Gal/Min                                  | 270.00         |
|  |  | Pressure                                 | 3480           |
|  |  | AV DP                                    | 280            |
|  |  | AV DC                                    | 365            |

[illegible]

|  |        |             |
|--|--------|-------------|
|  | 12,167 | Diesel Used |
|--|--------|-------------|

|  | +E / -W | Closure Dist |
|--|---------|--------------|
|  | 3346.75 |              |
|  | 3407.58 |              |
|  | 3424.53 |              |
|  | 3482.3  |              |
|  |         |              |
|  |         |              |
|  |         |              |
|  |         |              |

|          |   |         |          |
|----------|---|---------|----------|
|          |   |         |          |
|          |   |         |          |
| Previous |   | Qty     | Ite      |
| 7        |   | 1       | b        |
| 8.5      |   | 1       | mo       |
| SEC      |   | 1       | norl     |
| 12860364 |   | 1       | nm       |
| MM65D    |   | 1       | nm       |
| 6        | x | 22s     |          |
| 12730    |   | 1       | nm       |
| 8884     |   | 1       | nm       |
| 3846     |   | 1       | x        |
| 75.7     |   | 78      | 5"       |
| 51       |   | 1       | agitator |
| 28-35    |   |         |          |
| 65       |   |         |          |
| 1.32000  |   |         |          |
| 156      |   |         |          |
| 10-14k   |   |         |          |
| 1/2      |   | BHA Hrs |          |
|          |   | Muc     |          |
| Pump #2  |   | Bg Gas  |          |
| BSF      |   | Con Gas |          |
| 6        |   | Tr Gas  |          |
| 12       |   | MAX     |          |
| 62       |   | Est PP  |          |
| 95       |   | ECD     |          |
| 4.158    |   |         |          |
| 0.0990   |   | %Shale  |          |
| 270.00   |   | %Sand   |          |
| 3480     |   | %Lime   |          |
| 280      |   | %Other  |          |
| 365      |   | DEPTH   |          |





| Item                | OD      | ID      |  | Conn           |           |
|---------------------|---------|---------|--|----------------|-----------|
| Bit                 | 8.5     | 3       |  |                | 4 1/2 reg |
| Motor               | 7       |         |  |                | 4 1/2 xhb |
| Trac                | 6 3/4   | 2 7/8   |  |                | 4 1/2 xhb |
| IPC                 | 6 11/16 | 2 7/8   |  |                | 4 1/2xhb  |
| IXO                 | 6 7/8   | 2 15/16 |  |                | 5 1/2 fhb |
| 1 dc                | 6 3/4   | 3 1/2   |  |                | 5 1/2hxb  |
| IXO                 | 6 3/4   | 2 7/8   |  |                | 4 1/2xhb  |
| IFC                 | 6 1/2   | 2 3/4   |  |                | 4 1/2ifb  |
| O                   | 6 1/2   | 2 7/8   |  |                | ifb       |
| DP                  | 5       | 4.3     |  |                | 4 1/2 if  |
|                     | 6 5/8   | 3 1/2   |  |                | 4 1/2 if  |
|                     |         |         |  |                |           |
|                     |         |         |  |                |           |
|                     |         |         |  |                |           |
|                     |         |         |  |                |           |
|                     |         |         |  |                |           |
| 5.75                |         |         |  | Total BHA      |           |
| BOP Log Information |         |         |  | BOP Test       |           |
| 230.00              |         |         |  | Last Test      |           |
| 299                 |         |         |  | Next Test      |           |
|                     |         |         |  | Test PSI       |           |
| 390                 |         |         |  | Safety Topic   |           |
| 3890                |         |         |  | Handling Tools |           |
| 10.19               |         |         |  | Accident       |           |
| Lithology           |         |         |  | NONE           |           |
| 80%                 |         |         |  | Personnel      |           |
|                     |         |         |  | Contractor     |           |
| 20%                 |         |         |  | Service Co     |           |
| Lower Leonard       |         |         |  | Co-Rep         |           |
| 12860               |         |         |  | Totals         |           |



|                 |
|-----------------|
|                 |
|                 |
|                 |
| <b>Length</b>   |
| 1.00            |
| 28.59           |
| 4.89            |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 2,462.79        |
| 26.28           |
|                 |
|                 |
|                 |
|                 |
|                 |
| <b>2,606.90</b> |
|                 |
| 4/12/2017       |
| 5/1/2017        |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 2               |
| 2               |
| 15              |
|                 |
|                 |

| From               | To    | Hrs.         |  |
|--------------------|-------|--------------|--|
| 06:00              | 06:30 | 0.50         | Drill Actual F/13077'_T/13085'=8'@ 16fph         |
| 06:30              |       |              | Lay down 2 jnts of drill pipe,after connection   |
|                    | 06:45 | 0.25         | and replace with 2jnts off of pipe racks         |
| 06:45              | 08:15 | 1.50         | Slide F/13085'_T/13105'=20'@ 16fph(1.25hr)       |
| 08:15              | 12:00 | 3.75         | Slide F/13141'_T/13161'=20'@ 20fph(1.0hr)        |
| 12:00              | 13:30 | 1.50         | Slide F/13375'_T/13395'=20'@ 20fph(1.0hr)        |
| 13:30              | 16:15 | 2.75         | Slide F/13425'_T/13445'=20'@ 26fph(.75hr)        |
| 16:15              | 16:45 | 0.50         | Rig Service                                      |
| 16:45              | 18:00 | 1.25         | Drill Actual F/13645'_T/13750'= 105'@84fph       |
| 18:00              | 19:15 | 1.25         | Slide F/13750'_T/13773=23'@ 23fph(1hr)           |
| 19:15              | 20:15 | 1.00         | NPT ;Driller Unfamiliar with controls, took 1 hr |
| 20:15              | 21:00 | 0.75         | NPT: Establish Circulation , Rack back 1 st      |
| 21:00              | 06:00 | 9.00         | NPT:WO Precision, Circulate with 1 pump 6        |
|                    |       |              | Found bad Module on Pump #1,(#1 Suction          |
|                    |       |              | WO Module  |
|                    |       |              | Note; Morning Tour crew, shorthanded1, an        |
|                    |       |              |  |
|                    |       |              |  |
|                    |       |              |  |
|                    |       |              |  |
|                    |       |              |  |
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|                    |       |              |  |
|                    |       |              |  |
|                    |       |              |  |
|                    |       |              |  |
|                    |       |              |  |
|                    |       |              |  |
| <b>Total Hours</b> |       | <b>24.00</b> | <b>Diesel R</b>                                  |

