

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

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|--|-----------------|--|--------------|---|-----------|--|--|--|--|
| API/UWI 42-383-38312-0000 | | Property Sub 927351-014 | | Operator PIONEER NATURAL RESRC USA, INC | | State TEXAS | | County REAGAN | |
| Field Name SPRABERRY (TREND AREA) | | | | Surface Legal Location 405' FNL/ 857' FWL, SEC: 29, BLK: 2, TWP: , SVY: University Lands | | | | | |
| Spud Date 6/22/2013 | | TD Date 7/31/2013 | | Drilling Rig Release Date 8/3/2013 | | Frac Date 9/23/2013 | | On Production Date 11/7/2013 | |
| Ground Elevation (ft) 2,262.50 | | Original KB Elevation (ft) 2,289.00 | | PBDT (All) (ftGRD) | | Total Depth (All) (ftGRD) Original Hole - 18,825.5 | | Total Depth All (TVD) (ftGRD) Original Hole - 8,814.7 | |
| Report #: 1 Daily Operation: 6/22/2013 15:30 - 6/23/2013 06:00 | | | | | | | | | |
| Job Category ORIG DRILLING | | | | Primary Job Type ODR | | | | AFE Number 027152 | |
| Days From Spud (days) 0 | | Days on Location (days) 1 | | End Depth (ftGRD) 553.5 | | End Depth (TVD) (ftGRD) 553.5 | | Dens Last Mud (lb/gal) 8.40 | |
| Rig H & P, 497 | | | | | | | | | |
| Operations Summary Skid Rig and R/U. P/U Surface BHA. Drill 13-3/8" Surface Hole F/150' MD T/584' MD, Run W/L Gyro, TOOH, Lay Down BHA, Rig up Casing Crew | | | | | | | | | |
| Remarks Rig (H&P 497) & Well Progress: 8.35 days on location, 0.6 days since rig accepted on 6/22/2013 @ 15:30, 0.33 days since spud Rig move days: 5.00 Rig NPT: 0 hours for previous 24 hours. 8.5 hrs NPT for month of June Completion percentage: Surface: 100% Intermediate: 0% Curve: 0% Lateral: 0% Well Plan: PTB @ 584' MD - .7 deg incl No corrosion ring installed | | | | | | | | | |
| Time Log Summary | | | | | | | | | |
| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com | | | |
| 6/22/2013 15:30 | 6/22/2013 17:00 | 1.5 | MOBILIZATION | MIRU | MIRU | Skid rig from the University 2-20 #13H to the Univesity 2-20 #14H | | | |
| 6/22/2013 17:00 | 6/22/2013 20:30 | 3.5 | MOBILIZATION | MIRU | MIRU | R/U over hole. Move skid rails, install blank flanges on flow line, R/U hydraulic hoses and cellar pumps. Level hydraulic catwalk to allow trough to come up through V-Door gate | | | |
| 6/22/2013 20:30 | 6/22/2013 21:30 | 1 | SURF-TIH | TRIP IN HOLE | TIH | Perform pre-spud checks, P/U BHA, M/U stabilizer, and TIH. Notified TRRC - spoke with Darla @ 19:30 | | | |
| 6/22/2013 21:30 | 6/22/2013 22:00 | 0.5 | SURF-CIRC | CIRCULATE | CIRC | Break circulation, check cellar pumps function, and wash F/100' MD T/150' MD. Tag bottom @ 150' MD | | | |
| 6/22/2013 22:00 | 6/22/2013 23:30 | 1.5 | SURF-DRILL | DRILL SURFACE | DRL | Rotate Drill 17-1/2" Hole 66' @ 44 ft/hr: 15k WOB, 60 RPM, 159 spm, 610 gpm, 350-400 psi SPP, 3.75k TQ Notes: Circulating through reserve pits while taking returns to cellar. Dropping soap stick every other connection | | | |
| 6/22/2013 23:30 | 6/23/2013 00:00 | 0.5 | SURF-DRILL | DRILL SURFACE | DRL | Rotate Drill 17-1/2" Hole 92' @ 184 ft/hr: 15k WOB, 120 RPM, 206 spm, 800 gpm, 750 psi SPP, 5k TQ Notes: Circulating through reserve pits while taking returns to cellar. Dropping soap stick every other connection | | | |
| 6/23/2013 00:00 | 6/23/2013 00:30 | 0.5 | SURF-LOG | LOG | LOG | W/L survey @ 290' MD. Inclination = 1.06 deg | | | |
| 6/23/2013 00:30 | 6/23/2013 01:00 | 0.5 | SURF-DRILL | DRILL SURFACE | DRL | Rotate Drill 17-1/2" Hole 93' @ 184 ft/hr: 10k WOB, 120 RPM, 206 spm, 800 gpm, 750 psi SPP, 5k TQ Notes: Circulating through reserve pits while taking returns to cellar. Dropping soap stick every other connection | | | |
| 6/23/2013 01:00 | 6/23/2013 01:30 | 0.5 | SURF-LOG | LOG | LOG | W/L survey @ 383' MD. Inclination = 1.06 deg | | | |
| 6/23/2013 01:30 | 6/23/2013 02:00 | 0.5 | SURF-DRILL | DRILL SURFACE | DRL | Rotate Drill 17-1/2" Hole 92' @ 184 ft/hr: 10k WOB, 120 RPM, 206 spm, 800 gpm, 750 psi SPP, 5.5k TQ Notes: Circulating through reserve pits while taking returns to cellar. Dropping soap stick every other connection | | | |
| 6/23/2013 02:00 | 6/23/2013 02:30 | 0.5 | SURF-LOG | LOG | LOG | W/L survey @ 475' MD. Inclination = 0.98 deg | | | |

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Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|------------|--------------------|-----------|---|
| 6/23/2013 02:30 | 6/23/2013 03:30 | 1 | SURF-DRILL | DRILL SURFACE | DRL | Rotate Drill 17-1/2" Hole 87' @ 130 ft/hr: 10k WOB, 120 RPM, 206 spm, 800 gpm, 800 psi SPP, 5.5k TQ Notes: Circulating through reserve pits while taking returns to cellar. Dropping soap stick every other connection |
| 6/23/2013 03:30 | 6/23/2013 04:00 | 0.5 | SURF-CIRC | CIRCULATE | CIRC | Work pipe and circulate 40 bbl sweep around. Hold pre-job safety meeting with VES Gyro |
| 6/23/2013 04:00 | 6/23/2013 04:30 | 0.5 | SURF-LOG | LOG | LOG | R/U and Run W/L Gyro T/562' MD Survey Depth. Take Gyro Surveys on the way out. R/D W/L Gyro tool Note: Drop Gyro was not available for the time frame needed |
| 6/23/2013 04:30 | 6/23/2013 05:30 | 1 | SURF-TRIP | TOOH | TRIP | TOOH F/580' MD T/BHA. No excess hole drag recorded. L/D stabilizer, cross over subs, shock sub, bit sub, and bit |
| 6/23/2013 05:30 | 6/23/2013 06:00 | 0.5 | SURF-CASE | RUN SURFACE CASING | CASE | Hold safety meeting with Express, H&P employees and Pioneer Rep. Rig up to run 13 3/8 casing |

Report #: 2 Daily Operation: 6/23/2013 06:00 - 6/24/2013 06:00

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|----------------------------------|--------------------------------|----------------------------|
| Job Category ORIG DRILLING | Primary Job Type ODR | AFE Number 027152 |
| Days From Spud (days) 1 | Days on Location (days) 2 | End Depth (ftGRD) 553.5 |
| End Depth (TVD) (ftGRD) 553.5 | Dens Last Mud (lb/gal) 8.40 | Rig H & P, 497 |

Operations Summary

Run 14 joints of 13 3/8 Surface Casing, Cement Casing, Weld on Casing Head, Nipple Up, Test B.O.P, Finish Nipping Up Flowline.

Remarks

Rig (H&P 497) & Well Progress:

9.35 days on location, 1.6 days since rig accepted on 6/22/2013 @ 15:30, 1.33 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 8.5 hrs NPT for month of June

Completion percentage: Surface: 100% | Intermediate: 0% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 584' MD - .7 deg incl

No corrosion ring installed

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service...

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|-----------|-----------------------|-----------|--|
| 6/23/2013 06:00 | 6/23/2013 07:00 | 1 | SURF-CASE | RUN SURFACE CASING | CASE | Rig up casg crew and equipment, change out bails and elevators. Calibrate blocks for running 13 3/8 casg |
| 6/23/2013 07:00 | 6/23/2013 07:30 | 0.5 | PLAN | PERS | SFTY | Hold safety meeting with H&P hands, Express casing crew and company man present for meeting. |
| 6/23/2013 07:30 | 6/23/2013 09:00 | 1.5 | SURF-CASE | RUN SURFACE CASING | CASE | Run 14 joints of 13 3/8 48# J-55 stc casing, a total of 584' F/ surface T/ 580'. Ran 5 centralizers @ 1 10' up on shoe joint, 1 on second joint and every other joint to 480'. Clean casing run with no problems. Casing tagged up 4' above rig floor. Proper displacement observed. Full returns through the whole job. |
| 6/23/2013 09:00 | 6/23/2013 09:30 | 0.5 | SURF-CIRC | CIRCULATE | CIRC | Circulate casing 1.5 times casing capacity @ 50 spm, 225 psi SPP 192 gpm and rig down casing crew |
| 6/23/2013 09:30 | 6/23/2013 10:00 | 0.5 | PLAN | PERS | SFTY | Hold safety meeting with Schlumberger and H&P crew. Company man present for safety meeting. |
| 6/23/2013 10:00 | 6/23/2013 11:30 | 1.5 | SURF-CMT | CEMENT SURFACE CASING | CMT | Rig up cementers and cement 13 3/8 casg. Tail: 548 sks of class "C" cement (94 lbs per sack of blend) @ 13.60 lb/gal, Yield 1.71 ft3 /sk, mix fluid 8.940 gal/sk total volume 166.7 bbl's. Additives D020 Extender 4.0% BWOB and S001 calcium chloride 2.0% BWOB. Total of 45 bbl's back to surface and full returns through whole job. Bumped plug @ 11:30. Plug bumped to 1,800 psi hold for 10 minutes and release. Floats holding. |
| 6/23/2013 11:30 | 6/23/2013 12:00 | 0.5 | SURF-CMT | CEMENT SURFACE CASING | CMT | Rig down Schlumberger and slack off casg 6" and watch for any down movement |

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|-----------------|-----------------|----------|-------------------|-----------------|-----------|--|
| 6/23/2013 12:00 | 6/23/2013 15:30 | 3.5 | SURF-NU/TEST-SURF | NIPPLE UP/TEST | NU/TEST | Casg held for 30 minutes. Cut off casing and weld on Seaboard casg head SMB-22 13 3/8 SOW X 13 5/8 5M w/ 25" OD base plate. Test casg head to 375 psi for 10 minutes. Test good. |
| 6/23/2013 15:30 | 6/23/2013 22:00 | 6.5 | SURF-NU/TEST-SURF | NIPPLE UP/TEST | NU/TEST | Make up two spools to make 60" overall total length. (Set casg head 18" below ground level). Install B.O.P, choke line, kill line, HCR valve, closing lines, and flow nipple. Center stack and stabilize. |
| 6/23/2013 22:00 | 6/24/2013 02:30 | 4.5 | SURF-NU/TEST-SURF | NIPPLE UP/TEST | NU/TEST | Held Safety Meeting and rig up Greens BOP Testers. Test 1- 3 Inside Choke Manifold Valves and Blinds- 2,500 psi High, 250 psi Low Test 2- Middle Choke Manifold Valves, Annular, and Kill Valve- 2,500 psi High, 250 psi Low Test 3- Outside Choke Manifold Valves, Upper Rams, and Dart Valve- 2,500 psi High, 250 psi Low Test 4- HCR and Upper Rams- 2,500 psi High, 250 psi Low Test 5- Manuel HCR and Upper Rams- 2,500 psi High, 250 psi Low Test 6- Bottom Rams- 2,500 psi High, 250 psi Low Test 7- Manuel IBOP- 2,500 psi High, 250 psi Low Test 8- Hydraulic IBOP- 2,500 psi High, 250 psi Low Test 9- Pumps- 2,500 psi High, 250 psi Low Test 10- Stand Pipe- 2,500 psi High, 250 psi Low |
| 6/24/2013 02:30 | 6/24/2013 03:00 | 0.5 | SURF-NU/TEST-SURF | NIPPLE UP/TEST | NU/TEST | Test 11- 13 3/8 "Surface Casing to 1,000 psi for 30 minutes. No leak off. |
| 6/24/2013 03:00 | 6/24/2013 06:00 | 3 | SURF-NU/TEST-SURF | NIPPLE UP/TEST | NU/TEST | Finish nipping up flow line and tighten, tighten flow nipple, hook up bleed off line, fill up line, and choke manifold lines. Note- lesson learned while picking up flow line need to utilize a two snatch block system with the hoist line. We are going to look at other options during rigging up on first well, hanging the flow line off during rig up to be more efficient. |

Report #: 3 Daily Operation: 6/24/2013 06:00 - 6/25/2013 06:00

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|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|--|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 2 | 3 | 2,444.5 | 2,444.4 | 8.60 | H & P, 497 | | |

Operations Summary

Pick up Directional Tools, Test E.M Tool, Rack Directional Tools Back. Modify Flow Nipple. Trip in Hole with BHA, Drill Cement and Drill New Hole.

Remarks

Rig (H&P 497) & Well Progress:

10.35 days on location, 2.6 days since rig accepted on 6/22/2013 @ 15:30, 2.33 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 8.5 hrs NPT for month of June

Completion percentage: Surface: 100% | Intermediate: 33% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 2376 ' MD - 0.80° Incl, 58.46° Az.

1 corrosion ring installed 6/24/2013 @ 21:30, (8.5 cum Hrs) 0 drums inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service..

Drilling & Completion Summary - Ascending

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Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|-------------------|-----------------------------------|-----------|--|
| 6/24/2013 06:00 | 6/24/2013 07:00 | 1 | SURF-NU/TEST-SURF | NIPPLE UP/TEST | NU/TEST | Finish hanging off flow line. Flow line not lining up. Picked up flow nipple and turn 1 hole. Flow line will still not line up. Talked with Jess Arnold on the problems with the flow line handling. Found the well head was NOT 2 holed properly. Company man (Wes Miller) checked by measuring and found the well head out by approximately 1.25". Contacted Chris Burns welding and let them know what we had found. Contacted Jess Arnold again and let him know as well. The quickest fix will be to call out welder and slot the holes on the bell nipple, Jess agreed and welder was called out. ETA 2 hours. |
| 6/24/2013 07:00 | 6/24/2013 09:00 | 2 | INT-TRIP IN HOLE | TRIP IN HOLE | TIH | Install wear bushing. Company man observed pins being backed out and run back in. Remove flow nipple and prep for welder. Blinds closed during this job. |
| 6/24/2013 09:00 | 6/24/2013 11:30 | 2.5 | UNPLANNED | Other - Anything not listed above | U_OTR | Modify flow nipple by slotting flange |
| 6/24/2013 11:30 | 6/24/2013 13:30 | 2 | SURF-NU/TEST-SURF | NIPPLE UP/TEST | NU/TEST | Hook up flowline and fill up line from trip tank to flow nipple. |
| 6/24/2013 13:30 | 6/24/2013 16:00 | 2.5 | PLAN | EQUIP | BHA | Pick up directional tools, scribe motor, install E.M tool and pick up drill collars. |
| 6/24/2013 16:00 | 6/24/2013 18:00 | 2 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drilling Cement and Float equipment. Float @ 533' MD, Shoe @ 578' MD. 15K bit/wt, 15 rpm, 400 gpm |
| 6/24/2013 18:00 | 6/24/2013 19:30 | 1.5 | INT-TRIP IN HOLE | TRIP IN HOLE | TIH | Pick Up 4- 6.5 inch collars, 2 HWD, and Drilling Jars. |
| 6/24/2013 19:30 | 6/24/2013 20:30 | 1 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 216 ft, F/648-T/ 864. wob 30k, diff 650 psi, spp 1700, tq 12k, 144 spm, 554 gpm. Made connection at 679'. Took svy at 614, 0.49° Incl, 178.37° Az. Continue rotate drill. Made connection at 864'. Took svy at 799, 0.80° Incl, 207.59° Az. Put in 18 Ft Slide. |
| 6/24/2013 20:30 | 6/24/2013 20:45 | 0.25 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/864 - T/882, 18 ft, rop 72. wob 8k, diff 150-250 psi, spp 1250 psi, tq 1.0 k, 144 spm, 553 gpm. |
| 6/24/2013 20:45 | 6/24/2013 22:00 | 1.25 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 262 ft, F/882 - T/ 1144. wob 30k, diff 650 psi, spp 1700, tq 12k, 144 spm, 554 gpm. Made connection at 1049'. Took svy at 984, 1.1° Incl, 64.2° Az. Continue Rotate Drilling. Made connection at 1144'. Took svy at 1079, 1.28° Incl, 42.69° Az. Put in 12 Ft Slide. Note-Installed Corrosion Ring in top of first joint of Drill Pipe. |
| 6/24/2013 22:00 | 6/24/2013 22:15 | 0.25 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/1144 - T/1156, 12 ft, rop 48. wob 15k, diff 500 psi, spp 1750 psi, tq 1.0 k, 144 spm, 555 gpm. |
| 6/24/2013 22:15 | 6/25/2013 01:30 | 3.25 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 651 ft, F/1,156 - T/ 1,807. wob 35 k, diff 750 psi, spp 2750, tq 12.5 k, 196 spm, 750 gpm, 200 ft/hr rop. Made connection at 1,239'. Took svy at 1,174, 0.49° Incl, 70.98° Az. Continue Rotate Drilling. Made connection at 1,428'. Took svy at 1,363, 0.49° Incl, 98.79° Az. Continue Rotate Drilling Made connection at 1,618'. Took svy at 1,553, 0.31° Incl, 140.08° Az. Continue Rotate Drilling |

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Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------------|-----------------------|-----------|---|
| 6/25/2013 01:30 | 6/25/2013 03:00 | 1.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 284 ft, F/1,807' - T/ 2091'. wob 30 k, diff 750 psi, spp 2750, tq 12.5 k, 196 spm, 750 gpm, 189 ft/hr rop. Made connection at 1807'. Took svy at 1,742', 0.40° Incl, 168.15° Az. Continue Rotate Drilling. Made connection at 2,091'. Took svy at 2,026', 0.40° Incl, 150.26° Az. Put in a 10' ft slide. |
| 6/25/2013 03:00 | 6/25/2013 03:15 | 0.25 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/2,091' - T/2,101', 10' ft, rop 40. wob 15k, diff 200-300 psi, spp 2200 psi, tq 1.0 k, 196 spm, 750 gpm. |
| 6/25/2013 03:15 | 6/25/2013 06:00 | 2.75 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 370 ft, F/2,101' - T/ 2,471'. wob 30 k, diff 750 psi, spp 2750, tq 12.5 k, 196 spm, 750 gpm, 135 ft/hr rop. Made connection at 1997'. Took svy at 1,932', 0.49° Incl, 163.65° Az. Continue Rotate Drilling. Made connection at 2,186'. Took svy at 2,121', 0.471° Incl, 51.85° Az. Continue Rotate Drilling Made connection at 2,376'. Took svy at 2,311', 0.80° Incl, 58.46° Az. Continue Rotate Drilling |

Report #: 4 Daily Operation: 6/25/2013 06:00 - 6/26/2013 06:00

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|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 3 | 4 | 5,193.5 | 5,191.4 | 8.70 | H & P, 497 | |

Operations Summary

Drill Intermediate Section F/ 2471 T/ 5220

Remarks

Rig (H&P 497) & Well Progress:

11.35 days on location, 3.6 days since rig accepted on 6/22/2013 @ 15:30, 3.33 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 8.5 hrs NPT for month of June

Completion percentage: Surface: 100% | Intermediate: 61% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 5031' MD - 1.02° Incl, 210.58° Az. 6' behind and 19' right

1 corrosion ring installed 6/24/2013 @ 21:30, (32.5 cum Hrs) 0 drums inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service.

Motor 1.83 bend, 6/7, BTB 7.66

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------------|--------------------------|-----------|---|
| 6/25/2013 06:00 | 6/25/2013 06:30 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/2,471' - T/2,514', 42 ft, rop 86'. wob 15k, diff 300-350 psi, spp 2,426 psi, tq 1.0 k, 196 spm, 750 gpm. |
| 6/25/2013 06:30 | 6/25/2013 07:00 | 0.5 | INT-DRILL-TAN | DRILL INT TANGENT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 28 ft, F/2,514' - T/ 2,542'. wob 30k, diff 750 psi, spp 2,824, tq 12k, 196 spm, 750 gpm. |
| 6/25/2013 07:00 | 6/25/2013 07:30 | 0.5 | INT-DRILL-TAN | DRILL INT TANGENT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/2,562' - T/2,577", 15' ft, rop 40. wob 15k, diff 200-300 psi, spp 2200 psi, tq 1.0 k, 196 spm, 750 gpm. |

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| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------------|--------------------------|-----------|---|
| 6/25/2013 07:30 | 6/25/2013 10:00 | 2.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | <p>Rotate Drill Intermediate Section 558 ft, F/2,577' - T/ 3,135'. wob 30 k, diff 750 psi, spp 2750, tq 15.5 k, 196 spm, 750 gpm, 223.5 ft/hr rop.</p> <p>Made connection at 2,577'. Took svy at 2,500', 1.19° Incl, 55.29° Az. Continue Rotate Drilling.</p> <p>Made connection at 2,754'. Took svy at 2,690', 3.49° Incl, 36.17° Az. Continue Rotate Drilling</p> <p>Made connection at 2,944'. Took svy at 2,880', 2.92° Incl, 46.48° Az. Continue Rotate Drilling</p> <p>Made connection at 3,135'. Took svy at 3,070', 2.70° Incl, 52.25° Az. Continue Rotate Drilling</p> |
| 6/25/2013 10:00 | 6/25/2013 11:30 | 1.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | <p>Rotate Drill Intermediate Section 180 ft, F/3,135' - T/ 3,315'. wob 30 k, diff 750 psi, spp 2961, tq 16.5 k, 196 spm, 750 gpm, 120.5 ft/hr rop.</p> <p>Made connection at 3,315'. Took svy at 3,259', 2.70° Incl, 60.76° Az. Continue Rotate Drilling.</p> |
| 6/25/2013 11:30 | 6/25/2013 12:30 | 1 | INT-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Service rig- top drive, generators and VFD house. |
| 6/25/2013 12:30 | 6/25/2013 13:00 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 41 ft, F/3,315' - T/ 3,356'. wob 25 k, diff 550 psi, spp 2,861, tq 12.5 k, 196 spm, 750 gpm, 112.0 ft/hr rop. |
| 6/25/2013 13:00 | 6/25/2013 13:30 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/2,562' - T/2,577", 16' ft, rop 32. wob 15k, diff 200-300 psi, spp 2200 psi, tq 1.0 k, 196 spm, 750 gpm TF 320 M |
| 6/25/2013 13:30 | 6/25/2013 16:30 | 3 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | <p>Rotate Drill Intermediate Section 472 ft, F/3,372' - T/ 3,844'. wob 25 k, diff 550 psi, spp 2,755, tq 11.5 k, 196 spm, 750 gpm, 157.33' ft/hr rop.</p> <p>Made connection at 3,513'. Took svy at 3,449', 2..70° Incl, 27.66° Az. Continue Rotate Drilling</p> |
| 6/25/2013 16:30 | 6/25/2013 18:00 | 1.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 109' ft, F/3,844' - T/ 4,008'. wob 30 k, diff 550 psi, spp 2,755, tq 11.5 k, 196 spm, 750 gpm, 82' ft/hr rop. |
| 6/25/2013 18:00 | 6/25/2013 19:00 | 1 | INT-DRILL-TAN | DRILL INT TANGENT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/3,988' - T/4,008", 20' ft, rop 20. wob 15k, diff 300 psi, spp 2750 psi, tq 1.0 k, 202 spm, 770 gpm TF 210 M |
| 6/25/2013 19:00 | 6/25/2013 20:00 | 1 | INT-DRILL-TAN | DRILL INT TANGENT-ROTATE | DRL-ROT | <p>Rotate Drill Intermediate Section 94' ft, F/4,008' - T/ 4,102'. wob 40 k, diff 700 psi, spp 3,100, tq 11.5 k, 202 spm, 770 gpm, 94' ft/hr rop.</p> <p>Made connection at 4,083'. Took svy at 4,018', 1.81° Incl, 71.38° Az. Plan to put a 20 ft Slide In.</p> <p>Began Displacing Hole with Water Based Mud. Est. Strokes to Surface 6,014.</p> |
| 6/25/2013 20:00 | 6/25/2013 21:00 | 1 | INT-DRILL-TAN | DRILL INT TANGENT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/4,102' - T/4,122", 20' ft, rop 20. wob 15k, diff 350 psi, spp 1,600 psi, tq 1.0 k, 130 spm, 500 gpm TF 255 M |
| 6/25/2013 21:00 | 6/25/2013 22:00 | 1 | INT-DRILL-TAN | DRILL INT TANGENT-ROTATE | DRL-ROT | <p>Rotate Drill Intermediate Section 150' ft, F/4,122' - T/ 4,272'. wob 45 k, diff 650 psi, spp 2,700, tq 15 k, 202 spm, 770 gpm, 150' ft/hr rop.</p> <p>Made connection at 4,272' . Took svy at 4,207', 1.50° Incl, 146.13° Az. Plan to put a 20 ft Slide In.</p> <p>Note- Water Based Mud 8.7 ppg mw, 32 vis. back to Surface @ 6,050 Strokes.</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------------|-----------------------|-----------|---|
| 6/25/2013 22:00 | 6/25/2013 22:30 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/4,272' - T/4,297", 25' ft, rop 50. wob 15k, diff 325 psi, spp 1,625 psi, tq 1.0 k, 204 spm, 780 gpm TF 300 M |
| 6/25/2013 22:30 | 6/26/2013 01:30 | 3 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 449' ft, F/4,297' - T/ 4,746'. wob 35 k, diff 700 psi, spp 2,800, tq 15 k, 202 spm, 770 gpm, 150' ft/hr rop. Made connection at 4,652' .Took svy at 4,587', 1.81° Incl, 223.67° Az. Continue Rotary Drilling |
| 6/26/2013 01:30 | 6/26/2013 04:00 | 2.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 285' ft, F/4,746' - T/ 5,031'. wob 36 k, diff 750 psi, spp 2,850, tq 14 k, 202 spm, 770 gpm, 114' ft/hr rop. Made connection at 4,841' .Took svy at 4,776', 1.19° Incl, 217.68° Az. Continue Rotary Drilling |
| 6/26/2013 04:00 | 6/26/2013 06:00 | 2 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 189' ft, F/5,031' - T/ 5,220'. wob 34 k, diff 650 psi, spp 2,750, tq 14 k, 202 spm, 770 gpm, 94.5' ft/hr rop. Made connection at 5031' .Took svy at 4,966', 1.02° Incl, 210.59° Az. Continue Rotary Drilling |

Report #: 5 Daily Operation: 6/26/2013 06:00 - 6/27/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 4 | 5 | 5,773.5 | 5,771.3 | 8.90 | H & P, 497 | |

Operations Summary

Drill Intermediate Section F/ 5220- T/5800, Circulate Sweep, Trip out of the Hole, Hold Safety Stand Down, Change out BHA, Trip in the Hole

Remarks

Rig (H&P 497) & Well Progress:

12.35 days on location, 4.6 days since rig accepted on 6/22/2013 @ 15:30, 4.33 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 8.5 hrs NPT for month of June

Completion percentage: Surface: 100% | Intermediate: 77% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 5788' MD - 0.22° Incl, 53.66° Az. 1' Ahead and 19' Right

1 corrosion ring installed 6/24/2013 @ 21:30, (56.5 cum Hrs) 0 drums inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service.

Motor 1.83 bend, 4.0 6/7, BTB 7.15, 0.15 RPG

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------------|--|-----------|---|
| 6/26/2013 06:00 | 6/26/2013 09:30 | 3.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 195' ft, F/5,220' - T/ 5,415'. wob 30 k, diff 550 psi, spp 1,928, tq 16 k, 175 spm, 670 gpm, 55.71' ft/hr rop. Made connection at 5,415' .Took svy at 4,966', 1.02° Incl, 210.59° Az. Continue Rotary Drilling |
| 6/26/2013 09:30 | 6/26/2013 10:30 | 1 | UNPLANNED | Rig Repair (NON-CODE 8,Replacing Pump Expendables) | U_RIG_OTR | Replace swab in #1 pump and clean out duck pond |
| 6/26/2013 10:30 | 6/26/2013 11:00 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 42' ft, F/5,415' - T/ 5,457'. wob 32 k, diff 550 psi, spp 1,930, tq 16 k, 175 spm, 670 gpm, 82.00' ft/hr rop. Made connection at 5,457' .Took svy at 5,344 0.40° Incl, 198.29° Az. Continue Rotary Drilling |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|------------------|-----------------------------------|-----------|--|
| 6/26/2013 11:00 | 6/26/2013 14:00 | 3 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 153' ft, F/5,457 '- T/ 5,610'. wob 32 k, diff 550 psi, spp 1,930, tq 16 k, 175 spm, 670 gpm, 51.00' ft/hr rop. Made connection at 5,610' .Took svy at 5,534 0.40° Incl, 188.46° Az. Continue Rotary Drilling |
| 6/26/2013 14:00 | 6/26/2013 17:30 | 3.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 178' ft, F/5,610 '- T/ 5,788'. wob 35 k, diff 650 psi, spp 2,251, tq 18 k, 175 spm, 670 gpm, 50.85' ft/hr rop. Made connection at 5,788' .Took svy at 5,723 0.22° Incl, 53.66° Az. Continue Rotary Drilling |
| 6/26/2013 17:30 | 6/26/2013 18:00 | 0.5 | INT-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Service rig, TDS, draw works and generators |
| 6/26/2013 18:00 | 6/26/2013 18:30 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 12' ft, F/5,788 '- T/ 5,800'. wob 40 k, diff 550 psi, spp 2,150, tq 18 k, 175 spm, 670 gpm, 30' ft/hr rop. |
| 6/26/2013 18:30 | 6/26/2013 19:30 | 1 | INT-CIRC | CIRCULATE | CIRC | Circulate pump high vis. LCM sweep.(Small amount of cutting coming back over shakers). Fill trip tanks, hold safety meeting, pump slug and prepare to trip out of the hole to change out bit due to low rop. |
| 6/26/2013 19:30 | 6/26/2013 21:00 | 1.5 | INT-TRIP | TOOH | TRIP | TOH F/8,500- T/3,530' MD -to change out bit and motor. Hole taking proper fill from trip tanks, flow check performed @ 4835, no flow observed, no excessive drag observed. |
| 6/26/2013 21:00 | 6/26/2013 21:30 | 0.5 | UNPLANNED | Other - Anything not listed above | U_OTR | Safety Standown- Pull derrick man out of derrick, gather rig crews, rig manager, and PNR rep in meeting room to discuss details of fatality as per drilling superintendent email. Discussed the importance of not working on equipment that is has not been locked out tagged out tried out, working in areas where you can not be seen without notifying someone, and think before performing maintenance on equipment you are not in control of operating. |
| 6/26/2013 21:30 | 6/27/2013 00:00 | 2.5 | INT-TRIP | TOOH | TRIP | Continue TOH F/3,530 - BHA - to change out bit and motor. Hole taking proper fill from trip tanks, no excessive drag observed. |
| 6/27/2013 00:00 | 6/27/2013 01:00 | 1 | INT-TRIP | TOOH | TRIP | Drain motor, motor drained strong, and no visible damage was seen. Broke bit off. Pulled out MWD, and changed out motor. PNR representative verified pipe count in derrick to be correct. |
| 6/27/2013 01:00 | 6/27/2013 01:30 | 0.5 | INT-TRIP | TOOH | TRIP | Pull and inspect wear bushing, no visible damage, reinstalled, verified set screws are in place. |
| 6/27/2013 01:30 | 6/27/2013 03:00 | 1.5 | INT-TRIP IN HOLE | TRIP IN HOLE | TIH | Picked up 6/7 lobe _ 4.0 stage motor with fixed housing set @ 1.83° (rev/gal= .15). Scribed BHA. Made up Hughes PD607X, jetted with 7/13's (0.907 TFA) |
| 6/27/2013 03:00 | 6/27/2013 06:00 | 3 | INT-TRIP IN HOLE | TRIP IN HOLE | TIH | TIH with BHA #3. Fill pipe up once out of shoe @ 600 then again @ 3,000 ft. T/I/H speed 150' |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 6 Daily Operation: 6/27/2013 06:00 - 6/28/2013 06:00

| | | | | | | |
|-------------------------------|------------------------------|------------------------------|------------------------------------|--------------------------------|-------------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) 5 | Days on Location (days) 6 | End Depth (ftGRD) 7,183.5 | End Depth (TVD) (ftGRD) 7,181.3 | Dens Last Mud (lb/gal) 8.80 | Rig H & P, 497 | |

Operations Summary

Wash and ream back to bottom @ 5,800'. Rotate and slide drill intermediate

Remarks

Rig (H&P 497) & Well Progress:

13.35 days on location, 5.6 days since rig accepted on 6/22/2013 @ 15:30, 5.33 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 8.5 hrs NPT for month of June

Completion percentage: Surface: 100% | Intermediate: 88% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 7,115' ' MD - 0.090° Incl, 198.29° Az. 3' Ahead and 12' Right

1 corrosion ring installed 6/24/2013 @ 21:30, (78.0 cum Hrs) 0 drums inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service.

