

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### UNIVERSITY 7-43 38H

|                                                                       |                                        |                                       |                                                                                 |                        |                                                    |                      |
|-----------------------------------------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------------------------------------------------|------------------------|----------------------------------------------------|----------------------|
| API/UWI<br>42-003-47346-0000                                          |                                        | Property Sub<br>927638-038            | Operator<br>PIONEER NATURAL RESRC USA, INC                                      |                        | State<br>TEXAS                                     | County<br>ANDREWS    |
| Field Name<br>SPRABERRY (TREND AREA)                                  |                                        |                                       | Surface Legal Location<br>442' FNL/ 1239' FWL, SEC: 38, BLK: 7, UNIVERSITY LAND |                        |                                                    |                      |
| Spud Date<br>4/23/2016                                                | TD Date<br>6/6/2016                    | Drilling Rig Release Date<br>6/9/2016 | Frac Date                                                                       | On Production Date     | Initial Potential Date                             |                      |
| Ground Elevation (ft)<br>2,955.00                                     | Original KB Elevation (ft)<br>2,984.00 | PBTD (All) (ftKB)                     | Total Depth (All) (ftKB)<br>Original - 19,795.0                                 |                        | Total Depth All (TVD) (ftKB)<br>Original - 9,380.5 |                      |
| <b>Report #: 1 Daily Operation: 4/23/2016 02:00 - 4/23/2016 06:00</b> |                                        |                                       |                                                                                 |                        |                                                    |                      |
| Job Category<br>ORIG DRILLING                                         |                                        |                                       | Primary Job Type<br>ODR                                                         |                        |                                                    | AFE Number<br>038152 |
| Days From Spud (days)<br>0                                            | Days on Location (days)<br>0           | End Depth (ftKB)<br>0.0               | End Depth (TVD) (ftKB)                                                          | Dens Last Mud (lb/gal) | Rig<br>PATTERSON - UTI, 802                        |                      |

#### Operations Summary

Walk rig t/38H, RU & prep to spud.

#### Remarks

NPT for April :

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 0, Total - 0

### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                  |
|-----------------|-----------------|----------|----------|-----------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------|
| 4/23/2016 02:00 | 4/23/2016 04:30 | 2.5      |          | MOVE            | MOVE      | PJSM w/crew, perform walk around and walk rig from #37H<br>Note: Accepted rig @04:30                                                 |
| 4/23/2016 04:30 | 4/23/2016 06:00 | 1.5      |          | RIG UP          | RU        | Install vibrating hose & test lines to 1500 psi, R/U cellar pumps & cellar covers, Function test cellar pumps t/correct pump out put |

### Report #: 2 Daily Operation: 4/23/2016 06:00 - 4/24/2016 06:00

|                               |                              |                             |                                   |                                |                             |                      |
|-------------------------------|------------------------------|-----------------------------|-----------------------------------|--------------------------------|-----------------------------|----------------------|
| Job Category<br>ORIG DRILLING |                              |                             | Primary Job Type<br>ODR           |                                |                             | AFE Number<br>038152 |
| Days From Spud (days)<br>1    | Days on Location (days)<br>1 | End Depth (ftKB)<br>2,010.0 | End Depth (TVD) (ftKB)<br>2,009.9 | Dens Last Mud (lb/gal)<br>8.40 | Rig<br>PATTERSON - UTI, 802 |                      |

#### Operations Summary

MU BHA, TD surface, Circ, TOO, LD directional tools

#### Remarks

NPT for April :

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 0, Total - 0

Spudded @ 06:45 hrs 04/23/16. Drid Sfc 126' to 2010' (1884' @ 118 fph); 100% complete @ 00:30 hrs 04/24/16, 100% rot, 9' right and 7.9' high in relation to plan #2. Bump to spud in 6 hrs (0.3 day)

### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail     | Operation  | Com                                                                                                                                                                                                                                                                                                             |
|-----------------|-----------------|----------|----------|---------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/23/2016 06:00 | 4/23/2016 06:15 | 0.25     |          | SAFETY              | SFTY       | PJSM w/ Patt, Leam & PNR - BHA handling                                                                                                                                                                                                                                                                         |
| 4/23/2016 06:15 | 4/23/2016 06:45 | 0.5      |          | P/U BHA             | PU_BHA     | Scribe MM, program & test EM tool, tag @ 128'                                                                                                                                                                                                                                                                   |
| 4/23/2016 06:45 | 4/23/2016 12:45 | 6        |          | DRILL               | DRL        | Drill sfc F/126' T/731' (605' @ 101 fph) 100% Rot @ 101 fph MW: 8.3+/58, taking returns to cellar & circ outer reserve. Adding lime @ 5 sx/hr to maintain min pH of 12 to help w/ redbed<br><br>** Offline Operations on 37H **<br>-Fit, weld & test wellhead<br>-Tested surface casing to 1000 psi for 30 mins |
| 4/23/2016 12:45 | 4/23/2016 13:00 | 0.25     |          | CIRCULATE           | CIRC       | Circ 1xBU & prep to TOO to PU 8" DC                                                                                                                                                                                                                                                                             |
| 4/23/2016 13:00 | 4/23/2016 13:30 | 0.5      |          | TOOH - ELEVATOR     | TOOH_E LEV | TOOH to BHA, no excessive overpull                                                                                                                                                                                                                                                                              |
| 4/23/2016 13:30 | 4/23/2016 14:00 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC    | Rig service                                                                                                                                                                                                                                                                                                     |
| 4/23/2016 14:00 | 4/23/2016 14:45 | 0.75     |          | TIH - ELEVATOR      | TIH_ELE V  | TIH w/ 2 stds of 8" DC's from derrick & TIH t/726', with no issues                                                                                                                                                                                                                                              |

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### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail     | Operation     | Com                                                                                                                                                                                                                                           |
|-----------------|-----------------|----------|----------|---------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/23/2016 14:45 | 4/24/2016 00:30 | 9.75     |          | DRILL               | DRL           | Drill F/731' T/2010' (1279' @ 131 fph) 100% complete. 100% Rot @ 131 fph, taking returns to cellar & circ outer reserve. 0% Sldg @ - fph MW: 8.3+/58, full returns.                                                                           |
| 4/24/2016 00:30 | 4/24/2016 02:00 | 1.5      |          | CIRCULATE           | CIRC          | CTCH and pump 2-50 bbls hi vis sweeps to clean hole & spot 350 bbls of weighted hi-vis pill @ 9.5ppg, 80+ vis                                                                                                                                 |
| 4/24/2016 02:00 | 4/24/2016 03:15 | 1.25     |          | TOOH - ELEVATOR     | TOOH_E LEV    | PJSM w/Patterson & TOOH on elevators f/2010 t/1126', w/no issues, hole taking proper fill, work tight spot @ 1298' . Able to get passed w/o screwing into it, worked spot multiple times .<br><br>Note: Had excessive over pull of 75k @1126' |
| 4/24/2016 03:15 | 4/24/2016 03:45 | 0.5      |          | TOOH - NON-ELEVATOR | TOOH_N ONELEV | Wash & Ream f/1126' t/990', made several passes with pumps on and after seeing no drag or torque turned off mud pumps and worked through spot multiple times with no issues.                                                                  |
| 4/24/2016 03:45 | 4/24/2016 04:15 | 0.5      |          | TOOH - ELEVATOR     | TOOH_E LEV    | TOOH f/990' t/94', with no excessive over pull and hole taking proper fill.                                                                                                                                                                   |
| 4/24/2016 04:15 | 4/24/2016 04:30 | 0.25     |          | SAFETY              | SFTY          | PJSM w/Patterson & Leam on Handling direcional BHA.                                                                                                                                                                                           |
| 4/24/2016 04:30 | 4/24/2016 06:00 | 1.5      |          | L/D BHA             | L/D BHA       | L/D 17" Stabilizer, drain motor break bit and L/D same, Make up new Motor & 12.25" bit and rack back in derrick.<br><br>** Bit Grade: 0-1-SH-A-X-0-NO-TD                                                                                      |

Report #: 3 Daily Operation: 4/24/2016 06:00 - 4/25/2016 06:00

|                               |                              |                             |                                   |                                |                             |                      |
|-------------------------------|------------------------------|-----------------------------|-----------------------------------|--------------------------------|-----------------------------|----------------------|
| Job Category<br>ORIG DRILLING |                              |                             | Primary Job Type<br>ODR           |                                |                             | AFE Number<br>038152 |
| Days From Spud (days)<br>2    | Days on Location (days)<br>2 | End Depth (ftKB)<br>2,010.0 | End Depth (TVD) (ftKB)<br>2,009.9 | Dens Last Mud (lb/gal)<br>8.40 | Rig<br>PATTERSON - UTI, 802 |                      |

#### Operations Summary

Run sfc csg, cmt per prog, install wellhead & test, N/U bops & test.

#### Remarks

NPT for April :

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 0, Total - 0

### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail   | Operation    | Com                                                                                                                                                                                                                                                                                         |
|-----------------|-----------------|----------|----------|-------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/24/2016 06:00 | 4/24/2016 06:15 | 0.25     |          | SAFETY            | SFTY         | Straighten up rig floor F/trip & prep to RU & run csg                                                                                                                                                                                                                                       |
| 4/24/2016 06:15 | 4/24/2016 06:30 | 0.25     |          | SAFETY            | SFTY         | PJSM w/ Patt, Franks & PNR over RU casing tools                                                                                                                                                                                                                                             |
| 4/24/2016 06:30 | 4/24/2016 07:00 | 0.5      |          | RIG UP            | RU           | RU csg tools, visually inspected & tested                                                                                                                                                                                                                                                   |
| 4/24/2016 07:00 | 4/24/2016 07:15 | 0.25     |          | SAFETY            | SFTY         | PJSM w/ Patt, Franks & PNR over running casing                                                                                                                                                                                                                                              |
| 4/24/2016 07:15 | 4/24/2016 07:45 | 0.5      |          | RUN CSG W/O WASH  | CSG_W/ OWASH | PU & MU 1 jt shoe track. Thread locking all connections including top of FC PU single csg jt to test floats - Good, PU & RU CRT                                                                                                                                                             |
| 4/24/2016 07:45 | 4/24/2016 13:00 | 5.25     |          | RUN CSG W/O WASH  | CSG_W/ OWASH | Run 13 3/8" casing T/1973', with no issues, taking returns to the cellar. MU to diamond, avg tq 4900-5100 ftlb                                                                                                                                                                              |
| 4/24/2016 13:00 | 4/24/2016 15:30 | 2.5      |          | RUN CSG WITH WASH | CSG_W WASH   | Attempt to wash down w/ 250-420 GPM, able to work csg up w/o issues, but lost ground everytime we went back to bottom. Wash & ream 1973'-1977' @ 400-545 gpm, 10 rpm, max tq 3.5k. Weight fell off @ 1977' & was able to wash to bottom w/o rotation. Top of FC @ 1967' Top of Shoe @ 2008' |
| 4/24/2016 15:30 | 4/24/2016 16:00 | 0.5      |          | CIRCULATE         | CIRC         | Circ thru CRT @ 6.5 bpm while RD csg tools. Max press 220 psi, RD CRT                                                                                                                                                                                                                       |
| 4/24/2016 16:00 | 4/24/2016 16:15 | 0.25     |          | SAFETY            | SFTY         | PJSM w/ Patt, SLB & PNR over cmt ops                                                                                                                                                                                                                                                        |
| 4/24/2016 16:15 | 4/24/2016 16:45 | 0.5      |          | RIG DOWN          | RD           | RU SLB lines & cmt head                                                                                                                                                                                                                                                                     |

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### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail | Operation  | Com                                                                                                                                                                                                                                                                                                 |
|-----------------|-----------------|----------|----------|-----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/24/2016 16:45 | 4/24/2016 20:00 | 3.25     |          | CEMENT          | CMT        | Test lines to 3500 psi. Pump 40 bbl, 8.53 ppg FW spacer, Cmted w/ 395 bbl lead, (1255 sx, 13 ppg, 1.66) 112 bbl tail, (460 sx, 13.6 ppg, 1.66) Full returns Est lift press 491 psi, displace w/304 bbl of FW Bumped plug w/630 psi, held 540 psi over Bled back 2 bbl. Circ 155 bbl cmt to surface. |
| 4/24/2016 20:00 | 4/24/2016 20:30 | 0.5      |          | RIG DOWN        | RD         | Wash lines & center csg, RD SLB                                                                                                                                                                                                                                                                     |
| 4/24/2016 20:30 | 4/24/2016 22:30 | 2        |          | CEMENT          | CMT        | Waiting on sfc samples to harden until making rough cut, Note: while waiting on cement, tested choke manifold & r/u panic lines, drive over's and flair stack                                                                                                                                       |
| 4/24/2016 22:30 | 4/25/2016 00:30 | 2        |          | WELLHEAD        | WH         | Cut off Casing W/ArcAngel Welding, Install Seaboard SMB-22 13 3/8" x 13 5/8" 5K wellhead and weld on same. Test weld to 565 psi (successful test)                                                                                                                                                   |
| 4/25/2016 00:30 | 4/25/2016 05:30 | 5        |          | N/U BOPE        | NU_BOP E   | PJSM w/Patterson, Edge & ArcAngel welding, install spacer spool and N/U BOP's, choke and kill line & torque same, function test BOP's r/u turn buckels, cut off flange on flowline & weld on new flange to match up to new Orbit valve.                                                             |
| 4/25/2016 05:30 | 4/25/2016 06:00 | 0.5      |          | TEST BOPE       | TEST_B OPE | PJSM w/Edge & Patterson & test top drive manual IBOP, hydraulic IBOP, 4" valve on standpipe, 4" valve on mud pumps & floor valves.                                                                                                                                                                  |

Report #: 4 Daily Operation: 4/25/2016 06:00 - 4/26/2016 06:00

|                               |                                   |                                |
|-------------------------------|-----------------------------------|--------------------------------|
| Job Category<br>ORIG DRILLING | Primary Job Type<br>ODR           | AFE Number<br>038152           |
| Days From Spud (days)<br>3    | Days On Location (days)<br>3      | End Depth (ftKB)<br>3,134.0    |
|                               | End Depth (TVD) (ftKB)<br>3,133.2 | Dens Last Mud (lb/gal)<br>9.80 |
|                               | Rig<br>PATTERSON - UTI, 802       |                                |

### Operations Summary

Test BOP's, P/U & scribe motor, TIH, drill out float equipment, drill intermediate section t/3134

### Remarks

NPT for April :

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 0, Total - 0

Started Int @ 20:00 hrs 4/25/16. Drld Int 2010' to 3134' (1124' @ 141 fph); 28% complete, 91% rot, 9% sldg. 7.8' right and 3' high in relation to plan #2. MW-10

### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail     | Operation  | Com                                                                                                                                                                                                                                                                                         |
|-----------------|-----------------|----------|----------|---------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/25/2016 06:00 | 4/25/2016 09:00 | 3        |          | TEST BOPE           | TEST_B OPE | Test BOPE: HCR valve, top, bottom & blind rams, kill line 250/5000 - 5 min. Test hydril 250/3,500 for 5 min. Test mud lines back to pumps 250/5000 - 5 min. Good Test.<br><br>***Choke manifold & floor valves tested offline***<br>***Safe Work Permits: Confined space permit in place*** |
| 4/25/2016 09:00 | 4/25/2016 09:30 | 0.5      |          | CSG TEST            | CSG_TEST   | Test casing w/ testers to 1000 psi for 30 mins, good test                                                                                                                                                                                                                                   |
| 4/25/2016 09:30 | 4/25/2016 10:30 | 1        |          | WELLHEAD            | WH         | Caliper & install wear bushing, PNR verify                                                                                                                                                                                                                                                  |
| 4/25/2016 10:30 | 4/25/2016 17:15 | 6.75     |          | RIG UP              | RU         | NU new Pruitt orbit valve & verify operational, flange on flowline side of orbit valve req'd to be welded on-site, RU flowline, airlines, turnbuckles on BOP, center stack w/ PNR verify, hole & csg fill & drain line                                                                      |
| 4/25/2016 17:15 | 4/25/2016 17:30 | 0.25     |          | SAFETY              | SFTY       | PJSM - PU directional BHA                                                                                                                                                                                                                                                                   |
| 4/25/2016 17:30 | 4/25/2016 18:30 | 1        |          | P/U BHA             | PU_BHA     | PU std & scribe MM, swap MWD batteries & program & test same. PU & MU 1 std 8" DC & jars.                                                                                                                                                                                                   |
| 4/25/2016 18:30 | 4/25/2016 20:30 | 2        |          | TIH - ELEVATOR      | TIH_ELEV   | TIH f/91' t/1944', w/ no issues ND trip nipple & NU rotating head                                                                                                                                                                                                                           |
| 4/25/2016 20:30 | 4/25/2016 21:00 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC    | Rlg service                                                                                                                                                                                                                                                                                 |
| 4/25/2016 21:00 | 4/25/2016 22:00 | 1        |          | DRILL OUT           | DRL_OUT    | TIH f/1944' t/1963' w/no issues & tag cement @1963' & drill out FC @1966', w/10 WOB, 30 RPM, 450 GPM, 2-5TQ, 155 DIFF.                                                                                                                                                                      |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date         | End Date           | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                      |
|--------------------|--------------------|----------|----------|-----------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
| 4/25/2016<br>22:00 | 4/26/2016<br>02:15 | 4.25     |          | DRILL           | DRL       | Rotate from 2010' to 2611' (601' @ 141 fph) WOB:20, DIFF:565, RPM:80, MMRPM:218, GPM:750, SPP:2655, TQ:7, Full Returns.  |
| 4/26/2016<br>02:15 | 4/26/2016<br>02:30 | 0.25     |          | DRILL           | DRL       | Slide from 2611' to 2636' (25' @ 100 fph) MTF:50°, WOB:20, DIFF: 250, MMRPM:218, GPM:750, SPP:1980, Full Returns.        |
| 4/26/2016<br>02:30 | 4/26/2016<br>03:30 | 1        |          | DRILL           | DRL       | Rotate from 2636' to 2800' (164' @ 164 fph) WOB:30, DIFF:560, RPM:80, MMRPM:218, GPM:750, SPP:2650, TQ:10, Full Returns. |
| 4/26/2016<br>03:30 | 4/26/2016<br>04:00 | 0.5      |          | DRILL           | DRL       | Slide from 2800' to 2820' (20' @ 40 fph) MTF:30°, WOB:20, DIFF: 250, MMRPM:218, GPM:750, SPP:1980, Full Returns.         |
| 4/26/2016<br>04:00 | 4/26/2016<br>06:00 | 2        |          | DRILL           | DRL       | Rotate from 2820' to 3134' (314' @ 157 fph) WOB:30, DIFF:560, RPM:80, MMRPM:218, GPM:750, SPP:2680, TQ:10, Full Returns. |

Report #: 5 Daily Operation: 4/26/2016 06:00 - 4/27/2016 06:00

|                               |                              |                             |                                   |                                 |                             |                      |
|-------------------------------|------------------------------|-----------------------------|-----------------------------------|---------------------------------|-----------------------------|----------------------|
| Job Category<br>ORIG DRILLING |                              |                             | Primary Job Type<br>ODR           |                                 |                             | AFE Number<br>038152 |
| Days From Spud (days)<br>4    | Days on Location (days)<br>4 | End Depth (ftKB)<br>5,134.0 | End Depth (TVD) (ftKB)<br>5,096.0 | Dens Last Mud (lb/gal)<br>10.10 | Rig<br>PATTERSON - UTI, 802 |                      |

#### Operations Summary

Drilled intermediate to 5134', 78% complete

#### Remarks

NPT for April :

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 0, Total - 0

Drld Int 3134' to 5134' (2000' @ 85 fph); 78% complete, 90% rot, 10% sldg. 5.9' left and 21' high in relation to plan #3. MW-8.2+ w/ 49 vis. Gamma-N/A°, CBHT-115°F, 90% sand, 10% shale.

### Time Log Summary

| Start Date         | End Date           | Dur (hr) | Activity | Activity Detail     | Operation | Com                                                                                                                                                                                        |
|--------------------|--------------------|----------|----------|---------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/26/2016<br>06:00 | 4/26/2016<br>15:30 | 9.5      |          | DRILL               | DRL       | Drill int F/3134' T/4008' (874' @ 92 fph) 50% complete.<br>79% Rot @ 103 fph<br>21% Sldg @ 44 fph<br>MW: 10/29, full returns.<br>Pumping 30 bbl hi-vis SW polymer sweeps every connection  |
| 4/26/2016<br>15:30 | 4/26/2016<br>16:00 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC   | Rig service                                                                                                                                                                                |
| 4/26/2016<br>16:00 | 4/27/2016<br>06:00 | 14       |          | DRILL               | DRL       | Drill int F/4008' T/5134' (1126' @ 80 fph) 78% complete.<br>100% Rot @ 80 fph<br>0% Sldg @ - fph<br>MW: 10.1/29, full returns.<br>Pumping 30 bbl hi-vis SW polymer sweeps every connection |

Report #: 6 Daily Operation: 4/27/2016 06:00 - 4/28/2016 06:00

|                               |                              |                             |                                   |                                 |                             |                      |
|-------------------------------|------------------------------|-----------------------------|-----------------------------------|---------------------------------|-----------------------------|----------------------|
| Job Category<br>ORIG DRILLING |                              |                             | Primary Job Type<br>ODR           |                                 |                             | AFE Number<br>038152 |
| Days From Spud (days)<br>5    | Days on Location (days)<br>5 | End Depth (ftKB)<br>6,040.0 | End Depth (TVD) (ftKB)<br>5,988.4 | Dens Last Mud (lb/gal)<br>10.50 | Rig<br>PATTERSON - UTI, 802 |                      |

#### Operations Summary

Drill Int. to 6,040' TD, Cir, TOO, WB, RU & RIH w/ 9-5/8' Csg

#### Remarks

NPT for April :

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 1.25, Total - 1.25

SURVEY @ MD: 5985' INC 8.9° AZM 60.5 TVD 5934.03' N/S 300.93' E/W 467.91' DLS 0.27° VS -119.05' TEMP 126.5 GAMMA NA @ SURVEY: 22' AHEAD / 9' Left

### Time Log Summary

| Start Date         | End Date           | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                        |
|--------------------|--------------------|----------|----------|-----------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/27/2016<br>06:00 | 4/27/2016<br>13:15 | 7.25     |          | DRILL           | DRL       | Drill int F/5134' T/5657' (523' @ 72 fph) 91% complete.<br>100% Rot @ 72 fph<br>MW: 10.2/29, full returns.<br>Pump 30 bbl hi-vis SW polymer sweeps every std.<br><br>** 2 gens on-line. ** |

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### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail     | Operation    | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|-----------------|----------|----------|---------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/27/2016 13:15 | 4/27/2016 14:30 | 1.25     |          | WELL CONTROL        | WELL_CTRL    | H2S alarms go off @ the shakers 23 ppm, shut well in, line up to gas buster, circ thru choke till 3rd party gave ok. Max SIDPP 80 psi<br>**All crew mustered up in 1 min 23 sec**                                                                                                                                                                                                                                                                                                                                             |
| 4/27/2016 14:30 | 4/27/2016 16:45 | 2.25     |          | DRILL               | DRL          | Drill int F/5657' T/5789' (132' @ 59 fph) 95% complete. 100% Rot @ 59 fph<br>MW: 10.4+/29, full returns.<br>Pump 30 bbl hi-vis SW polymer sweeps every std.<br>**Shephard Safety rep onsite**                                                                                                                                                                                                                                                                                                                                 |
| 4/27/2016 16:45 | 4/27/2016 17:15 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC      | Rig service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4/27/2016 17:15 | 4/27/2016 20:00 | 2.75     |          | DRILL               | DRL          | Drill int F/5789' T/6040' (251' @ 91 fph) 100% complete. 100% Rot @ 91 fph<br>MW: 10.5/29, full returns.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4/27/2016 20:00 | 4/27/2016 21:30 | 1.5      |          | CIRCULATE           | CIRC         | Circ 2 - 50 bbl hi-vis SW polymer sweeps w/ nut plug marker. w/754 GPM's, 80 RPM's, reciprocate @50'/min. Continue CTCH until shakers clean.                                                                                                                                                                                                                                                                                                                                                                                  |
| 4/27/2016 21:30 | 4/27/2016 21:45 | 0.25     |          | FLOW CHECK          | FLOW_CHK     | Flow check f/15 mins, well static.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4/27/2016 21:45 | 4/27/2016 22:00 | 0.25     |          | TOOH - ELEVATOR     | TOOH_ELEV    | Pull 10 stds wet f/6040' t/5004' no issue with overpull & hole taking proper fill                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4/27/2016 22:00 | 4/27/2016 22:30 | 0.5      |          | FLOW CHECK          | FLOW_CHK     | Flow check well static, pump slug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4/27/2016 22:30 | 4/28/2016 01:00 | 2.5      |          | TOOH - ELEVATOR     | TOOH_ELEV    | TOOH f/5004' t/94', No issues with overpull, well taking proper fill.<br><br>** Flow chk @ 3,500' - well static.                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4/28/2016 01:00 | 4/28/2016 01:15 | 0.25     |          | SAFETY              | SFTY         | PJSM over BHA powering off EM tool.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4/28/2016 01:15 | 4/28/2016 01:30 | 0.25     |          | L/D BHA             | L/D BHA      | Drain & power off EM Tool & rack back BHA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4/28/2016 01:30 | 4/28/2016 02:00 | 0.5      |          | WELLHEAD            | WH           | PU single jt DP w/ wear bushing retrieval tool already MU, remove lock down pins & pull wear bushing. Remove all tools off floor, straighten up & prep floor to RU csg tools.<br><br>**Confined Space Permit in Place                                                                                                                                                                                                                                                                                                         |
| 4/28/2016 02:00 | 4/28/2016 02:15 | 0.25     |          | SAFETY              | SFTY         | PJSM w/ Patt, PNR, Franks over RU & running casing                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4/28/2016 02:15 | 4/28/2016 03:30 | 1.25     |          | RIG UP              | RU           | RU casing tools & equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4/28/2016 03:30 | 4/28/2016 06:00 | 2.5      |          | RUN CSG W/O WASH    | CSG_W/O WASH | Note: All csg components are 9 5/8" L-80 BTC, L-80 PU & MU 2 jt shoe track<br>- Single valve down jet float shoe<br>- 2 jts of csg<br>- Float collar<br>Thread locking all connections including top of FC<br>PU single csg jt to test floats - Good.<br>MU Frank's CRT.<br><br>** Avg ID of 10 jts - 8.9063"<br>** Casing Collars OD - 10.6875"<br>** Casing Elevators ID - 9.875"<br><br>** Cross thread Shoe while attempting to MU, L/D shoe w/ jt of Csg. PU & MU new shoe - OK. **<br><br>** 2 gens online - 24 hrs. ** |

### Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

Report #: 7 Daily Operation: 4/28/2016 06:00 - 4/29/2016 00:00

|                               |                              |                             |                                   |                                 |                             |
|-------------------------------|------------------------------|-----------------------------|-----------------------------------|---------------------------------|-----------------------------|
| Job Category<br>ORIG DRILLING |                              |                             | Primary Job Type<br>ODR           |                                 | AFE Number<br>038152        |
| Days From Spud (days)<br>6    | Days on Location (days)<br>6 | End Depth (ftKB)<br>6,040.0 | End Depth (TVD) (ftKB)<br>5,988.4 | Dens Last Mud (lb/gal)<br>10.50 | Rig<br>PATTERSON - UTI, 802 |

Operations Summary  
RIH w/ 9-5/8" Csg, Cir, Cmt

Remarks  
NPT for April :  
Patterson: Past 24 hr - 0, Total - 0  
3rd Party: Past 24 hr - 0, Total - 1.25

#### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail     | Operation   | Com                                                                                                                                                                                                                                             |
|-----------------|-----------------|----------|----------|---------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/28/2016 06:00 | 4/28/2016 06:15 | 0.25     |          | SAFETY              | SFTY        | PJSM with Patt rig crew, Frank's Csg crew & PNR VM over running 9-5/8" Csg. Tour Change.<br><br>** 2 Gens on-line **                                                                                                                            |
| 4/28/2016 06:15 | 4/28/2016 11:00 | 4.75     |          | RUN CSG W/O WASH    | CSG_W/OWASH | Note: All csg components are 9 5/8" L-80 BTC, L-80: RIH w/ csg F/141' to 5,986' Avg. M/U tq to base of triangle 8,000 ft/lbs. Fill csg every 20 - 30 jts. Brk Cir @ ~ 4,500 (San Andres). Monitoring returns to pits, hole displacing properly. |
| 4/28/2016 11:00 | 4/28/2016 11:15 | 0.25     |          | SAFETY              | SFTY        | PJSM w/ Patt rig crew, Seaboard wellhead rep & PNR rep over PU/MU hanger & landing. Assure lock down pins are backed out.                                                                                                                       |
| 4/28/2016 11:15 | 4/28/2016 12:15 | 1        |          | RUN CSG WITH WASH   | CSG_W WASH  | PU & MU hanger and landing joint, CBU @ 6 bpm, 300 spp thru choke due to well flowing. (0 Csg psi) land casing in wellhead w/o issues, SO-135k, w/ Seaboard & PNR Rep on rig floor.<br><br>- Float Collar - 5,923'<br>- Shoe Depth: 6,022'      |
| 4/28/2016 12:15 | 4/28/2016 14:00 | 1.75     |          | CIRCULATE           | CIRC        | Circulate casing @ 6-8 bbl/min 295 psi, max gas - 10 (0 Csg psi). thru choke, last 150 bbls, pump 10.5 FW gel mud for spacer between brine & cement.<br><br>** Well still flowing, shut bag in (450 psi) . Salt water flow (0 Csg psi).         |
| 4/28/2016 14:00 | 4/28/2016 14:30 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC     | Service rig. Grease TD/Blocks, inspect pinns TD (OK). RD Casing equipment.<br><br>** Continue monitoring Csg psi - 0 psi **<br><br>** 1 gen on-line @ 14:00 **                                                                                  |
| 4/28/2016 14:30 | 4/28/2016 14:45 | 0.25     |          | SAFETY              | SFTY        | PJSM w/ Patt, SLB & PNR - RU cementing iron & head.<br><br>** Continue monitoring Csg psi - 0 psi **                                                                                                                                            |
| 4/28/2016 14:45 | 4/28/2016 15:00 | 0.25     |          | RIG UP              | RU          | RU SLB lines to cmt head, load non-rotatable bottom plug cmt head w/ tattle tail, CM verified.<br><br>** Continue monitoring Csg psi - 0 psi **                                                                                                 |
| 4/28/2016 15:00 | 4/28/2016 15:30 | 0.5      |          | SAFETY              | SFTY        | PJSM w/ SLB Cementers, Patt rig crew, Mud Eng, Vac truck drivers over cementing 9-5/8" Intermediate Csg. Discussed vac truck roles w/ OBM transfer & assigned positions.<br><br>** Continue monitoring Csg psi - 0 psi **                       |



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date         | End Date           | Dur (hr) | Activity | Activity Detail | Operation   | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|--------------------|----------|----------|-----------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/28/2016<br>15:30 | 4/28/2016<br>19:30 | 4        |          | CEMENT          | CMT         | <p>Pump cement as follows:</p> <p>Pump 20 bbls to flush lines to reserve;</p> <p>PSI test to 3,500 psi;</p> <p>Pump 70 bbls visc water @ 8.3 ppg; Pump 70 bbls MPE @ 11 ppg; Pump 287 bbls (629 sks) Lead cement mixed @ 11.5 ppg, Yield 2.56 ft³/sk; Pump 76 bbls (321 sks) Tail Cement mixed @ 14.8 ppg Yield 1.33 ft³/sk.</p> <p>Dropped Top Plug @ 16:55 hrs, 4/28/2016, PNR Rep witnessed.</p> <p>Displace with 449 bbls 8.4 ppg OBM.</p> <p>Lift pressures on displacement: 50 bbl, 6.9 bpm, 217 psi., 100 bbl, 6.8 bpm, 206 psi., 150 bbl, 7.9 bpm, 270 psi., 200 bbl, 7.4 bpm, 331 psi., 250 bbl, 6.6 bpm, 392 psi., 300 bbl, 6.6 bpm, 503 psi. 350 bbl, 6.6 bpm, 678 psi., 400 bbl, 6.5 bpm, 1,076 psi., 450 bbl, 3.5 bpm, 1,240 psi. Final lift 1,240 psi.</p> <p>Bumped plug @ 18:30 hrs, 4/28/2016; with 1,638 psi, 518 psi over final lift pressure of 1,120 psi., held 15 minutes. Bled back 3 bbls, Floats Held. Full returns throughout job.</p> <p>** Pumped whole job thru choke.</p> |
| 4/28/2016<br>19:30 | 4/28/2016<br>20:00 | 0.5      |          | RIG DOWN        | RD          | Flush through BOP stack & Flowlines, R/D Cementers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4/28/2016<br>20:00 | 4/28/2016<br>21:45 | 1.75     |          | WELLHEAD        | WH          | <p>Remove landing joint, M/U &amp; set pack off in well head, run in lock down pins, energize pack off seals and test pack off to 5000 psi for 15 min good test, witnessed by PNR rep. L/D Landing Joint.</p> <p>**Safe Work Permits: Confined space entry permit for cellar.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4/28/2016<br>21:45 | 4/28/2016<br>22:00 | 0.25     |          | SAFETY          | SFTY        | PJSM W/Edge, PNR Rep. & Patterson Rig Crew on N/D Operations & Abandonment cap installation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4/28/2016<br>22:00 | 4/28/2016<br>23:30 | 1.5      |          | N/D BOPE        | ND_BOP<br>E | <p>N/D BOP's, break bolts on BOPs, Attach BOP Wrangler to stack R/D turn buckles, break flow line, break DSA &amp; Spool. Lift stack.</p> <p>** Confined space entry permit in place.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4/28/2016<br>23:30 | 4/29/2016<br>00:00 | 0.5      |          | WELLHEAD        | WH          | <p>Install abandonment cap &amp; test to 500 psi for 15 min - Good.</p> <p>*** Released rig f/University 7-43 #38H @ 00:00 hrs on 04/29/16.</p> <p>** 2 gen - 44%, 1 gen - 56%**</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