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 13485     | 86.97        | 36.32          |
| 13579     | 87.05        | 36             |
| 13674     | 88.64        | 36.09          |
|           |              |                |
|           |              |                |
|           |              |                |
|           |              |                |
|           |              |                |

|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">15:30</a>                              |    |
| Date            | 4/25/2017  |    |
| Temperature     | 110  |    |
| TVD             | 13455  |    |
| Weight          | 10.05  |    |
| Viscosity       | 47   |    |
| PV              | 15   |    |
| YP              | 16   |    |
| Gels            | 14   | 24 |
| Filtrate 30 min | 27   |    |
| HTHP            | 3  |    |
| Cake            | 1  |    |
| %Solids         | 6.2  |    |
| %Oil            | 68   |    |
| %Water          | 16   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 37500  |    |
|                 |  |    |
| Calcium         | 24000  |    |
| 600 RPM         | 46   |    |
| 300 RPM         | 31   |    |
| %LGS            | 6.14   |    |
| System bbls     |  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |









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|                 |         |         |  |                   |           |
|-----------------|---------|---------|--|-------------------|-----------|
|                 |         |         |  |                   |           |
|                 |         |         |  |                   |           |
| nm              | OD      | ID      |  | Conn              |           |
| it              | 8.5     | 3       |  |                   | 4 1/2 reg |
| tor             | 7       |         |  |                   | 4 1/2 xhb |
| trac            | 6 3/4   | 2 7/8   |  |                   | 4 1/2 xhb |
| ipc             | 6 11/16 | 2 7/8   |  |                   | 4 1/2xhb  |
| ixo             | 6 7/8   | 2 15/16 |  |                   | 5 1/2 fhb |
| 1 dc            | 6 3/4   | 3 1/2   |  |                   | 5 1/2hxb  |
| ixo             | 6 3/4   | 2 7/8   |  |                   | 4 1/2xhb  |
| rfc             | 6 1/2   | 2 3/4   |  |                   | 4 1/2ifb  |
| o               | 6 1/2   | 2 7/8   |  |                   | ifb       |
| dp              | 5       | 4.3     |  |                   | 4 1/2 if  |
|                 | 6 5/8   | 3 1/2   |  |                   | 4 1/2 if  |
|                 |         |         |  |                   |           |
|                 |         |         |  |                   |           |
|                 |         |         |  |                   |           |
|                 |         |         |  |                   |           |
|                 |         |         |  |                   |           |
| 18.75           |         |         |  | Total BHA         |           |
| Log Information |         |         |  | BOP Test          |           |
| 190.00          |         |         |  | Last Test         |           |
| 500             |         |         |  | Next Test         |           |
|                 |         |         |  | Test PSI          |           |
| 500             |         |         |  | Safety Topic      |           |
| 3890            |         |         |  | Lock Out- Tag Out |           |
| 10.39           |         |         |  | Accident          |           |
| Lithology       |         |         |  | NONE              |           |
| 90%             |         |         |  | Personnel         |           |
|                 |         |         |  | Contractor        |           |
| 10%             |         |         |  | Service Co        |           |
| Lower Leonard   |         |         |  | Co-Rep            |           |
| 13820           |         |         |  | Totals            |           |



|                 |
|-----------------|
|                 |
|                 |
|                 |
| <b>Length</b>   |
| 1.00            |
| 28.59           |
| 4.89            |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 2,462.79        |
| 26.28           |
|                 |
|                 |
|                 |
|                 |
|                 |
| <b>2,606.90</b> |
|                 |
| 4/12/2017       |
| 5/1/2017        |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 9               |
| 2               |
| 22              |
|                 |
|                 |

[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 13769     | 88.29        | 36.44          |
| 13864     | 87.93        | 37.85          |
| 13960     | 87.93        | 37.49          |
| 14,054.00 | 87.41        | 34.33          |
| 14149     | 90.48        | 35.03          |
| 14244     | 89.96        | 33.8           |
| 14,339.00 | 89.08        | 32.05          |
| 14433     | 87.85        | 32.57          |

|                 |   |  |
|-----------------|---|--|
|                 |   |  |
|                 |   |  |
|                 | <b>Current</b>  |  |
| REPORT # TIME   | <a href="#">3:30</a>                                      |  |
| Date            | 4/27/2017   |  |
| Temperature     | 115   |  |
| TVD             | 14406   |  |
| Weight          | 10.05   |  |
| Viscosity       | 48  |  |
| PV              | 14  |  |
| YP              | 16  |  |
| Gels            | 17  |  |
| Filtrate 30 min | 26  |  |
| HTHP            | 4   |  |
| Cake            | 1   |  |
| %Solids         | 5.9   |  |
| %Oil            | 68  |  |
| %Water          | 16  |  |
| %Sand           |   |  |
| PH              | 0   |  |
| MBT             |   |  |
| Pm              |   |  |
| Pf              |   |  |
| Mf              |   |  |
| Chloride        | 32500   |  |
|                 |   |  |
| Calcium         | 16800   |  |
| 600 RPM         | 44  |  |
| 300 RPM         | 30  |  |
| %LGS            | 5.9   |  |
| System bbls     |   |  |
| Mud Loss        |   |  |
| Cum Mud Loss    |   |  |
| Safety Notes    | No accidents, No incidents, Environmental issues while pu |  |

[illegible]



umping slug to trip out of hole night driller was on pits manipulating valves, opened suction line to #1 pump

Drilling Parameters: wob 20-28,pp-3700, gpm-540tq-9-11k,diff-300-500 rpm-60+157dhm=217rpm

[Spr#1-30spm=620#2-30spm=690@14406'](#)

12,658

Diesel Used

|  | +E / -W | Closure Dist |
|--|---------|--------------|
|  | 3987.76 |              |
|  | 4045.1  |              |
|  | 4103.72 |              |
|  | 4158.8  |              |
|  | 4212.84 |              |
|  | 4263.68 |              |
|  | 4315.32 |              |
|  | 4365.54 |              |

spilling 10bbl OBM on ground. Spill was contained & cleaned up.