Motor 1.83 bend, 4.0 6/7, BTB 7.15, 0.15 RPG

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|------------------|-----------------------|------------|--|
| 6/27/2013 06:00 | 6/27/2013 06:30 | 0.5 | PLAN | PERS | SFTY | JSA on tripping and washing and reaming. |
| 6/27/2013 06:30 | 6/27/2013 07:30 | 1 | INT-TRIP IN HOLE | TRIP IN HOLE | TIH | T/I/H F/4462 T/ 5315 @ 75' FPH Proper displacement observed |
| 6/27/2013 07:30 | 6/27/2013 08:00 | 0.5 | INT-W&R | WASH & REAM | WASH_R EAM | Wash and ream F/ 5,315' T/ 5,800' rpm 50 pp 1200 spm 120 gpm 459 tq 4.5 Full returns |
| 6/27/2013 08:00 | 6/27/2013 08:30 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 83' ft, F/5,800' - T/ 5,883'. wob 30 k, diff 700 psi, spp 2,824, tq 13 k, 130 spm, 497 gpm, 130.00' ft/hr rop. Full Returns Made connection at 5,883' .Took svy at 5,723 0.22° Incl, 53.66° Az.Slide Drill |
| 6/27/2013 08:30 | 6/27/2013 11:00 | 2.5 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/5,883' - T/5,896, 13' ft, rop 5. wob 15k, diff300 psi, Full Returns spp 1,243 psi, tq 1.0 k, 130 spm, 497 gpm TF 270 M |
| 6/27/2013 11:00 | 6/27/2013 13:30 | 2.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 179' ft, F/5,896' - T/ 6,075'. wob 30 k, diff 700 psi, spp 2,824, tq 11 k, 130 spm, 497 gpm, 71.60' ft/hr rop. Full Returns |
| 6/27/2013 13:30 | 6/27/2013 14:00 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 83' ft, F/6,075' - T/ 6,167'. wob 30 k, diff 600 psi, spp 1,497, tq 16 k, 150 spm, 585 gpm, 130.00' ft/hr rop. Full Returns Made connection at 6,167' .Took svy at 6,103 0.62° Incl, 71.86° Az.Slide Drill |
| 6/27/2013 14:00 | 6/27/2013 15:30 | 1.5 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/6,167' - T/6,182, 15' ft, rop 10. wob 15k, diff150 psi, Full Returns spp 1,243 psi, tq 1.0 k, 130 spm, 497 gpm TF 300 M |
| 6/27/2013 15:30 | 6/27/2013 17:00 | 1.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 168' ft, F/6,167' - T/ 6,360'. wob 30 k, diff 600 psi, spp 1,874, tq 13 k, 150 spm, 585 gpm, 112.00' ft/hr rop. Full Returns Made connection at 6,357' .Took svy at 6,292 1.28° Incl, 14.49° Az. Continue to Rotate |
| 6/27/2013 17:00 | 6/27/2013 17:30 | 0.5 | INT-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Service rig, TDS and Pipe wrangler |
| 6/27/2013 17:30 | 6/27/2013 18:00 | 0.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 168' ft, F/6,360' - T/ 6,389'. wob 30 k, diff 600 psi, spp 1,874, tq 13 k, 150 spm, 585 gpm, 120.00' ft/hr rop. Full Returns |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------------|-----------------------|-----------|--|
| 6/27/2013 18:00 | 6/27/2013 19:00 | 1 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 63' ft, F/6,389' - T/ 6,452'. wob 30 k, diff 600 psi, spp 2,000, tq 16 k, 150 spm, 585 gpm, 63.00' ft/hr rop. Full Returns |
| 6/27/2013 19:00 | 6/27/2013 21:00 | 2 | INT-DRILL-VERT | DRILL INT VERT-SLIDE | DRL-SLIDE | Slide Drill Intermediate Section F/6,452' - T/6,477', 30' ft, rop 12.5 wob 20k, diff200 psi, spp 1,600 psi, tq 4.0 k, 150 spm, 585 gpm TF 220 M Full Returns |
| 6/27/2013 21:00 | 6/28/2013 00:00 | 3 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 259' ft, F/6,477' - T/ 6,736'. wob 30 k, diff 550 psi, spp 1,900, tq 15 k, 150 spm, 585 gpm, 125.00' ft/hr rop. Full Returns |
| 6/28/2013 00:00 | 6/28/2013 01:00 | 1 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 95' ft, F/6,736' - T/ 6,831'. wob 30 k, diff 450 psi, spp 1,300, tq 13 k, 112 spm, 430 gpm, 75.00' ft/hr rop. |
| 6/28/2013 01:00 | 6/28/2013 04:00 | 3 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 190' ft, F/6,831' - T/ 7,021'. wob 30 k, diff 450 psi, spp 2,000, tq 13 k, 150 spm, 585 gpm, 110.00' ft/hr rop. Full Returns |
| 6/28/2013 04:00 | 6/28/2013 06:00 | 2 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 189' ft, F/7,021' - T/ 7,210'. wob 30 k, diff 500 psi, spp 2,000, tq 15 k, 150 spm, 585 gpm, 100.00' ft/hr rop. Full Returns |

Report #: 7 Daily Operation: 6/28/2013 06:00 - 6/29/2013 06:00

| | | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|--|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 6 | 7 | 8,083.5 | 8,081.3 | 9.00 | H & P, 497 | | |

Operations Summary

Rotate and slide intermediate hole F/7,210 T/ 8,110', Circulate, TOO, Prepare to Run 9-5/8" Intermediate Casing

Remarks

Rig (H&P 497) & Well Progress:

14.35 days on location, 6.6 days since rig accepted on 6/22/2013 @ 15:30, 6.33 days since spud

Rig move days: 5.00

Rig NPT: 0.5 hours for previous 24 hours. 9.0 hrs NPT for month of June

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 8,110' ' MD - 0.62° Incl, 166.47° Az. 8' Ahead and 17' Right

1 corrosion ring installed 6/24/2013 @ 21:30 and removed 6/29/2013 @ 4:30, (103.0 cum Hrs): 1 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service.

Motor 1.83 bend, 4.0 6/7, BTB 7.15, 0.15 RPG

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------------|-----------------------|-----------|---|
| 6/28/2013 06:00 | 6/28/2013 09:30 | 3.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 240' ft, F/7,210' - T/ 7,450'. wob 30 k, diff 650 psi, spp 2,072, tq 13 k, 150 spm, 585 gpm, 68.57' ft/hr rop. Full Returns Made connection at 7,305' .Took svy at 7,240' 0.22° Incl, 229.75° Az.Slide Drill |
| 6/28/2013 09:30 | 6/28/2013 13:00 | 3.5 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 236' ft, F/7,450' - T/ 7,686'. wob 26 k, diff 650 psi, spp 1,881, tq 16 k, 150 spm, 585 gpm, 67.42' ft/hr rop. Full Returns Made connection at 7,686' .Took svy at 7,618' 0.40° Incl, 176.79° Az. Continue to Rotate |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------------|---------------------------------|-----------|---|
| 6/28/2013 13:00 | 6/28/2013 17:00 | 4 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 282' ft, F/7,686 '- T/ 7,968, wob 35 k, diff 650 psi, spp 1,799, tq 16 k, 150 spm, 585 gpm, 125.00' ft/hr rop. Full Returns Made connection at 7,686' .Took svy at 7,618' 0.40° Incl, 176.79° Az. Continue to Rotate |
| 6/28/2013 17:00 | 6/28/2013 17:30 | 0.5 | PLAN | EQUIP | RIGSER | Rig Service- Lubricate Top Drive |
| 6/28/2013 17:30 | 6/28/2013 19:30 | 2 | INT-DRILL-VERT | DRILL INT VERT-ROTATE | DRL-ROT | Rotate Drill Intermediate Section 142' ft, F/7,968 '- T/ 8,110'. wob 35 k, diff 700 psi, spp 2,000, tq 17 k, 150 spm, 585 gpm, 75.00' ft/hr rop. Full Returns Made connection at 8,060' .Took svy at 7,997' 0.62° Incl, 166.47° Az. Continue to Rotate |
| 6/28/2013 19:30 | 6/28/2013 22:00 | 2.5 | INT-CIRC | CIRCULATE | CIRC | Circulate & Condition mud. Pump sweep around to clean hole. Spot 85 bbl LCM pill on bottom. |
| 6/28/2013 22:00 | 6/29/2013 00:00 | 2 | INT-TRIP | TOOH | TRIP | TOOH F/8,110- T/3,500' MD to run 9 5/8" casing. Hole taking proper fill from trip tanks, flow check performed @ 8,110', no flow observed, no excessive drag observed. |
| 6/29/2013 00:00 | 6/29/2013 00:30 | 0.5 | UNPLANNED | Rig Repair (CODE 8, Rig Repair) | U_RIG | Change out broken hydraulic hose on ST-80 |
| 6/29/2013 00:30 | 6/29/2013 04:30 | 4 | INT-TRIP | TOOH | TRIP | TOOH F/3,500- T/0' MD to run 9 5/8" casing. Hole taking proper fill from trip tanks, flow check performed @ 3,500', no flow observed, no excessive drag observed. |
| 6/29/2013 04:30 | 6/29/2013 06:00 | 1.5 | INT-CASE | RUN INTERMEDIATE CASE | CASE | Pull wear bushing, prepare to R/U casing running equipment |

Report #: 8 Daily Operation: 6/29/2013 06:00 - 6/30/2013 06:00

| | | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|--|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 7 | 8 | 8,083.5 | 8,081.3 | 9.00 | H & P, 497 | | |

Operations Summary

Wash out stack and slip bowl, level derrick, R/U casing crew and run 9-5/8" Intermediate casing to TD. Begin Intermediate cmt job

Remarks

Rig (H&P 497) & Well Progress:

15.35 days on location, 7.6 days since rig accepted on 6/22/2013 @ 15:30, 7.33 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 9.0 hrs NPT for month of June

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 8,110' ' MD - 0.62° Incl, 166.47° Az. 8' Ahead and 17' Right

1 corrosion ring installed 6/24/2013 @ 21:30 and removed 6/29/2013 @ 4:30, (103.0 cum Hrs): 1 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 6/29/2013 06:00 | 6/29/2013 09:30 | 3.5 | COMPL | ND, NU, Testing, Sleeve Installation, Greasing Wel | WLHEAD | Wash out BOP and well head. Level derrick to run csg |
| 6/29/2013 09:30 | 6/29/2013 11:30 | 2 | INT-CASE | RUN INTERMEDIATE CASE | CASE | Hold safety meeting / perform JSA with casing crew (Tesco), H&P rig crew, and PNR personnel on R/U casing running equipment. R/U Tesco CRT and function test same |
| 6/29/2013 11:30 | 6/29/2013 12:00 | 0.5 | INT-CASE | RUN INTERMEDIATE CASE | CASE | Hold safety meeting / perform JSA with casing crew (Tesco), H&P rig crew, and PNR personnel on running 9-5/8" Intermediate casing |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|-------------------------|-----------|---|
| 6/29/2013 12:00 | 6/29/2013 12:30 | 0.5 | INT-CASE | RUN INTERMEDIATE CASE | CASE | M/U float shoe, 2 joint shoe track, and float collar (thread lock on shoe track + 1 joints above float collar). RIH and pump through floats @ 50 spm and 100 psi SPP - proper fill strokes observed / test good. Monitoring hole on trip tank. Total shoe track length = 95.54' |
| 6/29/2013 12:30 | 6/29/2013 15:00 | 2.5 | INT-CASE | RUN INTERMEDIATE CASE | CASE | Run 28 jts of 9-5/8" 43.5 ppf L-80 LTC Intermediate casing F/ surface T/ 1,286' MD and break circulation M/U Torque: 8,100 ft-lbs Notes: Well giving proper displacement to trip tank, proper fill strokes observed, place centralizer every 3 jts |
| 6/29/2013 15:00 | 6/29/2013 17:30 | 2.5 | INT-CASE | RUN INTERMEDIATE CASE | CASE | Run 20 jts 9-5/8" 43.5 ppf L-80 LTC Intermediate casing F/ 1,286' MD T/ 2,212' MD. Run 10 jts 9-5/8" 40 ppf L-80 LTC Ryte Wrap Intermediate casing F/ 2,212' MD T/ 2,681' MD M/U Torque: 8,100 ft-lbs for 43.5 ppf and 7,100 ft-lbs for 40 ppf Notes: Well giving proper displacement to trip tank, place centralizer every 3 jts. Notified TRRC @ 17:00 of upcoming intermediate cmt job |
| 6/29/2013 17:30 | 6/29/2013 18:00 | 0.5 | INT-CIRC | CIRCULATE | CIRC | Circulate @ 2,681' MD w/ 330 gpm - full returns |
| 6/29/2013 18:00 | 6/29/2013 19:30 | 1.5 | INT-CASE | RUN INTERMEDIATE CASE | CASE | Run 9-5/8" 40 ppf L-80 LTC Ryte Wrap Intermediate casing F/ 2,681' MD T/ 5,151' MD @ 150 ft/min M/U Torque: 7,100 ft-lbs Notes: Well giving proper displacement to trip tank, place centralizer every 3 jts |
| 6/29/2013 19:30 | 6/29/2013 20:00 | 0.5 | INT-CIRC | CIRCULATE | CIRC | Circulate @ 5,151' MD w/ 330 gpm - full returns |
| 6/29/2013 20:00 | 6/29/2013 21:30 | 1.5 | INT-CASE | RUN INTERMEDIATE CASE | CASE | Run 9-5/8" 40 ppf L-80 LTC Intermediate casing F/ 5,151' MD T/ 6,032' MD @ 150 ft/min M/U Torque: 7,100 ft-lbs Notes: Well giving proper displacement to trip tank |
| 6/29/2013 21:30 | 6/29/2013 22:00 | 0.5 | INT-CIRC | CIRCULATE | CIRC | Circulate @ 6,032' MD w/ 330 gpm - full returns |
| 6/29/2013 22:00 | 6/30/2013 00:00 | 2 | INT-CASE | RUN INTERMEDIATE CASE | CASE | Run 9-5/8" 40 ppf L-80 LTC Intermediate casing F/ 6,032' MD T/ 8,110' MD @ 150 ft/min. M/U casing hanger per procedure w/ Seaboard personnel M/U Torque: 7,100 ft-lbs Notes: Well giving proper displacement to trip tank |
| 6/30/2013 00:00 | 6/30/2013 02:30 | 2.5 | INT-CIRC | CIRCULATE | CIRC | Circulate 1.5x casing volume @ 8,110' MD w/ 330 gpm. Full Returns |
| 6/30/2013 02:30 | 6/30/2013 03:30 | 1 | INT-CASE | RUN INTERMEDIATE CASE | CASE | R/D CRT & Casing Tools |
| 6/30/2013 03:30 | 6/30/2013 05:00 | 1.5 | INT-CMT | CEMENT INTERMEDIATE CSG | CMT | Hold safety meeting / perform JSA with SLB, H&P, and PNR personnel on R/U cementing crew. R/U SLB cement lines, cement head & tools. PNR personnel observed loading of top and bottom plugs - verified correct order. Lines pressure tested to 3,500 psi |
| 6/30/2013 05:00 | 6/30/2013 06:00 | 1 | INT-CMT | CEMENT INTERMEDIATE CSG | CMT | Begin pumping 9-5/8" Intermediate cement job as follows: 50 bbls of 10.0 ppg Mudpush Express @ 4.0 bpm 456 bbls of 11.0 ppg TXI Lead Cmt @ 5.0 bpm 35 bbls of 16.4 ppg Tack Tail Cmt @ 5.5 bpm 585 bbls 10.3 ppg OBM @ 7.0 bpm |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 9 Daily Operation: 6/30/2013 06:00 - 7/1/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 8 | 8 | 8,083.5 | 8,081.3 | 9.00 | H & P, 497 | |

Operations Summary

Cement 9-5/8" Intermediate casing. R/D SLB cmt equip. Install pack off and test. Laydown landing joint, nipple down and install dry hole cap. Release rig @ 18:00 hrs 6-30-2013

Remarks

Rig (H&P 497) & Well Progress:

15.85 days on location, 8.1 days since rig accepted on 6/22/2013 @ 15:30, 7.83 days since spud

Rig Released From Intermediate hole @ 18:00 6-30-2013

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 9.0 hrs NPT for month of June

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 8,110' ' MD - 0.62° Incl, 166.47° Az. 8' Ahead and 17' Right

1 corrosion ring installed 6/24/2013 @ 21:30 and removed 6/29/2013 @ 4:30, (103.0 cum Hrs): 1 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|--|-----------|---|
| 6/30/2013 06:00 | 6/30/2013 09:30 | 3.5 | INT-CMT | CEMENT INTERMEDIATE CSG | CMT | Continue cementing 9-5/8" Intermediate casing as follows: 50 bbls of 10.0 ppg Mudpush Express @ 4.0 bpm 456 bbls of 11.0 ppg TXI Lead Cmt @ 5.0 bpm 35 bbls of 16.4 ppg Tack Tail Cmt @ 5.5 bpm 585 bbls 10.3 ppg OBM @ 2.0 bpm Bump plug 602 bbls into displacement and 1,000 psi (500 psi over final circulating pressure of 500 psi @ 2.0 bpm) Bleed back 1.5 bbls - floats held Notes: No cement returns to surface. Full returns throughout job Shoe @ 8106. |
| 6/30/2013 09:30 | 6/30/2013 11:00 | 1.5 | INT-CMT | CEMENT INTERMEDIATE CSG | CMT | Top cellar off to well head base plate |
| 6/30/2013 11:00 | 6/30/2013 12:00 | 1 | INT-CMT | CEMENT INTERMEDIATE CSG | CMT | Rig down Schlumberger and wash out all mud lines,B.O.P and choke. |
| 6/30/2013 12:00 | 6/30/2013 18:00 | 6 | COMPL | ND, NU, Testing, Sleeve Installation, Greasing Wel | WLHEAD | Install pack off and test. Laydown landing joint and nipple down. Install dry hole cap and prepare to skid. Release Rig @ 16:00 6-30-2013 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 10 Daily Operation: 7/16/2013 10:30 - 7/17/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|-------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | | Primary Job Type ODR | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 24 | 9 | 8,083.5 | 8,081.3 | 9.00 | H & P, 497 | |

Operations Summary

Prep to Skid Rig, Replace B-Section, Skid Rig. Nipple Up BOP, Test BOP

Remarks

Rig (H&P 497) & Well Progress:

31.85 days on location, 8.91 days since rig accepted on 6/22/2013 @ 15:30, 8.64 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 0% | Lateral: 0%

Well Plan: PTB @ 8,110' ' MD - 0.62° Incl, 166.47° Az. 8' Ahead and 17' Right

1 corrosion ring installed 7/17/2013, (0 cum Hrs): 0 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------|-----------------|-----------|---|
| 7/16/2013 10:30 | 7/16/2013 13:00 | 2.5 | MOBILIZATION | MIRU | MIRU | Prepair to skid rig from the University 2-20 #12H to the University 2-20 #14H. |
| 7/16/2013 13:00 | 7/16/2013 14:00 | 1 | MOBILIZATION | MIRU | MIRU | Skid Skid over the University 2-20 #13H |
| 7/16/2013 14:00 | 7/16/2013 18:00 | 4 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Replace B-Section In Wellhead |
| 7/16/2013 18:00 | 7/16/2013 21:30 | 3.5 | MOBILIZATION | MIRU | MIRU | Skid Rig over University 2-20 #14H. Pioneer Rep. Observed rig centered over hole. Note: Had to level catwalk prior to getting over hole due to ground be saturated causing it to dig in and sink to right side. You can not level catwalk once rig is over hole due to the jacks being over the top of the previous well's cellar. |
| 7/16/2013 21:30 | 7/16/2013 22:00 | 0.5 | MOBILIZATION | MIRU | MIRU | Unhook and remove skid package hoses and control panel and prep to nipple up. |
| 7/16/2013 22:00 | 7/17/2013 04:00 | 6 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Nipple up BOPE, make up spools. Install B.O.P, choke line, kill line, HCR valve, closing lines, and flow nipple. Center stack and stabilize. Note: Issues with making up the choke line due to the flow line stand on the off drillers side in the way causing added time to get the choke line in position to try to hook up. Once in place it takes some time to get the hose in position to hook up do too the bend needed around the stand so the flanges line up. Had to remove skid rails on drillers side to be able to get the man lift and forklift into to position to work the bell nipple and flow line, we had the same issues as last time we nipped up on this well with the flow line being off centered even with the bell nipple being slotted we still had to jack the flow line over to the V-door side to make it up causing additional time in the nipple up. With the flow line stands on the off drillers side there is a very small space to pull the bell nipple and get the man lift in to nipple up. |
| 7/17/2013 04:00 | 7/17/2013 04:30 | 0.5 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Rig Down Casing Bales and Elevators, and Install Rig Bales and Elevators. |
| 7/17/2013 04:30 | 7/17/2013 05:00 | 0.5 | PROD-TRIP | TRIP | TRIP | Hold Pre Job Safety Meeting and Rig Up Testers. |
| 7/17/2013 05:00 | 7/17/2013 06:00 | 1 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Test BOPE to 2,500 psi High, 250 psi Low |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 11 Daily Operation: 7/17/2013 06:00 - 7/18/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|-------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | | Primary Job Type ODR | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 25 | 10 | 8,251.5 | 8,249.2 | 9.80 | H & P, 497 | |

Operations Summary
Test BOP, Test Casing, Install Drip Pans, Install Wear Bushing, Pick up BHA, Lay Down Drill Collars, Trip in Hole, Drill Float Equipment, FIT Test, Drill Curve Section 8,278'MD

Remarks

Rig (H&P 497) & Well Progress:

32.85 days on location, 9.91 days since rig accepted on 6/22/2013 @ 15:30, 9.64 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 6% | Lateral: 0%

Well Plan: PTB @ 8,195' ' MD - 0.20° Incl, 127.40° Az. 0 On the Line and 1' Left

No corrosion ring installed, (0 cum Hrs): 0 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|-------------------|--------------------|---------------|--|
| 7/17/2013 06:00 | 7/17/2013 09:30 | 3.5 | SURF-NU/TEST-SURF | NIPPLE UP/TEST | NU/TEST | Test Anular, Pipe rams, Blind rams, HCR and kill lines. Test all choke manifold valves. Test Upper kelly valve and IBOP. Test TIW Valve and Dart valve. Test mud lines back to pumps. Test 2500 psi hi and 250 low. |
| 7/17/2013 09:30 | 7/17/2013 10:30 | 1 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Test 9 5/8 casing 2500 psi w/ 10# mud in the hole. Held test 30 minutes with no leak off. |
| 7/17/2013 10:30 | 7/17/2013 13:00 | 2.5 | INT-NU/TEST | NIPPLE UP/TST | NU/TEST | Install drain pan and hook up fill up line. |
| 7/17/2013 13:00 | 7/17/2013 14:00 | 1 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Install wear bushing and mouse hole sleeve |
| 7/17/2013 14:00 | 7/17/2013 16:00 | 2 | PROD-TRIP | TRIP | TRIP | Set MWD in place, and confirm good seat. Shallow test motor & MWD. Good Test. Make up 8 1/2" HughesDP505S, dressed with 6/20's (1.84 TFA). |
| 7/17/2013 16:00 | 7/17/2013 18:00 | 2 | PROD-TRIP | TRIP | TRIP | TIH F/98' MD T/3,037' MD. Monitoring well on trip tank - hole giving proper displacement |
| 7/17/2013 18:00 | 7/17/2013 19:30 | 1.5 | PROD-TRIP | TRIP | TRIP | Trip In and Lay Down 5 Stands of 5 in HWDP |
| 7/17/2013 19:30 | 7/17/2013 22:30 | 3 | PROD-TRIP | TRIP | TRIP | TIH F/3,037' MD T/7,206' MD. Monitoring well on trip tank - hole giving proper displacement. Flow out 17-20 each stand. |
| 7/17/2013 22:30 | 7/18/2013 00:00 | 1.5 | PROD-TRIP | TRIP | TRIP | Strap and Pick Up Drill Pipe from Rack F/7,206' MD T/8,004' MD Tag Cement @ 8,004' MD |
| 7/18/2013 00:00 | 7/18/2013 01:00 | 1 | PROD-W&R | WASH & REAM | WASH_R EAM | Drill cement and float equipment. Tagged Float @ 8,014' MD, Tagged Shoe @ 8,110' MD. 1,650 psi SPP 10K wob, 25 rpm, 94 spm, 360 gpm 200 diff 101 motor rpm. |
| 7/18/2013 01:00 | 7/18/2013 01:30 | 0.5 | PROD-DRILL CURVE | DRILL CURVE-ROTATE | DRL CURVE-ROT | Rotate Drill 8-1/2" Hole 15' @ 30 ft/hr:12k WOB, 40 TD RPM, 130 spm, 498 gpm, 140 Motor RPM, 1750 psi SPP, 300 psi diff, 4k TQ Notes: Full returns (26% flow); circulating through mud pits. MW 10.0 ppg, 55 vis. |
| 7/18/2013 01:30 | 7/18/2013 02:00 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Ciculate and Condition Mud to 10.0 ppg, |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|---------------------|------------------------|------------------------|--|
| 7/18/2013 02:00 | 7/18/2013 02:30 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Perform F.I.T. Test(12 – 10.0) x 0.052 x 8,125' = 845 psi Bring Strokes Up 1/2 bbl's Increments. 0.50 bbl- 150 psi SPP 1.0 bbl- 400 psi SPP 1.5 bbl's 580 psi SPP 2.0 bbl's 750 psi SPP 2.1 bbl's 845 psi SPP 845 psi SPP= 12.0 ppg EMW. Total stks 23 = 2.1 bbl's. Held 845 psi for 15 minutes. Informed Jess Arnold and Annan Pascoe. |
| 7/18/2013 02:30 | 7/18/2013 05:00 | 2.5 | PROD-DRILL CURVE | DRILL CURVE- ROTATE | DRL CURVE- ROT | Rotate Drill 8-1/2" Curve 123' @ 61 ft/hr: 20k WOB, 90 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 250 psi Diff, 2,600 psi SPP, 5k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 9.9+ Vis 65 Connection @ 8185' MD. Survey @ 8132' MD: 0.6° Inc, 133.3° Az. Slide Drill |
| 7/18/2013 05:00 | 7/18/2013 06:00 | 1 | PROD-DRILL CURVE | DRILL CURVE-SLIDE | DRL CURVE- SLIDE | Slide Drill 8-1/2" Curve 30' @ 30 ft/hr: 20k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 150 psi Diff, 2550 psi SPP, 0k TQ, 195R MTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream every stand. MW 9.9+ Vis 62 |

Report #: 12 Daily Operation: 7/18/2013 06:00 - 7/19/2013 06:00

| | | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|-------------------------|------------|--|----------------------|
| Job Category ORIG DRILLING | | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 26 | 11 | 10,022.5 | 8,853.6 | 9.90 | H & P, 497 | | |

Operations Summary

Drill Curve Section T/9,196' MD, Drill Lateral Section T/ 10,049' MD

Remarks

Rig (H&P 497) & Well Progress:

33.85 days on location, 10.91 days since rig accepted on 6/22/2013 @ 15:30, 10.64 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 5%

Well Plan: PTB: 9765' INC: 92.8, AZM: 184.6', TVD: 8883.15', A/B: .0 Above, L/R: 2.0' left,

No corrosion ring installed, (0 cum Hrs): 0 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|---------------------|------------------------------|------------------------|---|
| 7/18/2013 06:00 | 7/18/2013 07:00 | 1 | INT-DRILL-TAN | DRILL INT TANGENT- ROTATE | DRL-ROT | Rotate Drill 8-1/2" Curve 65' @ 65 ft/hr: 25k WOB, 70 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 2650 psi SPP, 6k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 9.9+ Vis 57 |
| 7/18/2013 07:00 | 7/18/2013 09:00 | 2 | PROD-DRILL CURVE | DRILL CURVE-SLIDE | DRL CURVE- SLIDE | Slide Drill 8-1/2" Curve 126' @ 63 ft/hr: 26k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 400 psi Diff, 2600 psi SPP, 0k TQ, R MTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 9.9+ Vis 57 |
| 7/18/2013 09:00 | 7/18/2013 12:00 | 3 | PROD-DRILL CURVE | DRILL CURVE-SLIDE | DRL CURVE- SLIDE | "Slide Drill 8-1/2"" Curve 200' @ 66 ft/hr: 25k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 400 psi Diff, 2650 psi SPP, 2k TQ, 0R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed . MW 9.9 Vis 56 Connection @ 8639' MD. Survey @ 8574' MD: 25.3° Inc, 199.4° Az. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|------------------------|---|
| 7/18/2013 12:00 | 7/18/2013 14:30 | 2.5 | PROD-DRILL CURVE | DRILL CURVE-SLIDE | DRL CURVE- SLIDE | "Slide Drill 8-1/2"" Curve 157' @ 62 ft/hr: 26k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 400 psi Diff, 2650 psi SPP, 2k TQ, 0R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 9.9 Vis 56 Connection @ 8817' MD. Survey @ 8764' MD: 40.1° Inc, 196.4° Az. Slide Drilling F/ 8715 T/ 8750 drilling ratty. Tool face jumping 180* Not getting build rates @ 8,720 TVD |
| 7/18/2013 14:30 | 7/18/2013 15:00 | 0.5 | INT-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Service TDS, crown-o-matic check |
| 7/18/2013 15:00 | 7/18/2013 18:00 | 3 | PROD-DRILL CURVE | DRILL CURVE-SLIDE | DRL CURVE- SLIDE | Slide Drill 8-1/2" Curve 158' @ 52 ft/hr: 30k WOB, 140 spm, 536 gpm, 150 RPM, 350 psi Diff, 2700 psi SUPP, 2k TQ, 0R GIF. Full returns while circulating through pits. Pumping sweeps as needed. MW 9.9 vs 55 Connection @ 8912' MD. Survey @ 8859' MD: 50.02° Inc, 193.8° Az. Slide Drill Gas Detector not working properly- Contacted Pason Tech @ 18:30 to repair. |
| 7/18/2013 18:00 | 7/18/2013 21:00 | 3 | PROD-DRILL CURVE | DRILL CURVE-SLIDE | DRL CURVE- SLIDE | Slide Drill 8-1/2" Curve 158' @ 52 ft/hr: 28k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 350 psi Diff, 2700 psi SPP, 2k TQ, 0R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 9.9 Vis 52 Connection @ 9097' MD. Survey @ 9048' MD: 73.1° Inc, 197.2° Az. Slide Drill Called for 1 load of Mud Diesel and 1 load of Rig Diesel to be delivered tomorrow morning. |
| 7/18/2013 21:00 | 7/18/2013 22:30 | 1.5 | PROD-DRILL CURVE | DRILL CURVE-SLIDE | DRL CURVE- SLIDE | Slide Drill 8-1/2" Curve 63' @ 42 ft/hr: 33k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 350 psi Diff, 2700 psi SPP, 2k TQ, 30L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 9.9 Vis 56 Connection @ 9196' MD. Survey @ 9143' MD: 85.2° Inc, 192.3° Az. Slide Drill Notes: Landed the Curve @ 9196-PTB: 9196', INC: 91.9, AZM: 189.0, TVD: 8896.50 A/B: 13.0 Below, L/R: 13.0 Right, DNL: Landed MY: 13.7 Pason Technician arrived on location @ 23:00 to repair Gas Detector. Note: Was informed landing depth was changed after already landing - estimated to be 37 ft. low and was instructed to build 2 ft. per 100 ft as per Jess Arnold and Annan Pascoe. |
| 7/18/2013 22:30 | 7/18/2013 23:00 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | Slide Drill 8-1/2" Lateral 26' @ 52 ft/hr: 33k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 350 psi Diff, 2700 psi SPP, 2k TQ, 90L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 9.9 Vis 55 |
| 7/18/2013 23:00 | 7/19/2013 00:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | Rotate Drill 8-1/2" Lateral 88' @ 88 ft/hr: 27k WOB, 30 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 650 psi Diff, 3100 psi SPP, 9k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 55 Connection @ 9310' MD. Survey @ 9285' MD: 89.8° Inc, 182.4° Az. Rotate Drill Notes: PTB: 9291 INC: 89.8, AZM: 182.4', TVD: 8899.50', DLS: 11.52, A/B: 12.0 Behind, L/R: 1.0' Right, DNL: Landed. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|---------------------|---------------------------|-------------|--|
| 7/19/2013 00:00 | 7/19/2013 02:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 264' @ 132 ft/hr: 32k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 650 psi Diff, 3100 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 55 Connection @ 9575' MD. Survey @ 9522' MD: 92.5° Inc, 185° Az. Rotate Drill Notes: PTB: 9575' INC: 92.5, AZM: 185.0', TVD: 8891.80', A/B: 7.0 Behind, L/R: 14.0' left, DNL: Landed |
| 7/19/2013 02:00 | 7/19/2013 04:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 197' @ 98 ft/hr: 32k WOB, 90 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 650 psi Diff, 3100 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 53 Connection @ 9773' MD. Survey @ 9712' MD: 92.8° Inc, 184.6° Az. Slide Drill |
| 7/19/2013 04:00 | 7/19/2013 04:30 | 0.5 | PROD-DRILL VERTICAL | DRILL PROD VERTICAL-SLIDE | DRL-SLIDE | Slide Drill 8-1/2" Lateral 30' @ 60 ft/hr: 40k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 2700 psi SPP, 2k TQ, 100L GTF. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 53 |
| 7/19/2013 04:30 | 7/19/2013 06:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 246' @ 164' ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 550 psi Diff, 3000 psi SPP, 10k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 63 |