Report #: 8 Daily Operation: 5/29/2016 06:00 - 5/30/2016 06:00

|                               |                                   |                                |
|-------------------------------|-----------------------------------|--------------------------------|
| Job Category<br>ORIG DRILLING | Primary Job Type<br>ODR           | AFE Number<br>038152           |
| Days From Spud (days)<br>37   | Days on Location (days)<br>7      | End Depth (ftKB)<br>6,931.0    |
|                               | End Depth (TVD) (ftKB)<br>6,864.9 | Dens Last Mud (lb/gal)<br>8.40 |
|                               |                                   | Rig<br>PATTERSON - UTI, 802    |

#### Operations Summary

Walk rig, N/U & test, install wear bushing, M/U BHA, TIH, drill out, CTCH, FIT. Drill Production Vertical t/6931

#### Remarks

NPT for May :

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 0, Total - 1.25

?? Last survey @ 6777', Inc-9.9°, Azm- 60.5°, 12.5' High & .5' Left to plan #2, Gamma-N/A°, CBHT-124°F. 30.5% Complete

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date         | End Date           | Dur (hr) | Activity | Activity Detail     | Operation     | Com                                                                                                                                                                                                                                              |
|--------------------|--------------------|----------|----------|---------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/29/2016<br>06:00 | 5/29/2016<br>06:30 | 0.5      |          | SAFETY              | SFTY          | PJSM w/ Patt, Edge, PNR & Driltek - Walking rig to University 7-43 38H,<br>? Assigned roles to personnel<br>? 9-5/8" csg tested w/ testers while cmt prod'n csg on 37H - Good test.<br>? 1 generator on line.                                    |
| 5/29/2016<br>06:30 | 5/29/2016<br>08:45 | 2.25     |          | MOVE                | MOVE          | Walk rig T/38H, while staging matting boards & removing HPU extension skids.                                                                                                                                                                     |
| 5/29/2016<br>08:45 | 5/29/2016<br>09:00 | 0.25     |          | SAFETY              | SFTY          | PJSM w/ Patt, Edge, Driltek & PNR - NU BOP's,                                                                                                                                                                                                    |
| 5/29/2016<br>09:00 | 5/29/2016<br>10:15 | 1.25     |          | N/U BOPE            | NU_BOP<br>E   | NU BOP's, & torque same<br>RU turnbuckles, drainlines, mud lines & flowline.                                                                                                                                                                     |
| 5/29/2016<br>10:15 | 5/29/2016<br>11:00 | 0.75     |          | RIG UP              | RU            | Finish walking catwalk & MU to v-door                                                                                                                                                                                                            |
| 5/29/2016<br>11:00 | 5/29/2016<br>11:15 | 0.25     |          | SAFETY              | SFTY          | PJSM w/ Patt, Edge, Driltek & PNR - Testing BOP's<br>? Confined space entry in place                                                                                                                                                             |
| 5/29/2016<br>11:15 | 5/29/2016<br>14:15 | 3        |          | TEST BOPE           | TEST_B<br>OPE | ** Edge Specialties on location testing BOPE:<br>Choke manifold, floor valves, HCR valve, top, bottom & blind rams, kill line 250/5000 - 5 min.<br>Test hydril 250/3,500 for 5 min.<br>Test mud lines back to pumps 250/5000 - 5 min. Good Test. |
| 5/29/2016<br>14:15 | 5/29/2016<br>14:30 | 0.25     |          | SAFETY              | SFTY          | PJSM w/ Patt & PNR - Proper procedure on wellhead lockdown pins                                                                                                                                                                                  |
| 5/29/2016<br>14:30 | 5/29/2016<br>15:15 | 0.75     |          | WELLHEAD            | WH            | PU single Remove test plug & install wear bushing<br>? Confined space entry in place<br>? PNR & Rig Mgr confirm lock down pins tightened correctly                                                                                               |
| 5/29/2016<br>15:15 | 5/29/2016<br>15:30 | 0.25     |          | TEST BOPE           | TEST_B<br>OPE | Koomey draw-down test                                                                                                                                                                                                                            |
| 5/29/2016<br>15:30 | 5/29/2016<br>15:45 | 0.25     |          | SAFETY              | SFTY          | PJSM w/ Patt, Leam & PNR - Proper BHA handling                                                                                                                                                                                                   |
| 5/29/2016<br>15:45 | 5/29/2016<br>17:30 | 1.75     |          | P/U BHA             | PU_BHA        | PU, MU, scribe & test directional BHA, MU bit & prep to TIH.<br>? 2 generators on line.                                                                                                                                                          |
| 5/29/2016<br>17:30 | 5/29/2016<br>18:00 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC       | Service rig: Grease from the crown to the ground.                                                                                                                                                                                                |
| 5/29/2016<br>18:00 | 5/29/2016<br>18:15 | 0.25     |          | SAFETY              | SFTY          | PJSM w/crew on P/U 5" HWDP & Tripping pipe                                                                                                                                                                                                       |
| 5/29/2016<br>18:15 | 5/29/2016<br>20:30 | 2.25     |          | TIH - ELEVATOR      | TIH_ELE<br>V  | TIH f/105' t/5922', with no issues Proper displacement observed with trip tanks. Max Trip Speed 150'/minute<br><br>Note: Tag F/C @5922'                                                                                                          |
| 5/29/2016<br>20:30 | 5/29/2016<br>21:00 | 0.5      |          | N/U BOPE            | NU_BOP<br>E   | Pull trip nipple and install rotating head assembly                                                                                                                                                                                              |
| 5/29/2016<br>21:00 | 5/29/2016<br>21:30 | 0.5      |          | DRILL OUT           | DRL_OU<br>T   | Drill out float equipment f/5922' t/6022' w/10 WOB, 200 Diff, 30 ROP's, 450 GPM's<br>F/C=5923'<br>SH=6022'                                                                                                                                       |
| 5/29/2016<br>21:30 | 5/29/2016<br>21:45 | 0.25     |          | DRILL               | DRL           | Drill 10' of new formation f/6040' t/6050', w/150 WOB, 250 Diff, 450 GPM's,                                                                                                                                                                      |
| 5/29/2016<br>21:45 | 5/29/2016<br>22:30 | 0.75     |          | CIRCULATE           | CIRC          | Circ & Condition mud F/FIT, MW In/Out 8.5                                                                                                                                                                                                        |
| 5/29/2016<br>22:30 | 5/29/2016<br>22:45 | 0.25     |          | FIT / LOT           | FIT/LOT       | FIT Test: @ 6022 MD, 5,970 TVD<br>8.5 MW + 465 psi = 10.0 ppg EMW                                                                                                                                                                                |



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date         | End Date           | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------|--------------------|----------|----------|-----------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/29/2016<br>22:45 | 5/30/2016<br>06:00 | 7.25     |          | DRILL           | DRL       | <p>Drill F/6050' T/6931' (151' @ 123 fph), 90% Rot, 30.5% complete.<br/> 90% Rot @ 140 fph<br/> 11% Sldg @ 53 fph<br/> MW-8.3 w/ 52 vis, full returns.<br/> Pump 10 bbl, 10 ppb LCM sweeps every connection.</p> <p>?? Last survey @ 6683', Inc-10.6°, Azm-59.5°, 12.9' High &amp; 1' Left to plan #2, Gamma-N/A°, CBHT-124°F.</p> <p>Lithology:<br/> 6130 -- 70% SD, 30% SH<br/> 6610 -- 50% SH, 50% SD</p> <p>Note: Control drill w/500 GPM's, 190 max ROP's due to trouble shooting with #1 mud pump module 2 discharge washed out, Attempt to apply JB weld on wash out and put pump back on line, having no success decision was made to continue to drill with one pump while welder arrives on location a fix module.</p> |

Report #: 9 Daily Operation: 5/30/2016 06:00 - 5/31/2016 06:00

|                               |                                   |                                |
|-------------------------------|-----------------------------------|--------------------------------|
| Job Category<br>ORIG DRILLING | Primary Job Type<br>ODR           | AFE Number<br>038152           |
| Days From Spud (days)<br>38   | Days on Location (days)<br>8      | End Depth (ftKB)<br>8,711.0    |
|                               | End Depth (TVD) (ftKB)<br>8,619.9 | Dens Last Mud (lb/gal)<br>8.20 |
|                               | Rig<br>PATTERSON - UTI, 802       |                                |

#### Operations Summary

Drill 8.75" Prod Vert F/ 6,931' to 8711

#### Remarks

NPT for April :

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 0, Total - 1.25

Last survey @ 8557', Inc-10.2°, Azm- 60.2°, 3.3' High & 3.2' Left to plan #2, Gamma-N/A°, CBHT-138°F. 91% Complete

### Time Log Summary

| Start Date         | End Date           | Dur (hr) | Activity | Activity Detail     | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------|----------|----------|---------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/30/2016<br>06:00 | 5/30/2016<br>15:30 | 9.5      |          | DRILL               | DRL       | <p>Drill prod vert F/6931' T/7781' @ 89 fph, 59% complete.<br/> 62% Rot @ 134 fph<br/> 38% Sldg @ 33 fph<br/> MW: 8.2 w/ a 48 vis, full returns.<br/> 10-15 bbl, hi-vis every other conn, seeing 25% inc amt cuttings</p> <p>SPR's @ 7,024' &amp; 7,493'</p> <p>Lithology:<br/> 6940 - 80% LS, 20% SH<br/> 7000 - 70% LS, 30% SH<br/> 7120 - 60% LS, 20% SH, 20% SD<br/> 7180 - 50% LS, 30% SH, 20% SD<br/> 7230 - 60% SH, 30% LS, 10% SD<br/> 7330 - 70% SD, 20% LS, 10% SH<br/> 7340 - 50% SD, 30% SD, 20% SH<br/> 7400 - 40% SH, 30% LS, 30% SD<br/> 7510 - 80% SH, 10% LS, 10% SD<br/> 7530 - 40% SH, 30% LS, 30% SD<br/> 7710 - 60% SH, 30% LS, 10% SD<br/> 7770 - 50% SH, 40% LS, 10% SD</p> |
| 5/30/2016<br>15:30 | 5/30/2016<br>16:00 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC   | Service Rig: Grease from the crown to the ground. Chk MP #1, middle module starting to wash again. Patt has module heading this way.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date         | End Date           | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                    |
|--------------------|--------------------|----------|----------|-----------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/30/2016<br>16:00 | 5/30/2016<br>21:30 | 5.5      |          | DRILL           | DRL       | Drill prod vert F/7781' T/8189' @ 74 fph, 74% complete.<br>50% Rot @ 110 fph<br>50% Sldg @ 40 fph<br>MW: 8.2 w/ a 48 vis, full returns.<br><br>Lithology:<br>7820 - 50% SH, 40% LS, 10% SD<br>7870 - 60% SH, 40% LS<br>8050 - 80% SH, 20% LS<br><br>Note: Receiving high winds, heavy rains & lighting |
| 5/30/2016<br>21:30 | 5/30/2016<br>22:15 | 0.75     |          | CIRCULATE       | CIRC      | Pick up off bottom, shut down 1 generator & circulate due to server weather.<br><br>Note: Follow Patterson server weather procedures                                                                                                                                                                   |
| 5/30/2016<br>22:15 | 5/30/2016<br>22:30 | 0.25     |          | DRILL           | DRL       | Drill prod vert F/8189' T/8243' @ 216 fph, 75% complete.<br>100% Rot @ 216 fph<br>0% Sldg @ - fph<br>MW: 8.2 w/ a 48 vis, full returns.<br><br>Note: @ 8200' pump high vis to perform sprayberry circulation                                                                                           |
| 5/30/2016<br>22:30 | 5/30/2016<br>23:30 | 1        |          | CIRCULATE       | CIRC      | Pick up off bottom & circulate high sweep around before entering sprayberry. w/500 GPM's, 80 RPM's,<br><br>Note: While sweep coming back around there was no change in returners (cuttings or sand)                                                                                                    |
| 5/30/2016<br>23:30 | 5/31/2016<br>06:00 | 6.5      |          | DRILL           | DRL       | Drill prod vert F/8243' T/8711' @ 72 fph, 91% complete.<br>54% Rot @ 103 fph<br>46% Sldg @ 38 fph<br>MW: 8.2 w/ a 48 vis, full returns.<br><br>Lithology:<br>8300 - 70% SH, 30% LS<br>8360 - 80% SH, 20% LS<br>8450 - 80% SH, 20% LS<br><br>Ran on #2 generator 100%, 1&3 50% from previous 24 hrs.    |

Report #: 10 Daily Operation: 5/31/2016 06:00 - 6/1/2016 06:00

|                               |                              |                             |                                   |                                |                             |                      |
|-------------------------------|------------------------------|-----------------------------|-----------------------------------|--------------------------------|-----------------------------|----------------------|
| Job Category<br>ORIG DRILLING |                              |                             | Primary Job Type<br>ODR           |                                |                             | AFE Number<br>038152 |
| Days From Spud (days)<br>39   | Days on Location (days)<br>9 | End Depth (ftKB)<br>9,241.0 | End Depth (TVD) (ftKB)<br>9,129.5 | Dens Last Mud (lb/gal)<br>8.25 | Rig<br>PATTERSON - UTI, 802 |                      |

#### Operations Summary

Drill 8.75" Prod Vert F/8711' to 8930' KOP,CTCH, TOO, C/O BHA, TIH, Drill 8.75" Curve F/ 8930' to 9241

#### Remarks

NPT for May :

Patterson: Past 24 hr - 0, Total - 21.5

3rd Party: Past 24 hr - .75, Total - 12.25

Last survey @ 9044', Inc-18.2°, Azm- 106.1°, 12' High & 14' right to plan #3, Gamma-75°, CBHT-131°F. 29% Complete