Drig Lateral @14570'

4,220

Diesel Left

Closure Dir

R + / L-

| Item                | OD      | ID      |  | Conn             |           |  |  |  |
|---------------------|---------|---------|--|------------------|-----------|--|--|--|
| Bit                 | 8.5     | 3       |  |                  | 4 1/2 reg |  |  |  |
| Motor               | 7       |         |  |                  | 4 1/2 xhb |  |  |  |
| Trac                | 6 3/4   | 2 7/8   |  |                  | 4 1/2 xhb |  |  |  |
| IPC                 | 6 11/16 | 2 7/8   |  |                  | 4 1/2xhb  |  |  |  |
| IXO                 | 6 7/8   | 2 15/16 |  |                  | 5 1/2 fhb |  |  |  |
| 1 dc                | 6 3/4   | 3 1/2   |  |                  | 5 1/2hxb  |  |  |  |
| IXO                 | 6 3/4   | 2 7/8   |  |                  | 4 1/2xhb  |  |  |  |
| IFC                 | 6 1/2   | 2 3/4   |  |                  | 4 1/2ifb  |  |  |  |
| O                   | 6 1/2   | 2 7/8   |  |                  | ifb       |  |  |  |
| DP                  | 5       | 4.3     |  |                  | 4 1/2 if  |  |  |  |
|                     | 6 5/8   | 3 1/2   |  |                  | 4 1/2 if  |  |  |  |
|                     |         |         |  |                  |           |  |  |  |
|                     |         |         |  |                  |           |  |  |  |
|                     |         |         |  |                  |           |  |  |  |
|                     |         |         |  |                  |           |  |  |  |
|                     |         |         |  |                  |           |  |  |  |
| 32.25               |         |         |  | Total BHA        |           |  |  |  |
| BOP Log Information |         |         |  | BOP Test         |           |  |  |  |
| 409.00              |         |         |  | Last Test        |           |  |  |  |
| 114                 |         |         |  | Next Test        |           |  |  |  |
| 1053                |         |         |  | Test PSI         |           |  |  |  |
| 409                 |         |         |  | Safety Topic     |           |  |  |  |
| 3890                |         |         |  | Working on Pumps |           |  |  |  |
| 10.39               |         |         |  | Accident         |           |  |  |  |
| Lithology           |         |         |  | NONE             |           |  |  |  |
| 60%                 |         |         |  | Personnel        |           |  |  |  |
|                     |         |         |  | Contractor       |           |  |  |  |
| 40%                 |         |         |  | Service Co       |           |  |  |  |
| Lower Leonard       |         |         |  | Co-Rep           |           |  |  |  |
| 14440               |         |         |  | Totals           |           |  |  |  |



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| From        | To    | Hrs.  |  |
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| 06:00       | 08:45 | 2.75  | Drill Actual F/14570'_T/14695'=125'@ 83fph   |
| 08:45       | 10:00 | 1.25  | Drill Actual F/14715'_T/14753'= 38' @ 152fph |
| 10:00       | 10:15 | 0.25  | Drill Actual F/14773'_T/14782'= 9'@ 36fph    |
| 10:15       | 10:45 | 0.50  | Rig Service                                  |
| 10:45       | 12:00 | 1.25  | Drill Actual F/14782'_T/14802'= 20' @ 40fph  |
| 12:00       | 14:30 | 2.50  | Drill Actual F/14820'_T/14972'= 152' @ 60fph |
| 14:30       | 15:00 | 0.50  | NPT: Attempt to sync up MWD, Success or      |
| 15:00       | 16:00 | 1.00  | Drill Actual F/14972'_T/15066'= 94' @ 94fph  |
| 16:00       | 16:30 | 0.50  | NPT: Attempt to sync up MWD, Success or      |
| 16:30       | 17:30 | 1.00  | Drill Actual F/15066'_T/15162'= 96' @ 94fph  |
| 17:30       | 18:15 | 0.75  | Change out Rotating Head Assembly            |
| 18:15       | 21:00 | 2.75  | Drill Actual F/15162'_T/15256'= 94' @ 63fph  |
| 21:00       | 22:30 | 1.50  | Drill Actual F/15279'_T/15320'= 41' @ 82fph  |
| 22:30       | 23:30 | 1.00  | Drill Actual F/15340'_T/15364'= 24' @ 96fph  |
| 23:30       | 24:00 | 0.50  | Rig Service                                  |
| 24:00       | 02:00 | 2.00  | Slide F/15376'_T/15384=8' @16fph(1hr)        |
| 02:00       | 06:00 | 4.00  | Slide F/15457'_T/15477=20' @16fph(1.25h      |
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| Total Hours |       | 24.00 | Diesel R                                     |

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 15,094.00 | 89.34        | 35.03          |
| 15189     | 93.12        | 36.44          |
| 15284     | 91.89        | 35.56          |
| 15379     | 89.25        | 36.79          |
| 15474     | 88.02        | 36.26          |
| 15568     | 88.37        | 35.74          |
|           |              |                |
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|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">3:30</a>                               |    |
| Date            | 4/28/2017  |    |
| Temperature     | 129  |    |
| TVD             | 15480  |    |
| Weight          | 10.05  |    |
| Viscosity       | 48   |    |
| PV              | 12   |    |
| YP              | 18   |    |
| Gels            | 16   | 24 |
| Filtrate 30 min | 25   |    |
| HTHP            | 4  |    |
| Cake            | 1  |    |
| %Solids         | 6.   |    |
| %Oil            | 68   |    |
| %Water          | 16   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 33000  |    |
|                 |  |    |
| Calcium         | 19200  |    |
| 600 RPM         | 40   |    |
| 300 RPM         | 28   |    |
| %LGS            | 5.98   |    |
| System bbls     |  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |

[illegible]





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| Previous |   | Qty     | Ite      |
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| SEC      |   | 1       | norl     |
| 12860364 |   | 1       | nm       |
| MM65D    |   | 1       | nm       |
| 6        | x | 22s     |          |
| 12730    |   | 1       | nm       |
| 8884     |   | 1       | nm       |
| 3846     |   | 1       | x        |
| 75.7     |   | 78      | 5"       |
| 51       |   | 1       | agitator |
| 28-35    |   |         |          |
| 65       |   |         |          |
| 2.22000  |   |         |          |
| 156      |   |         |          |
| 10-14k   |   |         |          |
| 1/2      |   |         |          |
|          |   | BHA Hrs |          |
|          |   | Muc     |          |
| Pump #2  |   | Bg Gas  |          |
| BSF      |   | Con Gas |          |
| 6        |   | Tr Gas  |          |
| 12       |   | MAX     |          |
| 62       |   | Est PP  |          |
| 95       |   | ECD     |          |
| 4.158    |   |         |          |
| 0.0990   |   | %Shale  |          |
| 270.00   |   | %Sand   |          |
| 3790     |   | %Lime   |          |
| 263      |   | %Other  |          |
| 342      |   | DEPTH   |          |

Drlg. Lateral @15730'