Report #: 13 Daily Operation: 7/19/2013 06:00 - 7/20/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 27 | 12 | 10,553.5 | 8,839.8 | 9.90 | H & P, 497 | |

Operations Summary

Drilling Lateral Section F/ 10,049' MD T/10,580, MD, Pump Sweep,Trip Out of the Hole, Change Out BHA, Trip in Hole T/9,400' MD

Remarks

Rig (H&P 497) & Well Progress:

34.85 days on location, 11.91 days since rig accepted on 6/22/2013 @ 15:30, 11.64 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 9%

Well Plan: PTB: 10,523' INC: 92.3, AZM: 181.5', TVD: 8870.55', A/B: 10.0' Below, L/R: 6.0' Left Per Plan # 4

No corrosion ring installed, (0 cum Hrs): 0 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|-------------|--|
| 7/19/2013 06:00 | 7/19/2013 07:30 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 190' @ 126 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 550 psi Diff, 3000 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 Connection @ 10156' MD. Survey @ 10091' MD: 90.5° Inc, 180.3° Az. Slide Drill Notes: PTB: 10,144 INC: 90.5, AZM: 180.3', TVD: 8878.84', DLS: 0.19, A/B: 29.0 Behind, L/R: 2.0' " |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|---------------|---|
| 7/19/2013 07:30 | 7/19/2013 08:00 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 15' @ 30 ft/hr: 35k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 125 psi Diff, 2800 psi SPP, 1.1k TQ, 30R GTF. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 |
| 7/19/2013 08:00 | 7/19/2013 09:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 79' @ 79 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 400 psi Diff, 2900 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 Connection @ 10333' MD. Survey @ 10280' MD: 90.6° Inc, 180.3° Az. Slide Drill Notes: While drilling this 79' ROP dropped down to 30' FPH and torque is up as high as 17. Contacted Jess Arnold and Annan Pascoe and informed them of the situation. Annan contacted geology and we were told we were drilling in a lime streak." |
| 7/19/2013 09:00 | 7/19/2013 10:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | "Slide Drill 8-1/2"" Lateral 15' @ 15 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 2800 psi SPP, 1.1k TQ, 30R GTF. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 Connection @ 10333' MD. Survey @ 10280' MD: 90.6° Inc, 180.3° Az. Rotate Drill" |
| 7/19/2013 10:00 | 7/19/2013 11:30 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 78' @ 52 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 550 psi Diff, 2950 psi SPP, 14-17k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 Connection @ 10348' MD. Survey @ 10375' MD: 87.6° Inc, 181.4° Az. Slide Drill Notes: This survey was a check shot showing a 3* drop in TVD and DLS" |
| 7/19/2013 11:30 | 7/19/2013 12:30 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 30' @ 30 ft/hr: 30k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 225 psi Diff, 2600 psi SPP, 1k TQ, HS GTF. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 |
| 7/19/2013 12:30 | 7/19/2013 14:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 87' @ 58 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3000 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 Connection @ 10545' MD. Survey @ 10523' MD: 92.3° Inc, 181.5° Az. Slide Drill" |
| 7/19/2013 14:00 | 7/19/2013 14:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | "Slide Drill 8-1/2"" Lateral 15' @ 30 ft/hr: 39k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 2600 psi SPP, 1.1k TQ, HS GTF. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 Notes: Check shot showed a .5 deg loss of angle in 30ft" |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|--------------------|----------------------|-------------|---|
| 7/19/2013 14:30 | 7/19/2013 16:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 20' @ 13 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 550 psi Diff, 3000 psi SPP, 10k TQ. Full returns while circulating through pits. Pumping weighted sweeps every 5 connections. MW 9.9 Vis 60 Notes: We are 10,575 and back in the hard lime trying to work our way through and up" |
| 7/19/2013 16:00 | 7/19/2013 17:00 | 1 | PROD-CIRC | CIRCULATE | CIRC | ROP dropped and torque came up. Called Jess Arnold and let him know and discussed the situation. The decision was made to trip out of hole for penetration rate. Circulate 20 bbl's weighted sweep out of hole: 2,550 psi SPP, 80 RPM, 140 spm, 536 gpm, 2-4k TQ. Reciprocating drill pipe 90' |
| 7/19/2013 17:00 | 7/19/2013 23:30 | 6.5 | PROD-TRIP BHA | TRIP FOR BHA | TRIP BHA | TOH F/10,580' MD T- BHA to change out bit. filling hole every 5 stds. with trip tanks. Hole taking proper fill, no flow observed. |
| 7/19/2013 23:30 | 7/20/2013 00:00 | 0.5 | PROD-TRIP BHA | TRIP FOR BHA | TRIP BHA | Drain motor, motor drained strong, and no visible damage was seen. Broke bit off. Bit gauged at approx. 6 3/4 in. |
| 7/20/2013 00:00 | 7/20/2013 00:30 | 0.5 | PROD-TRIP BHA | TRIP FOR BHA | TRIP BHA | Pulled MWD, checked, set it back in place, and confirm good seat. Shallow test motor & MWD. Good Test. Make up 8 1/2" Hughes GX-22SDX Insert Bit, dressed with 3/22's (1.113 TFA). |
| 7/20/2013 00:30 | 7/20/2013 05:00 | 4.5 | PROD-TRIP | TRIP | TRIP | Trip in the Hole with BHA #5. Filling pipe every 20 stands. Hole displacing correctly, and 22 - 25% flow showing in each stand ran. |
| 7/20/2013 05:00 | 7/20/2013 06:00 | 1 | PROD-TRIP | TRIP | TRIP | Trip in the Hole with BHA #5 to casing shoe. Position bit outside shoe. Directional Driller on floor to oriented tool face up. Filled pipe, broke circulation, and continued in the hole. |

Report #: 14 Daily Operation: 7/20/2013 06:00 - 7/21/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|------------------------------------|---------------------------------|-------------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) 28 | Days on Location (days) 13 | End Depth (ftGRD) 10,553.5 | End Depth (TVD) (ftGRD) 8,839.8 | Dens Last Mud (lb/gal) 10.20 | Rig H & P, 497 | |

Operations Summary

TIH F/ 9,400 MD T/ 9,670' MD. Wash and Ream F/ 9,670' T/ 10,510' wob 6-10 rpm 80 pp 1250 spm 100 gpm 383 diff 25-50 ROP 10-80' FPH.

Remarks

Rig (H&P 497) & Well Progress:

35.85 days on location, 12.91 days since rig accepted on 6/22/2013 @ 15:30, 12.64 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 9%

Well Plan: PTB: 10,523' INC: 92.3, AZM: 181.5', TVD: 8870.55', A/B: 10.0' Below, L/R: 6.0' Left Per Plan # 4

No corrosion ring installed, (0 cum Hrs): 0 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|-----------------|---------------|--|
| 7/20/2013 06:00 | 7/20/2013 10:00 | 4 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and ream F/ 9670 T/ 9,750 Wob 6-8 rpm 80 pp 1250 spm 100 gpm 383 diff 25-50 rop 50-80' FPH. Back ream each stand. Note: Wash and Ream due to under gauge hole. Max Rop 80 ft. per hr due to differential pressure. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|-----------------|---------------|---|
| 7/20/2013 10:00 | 7/20/2013 14:00 | 4 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and ream F/ 9750 T/ 9,900 Wob 6-8 rpm 80 pp 1350 spm 100 gpm 383 diff 25-50 rop 50-100' FPH. Back ream each stand. Note: Wash and Ream due to under gauge hole. Max Rop 80 ft. per hr due to differential pressure. |
| 7/20/2013 14:00 | 7/20/2013 15:00 | 1 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and ream F/ 9,900' T/ 9,975' Wob 6-8 rpm 80 pp 1,350-1,400 spm 100 gpm 383 diff 25-50 rop 50-100' FPH. Back ream each stand Trying to increase pump strokes, each time we do it acts like we are packing off or over pumping. Note: Wash and Ream due to under gauge hole. Max Rop 100 ft. per hr due to differential pressure. |
| 7/20/2013 15:00 | 7/20/2013 18:00 | 3 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and ream F/ 9,975' T/ 10,144' Wob 6-8 rpm 80 pp 1,350-1,400 spm 100 gpm 383 diff 90-125 rop 50-100' FPH. Back ream each stand Note: Wash and Ream due to under gauge hole. Max Rop 100 ft. per hr due to differential pressure. |
| 7/20/2013 18:00 | 7/21/2013 00:00 | 6 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and Ream F/ 10,144' MD T/ 10,370' MD' Wob 6-8 rpm 80 pp 1,350-1,400 spm 100 gpm 383 diff 90-125 rop 50-100' FPH. Back Ream Each Stand. Note: Wash and Ream due to under gauge hole. Max Rop 100 ft. per hr due to differential pressure. |
| 7/21/2013 00:00 | 7/21/2013 03:00 | 3 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and Ream F/ 10,370' MD T/ 10,407' MD' Wob 6-8, rpm 80, pp 1,350-1,400, spm 80, gpm 383, diff 90-125, rop 10-25' FPH. Back Ream Each Stand. Note: Wash and Ream due to under gauge hole. Max Rop 25 ft. per hr due to differential pressure. |
| 7/21/2013 03:00 | 7/21/2013 06:00 | 3 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and Ream F/ 10,407' MD T/ 10,510' MD' Wob 6-8, rpm 80, pp 1,350-1,400, spm 80, gpm 383, diff 90-125 rop 20-40' FPH. Back Ream Each Stand. Note: Wash and Ream due to under gauge hole. Max Rop 45 ft. per hr due to differential pressure. |

Report #: 15 Daily Operation: 7/21/2013 06:00 - 7/22/2013 06:00

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|-------------------------------|-------------------------------|-------------------------------|------------------------------------|---------------------------------|-------------------|----------------------|--|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 | |
| Days From Spud (days) 29 | Days on Location (days) 14 | End Depth (ftGRD) 10,624.5 | End Depth (TVD) (ftGRD) 8,832.7 | Dens Last Mud (lb/gal) 10.20 | Rig H & P, 497 | | |

Operations Summary

Wash and Ream F/10,510 T/ 10,580. Slide and Rotate to build through lime in lateral F/ 10,580' MD T/ 10,651' MD, Trip out of Hole, Change Out BHA, Trip in the Hole T/ 2,500' MD

Remarks

Rig (H&P 497) & Well Progress:

36.85 days on location, 13.91 days since rig accepted on 6/22/2013 @ 15:30, 13.64 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 15%

Well Plan: PTB: 10,651' INC: 96.3, AZM: 181.8', TVD: 8859.88', A/B: 3.0' Below, L/R: 5.0' Left Per Plan # 4

No corrosion ring installed, (0 cum Hrs): 0 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|---------------|--|
| 7/21/2013 06:00 | 7/21/2013 09:00 | 3 | PROD-W&R | WASH & REAM | WASH_REAM | Wash and Ream F/ 10,510' T/10,580' wob 6-8 rpm 80 pp 1350 spm 100 gpm 383 diff 25-50. Wash and Ream due to hole gauge. Full returns no losses |
| 7/21/2013 09:00 | 7/21/2013 12:30 | 3.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 20' @ 5 ft/hr: 55k WOB, 110 spm, 421 gpm, 117 MMTR RPM, 100 psi Diff, 1950 psi SPP, 1.1k TQ, 0HS GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.2 Vis 62 |
| 7/21/2013 12:30 | 7/21/2013 15:30 | 3 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 38' @ 13 ft/hr: 45k WOB, 50 TDS RPM, 110 spm, 421 gpm, 117 MMTR RPM, 175 psi Diff, 2010 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.2 Vis 62 Notes: Check shot 10,615' MD survey depth 10,565' inc 93.8 AZM 181.87 |
| 7/21/2013 15:30 | 7/21/2013 17:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 13' @ 8 ft/hr: 50k WOB, 50 TDS RPM, 100 spm, 383 gpm, 107 MMTR RPM, 175 psi Diff, 1800 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.2 Vis 62 Well Plan: PTB: 10,651' INC: 96.3, AZM: 181.8', TVD: 8859.88', A/B: 3.0' Below, L/R: 5.0' Left Per Plan # 4 |
| 7/21/2013 17:00 | 7/21/2013 18:30 | 1.5 | PROD-CIRC | CIRCULATE | CIRC | Circulate 30 bbl's weighted sweeps out of hole: 1,850 psi SPP, 100 spm, 383 gpm, w/ motor on HS and Reciprocating drill pipe 90' |
| 7/21/2013 18:30 | 7/21/2013 21:30 | 3 | PROD-CIRC | CIRCULATE | CIRC | Pump Out Of Hole with no rotation F/10,651' MD T/9,575' MD. W/100 spm, 383 gpm, 1750 psi SPP, 50 RPM. |
| 7/21/2013 21:30 | 7/22/2013 02:30 | 5 | PROD-TRIP BHA | TRIP FOR BHA | TRIP BHA | TOOH F/ 9,575' MD - T/BHA to change out bit, mud motor, and MWD tool. Circulating hole on trip tank - hole taking proper fill |
| 7/22/2013 02:30 | 7/22/2013 03:30 | 1 | PROD-TRIP BHA | TRIP FOR BHA | TRIP BHA | Pull out MWD, drain motor, and lay down motor. Break of bit. |
| 7/22/2013 03:30 | 7/22/2013 04:00 | 0.5 | PROD-TRIP | TRIP | TRIP | Pull Wear Bushing - No Visible Wear. PNR personnel verified locking pins were retracted all the way and packing nuts remained tight as per procedure. Reinstalled Wear Bushing and verified locking pins were ran in all the way packing nuts where tight. |
| 7/22/2013 04:00 | 7/22/2013 05:00 | 1 | PROD-TRIP BHA | TRIP FOR BHA | TRIP BHA | Picked up 7/8 lobe, 6.4 stage motor with fixed housing set @ 1.83° (rev/gal= 0.28). Scribed BHA. Set MWD in place, and confirm good seat. Shallow test motor & MWD. Good Test. Make up 8-1/2" Hughes T505X, dressed with 5/22's (1.856 TFA). |
| 7/22/2013 05:00 | 7/22/2013 06:00 | 1 | PROD-TRIP BHA | TRIP FOR BHA | TRIP BHA | TIH with Production BHA #6 T/ 2,500' MD. Filling pipe every 30 stands. Hole displacing correctly, and 22 - 24% flow showing in each stand ran. |

Report #: 16 Daily Operation: 7/22/2013 06:00 - 7/23/2013 06:00

| | | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|--|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 30 | 15 | 11,170.5 | 8,806.8 | 10.30 | H & P, 497 | | |

Operations Summary

TIH F/ 2,500 T/ 8,059, Slip and Cut Drill Line, TIH F/8,059' T/9860', Wash to Bottom F/9,860' T/10,651'. Rotate and Slide F/ 10,651' T/ 11,197'

Remarks

Rig (H&P 497) & Well Progress:

37.85 days on location, 14.91 days since rig accepted on 6/22/2013 @ 15:30, 14.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 31%

Well Plan: PTB: 11,092' INC: 91.60, AZM: 180.10', TVD: 8830.60', A/B: 10.0' High, L/R: 8.0' Left Per Plan # 4

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|---------------|--|
| 7/22/2013 06:00 | 7/22/2013 09:30 | 3.5 | PROD-TRIP | TRIP | TRIP | Trip in hole F/ 2,500' T/ 8,110 breaking circulation every 20 stands (2,000') 1,500 psi SPP 100 spm 383 gpm. |
| 7/22/2013 09:30 | 7/22/2013 11:00 | 1.5 | PLAN | DRLG | CUTDL | Slip and cut 80' of drilling line. Reset and calibrate crown-o-matic and KEMS. |
| 7/22/2013 11:00 | 7/22/2013 12:30 | 1.5 | PROD-TRIP | TRIP | TRIP | TIH F/ 8,110 T/ 9,749'. Tagged up in tight hole @ 9,760, pull back up to break at 9,749 and make up top drive to wash down. |
| 7/22/2013 12:30 | 7/22/2013 15:00 | 2.5 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and Ream F/ 9,749' T/ 9,860' 2,275 psi SPP 130 spm rpm 50 . Note: We had to start washing down with 90 spm @ 344 gpm in order not cause pack off. After washing the stand down we brought pump strokes up gradually until we reached drilling stroke of 130 spm @ 497 gpm's, raising TDS rpm's gradually up to 90 creating turbulence in the lateral section @ 90°. We have not reached the point where we had the target change @ 10,239'. As hole unloaded we were seeing large cuttings (Quarter to half dollar size) loading up shakers for approximately 5 minutes each time. The hole unloaded like this two times and we were able to maintain strokes of 130 and 90 rpm's. |
| 7/22/2013 15:00 | 7/22/2013 17:00 | 2 | PILOT-W&R | WASH & REAM | WASH_R EAM | Wash and Ream in hole F/ 9,860' T/ 10,651', 2,350 psi SPP 130 spm rpm 50 |
| 7/22/2013 17:00 | 7/22/2013 19:30 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 60' @ 24 ft/hr: 15k WOB, 100 TDS RPM, 110 spm, 421 gpm, 117 MMTR RPM, 250 psi Diff, 2250 psi SPP, 4k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.2 Vis 62 Connection @ 10711' MD. Survey @ 10660' MD: 96.7° Inc, 181.6° Az. Slide Drill next stand Note: As we started drilling we were starting to see pressure spikes causing us to drop strokes from 130 down to 110-115. |
| 7/22/2013 19:30 | 7/22/2013 20:30 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 17' @ 17 ft/hr: 20k WOB, 110 spm, 421 gpm, 117 MMTR RPM, 300 psi Diff, 2300 psi SPP, 1k TQ, 180R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.2 Vis 80 |
| 7/22/2013 20:30 | 7/22/2013 22:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 87' @ 58 ft/hr: 20k WOB, 100 TDS RPM, 110 spm, 421 gpm, 117 MMTR RPM, 400 psi Diff, 2400 psi SPP, 7k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.2 Vis 80 Connection @ 10808' MD. Survey @ 10755' MD: 94.7° Inc, 181.2° Az. Slide Drill next stand |
| 7/22/2013 22:00 | 7/22/2013 23:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 10' @ 10 ft/hr: 22k WOB, 110 spm, 421 gpm, 117 MMTR RPM, 150 psi Diff, 2150 psi SPP, 0k TQ, 180 GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.2 Vis 83 |
| 7/22/2013 23:00 | 7/23/2013 00:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 85' @ 85 ft/hr: 20k WOB, 100 TDS RPM, 110 spm, 421 gpm, 117 MMTR RPM, 350 psi Diff, 2350 psi SPP, 10k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.2 Vis 78 Connection @ 10901' MD. Survey @ 10850' MD: 93.9° Inc, 181.2° Az. Slide Drill next stand |
| 7/23/2013 00:00 | 7/23/2013 01:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 15' @ 15 ft/hr: 25k WOB, 110 spm, 421 gpm, 117 MMTR RPM, 250 psi Diff, 2250 psi SPP, 2k TQ, 150L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.3 Vis 77 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|---------------|--|
| 7/23/2013 01:00 | 7/23/2013 02:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 78' @ 78 ft/hr: 20k WOB, 100 TDS RPM, 110 spm, 421 gpm, 117 MMTR RPM, 450 psi Diff, 2450 psi SPP, 10k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.3 Vis 70 Connection @ 10091' MD. Survey @ 10944' MD: 92.8° Inc, 179.8° Az. Slide Drill next stand |
| 7/23/2013 02:00 | 7/23/2013 03:30 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 17' @ 11 ft/hr: 30k WOB, 110 spm, 421 gpm, 117 MMTR RPM, 200 psi Diff, 2200 psi SPP, 1k TQ, 170R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.3 Vis 78 |
| 7/23/2013 03:30 | 7/23/2013 04:30 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 83' @ 83 ft/hr: 20k WOB, 100 TDS RPM, 110 spm, 421 gpm, 117 MMTR RPM, 450 psi Diff, 2450 psi SPP, 9k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.3 Vis 73 |
| 7/23/2013 04:30 | 7/23/2013 05:15 | 0.75 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 18' @ 24 ft/hr: 30k WOB, 110 spm, 421 gpm, 117 MMTR RPM, 300 psi Diff, 2300 psi SPP, 1k TQ, 160R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.3 Vis 71 |
| 7/23/2013 05:15 | 7/23/2013 06:00 | 0.75 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 77' @ 102 ft/hr: 22k WOB, 100 TDS RPM, 110 spm, 421 gpm, 117 MMTR RPM, 500 psi Diff, 2500 psi SPP, 9k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. MW 10.3 Vis 69 |

Report #: 17 Daily Operation: 7/23/2013 06:00 - 7/24/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|------------------------------------|---------------------------------|-------------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) 31 | Days on Location (days) 16 | End Depth (ftGRD) 12,178.5 | End Depth (TVD) (ftGRD) 8,805.6 | Dens Last Mud (lb/gal) 10.30 | Rig H & P, 497 | |

Operations Summary

Rotate and Slide lateral section F/ 11,196' T/ 12,205'

Remarks

Rig (H&P 497) & Well Progress:

38.85 days on location, 15.91 days since rig accepted on 6/22/2013 @ 15:30, 15.64 days since spud

Rig move days: 5.00

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 31%

Well Plan: PTB: 12,135' INC: 86.00, AZM: 182.20', TVD: 8835.03', A/B: 5.0' Above, L/R: 13.0' Left Per Plan # 4

No corrosion ring installed, (0 cum Hrs): 0 drum inhibitor added

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|---------------------|---------------|--|
| 7/23/2013 06:00 | 7/23/2013 07:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | "Slide Drill 8-1/2"" Lateral 14' @ 14 ft/hr: 49k WOB, 120 spm, 459 gpm, 128 MMTR RPM, 100 psi Diff, 2200 psi SPP, 0.1k TQ, 20R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 62 Connection @ 11146' MD. Survey @ 11134' MD: 88.6° Inc, 179.2° Az. Slide Drill next stand Notes: Staging pumps up for hole cleaning. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|---------------|--|
| 7/23/2013 07:00 | 7/23/2013 09:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 165' @ 82 ft/hr: 30k WOB, 100 TDS RPM, 120 spm, 459 gpm, 128 MMTR RPM, 500 psi Diff, 2750 psi SPP, 11k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 62 Connection @ 11294' MD. Survey @ 11229' MD: 90.2° Inc, 179.4° Az. Slide Drill next stand" |
| 7/23/2013 09:00 | 7/23/2013 11:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | "Slide Drill 8-1/2"" Lateral 24' @ 12 ft/hr: 40k WOB, 120 spm, 459 gpm, 128 MMTR RPM, 100 psi Diff, 2250 psi SPP, 1.1k TQ, 100R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 62 Connection @ 11388' MD. Survey @ 11323' MD: 91° Inc, 179.2° Az. Slide Drill next stand" |
| 7/23/2013 11:00 | 7/23/2013 12:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 107' @ 107 ft/hr: 30k WOB, 100 TDS RPM, 130 spm, 497 gpm, 139 MMTR RPM, 500 psi Diff, 3000 psi SPP, 11k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 63 Connection @ 11483' MD. Survey @ 11418' MD: 91.3° Inc, 181.3° Az. Slide Drill next stand Notes: PTB: Depth 11,471 INC 91.3 AZM 181.3" |
| 7/23/2013 12:00 | 7/23/2013 13:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | "Slide Drill 8-1/2"" Lateral 15' @ 15 ft/hr: 45k WOB, 130 spm, 497 gpm, 139 MMTR RPM, 200 psi Diff, 3000 psi SPP, 1.1k TQ, 100R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 65 Connection @ 11578' MD. Survey @ 11513' MD: 90.2° Inc, 180.7° Az. Slide Drill next stand Connection @ 11673' MD. Survey @ 11608' MD: 92.7° Inc, 182.2° Az. Slide Drill next stand" |
| 7/23/2013 13:00 | 7/23/2013 16:00 | 3 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 234' @ 78 ft/hr: 40k WOB, 100 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 500 psi Diff, 3300 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 66 Connection @ 11756' MD. Survey @ 11703' MD: 92.8° Inc, 181.4° Az. Slide Drill next stand" |
| 7/23/2013 16:00 | 7/23/2013 17:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 20' @ 20 ft/hr: 50k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 150 psi Diff, 2800 psi SPP, 1k TQ, 150R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 66 |
| 7/23/2013 17:00 | 7/23/2013 18:30 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 100' @ 67 ft/hr: 30k WOB, 100 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 500 psi Diff, 3300 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 66 |
| 7/23/2013 18:30 | 7/23/2013 19:00 | 0.5 | PROD-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Service Top Drive, Draw Works, and Check Brakes. |
| 7/23/2013 19:00 | 7/23/2013 19:15 | 0.25 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 10' @ 40 ft/hr: 30k WOB, 100 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 500 psi Diff, 3300 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 57 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|---------------|---|
| 7/23/2013 19:15 | 7/23/2013 20:00 | 0.75 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 20' @ 26 ft/hr: 50k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 2950 psi SPP, 2k TQ, 120R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 58 |
| 7/23/2013 20:00 | 7/23/2013 21:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 74' @ 74 ft/hr: 35k WOB, 100 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 500 psi Diff, 3150 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 57 Connection @ 11945' MD. Survey @ 11892' MD: 87.4° Inc, 182.2° Az. Slide Drill next stand |
| 7/23/2013 21:00 | 7/23/2013 22:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 12' @ 12 ft/hr: 50k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 250 psi Diff, 2900 psi SPP, 2.1k TQ, 30R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 60 |
| 7/23/2013 22:00 | 7/24/2013 00:30 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 119' @ 47 ft/hr: 40k WOB, 100 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 550 psi Diff, 3200 psi SPP, 16k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 58 Connection @ 12039' MD. Survey @ 11987' MD: 87.3° Inc, 182.2° Az. Slide Drill next stand |
| 7/24/2013 00:30 | 7/24/2013 02:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 21' @ 14 ft/hr: 50k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 250 psi Diff, 2900 psi SPP, 2.1k TQ, 0R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 61 |
| 7/24/2013 02:00 | 7/24/2013 03:30 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 57' @ 38 ft/hr: 40k WOB, 100 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 550 psi Diff, 3250 psi SPP, 16k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 55 Note: Torque starting to come up and pressure. Working pipe 30' and pump sweep. ROP dropping off. Contacted Jess Arnold and the decision was made to break slides down to 2 times a stand instead of making one long slide to see if this will relieve torque and pressure. |
| 7/24/2013 03:30 | 7/24/2013 05:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 16' @ 10 ft/hr: 40k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 250 psi Diff, 2900 psi SPP, 0.2k TQ, 0R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 59 |
| 7/24/2013 05:00 | 7/24/2013 05:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 20' @ 40 ft/hr: 35k WOB, 100 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3100 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 59 |
| 7/24/2013 05:30 | 7/24/2013 06:00 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 5' @ 10 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 250 psi Diff, 2900 psi SPP, 0.5k TQ, 0R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 59 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 18 Daily Operation: 7/24/2013 06:00 - 7/25/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 32 | 17 | 12,276.5 | 8,806.7 | 10.40 | H & P, 497 | |

Operations Summary

Slide and Rotate lateral section F/ 12,203' T/ 12,276'. Circulate weighted sweep out of hole and TOH for Bit. Change out motor, bit, and MWD. TIH T/ 11,681, Wash and Ream F/11,681'-T/12,276' ,Drill Lateral Section T/12,303' MD

Remarks

Rig (H&P 497) & Well Progress:

39.85 days on location, 16.91 days since rig accepted on 6/22/2013 @ 15:30, 16.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 32%

Well Plan: PTB: 12,230' INC: 88.2, AZM: 182.10', TVD: 8836.21', A/B: 4.0' Above, L/R: 13.0' Left Per Plan # 4