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date      | End Date        | Dur (hr) | Activity | Activity Detail     | Operation    | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|-----------------|----------|----------|---------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/31/2016 06:00 | 5/31/2016 13:45 | 7.75     |          | DRILL               | DRL          | Drill prod vert F/8711' T/8930' @ 28 fph, 99% complete.<br>81% Rot @ 27 fph<br>19% Sldg @ 11 fph<br>MW: 8.2 w/ a 48 vis, full returns.<br>? Dropping 1.5- 2° per stand drilled<br>? 10-15 bbl, hi-vis every other conn, seeing 25% inc amt cuttings<br><br>? Spr's @ 8,711'.<br><br>?SPYBY M A1 - 8,782' MD, 8,690' TVP<br><br>Lithology:<br>8700 - 80% SH, 20% SD<br>8720 - 70% SH, 30% SD<br>8730 - 50% SH, 50% SD<br>8740 - 70% SH, 30% SD<br>8770 - 60% SH, 30% SD, 10% LS<br>8800 - 60% SH, 20% SD, 20% LS<br>8860 - 40% SH, 30% SD, 30% LS<br>8900 - 70% SH, 20% LS, 10% SD<br><br>**After making the Connection at 8,899', ROP fell off to 15- 25 fph. Pumped 2 hi-vis sweeps in tandem after connection was made, 1st sweep brought back a hand full coffee size cuttings, 2nd sweep shakers were clean. Notified Supt & Eng, decision was made to TOOH for Curve assembly. |
| 5/31/2016 13:45 | 5/31/2016 14:15 | 0.5      |          | FLOW CHECK          | FLOW_C HK    | Flow chk f/15 mins, well static. Pump slug.<br><br>? Held PJSM over TOOH operations during flow chk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5/31/2016 14:15 | 5/31/2016 17:00 | 2.75     |          | TOOH - ELEVATOR     | TOOH_E LEV   | TOOH F/Curve assembly F/8,930' to 745", No hole issues seen, Hole taking proper fill from trip tanks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5/31/2016 17:00 | 5/31/2016 17:30 | 0.5      |          | N/U BOPE            | NU_BOP E     | Pull Rotating Head & Install Trip Nipple.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5/31/2016 17:30 | 5/31/2016 18:00 | 0.5      |          | TOOH - ELEVATOR     | TOOH_E LEV   | Cont. TOOH w/Curve assembly F/780' t/180', No hole issues seen, Hole taking proper fill from trip tanks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5/31/2016 18:00 | 5/31/2016 18:15 | 0.25     |          | SAFETY              | SFTY         | PJSM w/ Patt crew, Leam Directional & PNR CM over L/D Vert. Assy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5/31/2016 18:15 | 5/31/2016 19:00 | 0.75     |          | L/D BHA             | L/D BHA      | L/D Top NMDC, Pull MWD, Drain Motor, Break Bit, L/D IBS, L/D Motor.<br><br>**Bit Graded: 2/6/RO/S/X/1/RO/TD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5/31/2016 19:00 | 5/31/2016 19:15 | 0.25     |          | SAFETY              | SFTY         | PJSM w/ Patt crew, Leam Directional & PNR CM over P/U Directional tools,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5/31/2016 19:15 | 5/31/2016 19:45 | 0.5      |          | P/U BHA             | PU_BHA       | P/U 6 3/4" 2.38° Fixed Slick 7/8 - 5.0 Motor, M/U Float Sub & UBHO Sub/NMDC, Scribe & Install MWD, Surface test Motor & MWD, Good Test, M/U 8 3/4" MMD55DM Bit & Flex NMDC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5/31/2016 19:45 | 5/31/2016 20:15 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC      | LO/TO TD and DW, check fluid levels on TD and grease same, grease ST-80,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5/31/2016 20:15 | 5/31/2016 20:45 | 0.5      |          | N/U BOPE            | NU_BOP E     | Remove trip nipple & install rotating head assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5/31/2016 20:45 | 6/1/2016 00:00  | 3.25     |          | TIH - ELEVATOR      | TIH_ELE V    | TIH W/Curve Assy, F/BHA -t/8816', Hole giving proper closed end displacement, Filling every 30 stands.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 6/1/2016 00:00  | 6/1/2016 01:00  | 1        |          | TIH - NON-ELEVATOR  | TIH_NON ELEV | Wash f/8816' t/8930', w/500 GPM's, 100'/min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------|----------------|----------|----------|-----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/1/2016 01:00 | 6/1/2016 06:00 | 5        |          | DRILL           | DRL       | Drill curve F/8930' T/9241' @ 62 fph, 29% complete.<br>10% Rot @ 60 fph<br>90% Sldg @ 62 fph<br>MW: 8.2 w/ a 48 vis, full returns.<br><br>Lithology:<br>8950 - 60% SH, 10% SD, 30% LS<br>9070 - 60% SH, 30% SD, 10% LS<br><br>SURVEY @ MD: 9044' INC 18.2° AZM 106.1° TVD 8948.03'<br>TEMP 131 GAMMA 75 @ SURVEY: 12' AHEAD / 14' RIGHT<br><br>Ran on1&2 generators 100%, from previous 24 hrs. |

Report #: 11 Daily Operation: 6/1/2016 06:00 - 6/2/2016 06:00

|                               |                                   |                                |
|-------------------------------|-----------------------------------|--------------------------------|
| Job Category<br>ORIG DRILLING | Primary Job Type<br>ODR           | AFE Number<br>038152           |
| Days From Spud (days)<br>40   | Days on Location (days)<br>10     | End Depth (ftKB)<br>10,100.0   |
|                               | End Depth (TVD) (ftKB)<br>9,477.3 | Dens Last Mud (lb/gal)<br>8.20 |
|                               |                                   | Rig<br>PATTERSON - UTI, 802    |

#### Operations Summary

Drill 8 3/4" Curve F/9,241' - 9,851', Drill Lateral T/10,100', CTCH, TOO, C/O BHA, TIH

#### Remarks

No Accidents, Incidents or Spills.

#### NPT for June:

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - .0, Total - 0

Last survey @ 9,981', Inc. 89.1°, Azm. 166.02°, 16.5' High & 8.3' right to plan #3, Gamma 106, CBHT 146°F, Lateral 3% Complete

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail     | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------|----------------|----------|----------|---------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/1/2016 06:00 | 6/1/2016 15:15 | 9.25     |          | DRILL               | DRL       | Drill curve F/9,241' T/9,851' @ 66 fph, 100% complete.<br>33% Rot @ 60 fph<br>68% Sldg @ 70 fph<br>MW: 8.25 w/ a 53 vis, full returns.<br><br>Lithology:<br>9250 - 50% SH, 40% SD, 10% LS<br>9280 - 80% SH, 20% SD<br>9370 - 60% SD, 20% SH, 20% LS<br>9400 - 40% SH, 40% SD, 20% LS<br>9430 - 60% SH, 30% SD, 10% LS<br>9460 - 50% SH, 40% SD, 10% LS<br>9490 - 70% SH, 20% SD, 10% LS<br>9580 - 90% SH, 10% SD<br>9640 - 70% SH, 20% SD, 10% SD<br>9670 - 90% SH, 10% LS<br>9700 - 60% SH, 40% LS<br>9760 - 80% SH, 20% LS<br>9790 - 60% SH, 40% LS<br>9820 - 90% SH, 10% LS |
| 6/1/2016 15:15 | 6/1/2016 19:15 | 4        |          | DRILL               | DRL       | Drill lateral F/9,851' T/10,100' @ 62 fph, 3% complete.<br>88% Rot @ 66 fph<br>13% Sldg @ 30 fph<br>MW: 8.3 w/ a 51 vis, full returns.<br><br>Lithology:<br>9910 - 90% SH, 10% LS<br>10100 - 80% SH, 20% LS                                                                                                                                                                                                                                                                                                                                                                    |
| 6/1/2016 19:15 | 6/1/2016 19:45 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC   | LO/TO DW & TD, Service TDS, ST-80 & Blocks while circulating sweeps.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6/1/2016 19:45 | 6/1/2016 20:15 | 0.5      |          | CIRCULATE           | CIRC      | Circulate B/U & continue circulating until shakers are clean.<br>w/30 RPM's, 562 GPM's, 2,157 spp. Pump 2 high vis sweeps in tandem after last connection was made.<br><br>**Held PJSM over TOO operations while circulating.                                                                                                                                                                                                                                                                                                                                                  |
| 6/1/2016 20:15 | 6/1/2016 20:30 | 0.25     |          | FLOW CHECK          | FLOW_C HK | Flow Check to Trip Tank F/7 mins, well static. Pump slug.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                             |
|----------------|----------------|----------|----------|-----------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/1/2016 20:30 | 6/2/2016 00:30 | 4        |          | TOOH - ELEVATOR | TOOH_ELEV | TOOH F/RST Lateral assy. F/10,100' to 672', No hole issues seen, Hole taking proper fill from trip tanks.<br><br>**TOOH on Double to rotate breaks.                                                                                                                             |
| 6/2/2016 00:30 | 6/2/2016 01:00 | 0.5      |          | N/U BOPE        | NU_BOP E  | Pull Rotating Head & Install Trip Nipple.                                                                                                                                                                                                                                       |
| 6/2/2016 01:00 | 6/2/2016 01:15 | 0.25     |          | TOOH - ELEVATOR | TOOH_ELEV | Cont. TOOH w/Curve assy. F/672' t/102', No hole issues seen, Hole taking proper fill from trip tanks.                                                                                                                                                                           |
| 6/2/2016 01:15 | 6/2/2016 01:30 | 0.25     |          | SAFETY          | SFTY      | PJSM w/Patterson Crew, Learn Directional & PNR CM over BHA Handling                                                                                                                                                                                                             |
| 6/2/2016 01:30 | 6/2/2016 02:15 | 0.75     |          | L/D BHA         | L/D BHA   | L/D Flex NMDC, Remove MWD, Drain Motor, Break Bit, L/D Motor, Break Off Float Sub, Pony NMDC & UBHO Sub.<br><br>**Bit Graded: 1 - 1 - CT - G - X - 0 - NO - BHA                                                                                                                 |
| 6/2/2016 02:15 | 6/2/2016 03:30 | 1.25     |          | P/U BHA         | PU_BHA    | Inst. New Sleeve In UBHO Sub & M/U to NMDC, P/U & M/U RST (float installed), Inst. MWD & Lock Down Same, P/U & M/U 7:8 3.3 Slick Straight Triumph Mud Motor, Double Pin Sub & Pony NMDC. Surface Test Motor & MWD @ 5.98 bpm, 365 psi, Good Test. M/U 8 1/2" Security MM65D Bit |
| 6/2/2016 03:30 | 6/2/2016 06:00 | 2.5      |          | TIH - ELEVATOR  | TIH_ELEV  | TIH W/Lateral Assy, F/BHA - 5,714', Hole giving proper closed end displacement, Filling every 30 stands.<br><br>**Ran 100% of previous 24 hours on 2 generators.                                                                                                                |

Report #: 12 Daily Operation: 6/2/2016 06:00 - 6/3/2016 06:00

|               |                  |            |
|---------------|------------------|------------|
| Job Category  | Primary Job Type | AFE Number |
| ORIG DRILLING | ODR              | 038152     |

|                       |                         |                  |                        |                        |                      |
|-----------------------|-------------------------|------------------|------------------------|------------------------|----------------------|
| Days From Spud (days) | Days on Location (days) | End Depth (ftKB) | End Depth (TVD) (ftKB) | Dens Last Mud (lb/gal) | Rig                  |
| 41                    | 11                      | 12,431.0         | 9,443.1                | 8.35                   | PATTERSON - UTI, 802 |

#### Operations Summary

Slip/Cut DL, TIH, Survey Mgmt, TIH, Relog gamma, Drill 8.5" Prod Lat F/ 10,100' to 12,431'

#### Remarks

No Accidents, Incidents or Spills.

#### NPT for June:

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - 0, Total - 0

Last survey @ 12,153', Inc. 90.4°, Azm. 165.13°, 22.5' High & 4' Left to plan #3, Gamma 98, CBHT 175°F, Lateral 26% Complete

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail     | Operation | Com                                                                                                                                                                               |
|----------------|----------------|----------|----------|---------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/2/2016 06:00 | 6/2/2016 06:30 | 0.5      |          | SAFETY              | SFTY      | Fill pipe. PJSM w/ Patt rig crew, TP & PNR rep over slip & cut drill line.                                                                                                        |
| 6/2/2016 06:30 | 6/2/2016 07:45 | 1.25     |          | SLIP & CUT          | SLIP_CUT  | Slip & Cut 120' of drill line.                                                                                                                                                    |
| 6/2/2016 07:45 | 6/2/2016 08:00 | 0.25     |          | N/U BOPE            | NU_BOP E  | Pull trip nipple & install rotating head.                                                                                                                                         |
| 6/2/2016 08:00 | 6/2/2016 08:30 | 0.5      |          | TIH - ELEVATOR      | TIH_ELEV  | TIH W/Lateral Assy f/ shoe to 6,183'. Hole giving proper closed end displacement.                                                                                                 |
| 6/2/2016 08:30 | 6/2/2016 10:00 | 1.5      |          | LWD                 | LWD       | Perform Survey Mgmt F/ 6,183' to 6,745'.                                                                                                                                          |
| 6/2/2016 10:00 | 6/2/2016 11:30 | 1.5      |          | TIH - ELEVATOR      | TIH_ELEV  | Cont TIH W/Lateral Assy, F/6,745' to 10,026', Hole giving proper closed end displacement, Filling every 30 stands.                                                                |
| 6/2/2016 11:30 | 6/2/2016 12:30 | 1        |          | LWD                 | LWD       | Fill pipe. Relog gamma f/ 10,026' to 10,100' w/ 587 gpm, 2741 spp, full returns to surface.                                                                                       |
| 6/2/2016 12:30 | 6/2/2016 16:45 | 4.25     |          | DRILL               | DRL       | Drill F/10,100' to 10,587' (487' @ 115 fph), 100% Rot, 7% complete.<br>MW-8.35 w/ 50 vis, full returns.<br><br>Lithology:<br>10,130' - 90% SH, 10% LS<br>10,510' - 90% SH, 10% LS |
| 6/2/2016 16:45 | 6/2/2016 17:15 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC   | Service Rig: Grease from the crown to the ground.                                                                                                                                 |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|----------------|----------|----------|-----------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/2/2016 17:15 | 6/3/2016 06:00 | 12.75    |          | DRILL           | DRL       | Drill F/10,587' to 12,431' (1,844' @ 145 fph), 100% Rot, 26% complete.<br>MW-8.3 w/ 53 vis, full returns.<br><br>Lithology:<br>10,630' - 90% SH, 10% LS<br>10,870' - 80% SH, 20% LS<br>10,930' - 90% SH, 10% LS<br>11,170' - 80% SH, 20% LS<br>11,410' - 90% SH, 10% LS<br>11,830' - 80% SH, 20% LS<br>11,950' - 90% SH, 10% LS<br>12,070' - 90% SH, 10% LS<br><br>**Ran 100% of previous 24 hours on 2 generators. |

Report #: 13 Daily Operation: 6/3/2016 06:00 - 6/4/2016 06:00

|                               |                               |                              |                                   |                                |                             |                      |
|-------------------------------|-------------------------------|------------------------------|-----------------------------------|--------------------------------|-----------------------------|----------------------|
| Job Category<br>ORIG DRILLING |                               |                              | Primary Job Type<br>ODR           |                                |                             | AFE Number<br>038152 |
| Days From Spud (days)<br>42   | Days on Location (days)<br>12 | End Depth (ftKB)<br>15,274.0 | End Depth (TVD) (ftKB)<br>9,403.8 | Dens Last Mud (lb/gal)<br>8.25 | Rig<br>PATTERSON - UTI, 802 |                      |

#### Operations Summary

Drill 8 1/2" Production Lateral F/ 12,431' to 15,274'

#### Remarks

No Accidents, Incidents or Spills.

#### NPT for June:

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - .0, Total - 0

Last survey @ 15',152, Inc. 89.3°, Azm. 1624.2°, 36.5' High & 16.6' Right to plan #3, Gamma 106, CBHT 190°F, Lateral 54.6% Complete

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail     | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|----------------|----------|----------|---------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/3/2016 06:00 | 6/3/2016 18:30 | 12.5     |          | DRILL               | DRL       | Drill F/12,431' to 13,962' (1,531' @ 122 fph), 100% Rot, 41.4% complete.<br>MW-8.3 w/ 52 vis, full returns.<br><br>SPR's @ 13,025' & 13,587'<br><br>Lithology:<br>12,431' - 90% SH, 10% LS<br>13,210' - 70% SH, 30% LS<br>13,270' - 80% SH, 20% LS<br>13,480' - 90% SH, 10% LS<br>13,600' - 80% SH, 20% LS<br>13,660' - 60% SH, 40% LS<br>13,840' - 70% SH, 30% LS<br>13,960' - 80% SH, 20% LS<br><br>? This morning we are showing losses of 5/7 bph. Started pumping 10-15 bbls of 10 ppb LCM every other connection to help control seepage, consisting of 5 ppb mica & 5 ppb Cal carb. Running diesel @ 5 bph & water @ 2 bph, @ 13,023' diesel @ 7 bph & water off. |
| 6/3/2016 18:30 | 6/3/2016 19:00 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC   | L/O T/O Dwks & TDS, Lubricate TD, Drawworks & Blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|----------------|----------|----------|-----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/3/2016 19:00 | 6/4/2016 06:00 | 11       |          | DRILL           | DRL       | <p>Drill F/13,962' to 15,274' (1,312' @ 119 fph), 100% Rot, 54.6% complete.<br/>MW-8.3 w/ 52 vis, full returns.</p> <p>SPR's @ 14,244' &amp; 14,714'</p> <p>Lithology:<br/>14,020' - 80% SH, 20% LS<br/>14,260' - 60% SH, 40% LS<br/>14,320' - 80% SH, 20% LS<br/>14,380' - 70% SH, 30% LS<br/>14,440' - 80% SH, 20% LS<br/>14,680' - 70% SH, 30% LS<br/>14,470' - 80% SH, 20% LS<br/>14,800' - 90% SH, 10% LS<br/>14,980' - 70% SH, 30% LS<br/>15,040' - 80% SH, 20% LS</p> <p>? Pumping 10-15 bbls of 10 ppb LCM every other connection to help control seepage, consisting of 5 ppb mica &amp; 5 ppb Cal carb. Running diesel @ 7 bph, water off.</p> <p>? Backed off rpm from 100 to 80 F/14,527' - 14,699' &amp; F/14,996 - 15,180' while controlling hard RH walk in carbonate stringers.</p> <p>? Ran 100% of previous 24 hours on 2 generators.</p> |

Report #: 14 Daily Operation: 6/4/2016 06:00 - 6/5/2016 06:00

|                               |                                   |                                |
|-------------------------------|-----------------------------------|--------------------------------|
| Job Category<br>ORIG DRILLING | Primary Job Type<br>ODR           | AFE Number<br>038152           |
| Days From Spud (days)<br>43   | Days on Location (days)<br>13     | End Depth (ftKB)<br>17,399.0   |
|                               | End Depth (TVD) (ftKB)<br>9,384.6 | Dens Last Mud (lb/gal)<br>8.25 |
|                               |                                   | Rig<br>PATTERSON - UTI, 802    |

#### Operations Summary

Drill 8 1/2" Production Lateral F/ 15.274' to 17,399'

#### Remarks

No Accidents, Incidents or Spills.