6,858

Diesel Left

Closure Dir

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| nm              | OD      |  | ID      |  | Conn          |           |          |  |
| it              | 8.5     |  | 3       |  |               | 4 1/2 reg |          |  |
| vtr             | 7       |  |         |  |               | 4 1/2 xhb |          |  |
| trac            | 6 3/4   |  | 2 7/8   |  |               | 4 1/2 xhb |          |  |
| ipc             | 6 11/16 |  | 2 7/8   |  |               | 4 1/2xhb  |          |  |
| ixo             | 6 7/8   |  | 2 15/16 |  |               | 5 1/2 fhb |          |  |
| 1 dc            | 6 3/4   |  | 3 1/2   |  |               | 5 1/2hxb  |          |  |
| ixo             | 6 3/4   |  | 2 7/8   |  |               | 4 1/2xhb  |          |  |
| nfc             | 6 1/2   |  | 2 3/4   |  |               | 4 1/2ifb  |          |  |
| o               | 6 1/2   |  | 2 7/8   |  |               | ifb       |          |  |
| dp              | 5       |  | 4.3     |  |               |           | 4 1/2 if |  |
|                 | 6 5/8   |  | 3 1/2   |  |               |           | 4 1/2 if |  |
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| 53.75           |         |  |         |  | Total BHA     |           |          |  |
| Log Information |         |  |         |  | BOP Test      |           |          |  |
| 313.00          |         |  |         |  | Last Test     |           |          |  |
| 235             |         |  |         |  | Next Test     |           |          |  |
| N/A             |         |  |         |  | Test PSI      |           |          |  |
| 313             |         |  |         |  | Safety Topic  |           |          |  |
| 3890            |         |  |         |  | House Keeping |           |          |  |
| 10.44           |         |  |         |  | Accident      |           |          |  |
| Lithology       |         |  |         |  | NONE          |           |          |  |
| 90%             |         |  |         |  | Personnel     |           |          |  |
|                 |         |  |         |  | Contractor    |           |          |  |
| 10%             |         |  |         |  | Service Co    |           |          |  |
| Lower Leonard   |         |  |         |  | Co-Rep        |           |          |  |
| 15460           |         |  |         |  | Totals        |           |          |  |





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| From        | To    | Hrs.  |  |
|-------------|-------|-------|--|
| 06:00       | 08:00 | 2.00  | Drill Actual F/15730'_T/15740'= 10'@ 20fph       |
| 08:00       | 08:30 | 0.50  | Drill Actual F/15760'_T/15822'= 62' @ 124fph     |
| 08:30       | 09:30 | 1.00  | Down Link MWD, moved pulse width from 1          |
| 09:30       | 12:15 | 2.75  | Drill Actual F/15822'_T/15928'= 106' @ 106fph    |
| 12:15       | 14:45 | 2.50  | Drill Actual F/15952'_T/15966'= 14' @ 56fph      |
| 14:45       | 17:00 | 2.25  | Drill Actual F/16006'_T/16108'= 102' @ 45fph     |
| 17:00       | 17:30 | 0.50  | Rig Service                                      |
| 17:30       | 18:00 | 0.50  | Drill Actual F/16108'_T/16120'= 12' @ 56fph      |
| 18:00       | 21:30 | 3.50  | Drill Actual F/16120'_T/16205'= 85' @ 42fph      |
| 21:30       | 22:00 | 0.50  | Drill Actual F/16230'_T/16261'= 31' @ 62fph      |
| 22:00       | 22:30 | 0.50  | Drlg. Break , P/U off Btm. , Shut pumps down     |
| 22:30       | 23:00 | 0.50  | Rig Service                                      |
| 23:00       | 23:45 | 0.75  | Drill Actual F/16261'_T/16336'= 85' @ 42fph      |
| 23:45       | 24:00 | 0.25  | Circulate Inspect Derrick Board, Top Drive ,     |
|             |       |       | Notify DS. ,Precision Superintendent, Toolpusher |
|             |       |       | safe to resume drilling. Investigation Ongoing   |
| 24:00       | 02:45 | 2.75  | Drill Actual F/16336'_T/16394'= 58' @ 42fph      |
| 02:45       | 06:00 | 3.25  | Drill Actual F/16417'_T/16583'= 166' @ 51fph     |
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| Total Hours |       | 24.00 | Diesel R   |

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
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| 15,568.00 | 89.16        | 35.47          |
| 15758     | 88.55        | 35.65          |
| 15853     | 89.87        | 36.79          |
| 15948     | 91.63        | 37.06          |
| 16043     | 88.46        | 35.12          |
| 16138     | 89.16        | 34.59          |
| 16,232.00 | 87.23        | 34.51          |
| 16327     | 88.90        | 35.39          |

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| 16421 | 86.26 |  |  | 34.77 |  |  |
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|   |                                     |
|---|-------------------------------------|
|   | <i>Present Operation @ 0600 Hrs</i> |
|   |                                     |
|   |                                     |
| i (0.50hr)___Slide F/15740'_T/15760=20' @ 13fph(1.50hr)               |                                     |
| oh (0.50hr)   |                                     |
| l.0sec to 1.5sec., to increase pulse amplitude in tool, due to depth. |                                     |
| fph (1.0hr)___ Slide F/15928'_T/15952=24' @ 13fph(1.75hr)             |                                     |
| i (0.25hr)___Slide F/15966'_T/16006= 40' @ 17fph(2.25hr)              |                                     |
| oh (2.25hr)   |                                     |
|   |                                     |
| i (0.25hr)  |                                     |
| i (2hr)___Slide F/16205'_T/16230'= 25' @ 17fph(1.5hr)                 |                                     |
| i (.50hr)   |                                     |
| wn, Flow Check, No Flow, Well Static                                  |                                     |
|   |                                     |
| i (.75hr)   |                                     |
| ,Elevators; (Driller hit board with elevators on connection)          |                                     |
| usher, After Inspecting equipment , Precision Personnel deemed equip. |                                     |
| ing, Precision Superintendant and Precision HES on location           |                                     |
| i (1hr)___Slide F/16394'_T/16417'= 23' @ 17fph(1.75hr)                |                                     |
| oh (3.25hr)   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
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|   |                                     |
|   |                                     |
|   |                                     |
|   |                                     |
| Received  | Diesel Total                        |
| 7,200   |                                     |