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|---------------|--|
| 7/24/2013 06:00 | 7/24/2013 07:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | "Slide Drill 8-1/2"" Lateral 7' @ 7 ft/hr: 50k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 3000 psi SPP, 0.5k TQ, 0R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 59 Connection @ 12147' MD. Survey @ 12082' MD: 85.9° Inc, 182.2° Az. Rotate Drill next stand Notes: PTB 12,135 INC: 85.9 AZM: 182.2 TVD 8,835 8' Above 14.0 Left of plan 4 Line." |
| 7/24/2013 07:00 | 7/24/2013 09:30 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2"" Lateral 59' @ 23 ft/hr: 50k WOB, 60 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 350 psi Diff, 3050 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 61 Notes: Pump weighted sweep." |
| 7/24/2013 09:30 | 7/24/2013 11:30 | 2 | PROD-CIRC | CIRCULATE | CIRC | Pump and circulated weighted sweep out of hole. When sweep reached surface the hole unloaded approximately 1.5 bbl's of cuttings and continued to circulate cuttings out of hole after sweep was out. Circulated 30 minutes more until shakers were clean. Attempt to drill 5 more feet to check and make sure we didn't have a dirty hole causing the slow ROP. No improvement. |
| 7/24/2013 11:30 | 7/24/2013 12:30 | 1 | PROD-TRIP | TRIP | TRIP | TOH for bit wet F/ 12,276' T/ 9950'. Pump slug. TOH speed 50' per minute w/ 20K over pull Note: Hole taking prper fill strokes and trip sheet being filled out. |
| 7/24/2013 12:30 | 7/24/2013 14:00 | 1.5 | PROD-TRIP | TRIP | TRIP | TOH F/ 9,950' T/ 7,999' @ 50' per minute with 15K over pull. Note: Proper fill strokes observed. |
| 7/24/2013 14:00 | 7/24/2013 18:00 | 4 | PROD-TRIP | TRIP | TRIP | TOH F/ 7,999 T/ BHA @ 300' per minute with no drag, inside casing. Note: Proper fill strokes observed |
| 7/24/2013 18:00 | 7/24/2013 19:30 | 1.5 | PLAN | EQUIP | BHA | Lay Down MWD tool, bit and motor. Picked up 7/8 lobe, 6.4 stage motor with fixed housing set @ 1.83° (rev/gal= 0.28). Note: Bit DBR cutters section had a 1/2" groove all the way around the bit. Appeared we had a couple of teeth come out and the bit ran on top of the teeth. Bit was a 1/4" out of gauge with uneven wear. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|-------------|---|
| 7/24/2013 19:30 | 7/24/2013 20:30 | 1 | PLAN | EQUIP | BHA | Pull wear bushing, wash out well head, clean up wear bushing and re-install. Company man present while backing pins out and tightening up. Clean up OBM, and organized rig floor to avoid slip/trip hazards prior to TIH with BHA #6. |
| 7/24/2013 20:30 | 7/24/2013 21:30 | 1 | PROD-TRIP | TRIP | TRIP | Scribed BHA. Set MWD in place, and confirm good seat. Shallow test motor & MWD. Good Test. Make up 8-1/2" Hughes DP606X, dressed with 6/20s (1.84 TFA). |
| 7/24/2013 21:30 | 7/24/2013 22:00 | 0.5 | PROD-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Service Top Drive, Drawworks, and slide armadillo skin up kelly hose to keep from rubbing a hole it while tripping in. |
| 7/24/2013 22:00 | 7/25/2013 02:00 | 4 | PROD-TRIP | TRIP | TRIP | TIH with BHA #6. Filling pipe every 20 stands. Hole displacing correctly, and 22 - 25% flow showing in each stand ran. Taking returns into trip tanks to monitor proper displacement. |
| 7/25/2013 02:00 | 7/25/2013 02:30 | 0.5 | PROD-TRIP | TRIP | TRIP | TIH w/BHA #6 to casing shoe. Position bit outside shoe. DD oriented tool face up. Filled pipe.. Note: Proper fill strokes observed |
| 7/25/2013 02:30 | 7/25/2013 04:30 | 2 | PROD-TRIP | TRIP | TRIP | TIH F/8,281' MD T/11,681' MD. Hole displacing correctly, and 22 - 25% flow showing in each stand ran. Taking returns into trip tanks to monitor proper displacement. Note: No Excess weight taken. Hole slick. |
| 7/25/2013 04:30 | 7/25/2013 05:30 | 1 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and Ream F/ 11,681' T/ 12,276', 3,100 psi SPP 140 spm rpm 60. Note: Hole Slick, No excess bit weight taken. Proper strokes observed during circulation. |
| 7/25/2013 05:30 | 7/25/2013 06:00 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 27' @ 54 ft/hr: 35k WOB, 60 TDS RPM, 140 spm, 536 gpm, 80 MMTR RPM, 400 psi Diff, 3400 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 61 |

Report #: 19 Daily Operation: 7/25/2013 06:00 - 7/26/2013 06:00

| | | |
|-------------------------------|-------------------------|----------------------|
| Job Category ORIG DRILLING | Primary Job Type ODR | AFE Number 027152 |
|-------------------------------|-------------------------|----------------------|

| | | | | | |
|-----------------------------|-------------------------------|-------------------------------|------------------------------------|---------------------------------|-------------------|
| Days From Spud (days) 33 | Days on Location (days) 18 | End Depth (ftGRD) 13,843.5 | End Depth (TVD) (ftGRD) 8,797.1 | Dens Last Mud (lb/gal) 10.30 | Rig H & P, 497 |
|-----------------------------|-------------------------------|-------------------------------|------------------------------------|---------------------------------|-------------------|

Operations Summary

Rotate and Slide lateral section F/ 12,303' T/ 13,870'

Remarks

Rig (H&P 497) & Well Progress:

40.85 days on location, 17.91 days since rig accepted on 6/22/2013 @ 15:30, 17.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 53%

Well Plan: PTB: 13,746' INC: 91.40, AZM: 181.0', TVD: 8836.21', A/B: 10.0' Above, L/R: 19.0' Right Per Plan # 4

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|-------------------|--|
| 7/25/2013 06:00 | 7/25/2013 09:00 | 3 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 306' @ 102 ft/hr: 25k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 550 psi Diff, 3400 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 64</p> <p>Connection @ 12419' MD. Survey @ 12366' MD: 90° Inc, 181.8° Az. Rotate Drill next stand Connection @ 12514' MD. Survey @ 12461' MD: 89.5° Inc, 181.8° Az. Rotate Drill next stand Connection @ 12609' MD. Survey @ 12556' MD: 89.3° Inc, 183.7° Az. Slide Drill next stand</p> <p>Notes: Getting good clean cuttings</p> |
| 7/25/2013 09:00 | 7/25/2013 10:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 15' @ 15 ft/hr: 30k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 150 psi Diff, 3050 psi SPP, 1.1k TQ, 70L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 64</p> <p>Notes: Getting good clean cuttings</p> |
| 7/25/2013 10:00 | 7/25/2013 11:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 80' @ 80 ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3350 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 64</p> <p>Connection @ 12704' MD. Survey @ 12651' MD: 90.7° Inc, 184.8° Az. Slide Drill next stand</p> |
| 7/25/2013 11:00 | 7/25/2013 11:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 15' @ 30 ft/hr: 30k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 150 psi Diff, 3100 psi SPP, 1.1k TQ, 90L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 64</p> |
| 7/25/2013 11:30 | 7/25/2013 14:00 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 269' @ 107 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 500 psi Diff, 3350 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 64</p> <p>Connection @ 12798' MD. Survey @ 12745' MD: 90.9° Inc, 182.2° Az. Slide Drill next stand</p> |
| 7/25/2013 14:00 | 7/25/2013 14:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 15' @ 30 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 250 psi Diff, 3000 psi SPP, 1.1k TQ, 60R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 64</p> |
| 7/25/2013 14:30 | 7/25/2013 15:00 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 79' @ 158 ft/hr: 35k WOB, 60 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 550 psi Diff, 3400 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 64</p> <p>Connection @ 12988' MD. Survey @ 12935' MD: 89.3° Inc, 179.5° Az. Rotate Drill next stand</p> <p>Notes: Pump weighted sweep.</p> |
| 7/25/2013 15:00 | 7/25/2013 15:30 | 0.5 | PROD-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Service TDS, crown and check fall protection devices |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|-------------------|---|
| 7/25/2013 15:30 | 7/25/2013 18:00 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 190' @ 76 ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 500 psi Diff, 3350 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 65</p> <p>Connection @ 13272' MD. Survey @ 13,219' MD: 90.2° Inc, 184.2° Az. Slide Drill next stand</p> <p>Notes: 2.0' above line and 8.0' right</p> |
| 7/25/2013 18:00 | 7/25/2013 18:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 10' @ 20 ft/hr: 22k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 380 psi Diff, 2995 psi SPP, 1k TQ, 90L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54</p> <p>Connection @ 13272' MD. Survey @ 13219' MD: 90.2° Inc, 184.2° Az. Slide Drill next stand</p> <p>Notes: 2.0' above line and 8.0' right</p> |
| 7/25/2013 18:30 | 7/25/2013 20:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 179' @ 119 ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 380 psi Diff, 3522 psi SPP, 16k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54</p> |
| 7/25/2013 20:00 | 7/25/2013 21:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 12' @ 12 ft/hr: 22k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 380 psi Diff, 2933 psi SPP, 1k TQ, 110L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 52</p> <p>Connection @ 13,470" MD. Survey @ 13,314" MD: 90.7° Inc, 183.1° Az. Rotate Drill next stand</p> <p>Notes: 3.0' above line and 14.0' right</p> |
| 7/25/2013 21:00 | 7/25/2013 22:30 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 92' @ 61 ft/hr: 25k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 398 psi Diff, 3309 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54</p> |
| 7/25/2013 22:30 | 7/26/2013 00:30 | 2 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 16' @ 8 ft/hr: 22k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 380 psi Diff, 2933 psi SPP, 1k TQ, 120L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 57</p> <p>Connection @ 13557' MD. Survey @ 13504' MD: 91.30° Inc, 183° Az. Rotate Drill next stand</p> <p>Notes: 5.0' above line and 18.0' right</p> |
| 7/26/2013 00:30 | 7/26/2013 03:00 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 164' @ 65 ft/hr: 25k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 398 psi Diff, 3309 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 52</p> <p>Slide Drill next stand</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|-------------------|---|
| 7/26/2013 03:00 | 7/26/2013 04:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | Slide Drill 8-1/2" Lateral 15' @ 15 ft/hr: 22k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 2932 psi SPP, 1k TQ, 180 GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54 Connection @ 13746' MD. Survey @ 13693' MD: 91.4° Inc, 181° Az. Rotate Drill next stand Notes: 8.0' above line and 19.0' right |
| 7/26/2013 04:00 | 7/26/2013 06:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | Slide Drill 8-1/2" Lateral 110' @ 55 ft/hr: 30k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 358 psi Diff, 3346 psi SPP, 12k TQ, 180 GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54 |

Report #: 20 Daily Operation: 7/26/2013 06:00 - 7/27/2013 06:00

| | | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|-------------------------|------------|----------------------|--|
| Job Category ORIG DRILLING | | | | Primary Job Type ODR | | AFE Number 027152 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 34 | 19 | 15,503.5 | 8,808.9 | 10.30 | H & P, 497 | | |

Operations Summary

Rotate and Slide Lateral section F/ 13,870' T/ 15,530'

Remarks

Rig (H&P 497) & Well Progress:

41.85 days on location, 18.91 days since rig accepted on 6/22/2013 @ 15:30, 18.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 54%

Well Plan: PTB: 15,453' INC: 89.40, AZM: 181.20', TVD: 8840.90', A/B: On Line, L/R: 2' Right Per Plan # 4

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|-------------------|--|
| 7/26/2013 06:00 | 7/26/2013 06:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | "Slide Drill 8-1/2"" Lateral 5' @ 10 ft/hr: 40k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 200 psi Diff, 3000 psi SPP, 1.1k TQ, 180 GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.35 Vis 54 Notes: 8.0' above line and 19.0' right" |
| 7/26/2013 06:30 | 7/26/2013 08:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | Rotate Drill 8-1/2" Lateral 82' @ 54 ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3250 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.35 Vis 54 Connection @ 13936' MD. Survey @ 13883' MD: 90.3° Inc, 180.8° Az. Slide Drill next stand Notes: 11' above right 18' |
| 7/26/2013 08:00 | 7/26/2013 09:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | Slide Drill 8-1/2" Lateral 15' @ 15 ft/hr: 40k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 200 psi Diff, 3000 psi SPP, 1.1k TQ, 150L GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.35 Vis 54 Notes: 11' above right 18' |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|-------------------|--|
| 7/26/2013 09:00 | 7/26/2013 12:00 | 3 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 239' @ 79 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3350 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54</p> <p>Connection @ 14031' MD. Survey @ 13978' MD: 88.4° Inc, 179.6° Az. Rotate Drill next stand</p> <p>Connection @ 14125' MD. Survey @ 14072' MD: 88.5° Inc, 179.3° Az. Rotate Drill next stand</p> <p>Notes: 7' Above 13 Right of plan line</p> |
| 7/26/2013 12:00 | 7/26/2013 13:30 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 103' @ 68 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3350 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54</p> <p>Connection @ 14220' MD. Survey @ 14167' MD: 88.9° Inc, 180.3° Az. Slide Drill next stand</p> <p>Notes: 5' Above 11' right of plan line</p> |
| 7/26/2013 13:30 | 7/26/2013 14:30 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 13' @ 13 ft/hr: 40k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 225 psi Diff, 3150 psi SPP, 1.1k TQ, 30R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54</p> |
| 7/26/2013 14:30 | 7/26/2013 15:00 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 82' @ 164 ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 3250 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54</p> <p>Connection @ 14315' MD. Survey @ 14262' MD: 88.2° Inc, 179.1° Az. Rotate Drill next stand</p> <p>Notes: 3' Above 8' right of plan line</p> |
| 7/26/2013 15:00 | 7/26/2013 15:30 | 0.5 | PROD-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Service top drive, cat walk and HPU |
| 7/26/2013 15:30 | 7/26/2013 18:00 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 321' @ 160 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3425 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.35 Vis 65</p> <p>Connection @ 14315' MD. Survey @ 14262' MD: 88.2° Inc, 179.1° Az. Rotate Drill next stand</p> <p>Notes: 3' Above 8' right of plan line</p> |
| 7/26/2013 18:00 | 7/26/2013 18:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 12' @ 24 ft/hr: 35k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 345 psi Diff, 3324 psi SPP, 1k TQ, 50R GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 54</p> <p>Connection @ 14600' MD. Survey @ 14547' MD: 89.1° Inc, 179.3° Az. Rotate Drill next stand</p> <p>Notes: 0' above line and 0' right</p> |
| 7/26/2013 18:30 | 7/26/2013 21:30 | 3 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 252' @ 84 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 358 psi Diff, 3369 psi SPP, 11k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 58</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|-----------------|---|
| 7/26/2013 21:30 | 7/27/2013 00:30 | 3 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | Rotate Drill 8-1/2" Lateral 284' @ 94 ft/hr: 32k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3369 psi SPP, 11k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 58 |
| 7/27/2013 00:30 | 7/27/2013 03:30 | 3 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | Rotate Drill 8-1/2" Lateral 258' @ 86 ft/hr: 32k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 405 psi Diff, 3648 psi SPP, 11k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 58 Connection @ 15453' MD. Survey @ 15400' MD: 89.4° Inc, 181.2° Az. Rotate Drill next stand Notes: On line, L/R: 2' left Closure distance to well # 1 @ 15,385' = 298.13' |
| 7/27/2013 03:30 | 7/27/2013 06:00 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | Rotate Drill 8-1/2" Lateral 104' @ 41 ft/hr: 34k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 224 psi Diff, 3470 psi SPP, 11k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 60 Note: At 15,530 closure distance to well #1 169.00' |

Report #: 21 Daily Operation: 7/27/2013 06:00 - 7/28/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 35 | 20 | 16,563.5 | 8,813.0 | 10.30 | H & P, 497 | |

Operations Summary

Rotate and Slide Lateral section F/ 15,530' T/ 16,590'

Remarks

Rig (H&P 497) & Well Progress:

42.85 days on location, 19.91 days since rig accepted on 6/22/2013 @ 15:30, 19.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 79.3%

Well Plan: PTB: 16,496' INC: 88.40, AZM: 178.60', TVD: 8840.90', A/B: 1' above, L/R: 18' Left Per Plan # 4

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|-------------------|--|
| 7/27/2013 06:00 | 7/27/2013 08:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | Rotate Drill 8-1/2" Lateral 130' @ 65 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 350 psi Diff, 3550 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.4 Vis 60 Connection @ 15643' MD. Survey @ 15590' MD: 92° Inc, 181.6° Az. Slide Drill next stand Notes: Proximity Report 128' Center Line |
| 7/27/2013 08:00 | 7/27/2013 09:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | Slide Drill 8-1/2" Lateral 15' @ 15 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 200 psi Diff, 3400 psi SPP, 1k TQ, 180 GTF. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.4 Vis 60 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|--------------------------|-------------------|--|
| 7/27/2013 09:00 | 7/27/2013 12:00 | 3 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 169' @ 56 ft/hr: 40k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 500 psi Diff, 3600 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.4 Vis 65</p> <p>Connection @ 15737' MD. Survey @ 15684' MD: 88.3° Inc, 179.6° Az. Rotate Drill next stand</p> <p>Notes: Proximity #1 104' from center - center</p> |
| 7/27/2013 12:00 | 7/27/2013 14:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 103' @ 51 ft/hr: 40k WOB, 60 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 450 psi Diff, 3600 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping weighted sweeps as needed. Backream as needed. MW 10.4 Vis 65</p> <p>Connection @ 15832' MD. Survey @ 15779' MD: 90.5° Inc, 181.1° Az. Rotate Drill next stand</p> <p>Connection @ 15927' MD. Survey @ 15874' MD: 92.7° Inc, 181.5° Az. Slide Drill next stand</p> <p>Notes: Proximity Report #1 232' from center - center 4' above and 3' left of plan #4 line.</p> |
| 7/27/2013 14:00 | 7/27/2013 14:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | <p>Slide Drill 8-1/2" Lateral 15' @ 30 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 200 psi Diff, 3400 psi SPP, 1.1k TQ, 180 GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 62</p> |
| 7/27/2013 14:30 | 7/27/2013 15:30 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 60' @ 60 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 400 psi Diff, 3550 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 62</p> <p>Connection @ 16022' MD. Survey @ 15969' MD: 89.8° Inc, 181.1° Az. Rotate Drill next stand</p> <p>Notes: Proximity #1 267' Center - Center 6' above and left 3' planned line #4</p> |
| 7/27/2013 15:30 | 7/27/2013 16:00 | 0.5 | PROD-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Rig service. |
| 7/27/2013 16:00 | 7/27/2013 18:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 126' @ 63 ft/hr: 35k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 400 psi Diff, 3550 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 62</p> <p>Connection @ 16117' MD. Survey @ 16064' MD: 90.3° Inc, 180.4° Az. Rotate Drill next stand</p> <p>Notes: 6' Above 4.0 Right</p> |
| 7/27/2013 18:00 | 7/27/2013 21:00 | 3 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 157' @ 52 ft/hr: 40k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 425 psi Diff, 3713 psi SPP, 15k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 56</p> |
| 7/27/2013 21:00 | 7/27/2013 22:30 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL- ROTATE | DRL LAT- ROT | <p>Rotate Drill 8-1/2" Lateral 96' @ 64 ft/hr: 40k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 284 psi Diff, 3756 psi SPP, 7k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 58</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|--------------------|----------------------|---------------|--|
| 7/27/2013 22:30 | 7/28/2013 00:30 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 10' @ 5 ft/hr: 40k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 127 psi Diff, 3433 psi SPP, 1k TQ, 90R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 60 Connection @ 16401' MD. Survey @ 16348' MD: 88.7° Inc, 178.7° Az. Rotate Drill next stand Notes: 3.0' Above 13.0' Left |
| 7/28/2013 00:30 | 7/28/2013 02:30 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 102' @ 51 ft/hr: 40k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 425 psi Diff, 3713 psi SPP, 12k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 60 |
| 7/28/2013 02:30 | 7/28/2013 04:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 12' @ 8 ft/hr: 40k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 127 psi Diff, 3433 psi SPP, 1k TQ, 90R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 62 Connection @ 16496' MD. Survey @ 16443' MD: 88.4° Inc, 178.6° Az. Rotate Drill next stand Notes: 1.0' Above 18.0' Left |
| 7/28/2013 04:00 | 7/28/2013 06:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 65' @ 32 ft/hr: 40k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 384 psi Diff, 3713 psi SPP, 16k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 62 |

Report #: 22 Daily Operation: 7/28/2013 06:00 - 7/29/2013 06:00

| | | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|--|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 36 | 21 | 16,593.5 | 8,813.3 | 10.30 | H & P, 497 | | |

Operations Summary

Slide drill F/ 16,590 T/ 16,615. Hole clean up cycle, Slide drill F/ 16,615' T/ 16,620'. Circulate and TOH for Bit and Motor and TIH. Lay down motor, bit and MWD tool and pick up new. TIH T/ 1,031, Slip and Cut 80' Drill Line. TIH T/ 12,574'

Remarks

Rig (H&P 497) & Well Progress:

43.85 days on location, 20.91 days since rig accepted on 6/22/2013 @ 15:30, 20.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 3.5 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 80.2%

Well Plan: PTB @ 16,496' MD - INC: 88.40°, AZM: 178.60°, TVD 8,840.90' (1' above, 18' Left Per Plan # 4)

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|--------------------|---------------------|---------------|--|
| 7/28/2013 06:00 | 7/28/2013 08:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 25' @ 12 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 150 psi Diff, 3400 psi SPP, 1.1k TQ, 70R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. Backream as needed. MW 10.3 Vis 57 Connection @ 16590' MD. Survey @ 16537' MD: 87.8° Inc, 178.9° Az. Slide Drill next stand Notes: 1.0' Above 18.0' Left |
| 7/28/2013 08:00 | 7/28/2013 10:00 | 2 | PROD-CIRC | CIRCULATE | CIRC | Pump weighted sweep and circulate out of hole while working pipe 90' @ 100 rpm's 3,300 psi SPP 140 spm TQ 5.2. Total circulating strokes 11,857 bottoms up. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------------------|-------------------------|-------------------|--|
| 7/28/2013 10:00 | 7/28/2013 11:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL- SLIDE | DRL LAT- SLIDE | Slide Drill 8-1/2" Lateral 5' @ 5 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 100 psi Diff, 3300 psi SPP, 1.1k TQ, 70R GTF. Full returns while circulating through pits. Pumping hi -vis sweeps as needed. Backream as needed. MW 10.3 Vis 57 Notes: Contacted Jess Arnold and informed him that after the clean up cycle the ROP had not improved. We attempted to rotate drill 3' and the rop max was 30' per hour with 300 differential. At this point it was decided we needed to trip for the bit. Called Annan Pascoe and let her know what we were needing to do and she agreed. |
| 7/28/2013 11:00 | 7/28/2013 12:00 | 1 | PROD-CIRC | CIRCULATE | CIRC | Circulate and prepare for bit trip |
| 7/28/2013 12:00 | 7/28/2013 13:00 | 1 | PROD-TRIP | TRIP | TRIP | TOH F/ 16,620 T/ 15,725 @ 75' per min max pull of 270K. Proper fill strokes observed. |
| 7/28/2013 13:00 | 7/28/2013 16:00 | 3 | PROD-TRIP | TRIP | TRIP | Pump slug and TOH F/ 15,725' T/ 8.015' @ 75' per minute max pull 257K Proper fill strokes observed. Pipe pulling slick. |
| 7/28/2013 16:00 | 7/28/2013 19:30 | 3.5 | PROD-TRIP | TRIP | TRIP | TOH F/ 8,105 T/99' BHA @ 250' per minute Proper fill strokes observed |
| 7/28/2013 19:30 | 7/28/2013 20:30 | 1 | PROD-TRIP | TRIP | TRIP | Drain Motor , break Bit, Lay out Mud Motor & MWD. |
| 7/28/2013 20:30 | 7/28/2013 22:00 | 1.5 | PROD-TRIP | TRIP | TRIP | Pick up & make up new Mud Motor & MWD. Scrib & Test Mud Motor. Make up Bit |
| 7/28/2013 22:00 | 7/28/2013 23:30 | 1.5 | PROD-TRIP | TRIP | TRIP | TIH F/ 99' T/ 1.031' takeing returns to trip tank. Proper circulating strokes observed |
| 7/28/2013 23:30 | 7/29/2013 01:00 | 1.5 | PROD-RIGSVC | RIG SERVICE PLANNED | RIG_SVC | Cut Drill Line, 80'. Two point calibration blocks |
| 7/29/2013 01:00 | 7/29/2013 03:30 | 2.5 | PROD-TRIP | TRIP | TRIP | Trip in the hole with DP F/1,031' T/ 8,340' filling every 20 stds. Taking returns to trip tank. Proper circulating strokes observed |
| 7/29/2013 03:30 | 7/29/2013 04:00 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Break circulation @ 8,340', high side motor |
| 7/29/2013 04:00 | 7/29/2013 06:00 | 2 | PROD-TRIP | TRIP | TRIP | Trip in the hole with DP F/8'340' T/ 12,574' filling every 20 stds Proper strokes observed |

Report #: 23 Daily Operation: 7/29/2013 06:00 - 7/30/2013 06:00

| | | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|------------|----------------------|--|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 37 | 22 | 17,361.5 | 8,803.1 | 10.30 | H & P, 497 | | |

Operations Summary

TIH F/ 12,554' T/ 16,078, Wsah and Ream F/ 16078' T/ 16,620'. Rotate and Slide F/ 16,620 T/ 17,388'

Remarks

Rig (H&P 497) & Well Progress:

44.85 days on location, 21.91 days since rig accepted on 6/22/2013 @ 15:30, 21.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 6 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 80.2%

Well Plan: PTB @ 17,349' MD - INC: 91.70°, AZM: 183.90°, TVD 8,835.17' (3' above, 13' Left Per Plan # 4)

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------|-----------------|---------------|---|
| 7/29/2013 06:00 | 7/29/2013 08:30 | 2.5 | PROD-TRIP | TRIP | TRIP | TIH F/ 12,554 T/ 16,078. Taking weight at 16,078', make up top drive, fill fill pipe and break circulation |
| 7/29/2013 08:30 | 7/29/2013 12:00 | 3.5 | PROD-W&R | WASH & REAM | WASH_R EAM | Wash and ream F/ 16,078' T/ 16,620. Wob 6-10 rpm 50 pp 3902 spm 140 gpm 536 diff 150-200 TQ 5-15. Set torque limit @ 15 for reaming back to bottom. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|--------------------|---|---------------|--|
| 7/29/2013 12:00 | 7/29/2013 13:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 10' @ 10 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 200 psi Diff, 3600 psi SPP, 1.1k TQ, 70R GTF. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 62 Notes: After washing and reaming back to bottom torque reduced down to 5, and PP dropped to 3,500 psi off bottom. |
| 7/29/2013 13:00 | 7/29/2013 14:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 74' @ 74 ft/hr: 25k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 3800 psi SPP, 13k TQ. Pump weighted sweeps as needed Connection @ 16685' MD. Survey @ 16632' MD: 89.9° Inc, 180.3° Az. Rotate Drill next stand |
| 7/29/2013 14:00 | 7/29/2013 14:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 10' @ 20 ft/hr: 25k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 300 psi Diff, 3800 psi SPP, 0.1k TQ, 70R GTF. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 56 |
| 7/29/2013 14:30 | 7/29/2013 17:00 | 2.5 | UNPLANNED | Rig Repair (NON-CODE 8, Replacing Pump Expendables) | U_RIG_OTR | Change 1 swab and 2 valves and seats in #1 pump. Number 2 pump had to pull trash out from under a valve. |
| 7/29/2013 17:00 | 7/29/2013 18:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | "Rotate Drill 8-1/2" Lateral 66' @ 66 ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 400 psi Diff, 3850 psi SPP, 13k TQ. Pumping weighted sweeps as needed. Backream as needed. MW 10.3 Vis 56 Connection @ 16780' MD. Survey @ 16727' MD: 90.8° Inc, 180.6° Az. Slide Drill next stand" |
| 7/29/2013 18:00 | 7/29/2013 19:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 10' @ 10 ft/hr: 30k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 340 psi Diff, 3491 psi SPP, 1k TQ, 100R GTF. Pumping weighted sweeps as needed. Backream as needed. Connection @ 16780' MD. Survey @ 16727' MD: 90.8° Inc, 180.6° Az. Rotate Drill next stand |
| 7/29/2013 19:00 | 7/29/2013 21:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 197' @ 98 ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 340 psi Diff, 3830 psi SPP, 15k TQ. Pumping weighted sweeps as needed. Backream as needed. |
| 7/29/2013 21:00 | 7/29/2013 23:00 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 20' @ 10 ft/hr: 30k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 340 psi Diff, 3433 psi SPP, 1k TQ, 70R GTF. Pumping weighted sweeps as needed. Backream as needed. Connection @ 16875' MD. Survey @ 16822' MD: 89.9° Inc, 181.6° Az. Rotate Drill next stand |
| 7/29/2013 23:00 | 7/30/2013 02:00 | 3 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 40' @ 13 ft/hr: 37k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 40 psi Diff, 3299 psi SPP, 1k TQ, 120L GTF. Pumping weighted sweeps as needed. Backream as needed. Connection @ 17349' MD. Survey @ 17296' MD: 91.7° Inc, 183.9° Az. Rotate Drill next stand |
| 7/30/2013 02:00 | 7/30/2013 06:00 | 4 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 341' @ 85 ft/hr: 37k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 340 psi Diff, 3830 psi SPP, 15k TQ. Pumping weighted sweeps as needed. Backream as needed. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 24 Daily Operation: 7/30/2013 06:00 - 7/31/2013 06:00

| | | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|-------------------------|------------|--|----------------------|
| Job Category ORIG DRILLING | | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 38 | 23 | 18,825.5 | 8,814.7 | 10.30 | H & P, 497 | | |

Operations Summary

Rotate and Slide F/ 17,388' T/ 18,852' TD @ 06:00 7-31-2013

Remarks

Rig (H&P 497) & Well Progress:

45.85 days on location, 22.91 days since rig accepted on 6/22/2013 @ 15:30, 22.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 6 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 100%

Well Plan: PTB @ 18,770' MD - INC:89.0 °, AZM: 180.9°, TVD 8,844' (4' below, 30' Left Per Plan # 4)

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------------|----------------------|---------------|--|
| 7/30/2013 06:00 | 7/30/2013 08:30 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 157' @ 62 ft/hr: 30k WOB, 80 TDS RPM, 140 spm, 536 gpm, 150 MMTR RPM, 400 psi Diff, 3750 psi SPP, 12k TQ. Slide Drill next stand Notes: Pumped 20bbl 11.0lb weighted sweep" |
| 7/30/2013 08:30 | 7/30/2013 10:00 | 1.5 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 15' @ 10 ft/hr: 45k WOB, 140 spm, 536 gpm, 150 MMTR RPM, 100 psi Diff, 3400 psi SPP, 1.1k TQ, 150L GTF |
| 7/30/2013 10:00 | 7/30/2013 10:30 | 0.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 33' @ 66 ft/hr TQ 12-14 Note: Same drilling parameters as last rotation |
| 7/30/2013 10:30 | 7/30/2013 11:30 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 10' @ 10 ft/hr TFO 150L Note: Same drilling parameters as last slide |
| 7/30/2013 11:30 | 7/30/2013 16:00 | 4.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 369' @ 82 ft/hr: Note: Same drilling parameters as last rotation |
| 7/30/2013 16:00 | 7/30/2013 19:00 | 3 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 198' @ 66 ft/hr: Note: Same drilling parameters as last rotation |
| 7/30/2013 19:00 | 7/30/2013 20:00 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 10' @ 10 ft/hr TFO 90R Note: Same drilling parameters as last slide |
| 7/30/2013 20:00 | 7/30/2013 22:30 | 2.5 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 180' @ 72 ft/hr: Note: Same drilling parameters as last rotation |
| 7/30/2013 22:30 | 7/30/2013 23:30 | 1 | PROD-DRILL LATERAL | DRILL LATERAL-SLIDE | DRL LAT-SLIDE | Slide Drill 8-1/2" Lateral 15' @ 15 ft/hr TFO 50R Note: Same drilling parameters as last slide |
| 7/30/2013 23:30 | 7/31/2013 01:30 | 2 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 160' @ 80 ft/hr: Note: Same drilling parameters as last rotation |
| 7/31/2013 01:30 | 7/31/2013 02:00 | 0.5 | PLAN | EQUIP | RIGSER | Service Rig. Lubricate Top Drive |
| 7/31/2013 02:00 | 7/31/2013 06:00 | 4 | PROD-DRILL LATERAL | DRILL LATERAL-ROTATE | DRL LAT-ROT | Rotate Drill 8-1/2" Lateral 277' @ 69 ft/hr: Note: Same drilling parameters last rotation and TD @ 06:00 7-31-2013 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 25 Daily Operation: 7/31/2013 06:00 - 8/1/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|-------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | | Primary Job Type ODR | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 39 | 24 | 18,825.5 | 8,814.7 | 10.30 | H & P, 497 | |

Operations Summary

Circulate sweeps out of hole, trip out of hole to intermediate casing shoe and lay down 2,500' of drill pipe. TOH to directional BHA and lay down. Remove Stabbing guide F/TDS, Pull Wear Bushing. Rig up CRT & Casing Tools.