#### NPT for June:

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - .0, Total - 0

Last survey @ 17,215', Inc. 90.4°, Azm. 167.74°, 49 Above & 6.3' Left of Plan #3, Gamma 121, CBHT 198°F, Lateral 76% Complete

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail     | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------|----------------|----------|----------|---------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/4/2016 06:00 | 6/4/2016 15:30 | 9.5      |          | DRILL               | DRL       | <p>Drill F/15274' T/16023' (749' @ 79 fph), 100% Rot, 62.1% complete.<br/>MW-8.3 w/ 52 vis, full returns.</p> <p>? SPR's @ 15,461' &amp; 16,023'</p> <p>? Pumping 10-15 bbls of 10 ppb LCM every other connection to help control seepage, consisting of 5 ppb mica &amp; 5 ppb Cal carb. Running diesel @ 7 bph, water @ 2 bph.</p> <p>? Backed off rpm from 100 to 80 F/15,469' - 15,551' &amp; F/15,742' - 15,836' while controlling hard RH walk in carbonate stringers, Double LL.</p> <p>? Backed off rpm from 80 to 65 F/15,836' - 16,078' while controlling hard RH walk in carbonate stringers, Gravity L.</p> <p>Lithology:<br/>15,275' - 70% SH, 30% LS<br/>15,340' - 90% SH, 10% LS<br/>15,520' - 70% SH, 30% LS<br/>15,640' - 60% SH, 40% LS<br/>15,700' - 50% SH, 50% LS<br/>15,730' - 60% SH, 40% LS<br/>15,760' - 70% SH, 30% LS<br/>15,790' - 80% SH, 20% LS<br/>15,880' - 90% SH, 10% LS</p> |
| 6/4/2016 15:30 | 6/4/2016 16:00 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC   | Service Rig. L/O T/O Dwks & TDS, Lubricate TD, Drawworks & Blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 6/4/2016 16:00 | 6/4/2016 23:15 | 7.25     |          | DRILL               | DRL       | <p>Drill F/16,023' T/16,801' (778' @ 107 fph), 100% Rot, 70% complete.<br/>MW-8.3 w/ 52 vis, full returns.</p> <p>? SPR's @ 16,586'</p> <p>? Pumping 10 - 15 bbls of 15 ppb LCM every other connection to help control seepage, consisting of 5 ppb mica &amp; 10 ppb Cal carb. Running diesel @ 7 bph, water @ 2 bph.</p> <p>? RPM @ 80 F/16,078' - 16,336' while controlling hard LH walk due to carbonate stringers, 91 Hold RR.</p> <p>Lithology:<br/>16,060' - 90% SH, 10% LS<br/>16,240' - 80% SH, 20% LS<br/>16,450' - 90% SH, 10% LS<br/>16,570' - 80% SH, 20% LS<br/>16,690' - 90% SH, 10% LS<br/>16,750' - 90% SH, 10% LS</p>                                                                                                                                                                                                                                                                        |
| 6/4/2016 23:15 | 6/4/2016 23:30 | 0.25     |          | CIRCULATE           | CIRC      | Downlink RST to Inc. Hold 90RR off bottom, due to original downlink (F/16,775' - 16,801') not accepted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|----------------|----------|----------|-----------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/4/2016 23:30 | 6/5/2016 06:00 | 6.5      |          | DRILL           | DRL       | <p>Drill F/16,801' T/17,399' (598' @ 92 fph), 100% Rot, 76% complete.<br/>MW-8.3 w/ 52 vis, full returns.</p> <p>? SPR's @ 17,056'</p> <p>? Pumping 10 - 15 bbls of 15 ppb LCM every other connection to help control seepage, consisting of 5 ppb mica &amp; 10 ppb Cal carb. Running diesel @ 7 bph, water @ 2 bph.</p> <p>? RPM @ 80 F/16,775' - 17,000' while controlling hard LH walk, 90 Hold RR.</p> <p>Lithology:<br/>16,810' - 90% SH, 10% LS<br/>16,870' - 80% SH, 20% LS<br/>17,080' - 70% SH, 30% LS</p> <p>? Ran 90% of previous 24 hours on 2 generators, remainder on 3 generators.</p> |

Report #: 15 Daily Operation: 6/5/2016 06:00 - 6/6/2016 06:00

|                               |                                   |                                |
|-------------------------------|-----------------------------------|--------------------------------|
| Job Category<br>ORIG DRILLING | Primary Job Type<br>ODR           | AFE Number<br>038152           |
| Days From Spud (days)<br>44   | Days on Location (days)<br>14     | End Depth (ftKB)<br>19,585.0   |
|                               | End Depth (TVD) (ftKB)<br>9,380.6 | Dens Last Mud (lb/gal)<br>8.30 |
|                               |                                   | Rig<br>PATTERSON - UTI, 802    |

#### Operations Summary

Drill 8 1/2" Production Lateral F/ 17,399' to 19,585'

#### Remarks

No Accidents, Incidents or Spills.

NPT for June:

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - .0, Total - 0

Last survey @ 19,369', Inc. 90.3°, Azm. 166.32°, 49' Above & 14.7' Right of Plan #3, Gamma 82, CBHT 205°F, Lateral 98% Complete

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail     | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|----------------|----------|----------|---------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/5/2016 06:00 | 6/5/2016 16:30 | 10.5     |          | DRILL               | DRL       | <p>Drill F/17399' T/18,277' (878' @ 84 fph), 100% Rot, 84.8% complete.<br/>MW-8.3 w/ 52 vis, full returns.</p> <p>? SPR's @ 17,522' &amp; 18,178'</p> <p>? Pumping 15-20 bbls of 20 ppb LCM every other connection to help control seepage - 8/10 bph, consisting of 10 ppb mica &amp; 10 ppb Cal carb. Running diesel @ 7 bph, water @ 2 bph.</p> <p>? RPM @ 75 F/17,899' - 18,084' &amp; 18,186' - 18,277' while controlling hard LH walk, 90 Hold RR.</p> <p>Lithology:<br/>17,400' - 90% SH, 10% LS<br/>17,500' - 80% SH, 20% LS<br/>17,560' - 90% SH, 10% LS<br/>17,620' - 80% SH, 20% LS<br/>17,710' - 90% SH, 10% LS<br/>17,740' - 80% SH, 20% LS<br/>17,890' - 90% SH, 20% LS<br/>18,100' - 80% SH, 20% LS<br/>18,220' - 80% SH, 20% LS</p> |
| 6/5/2016 16:30 | 6/5/2016 17:00 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC   | Service Rig. L/O T/O Dwks & TDS, Lubricate TD, Drawworks & Blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------|----------------|----------|----------|-----------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/5/2016 17:00 | 6/6/2016 06:00 | 13       |          | DRILL           | DRL       | <p>Drill F/18,277' T/19,585' (1,308' @ 101 fph), 100% Rot, 98% complete.<br/>MW-8.2+ w/ 53 vis, full returns.</p> <p>? SPR's @ 18,647' &amp; 19,211'</p> <p>? Pumping 15 - 20 bbls of 20 ppb LCM every other connection to help control seepage - 8/10 bph, consisting of 10 ppb mica &amp; 10 ppb Cal carb. Running diesel @ 7 bph, water @ 2 bph.</p> <p>? RPM @ 75 F/18,277' - 18,310' while controlling hard LH walk, 90 Hold RR.</p> <p>Lithology:<br/>18,290' - 90% SH, 10% LS<br/>18,380' - 80% SH, 20% LS<br/>18,500' - 70% SH, 30% LS<br/>18,590' - 80% SH, 20% LS<br/>18,770' - 90% SH, 10% LS<br/>18,890' - 80% SH, 20% LS<br/>19,070' - 70% SH, 30% LS<br/>19,130' - 80% SH, 20% LS<br/>19,160' - 60% SH, 40% LS<br/>19,220' - 80% SH, 20% LS<br/>19,250' - 90% SH, 10% LS</p> <p>? Ran 100% of previous 24 hours on 3 generators.</p> |

Report #: 16 Daily Operation: 6/6/2016 06:00 - 6/7/2016 06:00

|                               |                         |                      |
|-------------------------------|-------------------------|----------------------|
| Job Category<br>ORIG DRILLING | Primary Job Type<br>ODR | AFE Number<br>038152 |
|-------------------------------|-------------------------|----------------------|

|                             |                               |                              |                                   |                                |                             |
|-----------------------------|-------------------------------|------------------------------|-----------------------------------|--------------------------------|-----------------------------|
| Days From Spud (days)<br>45 | Days on Location (days)<br>15 | End Depth (ftKB)<br>19,795.0 | End Depth (TVD) (ftKB)<br>9,380.5 | Dens Last Mud (lb/gal)<br>8.20 | Rig<br>PATTERSON - UTI, 802 |
|-----------------------------|-------------------------------|------------------------------|-----------------------------------|--------------------------------|-----------------------------|

#### Operations Summary

Drill 8 1/2" Production Lateral F/ 19,585' to 19,795' TD, Cir K&M CUC, TOO, L/D DP

#### Remarks

No Accidents, Incidents or Spills.

#### NPT for June:

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - .0, Total - 0

Last survey @ 19,767', Inc. 89.9°, Azm. 164.81°, 49.5' Above & 15.4' Right of Plan #3, Gamma 112, CBHT 205°F, Lateral 100% Complete

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------|----------------|----------|----------|-----------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/6/2016 06:00 | 6/6/2016 08:00 | 2        |          | DRILL           | DRL       | <p>Drill F/19,585' T/19,795' (210' @ 105 fph), 100% Rot, 0% complete.<br/>MW-8.3 w/ 52 vis, full returns.</p> <p>? Pumping 20 bbls of 20 ppb LCM every other connection to help control seepage - 8/10 bph, consisting of 10 ppb mica &amp; 10 ppb Cal carb. Running diesel @ 7 bph, water @ 2 bph.</p> <p>Lithology:<br/>19,585' - 90% SH, 10% LS</p> <p>?? Last survey @ 19,767', Inc-89.9°, Azm-164.81°, 49.5' High &amp; 15.4' Right of plan #3, Gamma-112°, CBHT-205°F.</p> <p>? TD'd 8.5" Prod Lateral Sect on 6/6/16 @ 08:00 hrs.</p> |
| 6/6/2016 08:00 | 6/6/2016 08:30 | 0.5      |          | CIRCULATE       | CIRC      | <p>Circ. 5 Mins., Take Final Survey, Downlink RST to "Neutral", L/D Single.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail     | Operation     | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|----------------|----------|----------|---------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/6/2016 08:30 | 6/6/2016 19:30 | 11       |          | CIRCULATE           | CIRC          | Perform K&M clean up cycle with 9 BU a total of 89,550 stks, 586 Gpm's, 3360 spp, 100 Rpm's, reciprocate @ 75'/min.<br><br>Start: End:<br>P/U 245 P/U 238<br>S/O 185 S/O 224<br>Rot. 225 Rot. 224<br>TQ 8K TQ 7<br>PSI 3,545 PSI 3,320<br><br>? 1st BU - Shakers loaded up<br>? 2nd BU - Shakers loaded up<br>? 3rd BU - Saw slight increase at shakers<br>? 4th BU - Fine to small size cuttings at shakers<br>? Continue to see reducing waves of small grain size cuttings<br>5th - 7th B/U<br>? 8th BU - Shakers clean<br>? 9th BU - Shakers clean<br><br>?? Bushing puller joint staged to Drillers side of catwalk.<br>?? Staged Float equip., Cent. to rig floor.<br>?? Made sure all slips, collar clamps, etc. are dressed & ready to go / checked dies in ST-80 / Mud bucket ready for trip.<br>?? Thread protectors staged to rig floor.<br><br>??? Held PJSM W/Patterson Rig Crew & PNR Co. Man on LDDP while circulating. |
| 6/6/2016 19:30 | 6/6/2016 20:15 | 0.75     |          | TOOH - ELEVATOR     | TOOH_E<br>LEV | TOOH on elevators, Pull 10 stands wet (pull test) F/19,772' - 18, 835'. Pulling @ 290K W/max overpull of 370K @ 19,520, Acts like pulling stabilized assy. (RST). Hole taking proper fill from trip tanks, no dirty hole indications observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6/6/2016 20:15 | 6/6/2016 20:30 | 0.25     |          | FLOW CHECK          | FLOW_C<br>HK  | Check F/flow to trip tank, Well static, Pump slug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6/6/2016 20:30 | 6/7/2016 04:00 | 7.5      |          | L/D BHA             | L/D BHA       | L/D DP F/18,835' - 9,798', Hole taking proper fill from trip tanks, no dirty hole indications observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6/7/2016 04:00 | 6/7/2016 04:30 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC       | Rig Service, Lubricate Catwalk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6/7/2016 04:30 | 6/7/2016 06:00 | 1.5      |          | L/D BHA             | L/D BHA       | L/D DP F/9,798' - 7,495', Hole taking proper fill from trip tanks, no dirty hole indications observed.<br><br>? Ran 80% of previous 24 hours on 3 generators, remainder on 2 generators.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Report #: 17 Daily Operation: 6/7/2016 06:00 - 6/8/2016 06:00

|                               |                                   |                                |
|-------------------------------|-----------------------------------|--------------------------------|
| Job Category<br>ORIG DRILLING | Primary Job Type<br>ODR           | AFE Number<br>038152           |
| Days From Spud (days)<br>46   | Days on Location (days)<br>16     | End Depth (ftKB)<br>19,795.0   |
|                               | End Depth (TVD) (ftKB)<br>9,380.5 | Dens Last Mud (lb/gal)<br>8.20 |
|                               |                                   | Rig<br>PATTERSON - UTI, 802    |

#### Operations Summary

L/D DP, L/D RST Assembly, PWB, RU & RIH w/ 5.5" Prod Csg

#### Remarks

No Accidents, Incidents or Spills.