|         |          |                               |          |         |     |  |
|---------|----------|-------------------------------|----------|---------|-----|--|
| 7859.37 |          | 8892.59                       |          | 7005.58 |     |  |
|         |          |                               |          |         |     |  |
|         |          | MT.                           | CURRENT  |         |     |  |
|         |          | Bit No                        | 8        |         |     |  |
|         |          | Size                          | 8.5      |         |     |  |
|         |          | Make                          | SEC      |         |     |  |
|         |          | Serial                        | 12862616 |         |     |  |
|         |          | Type                          | MM65D    |         |     |  |
|         |          | Nozzles                       | 6        | x       | 22s |  |
|         |          | Depth Out                     |          |         |     |  |
|         |          | Depth In                      | 12730    |         |     |  |
|         |          | Footage                       | 3853     |         |     |  |
|         |          | Hours                         | 75       |         |     |  |
|         |          | ROP                           | 51       |         |     |  |
|         |          | WOB                           | 28-35    |         |     |  |
|         |          | Rot RPM                       | 80       |         |     |  |
|         |          | TFA                           | 2.22000  |         |     |  |
|         |          | MM RPM                        | 148      |         |     |  |
|         |          | Torque                        | 9-12K    |         |     |  |
|         |          | Grade                         |          |         |     |  |
|         |          | Pump & Hydraulics Information |          |         |     |  |
|         |          | COMBO                         | Pump #1  |         |     |  |
|         | Type     | BSF                           |          |         |     |  |
|         | Liner    | 6                             |          |         |     |  |
|         | Stroke   | 12                            |          |         |     |  |
|         | SPM      | 61                            |          |         |     |  |
|         | %Eff     | 95                            |          |         |     |  |
|         | Gal/Strk | 4.158                         |          |         |     |  |
|         | Bbl/Strk | 0.0990                        |          |         |     |  |
|         | Gal/Min  | 270.00                        |          |         |     |  |
|         | Pressure | 3790                          |          |         |     |  |
|         | AV DP    | 269                           |          |         |     |  |
|         | AV DC    | 351                           |          |         |     |  |

hit board with elevators on Connection,  
 pecting Equipment Precision Personnel  
 Ongoing. Precision HES on location.



|          |         |     |  |         |          |
|----------|---------|-----|--|---------|----------|
|          | 5502.62 |     |  |         |          |
|          |         |     |  |         |          |
| Previous |         |     |  | Qty     | Item     |
| 7        |         |     |  | 1       | bl       |
| 8.5      |         |     |  | 1       | mo       |
| SEC      |         |     |  | 1       | nort     |
| 12860364 |         |     |  | 1       | nm       |
| MM65D    |         |     |  | 1       | nm       |
| 6        | x       | 22s |  | 1       | hds      |
| 12730    |         |     |  | 1       | nm       |
| 8884     |         |     |  | 1       | nm       |
| 3846     |         |     |  | 1       | x        |
| 75.7     |         |     |  | 78      | 5"       |
| 51       |         |     |  | 1       | agitator |
| 28-35    |         |     |  |         |          |
| 65       |         |     |  |         |          |
| 2.22000  |         |     |  |         |          |
| 156      |         |     |  |         |          |
| 10-14k   |         |     |  |         |          |
| 1/2      |         |     |  |         |          |
|          |         |     |  | BHA Hrs |          |
|          |         |     |  | Muc     |          |
| Pump #2  |         |     |  | Bg Gas  |          |
| BSF      |         |     |  | Con Gas |          |
| 6        |         |     |  | Tr Gas  |          |
| 12       |         |     |  | MAX     |          |
| 61       |         |     |  | Est PP  |          |
| 95       |         |     |  | ECD     |          |
| 4.158    |         |     |  |         |          |
| 0.0990   |         |     |  | %Shale  |          |
| 270.00   |         |     |  | %Sand   |          |
| 3790     |         |     |  | %Lime   |          |
| 269      |         |     |  | %Other  |          |
| 351      |         |     |  | DEPTH   |          |





|                 |         |         |  |                    |           |  |  |  |
|-----------------|---------|---------|--|--------------------|-----------|--|--|--|
|                 |         |         |  |                    |           |  |  |  |
|                 |         |         |  |                    |           |  |  |  |
| em              | OD      | ID      |  | Conn               |           |  |  |  |
| it              | 8.5     | 3       |  |                    | 4 1/2 reg |  |  |  |
| tor             | 7       |         |  |                    | 4 1/2 xhb |  |  |  |
| trac            | 6 3/4   | 2 7/8   |  |                    | 4 1/2 xhb |  |  |  |
| ipc             | 6 11/16 | 2 7/8   |  |                    | 4 1/2xhb  |  |  |  |
| xo              | 6 7/8   | 2 15/16 |  |                    | 5 1/2 fhb |  |  |  |
| 1 dc            | 6 3/4   | 3 1/2   |  |                    | 5 1/2hxb  |  |  |  |
| xo              | 6 3/4   | 2 7/8   |  |                    | 4 1/2xhb  |  |  |  |
| rfc             | 6 1/2   | 2 3/4   |  |                    | 4 1/2ifb  |  |  |  |
| o               | 6 1/2   | 2 7/8   |  |                    | ifb       |  |  |  |
| dp              | 5       | 4.3     |  |                    | 4 1/2 if  |  |  |  |
|                 | 6 5/8   | 3 1/2   |  |                    | 4 1/2 if  |  |  |  |
|                 |         |         |  |                    |           |  |  |  |
|                 |         |         |  |                    |           |  |  |  |
|                 |         |         |  |                    |           |  |  |  |
|                 |         |         |  |                    |           |  |  |  |
|                 |         |         |  |                    |           |  |  |  |
| 75              |         |         |  | Total BHA          |           |  |  |  |
| Log Information |         |         |  | BOP Test           |           |  |  |  |
| 329.00          |         |         |  | Last Test          |           |  |  |  |
| 329             |         |         |  | Next Test          |           |  |  |  |
| N/A             |         |         |  | Test PSI           |           |  |  |  |
| 329             |         |         |  | Safety Topic       |           |  |  |  |
| 3890            |         |         |  | Making Connections |           |  |  |  |
| 10.63           |         |         |  | Accident           |           |  |  |  |
| Lithology       |         |         |  | NONE               |           |  |  |  |
| 80%             |         |         |  | Personnel          |           |  |  |  |
|                 |         |         |  | Contractor         |           |  |  |  |
| 20%             |         |         |  | Service Co         |           |  |  |  |
| WOLFCAMP        |         |         |  | Co-Rep             |           |  |  |  |
| 16480           |         |         |  | Totals             |           |  |  |  |



|                 |
|-----------------|
| 2.84            |
|                 |
| <b>Length</b>   |
| 1.00            |
| 28.59           |
| 4.89            |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 2,462.79        |
| 26.28           |
|                 |
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| <b>2,606.90</b> |
|                 |
| 4/12/2017       |
| 5/1/2017        |
| 5000            |
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| 11              |
| 9               |
| 2               |
| 22              |
|                 |