Remarks

Rig (H&P 497) & Well Progress:

46.85 days on location, 23.91 days since rig accepted on 6/22/2013 @ 15:30, 23.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 6 hrs NPT for month of July

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 100%

Well Plan: PTB @ 18,852' MD - INC:89.0 °, AZM: 180.3°, TVD 8,845.47' (4' below, 30' Left Per Plan # 4)

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|-----------|------------------------|-----------|---|
| 7/31/2013 06:00 | 7/31/2013 10:00 | 4 | PROD-CIRC | CIRCULATE | CIRC | Build and pump two weighted sweeps (Vis 59 MW 11.2). Circulate each sweep out of the hole with 13,428 strokes, SPP 3,700 psi, RPM 80, TQ 7k |
| 7/31/2013 10:00 | 7/31/2013 22:30 | 12.5 | PROD-TRIP | TRIP | TRIP | TOOH wet F/ 18,852' T/ 1,331'. No excess drag seen. Trip sheet filled out and proper fill strokes observed. |
| 7/31/2013 22:30 | 8/1/2013 00:30 | 2 | PROD-TRIP | TRIP | TRIP | L/D Drill Pipe F/ 1,331' T/BHA |
| 8/1/2013 00:30 | 8/1/2013 02:30 | 2 | PROD-TRIP | TRIP | TRIP | Break out Bit. L/D Directional Tools. |
| 8/1/2013 02:30 | 8/1/2013 03:30 | 1 | PROD-TRIP | TRIP | TRIP | Pull Wear Bushing & remove Stabbing Guide F/ TDS |
| 8/1/2013 03:30 | 8/1/2013 04:30 | 1 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Clean Rig Floor. Remove Bails & Elevators. |
| 8/1/2013 04:30 | 8/1/2013 06:00 | 1.5 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Safety Meeting W / Casing Crew & Rig Crew. Rig up CRT & Casing Tools. |

Report #: 26 Daily Operation: 8/1/2013 06:00 - 8/2/2013 06:00

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|-------------------------|------------|----------------------|
| Job Category ORIG DRILLING | | | | Primary Job Type ODR | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 40 | 25 | 18,825.5 | 8,814.7 | 10.50 | H & P, 497 | |

Operations Summary

Rig up Tesco casing crew and CRT tool, hold safety meeting. Run 5.5 casg F/ 0 T/ 16,150' breaking circulation every 50 joints. Circulate bottoms up @ 8,110' (Casing Shoe) Continue to run casing @ 16,151'

Remarks

Rig (H&P 497) & Well Progress:

47.85 days on location, 24.91 days since rig accepted on 6/22/2013 @ 15:30, 24.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 0 hrs NPT for month of August

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 100%

Well Plan: PTB @ 18,852' MD - INC:89.0 °, AZM: 180.3°, TVD 8,845.47' (4' below, 30' Left Per Plan # 4)

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

RRC contacted 8-01-2013 @ 16:00 talked to Genness with answering service (Production)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|----------------|----------------|----------|----------|-----------------|-----------|--|
| 8/1/2013 06:00 | 8/1/2013 07:00 | 1 | PLAN | PERS | SFTY | Finish cleaning up floor and hold safety meeting on CRT and torques. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|----------------|----------------|----------|-----------|------------------------|-----------|---|
| 8/1/2013 07:00 | 8/1/2013 09:00 | 2 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5.5 17# P-110 TXP BTC casing F/ 0 T/ 957' (25 jts). Casing torque 10,800 psi with Tenaris pipe rep. Note: 2 joint shoe trac total length 90.19 Total casg 18,855' will be set @ 18,851. Centralizers located through the curve F/ 8,100 through T/ 9,187, every other joint total of 16 centralizers. |
| 8/1/2013 09:00 | 8/1/2013 09:30 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Fill up and break circulation w/ 55 spm 275 psi. Proper fill strokes observed |
| 8/1/2013 09:30 | 8/1/2013 10:30 | 1 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run casg F/ 957 T/ 2002 25 jts. Proper displacement observed. |
| 8/1/2013 10:30 | 8/1/2013 11:00 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Fill pipe and break circulation w/ 50 spm 275 psi Proper fill strokes observed |
| 8/1/2013 11:00 | 8/1/2013 13:30 | 2.5 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5.5 casg F/ 2,002 T/ 4212 50 jts in casing. No issues proper displacement observed |
| 8/1/2013 13:30 | 8/1/2013 14:00 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Fill casing and break circulation w/ 50 spm 225 psi. Proper fill strokes observed |
| 8/1/2013 14:00 | 8/1/2013 18:00 | 4 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5.5 casing F/4,212 T/ 8,109'. Proper displacement observed. |
| 8/1/2013 18:00 | 8/1/2013 19:30 | 1.5 | PROD-CIRC | CIRCULATE | CIRC | Circulate Bottoms up @ 8,109' 420 psi spp, 55 spm 210 gpm. Full returns proper fill strokes observed |
| 8/1/2013 19:30 | 8/1/2013 22:00 | 2.5 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5.5 casing F/8,109' T/10,485 '. Proper displacement observed. |
| 8/1/2013 22:00 | 8/1/2013 22:30 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Fill casing and break circulation w/ 55 spm 425 psi. Proper fill strokes observed |
| 8/1/2013 22:30 | 8/2/2013 01:30 | 3 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5.5 casing F/10,485' T/12,677' '. Proper displacement observed. |
| 8/2/2013 01:30 | 8/2/2013 02:00 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Fill casing and break circulation w/ 55 spm 450 psi. Proper fill strokes observed |
| 8/2/2013 02:00 | 8/2/2013 04:00 | 2 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5.5 casing F/12,677' T/14,781' '. Proper displacement observed. |
| 8/2/2013 04:00 | 8/2/2013 04:30 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Fill casing and break circulation w/ 55 spm 495 psi. Proper fill strokes observed |
| 8/2/2013 04:30 | 8/2/2013 06:00 | 1.5 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5.5 casing F/14,781' T/16,150' '. Proper displacement observed. |

Report #: 27 Daily Operation: 8/2/2013 06:00 - 8/3/2013 01:30

| | | | | | | |
|-------------------------------|-------------------------|-------------------|-------------------------|------------------------|-------------------|----------------------|
| Job Category ORIG DRILLING | | | Primary Job Type ODR | | | AFE Number 027152 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig H & P, 497 | |
| 41 | 26 | 18,825.5 | 8,814.7 | 10.50 | | |

Operations Summary

Finish running 5.5 casing, circulate bottoms up, rig down CRT tool, hold safety meeting with Schlumberger. Casing set @ 18,852'. Cement 5.5 casg, plug down on 8/2/2013 @ 19:30. Set slips on 8/2/2013 @ 23:00 and nipple down and install abandonment cap. Final report. Released rig to skid to University 2-20 13H on 8/3/2013 @ 01:30

Remarks

Rig (H&P 497) & Well Progress:

48.85 days on location, 25.91 days since rig accepted on 6/22/2013 @ 15:30, 25.64 days since spud

Rig NPT: 0 hours for previous 24 hours. 0 hrs NPT for month of August

Completion percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 100%

Well Plan: PTB @ 18,852' MD - INC:89.0 °, AZM: 180.3°, TVD 8,845.47' (4' below, 30' Left Per Plan # 4)

RRC contacted 6-22-2013 @ 16:00 talked to Darla with Answering service (Surface)

RRC contacted 6-29-2013 @ 18:00 talked to O.J with answering service (Intermediate)

RRC contacted 8-01-2013 @ 16:00 talked to Genness with answering service (Production)

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|----------------|----------------|----------|-----------|------------------------|-----------|--|
| 8/2/2013 06:00 | 8/2/2013 06:30 | 0.5 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5.5 P-110 TXP BTC casing F/ 16,150' T/ 16,927' Torque 10,800. Hole displacement to trip tanks. Proper hole displacement observed |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|----------------|----------------|----------|--------------|---------------------------|-----------|---|
| 8/2/2013 06:30 | 8/2/2013 07:00 | 0.5 | PROD-CIRC | CIRCULATE | CIRC | Circulate casg w/ 80 spm 306 gpm 650 spp. Casing string getting light on the way down. Proper fill strokes observed. |
| 8/2/2013 07:00 | 8/2/2013 09:30 | 2.5 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Run 5 1/2 csing F/16927' T/ 18852'. Ran a total of 249 joints 5 1/2 17# P-110 TXP BTC casing. Marker joints set @ 7992' And 8310'. Top of FC @ 18757', Shoe set @ 18847'. Shoe track is 90.19 ' |
| 8/2/2013 09:30 | 8/2/2013 10:30 | 1 | PROD-CIRC | CIRCULATE | CIRC | Circulate Btms up. @ 5.5 bbl/min |
| 8/2/2013 10:30 | 8/2/2013 11:00 | 0.5 | PROD-CASE | RUN PRODUCTION CASTING | CASE | Rig down CRT and casing equipment. |
| 8/2/2013 11:00 | 8/2/2013 13:00 | 2 | PROD-CIRC | CIRCULATE | CIRC | Rig up circulating swedge and circulate 1.5 X casing capacity. |
| 8/2/2013 13:00 | 8/2/2013 14:00 | 1 | PROD-CMT | CEMENT PRODUCTION CASTING | CMT | Pre job safety meeting with Schlumberger and rig crews. Rig up to cement. Test lines to 4500 psi. |
| 8/2/2013 14:00 | 8/2/2013 19:30 | 5.5 | PROD-CMT | CEMENT PRODUCTION CASTING | CMT | Cement 5-1/2" Production casing as follows: 45 bbls of 10.8 ppg Mud Push @ 2 bpm. Max pressure during stage: 250 psi 251 bbls of 11 ppg TXI Lead Cmt @ 5 bpm. Max pressure during stage: 300 psi 537 bbls of 12.5 ppg Tail Cmt @ 5 bpm. Max pressure during stage: 300 psi 438 bbls (1 bbl past calculated Displacement) of 8.3 ppg biocide treated Water @ 5 bpm. Max pressure during stage: 2200 psi @ 4.5 bbl/min Plug did not bump Bled back 2.5 bbls - floats held 45 bbls mud push spacer and 13 bbls of cement back to surface. Full returns throughout job |
| 8/2/2013 19:30 | 8/2/2013 20:00 | 0.5 | PROD-CMT | CEMENT PRODUCTION CASTING | CMT | Wash through BOPs, Flow Line, Stand Pipe, Shaker Manifold. |
| 8/2/2013 20:00 | 8/2/2013 21:00 | 1 | PROD-CMT | CEMENT PRODUCTION CASTING | CMT | Rig down Cementing tools |
| 8/2/2013 21:00 | 8/2/2013 22:00 | 1 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Nipple Down BOPs |
| 8/2/2013 22:00 | 8/2/2013 23:00 | 1 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Clean out Well Head, Set Casing Slips & Cut Casing |
| 8/2/2013 23:00 | 8/3/2013 00:00 | 1 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Nipple Down BOPs |
| 8/3/2013 00:00 | 8/3/2013 01:30 | 1.5 | PROD-NU/TEST | NIPPLE UP/TEST | NU/TEST | Clean Well Head, Install Well Cap. Torque Bolts. Skidding rig to University 2-20 13H. Nipple up bops Final report. Rig released to skid to the University 2-20 13H |

Report #: 1 Daily Operation: 9/11/2013 06:00 - 9/12/2013 06:00

| | | | | | | | |
|---------------------------------|-------------------------|-------------------|-------------------------|------------------------|--------------------------|----------------------|--|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | |
| 81 | 1 | 18,825.5 | -26.5 | | CDK Perforating, <rigno> | | |

Operations Summary

No activity, Ru wireline, ran gage ring to 9046', install tubing head and lower half of frac stack, RIH w/ 2.75" GR/CCL/CBL, Logged well from 9,060' to surface, Estimate TOC @ 170' WLM. RDMOL CDK WL equipment. WSI w/ 0 Psi Csg.

Remarks

No accident or incident

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|------------------|-----------|-------------|
| 9/11/2013 06:00 | 9/11/2013 12:00 | 6 | COMPL | Other operations | OTHR | No activity |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--------------------------------------|-----------|--|
| 9/11/2013 12:00 | 9/11/2013 12:45 | 0.75 | COMPL | RURD any equipment: WL, EL, CT, etc. | RURD | Rig up CDK Perfortaing to run gage ring and CBL |
| 9/11/2013 12:45 | 9/11/2013 14:30 | 1.75 | COMPL | cement bond log | LOGCBL | Remove night cap and run gage ring to 9,046' |
| 9/11/2013 14:30 | 9/12/2013 02:00 | 11.5 | COMPL | Other operations | OTHR | Waiting on gage ring run on 13H and 12H and installation of tubing heads and lower frac stacks |
| 9/12/2013 02:00 | 9/12/2013 02:15 | 0.25 | PROD1 | OTHER | WSI | MO/RU CDK WL from #13 well. |
| 9/12/2013 02:15 | 9/12/2013 05:15 | 3 | COMPL | cement bond log | LOGCBL | RIH w/ 2.75" OD GR/CCL/CBL. set down @ 9,060' WLM. Logged first pass without pressure from 9,060' to 8,350' to top of ratty cement. Make second pass w/ 1500 psi on casing. Logged well from 9,036' to estimated top of cement @ 170' WLM. Bleed-off pressure, continue logging well to surface. |
| 9/12/2013 05:15 | 9/12/2013 05:45 | 0.5 | COMPL | RURD any equipment: WL, EL, CT, etc. | RURD | OOH w/ GR/CCL/CBL. RDMOL CDK WL equipment. |
| 9/12/2013 05:45 | 9/12/2013 06:00 | 0.25 | PROD1 | OTHER | WSI | WSI w/ 0 psi. |

Report #: 2 Daily Operation: 9/12/2013 06:00 - 9/13/2013 06:00

| | | | | | | |
|---|------------------------------|-------------------------------|----------------------------------|------------------------|-----|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 82 | Days on Location (days) 2 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig | |
| Operations Summary Well shut in pending TCP ops on 12H and 13H | | | | | | |
| Remarks | | | | | | |

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|------------------|-----------|--|
| 9/12/2013 06:00 | 9/13/2013 06:00 | 24 | COMPL | Other operations | OTHR | Well shut pending TCP ops on 12H and 13H |

Report #: 3 Daily Operation: 9/13/2013 06:00 - 9/14/2013 06:00

| | | | | | | |
|---|-------------------------|-------------------|-------------------------|------------------------|-----|------------|
| Job Category | | | Primary Job Type | | | AFE Number |
| ORIG COMPLETION | | | OCM | | | 027691 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 83 | 3 | 18,825.5 | -26.5 | | | |
| Operations Summary | | | | | | |
| Well shut in pending TCP ops on 12H and 13H | | | | | | |
| Remarks | | | | | | |

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|------------------|-----------|------------------------------------|
| 9/13/2013 06:00 | 9/14/2013 06:00 | 24 | COMPL | Other operations | OTHR | WSI pending TCP ops on 12H and 13H |

Report #: 4 Daily Operation: 9/14/2013 06:00 - 9/15/2013 06:00

| | | | | | | |
|---|-------------------------|-------------------|-------------------------|------------------------|-----|------------|
| Job Category | | | Primary Job Type | | | AFE Number |
| ORIG COMPLETION | | | OCM | | | 027691 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 84 | 3 | 18,825.5 | -26.5 | | | |
| Operations Summary | | | | | | |
| Well shut in pending TCP ops on 12H and 13H | | | | | | |
| Remarks | | | | | | |

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|------------|----------|----------|----------|-----------------|-----------|-----|
| | | | | | | |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 5 Daily Operation: 9/15/2013 06:00 - 9/16/2013 06:00

| | | | | | | |
|---------------------------------|------------------------------|-------------------------------|----------------------------------|------------------------|-----|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 85 | Days on Location (days) 3 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig | |

Operations Summary

Well shut in pending TCP ops on 12H and 13H

Remarks

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|------------|----------|----------|----------|-----------------|-----------|-----|
| | | | | | | |

Report #: 6 Daily Operation: 9/17/2013 06:00 - 9/18/2013 06:00

| | | | | | | |
|---------------------------------|------------------------------|-------------------------------|----------------------------------|------------------------|--------------------------------|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 87 | Days on Location (days) 4 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig Mesa Well Services, 219 | |

Operations Summary

MIRU Workover Rig and equipment. Tested the Intermediate to 1,600 psi and it held, we then tested the casing to 8,500 psi test held for 5 min. RIH with Bit to PBTD.

Remarks

New 4-3/4" JZ bit
S/N 1316938

323 Joints of 2 3/8" PH-6 on location
297 Joints of 2 7/8" PH-6 on location
6 Joints of 2 7/8" 8 round on location
3 Crossovers 2 3/8" PH-6 Box, 2 7/8" PH-6 Pin on location
1 Crossover 2 7/8" PH-6 Box, 2 3/8" PH-6 Pin on location

NOTE: Replaced 2 joints of 2 7/8" PH-6 , and 2 joints of 2 3/8" PH-6 that was bad.

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|---|------------|--|
| 9/17/2013 06:00 | 9/17/2013 14:30 | 8.5 | COMPL | Other operations | OTHR | NO ACTIVITY |
| 9/17/2013 14:30 | 9/17/2013 16:30 | 2 | COMPL | Other operations | OTHR | Had leak on Tubing Head fixed leak. Tested Intermediate to 1600 psi and the Caseing to 8,500 psi Test held for 5min bleed psi off. RU Flowback line. |
| 9/17/2013 16:30 | 9/17/2013 20:30 | 4 | COMPL | Other operations | OTHR | MORU Workover Rig on the University 2-20 #14H for TCP OPS. |
| 9/17/2013 20:30 | 9/18/2013 06:00 | 9.5 | COMPL | Clean out with tubulars @ beginning of completion | TUB-CLNOUT | TIH with split string of tubing(2 3/8 & 2 7/8 PH6), bit sub and 4 3/4" JZ Rock bit. RIH to 10,000' feet and pump 150 bbls of freshwater with Beckalube. RIH to PBTD. |

Report #: 7 Daily Operation: 9/18/2013 06:00 - 9/19/2013 06:00

| | | | | | | |
|---------------------------------|------------------------------|-------------------------------|----------------------------------|------------------------|--------------------------------|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 88 | Days on Location (days) 5 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig Mesa Well Services, 219 | |

Operations Summary

RIH with 2 7/8" tbg down to PBTD @ 19,725'. Circulate hole with limomene, soda ash water, and freshwater with Beckalube. POOH with tubing and get ready to run TCP guns.

Remarks

New 4-3/4" JZ bit
S/N 1316938

323 Joints of 2 3/8" PH-6 on location
297 Joints of 2 7/8" PH-6 on location
6 Joints of 2 7/8" 8 round on location
3 Crossovers 2 3/8" PH-6 Box, 2 7/8" PH-6 Pin on location
1 Crossover 2 7/8" PH-6 Box, 2 3/8" PH-6 Pin on location

NOTE: Replaced 2 joints of 2 7/8" PH-6 , and 2 joints of 2 3/8" PH-6 that was bad.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|---|------------|---|
| 9/18/2013 06:00 | 9/18/2013 10:45 | 4.75 | COMPL | Tbg related operations | TUBING | RIH with 323 jts of 2 3/8" and 274 jts of 2 7/8" workstring down to 18,574'. Tagged up 183' high. Plug didnot bump and flowed back 2.5 bbls from drilling report. Called in and talked with Owen and was told to pickup swivel and drill out cement. Layed down 1 jt and started rigging up swivel. |
| 9/18/2013 10:45 | 9/18/2013 11:45 | 1 | COMPL | Clean out with tubulars @ beginning of completion | TUB-CLNOUT | Pickup swivel and prepare to drill out cement down to float collar @18,757'. |
| 9/18/2013 11:45 | 9/18/2013 20:00 | 8.25 | COMPL | Clean out with tubulars @ beginning of completion | TUB-CLNOUT | Drilled out cement from 18574' down to 18,725'. Tagged Float Collar and pulled up 10' and circulated 10 bbl gel sweep, 50 bbl freshwater, 15 bbls of Linomene, 5 bbl spacer, 30 bbl soda ash, 200 bbls of freshwater, 250 bbls freshwater w/beckalube. |
| 9/18/2013 20:00 | 9/19/2013 06:00 | 10 | COMPL | Other operations | OTHR | POOH standing tubing in derrick. |

Report #: 8 Daily Operation: 9/19/2013 06:00 - 9/20/2013 06:00

| | | | | | | |
|---------------------------------|------------------------------|-------------------------------|----------------------------------|------------------------|--------------------------------|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 89 | Days on Location (days) 6 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig Mesa Well Services, 219 | |

Operations Summary

POOH with tubing from clean out run. PU TCP guns and RIH to perf 1st stage.Shoot guns and POOH laying down.

Remarks

New 4-3/4" JZ bit
S/N 1316938

323 Joints of 2 3/8" PH-6 on location
297 Joints of 2 7/8" PH-6 on location
6 Joints of 2 7/8" 8 round on location
3 Crossovers 2 3/8" PH-6 Box, 2 7/8" PH-6 Pin on location
1 Crossover 2 7/8" PH-6 Box, 2 3/8" PH-6 Pin on location

NOTE: Replaced 2 joints of 2 7/8" PH-6 , and 2 joints of 2 3/8" PH-6 that was bad.

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|------------------------|-----------|---|
| 9/19/2013 06:00 | 9/19/2013 07:00 | 1 | COMPL | Tbg related operations | TUBING | Continue POOH with workstring and clean out BHA. |
| 9/19/2013 07:00 | 9/19/2013 15:00 | 8 | COMPL | TCP operations | TCP | PU TCP guns and RIH with tbg and guns |
| 9/19/2013 15:00 | 9/19/2013 15:15 | 0.25 | COMPL | TCP operations | TCP | Tagged PBTD and picked up 10' . Shut well in and pressured up on well to 2600 psi and 1st gun fired perforating from 18,715'-17', remaing guns fired at correct time intervals perforating from 18,675'-67', 18,615'-17', 18,555'-57', 18,495'-97'. RIH with 3 1/8" guns, 19 grm charge, 60 degree phasing, .42" EHD, 24" pentration depth. |
| 9/19/2013 15:15 | 9/20/2013 04:15 | 13 | COMPL | Tbg related operations | TUBING | POOH laying down 2 7/8" WS. |
| 9/20/2013 04:15 | 9/20/2013 06:00 | 1.75 | COMPL | Other operations | OTHR | Start rigging down trig and equipment. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 9 Daily Operation: 9/20/2013 06:00 - 9/21/2013 06:00

| | | | | | | |
|---------------------------------|------------------------------|-------------------------------|----------------------------------|-------------------------|--------------------------------|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 90 | Days on Location (days) 7 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig Mesa Well Services, 219 | |

Operations Summary

Mesa WO rig and support groups rigging down, load out work string, nipple up upper half of frac stack

Remarks

New 4-3/4" JZ bit
S/N 1316938

323 Joints of 2 3/8" PH-6 on location
297 Joints of 2 7/8" PH-6 on location
6 Joints of 2 7/8" 8 round on location
3 Crossovers 2 3/8" PH-6 Box, 2 7/8" PH-6 Pin on location
1 Crossover 2 7/8" PH-6 Box, 2 3/8" PH-6 Pin on location

NOTE: Replaced 2 joints of 2 7/8" PH-6, and 2 joints of 2 3/8" PH-6 that was bad.

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 9/20/2013 06:00 | 9/20/2013 12:00 | 6 | COMPL | RURD any equipment: WL, EL, CT, etc. | RURD | Rig and support groups rigging down |
| 9/20/2013 12:00 | 9/20/2013 16:00 | 4 | COMPL | Other operations | OTHR | Loading tubing and pipe racks, move catwalk, basebeam to next location. |
| 9/20/2013 16:00 | 9/20/2013 18:00 | 2 | COMPL | ND, NU, Testing, Sleeve Installation, Greasing Wel | WLHEAD | Nipple up goathead and torque to spec's |
| 9/20/2013 18:00 | 9/21/2013 06:00 | 12 | COMPL | Other operations | OTHR | Well shut in waiting on frac |

Report #: 10 Daily Operation: 9/21/2013 06:00 - 9/22/2013 06:00

| | | | | | | |
|---------------------------------|------------------------------|-------------------------------|----------------------------------|-------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 91 | Days on Location (days) 8 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Move in and rig up Pioneer Pumping Services and all third party equipment.

Remarks

No Accidents or Incidents Reported

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|--------------|------------------|-----------|---|
| 9/21/2013 06:00 | 9/21/2013 09:00 | 3 | COMPL | Other operations | OTHR | WSI, Waiting on the arrival of equipment |
| 9/21/2013 09:00 | 9/21/2013 10:00 | 1 | COMPL | Other operations | OTHR | Held safety meeting with all personnel on location |
| 9/21/2013 10:00 | 9/22/2013 06:00 | 20 | MOBILIZATION | MIRU | MIRU | Move in and rig up Pioneer Pumping Services and all third party equipment |

Report #: 11 Daily Operation: 9/22/2013 06:00 - 9/23/2013 06:00

| | | | | | | |
|---------------------------------|------------------------------|-------------------------------|----------------------------------|-------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 92 | Days on Location (days) 9 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Move in and rig up Pioneer Pumping Services and all third party equipment.
PPS equipment was completely rigged up and finish @ approx 0145 hrs.
PPS has begun priming up and testing lines @ 0415 hrs after completing pump maintenance on 2 units.
All third parties companies are spotted and completely rigged up.
and awaiting of their arrival.

Remarks

No Accidents or Incidents Reported

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|--------------|-----------------|-----------|--|
| 9/22/2013 06:00 | 9/23/2013 01:30 | 19.5 | MOBILIZATION | MIRU | MIRU | Move in and rig up Pioneer Pumping Services and all third party equipment Rig up complete @ 0145 hrs. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|--|-----------|---|
| 9/23/2013 01:30 | 9/23/2013 04:00 | 2.5 | COMPL | Required pump maintenance for zipper frac equipmem | ZPM | Pump maintenace on 2 pumps |
| 9/23/2013 04:00 | 9/23/2013 06:00 | 2 | COMPL | Other operations | OTHR | Priming up and testing lines |
| 9/23/2013 06:00 | 9/23/2013 06:00 | | PROD1 | SHARE | SFTY | Safety Meeting w/ all personal. Job procedures, and safety topics |
| 9/23/2013 06:00 | 9/23/2013 06:00 | | PROD1 | SHARE | SFTY | <p>Frac Stage # 1 of 33. Test stack to 8,500 PSI , Frac perfs as proposed W/ XX bbls. 15% HCL XXXX # 20/40 Brady / XXXX # 20/40 RC Sand/ XXXX BBLs Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ XXXX PSI Acid on form @ 30 BPM/ XXXX PSI Acid cleared @ 60 BPM/ XXXX PSI</p> <p>Pad ISIP: XXXX PSI</p> <p>Avg rate: XX BPM Avg PSI: XXXX Max rate: 80.0 BPM Max PSI: XXXX</p> <p>ISIP: XXXX PSI FG .XXX</p> <p>FTR: XXXXX BBLs LTR Total: XXXX BBLs SIF: XXXXXX # Total SIF: XXXXX #</p> |
| 9/23/2013 06:00 | 9/23/2013 06:00 | | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for stage #2 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 18,466' Perforated Intervals: 18435/18437, 18375/18377, 18315/18317, 18255/18257, 18195/18197 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ XX bpm / XXXX psi. Line Speed XXX ft/min</p> <p>Used XX bbls LTR Total XX Bbls</p> |
| 9/23/2013 06:00 | 9/23/2013 06:00 | | COMPL | Frac | STIM | <p>Frac Stage # 2 of 33. Test stack to 8,500 PSI , Frac perfs as proposed W/ XX bbls. 15% HCL XXXX # 20/40 Brady / XXXX # 20/40 RC Sand/ XXXX BBLs Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ XXXX PSI Acid on form @ 30 BPM/ XXXX PSI Acid cleared @ 60 BPM/ XXXX PSI</p> <p>Pad ISIP: XXXX PSI</p> <p>Avg rate: XX BPM Avg PSI: XXXX Max rate: 80.0 BPM Max PSI: XXXX</p> <p>ISIP: XXXX PSI FG .XXX</p> <p>FTR: XXXXX BBLs LTR Total: XXXX BBLs SIF: XXXXXX # Total SIF: XXXXX #</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 12 Daily Operation: 9/23/2013 06:00 - 9/24/2013 06:00

| | | | | | | | | |
|---------------------------------|-------------------------|-------------------|-------------------------|-------------------------|---|--|----------------------|--|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | | AFE Number 027691 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | | |
| 93 | 10 | 18,825.5 | -26.5 | | PIONEER PUMPING SERVICES, SWAT Fleet #1 | | | |

Operations Summary

FracStages 1 thru 2

Wireline Stage 1 thru 2

WL had to RIH and reperf stage #1 due to treating @ max psi and able to get designed rate.

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 3.0 Hrs Cum:4.5 Hrs

Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs

E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -

RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 16,838 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 16,838 bbls

TSIF: 681,608 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|-----------------|-----------|---|
| 9/23/2013 06:00 | 9/23/2013 08:00 | 2 | PROD1 | SHARE | SFTY | Safety Meeting w/ all personal. Job procedures, and safety topics |
| 9/23/2013 08:00 | 9/23/2013 09:45 | 1.75 | COMPL | Frac | STIM | <p>Frac Stage # 1 of 33. Test stack to 8,500 PSI , Frac perms as proposed W/ 88 bbls. 15% HCL 11,784 # 20/40 Brady / 5,277 BBLs Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 7,247 PSI Acid on form @ 40 BPM/ 6,729 PSI Acid cleared @ 40 BPM/ 6,687 PSI</p> <p>Avg rate: 64 BPM Avg PSI: 6,592 Max rate: 80.0 BPM Max PSI: 7,986</p> <p>ISIP: 3,914 PSI FG .87</p> <p>FTR: 5,277 BBLs LTR Total: 5,277 BBLs SIF: 11,784 # Total SIF: 11,784 #</p> <p>Note-Pioneer had issues retrieving data from the Chem-Add Unit. Unable to plot the Fr concentration.Problem was fixed during pad. Riding high pressure during pad.Rate 76 bpm @ 7,800 psi.Sent a .25# slug to insure that formation would be able to take proppant before proceeding on with the designed schedule.had a 200 lb dedcrease in pressure when the .25# hit formation. Started sand as designed. Pressure started to increase during the 1# stage. Cut sand and started decreasing rate. Pumped a sweep Rate was at 55 bpm @ 8,200 psi.Called the engineer and he requested to reperf and additional 40 holes with an offset of 5 ft. Shut down, pumped 11,784 lbs of Brady into formation.</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|---------------|---|-----------|---|
| 9/23/2013 09:45 | 9/23/2013 13:45 | 4 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for stage #1A of 33. RIH w/ 5 – 3-1/8" guns, Perforated offset Intervals of 5 ft: 18,732/18,730, 18,672/18,670, 18,612/18,610, 18,552/18,550, 18,492/18,490 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 7,050 psi. Line Speed 268 ft/min Used 702 bbls LTR Total 5,979 Bbls |
| 9/23/2013 13:45 | 9/23/2013 16:00 | 2.25 | COMPL | Other operations | OTHR | Waited on PPS to complete stage 1 on #13 and waited on pump maintenance. Will return to #14 before starting stage 1 on the #12 |
| 9/23/2013 16:00 | 9/23/2013 18:15 | 2.25 | COMPL | Frac | STIM | Frac Stage # 1A of 33. Test stack to 8,500 PSI , Frac perfs as proposed W/ 93 bbls. 15% HCL 334,047 # 20/40 Brady / 10,329 BBLS Hybrid fluid, down 5.5' CSG Acid on form @ 42 BPM/ 6,844 PSI Acid cleared @ 60 BPM/ 7,210 PSI Avg rate: 65.0 BPM Avg PSI: 7739 Max rate: 80.0 BPM Max PSI: 8459 ISIP: 3886 PSI FG .87 FTR: 10,329 BBLS LTR Total: 16,308 BBLS SIF: 334,047 # Total SIF: 345,831 # Note-Started with a 15# X-link system instead of slickwater. Rate 66 bpm @ 8,100 psi while on pad. Sent a .25# slug. Gained about 100 psi when sand hit formation. Sent a .5# slug. Pressure dropped 300 psi when sand hit formation. Decided to start sand at .25# and slowly walk up on concentration as the pressure allows. Lost a pump due to a blown d-ring during the .25# sand stage. |
| 9/23/2013 18:15 | 9/23/2013 20:15 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for stage #2 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 18,466' Perforated Intervals: 18435/18437, 18375/18377, 18315/18317, 18255/18257, 18195/18197 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5759 psi. Line Speed 350 ft/min Used 530 bbls LTR Total 16,838 Bbls |
| 9/23/2013 20:15 | 9/23/2013 22:30 | 2.25 | COMPL | Other operations | OTHR | Waiting on frac operations on #12 & #13 |
| 9/23/2013 22:30 | 9/24/2013 01:30 | 3 | COMPL_UNPLN D | Unplanned time due to PXD pumping services` | U_PEPX D | working on pumps, and gathering enough hoses to acetic. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 9/24/2013 01:30 | 9/24/2013 03:30 | 2 | COMPL | Frac | STIM | Frac Stage # 2 of 33. Test stack to 8,500 PSI , Frac perms as proposed W/ 32 bbls. 15% HCL 335,777 # 20/40 Brady / 7130 BBLS Hybrid fluid, down 5.5' CSG Formation broke @ 20 BPM/ 4685 PSI Acid on form @ 30 BPM/ 5687 PSI Acid cleared @ 60 BPM/ 7975 PSI Pad ISIP: 4005 PSI Avg rate: 72.5 BPM Avg PSI: 7361 Max rate: 80.0 BPM Max PSI: 8537 ISIP: 3365 PSI FG .89 FTR: 7130 BBLS LTR Total: 23,968 BBLS SIF: 335,777 # Total SIF: 681,608 # |
| 9/24/2013 03:30 | 9/24/2013 06:00 | 2.5 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | Currently RIH w/WL to plug & perf stage #3 @ Report Time! |

Report #: 13 Daily Operation: 9/24/2013 06:00 - 9/25/2013 06:00

| | | |
|--|---|--|
| Job Category ORIG COMPLETION | Primary Job Type OCM | AFE Number 027691 |
| Days From Spud (days) 94 | Days on Location (days) 11 | End Depth (ftGRD) 18,825.5 |
| | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) PIONEER PUMPING SERVICES, SWAT Fleet #1 |

Operations Summary

FracStages 3 thru Screened out stage 4
Wireline Stage 3 thru 4

Held 1,500 psi on the intermediate casing.