#### NPT for June:

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - .0, Total - 0

Last survey @ 19,767', Inc. 89.9°, Azm. 164.81°, 49.5' Above & 15.4' Right of Plan #3, Gamma 112, CBHT 205°F, Lateral 100% Complete

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation     | Com                                                                                                                                            |
|----------------|----------------|----------|----------|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/7/2016 06:00 | 6/7/2016 13:45 | 7.75     |          | TOOH - ELEVATOR | TOOH_E<br>LEV | L/D DP F/7,495' - BHA., Hole taking proper fill from trip tanks, no dirty hole indications observed.<br><br>? Del's on location inspection DP. |
| 6/7/2016 13:45 | 6/7/2016 14:00 | 0.25     |          | SAFETY          | SFTY          | PJSM w/ Patt, PNR & Leam - BHA Handling                                                                                                        |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

| Time Log Summary |                |          |          |                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|----------------|----------|----------|---------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Start Date       | End Date       | Dur (hr) | Activity | Activity Detail     | Operation       | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 6/7/2016 14:00   | 6/7/2016 15:00 | 1        |          | L/D BHA             | L/D BHA         | Drain MM, LD break bit, UBHO, float sub, NMDC, pony, MM<br>? Bit Graded: 1-2-WT-S-X-0-CT-TD<br>? MM had no excessive wear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6/7/2016 15:00   | 6/7/2016 15:45 | 0.75     |          | WELLHEAD            | WH              | PJSM w/ Patt & PNR - Proper wear bushing pulling procedures<br>PU jt DP w/ wear bushing retrieval tool already MU<br>Backout lockin pins & gland nuts w/ PNR rep present.<br>Pull & inspect short wear bushing,                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6/7/2016 15:45   | 6/7/2016 16:00 | 0.25     |          | SAFETY              | SFTY            | Remove all tools & clean off OBM from floor from trip, straighten up & prep to RU csg tools.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 6/7/2016 16:00   | 6/7/2016 16:30 | 0.5      |          | PLANNED RIG SERVICE | RIG_SVC         | Service Rig. L/O T/O Dwks & TDS, Lubricate TD, Drawworks & Blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 6/7/2016 16:30   | 6/7/2016 16:45 | 0.25     |          | SAFETY              | SFTY            | PJSM w/ Patt, Franks, Weatherford, Frontier, Superior & PNR - RU & running 5.5" csg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 6/7/2016 16:45   | 6/7/2016 18:00 | 1.25     |          | RIG UP              | RU              | RU casing tools, CRT & torque turn equipment.<br>Perform safety inspection on tools.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6/7/2016 18:00   | 6/7/2016 19:00 | 1        |          | RUN CSG W/O WASH    | CSG_W/<br>OWASH | PU & MU 2 jt shoe track & test floats - Good<br>? Single valve down jet float shoe<br>? 2 jts of csg<br>? Float collar w/latch-in plate<br>? Single csg jt<br>? Time delayed toe sleeve - WFD<br>? Single csg jt<br>Thread locking all connections up to bottom of toe sleeve.<br><br>? Note: All csg components are 5-1/2" 20# P-110IC TXP-BTC<br>? Optimum MU Tq = 12,520 ft/lbs, monitored w/ tq turn<br><br>?Toe Sleeve Information: (PSI to Activate Sleeve)<br>Burst Disk Rating 12,754 psi<br>Min Surface Applied 8,431 psi<br>Nom Surface Applied 8,686 psi<br>Max Surface Applied 8,941 psi<br>Estimated Time Delay 15 min |
| 6/7/2016 19:00   | 6/8/2016 06:00 | 11       |          | RUN CSG W/O WASH    | CSG_W/<br>OWASH | Run 5.5" prod'n csg F/198' to 9,118'<br>Fill & break circ every 40 jts. Hole giving proper closed end displacement.<br><br>? Avg ID of 10 jts - 4.84375"<br>? OD of csg collars - 6.09375"<br>? ID of csg elevators - 5.625"<br><br>? Ran 100% of previous 24 hours on 2 generators.                                                                                                                                                                                                                                                                                                                                                |

Report #: 18 Daily Operation: 6/8/2016 06:00 - 6/9/2016 06:00

|                               |                               |                              |                                   |                                |                             |                      |
|-------------------------------|-------------------------------|------------------------------|-----------------------------------|--------------------------------|-----------------------------|----------------------|
| Job Category<br>ORIG DRILLING |                               |                              | Primary Job Type<br>ODR           |                                |                             | AFE Number<br>038152 |
| Days From Spud (days)<br>47   | Days on Location (days)<br>17 | End Depth (ftKB)<br>19,795.0 | End Depth (TVD) (ftKB)<br>9,380.5 | Dens Last Mud (lb/gal)<br>8.20 | Rig<br>PATTERSON - UTI, 802 |                      |

Operations Summary  
Run, Land, Circ. & Cement 5 1/2" Prod. Csg., Inst. Packoff, Flush Stack & Mudlines

Remarks  
See Incident Report

NPT for June:  
Patterson: Past 24 hr - 0, Total - 0  
3rd Party: Past 24 hr - .0, Total - 0

Final survey @ 19,767', Inc. 89.9°, Azm. 164.81°, 49.5' Above & 15.4' Right of Plan #3, Gamma 112, CBHT 205°F, Lateral 100% Complete

| Time Log Summary |                |          |          |                  |                 |                                                                                                                                                                                       |
|------------------|----------------|----------|----------|------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Start Date       | End Date       | Dur (hr) | Activity | Activity Detail  | Operation       | Com                                                                                                                                                                                   |
| 6/8/2016 06:00   | 6/8/2016 07:00 | 1        |          | RUN CSG W/O WASH | CSG_W/<br>OWASH | Run 5.5" prod'n csg F/ 9,118' to 10,087'<br>Fill & break circ every 40 jts. Hole giving proper closed end displacement.<br><br>? Optimum MU Tq = 12,520 ft/lbs, monitored w/ tq turn. |



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

| Time Log Summary |                |           |          |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|----------------|-----------|----------|------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Start Date       | End Date       | Dur (hr)  | Activity | Activity Detail  | Operation       | Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6/8/2016 07:00   | 6/8/2016 08:15 | 1.25      |          | CIRCULATE        | CIRC            | Circ. B/U (4,800 stks) @ 10,087' (Base of curve) @ 8 bpm, 340 psi, full returns to surface.<br>MW 8.2 Vis 53<br><br>? Max gas seen @ B/U = 193 Units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 6/8/2016 08:15   | 6/8/2016 20:30 | 12.2<br>5 |          | RUN CSG W/O WASH | CSG_W/<br>OWASH | Run 5.5" prod'n csg F/ 10,087' to 19,740'<br>Fill & break circ every 40 jts. Hole giving proper closed end displacement.<br><br>? Optimum MU Tq = 12,520 ft/lbs, monitored w/ tq turn.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6/8/2016 20:30   | 6/8/2016 20:45 | 0.25      |          | RUN CSG W/O WASH | CSG_W/<br>OWASH | Pick up casing hanger & landing joint, land casing in well head.<br>Seaboard/Weir Rep. & PNR Co. Man Witness. Casing set at 19,776' MD<br><br>?Seaboard/Weir Rep. confirmed all lock pins backed out prior to landing.<br><br>Marker 1 8,661'<br>Marker 2 8,890'<br>Marker 3 14,807'<br>Toe Sleeve 19,629'<br>Float Collar 19,687'<br>Shoe 19,776'<br><br>Ran 40 Rigid Body Centralizers.                                                                                                                                                                                                                                                                         |
| 6/8/2016 20:45   | 6/8/2016 22:30 | 1.75      |          | CIRCULATE        | CIRC            | R/D Casing tools from floor and R/U Cement Iron to floor while circulating 1.5 times casing volume @ 8 bbl/min, 525 psi. Full returns to surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 6/8/2016 22:30   | 6/8/2016 22:45 | 0.25      |          | SAFETY           | SFTY            | PJSM W/Patterson Crew, RM, PNR Rep., PNR HSE Rep., SLB & Miller & Assoc. Mud Eng'r. On cementing production casing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6/8/2016 22:45   | 6/8/2016 23:15 | 0.5       |          | RIG UP           | RU              | R/D CRT, R/U Cement Head                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6/8/2016 23:15   | 6/9/2016 03:00 | 3.75      |          | CEMENT           | CMT             | Cement 5 1/2" casing:<br><br>Pump 50 bbl Fresh Water, Flush lines to pit<br><br>Test lines to 4,500 psi<br><br>Drop Bottom Plug @ 23:26<br><br>Pump 50 bbl spacer (9.5 ppg Mud Push);<br>Pump 165 bbls lead cement (374 sacks, 2.48 ft³/sk yield, mixed @ 11.5 ppg)<br>Pump 464 bbls tail cement (1,664 sacks, 1.57 ft³/sk yield, mixed @ 13.2 ppg)<br><br>Drop Top Plug @ 01:36<br><br>Wash up lines to outside reserve pit.<br><br>Displace w/437 bbl H2O 8.3 ppg; land plug @ 4.2 bbls/min. and bump plug @ 02:47 with 1,530 psi over FCP of 1,720 psi to 3,250 psi, Held 5 Min., Bled back 5 bbls to truck, Floats held. Full returns through out cement job. |
| 6/9/2016 03:00   | 6/9/2016 03:15 | 0.25      |          | RIG DOWN         | RD              | R/D SLB cement head and iron from floor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6/9/2016 03:15   | 6/9/2016 04:45 | 1.5       |          | WELLHEAD         | WH              | Drain stack, remove landing joint, install pack off, energize seals and tighten all lock pins and gland nuts. Pull setting tool & L/D Landing joint.<br><br>? PNR Rep. Witness operation.<br><br>? Confined Space Permit in Place                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 6/9/2016 04:45   | 6/9/2016 06:00 | 1.25      |          | CEMENT           | CMT             | Flush through all mud lines & BOP stack, Drain Stack & blow down lines.<br><br>? PJSM W/Edge on N/D BOP<br><br>? Edge 4 bolting stack while flushing lines & stack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

Report #: 19 Daily Operation: 6/9/2016 06:00 - 6/9/2016 18:00

|                               |                               |                              |                                   |                        |                             |
|-------------------------------|-------------------------------|------------------------------|-----------------------------------|------------------------|-----------------------------|
| Job Category<br>ORIG DRILLING |                               |                              | Primary Job Type<br>ODR           |                        | AFE Number<br>038152        |
| Days From Spud (days)<br>47   | Days on Location (days)<br>17 | End Depth (ftKB)<br>19,795.0 | End Depth (TVD) (ftKB)<br>9,380.5 | Dens Last Mud (lb/gal) | Rig<br>PATTERSON - UTI, 802 |

### Operations Summary

N/D BOP, Inst. & Test Aban. Cap, Clean Pits, Release Rig to Scharbauer Ranch 3144H

### Remarks

No Accidents, Incidents or Spills.

NPT for June:

Patterson: Past 24 hr - 0, Total - 0

3rd Party: Past 24 hr - .0, Total - 0

Final survey @ 19,767', Inc. 89.9°, Azm. 164.81°, 49.5' Above & 15.4' Right of Plan #3, Gamma 112, CBHT 205°F, Lateral 100% Complete

### Time Log Summary

| Start Date     | End Date       | Dur (hr) | Activity | Activity Detail | Operation | Com                                                                                                                                                                                                                                                                                                                               |
|----------------|----------------|----------|----------|-----------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6/9/2016 06:00 | 6/9/2016 08:00 | 2        |          | CEMENT          | CMT       | Cont Flushing through all mud lines & BOP stack, Drain Stack & blow down lines.<br><br>PJSM W/Edge on N/D BOP.                                                                                                                                                                                                                    |
| 6/9/2016 08:00 | 6/9/2016 13:30 | 5.5      |          | N/D BOPE        | ND_BOP E  | N/D flow line, Orbit Valve, BOP, kill line, choke line. R/D catch can, Koomey lines. Pull spool, L/D BOP. Install night cap & test, 500 psi/15 mins.<br><br>** Meyers crew on location cleaning pits.                                                                                                                             |
| 6/9/2016 13:30 | 6/9/2016 18:00 | 4.5      |          | RIG DOWN        | RD        | Cont. cleaning pits. R/D misc., separator, flow line extensions. R/D mud lines. Move DP & Misc to new location. Park TD, unspool drawworks, slip & cut 100' Drill line. R/D Bails, ODS stairs, Remove flowline F/Sub, R/D Misc. in backyard.<br><br>? Pits Clean & Rig released to Scharbauer Ranch 3144H @ 18:00 hours, 6/9/2016 |

### WELL DETAILS

|                                  |                              |                                            |
|----------------------------------|------------------------------|--------------------------------------------|
| Well Name<br>UNIVERSITY 7-43 38H | API/UWI<br>42-003-47346-0000 | Operator<br>PIONEER NATURAL RESRC USA, INC |
|----------------------------------|------------------------------|--------------------------------------------|

### Wellbore Hole Size

| Section Des  | Size (in) | Act Top (ftKB) | Act Btm (ftKB) | Start Date | End Date  |
|--------------|-----------|----------------|----------------|------------|-----------|
| Conductor    | 30        | 29.0           | 129.0          | 3/30/2016  | 3/30/2016 |
| Surface      | 17 1/2    | 129.0          | 2,010.0        | 4/23/2016  | 4/24/2016 |
| INTERMEDIATE | 12 1/4    | 2,010.0        | 6,040.0        | 4/25/2016  | 4/27/2016 |
| PRODUCTION   | 8 3/4     | 6,040.0        | 10,100.0       | 4/27/2016  | 6/1/2016  |
| PRODUCTION 2 | 8 1/2     | 10,100.0       | 19,795.0       | 6/2/2016   | 6/6/2016  |

### Conductor Casing

|                       |                           |         |                 |       |              |     |            |            |
|-----------------------|---------------------------|---------|-----------------|-------|--------------|-----|------------|------------|
| Run Date              | Set Depth (ftKB)<br>100.0 |         |                 |       | Centralizers |     |            |            |
| Item Des              | OD (in)                   | ID (in) | Wt/Lgth (lb/ft) | Grade | Len (ft)     | Jts | Top (ftKB) | Btm (ftKB) |
| CONDUCTOR             | 20                        | 19.25   | 94.00           | L-80  | 100.00       | 1   | 0.0        | 100.0      |
| Run Date<br>3/30/2016 | Set Depth (ftKB)<br>129.0 |         |                 |       | Centralizers |     |            |            |
| Item Des              | OD (in)                   | ID (in) | Wt/Lgth (lb/ft) | Grade | Len (ft)     | Jts | Top (ftKB) | Btm (ftKB) |
| CONDUCTOR             | 20                        | 19.625  | 78.60           | H-40  | 100.00       | 2   | 29.0       | 129.0      |

### Surface Casing

|                             |                       |         |                 |       |          |     |            |            |
|-----------------------------|-----------------------|---------|-----------------|-------|----------|-----|------------|------------|
| Set Depth (ftKB)<br>2,000.0 | Run Date<br>3/1/2016  |         | Centralizers    |       |          |     |            |            |
| Item Des                    | OD (in)               | ID (in) | Wt/Lgth (lb/ft) | Grade | Len (ft) | Jts | Top (ftKB) | Btm (ftKB) |
| CASING JOINTS               | 13 3/8                | 12.615  | 54.50           | J-55  | 2,000.00 | 50  | 0.0        | 2,000.0    |
| Set Depth (ftKB)<br>2,010.0 | Run Date<br>4/24/2016 |         | Centralizers    |       |          |     |            |            |
| Item Des                    | OD (in)               | ID (in) | Wt/Lgth (lb/ft) | Grade | Len (ft) | Jts | Top (ftKB) | Btm (ftKB) |
| CASING JOINTS               | 13 3/8                | 12.615  | 54.50           | J-55  | 1,972.39 | 48  | -5.6       | 1,966.8    |
| FLOAT COLLAR                | 13 3/8                | 12.615  |                 | J-55  | 1.45     | 1   | 1,966.8    | 1,968.3    |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