[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 16,516.00 | 88.29        | 35.47          |
| 16611     | 88.72        | 35.3           |
| 16706     | 88.64        | 34.95          |
| 16801     | 87.85        | 35.21          |
| 16990     | 89.16        | 35.03          |
| 17085     | 90.13        | 35.12          |
| 17,274.00 | 91.71        | 35.21          |
|           |              |                |

|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">3:30</a>                               |    |
| Date            | 4/30/2017  |    |
| Temperature     | 129  |    |
| TVD             | 7860.02  |    |
| Weight          | 10.0   |    |
| Viscosity       | 48   |    |
| PV              | 16   |    |
| YP              | 24   |    |
| Gels            | 16   | 26 |
| Filtrate 30 min | 25   |    |
| HTHP            | 4  |    |
| Cake            | 1  |    |
| %Solids         | 7.1  |    |
| %Oil            | 66   |    |
| %Water          | 17   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 33000  |    |
| Elec Stab.      | 575v   |    |
| Calcium         | 16000  |    |
| 600 RPM         | 56   |    |
| 300 RPM         | 40   |    |
| %LGS            | 7.13   |    |
| System bbls     | 619  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |



|  |  |  |                |
|--|--|--|----------------|
|  |  |  |                |
|  |  |  |                |
|  |  |  |                |
|  |  | <b>MT.</b>                               | <b>CURRENT</b> |
|  |  | Bit No                                   | 8              |
|  |  | Size                                     | 8.5            |
|  |  | Make                                     | SEC            |
|  |  | Serial                                   | 12862616       |
|  |  | Type                                     | MM65D          |
|  |  | Nozzles                                  | 6 x 22s        |
|  |  | Depth Out                                | 17572          |
|  |  | Depth In                                 | 12730          |
|  |  | Footage                                  | 4842           |
|  |  | Hours                                    | 97.25          |
|  |  | ROP                                      | 49             |
|  |  | WOB                                      | 28-35          |
|  |  | Rot RPM                                  | 80             |
|  |  | TFA                                      | 2.22000        |
|  |  | MM RPM                                   | 148            |
|  |  | Torque                                   | 9-12K          |
|  |  | Grade                                    | n/a            |
|  |  | <b>Pump &amp; Hydraulics Information</b> |                |
|  |  | <b>COMBO</b>                             | <b>Pump #1</b> |
|  |  | Type                                     | BSF            |
|  |  | Liner                                    | 6              |
|  |  | Stroke                                   | 12             |
|  |  | SPM                                      | 61             |
|  |  | %Eff                                     | 95             |
|  |  | Gal/Strk                                 | 4.158          |
|  |  | Bbl/Strk                                 | 0.0990         |
|  |  | Gal/Min                                  | 270.00         |
|  |  | Pressure                                 | 3790           |
|  |  | AV DP                                    | 269            |
|  |  | AV DC                                    | 351            |

[illegible]

|  |        |             |
|--|--------|-------------|
|  | 16,386 | Diesel Used |
|  |        |             |
|  |        |             |

|  | +E / -W | Closure Dist |
|--|---------|--------------|
|  | 5557.21 |              |
|  | 5612.2  |              |
|  | 5666.84 |              |
|  | 5721.42 |              |
|  | 5830.36 |              |
|  | 5886.3  |              |
|  | 5995.2  |              |
|  |         |              |





Circulate & Reciprocate for trip at TD

|  |       |             |
|--|-------|-------------|
|  | 7,387 | Diesel Left |
|--|-------|-------------|

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|                 |
| <b>Length</b>   |
| 1.00            |
| 28.59           |
| 4.89            |
| 15.29           |
| 2.72            |
| 29.78           |
| 3.23            |
| 30.64           |
| 1.69            |
| 2,462.79        |
| 26.28           |
|                 |
|                 |
|                 |
|                 |
|                 |
| <b>2,606.90</b> |
|                 |
| 4/12/2017       |
| 5/1/2017        |
| 5000            |
|                 |
|                 |
|                 |
|                 |
|                 |
| 11              |
| 10              |
| 2               |
| 23              |
|                 |
|                 |

| <b>From</b>        | <b>To</b> | <b>Hrs.</b>  |  |
|--------------------|-----------|--------------|--|
| 06:00              | 08:00     | 2.00         | Circulate & Reciprocate for trip, 581gpm, 39 |
| 08:00              | 14:00     | 6.00         | Pump dry pipe slug, TOH F/17572' T/6500'     |
| 14:00              | 14:30     | 0.50         | 30 minute Flow Check @ 6500', No Flow        |
| 14:30              | 18:00     | 3.50         | LDDP/6500' T/3100' Hole taking proper fil    |
| 18:00              | 22:00     | 4.00         | LDDE/3100' T/2705' LD Agitator, Continue     |
| 22:00              | 22:30     | 0.50         | Remove RCD                                   |
| 22:30              | 23:00     | 0.50         | Rig Service                                  |
| 23:00              | 01:45     | 2.75         | LD Directional Tools, Bit                    |
| 01:45              | 02:30     | 0.75         | Pull Wear bushing                            |
| 02:30              | 03:00     | 0.50         | P/U and M/U , XO, Bit Sub, Insert String Flo |
| 03:00              | 4:45      | 1.75         | TIH T/3000'                                  |
| 4:45               | 05:30     | 0.75         | Install RCD                                  |
| 05:30              | 06:00     | 0.50         | Fill Pipe                                    |
| 05:45              | 06:00     | 0.25         | TIH F/3000 T/3270'                           |
|                    |           |              |  |
|                    |           |              |  |
|                    |           |              |  |
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|                    |           |              |  |
|                    |           |              |  |
|                    |           |              |  |
|                    |           |              |  |
| <b>Total Hours</b> |           | <b>24.25</b> | <b>Diesel R</b>                              |