Screen out Stage # 4 @ 2249 hrs.

Had to cut sand @ 1 ppa after pumping 36 k lbs of 20/40 brady.

Psi was approx 7300 lbs during pad, started gel 700 bbls prior to .50 ppa sand

gained a couple hundred lbs due pipe friction. As we were heading up into the XL fluid system

PPS had issues with a couple of pumps Which also caused rate to flexuate between 80 & 72 bpm, and as they got the rate back psi was on the rise during the 1ppa. Having to cut it @ 36 k lbs and flushing it. Psi then came up to fast forcing us to shutdown.

Flowback well for 690 bbls and got back into it @ 0054 hrs. Got up to 30 bpm and dropped rate down to 5 bpm. Shut down a couple times and Got back into at +/- 10 bpm for 1432 bbls and Shutdown @ 0424 hrs.

Remarks

PPS Downtime: 3.0 Hrs Cum:9.5 Hrs

Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs

E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -

RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 37,423 bbls

RT: 690 bbls

CR: 690 bbls

LTR: 36,733 bbls

TSIF: 1,053,180 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|---------------|---|-----------|--|
| 9/24/2013 06:00 | 9/24/2013 07:00 | 1 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for stage #3 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 18,166' Perforated Intervals: 18,137-18,135 / 18,077-18,075 / 18,017-18,015 / 17,957-17,955 / 17,897-17,895 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL. Pump Down @ 18 bpm / 6050 psi. Line Speed 360 ft/min Used 520 bbls LTR Total 24,488 Bbls |
| 9/24/2013 07:00 | 9/24/2013 12:45 | 5.75 | COMPL | Other operations | OTHR | Waiting on frac operations on the #12, #13 Also had to swap out two frac pumps due to leaking stuffing boxes on the fluid ends |
| 9/24/2013 12:45 | 9/24/2013 14:00 | 1.25 | COMPL | Frac | STIM | Frac Stage # 3 of 33. Test stack to 8,500 PSI , Frac perfs as proposed W/ 57 bbls. 15% HCL 335,220 # 20/40 Brady / 7,325 BBLS Hybrid fluid, down 5.5' CSG Formation broke @ 20 BPM/ 4,846 PSI Acid on form @ 30 BPM/ 5,367 PSI Acid cleared @ 60 BPM/ 5,855 PSI Pad ISIP: 3,979 PSI Avg rate: 71 BPM Avg PSI: 7,403 Max rate: 80.0 BPM Max PSI: 8,288 ISIP: 3,650 PSI FG .84 FTR: 7,325 BBLS LTR Total: 31,813 BBLS SIF: 335,220 # Total SIF: 1,016,828 # Note-Had to drop rate due to a steady increase in pressure during the sand stages. Held the 1.5# stage and ramped up to 1.75# due to pressure. Will ramp sand as pressure allows. Lost a pump during the 2# stage due to a blown discharge hose. |
| 9/24/2013 14:00 | 9/24/2013 15:45 | 1.75 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for stage #4 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 17,866' Perforated Intervals: 17,837-17,835 / 17,777-17,775 / 17,717-17,715 / 17,657-17,655 / 17,597-17,595 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL. Pump Down @ 18 bpm / 4,900 psi. Line Speed 277 ft/min Used 476 bbls LTR Total 32,289 Bbls |
| 9/24/2013 15:45 | 9/24/2013 21:45 | 6 | COMPL | Other operations | OTHR | Waiting on PPS to complete stage 3 on #13 and stage 3 on #12 |
| 9/24/2013 21:45 | 9/25/2013 00:45 | 3 | COMPL_UNPLN D | Unplanned time due to PXD pumping services` | U_PEPX D | Waiting on PPS to go thru pumps and transfer chems. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|------------------|-----------|--|
| 9/25/2013 00:45 | 9/25/2013 04:15 | 3.5 | COMPL | Frac | STIM | <p>Frac Stage # 4-A of 33. Test stack to 8,500 PSI , Frac perms as proposed W/ 45 bbls. 15% HCL 36,352 # 20/40 Brady / 5134 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4806 PSI Acid on form @ 30 BPM/ 5994 PSI Acid cleared @ 60 BPM/ 6545 PSI</p> <p>Pad ISIP: 3964 PSI</p> <p>Avg rate: 21.9 BPM Avg PSI: Max rate: 80.0 BPM Max PSI: 9208</p> <p>ISIP: Screenout!!! FG .00</p> <p>FTR: 5134 BBLS CR: 690 BBLS RT: 690 BBLS LTR: 36,733 BBLS SIF: 36,352 # Total SIF: 1,053,180 #</p> <p>Screen out Stage # 4 @ 2249 hrs. Had to cut sand @ 1 ppa after pumping 36 k lbs of 20/40 brady. Psi was approx 7300 lbs during pad, started gel 700 bbls prior to .50 ppa sand gained a couple hundred lbs due pipe friction. As we were heading up into the XL fluid system PPS had issues with a couple of pumps Which also caused rate to flexuate between 80 & 72 bpm, and as they got the rate back psi was on the rise during the 1ppa. Having to cut it @ 36 k lbs and flushing it. Psi then came up to fast forcing us to shutdown.</p> <p>Flowback well for 690 bbls and got back into it @ 0054 hrs. Got up to 30 bpm and dropped rate down to 5 bpm. Shut down a couple times and Got back into at +/- 10 bpm for 1432 bbls and Shutdown @ 0424 hrs.</p> |
| 9/25/2013 04:15 | 9/25/2013 06:00 | 1.75 | COMPL | Other operations | OTHR | Waiting on Frac Operations on # 13 |

Report #: 14 Daily Operation: 9/25/2013 06:00 - 9/26/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------|-------------------|-------------------------|-------------------------|---|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 95 | 12 | 18,825.5 | -26.5 | | PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary
MIRU KEY CTU

Wash down to 17,860'. Pump 10 bbl sweep out the end of the coil. Pump 2nd 10 bbl sweep out the end of the CT and POOH with CT chasing sweep.

Remarks
PPS Downtime: 3.0 Hrs Cum:9.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 37,423 bbls

RT: 60 bbls

CR: 1720 bbls

LTR: 35,703 bbls

TSIF: 1,053,180 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|--------------|---|------------|---|
| 9/25/2013 06:00 | 9/25/2013 14:00 | 8 | COMPL | Other operations | OTHR | Waiting on Key CT to arrive on location for clean out. |
| 9/25/2013 14:00 | 9/25/2013 19:00 | 5 | MOBILIZATION | MIRU | MIRU | Miru Key CT, test bop, suface equip, NU 4-3/4" JZ rock bit. motor BHA 27'. |
| 9/25/2013 19:00 | 9/26/2013 04:00 | 9 | COMPL | Clean out with tubulars @ beginning of completion | TUB-CLNOUT | Sicp 2950 psi. RIH, wash sand, clean wellbore. Wash down to 17,860'. Pump 10 bbl sweep out the end of the coil. Pump 2nd 10 bbl sweep out the end of the CT and POOH with CT chasing sweep. |
| 9/26/2013 04:00 | 9/26/2013 06:00 | 2 | COMPL | Clean out with tubulars @ beginning of completion | TUB-CLNOUT | POOH with CT at report time |

Report #: 15 Daily Operation: 9/26/2013 06:00 - 9/27/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 96 | Days on Location (days) 13 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Wih to 17,194' Stalling out, Pumped Beka-lube, Pipe on pipe condition pipe Wih to 17,573'. Puh 17,197' Attempt to Rih, unable Rih. perforated @ current depth per engineer.

Shut well in and pressured up on well to 3300 psi and 1st gun fired perforating from 17,211'-13', remaing guns fired at correct time intervals perforating from 17,157'-59', 17,103'-05', 17,049'-51', 16,995'-97'. RIH with 3 1/8" guns, 25 grm charge, 60 degree phasing, .42" EHD, 35" PD/ 4SPF. 40 Holes. POOH W/Coil, laid down BHA and cleaned out coil with nitrogen. RD Coil Tubing and mixing plant. MIRU E&P Wireline, SPC and American Crane. Await Frac Ops. Fraced STG #6 per sheludule.

Remarks

PPS Downtime: 3.0 Hrs Cum:9.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 46,0001 bbls

RT: 1,085 bbls

CR: 2,805 bbls

LTR: 43,196 bbls

TSIF: 1,410,180 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|------------------------|---|----------------------------------|---|
| 9/26/2013 06:00 | 9/26/2013 07:00 | 1 | COMPL | Clean out trip prior to logging, CCL or other log | CLNOUT | POOH with CT |
| 9/26/2013 07:00 | 9/26/2013 08:00 | 1 | SURF-TST CSG/DO/FIT | TEST CSG/DRILL OUT/FIT | TEST CSG/DRI LL OUT/FIT | PooH w/ CT, ND Motor, bit. sicp 2700 psi. Injection tst 1 bpm @ 3450 psi. 3 bpm @ 3630 psi & climbing. pumped 10 bbls. RU CDK TCP guns to re-perf stg 4. |
| 9/26/2013 08:00 | 9/26/2013 18:00 | 10 | COMPL | Coil tbg conveyed CCL log run | LOGCCL | Wih to 17,194' Stalling out, Pumped Beka-lube, Pipe on pipe condition pipe Wih to 17,573'. Puh 17,197' Attempt to Rih, unable Rih. perforated @ current depth per engineer. Shut well in and pressured up on well to 3300 psi and 1st gun fired perforating from 17,211'-13', remaing guns fired at correct time intervals perforating from 17,157'-59', 17,103'-05', 17,049'-51', 16,995'-97'. RIH with 3 1/8" guns, 25 grm charge, 60 degree phasing, .42" EHD, 35" PD/ 4SPF. 40 Holes |
| 9/26/2013 18:00 | 9/26/2013 23:00 | 5 | COMPL | Clean out trip prior to logging, CCL or other log | CLNOUT | POOH W/BHA and perf guns. (All shots fired). Lay down BHA |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|--------------|-----------------|-----------|---|
| 9/26/2013 23:00 | 9/27/2013 02:30 | 3.5 | MOBILIZATION | RDMO | RDMO | Laid down BHA, Purged coil with nitrogen. Shut in well, RD Coil and Mixing Plant. Move all equipment off location. |
| 9/27/2013 02:30 | 9/27/2013 03:30 | 1 | MOBILIZATION | MIRU | MIRU | MIRU E&P Wireline, SPC and American Crane for Frac Ops. |
| 9/27/2013 03:30 | 9/27/2013 06:00 | 2.5 | COMPL | Frac | STIM | <p>Frac Stage # 6 of 33. Test stack to 8,500 PSI , Frac perms as proposed W/ 36 bbls. 15% HCL, 357,000 # 20/40 Brady / 8579 BBLs Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 37 BPM/ 7,893 PSI Acid on form @ 37 BPM/ 6,993 PSI Acid cleared @ 55 BPM/ 7,620 PSI</p> <p>Avg rate: 67 BPM Avg PSI: 7686.0</p> <p>Max BPM 80 Max PSI: 8240</p> <p>ISIP: 4049 PSI FG .89</p> <p>FTR: 8578 BBLS LTR Total: 46,001 BBLS SIF: 357,000 # Total SIF: 1,410,180 #</p> <p>Note-Due to high well pressure, Didn't shut down for a pad ISIP. PPS had problems maintaining rate during pad due to pump issues. Maintaining 70 bpm @ 8,000 psi on pad. Started 15# system 1,600 bbls into pad. Once we recieved a good viscous fluid, decided to send a .25# slug to see how it would effect the pressure before starting sand. Sand hit formation, pressure dropped 300 psi. started sand at .25# and ramped it up as pressure would allow.</p> |

Report #: 16 Daily Operation: 9/27/2013 06:00 - 9/28/2013 06:00

| | | | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|--|--|----------------------|--|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | | AFE Number 027691 | |
| Days From Spud (days) 97 | Days on Location (days) 14 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | | | |

Operations Summary

Rih w/ E&P wireline set cfp, had miss fire, pooh no guns shot, Founf bad switches. // Rih perf stg #7.
Currently pumping stage 7 at report time.

Remarks

PPS Downtime: 3.0 Hrs Cum: 9.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 47,240 bbls

RT: 0 bbls

CR: 2,805 bbls

LTR: 44,435 bbls

TSIF: 1,410,180 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|------------------|--|-----------|---|
| 9/27/2013 06:00 | 9/27/2013 09:00 | 3 | COMPL_UNPLN D | Perf gun did not fire - Time to POOH to back on bt | U_PERF | <p>RU E&P WL for stage #7 of 33. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 16,966' Guns didnt fire. POOH, RD WL.</p> <p>Pump Down @ 18 bpm / 6,660 psi. Line Speed 277 ft/min</p> <p>Used 457 bbls</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|--|
| 9/27/2013 09:00 | 9/27/2013 11:00 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for stage #7 of 33. Perforated Intervals: 16,695-16,697 / 16,755-16,757 / 16,815-16,817 / 16,875-16,877 / 16,935-16,937 w/ 60 deg phased, 25 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL. Pump Down @ 18 bpm / 4,900 psi. Line Speed 277 ft/min Used 782 bbls LTR Total 47,240 Bbls |
| 9/27/2013 11:00 | 9/28/2013 04:30 | 17.5 | COMPL | Other operations | OTHR | Waiting on frac ops on #12 and #13 |
| 9/28/2013 04:30 | 9/28/2013 06:00 | 1.5 | COMPL | Frac | STIM | Frac Ops on stage 7 at report time |

Report #: 17 Daily Operation: 9/28/2013 06:00 - 9/29/2013 06:00

| | | | | | | | | |
|---------------------------------|-------------------------|-------------------|-------------------------|-------------------------|---|--|----------------------|--|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | | AFE Number 027691 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | | |
| 98 | 15 | 18,825.5 | -26.5 | | PIONEER PUMPING SERVICES, SWAT Fleet #1 | | | |

Operations Summary

Frac Stages 8 thru 9
Perf Stages 8 thru 10

Held 1,500 psi on the intermediate casing

Remarks

PPS Downtime: 5.0 Hrs Cum: 11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 71,051 bbls

RT: 0 bbls

CR: 2,805 bbls

LTR: 68,246 bbls

TSIF: 2,479,635 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|-----------------|-----------|---|
| 9/28/2013 06:00 | 9/28/2013 07:00 | 1 | COMPL | Frac | STIM | Frac Stage # 7 of 33. Test stack to 8,500 PSI , Frac perfs as proposed W/ 37 bbls. 15% HCL 357,489 # 20/40 Brady / 7675 BBLS Hybrid fluid, down 5.5' CSG Formation broke @ 20 BPM/ 4,763 PSI Acid on form @ 30 BPM/ 5,556 PSI Acid cleared @ 60 BPM/ 6,174 PSI Pad ISIP: 3,949 PSI Avg rate: 72.5 BPM Avg PSI: 7296 Max rate: 80.0 BPM Max PSI: 8458 ISIP: 3601 PSI FG .84 FTR: 7675 BBLS LTR Total: 54,915 BBLS SIF: 357,489 # Total SIF: 1,410.669# |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 9/28/2013 07:00 | 9/28/2013 09:00 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for stage #8 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 16,666' Perforated Intervals: 16,637-16,635 / 16,577-16,575 / 16,517-16,515 / 16,457-16,455 / 16,397-16,395 w/ 60 deg phased, 25 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL. Pump Down @ 18 bpm / 6450 psi. Line Speed 310 ft/min Used 451 bbls LTR Total 55,366 Bbls |
| 9/28/2013 09:00 | 9/28/2013 14:15 | 5.25 | COMPL | Other operations | OTHR | Wait on frac operations on the 13H & 12H. |
| 9/28/2013 14:15 | 9/28/2013 16:15 | 2 | COMPL | Frac | STIM | Frac Stage # 8 of 33. Test stack to 8,500 PSI , Frac perfs as proposed W/ 37 bbls. 15% HCL 356,228 # 20/40 Brady / 7465 BBLS Hybrid fluid, down 5.5' CSG Formation broke @ 20 BPM/ 5,164 PSI Acid on form @ 30 BPM/ 7,754 PSI Acid cleared @ 60 BPM/ 6,474 PSI Pad ISIP: 3,979 PSI Avg rate: 68 BPM Avg PSI: 7484 Max rate: 80.0 BPM Max PSI: 8441 ISIP: 3979 PSI FG .87 PSI/FT FTR: 7465 BBLS LTR Total: 62,831 BBLS SIF: 356,228 # Total SIF: 1,766,897# |
| 9/28/2013 16:15 | 9/28/2013 18:15 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for stage #9 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 16,366' Perforated Intervals: 16,337-16,335 / 16,277-16,275 / 16,217-16,215 / 16,157-16,155 / 16,097-16,095 w/ 60 deg phased, 25 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL. Pump Down @ 18 bpm / 6500 psi. Line Speed 330 ft/min Used 424 bbls LTR Total 60,450 Bbls |
| 9/28/2013 18:15 | 9/28/2013 23:15 | 5 | COMPL | Other operations | OTHR | Wait on frac operations on the 13H & 12H. Also waited on sand to be unloaded |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 9/28/2013 23:15 | 9/29/2013 01:15 | 2 | COMPL | Frac | STIM | <p>Frac Stage # 9 of 33. Test stack to 8,500 PSI , Frac perfs as proposed W/ 21 bbls. 15% HCL 355,738 # 20/40 Brady / 7,419 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4,694 PSI Acid on form @ 30 BPM/ 6,305 PSI Acid cleared @ 60 BPM/ 6,308 PSI</p> <p>Pad ISIP: 4,009 PSI</p> <p>Avg rate: 72 BPM Avg PSI: 7,253 Max rate: 80.0 BPM Max PSI: 7,557</p> <p>ISIP: 3,779 PSI FG .86</p> <p>FTR: 7,419 BBLS LTR Total: 70,674 BBLS SIF: 355,738 # Total SIF: 2,479,635 #</p> <p>Note-(Rate 75 bpm)Ran15# x-link for pad at .5 gpt on x-linker.Ramped up x-linker to .8 gpt before the 1# stage.Ramped up x-linker to 1 gpt before the 1.5# stage.Ramped up x-linker to 1.2 gpt before the 2# stage.Ran 1.2 gpt throughout the remainder of the sand stages.</p> |
| 9/29/2013 01:15 | 9/29/2013 03:45 | 2.5 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for stage #10 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 16,066' Perforated Intervals: 16,037-16,035 / 15,977-15,975 / 15,917-15,915 / 15,857-15,855 / 15,797-15,795 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL.</p> <p>Pump Down @ 18 bpm / 6,350 psi. Line Speed 350 ft/min</p> <p>Used 377 bbls LTR Total 68,246 Bbls</p> |
| 9/29/2013 03:45 | 9/29/2013 06:00 | 2.25 | COMPL | Other operations | OTHR | Wait on frac operations on the 13H & 12H at report time |

Report #: 18 Daily Operation: 9/29/2013 06:00 - 9/30/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 99 | Days on Location (days) 16 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Frac Stages 10 thru 11
Perf Stages 11 thru 12

Held 1,500 psi on the intermediate casing

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 86,584 bbls

RT: 0 bbls

CR: 2,805 bbls

LTR: 83,779 bbls

TSIF: 3,193,978 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|------------------|-----------|--|
| 9/29/2013 06:00 | 9/29/2013 07:15 | 1.25 | COMPL | Other operations | OTHR | Wait on frac operations on the 13H & 12H |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|---------------|---|-----------|---|
| 9/29/2013 07:15 | 9/29/2013 12:15 | 5 | COMPL_UNPLN D | Unplanned time due to PXD pumping services` | U_PEPX D | Waiting on sand. |
| 9/29/2013 12:15 | 9/29/2013 14:15 | 2 | COMPL | Frac | STIM | <p>Frac Stage # 10 of 33. Test stack to 8,500 PSI , Frac perms as proposed W/ 51 bbls. 15% HCL 356,567 # 20/40 Brady / 7,446 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 5281 PSI Acid on form @ 30 BPM/ 6821 PSI Acid cleared @ 60 BPM/ 5518 PSI</p> <p>Pad ISIP: 4019 PSI</p> <p>Avg rate: 74 BPM Avg PSI: 7129 Max rate: 80.0 BPM Max PSI: 8463</p> <p>ISIP: 4241 PSI FG .91</p> <p>FTR: 7446 BBLS LTR Total: 75,692 BBLS SIF: 356,567 # Total SIF: 2,836,202 #</p> |
| 9/29/2013 14:15 | 9/29/2013 16:15 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for stage #11 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 15,766' Perforated Intervals: 15,737-15,735 / 15,677-15,675 / 15,617-15,615 / 15,557-15,555 / 15,497-15,495 w/ 60 deg phased, 25 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL.</p> <p>Pump Down @ 18 bpm / 6050 psi. Line Speed 300 ft/min</p> <p>Used 416 bbls LTR Total 78,915 Bbls</p> |
| 9/29/2013 16:15 | 9/29/2013 21:30 | 5.25 | COMPL | Other operations | OTHR | Wait on frac operations on the 13H & 12H |
| 9/29/2013 21:30 | 9/29/2013 23:30 | 2 | COMPL | Frac | STIM | <p>Frac Stage # 11 of 33. Test stack to 8,500 PSI , Frac perms as proposed W/ 28 bbls. 15% HCL 357,776 # 20/40 Brady / 7,314 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4,612 PSI Acid on form @ 30 BPM/ 5,341 PSI Acid cleared @ 60 BPM/ 5,955 PSI</p> <p>Pad ISIP: 3,835 PSI</p> <p>Avg rate: 74 BPM Avg PSI: 6,975 Max rate: 80.0 BPM Max PSI: 7,385</p> <p>ISIP: 3,622 PSI FG .84</p> <p>FTR: 7,314 BBLS LTR Total: 83,424 BBLS SIF: 357,776 # Total SIF: 3,193,978 #</p> |
| 9/29/2013 23:30 | 9/30/2013 01:30 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for stage #12 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 15,466' Perforated Intervals: 15,437-15,435 / 15,377-15,375 / 15,317-15,315 / 15,257-15,255 / 15,197-15,195 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL.</p> <p>Pump Down @ 18 bpm / 5,900 psi. Line Speed 350 ft/min</p> <p>Used 355 bbls LTR Total 83,779 Bbls</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|------------------|-----------|---|
| 9/30/2013 01:30 | 9/30/2013 06:00 | 4.5 | COMPL | Other operations | OTHR | Wait on frac operations on the 13H & 12H at report time |

Report #: 19 Daily Operation: 9/30/2013 06:00 - 10/1/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 100 | Days on Location (days) 17 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Waited on Clean Out Ops W/ Coil Tubing on #12H

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 86,584 bbls

RT: 0 bbls

CR: 2,805 bbls

LTR: 83,779 bbls

TSIF: 3,193,978 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|------------------|-----------|---------------------------------|
| 9/30/2013 06:00 | 10/1/2013 06:00 | 24 | COMPL | Other operations | OTHR | Waited on Clean Out Ops on #12H |

Report #: 20 Daily Operation: 10/1/2013 06:00 - 10/2/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 101 | Days on Location (days) 18 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Waited on Clean Out Ops W/ Coil Tubing on #12H

Remarks

WSI

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|------------------|-----------|---------------------------------|
| 10/1/2013 06:00 | 10/2/2013 06:00 | 24 | COMPL | Other operations | OTHR | Waited on Clean Out Ops on #12H |

Report #: 21 Daily Operation: 10/2/2013 06:00 - 10/3/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 102 | Days on Location (days) 19 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Waited on Clean Out Ops W/ Coil Tubing on #12H

Frac stg 12

Perf Stg 13

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 94,437 bbls

RT: 0 bbls

CR: 2,805 bbls

LTR: 91,632 bbls

TSIF: 3,552,062 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|--|-----------|---|
| 10/2/2013 06:00 | 10/2/2013 23:30 | 17.5 | PROD1 | OTHER | WSI | Waited on Clean Out Ops on #12H |
| 10/2/2013 23:30 | 10/3/2013 01:30 | 2 | COMPL | Frac | STIM | <p>Frac Stage # 12 of 33. Test stack to 8,500 PSI , Frac perms as proposed W/ 41 bbls. 15% HCL</p> <p>358,084# 20/40 Brady / 7483 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 3850 PSI</p> <p>Acid on form @ 20 BPM/ 7,551 PSI</p> <p>Acid cleared @ 40 BPM/ 7,155 PSI</p> <p>Pad ISIP: 3,850 PSI</p> <p>Avg rate: 80 BPM Avg PSI: 7245</p> <p>Max rate: 80.0 BPM Max PSI: 8478</p> <p>ISIP: 3,4176 PSI FG .91</p> <p>FTR: 7,483 BBLS LTR Total: 94,067 BBLS</p> <p>SIF: 358,084 # Total SIF: 3,552,062 #</p> |
| 10/3/2013 01:30 | 10/3/2013 04:00 | 2.5 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for stage #13 of 33. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 15,166' Perforated Intervals: 14,895-14,897' / 14,955 - 957 / 15,015- 017 / 15,075- 077 / 15,135-137 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POH, RD WL.</p> <p>Pump Down @ 18 bpm / 5,900 psi. Line Speed 350 ft/min</p> <p>Used 370 bbls</p> <p>LTR Total 91,632 Bbls</p> |
| 10/3/2013 04:00 | 10/3/2013 06:00 | 2 | PROD1 | OTHER | WSI | Wait to Frac stg 13 |

Report #: 22 Daily Operation: 10/3/2013 06:00 - 10/4/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------|-------------------|-------------------------|------------------------|---|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 103 | 20 | 18,825.5 | -26.5 | | PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Frac Stage 13 of 33
 Perf Stage 14 of 33
 Wait on Frac and wireline ops for the University 2-20 12/13H
 Frac Stage 14 of 33
 Perf & Frac Stg 15
 Well SI

Remarks

PPS Downtime: 0.0 Hrs Cum: 11.5 Hrs
 Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
 E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
 RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 118,460 bbls

RT: 730 bbls

CR: 3,535 bbls

LTR: 114,925 bbls

TSIF: 4,586,798 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|--|
| 10/3/2013 06:00 | 10/3/2013 09:00 | 3 | COMPL | Frac | STIM | <p>FRAC STG #13 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 49 bbls 15% HCL, 358,301lbs.20/40 brown sand& 7420 bbls of hybrid fluid linear/xlink down 5.5" csg</p> <p>Formation broke @ 20 bpm @ 5105psi. Acid on form @ 20 bpm @ 6541 psi. Acid cleared @ 50 bpm @ 7355 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,286 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Pumped 3 ppa.20/40 SLC. Flushed well with 358,301 bbls. Ending rate 80 bpm @7200 psi. Placed 100% prop in formation.</p> <p>Avg rate: 71 bpm Avg psi:7292 psi Max rate:80 bpm Max psi: 7668psi</p> <p>Pad ISIP: 4027 psi FG: 0.88 psi/ft ISIP:3384 psi FG:0.896 psi/ft</p> <p>FTR= 7420 bbls LTR= 99,052 bbls SIF= 358,301 lbs. TSIF= 3,910,363 lbs.</p> |
| 10/3/2013 09:00 | 10/3/2013 11:00 | 2 | COMPL | Other operations | OTHR | Well shut in Waiting on Univ 2-20 #12&13H ops |
| 10/3/2013 11:00 | 10/3/2013 13:00 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU Arklatex WL for Stage # 14. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 14,866 '. Perforate intervals : 14,595' -14,597',14,655' -14,657',14,715' - 14,717', 14,775 - 14,777 & 14,835' -14,837' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5850 psi. Line speed 350 ft/min.</p> <p>Used 407 bbls FTR: 99,459 bbls</p> |
| 10/3/2013 13:00 | 10/3/2013 15:00 | 2 | COMPL | Other operations | OTHR | Waiting on Frac Ops. |
| 10/3/2013 15:00 | 10/3/2013 17:00 | 2 | STIM | FRAC | STIM | <p>FRAC STG # 14 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 47 bbls 15% HCL, 358,921 lbs.20/40 brown sand, & 7471 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4986 psi. Acid on form @ 20 bpm @ 5880 psi. Acid cleared @ 50 bpm @ 6090 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,429bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Pumped 3 ppa.20/40 SLC. Flushed well with 421 bbls. Ending rate 80 bpm @7200 psi. Placed 100% prop in formation.</p> <p>Avg rate:72 bpm Avg psi:7322 psi Max rate:80 bpm Max psi: 7552psi</p> <p>Pad ISIP: 3938 psi FG: 0.878 psi/ft ISIP:3408 psi FG:0.818 psi/ft</p> <p>FTR= 7471 bbls LTR= 106,930 bbls SIF= 358,921 lbs. TSIF= 4,269,284 lbs.</p> |
| 10/3/2013 17:00 | 10/3/2013 18:00 | 1 | PROD1 | OTHER | WSI | Wait on Wire line ops for Univ 2-20 #13 H |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 10/3/2013 18:00 | 10/3/2013 20:00 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 15. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 14,566'. Perforate intervals : 14,295' -14,297', 14,355' -14,357', 14,415' -14,417', 14,475 - 14,477 & 14,535' -14,537' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 12 bpm / 6700 psi. Line speed 300 ft/min. Used 320 bbls FTR: 110,055 bbls |
| 10/3/2013 20:00 | 10/3/2013 22:00 | 2 | COMPL | Other operations | OTHR | Well shut in Waiting on Univ 2-20 #12&13H ops |
| 10/3/2013 22:00 | 10/4/2013 03:00 | 5 | STIM | FRAC | STIM | FRAC STG # 15 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 47 bbls 15% HCL, 317,514 lbs.20/40 brown sand, & 8404 bbls of hybrid fluid linear/xlink down 5.5" csg. Formation broke @ 20 bpm @ 5673 psi. Acid on form @ 20 bpm @ 7880 psi. Acid cleared @ 50 bpm @ 6490 psi. Increased rate to 80 bpm. Pumped 2,429 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Pumped 3 ppa.20/40 SLC. Flushed well with 421 bbls. Ending rate 80 bpm @ 7200 psi. Placed 89% prop in formation. Note: On 1.50 PPG Xlink flds, had drop 60 bpm @ 8790 psi, well spiked to 9444 psi kicked all pumps out, Flushed well, resume frac, cut snd on 3PPG down to 55 bpm @ 9100 psi, did not flush well due psi. pumped into well @ 7bpm @ 9100 psi.// RU Flowed 300 bbls back to FB tank 1-HR, open choke, switched to gut line finshed flowback @ 800 psi open 2" valve. Ru Flushed well w/ 243 bbls, @ 40 bpm w/ 9400 psi. Ru flowback, SD opened up and flowed 430 bbls on an open choke. Attempted flushing wellbore pumping 5 BPM @ 8,751 psi. Avg rate:74 bpm Avg psi:76847 psi Max rate:80 bpm Max psi: 9444 psi Pad ISIP: 3918 psi FG: 0.878 psi/ft ISIP:N/A FG:N/A psi/ft FTR= 8515 bbls LTR= 118,460 bbls SIF= 317,514 lbs. TSIF= 4,586,798 lbs. |
| 10/4/2013 03:00 | 10/4/2013 06:00 | 3 | PLAN | PERS | SDFN | Well Shut in. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 23 Daily Operation: 10/4/2013 06:00 - 10/5/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 104 | Days on Location (days) 21 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Flowed Well back after Screen out
Re-flushed wellbore. Pumped 2 casing volumes
Perf & Frac stg 16.
Begin Stg 17 Frac, continued on next days report.