| Item Des                     |                                        | OD (in)                           | ID (in)                       | Wt/Lgth (lb/ft)                 | Grade    | Len (ft)                          | Jts                       | Top (ftKB)            | Btm (ftKB)            |
|------------------------------|----------------------------------------|-----------------------------------|-------------------------------|---------------------------------|----------|-----------------------------------|---------------------------|-----------------------|-----------------------|
| CASING JOINTS                |                                        | 13 3/8                            | 12.615                        | 54.50                           | J-55     | 39.71                             | 1                         | 1,968.3               | 2,008.0               |
| FLOAT SHOE                   |                                        | 13 3/8                            | 12.615                        |                                 | J-55     | 2.00                              | 1                         | 2,008.0               | 2,010.0               |
| Surface Casing Cement        |                                        |                                   |                               |                                 |          |                                   |                           |                       |                       |
| Type<br>Casing               | String<br>SURFACE, 2,010.0ftKB         | Cementing Start Date<br>4/21/2016 |                               | Cementing End Date<br>4/21/2016 |          | Cementing Company<br>SCHLUMBERGER |                           | Top (ftKB)<br>29.0    | Btm (ftKB)<br>2,010.0 |
| Class<br>0                   | Amount (sacks)<br>0                    |                                   |                               | Yield (ft³/sack)                |          |                                   | Density (lb/gal)<br>8.30  |                       |                       |
| Class<br>Class C             | Amount (sacks)<br>1,344                |                                   |                               | Yield (ft³/sack)<br>1.69        |          |                                   | Density (lb/gal)<br>13.00 |                       |                       |
| Class<br>Class C             | Amount (sacks)<br>377                  |                                   |                               | Yield (ft³/sack)<br>1.68        |          |                                   | Density (lb/gal)<br>13.60 |                       |                       |
| Class<br>Displace            | Amount (sacks)<br>0                    |                                   |                               | Yield (ft³/sack)<br>0.00        |          |                                   | Density (lb/gal)<br>8.34  |                       |                       |
| Intermediate Casing          |                                        |                                   |                               |                                 |          |                                   |                           |                       |                       |
| Set Depth (ftKB)<br>6,022.0  | Run Date<br>4/28/2016                  |                                   | Centralizers<br>13            |                                 |          |                                   |                           |                       |                       |
| Item Des                     |                                        | OD (in)                           | ID (in)                       | Wt/Lgth (lb/ft)                 | Grade    | Len (ft)                          | Jts                       | Top (ftKB)            | Btm (ftKB)            |
| CASING JOINTS                |                                        | 9 5/8                             | 8.835                         | 40.00                           | L-80 IC  | 0.00                              | 0                         | -3.4                  | -3.4                  |
| LANDING JOINT                |                                        | 9 5/8                             | 8.835                         |                                 |          | 35.00                             | 1                         | -3.4                  | 31.6                  |
| CASING HANGER                |                                        | 9 5/8                             | 8.835                         |                                 |          | 4.00                              | 1                         | 31.6                  | 35.6                  |
| CASING JOINTS                |                                        | 9 5/8                             | 8.835                         | 40.00                           | L-80 IC  | 5,888.31                          | 127                       | 35.6                  | 5,923.9               |
| FLOAT COLLAR                 |                                        | 9 5/8                             | 8.835                         | 40.00                           | L-80     | 2.00                              | 1                         | 5,923.9               | 5,925.9               |
| CASING JOINTS                |                                        | 9 5/8                             | 8.835                         | 40.00                           | L-80 IC  | 94.06                             | 2                         | 5,925.9               | 6,020.0               |
| FLOAT SHOE                   |                                        | 9 5/8                             | 8.835                         | 40.00                           | L-80     | 2.00                              | 1                         | 6,020.0               | 6,022.0               |
| Set Depth (ftKB)<br>6,100.0  | Run Date<br>3/1/2016                   |                                   | Centralizers                  |                                 |          |                                   |                           |                       |                       |
| Item Des                     |                                        | OD (in)                           | ID (in)                       | Wt/Lgth (lb/ft)                 | Grade    | Len (ft)                          | Jts                       | Top (ftKB)            | Btm (ftKB)            |
| CASING JOINTS                |                                        | 9 5/8                             | 8.835                         | 40.00                           | L-80 IC  | 6,100.00                          | 153                       | 0.0                   | 6,100.0               |
| Intermediate Casing Cement   |                                        |                                   |                               |                                 |          |                                   |                           |                       |                       |
| Type<br>Casing               | String<br>INTERMEDIATE,<br>6,022.0ftKB | Cementing Start Date<br>4/28/2016 |                               | Cementing End Date<br>4/28/2016 |          | Cementing Company<br>SCHLUMBERGER |                           | Top (ftKB)<br>3,445.0 | Btm (ftKB)<br>6,040.0 |
| Class<br>Water               | Amount (sacks)<br>0                    |                                   |                               | Yield (ft³/sack)                |          |                                   | Density (lb/gal)<br>8.34  |                       |                       |
| Class<br>Mudpush Epress      | Amount (sacks)<br>0                    |                                   |                               | Yield (ft³/sack)                |          |                                   | Density (lb/gal)<br>11.00 |                       |                       |
| Class<br>CLASS C             | Amount (sacks)<br>629                  |                                   |                               | Yield (ft³/sack)<br>2.56        |          |                                   | Density (lb/gal)<br>11.50 |                       |                       |
| Class<br>CLASS C             | Amount (sacks)<br>321                  |                                   |                               | Yield (ft³/sack)<br>1.33        |          |                                   | Density (lb/gal)<br>14.80 |                       |                       |
| Class<br>OBM                 | Amount (sacks)<br>0                    |                                   |                               | Yield (ft³/sack)                |          |                                   | Density (lb/gal)<br>8.40  |                       |                       |
| Production Casing            |                                        |                                   |                               |                                 |          |                                   |                           |                       |                       |
| Set Depth (ftKB)<br>19,776.0 | Run Date<br>6/8/2016                   |                                   | Centralizers<br>40 Solid Body |                                 |          |                                   |                           |                       |                       |
| Item Des                     |                                        | OD (in)                           | ID (in)                       | Wt/Lgth (lb/ft)                 | Grade    | Len (ft)                          | Jts                       | Top (ftKB)            | Btm (ftKB)            |
| MARKER JOINT                 |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110    | 0.00                              | 0                         | -3.4                  | -3.4                  |
| CASING JOINTS                |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110 IC | 0.00                              | 0                         | -3.4                  | -3.4                  |
| LANDING JOINT                |                                        | 5 1/2                             | 4.778                         |                                 |          | 34.93                             | 1                         | -3.4                  | 31.5                  |
| CASING HANGER                |                                        | 5 1/2                             | 4.778                         |                                 |          | 4.00                              | 1                         | 31.5                  | 35.5                  |
| CASING JOINTS                |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110 IC | 8,625.88                          | 208                       | 35.5                  | 8,661.4               |
| MARKER JOINT                 |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110    | 19.85                             | 1                         | 8,661.4               | 8,681.3               |
| CASING JOINTS                |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110 IC | 209.12                            | 5                         | 8,681.3               | 8,890.4               |
| MARKER JOINT                 |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110    | 19.86                             | 1                         | 8,890.4               | 8,910.2               |
| CASING JOINTS                |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110 IC | 5,896.68                          | 142                       | 8,910.2               | 14,806.9              |
| MARKER JOINT                 |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110    | 19.83                             | 1                         | 14,806.9              | 14,826.8              |
| CASING JOINTS                |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110 IC | 4,792.15                          | 116                       | 14,826.8              | 19,618.9              |
| PUP JOINT                    |                                        | 5 1/2                             | 4.778                         |                                 |          | 10.24                             | 1                         | 19,618.9              | 19,629.1              |
| TOE SLEEVE - WTF             |                                        | 6 1/2                             | 3.75                          | 26.00                           | P-110    | 5.62                              | 1                         | 19,629.1              | 19,634.8              |
| PUP JOINT                    |                                        | 5 1/2                             | 4.778                         |                                 |          | 10.20                             | 1                         | 19,634.8              | 19,645.0              |
| CASING JOINTS                |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110 IC | 42.13                             | 1                         | 19,645.0              | 19,687.1              |
| FLOAT COLLAR                 |                                        | 5 1/2                             | 4.548                         | 26.00                           | P-110    | 1.60                              | 1                         | 19,687.1              | 19,688.7              |
| CASING JOINTS                |                                        | 5 1/2                             | 4.778                         | 20.00                           | P-110 IC | 84.61                             | 2                         | 19,688.7              | 19,773.3              |
|                              |                                        |                                   |                               |                                 |          |                                   |                           |                       |                       |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

| Item Des                                      | OD (in)                            | ID (in)                          | Wt/Lgth (lb/ft)                | Grade                             | Len (ft)               | Jts                         | Top (ftKB)        | Btm (ftKB)          |       |    |
|-----------------------------------------------|------------------------------------|----------------------------------|--------------------------------|-----------------------------------|------------------------|-----------------------------|-------------------|---------------------|-------|----|
| FLOAT SHOE                                    | 5 1/2                              | 4.548                            | 26.00                          | P-110                             | 2.70                   | 1                           | 19,773.3          | 19,776.0            |       |    |
| Set Depth (ftKB)<br>20,239.0                  | Run Date<br>3/1/2016               | Centralizers                     |                                |                                   |                        |                             |                   |                     |       |    |
| Item Des                                      | OD (in)                            | ID (in)                          | Wt/Lgth (lb/ft)                | Grade                             | Len (ft)               | Jts                         | Top (ftKB)        | Btm (ftKB)          |       |    |
| CASING JOINTS                                 | 5 1/2                              | 4.766                            | 20.00                          | P-110 IC                          | 20,239.00              | 506                         | 0.0               | 20,239.0            |       |    |
| <b>Production Casing Cement</b>               |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Type<br>Casing                                | String<br>PRODUCTION, 19,776.0ftKB | Cementing Start Date<br>6/8/2016 | Cementing End Date<br>6/9/2016 | Cementing Company<br>SCHLUMBERGER | Top (ftKB)<br>5,500.0  | Btm (ftKB)<br>19,730.0      |                   |                     |       |    |
| Class<br>MUDPUSH                              | Amount (sacks)<br>0                | Yield (ft³/sack)                 | Density (lb/gal)<br>9.50       |                                   |                        |                             |                   |                     |       |    |
| Class<br>CLASS H                              | Amount (sacks)<br>374              | Yield (ft³/sack)<br>2.48         | Density (lb/gal)<br>11.50      |                                   |                        |                             |                   |                     |       |    |
| Class<br>CLASS H                              | Amount (sacks)<br>1,664            | Yield (ft³/sack)<br>1.57         | Density (lb/gal)<br>13.20      |                                   |                        |                             |                   |                     |       |    |
| Class<br>DISPLACEMENT                         | Amount (sacks)<br>0                | Yield (ft³/sack)                 | Density (lb/gal)<br>8.33       |                                   |                        |                             |                   |                     |       |    |
| <b>Cement Squeeze</b>                         |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Description                                   | Type                               | String                           | Cementing Start Date           | Cementing End Date                | Top (ftKB)             | Btm (ftKB)                  |                   |                     |       |    |
| Amount (sacks)                                | Yield (ft³/sack)                   | Dens (lb/gal)                    |                                |                                   |                        |                             |                   |                     |       |    |
| <b>Perforations</b>                           |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Top (ftKB)                                    | Btm (ftKB)                         | Linked Zone                      | Shot Dens (shots/ft)           | Entered Shot Total                | Com                    |                             |                   |                     |       |    |
|                                               |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| <b>Stimulations &amp; Treatments (Actual)</b> |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| <Interval Number?>, <Zone?>                   |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Date                                          | Type                               | Stim/Treat Company               | Top Depth (ftKB)               | Bottom Depth (ftKB)               | Proppant Total (lb)    | Total Clean Vol (bbl)       |                   |                     |       |    |
| <b>Zones</b>                                  |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Zone Name                                     |                                    |                                  |                                |                                   |                        | Top (ftKB)                  |                   |                     |       |    |
|                                               |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| <b>Tubing Details</b>                         |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Tubing Description                            |                                    |                                  |                                | Set Depth (ftKB)                  | Run Date               |                             |                   |                     |       |    |
| <b>Tubing Components</b>                      |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Item Des                                      | OD (in)                            | Wt (lb/ft)                       | Grade                          | Len (ft)                          | Jts                    | Top (ftKB)                  | Btm (ftKB)        |                     |       |    |
|                                               |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| <b>Rod Strings</b>                            |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Rod Description                               |                                    |                                  |                                | Set Depth (ftKB)                  | Run Date               |                             |                   |                     |       |    |
| <b>Rod Components</b>                         |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Item Des                                      | OD (in)                            | Wt (lb/ft)                       | Grade                          | Len (ft)                          | Jts                    | Top (ftKB)                  | Btm (ftKB)        | Make                | Model | SN |
|                                               |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| <b>Well Tests</b>                             |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Description                                   |                                    |                                  |                                | Volume Oil Total (bbl)            | Volume Gas Total (MCF) | Volume Water Total (bbl)    |                   |                     |       |    |
| Start Date                                    | End Date                           | Sz Dia Choke (in)                | P Tub End (psi)                | P Cas End (psi)                   | Com                    | Vol Oil Tot (bbl)           | Vol Gas Tot (MCF) | Vol Water Tot (bbl) |       |    |
|                                               |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| <b>Directional Survey</b>                     |                                    |                                  |                                |                                   |                        |                             |                   |                     |       |    |
| Date                                          |                                    | Description<br>ACTUAL SURVEY     |                                |                                   |                        |                             |                   |                     |       |    |
| Date                                          | MD (ftKB)                          | Incl (°)                         | Azm (°)                        | TVD (ftKB)                        | Unwrap Displace (ft)   | Survey Company              |                   |                     |       |    |
| 4/23/2016                                     | 222.00                             | 0.40                             | 72.90                          | 222.00                            | 0.77                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 312.00                             | 0.60                             | 68.70                          | 311.99                            | 1.56                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 403.00                             | 0.80                             | 66.30                          | 402.99                            | 2.67                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 493.00                             | 0.70                             | 68.60                          | 492.98                            | 3.85                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 583.00                             | 0.70                             | 90.80                          | 582.97                            | 4.93                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 678.00                             | 1.00                             | 93.50                          | 677.96                            | 6.34                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 768.00                             | 0.80                             | 109.80                         | 767.95                            | 7.74                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 858.00                             | 0.50                             | 114.30                         | 857.95                            | 8.76                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 952.00                             | 0.50                             | 115.80                         | 951.94                            | 9.58                   | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 1,046.00                           | 0.70                             | 118.90                         | 1,045.94                          | 10.56                  | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |
| 4/23/2016                                     | 1,140.00                           | 0.60                             | 114.50                         | 1,139.93                          | 11.63                  | LEAM DRILLING SYSTEMS, INC. |                   |                     |       |    |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

| Date      | MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | Unwrap Displace (ft) | Survey Company              |
|-----------|-----------|----------|---------|------------|----------------------|-----------------------------|
| 4/23/2016 | 1,234.00  | 0.50     | 133.10  | 1,233.93   | 12.52                | LEAM DRILLING SYSTEMS, INC. |
| 4/23/2016 | 1,327.00  | 0.30     | 129.50  | 1,326.92   | 13.17                | LEAM DRILLING SYSTEMS, INC. |
| 4/23/2016 | 1,421.00  | 0.30     | 121.60  | 1,420.92   | 13.66                | LEAM DRILLING SYSTEMS, INC. |
| 4/23/2016 | 1,514.00  | 0.10     | 187.10  | 1,513.92   | 13.94                | LEAM DRILLING SYSTEMS, INC. |
| 4/23/2016 | 1,608.00  | 0.40     | 154.30  | 1,607.92   | 14.34                | LEAM DRILLING SYSTEMS, INC. |
| 4/23/2016 | 1,702.00  | 0.20     | 183.00  | 1,701.92   | 14.82                | LEAM DRILLING SYSTEMS, INC. |
| 4/23/2016 | 1,796.00  | 0.30     | 175.90  | 1,795.92   | 15.23                | LEAM DRILLING SYSTEMS, INC. |
| 4/23/2016 | 1,890.00  | 0.20     | 182.70  | 1,889.92   | 15.64                | LEAM DRILLING SYSTEMS, INC. |
| 4/24/2016 | 1,952.00  | 0.10     | 257.50  | 1,951.92   | 15.77                | LEAM DRILLING SYSTEMS, INC. |
| 4/25/2016 | 2,077.00  | 0.40     | 283.70  | 2,076.92   | 16.31                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,171.00  | 0.40     | 281.30  | 2,170.92   | 16.97                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,265.00  | 0.20     | 277.50  | 2,264.91   | 17.46                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,359.00  | 0.50     | 273.40  | 2,358.91   | 18.03                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,453.00  | 0.40     | 262.40  | 2,452.91   | 18.77                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,546.00  | 0.40     | 273.70  | 2,545.91   | 19.41                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,641.00  | 1.10     | 66.60   | 2,640.90   | 20.05                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,735.00  | 1.80     | 75.80   | 2,734.87   | 22.42                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,828.00  | 2.80     | 55.10   | 2,827.80   | 26.09                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 2,922.00  | 3.60     | 52.20   | 2,921.65   | 31.34                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,016.00  | 3.40     | 56.50   | 3,015.47   | 37.07                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,110.00  | 4.50     | 53.30   | 3,109.25   | 43.55                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,204.00  | 6.40     | 54.90   | 3,202.82   | 52.47                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,297.00  | 6.70     | 58.20   | 3,295.21   | 63.08                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,391.00  | 7.80     | 59.20   | 3,388.46   | 74.94                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,485.00  | 8.60     | 61.20   | 3,481.50   | 88.34                | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,578.00  | 10.00    | 60.50   | 3,573.27   | 103.37               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,672.00  | 11.00    | 59.80   | 3,665.70   | 120.50               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,766.00  | 11.30    | 60.30   | 3,757.93   | 138.68               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,860.00  | 11.80    | 55.20   | 3,850.02   | 157.48               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 3,953.00  | 12.40    | 53.10   | 3,940.96   | 176.97               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 4,047.00  | 12.30    | 52.60   | 4,032.78   | 197.08               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 4,141.00  | 12.70    | 53.30   | 4,124.55   | 217.42               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 4,234.00  | 12.50    | 54.10   | 4,215.31   | 237.71               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 4,328.00  | 12.40    | 53.30   | 4,307.10   | 257.98               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 4,422.00  | 12.60    | 53.00   | 4,398.88   | 278.32               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 4,515.00  | 13.00    | 54.10   | 4,489.56   | 298.92               | LEAM DRILLING SYSTEMS, INC. |
| 4/26/2016 | 4,609.00  | 12.60    | 55.50   | 4,581.23   | 319.75               | LEAM DRILLING SYSTEMS, INC. |
| 4/27/2016 | 4,703.00  | 12.10    | 55.90   | 4,673.05   | 339.85               | LEAM DRILLING SYSTEMS, INC. |
| 4/27/2016 | 4,796.00  | 11.60    | 55.40   | 4,764.07   | 358.95               | LEAM DRILLING SYSTEMS, INC. |
| 4/27/2016 | 4,890.00  | 11.10    | 57.20   | 4,856.23   | 377.45               | LEAM DRILLING SYSTEMS, INC. |
| 4/27/2016 | 4,984.00  | 10.80    | 57.00   | 4,948.52   | 395.30               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,077.00  | 10.50    | 55.60   | 5,039.92   | 412.49               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,171.00  | 10.60    | 55.00   | 5,132.33   | 429.70               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,265.00  | 10.60    | 55.60   | 5,224.73   | 446.99               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,359.00  | 10.80    | 57.10   | 5,317.09   | 464.44               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,453.00  | 10.80    | 57.70   | 5,409.43   | 482.06               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,547.00  | 10.30    | 58.00   | 5,501.84   | 499.27               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,640.00  | 9.90     | 59.20   | 5,593.40   | 515.57               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,734.00  | 9.20     | 58.10   | 5,686.09   | 531.17               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,828.00  | 9.00     | 59.30   | 5,778.91   | 546.03               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,922.00  | 8.80     | 59.60   | 5,871.78   | 560.58               | LEAM DRILLING SYSTEMS, INC. |
| 5/29/2016 | 5,985.00  | 8.90     | 60.50   | 5,934.03   | 570.27               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,121.00  | 8.80     | 61.10   | 6,068.41   | 591.19               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,215.00  | 10.30    | 61.40   | 6,161.10   | 606.79               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,309.00  | 10.70    | 63.40   | 6,253.53   | 623.91               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,402.00  | 10.60    | 63.90   | 6,344.93   | 641.10               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,496.00  | 10.00    | 64.60   | 6,437.41   | 657.91               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,590.00  | 11.30    | 59.50   | 6,529.79   | 675.26               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,683.00  | 10.60    | 59.50   | 6,621.10   | 692.93               | LEAM DRILLING SYSTEMS, INC. |



### Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

| Date      | MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | Unwrap Displace (ft) | Survey Company              |
|-----------|-----------|----------|---------|------------|----------------------|-----------------------------|
| 5/30/2016 | 6,777.00  | 9.90     | 60.50   | 6,713.60   | 709.66               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,871.00  | 11.30    | 55.40   | 6,805.99   | 726.93               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 6,964.00  | 11.00    | 56.30   | 6,897.24   | 744.91               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,058.00  | 10.10    | 56.20   | 6,989.65   | 762.12               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,152.00  | 8.90     | 54.90   | 7,082.36   | 777.64               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,245.00  | 8.50     | 57.90   | 7,174.29   | 791.70               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,339.00  | 9.80     | 60.70   | 7,267.09   | 806.64               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,433.00  | 8.40     | 61.80   | 7,359.91   | 821.51               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,527.00  | 9.10     | 54.00   | 7,452.81   | 835.78               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,621.00  | 9.90     | 54.00   | 7,545.52   | 851.29               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,714.00  | 9.80     | 55.40   | 7,637.15   | 867.20               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,808.00  | 11.30    | 58.10   | 7,729.56   | 884.40               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,902.00  | 9.30     | 59.10   | 7,822.04   | 901.21               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 7,995.00  | 8.30     | 58.80   | 7,913.95   | 915.44               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 8,089.00  | 9.10     | 60.70   | 8,006.87   | 929.65               | LEAM DRILLING SYSTEMS, INC. |
| 5/30/2016 | 8,183.00  | 11.30    | 60.20   | 8,099.37   | 946.30               | LEAM DRILLING SYSTEMS, INC. |
| 5/31/2016 | 8,276.00  | 9.30     | 60.00   | 8,190.87   | 962.93               | LEAM DRILLING SYSTEMS, INC. |
| 5/31/2016 | 8,370.00  | 9.10     | 56.20   | 8,283.66   | 977.95               | LEAM DRILLING SYSTEMS, INC. |
| 5/31/2016 | 8,464.00  | 9.30     | 57.60   | 8,376.45   | 992.97               | LEAM DRILLING SYSTEMS, INC. |
| 5/31/2016 | 8,557.00  | 10.20    | 60.20   | 8,468.11   | 1,008.72             | LEAM DRILLING SYSTEMS, INC. |
| 5/31/2016 | 8,651.00  | 9.60     | 62.70   | 8,560.71   | 1,024.88             | LEAM DRILLING SYSTEMS, INC. |
| 5/31/2016 | 8,745.00  | 9.20     | 58.80   | 8,653.45   | 1,040.22             | LEAM DRILLING SYSTEMS, INC. |
| 5/31/2016 | 8,839.00  | 7.20     | 59.10   | 8,746.48   | 1,053.63             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 8,950.00  | 8.00     | 79.45   | 8,856.53   | 1,068.08             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,044.00  | 18.20    | 106.25  | 8,948.03   | 1,088.88             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,137.00  | 22.70    | 117.49  | 9,035.18   | 1,121.22             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,231.00  | 27.30    | 146.04  | 9,120.66   | 1,159.86             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,325.00  | 33.40    | 158.33  | 9,201.82   | 1,207.11             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,418.00  | 41.50    | 157.16  | 9,275.59   | 1,263.61             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,512.00  | 50.60    | 158.06  | 9,340.76   | 1,331.21             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,606.00  | 56.50    | 164.90  | 9,396.63   | 1,406.72             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,700.00  | 68.40    | 167.00  | 9,440.03   | 1,489.90             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,793.00  | 79.30    | 166.75  | 9,465.86   | 1,579.10             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,887.00  | 88.60    | 164.61  | 9,475.75   | 1,672.46             | LEAM DRILLING SYSTEMS, INC. |
| 6/1/2016  | 9,981.00  | 89.10    | 166.02  | 9,477.64   | 1,766.44             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,091.00 | 91.10    | 165.73  | 9,477.45   | 1,876.44             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,185.00 | 91.40    | 166.09  | 9,475.40   | 1,970.41             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,279.00 | 91.30    | 167.25  | 9,473.18   | 2,064.39             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,373.00 | 91.30    | 167.45  | 9,471.05   | 2,158.36             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,466.00 | 91.30    | 165.86  | 9,468.94   | 2,251.34             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,560.00 | 91.30    | 165.50  | 9,466.81   | 2,345.31             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,654.00 | 91.40    | 165.16  | 9,464.59   | 2,439.28             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,747.00 | 91.10    | 165.38  | 9,462.57   | 2,532.26             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,841.00 | 90.30    | 166.12  | 9,461.42   | 2,626.25             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 10,934.00 | 90.30    | 167.18  | 9,460.93   | 2,719.25             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 11,028.00 | 90.10    | 166.74  | 9,460.60   | 2,813.25             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 11,122.00 | 90.20    | 165.30  | 9,460.36   | 2,907.25             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 11,216.00 | 89.50    | 165.04  | 9,460.60   | 3,001.25             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 11,310.00 | 90.50    | 165.56  | 9,460.60   | 3,095.25             | LEAM DRILLING SYSTEMS, INC. |
| 6/2/2016  | 11,403.00 | 90.60    | 165.06  | 9,459.71   | 3,188.24             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 11,497.00 | 91.40    | 164.20  | 9,458.07   | 3,282.22             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 11,591.00 | 91.30    | 163.64  | 9,455.85   | 3,376.20             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 11,684.00 | 91.30    | 165.02  | 9,453.74   | 3,469.17             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 11,778.00 | 91.40    | 164.48  | 9,451.53   | 3,563.15             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 11,872.00 | 91.30    | 165.40  | 9,449.31   | 3,657.12             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 11,966.00 | 91.30    | 164.92  | 9,447.18   | 3,751.09             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 12,060.00 | 90.90    | 164.75  | 9,445.38   | 3,845.08             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 12,153.00 | 90.40    | 165.13  | 9,444.32   | 3,938.07             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016  | 12,247.00 | 90.20    | 165.07  | 9,443.83   | 4,032.07             | LEAM DRILLING SYSTEMS, INC. |



### Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

| Date     | MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | Unwrap Displace (ft) | Survey Company              |
|----------|-----------|----------|---------|------------|----------------------|-----------------------------|
| 6/3/2016 | 12,341.00 | 90.20    | 165.39  | 9,443.50   | 4,126.07             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 12,434.00 | 90.30    | 165.62  | 9,443.10   | 4,219.07             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 12,528.00 | 90.20    | 165.60  | 9,442.69   | 4,313.07             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 12,622.00 | 90.90    | 164.90  | 9,441.78   | 4,407.06             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 12,716.00 | 91.30    | 164.65  | 9,439.98   | 4,501.04             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 12,809.00 | 91.60    | 167.39  | 9,437.63   | 4,594.00             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 12,903.00 | 90.20    | 168.53  | 9,436.15   | 4,687.99             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 12,997.00 | 91.20    | 169.16  | 9,435.00   | 4,781.98             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,090.00 | 91.10    | 167.55  | 9,433.13   | 4,874.96             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,184.00 | 90.90    | 165.96  | 9,431.49   | 4,968.94             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,278.00 | 91.60    | 166.57  | 9,429.44   | 5,062.92             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,371.00 | 91.20    | 166.67  | 9,427.17   | 5,155.89             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,465.00 | 91.50    | 164.24  | 9,424.96   | 5,249.86             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,559.00 | 91.30    | 165.85  | 9,422.66   | 5,343.83             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,653.00 | 90.70    | 167.86  | 9,421.02   | 5,437.81             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,747.00 | 92.10    | 169.06  | 9,418.72   | 5,531.77             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,840.00 | 90.20    | 165.29  | 9,416.85   | 5,624.73             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 13,934.00 | 91.60    | 164.40  | 9,415.38   | 5,718.72             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 14,028.00 | 91.80    | 165.20  | 9,412.59   | 5,812.68             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 14,122.00 | 91.40    | 164.99  | 9,409.96   | 5,906.64             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 14,215.00 | 91.40    | 162.70  | 9,407.69   | 5,999.61             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 14,309.00 | 92.20    | 166.48  | 9,404.74   | 6,093.54             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 14,403.00 | 90.80    | 168.91  | 9,402.28   | 6,187.50             | LEAM DRILLING SYSTEMS, INC. |
| 6/3/2016 | 14,496.00 | 90.10    | 169.63  | 9,401.55   | 6,280.50             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 14,590.00 | 89.40    | 167.72  | 9,401.96   | 6,374.49             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 14,684.00 | 89.90    | 166.31  | 9,402.53   | 6,468.49             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 14,778.00 | 89.50    | 165.64  | 9,403.02   | 6,562.48             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 14,871.00 | 89.80    | 166.63  | 9,403.59   | 6,655.48             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 14,965.00 | 90.90    | 167.59  | 9,403.02   | 6,749.48             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,059.00 | 90.20    | 165.95  | 9,402.12   | 6,843.47             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,152.00 | 89.30    | 164.33  | 9,402.52   | 6,936.46             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,246.00 | 89.50    | 163.15  | 9,403.51   | 7,030.46             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,340.00 | 89.50    | 163.73  | 9,404.33   | 7,124.45             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,433.00 | 89.30    | 163.73  | 9,405.30   | 7,217.45             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,527.00 | 90.20    | 166.51  | 9,405.71   | 7,311.44             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,621.00 | 90.50    | 167.80  | 9,405.14   | 7,405.43             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,714.00 | 90.60    | 169.39  | 9,404.24   | 7,498.43             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,808.00 | 91.50    | 171.15  | 9,402.52   | 7,592.40             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,902.00 | 91.00    | 168.72  | 9,400.47   | 7,686.37             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 15,995.00 | 90.10    | 166.55  | 9,399.58   | 7,779.36             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 16,089.00 | 89.50    | 163.67  | 9,399.90   | 7,873.35             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 16,183.00 | 91.20    | 160.93  | 9,399.33   | 7,967.34             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 16,277.00 | 91.50    | 162.13  | 9,397.12   | 8,061.31             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 16,370.00 | 91.30    | 163.96  | 9,394.84   | 8,154.28             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 16,464.00 | 91.40    | 165.75  | 9,392.63   | 8,248.25             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 16,558.00 | 91.10    | 165.17  | 9,390.58   | 8,342.23             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 16,652.00 | 90.40    | 164.16  | 9,389.35   | 8,436.22             | LEAM DRILLING SYSTEMS, INC. |
| 6/4/2016 | 16,745.00 | 90.20    | 161.59  | 9,388.86   | 8,529.21             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 16,839.00 | 90.20    | 162.10  | 9,388.53   | 8,623.21             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 16,933.00 | 90.50    | 165.68  | 9,387.96   | 8,717.19             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,027.00 | 90.10    | 167.04  | 9,387.47   | 8,811.19             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,121.00 | 90.70    | 166.62  | 9,386.81   | 8,905.18             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,215.00 | 90.40    | 167.74  | 9,385.91   | 8,999.18             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,308.00 | 90.30    | 167.22  | 9,385.34   | 9,092.17             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,402.00 | 90.60    | 166.27  | 9,384.60   | 9,186.17             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,496.00 | 89.80    | 165.67  | 9,384.27   | 9,280.17             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,589.00 | 89.10    | 165.29  | 9,385.17   | 9,373.16             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,683.00 | 89.40    | 166.96  | 9,386.40   | 9,467.15             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,777.00 | 89.80    | 164.70  | 9,387.05   | 9,561.14             | LEAM DRILLING SYSTEMS, INC. |

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 38H

| Date     | MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | Unwrap Displace (ft) | Survey Company              |
|----------|-----------|----------|---------|------------|----------------------|-----------------------------|
| 6/5/2016 | 17,871.00 | 89.90    | 160.91  | 9,387.30   | 9,655.13             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 17,965.00 | 90.20    | 161.12  | 9,387.22   | 9,749.13             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,058.00 | 91.00    | 164.66  | 9,386.24   | 9,842.11             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,152.00 | 90.30    | 163.24  | 9,385.18   | 9,936.10             | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,245.00 | 90.90    | 166.73  | 9,384.20   | 10,029.08            | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,339.00 | 90.80    | 169.44  | 9,382.81   | 10,123.06            | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,432.00 | 89.00    | 169.41  | 9,382.97   | 10,216.05            | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,526.00 | 89.50    | 166.74  | 9,384.20   | 10,310.04            | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,620.00 | 89.40    | 165.55  | 9,385.10   | 10,404.03            | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,713.00 | 90.20    | 166.90  | 9,385.43   | 10,497.03            | LEAM DRILLING SYSTEMS, INC. |
| 6/5/2016 | 18,807.00 | 90.20    | 168.25  | 9,385.10   | 10,591.02            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 18,901.00 | 90.40    | 170.13  | 9,384.61   | 10,685.02            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 18,994.00 | 89.60    | 168.73  | 9,384.61   | 10,778.02            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,088.00 | 91.30    | 167.67  | 9,383.87   | 10,872.01            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,182.00 | 90.50    | 168.45  | 9,382.39   | 10,966.00            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,276.00 | 90.10    | 167.90  | 9,381.90   | 11,059.99            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,369.00 | 90.30    | 166.32  | 9,381.58   | 11,152.99            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,463.00 | 90.20    | 166.48  | 9,381.16   | 11,246.99            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,557.00 | 90.30    | 166.10  | 9,380.75   | 11,340.99            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,651.00 | 90.20    | 166.23  | 9,380.34   | 11,434.99            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,744.00 | 89.80    | 165.01  | 9,380.34   | 11,527.98            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,767.00 | 89.90    | 164.81  | 9,380.40   | 11,550.98            | LEAM DRILLING SYSTEMS, INC. |
| 6/6/2016 | 19,795.00 | 89.90    | 164.81  | 9,380.45   | 11,578.98            | LEAM DRILLING SYSTEMS, INC. |