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 17,274.00 | 91.71        | 35.21          |
| 17369     | 92.77        | 35.03          |
| 17464     | 94.00        | 35.3           |
| 17505     | 94.97        | 34.86          |
| 17572     | 94.97        | 34.86          |
|           |              |                |
|           |              |                |
|           |              |                |

|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">3:30</a>                               |    |
| Date            | 4/30/2017  |    |
| Temperature     | 129  |    |
| TVD             | 7860.02  |    |
| Weight          | 10.0   |    |
| Viscosity       | 48   |    |
| PV              | 16   |    |
| YP              | 24   |    |
| Gels            | 16   | 26 |
| Filtrate 30 min | 25   |    |
| HTHP            | 4  |    |
| Cake            | 1  |    |
| %Solids         | 7.1  |    |
| %Oil            | 66   |    |
| %Water          | 17   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 33000  |    |
| Elec Stab.      | 575v   |    |
| Calcium         | 16000  |    |
| 600 RPM         | 56   |    |
| 300 RPM         | 40   |    |
| %LGS            | 7.13   |    |
| System bbls     | 619  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |









|          |   |         |       |
|----------|---|---------|-------|
|          |   |         |       |
|          |   |         |       |
| Previous |   | Qty     | Item  |
| 8        |   | 1       | bit   |
| 8.5      |   | 1       | bit s |
| SEC      |   | 1       | X     |
| 12862616 |   |         |       |
| MM65D    |   |         |       |
| 6        | x | 22s     |       |
| 17572    |   |         |       |
| 12730    |   |         |       |
| 4842     |   |         |       |
| 97.25    |   |         |       |
| 49       |   |         |       |
| 28-35    |   |         |       |
| 80       |   |         |       |
| 2.22000  |   |         |       |
| 148      |   |         |       |
| 9-12K    |   |         |       |
| 1/2      |   | BHA Hrs |       |
|          |   | Muc     |       |
| Pump #2  |   | Bg Gas  |       |
| BSF      |   | Con Gas |       |
| 6        |   | Tr Gas  |       |
| 12       |   | MAX     |       |
| 65       |   | Est PP  |       |
| 95       |   | ECD     |       |
| 4.158    |   |         |       |
| 0.0990   |   | %Shale  |       |
| 270.00   |   | %Sand   |       |
| 3790     |   | %Lime   |       |
| 269      |   | %Other  |       |
| 351      |   | DEPTH   |       |

TIH @ 3270'

2,232

Diesel Left

Closure Dir

R + / L-

[illegible]



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| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 17,274.00 | 91.71        | 35.21          |
| 17369     | 92.77        | 35.03          |
| 17464     | 94.00        | 35.3           |
| 17505     | 94.97        | 34.86          |
| 17572     | 94.97        | 34.86          |
|           |              |                |
|           |              |                |
|           |              |                |



|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">4:00</a>                               |    |
| Date            | 5/1/2017   |    |
| Temperature     |  |    |
| TVD             | 7860.02  |    |
| Weight          | 10.05  |    |
| Viscosity       | 53   |    |
| PV              | 16   |    |
| YP              | 24   |    |
| Gels            | 16   | 26 |
| Filtrate 30 min | 28   |    |
| HTHP            | 4  |    |
| Cake            | 1  |    |
| %Solids         | 6.9  |    |
| %Oil            | 66   |    |
| %Water          | 17   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 33000  |    |
| Elec Stab.      | 575v   |    |
| Calcium         | 16000  |    |
| 600 RPM         | 56   |    |
| 300 RPM         | 40   |    |
| %LGS            | 7.13   |    |
| System bbls     | 570  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |







|          |   |         |       |
|----------|---|---------|-------|
|          |   |         |       |
|          |   |         |       |
| Previous |   | Qty     | Item  |
| 8        |   | 1       | bit   |
| 8.5      |   | 1       | bit s |
| SEC      |   | 1       | X     |
| 12862616 |   |         |       |
| MM65D    |   |         |       |
| 6        | x | 22s     |       |
| 17572    |   |         |       |
| 12730    |   |         |       |
| 4842     |   |         |       |
| 97.25    |   |         |       |
| 49       |   |         |       |
| 28-35    |   |         |       |
| 80       |   |         |       |
| 2.22000  |   |         |       |
| 148      |   |         |       |
| 9-12K    |   |         |       |
| 1/2      |   | BHA Hrs |       |
|          |   | Muc     |       |
| Pump #2  |   | Bg Gas  |       |
| BSF      |   | Con Gas |       |
| 6        |   | Tr Gas  |       |
| 12       |   | MAX     |       |
|          |   | Est PP  |       |
| 95       |   | ECD     |       |
| 4.158    |   |         |       |
| 0.0990   |   | %Shale  |       |
| 270.00   |   | %Sand   |       |
| 3790     |   | %Lime   |       |
| 269      |   | %Other  |       |
| 351      |   | DEPTH   |       |

LDDP @ 796' bit depth

911

Diesel Left

*Closure Dir*

*R + / L-*







[illegible]

[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 17,274.00 | 91.71        | 35.21          |
| 17369     | 92.77        | 35.03          |
| 17464     | 94.00        | 35.3           |
| 17505     | 94.97        | 34.86          |
| 17572     | 94.97        | 34.86          |
|           |              |                |
|           |              |                |
|           |              |                |

|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">4:00</a>                               |    |
| Date            | 5/1/2017   |    |
| Temperature     |  |    |
| TVD             | 7860.02  |    |
| Weight          | 10.05  |    |
| Viscosity       | 53   |    |
| PV              | 16   |    |
| YP              | 24   |    |
| Gels            | 16   | 26 |
| Filtrate 30 min | 28   |    |
| HTHP            | 4  |    |
| Cake            | 1  |    |
| %Solids         | 6.9  |    |
| %Oil            | 66   |    |
| %Water          | 17   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 33000  |    |
| Elec Stab.      | 575v   |    |
| Calcium         | 16000  |    |
| 600 RPM         | 56   |    |
| 300 RPM         | 40   |    |
| %LGS            | 7.13   |    |
| System bbls     | 570  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |







|          |   |         |     |
|----------|---|---------|-----|
|          |   |         |     |
|          |   |         |     |
| Previous |   | Qty     | Ite |
| 8        |   |         |     |
| 8.5      |   |         |     |
| SEC      |   |         |     |
| 12862616 |   |         |     |
| MM65D    |   |         |     |
| 6        | x | 22s     |     |
| 17572    |   |         |     |
| 12730    |   |         |     |
| 4842     |   |         |     |
| 97.25    |   |         |     |
| 49       |   |         |     |
| 28-35    |   |         |     |
| 80       |   |         |     |
| 2.22000  |   |         |     |
| 148      |   |         |     |
| 9-12K    |   |         |     |
| 1/2      |   | BHA Hrs |     |
|          |   | Muc     |     |
| Pump #2  |   | Bg Gas  |     |
| BSF      |   | Con Gas |     |
| 6        |   | Tr Gas  |     |
| 12       |   | MAX     |     |
|          |   | Est PP  |     |
| 95       |   | ECD     |     |
|          |   | %Shale  |     |
|          |   | %Sand   |     |
|          |   | %Lime   |     |
|          |   | %Other  |     |
|          |   | DEPTH   |     |