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 128,537 bbls

RT: 0 bbls

CR: 3,535 bbls

LTR: 125,002 bbls

TSIF: 4,843,320 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|--|
| 10/4/2013 06:00 | 10/4/2013 16:00 | 10 | COMPL | Flow back | FLWTST | Flowed well back to clean up wellbore |
| 10/4/2013 16:00 | 10/4/2013 17:30 | 1.5 | COMPL | Formation Injection Test | FIT | Pumped 3 casing volumes to clean up wellbore after screen out FTR: 120,454 RT: 1,408 CR: 3,535 LTR: 116,919 |
| 10/4/2013 17:30 | 10/4/2013 19:30 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 16. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 14,266'. Perforate intervals : 14,235' - 237', 14,175' - 177', 14,115' - 117' & 14,055' - 057' & 13,995' - 997' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5,670 psi. Line speed 290 ft/min. Used 291 bbls FTR: 117,210 bbls |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------|--|-----------|--|
| 10/4/2013 19:30 | 10/4/2013 21:30 | 2 | COMPL | Frac | STIM | <p>FRAC STG # 16 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 50 bbls 15% HCL, 356,522 lbs.20/40 brown sand, & 7,527 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4,987 psi. Acid on form @ 20 bpm @ 5,411 psi. Acid cleared @ 80 bpm @ 6,836 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,429 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Pumped 3 ppa.20/40 SLC. Flushed well with 431 bbls. Ending rate 80 bpm @ 6,044 psi. Placed 100% prop in formation.</p> <p>Avg rate:80 bpm Avg psi: 6,512 psi Max rate:90 bpm Max psi: 7,326 psi</p> <p>Pad ISIP: 3,811 psi ISIP: 3,317 psi FG:.81 psi/ft</p> <p>FTR= 7,527 bbls LTR= 124,737 bbls SIF= 356,522 lbs. TSIF= 4,843,320 lbs.</p> |
| 10/4/2013 21:30 | 10/4/2013 23:30 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 17. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 13,966'. Perforate intervals : 13,935' - 937', 13,875' - 877', 13,815' - 817' & 13,755' - 757' & 13,695' - 697' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 4,960 psi. Line speed 290 ft/min.</p> <p>Used 265 bbls FTR: 125,002 bbls</p> |
| 10/4/2013 23:30 | 10/5/2013 05:00 | 5.5 | UNPLANNED | Waiting on anything other than weather (orders, eq | U_WT | Waiting to Frac |
| 10/5/2013 05:00 | 10/5/2013 06:00 | 1 | COMPL | Frac | STIM | Begin Stg17 Frac, continued on next days report. |

Report #: 24 Daily Operation: 10/5/2013 06:00 - 10/6/2013 06:00

| | | |
|-----------------|------------------|------------|
| Job Category | Primary Job Type | AFE Number |
| ORIG COMPLETION | OCM | 027691 |

| | | | | | |
|-----------------------|-------------------------|-------------------|-------------------------|------------------------|---|
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig |
| 105 | 22 | 18,825.5 | -26.5 | | PIONEER PUMPING SERVICES, SWAT Fleet #1 |

Operations Summary

Frac stgs 17 of 33.
Perf Stage 18 ,
Frac Stage 18
Perf stage 19

Begin Frac on Stg 19 @ Report Time.

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 146,506bbls

RT: 0 bbls

CR: 3,535 bbls

LTR: 142,971 bbls

TSIF: 4,843,320 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 10/5/2013 06:00 | 10/5/2013 08:15 | 2.25 | COMPL | Frac | STIM | <p>FRAC STG # 17 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 50 bbls 15% HCL, 364,999 lbs.20/40 brown sand, & 7,543 bbls of hybrid fluid linear/xlink down 5.5" csg. Open well @ 06:15 hrs. WHP: 2745psi.</p> <p>Formation broke @ 20 bpm @ 5452 psi. Acid on form @ 20 bpm @ 6893 psi. Acid cleared @ 80 bpm @ 5484 psi.</p> <p>Avg rate:80 bpm Avg psi: 6824 psi Max rate: 69.4 bpm Max psi: 7055 psi</p> <p>Pad ISIP: 3765 psi FG: .86 psi/ft ISIP: 3329 psi FG: .81 psi/ft</p> <p>FTR= 7543 bbls LTR= 132,545 bbls SIF= 364,999 lbs. TSIF= 5,208,319 lbs.</p> |
| 10/5/2013 08:15 | 10/5/2013 10:15 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 18. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 13,661'. Perforate intervals : 13,635 - 13,637 / 13,575 - 13,577 / 13,515 - 13,517 / 13,455 - 13,457 / 13,395 - 13,397' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5550 psi. Line speed 340 ft/min.</p> <p>Used 284 bbls FTR: 132,829 bbls</p> |
| 10/5/2013 10:15 | 10/5/2013 16:15 | 6 | PROD1 | OTHER | WSI | Well Shut in waiting on 12/13H OPS |
| 10/5/2013 16:15 | 10/5/2013 20:15 | 4 | COMPL | Frac | STIM | <p>FRAC STG #18of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 52 bbls 15% HCL, 356,770lbs.20/40 brown sand & 9,885 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4663 psi. Acid on form @ 40 bpm @ 5751psi. Acid cleared @ 60 bpm @ 6100 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,286 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 390 bbls. Ending rate 80 bpm @ 6122 psi. Placed 100% prop in formation.</p> <p>Note: 1.50 ppg ramp had flush well due psi, ramped back up to 60 bpm @ 8010 psi,3" flushed well, repair- Isolation valve, Bull plugged, Repair sand belt, Resume Frac & finished.</p> <p>Avg rate: 73 bpm Avg psi:6502 psi Max rate:80 bpm Max psi: 8730 ps</p> <p>Pad ISIP: 3741 psi FG: 0.85 psi/ft ISIP:3967 psi FG:0.88 psi/ft</p> <p>Frac- 9887 bbls FTR 146,251 CR= 3535 bbls LTR 142,716 bbls</p> <p>SIF=356,770 lbs. TSIF= 5,565,089 lbs.</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|-----------|--|-----------|--|
| 10/5/2013 20:15 | 10/5/2013 22:15 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 19. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 13,366'. Perforate intervals : 13,335 - 13,337/ 13,275 - 13,277 / 13,215 - 13,217 / 13,155 - 13,157 / 13,095 - 13,097' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 6000 psi. Line speed 340 ft/min. Used 255 bbls FTR: 132,908 bbls |
| 10/5/2013 22:15 | 10/6/2013 05:15 | 7 | UNPLANNED | Waiting on anything other than weather (orders, eq | U_WT | Well Shut in waiting on 12/13H OPS |
| 10/6/2013 05:15 | 10/6/2013 06:00 | 0.75 | UNPLANNED | Waiting on anything other than weather (orders, eq | U_WT | Begin Frac @ report time Stg 19. |

Report #: 25 Daily Operation: 10/6/2013 06:00 - 10/7/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 106 | Days on Location (days) 23 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Frac stgs 19 of 33.
Perf Stage 20
Frac Stage 20
Perf stage 21

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 161,786 bbls

RT: 0 bbls

CR: 3,535 bbls

LTR: 158,251 bbls

TSIF: 6,278,884 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|--|
| 10/6/2013 06:00 | 10/6/2013 08:00 | 2 | COMPL | Frac | STIM | <p>FRAC STG #19 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 55 bbls 15% HCL, 357,107 lbs.20/40 brown sand & 7463 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4822 psi. Acid on form @ 40 bpm @ 6200psi. Acid cleared @ 60 bpm @ 6708 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,429 bbl pad. Stair stepped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 386 bbls. Ending rate 80 bpm @6800 psi. Placed 100% prop in formation.</p> <p>Avg rate: 71 bpm Avg psi:6942 psi Max rate:80 bpm Max psi: 7160psi</p> <p>Pad ISIP: 3907 psi FG: 0.88 psi/ft ISIP:3521 psi FG:0.831 psi/ft</p> <p>SFTR= 7463 bbls FTR= 153,969 bbls CR= 3535 LTR=150,434</p> <p>SIF= 357,107 lbs. TSIF= 5,922,196 lbs.</p> |
| 10/6/2013 08:00 | 10/6/2013 09:30 | 1.5 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 20. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 13,066'. Perforate intervals : 12,795' -12797', 12,855' - 12,857', 12,915' -12,917',12,975' - 12,977' &13,035' - 13,037' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5200psi. Line speed 300 ft/min.</p> <p>Used 217 bbls FTR: 154,186 bbls CR: 3535 LTR: 150,651BBLs</p> |
| 10/6/2013 09:30 | 10/6/2013 19:30 | 10 | COMPL | Additional dirtwork needed on location | DRTWRK | Well Shut in Waiting on 12/13H OPS |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|---------------------|-----------|---|
| 10/6/2013 19:30 | 10/6/2013 21:30 | 2 | COMPL | Frac | STIM | <p>FRAC STG #20 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 74 bbls 15% HCL, 356,688lbs.20/40 brown sand & 7379 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4822 psi. Acid on form @ 40 bpm @ 6200psi. Acid cleared @ 60 bpm @ 6708 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,429 bbl pad. Stair stepped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 378 bbls. Ending rate 80 bpm @6800 psi. Placed 100% prop in formation.</p> <p>Avg rate: 77 bpm Avg psi:6519 psi Max rate:80 bpm Max psi: 7563psi</p> <p>Pad ISIP: 3894 psi FG: 0.87 psi/ft ISIP:3399 psi FG:0.81 psi/ft</p> <p>FTR= 7379 bbls CR= 3535 LTR=158,215</p> <p>SIF= 356,688 lbs. TSIF= 6,278,884 lbs.</p> |
| 10/6/2013 21:30 | 10/6/2013 23:30 | 2 | COMPL | Other operations | OTHR | <p>RU E&P WL for Stage # 21 RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 12,766'. Perforate intervals : 12,735' -12737', 12,675' - 12,677', 12,615' -12,617',12,555' - 12,557' &12,495' - 12,497' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5,500psi. Line speed 300 ft/min.</p> <p>Used 232 bbls FTR: 161,786 bbls CR: 3535 LTR: 158,251 BBLs</p> |
| 10/6/2013 23:30 | 10/7/2013 06:00 | 6.5 | COMPL | Shut down for night | SDFN | Well Shut in Waiting on 12/13H OPS |

Report #: 26 Daily Operation: 10/7/2013 06:00 - 10/8/2013 06:00

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|--|-------------------------|-------------------|--------------------------------|------------------------|---|-----------------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 107 | 24 | 18,825.5 | -26.5 | | PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Frac Stage 21
Perf Stage 22
Frac Stage 22
Perf Stage 23
Frac Stage 23

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 184,594

RT: 0 bbls

CR: 3,535 bbls

LTR: 181,059

TSIF: 7,249,771 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|--|
| 10/7/2013 06:00 | 10/7/2013 08:15 | 2.25 | COMPL | Frac | STIM | <p>FRAC STG #21 of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 46 bbls 15% HCL, 356,063 lbs.20/40 brown sand & 7411 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 5082 psi. Acid on form @ 40 bpm @ 6181psi. Acid cleared @ 60 bpm @ 7074 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,429 bbl pad. Stair stepped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 372 bbls. Ending rate 80 bpm @ 6200psi. Placed 100% prop in formation.</p> <p>Avg rate: 74 bpm Avg psi:6587 psi Max rate:80 bpm Max psi: 8025psi</p> <p>Pad ISIP: 3958 psi FG: 0.881 psi/ft ISIP:3595 psi FG:0.84 psi/ft</p> <p>SFTR= 7411 bbls FTR= 169,197 bbls CR= 3535 LTR=165,662</p> <p>SIF= 356063 lbs. TSIF= 6,534,947 lbs.</p> |
| 10/7/2013 08:15 | 10/7/2013 10:00 | 1.75 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 22. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 12,466 '. Perforate intervals : 12,195' -12,197',12,255' -12,257',12,315' - 12,317',12,375' - 12,377' &12,435' -12,437' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5350psi. Line speed 300 ft/min.</p> <p>Used 208 bbls FTR: 169,405 bbls CR: 3535 LTR: 165,870</p> |
| 10/7/2013 10:00 | 10/7/2013 16:00 | 6 | PROD1 | OTHER | WSI | Well Shut in waiting on 12/13H OPS |
| 10/7/2013 16:00 | 10/7/2013 18:00 | 2 | COMPL | Frac | STIM | <p>FRAC STG #22 of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 46 bbls 15% HCL, 357,332 lbs.20/40 brown sand & 7515 bbls of hybrid fluid linear/xlink down 5.5" csg. Open@16:10 hrs. and WHP@2940 PSI</p> <p>Formation broke @ 20 bpm @ 4797 psi. Acid on form @ 40 bpm @ 5555psi. Acid cleared @ 60 bpm @ 6844 psi.</p> <p>Avg rate: 71 bpm Avg psi:6757 psi Max rate:80 bpm Max psi: 7194 psi</p> <p>Pad ISIP: 3965 psi FG: 0.88 psi/ft ISIP:3204 psi FG:0.79 psi/ft</p> <p>SFTR= 7515 bbls FTR= 176,920 bbls CR= 3535 LTR=173,385</p> <p>SIF= 357,332 lbs. TSIF= 6,892,279 lbs.</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 10/7/2013 18:00 | 10/7/2013 20:00 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 23. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 12,166'. Perforate intervals : 12,135' -12,137', 12,075' -12,079', 12,015' - 12,017', 11,955' - 11,957' & 11,895' -11,897' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5500psi. Line speed 300 ft/min. Used 202 bbls FTR: 173,385 bbls CR: 3535 LTR: 173,385 |
| 10/7/2013 20:00 | 10/8/2013 03:30 | 7.5 | COMPL | Other operations | OTHR | Well Shut in waiting on 12/13H OPS |
| 10/8/2013 03:30 | 10/8/2013 06:00 | 2.5 | COMPL | Frac | STIM | FRAC STG #23 of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 43bbls 15% HCL. 357,492 lbs.20/40 brown sand & 7472 bbls of hybrid fluid linear/xlink down 5.5" csg. Open@ 03:30 hrs. and WHP@ 2,797 PSI Formation broke @ 20 bpm @ 4931 psi. Acid on form @ 40 bpm @ 4500 psi. Acid cleared @ 60 bpm @ 5310 psi. Avg rate: 77 bpm Avg psi:6328 psi Max rate:90 bpm Max psi: 7757 psi Pad ISIP: 3,801psi FG: 0.87 psi/ft ISIP:3669 psi FG:0.85 psi/ft SFTR= 7472bbls FTR= 180,857 bbls CR= 3535 LTR=173,385 SIF= 357,492 lbs. TSIF= 7,249,771 lbs. |

Report #: 27 Daily Operation: 10/8/2013 06:00 - 10/9/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 108 | Days on Location (days) 25 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Perf Stage 24
Frac Stage 24
Perf Stage 25
Frac Stage 25
Perf Stage 26 Mis- run Pooh @ Report Time

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 196,367

RT: 0 bbls

CR: 3,535 bbls

LTR: 199,902

TSIF: 7,963,163 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 10/8/2013 06:00 | 10/8/2013 08:00 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 24 . RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 11,866' . Perforate intervals : 11,595' - 11,597', 11,655' - 11,657', 11,715' - 11,717', 11,775' - 11,777' & 11,835' - 11,837' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5,300 psi. Line speed 340 ft/min. Used 177 bbls FTR: 181,034 bbls |
| 10/8/2013 08:00 | 10/8/2013 14:00 | 6 | COMPL | Other operations | OTHR | Waiting on frac ops |
| 10/8/2013 14:00 | 10/8/2013 16:45 | 2.75 | COMPL | Frac | STIM | FRAC STG # 24 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 51 bbls 15% HCL, 356,756 lbs.20/40 brown sand & 7,382 bbls of hybrid fluid linear/xlink down 5.5" csg. Formation broke @ 20 bpm @ 4,699 psi. Acid on form @ 20 bpm @ 7,216 psi. Acid cleared @ 50 bpm @ 6,399 psi. Increased rate to 80 bpm. Pumped 2,286 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Pumped 3 ppa.20/40 SLC. Flushed well with 351 bbls. Ending rate 80 bpm @ 6,696 psi. Placed 100% prop in formation. Avg rate: 71 bpm Avg psi: 6,873 psi Max rate:80 bpm Max psi: 7,514psi Pad ISIP: 3,776 psi FG: 0.86 psi/ft ISIP:4,052 psi FG:0.89 psi/ft FTR= 7,382 bbls LTR= 188,416 bbls SIF= 356,756 lbs. TSIF= 7,606,527 lbs. |
| 10/8/2013 16:45 | 10/8/2013 17:45 | 1 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 25. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 11,566' . Perforate intervals : 11,595' - 11,597', 11,655' - 11,657', 11,715' - 11,717', 11,775' - 11,777' & 11,835' - 11,837' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 12 bpm / 5100 psi. Line speed 18 ft/min. Used 164 bbls FTR: 188,782 bbls |
| 10/8/2013 17:45 | 10/9/2013 00:45 | 7 | COMPL | Other operations | OTHR | Waiting to frac. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|--|-----------|---|
| 10/9/2013 00:45 | 10/9/2013 02:45 | 2 | COMPL | Frac | STIM | <p>FRAC STG # 25 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 53 bbls 15% HCL, 356,636 lbs.20/40 brown sand & 7,445 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4927 psi. Acid on form @ 40 bpm @ 6700 psi. Acid cleared @ 50 bpm @ 5400 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,286 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Pumped 3 ppa.20/40 SLC. Flushed well with 342 bbls. Ending rate 80 bpm @ 5955 psi. Placed 100% prop in formation.</p> <p>Avg rate: 76 bpm Avg psi: 6749 psi Max rate:80 bpm Max psi: 7710 psi</p> <p>Pad ISIP: 3937 psi FG: 0.89 psi/ft ISIP:3589 psi FG:0.84 psi/ft</p> <p>FTR= 7445 bbls LTR= 196,227 bbls SIF= 356,636 lbs. TSIF= 7,963,163 lbs.</p> |
| 10/9/2013 02:45 | 10/9/2013 06:00 | 3.25 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 26. RIH & pump down Baker CFP & 4 each 3.375" guns. Attempt to Set CFP @ 11,266' & Had mis-run, CFP not set. Pooh @ Report Time. Find & Repair Wireline Issues.</p> <p>Used 140 bbls FTR: 196,367 bbls</p> |

Report #: 28 Daily Operation: 10/9/2013 06:00 - 10/10/2013 06:00

| | | | | | |
|-----------------------|-------------------------|-------------------|-------------------------|------------------------|---|
| Job Category | Primary Job Type | | | | AFE Number |
| ORIG COMPLETION | OCM | | | | 027691 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig |
| 109 | 26 | 18,825.5 | -26.5 | | PIONEER PUMPING SERVICES, SWAT Fleet #1 |

Operations Summary

Frac Stage 26
Perf Stage 27
Frac Stage 27
Perf. Stage 28

Remarks

PPS Downtime: 0.0 Hrs Cum:11.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 216,230

RT: 0 bbls

CR: 3,535 bbls

LTR: 212,695

TSIF: 8,678,174 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|------------------|-----------|------------------|
| 10/9/2013 06:00 | 10/9/2013 13:00 | 7 | COMPL | Other operations | OTHR | Waiting to frac. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|--|-----------|---|
| 10/9/2013 13:00 | 10/9/2013 15:00 | 2 | COMPL | Frac | STIM | <p>FRAC STG # 26 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 55 bbls 15% HCL, 357,898 lbs.20/40 brown sand & 7,429 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4,989 psi. Acid on form @ 40 bpm @ 6,101 psi. Acid cleared @ 50 bpm @ 5,557 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,286 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Pumped 3 ppa.20/40 SLC. Flushed well with 337 bbls. Ending rate 80 bpm @ 6,064 psi. Placed 100% prop in formation.</p> <p>Avg rate: 71.4 bpm Avg psi: 7,122 psi Max rate:80 bpm Max psi: 7,752 psi</p> <p>Pad ISIP: 3,989 psi FG: 0.88 psi/ft ISIP: 3,759 psi FG:0.86 psi/ft</p> <p>FTR= 7,429 bbls LTR= 203,796 bbls SIF= 357,898 lbs. TSIF= 8,321,061 lbs.</p> |
| 10/9/2013 15:00 | 10/9/2013 16:30 | 1.5 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 27. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 10,966'. Perforate intervals : 10,935' - 10,937', 10,875' - 10,877', 10,815' - 10,817',10,755' - 10,757' & 10,695' - 10,697' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 5,700 psi. Line speed 349 ft/min.</p> <p>Used 117 bbls FTR: 203,913 bbls</p> |
| 10/9/2013 16:30 | 10/9/2013 23:45 | 7.25 | COMPL | Other operations | OTHR | Waiting to frac. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|--|-----------|--|
| 10/9/2013 23:45 | 10/10/2013 02:00 | 2.25 | COMPL | Frac | STIM | <p>FRAC STG #27 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 55 bbls 15% HCL, 357,113 lbs. 20/40 brown sand & 8682 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 5361 psi. Acid on form @ 40 bpm @ 5041 psi. Acid cleared @ 60 bpm @ 5671 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,286 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 328 bbls. Ending rate 80 bpm @ 6500 psi. Placed 100% prop in formation.</p> <p>Avg rate: 67 bpm Avg psi: 6868 psi Max rate: 80 bpm Max psi: 8012 psi</p> <p>Pad ISIP: 4009 psi FG: 0.88 psi/ft ISIP: 3370 psi FG: 0.81 psi/ft</p> <p>SFTR= 8682 bbls FTR= 216,130 bbls CR= 3535 LTR= 212,595</p> <p>SIF= 357,113 lbs. TSIF= 8,678,174 lbs.</p> <p>Note: Psi started increasing on 0.5# sand. Cut sand and over flushed well by 150 bbls. Shut down and got and ISIP 4323 with no water hammer. Started back pumping and ran a 15# gel with .8gpt xl. Ran a 1000# .5ppg sand slug and psi came down. So started back on 0.5ppg sand at 60bpm. Stepped sand back to 1ppg and pumped job at 75bpm with a 15# xl gel.</p> |
| 10/10/2013 02:00 | 10/10/2013 04:00 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 28. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 10,650'. Perforate intervals : 10,395' - 10,397', 10,455' - 10,457', 10,515' - 10,517', 10,575' - 10,577' & 10,635' - 10,637' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL. Pump down @ 12 bpm / 5200psi. Line speed 300 ft/min.</p> <p>Used 100 bbls FTR: 212,695 bbls</p> |
| 10/10/2013 04:00 | 10/10/2013 06:00 | 2 | COMPL | Other operations | OTHR | Waiting on Frac Ops. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 29 Daily Operation: 10/10/2013 06:00 - 10/11/2013 06:00

| | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|--|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 110 | Days on Location (days) 27 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 |

Operations Summary
Frac stage 28
Perf stage 28-B
Frac Stage 28-B
Perf Stage 29
Frac Stage 29

Remarks

PPS Downtime: 2.0 Hrs Cum:13.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 233,897

RT: 0 bbls

CR: 3,535 bbls

LTR: 230,362

TSIF: 9,442,594 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|------------------|------------------|----------|---------------|---|-----------|--|
| 10/10/2013 06:00 | 10/10/2013 13:00 | 7 | COMPL | Other operations | OTHR | Waiting to frac. |
| 10/10/2013 13:00 | 10/10/2013 14:45 | 1.75 | COMPL_UNPLN D | Unplanned time due to PXD pumping services` | U_PEPX D | E-tech put new software in pumps. Could not get get several to prime back up until issue was repaired. |
| 10/10/2013 14:45 | 10/10/2013 16:15 | 1.5 | COMPL | Frac | STIM | <p>FRAC STG #28 of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 83 bbls 15% HCL, 2,213 lbs.20/40 brown sand & 3,724 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 6,245 psi. Acid on form @ 40 bpm @ 7,425 psi. Acid cleared @ 60 bpm @ 7,620 psi.</p> <p>Increased rate to 74 bpm. Pumped 2,429 bbl pad. Pressure still on rise @ end of pad @ 8250 psi. Ran 20/40 brown sand 0.5 ppg slug for 95 bbls and psi never dropped. Came up to 9,000 psi.Flushed well with 410 bbls. Ending rate 52 bpm @8,800 psi. Placed 0% prop in formation. Per Engineer move up hole 5 ft and shoot 40 more holes and try frac stage 28-B</p> <p>Avg rate: 59.9 bpm Avg psi:7,746 psi Max rate:77 bpm Max psi: 9,000 psi</p> <p>Pad ISIP: 4303 psi FG: 0.92 psi/ft ISIP:4107 psi FG:0.91 psi/ft</p> <p>FTR= 3,724 bbls LTR=216,419 bbls</p> <p>SIF= 2,213 lbs. TSIF= 8,680,387 lbs.</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|--|-----------|---|
| 10/10/2013 16:15 | 10/10/2013 18:15 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 28-b for reperf. RIH & pump 3.375" guns. Perforate intervals : 10,559' -10,561', 10,555' - 10,557',10,510' -10,512',10,450' - 10,452' & 10,390' - 10,392' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 7700 psi. Line speed 300 ft/min. Used 335 bbls FTR: 220,579 bbls CR: 3535 LTR: 217,044 |
| 10/10/2013 18:15 | 10/10/2013 21:00 | 2.75 | COMPL | Other operations | OTHR | Waiting on Frac Ops. |
| 10/10/2013 21:00 | 10/10/2013 23:00 | 2 | COMPL | Frac | STIM | FRAC STG #28-B of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 70 bbls 15% HCL, 356,277 lbs.20/40 brown sand & 6557 bbls of hybrid fluid linear/xlink down 5.5" csg. Formation broke @ 20 bpm @ 4358 psi. Acid on form @ 40 bpm @ 7906 psi. Acid cleared @ 60 bpm @ 6642 psi. Pumped 1,563 bbl pad. Pressure @ 8000 psi. Ran 20/40 brown sand 0.5 ppg slug for 47 bbls and psi never dropped. Dropped Rate to 45 bpm @7841 psi and started the 0.5 ppa sand stage and ran to designed treatment schedule.Flashed well with 322 bbls. Ending rate 70 bpm @ 6987psi. Placed 100% prop in formation. Avg rate: 63 bpm Avg psi:6817 psi Max rate:70 bpm Max psi: 8746 psi Pad ISIP: 4358 psi FG: 0.93 psi/ft ISIP:3721 psi FG:0.85 psi/ft FTR= 6557 bbls LTR=223,601 bbls SIF= 336,277 lbs. TSIF= 9,036,664 lbs. |
| 10/10/2013 23:00 | 10/11/2013 01:00 | 2 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 29. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 10,366 '. Perforate intervals : 10,335' -10,337', 10,275' - 10,277',10,215' -10,217',10,155' - 10,157' & 10,095' - 10,097' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 15 bpm / 6200 psi. Line speed 326 ft/min. Used 80 bbls FTR: 223,681 bbls |
| 10/11/2013 01:00 | 10/11/2013 03:00 | 2 | PROD1 | OTHER | WSI | WSI waiting on Frac Ops for 12/13H |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|------------------|------------------|----------|----------|-----------------|-----------|--|
| 10/11/2013 03:00 | 10/11/2013 06:00 | 3 | COMPL | Frac | STIM | <p>FRAC STG #29 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule W/ 36 bbls 15% HCL, 355,930 lbs. 20/40 brown sand & 6,681 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 6543 psi. Acid on form @ 40 bpm @ 7969psi. Acid cleared @ 60 bpm @ 8500 psi.</p> <p>Increased rate to 80 bpm. Pumped 2,286 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 315 bbls. Ending rate 80 bpm @6300 psi. Placed 100% prop in formation.</p> <p>Avg rate: 65 bpm Avg psi: 7,143 psi Max rate: 80 bpm Max psi: 8,694 psi</p> <p>Pad ISIP: 4184 psi FG: 0.91 psi/ft ISIP: 4,643 psi FG: 0.97 psi/ft</p> <p>FTR= 6,681 bbls LTR= 230,362 bbls SIF= 355,930 lbs. TSIF= 9,442,594 lbs.</p> |

Report #: 30 Daily Operation: 10/11/2013 06:00 - 10/12/2013 06:00

| | | | | | | | | |
|---------------------------------|-------------------------|-------------------|-------------------------|-------------------------|---|--|----------------------|--|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | | AFE Number 027691 | |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | | | |
| 111 | 28 | 18,825.5 | -26.5 | | PIONEER PUMPING SERVICES, SWAT Fleet #1 | | | |

Operations Summary

Perf stage 30
Frac stage 30
Re-Perf stage 30-B
Frac stage 30-31 together
Perf 32

Remarks

PPS Downtime: 2.0 Hrs Cum: 13.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 247,171

RT: 0 bbls

CR: 3,535 bbls

LTR: 243,636

TSIF: 9,953,377 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|------------------|------------------|----------|----------|--|-----------|--|
| 10/11/2013 06:00 | 10/11/2013 07:30 | 1.5 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 30. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 10,006'. Perforate intervals : 10,035' -10,037', 9,975' - 9,977', 9,915' -9,917', 9,855' - 9,857' & 9,795' - 9,797' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm / 6000 psi. Line speed 350 ft/min.</p> <p>Used 78 bbls FTR: 230,440 bbls</p> |
| 10/11/2013 07:30 | 10/11/2013 13:30 | 6 | PROD1 | OTHER | WSI | WSI waiting on Frac Ops for 12/13H |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|------------------|------------------|----------|---------------|---|-----------|---|
| 10/11/2013 13:30 | 10/11/2013 14:30 | 1 | COMPL_UNPLN D | Unplanned time due to PXD pumping services` | U_PEPX D | Shutdown waiting on sand. |
| 10/11/2013 14:30 | 10/11/2013 15:30 | 1 | COMPL | Frac | STIM | <p>FRAC STG #30 of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule W/ 71 bbls 15% HCL, 4711 lbs.20/40 brown sand & 3,327 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 6,290 psi. Acid on form @ 40 bpm @ 6,591 psi. Acid cleared @ 50 bpm @ 6473 psi.</p> <p>Increased rate to 80 bpm. Pumped 2952 bbl pad. Ran0.5 ppg sand slug for 5,000 lbs brown sand psi never broke back. Flushed well @ 9,000 psi @ 30 bpm for 303 bbls. Ending rate 30 bpm @ 9000 psi. Placed 1% prop in formation.</p> <p>Avg rate: 30 bpm Avg psi:7,663 psi Max rate:78 bpm Max psi: 9,000 psi</p> <p>Pad ISIP: 4266 psi FG: 0.92 psi/ft ISIP:4750 psi FG:0.99 psi/ft</p> <p>FTR= 3327 bbls LTR= 233,767 bbls SIF= 4,711 lbs. TSIF= 9,447,305 lbs.</p> |
| 10/11/2013 15:30 | 10/11/2013 19:30 | 4 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | <p>RU E&P WL for Stage # 31. RIH & pump down with NO CFP & 4 each 3.375" guns. WE DIDN'T SET A CFP'. Perforate intervals : 9,735' -9.737', 9,675' - 9,677',9,615' -9,617',9,555' - 9,557' & 9,495' - 9,497" w/ 40 shots, 5 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 12 bpm / 9000 psi. Line speed 29.8 ft/min.</p> <p>Used 495 bbls FTR: 237,797 bbls LTR: 234,262 bbls CR: 3535</p> <p>NOTE PER ENGINEER WE DID NOT SET A CFP FOR THIS STAGE</p> |
| 10/11/2013 19:30 | 10/12/2013 00:45 | 5.25 | COMPL | Other operations | OTHR | Waiting on Frac Ops. |
| 10/12/2013 00:45 | 10/12/2013 03:00 | 2.25 | COMPL | Frac | STIM | <p>FRAC STG #31 of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule W/ 71 bbls 15% HCL, 506,072 lbs.20/40 brown sand & 9333 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 7637 psi. Acid on form @ 40 bpm @ 7637 psi. Acid cleared @ 50 bpm @ 6799 psi.</p> <p>Avg rate: 69 bpm Avg psi:6841 psi Max rate:80 bpm Max psi: 8287 psi</p> <p>Pad ISIP: 4291 psi FG: 0.92 psi/ft ISIP:4069 psi FG:0.89 psi/ft</p> <p>FTR= 247,130 bbls LTR= 243,595 bbls SIF= 506,072 lbs. TSIF= 9,953,377 lbs.</p> |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|--|-----------|---|
| 10/12/2013 03:00 | 10/12/2013 04:30 | 1.5 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 32. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 9,466'. Perforate intervals : 9,435' -9,437', 9,375' - 9,377', 9,315' -9,317', 9,255' - 9,257' & 9,195' - 9,197' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.50" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 12 bpm / 4000 psi. Line speed 185 ft/min. Used 41 bbls FTR: 247,171 bbls LTR:243,636 bbls CR: 3535 |
| 10/12/2013 04:30 | 10/12/2013 06:00 | 1.5 | COMPL | Other operations | OTHR | WSI waiting on 12/13H ops |

Report #: 31 Daily Operation: 10/12/2013 06:00 - 10/13/2013 06:00

| | | |
|----------------------------------|-------------------------------|--|
| Job Category ORIG COMPLETION | Primary Job Type OCM | AFE Number 027691 |
| Days From Spud (days) 112 | Days on Location (days) 29 | End Depth (ftGRD) 18,825.5 |
| End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 |

Operations Summary

Frac stage 32
Perf stage 33
Frac Stage 33

Waiting on Drill Out Ops.