Running 5.5 casing, Shoe depth 15372'

|  |     |             |
|--|-----|-------------|
|  | 911 | Diesel Left |
|--|-----|-------------|

|  |     |             |
|--|-----|-------------|
|  | 911 | Diesel Left |
|--|-----|-------------|

[illegible]







[illegible]

[illegible]

| <i>MD</i> | <i>ANGLE</i> | <i>Azimuth</i> |
|-----------|--------------|----------------|
| 17,274.00 | 91.71        | 35.21          |
| 17369     | 92.77        | 35.03          |
| 17464     | 94.00        | 35.3           |
| 17505     | 94.97        | 34.86          |
| 17572     | 94.97        | 34.86          |
|           |              |                |
|           |              |                |
|           |              |                |

|                 |  |    |
|-----------------|--|----|
|                 |  |    |
|                 |  |    |
|                 | <b>Current</b>                                     |    |
| REPORT # TIME   | <a href="#">4:00</a>                               |    |
| Date            | 5/1/2017   |    |
| Temperature     |  |    |
| TVD             | 7860.02  |    |
| Weight          | 10.05  |    |
| Viscosity       | 53   |    |
| PV              | 16   |    |
| YP              | 24   |    |
| Gels            | 16   | 26 |
| Filtrate 30 min | 28   |    |
| HTHP            | 4  |    |
| Cake            | 1  |    |
| %Solids         | 6.9  |    |
| %Oil            | 66   |    |
| %Water          | 17   |    |
| %Sand           |  |    |
| PH              | 0  |    |
| MBT             |  |    |
| Pm              |  |    |
| Pf              |  |    |
| Mf              |  |    |
| Chloride        | 33000  |    |
| Elec Stab.      | 575v   |    |
| Calcium         | 16000  |    |
| 600 RPM         | 56   |    |
| 300 RPM         | 40   |    |
| %LGS            | 7.13   |    |
| System bbls     | 570  |    |
| Mud Loss        |  |    |
| Cum Mud Loss    |  |    |
| Safety Notes    | No accidents, No incidents or Environmental issues |    |

[illegible]









Make final cut on 5.5 casing

2,307

Diesel Left

Closure Dir

R + / L-





[illegible]

[illegible][illegible]

|         |  |  |  |       |  |  |  |  |
|---------|--|--|--|-------|--|--|--|--|
|         |  |  |  |       |  |  |  |  |
|         |  |  |  |       |  |  |  |  |
| Current |  |  |  |       | MT.                                      |  |  |  |
|         |  |  |  |       | Bit No                                   |  |  |  |
|         |  |  |  |       | Size                                     |  |  |  |
|         |  |  |  |       | Make                                     |  |  |  |
|         |  |  |  |       | Serial                                   |  |  |  |
|         |  |  |  |       | Type                                     |  |  |  |
|         |  |  |  |       | Nozzles                                  |  |  |  |
|         |  |  |  |       | Depth Out                                |  |  |  |
|         |  |  |  |       | Depth In                                 |  |  |  |
|         |  |  |  |       | Footage                                  |  |  |  |
|         |  |  |  |       | Hours                                    |  |  |  |
|         |  |  |  |       | ROP                                      |  |  |  |
|         |  |  |  |       | WOB                                      |  |  |  |
|         |  |  |  |       | Rot RPM                                  |  |  |  |
|         |  |  |  |       | TFA                                      |  |  |  |
|         |  |  |  |       | MM RPM                                   |  |  |  |
|         |  |  |  |       | Torque                                   |  |  |  |
|         |  |  |  |       | Grade                                    |  |  |  |
|         |  |  |  |       | <i>Pump &amp; Hydraulics Information</i> |  |  |  |
|         |  |  |  |       | COMBO                                    |  |  |  |
|         |  |  |  |       | Type                                     |  |  |  |
|         |  |  |  |       | Liner                                    |  |  |  |
|         |  |  |  |       | Stroke                                   |  |  |  |
|         |  |  |  |       | SPM                                      |  |  |  |
|         |  |  |  |       | %Eff                                     |  |  |  |
|         |  |  |  |       | Gal/Strk                                 |  |  |  |
|         |  |  |  |       | Bbl/Strk                                 |  |  |  |
|         |  |  |  |       | Gal/Min                                  |  |  |  |
|         |  |  |  |       | Pressure                                 |  |  |  |
|         |  |  |  |       | AV DP                                    |  |  |  |
|         |  |  |  | AV DC |  |  |  |  |

No accidents, No incidents or Environmental issues

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**Present Operation @ 0600 Hrs**

|              |       |  |
|--------------|-------|--|
| Diesel Total | 2,660 |  |
|--------------|-------|--|

[illegible]





WO Daylights to continue RD

Diesel Used

589

Closure Dist

Closure Dir

R +

|                     |      |    |    |           |  |
|---------------------|------|----|----|-----------|--|
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
| Qty                 | Item | OD | ID |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
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|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
|                     |      |    |    |           |  |
| BHA Hrs             |      |    |    |           |  |
| Mud Log Information |      |    |    |           |  |
| Bg Gas              |      |    |    | Last Test |  |
| Con Gas             |      |    |    | Next Test |  |
| Tr Gas              |      |    |    | Test PSI  |  |
| MAX                 |      |    |    |           |  |
| Est PP              |      |    |    |           |  |
| ECD                 |      |    |    |           |  |
| Lithology           |      |    |    |           |  |
| %Shale              |      |    |    |           |  |
| %Sand               |      |    |    |           |  |
| %Lime               |      |    |    |           |  |
| %Other              |      |    |    |           |  |
| DEPTH               |      |    |    |           |  |



|              |  |        |  |
|--------------|--|--------|--|
|              |  |        |  |
|              |  |        |  |
| Conn         |  | Length |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
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|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
| Total BHA    |  | 0.00   |  |
| BOP Test     |  |        |  |
|              |  |        |  |
|              |  |        |  |
|              |  |        |  |
| Safety Topic |  |        |  |
| RIGGING DOWN |  |        |  |
| Accident     |  |        |  |
| NONE         |  |        |  |
| Personnel    |  |        |  |
| Contractor   |  | 11     |  |
| Service Co   |  | 25     |  |
| Co-Rep       |  | 2      |  |
| Totals       |  | 38     |  |
|              |  |        |  |