Remarks

PPS Downtime: 0.0 Hrs Cum:13.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 262,069

RT: 0 bbls

CR: 3,535 bbls

LTR: 258,534

TSIF: 10,667,062 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|------------------|-----------|--|
| 10/12/2013 06:00 | 10/12/2013 11:00 | 5 | COMPL | Other operations | OTHR | Waiting on Frac Ops. |
| 10/12/2013 11:00 | 10/12/2013 13:00 | 2 | COMPL | Frac | STIM | FRAC STG #32 of33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule W/ 78 bbls 15% HCL, 357,596 lbs.20/40 brown sand & 7,631 bbls of hybrid fluid linear/xlink down 5.5" csg. Formation broke @ 20 bpm @ 4,842 psi. Acid on form @ 40 bpm @ 5,960 psi. Acid cleared @ 50 bpm @ 6,311 psi. Avg rate: 70.4 bpm Avg psi:6,050 psi Max rate:80 bpm Max psi: 6,950 psi Pad ISIP: 4,101 psi FG: 0.90 psi/ft ISIP:3,847 psi FG:0.87 psi/ft FTR= 7631 bbls LTR= 251,267 bbls SIF= 357,596 lbs. TSIF= 10,310,973 lbs. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|--|-----------|--|
| 10/12/2013 13:00 | 10/12/2013 14:30 | 1.5 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL for Stage # 32. RIH & pump down Baker CFP & 4 each 3.375" guns. Set CFP @ 9,166'. Perforate intervals : 9,135' -9,137', 9,075' - 9,077', 9,015' -9,017' 8,955' - 8,957' & 8,895' - 8,897' w/ 40 shots, 5 SPF, 60*, 25 GR, 0.50" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 12 bpm / 1800 psi. Line speed 350 ft/min. Used 28 bbls LTR: 251,295 bbls |
| 10/12/2013 14:30 | 10/12/2013 21:30 | 7 | COMPL | Other operations | OTHR | Waiting on frac Ops. |
| 10/12/2013 21:30 | 10/12/2013 23:30 | 2 | COMPL | Frac | STIM | FRAC STG #33 of 33: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule W/ 78 bbls 15% HCL, 356,089 lbs.20/40 brown sand & 7239 bbls of hybrid fluid linear/xlink down 5.5" csg. Formation broke @ 20 bpm @ 4892 psi. Acid on form @ 40 bpm @ 6022 psi. Acid cleared @ 50 bpm @ 5711 psi. Avg rate: 70 bpm Avg psi:5837 psi Max rate:80 bpm Max psi: 6088 psi Pad ISIP: 3919 psi FG: 0.88 psi/ft ISIP:3927 psi FG:0.88 psi/ft FTR= 262,069 bbls LTR= 258,534 bbls SIF= 356,089 lbs. TSIF= 10,667,062 lbs. CR: 3535 |
| 10/12/2013 23:30 | 10/13/2013 00:30 | 1 | COMPL | RIH w/WL, set plug and perf, POOH w/WL | PERF | RU E&P WL to Set Baker CBP @ 8859' , do Negative Test. Test held POOH with E&P WL. SWIFN waiting on Drill Out Ops. |
| 10/13/2013 00:30 | 10/13/2013 06:00 | 5.5 | COMPL | Other operations | OTHR | SWIFN WAITING ON DRILL OUT OPS. |

Report #: 32 Daily Operation: 10/13/2013 06:00 - 10/14/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|--|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 113 | Days on Location (days) 30 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig PIONEER PUMPING SERVICES, SWAT Fleet #1 | |

Operations Summary

Waiting on Drill Out Ops

Remarks

PPS Downtime: 0.0 Hrs Cum:13.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum. 0.0 Hr

FTR: 262,069

RT: 0 bbls

CR: 3,535 bbls

LTR: 258,534

TSIF: 10,667,062 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|------------------|-----------|---------------------------|
| 10/13/2013 06:00 | 10/14/2013 06:00 | 24 | COMPL | Other operations | OTHR | Waiting on Drill Out Ops. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 33 Daily Operation: 10/14/2013 06:00 - 10/15/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|-----|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 114 | Days on Location (days) 31 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig | |

Operations Summary

Waiting on Drill-out Ops

Remarks

ESCO: 0.0 Hrs Cum:0 Hrs
Warrior Energy Services Down Time: 0.0 Hrs Cum: 0.0 Hrs
Vision oil tools Down Time: 0.0 Hrs Cum: 0.0 Hrs -

FTR: 262,069

RT: 0 bbls

CR: 3,535 bbls

LTR: 258,534

TSIF: 10,667,062 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|------------------|-----------|---|
| 10/14/2013 06:00 | 10/15/2013 06:00 | 24 | COMPL | Other operations | OTHR | Waiting on Drill-out Ops to be complete on 12H and 13H. |

Report #: 34 Daily Operation: 10/14/2013 06:00 - 10/15/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|-----|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 114 | Days on Location (days) 32 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig | |

Operations Summary

Waiting on Drill Out Ops

Remarks

PPS Downtime: 0.0 Hrs Cum:13.5 Hrs
Select Water Transf Down Time: 0.0 Hrs Cum: 0.0 Hrs
E&P Wireline Down Time: 0.0 Hrs Cum: 0.0 Hrs -
RSI Downtime: 0.0 Hrs Cum: 0.0 Hr

FTR: 262,069

RT: 0 bbls

CR: 3,535 bbls

LTR: 258,534

TSIF: 10,667,062 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|------------------|-----------|--|
| 10/14/2013 06:00 | 10/15/2013 06:00 | 24 | COMPL | Other operations | OTHR | No Activity. Waiting On Drill Out Ops. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 35 Daily Operation: 10/15/2013 06:00 - 10/16/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|-----|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 115 | Days on Location (days) 33 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig | |

Operations Summary

Waiting on Drill-out Ops

Remarks

ESCO: 0.0 Hrs Cum:0 Hrs
Warrior Energy Services Down Time: 0.0 Hrs Cum: 0.0 Hrs
Vision oil tools Down Time: 0.0 Hrs Cum: 0.0 Hrs -

FTR: 262,069

RT: 0 bbls

CR: 3,535 bbls

LTR: 258,534

TSIF: 10,667,062 lbs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|------------------|-----------|---|
| 10/15/2013 06:00 | 10/16/2013 06:00 | 24 | COMPL | Other operations | OTHR | Waiting on Drill-out Ops to be complete on 12H and 13H. |

Report #: 36 Daily Operation: 10/31/2013 06:00 - 11/1/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|------------------|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 131 | Days on Location (days) 34 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig ESCO, 239 | |

Operations Summary

Well SI waiting on drill out ops.
MIRU all equipment for drill out ops.
TIH w workstring & BHA, 284 jts

Remarks

ESCO Rig #239 Downtime: 0 Hrs Cum: .0 Hrs
Warrior Energy Service flowback Down Time: 0 Hrs Cum: 0 Hrs
Vision Down Time: 0 Hrs Cum: 0 Hrs
Voyager SandX: 0.0 Hrs Cum: 0 Hrs

BIT DATA:

SIZE: 4 3/4
TYPE:HA-4-G
S/N: 1319986
PIN SIZE: 2 7/8
IADC: 216

350 Joints of 2 3/8 PH6 P110 tubing on location for drill-outs.
290 Joints of 2 7/8 PH6 P110 tubing on location for drill-outs.

FTR: 262,069 bbls

RT:0 bbls

CR: 3535 bbls

LTR: 258,534 bbl

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|--|--------------|--|
| 10/31/2013 06:00 | 10/31/2013 17:00 | 11 | COMPL | Milling with tubular includes RIH,POOH, Short trip | TUB_MIL L | Well SI waiting on drill out ops. |
| 10/31/2013 17:00 | 10/31/2013 19:00 | 2 | COMPL | Milling with tubular includes RIH,POOH, Short trip | TUB_MIL L | MIRU ESCO #239, Voyager Sand-X, Warrior Flowback and Vision for drill out ops. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|-----------------------|---------------------------|----------------------------------|--|
| 10/31/2013 19:00 | 10/31/2013 20:00 | 1 | INT-TST CSG/DO/FIT | TEST CSG/DRILL OUT/FIT | TEST CSG/DRI LL OUT/FIT | Test blind rams & FB iron to 4,000 psi, |
| 10/31/2013 20:00 | 11/1/2013 03:00 | 7 | PLAN | EQUIP | BHA | M/U BHA as follows: 4-3/4" JZ bit. Bit Sub 2 7/8 reg box to 2 3/8 ph6 box. String Float 2 3/8 ph6 pin to 2 3/8 box F-Nipple 2 3/8 ph6 pin to 2 3/8 box. X-Nipple 2 3/8 ph6 pin to 2 3/8 box 350 joints of 2 3/8 PH6 P110 tubing total on location. 290 joints of 2 7/8 PH6 P110 tubing total on location. |
| 11/1/2013 03:00 | 11/1/2013 06:00 | 3 | PILOT-TRIP | TRIP | TRIP | WIH with workstring tag kill plug @ 8,859' with jt 284 @ Report time |

Report #: 37 Daily Operation: 11/1/2013 06:00 - 11/2/2013 06:00

| | | | | | | |
|--|--------------------------------------|--------------------------------------|---|------------------------|-------------------------|-----------------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 132 | Days on Location (days) 35 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig ESCO, 239 | |

Operations Summary

TIH w/ workstring & BHA // CBP // Drilled CFPS, With sweeps, #33,32,31, No plug, 29, 28, 27, 26, 25, Pumping sweep @ report time.

Remarks

ESCO Rig #239 Downtime: 0 Hrs Cum: .0 Hrs
Warrior Energy Service flowback Down Time: 0 Hrs Cum: 0 Hrs
Vision Down Time: 0 Hrs Cum: 0 Hrs
Voyager SandX: 0.0 Hrs Cum: 0 Hrs

BIT DATA:

SIZE: 4 3/4
TYPE: HA-4-G
S/N: 1319986
PIN SIZE: 2 7/8
IADC: 216

350 Joints of 2 3/8 PH6 P110 tubing on location for drill-outs.
290 Joints of 2 7/8 PH6 P110 tubing on location for drill-outs.

(Transfer 440 bbls Oil out of working tanks, 24 HR // Put in Storage work tanks.)

FTR: 264,552 bbls

RT: 5008 bbls

CR: 8543 bbls

LTR: 256,009 bbl

Oil-24 HR 440 bbl // RT 440 bbl // CR OIL 440 bbl

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|---------------------|---|-----------|--|
| 11/1/2013 06:00 | 11/1/2013 06:30 | 0.5 | PROD1 | SHARE | SFTY | Held safety meeting (overhead, trips, slips & falls) |
| 11/1/2013 06:30 | 11/1/2013 09:00 | 2.5 | INT-TRIP IN HOLE | TRIP IN HOLE | TIH | TIH w/ workstring & BHA Tag Kill plug @ 8,859' |
| 11/1/2013 09:00 | 11/1/2013 09:30 | 0.5 | COMPL | RURD any equipment: WL, EL, CT, etc. | RURD | RU power swivel Break circulation |
| 11/1/2013 09:30 | 11/1/2013 12:00 | 2.5 | PROD1 | WORK | CLNOUT | Drill out 2 kill plugs in 1.5 hrs. Pumping 2.5 BPM. returning 6.4 BPM. @ 1800 psi. flow rate @ 800 Psi. Wash down and tag CFP # 1 |
| 11/1/2013 12:00 | 11/1/2013 13:15 | 1.25 | PROD1 | WORK | CLNOUT | Circulate well bore clean w/sweeps and dye marker. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|-----------------|-----------|---|
| 11/1/2013 13:15 | 11/1/2013 16:00 | 2.75 | PROD1 | WORK | CLNOUT | Drill out CFP #32 in 25 min. pumping 2.5 BPM@ 1800 PSI returning 6 BPM @ 700 PSI. Wash medium sand to CFP #31 @ 9,466' . Drill out CFP #31 in 27 min. Pumping 2.5 BPM@ 1800 PSI returning 6.4 BPM@ 1100 PSI. Wash to CFP # 29 @ 10,066' |
| 11/1/2013 16:00 | 11/1/2013 19:00 | 3 | PROD1 | WORK | CLNOUT | Not a CFP #30, will TIH while circulating to CFP #29 |
| 11/1/2013 19:00 | 11/2/2013 03:00 | 8 | PROD1 | WORK | CLNOUT | Drill out CFP #29 in 60 min. pumping 4.5 BPM@ 745 PSI returning 3.5 BPM @ 1125 PSI. Wash medium sand to CFP #28 @ 10,366' Drill out 28 min, washed to & Drill out CFP #27 in 25 min. Pumping 3.4 BPM@ 720 PSI returning 4.0 BPM@ 1100 PSI. Wash to CFP # 26 @ 10,966' Drill out in 55 min. Pump sweeps till clean returns. Rotated & Washed to CFP #25 @ 11,266' & drill out 90 min. |
| 11/2/2013 03:00 | 11/2/2013 06:00 | 3 | PROD1 | WORK | CLNOUT | Rotate & washed to 11,414' w/ 368 JTS, Pumping sweep @ Report time, Cont washing & Drilling plugs. |

Report #: 38 Daily Operation: 11/2/2013 06:00 - 11/3/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|------------------|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 133 | Days on Location (days) 36 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig ESCO, 239 | |

Operations Summary

TIH w/ workstring & BHA // Drilled 10 CFPS, With sweeps, Washing to #14 @ Report Time.

Remarks

ESCO Rig #239 Downtime: 0 Hrs Cum: .0 Hrs
Warrior Energy Service flowback Down Time: 0 Hrs Cum: 0 Hrs
Vision Down Time: 0 Hrs Cum: 0 Hrs
Voyager SandX: 0.0 Hrs Cum: 0 Hrs

BIT DATA:

SIZE: 4 3/4
TYPE:HA-4-G
S/N: 1319986
PIN SIZE: 2 7/8
IADC: 216

350 Joints of 2 3/8 PH6 P110 tubing on location for drill-outs.
290 Joints of 2 7/8 PH6 P110 tubing on location for drill-outs.

FTR: 266,999 bbls

RT:5416 bbls

CR: 13,959 bbls

LTR: 253,040 bbl

OIL// RT 435 bbl // CR OIL 875 bbl

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|-----------------|-----------|---|
| 11/2/2013 06:00 | 11/2/2013 06:30 | 0.5 | PROD1 | SHARE | SFTY | Held safety meeting (H2S) |
| 11/2/2013 06:30 | 11/2/2013 13:30 | 7 | PROD1 | WORK | CLNOUT | Drill out CFP #24 in 25 min. pumping 2.5 BPM@ 1800 PSI returning 4.5 BPM @ 1100 PSI. Wash Heavy sand to CFP #23 @ 11,866' Drill out 35 min, washed to & Drill out CFP #22 in 30 min. Pumping 2.5 BPM@ 1800 PSI returning 4.5 BPM@ 100 PSI. Wash to CFP # 21 @ 12,466' Drill out in 45 min |
| 11/2/2013 13:30 | 11/2/2013 15:00 | 1.5 | PROD1 | WORK | CLNOUT | Circulate well bore clean w/sweeps and dye marker. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|---------------|---|-----------|--|
| 11/2/2013 15:00 | 11/3/2013 00:00 | 9 | PROD1 | WORK | CLNOUT | Drill out CFP #21 in 45 min. pumping 2.5 BPM@ 1800 PSI returning 4.5 BPM @ 950 PSI. Wash Heavy sand to CFP #20 @ 12,766' Drill out 35 min, washed to & Drill out CFP #19, w/ 422 Jts/ 75 min. Pumping 3.5 BPM@ 1700 PSI returning 4.2 BPM@ 1090 PSI. Wash to CFP # 18 @ 13,366' Drill out in 50 min. // Washed dn to CFP #17 @ 13,665' w/ 441 Jts, & Drilled out 40 min, pumping 3.5 bpm @ 1600 psi, 4.2 bpm on returns @ 1020 psi. Pump sweeps till clean returns. |
| 11/3/2013 00:00 | 11/3/2013 01:00 | 1 | COMPL_UNPLN D | Any wait time associated to waiting on proppant | U_WOP | Adjustment day-lite savings. |
| 11/3/2013 01:00 | 11/3/2013 07:00 | 6 | PROD1 | WORK | CLNOUT | Rotate & wash dn& Drill out CFP #16 in 55 min. pumping 2.5 BPM@ 1800 PSI returning 4.5 BPM @ 1100 PSI. // Puh lay down 4-JTS had Plug Materials on Bit, worked free Pumped sweep.Cont washing DN. Rotate & Wash med-Hvy sand to CFP #15 @ 14,266' // 461 JTS. Drill out 65 min, Circ sweep, & Cont washing to Cfp # 14 @ 14,566' @ Report Time. |

Report #: 39 Daily Operation: 11/3/2013 06:00 - 11/4/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|------------------|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 134 | Days on Location (days) 37 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig ESCO, 239 | |

Operations Summary

TIH w/ workstring & BHA // Drilled 7 CFPS, With sweeps, Washing to #6 @ Report Time.

Remarks

ESCO Rig #239 Downtime: 3 Hrs Cum: .3 Hrs
Warrior Energy Service flowback Down Time: 0 Hrs Cum: 0 Hrs
Vision Down Time: 0 Hrs Cum: 0 Hrs
Voyager SandX: 0.0 Hrs Cum: 0 Hrs

BIT DATA:

SIZE: 4 3/4
TYPE:HA-4-G
S/N: 1319986
PIN SIZE: 2 7/8
IADC: 216

350 Joints of 2 3/8 PH6 P110 tubing on location for drill-outs.
290 Joints of 2 7/8 PH6 P110 tubing on location for drill-outs.

FTR: 270,468 bbls

RT:4644 bbls

CR: 18,603 bbls

LTR: 251,865 bbl

OIL// RT 525 bbl // CR OIL 1400 bbl

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|-----------------|-----------|--|
| 11/3/2013 06:00 | 11/3/2013 06:30 | 0.5 | PROD1 | SHARE | SFTY | Safety meeting (trips,slips,falls) |
| 11/3/2013 06:30 | 11/3/2013 12:30 | 6 | PROD1 | WORK | CLNOUT | Drill out CFP #14 in 30 min. pumping 2.5 BPM@ 1800 PSI returning 4.5 BPM @ 1000 PSI. Wash Med-Heavy sand to CFP #13 @ 14,866' Drill out 30 min, Pumped sweeps till clean returns |
| 11/3/2013 12:30 | 11/3/2013 18:00 | 5.5 | PROD1 | WORK | CLNOUT | Drill out CFP #12 in 45 min. Pumping 2.5 BPM@ 1800 PSI returning 4.5 BPM@ 1000 PSI. Wash to CFP # 11 @ 15,466'. Pumping sweeps till clean returns |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|---------------|---|-----------|---|
| 11/3/2013 18:00 | 11/3/2013 23:00 | 5 | PROD1 | WORK | CLNOUT | Drill out CFP #11 in 45 min. Pumping 2.5 BPM @ 1900 PSI returning 5 BPM @ 1100 PSI. Wash Med-Heavy sand to CFP #10 @ 15,766'. Drill out in 30 min. Pumping 2.5 BPM @ 1800 PSI returning 5 BPM @ 1000 PSI. Pumping sweeps till clean returns. Washed Dn to Cfp # 9 16,066 w/ 519 jts, Drill out CFP #9 30-mins. Pumping 2.8 bpm @ 1800 psi w/ returns @ 4,7 bpm @ 1020 psi, Pump sweep, Cont washing to 16,243' w/ 525 JTS, Rig haveing issues w/ Breaks, set TBG in slips & Circ whie waiting on mechanic. |
| 11/3/2013 23:00 | 11/4/2013 02:00 | 3 | COMPL_UNPLN D | Any wait time associated to waiting on proppant | U_WOP | Waiting on ESCO Mechanic.// Circ well. Made Repairs on Break system. |
| 11/4/2013 02:00 | 11/4/2013 06:00 | 4 | PROD1 | WORK | CLNOUT | Drill out CFP #8 @ 16,368' in 55 min. Pumping 2.5 BPM @ 1900 PSI returning 5 BPM @ 1100 PSI. Wash Med- sand to CFP #7 @ 16,655'. Drill out in 50 min. Pumping 2.5 BPM @ 1800 PSI returning 5 BPM @ 1000 PSI. Pumping sweeps till clean returns, Washing to CFP # 6 @ Report time. |
| 11/4/2013 06:00 | 11/4/2013 06:30 | 0.5 | PROD1 | SHARE | SFTY | Safety meeting (trips,slips,falls) |

Report #: 40 Daily Operation: 11/4/2013 06:00 - 11/5/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|------------------|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 135 | Days on Location (days) 38 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig ESCO, 239 | |

Operations Summary

TIH w/ workstring & BHA // Drilled 4 CFPS, With sweeps, Pumping bottoms up @ Report Time.

Remarks

ESCO Rig #239 Downtime: 0 Hrs Cum: .3 Hrs
Warrior Energy Service flowback Down Time: 0 Hrs Cum: 0 Hrs
Vision Down Time: 0 Hrs Cum: 0 Hrs
Voyager SandX: 0.0 Hrs Cum: 0 Hrs

BIT DATA:

SIZE: 4 3/4
TYPE:HA-4-G
S/N: 1319986
PIN SIZE: 2 7/8
IADC: 216

350 Joints of 2 3/8 PH6 P110 tubing on location for drill-outs.
290 Joints of 2 7/8 PH6 P110 tubing on location for drill-outs.

FTR: 273,537 bbls

RT:4979 bbls

CR: 23,582 bbls

LTR: 249,955 bbl

OIL// RT 385 bbl // CR OIL 1785 bbl

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|--------------------|--------------------|----------|----------|-----------------|-----------|--|
| 11/4/2013 06:00 | 11/4/2013 06:30 | 0.5 | PROD1 | SHARE | SFTY | Safety meeting (trips,slips,falls) |
| 11/4/2013 06:30 | 11/4/2013 09:30 | 3 | PROD1 | WORK | CLNOUT | Drill out CFP #6 in 45 min.EOT @ 17,250 Pumping 2.5 BPM @ 1900 PSI returning 5 BPM @ 1100 PSI. Pump sweeps till clean returns |
| 11/4/2013 09:30 | 11/4/2013 17:00 | 7.5 | PROD1 | WORK | CLNOUT | Wash Med-Heavy sand to depth 17,400'. Swivel torqued up. POH while washing to 17,200'. Circulated and ran pill and waited till clean returns. Recovered plug parts |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|-----------------|-----------|---|
| 11/4/2013 17:00 | 11/5/2013 00:00 | 7 | PROD1 | WORK | CLNOUT | TIH to CFP #3 @ 17,866'. Drill out in 55 min. Pumping 2.8 BPM @ 1045 PSI returning 4.5 BPM @ 1100 PSI. Pump sweeps till clean returns. Wash Med- sand to CFP #2 @ 18,166'. Drill out in 55 min. Pumping 3.0 BPM @ 1788 PSI returning 4.6 BPM @ 1100 PSI. Pump sweeps till clean returns |
| 11/5/2013 00:00 | 11/5/2013 04:30 | 4.5 | PROD1 | WORK | CLNOUT | TIH to CFP #1 @ 18,480'. Drill out in 55 min. Pumping 2.8 BPM @ 1045 PSI returning 4.5 BPM @ 1100 PSI. Pump sweeps till clean returns, Rotated & washed to PBTD @ 18,764' w/ 606 JTS. |
| 11/5/2013 04:30 | 11/5/2013 06:00 | 1.5 | PROD1 | WORK | CLNOUT | Circ 2 volumes @ Report Time. |

Report #: 41 Daily Operation: 11/5/2013 06:00 - 11/6/2013 06:00

| | | |
|---------------------------------|----------------------------------|-------------------------------------|
| Job Category ORIG COMPLETION | Primary Job Type OCM | AFE Number 027691 |
| Days From Spud (days) 136 | Days on Location (days) 39 | End Depth (ftGRD) 18,825.5 |
| | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) ESCO, 239 |

Operations Summary

Sweep wellbore clean
POOH laying down // RU Basic snubbing unit & Poh w/ 100 jts & BHA.
RD Basic//MOL, MIRU API wireline, Make JB run, RU wireline PKR @ report time.

Remarks

ESCO Rig #239 Downtime: 0 Hrs Cum: .3 Hrs
Warrior Energy Service flowback Down Time: 0 Hrs Cum: 0 Hrs
Vision Down Time: 0 Hrs Cum: 0 Hrs
Voyager SandX: 0.0 Hrs Cum: 0 Hrs

350 Joints of 2 3/8 PH6 P110 tubing on location for drill-outs.
290 Joints of 2 7/8 PH6 P110 tubing on location for drill-outs.

FTR: 275,017 bbls

RT:3064 bbls

CR: 26,646 bbls

LTR: 248,371 bbl

OIL// RT 195 bbl // CR OIL 1980 bbl

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|-----------|--|-----------|---|
| 11/5/2013 06:00 | 11/5/2013 06:30 | 0.5 | PROD1 | SHARE | SFTY | Safety meeting (pinch points) |
| 11/5/2013 06:30 | 11/5/2013 10:30 | 4 | COMPL | Milling with tubular includes RIH,POOH, Short trip | TUB_MILL | WO 2 sweeps to come back and verify wellbore is clean RD swivel and begin POOH |
| 11/5/2013 10:30 | 11/5/2013 21:00 | 10.5 | PROD-TRIP | TRIP | TRIP | POOH laying down work string, Layed DN 506 jts w/ 100 jts in well @ 3211'. |
| 11/5/2013 21:00 | 11/6/2013 04:00 | 7 | COMPL | Other operations | OTHR | Miru Basic Snubbing Unit. snubb, POH w/ 100 Jts & BHA, Holding 1320 psi. Secured well, 1410 psi SICP. 606 total jts 2-3/8 // 2-7/8 ws tbg Laid DN. |
| 11/6/2013 04:00 | 11/6/2013 06:00 | 2 | COMPL | Wireline operations to set packer | WLPACK | MIRU API WL. Made JB run to 8,815' - No issues, POOH. RU and RIH w/5.5" PCS-AS1-XPKR wireline set packer @ Report time. |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 42 Daily Operation: 11/6/2013 06:00 - 11/7/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------|-------------------|-------------------------|-------------------------|-----------|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) | Days on Location (days) | End Depth (ftGRD) | End Depth (TVD) (ftGRD) | Dens Last Mud (lb/gal) | Rig | |
| 137 | 40 | 18,825.5 | -26.5 | | ESCO, 239 | |

Operations Summary

Run junk basket, pooh ru and run packer set at 8764', Rig down wireline and Rig up to run tubing, run production, flow out gas bubble, start in hole with production tubing, land tubing, had issues with trash on top of packer, ND BOP's and frac stack, tree up. test void good test, pump out plug, rig down work over rig and move away from wellhead. SDFN.

Remarks

ESCO Rig #239 Downtime: 0 Hrs Cum: .3 Hrs

FTR: 275,017 bbls

RT:3064 bbls

CR: 26,646 bbls

LTR: 248,371 bbl

OIL// RT 0 bbl // CR OIL 1980 BBLS

Pump out plug burst at 2000 Psi pumped 25 BBLS ISIP 1100 Psi.

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|--|-----------|--|
| 11/6/2013 06:00 | 11/6/2013 06:45 | 0.75 | COMPL | Wireline operations to set packer | WLPK | Equalize well and start in hole with junk basket ran to 8800'. Pull out of hole with junk basket and gage ring. |
| 11/6/2013 06:45 | 11/6/2013 09:30 | 2.75 | COMPL | Wireline operations to set packer | WLPK | Make up packer, nipple up lubricator, equalize to well run in hole and set (PCS) AS1 2 7/8" X 5 1/2" packer at 8764', with 17K down on packer. Pooh with setting tool. Bled PSI off well while pulling out of hole with setting tool. |
| 11/6/2013 09:30 | 11/6/2013 11:30 | 2 | COMPL | RURD any equipment: WL, EL, CT, etc. | RURD | Rig down wireline, rig up to run tubing. |
| 11/6/2013 11:30 | 11/6/2013 15:30 | 4 | COMPL | Tbg related operations | TUBING | Run production tubing and gas lift valves per design. Details in tubing section. |
| 11/6/2013 15:30 | 11/6/2013 16:15 | 0.75 | COMPL | Tbg related operations | TUBING | Gas bubble worked up to surface install TIW valve and pump 20 BBLS fresh water down tubing, Bled gas bubble on casing side down to slop tank. |
| 11/6/2013 16:15 | 11/6/2013 17:00 | 0.75 | COMPL | Tbg related operations | TUBING | Well static, resume running production string 48 joints left. Ran 277 joints of 2 7/8" total. |
| 11/6/2013 17:00 | 11/6/2013 20:00 | 3 | COMPL | Tbg related operations | TUBING | Engage packer could not get on off tool of latch on to packer rig up kelly hose and return line to slop tank and circulate while working tubing at packer able to move obstruction and latch on packer, measure for space out laid down one joint installed pups, tubing hanger, and TIW valve. Engage packer could not latch on packer, circulate and work tubing at packer, latched on to packer, pulled 15K over. Land tubing. Bled PSI off tubing and tubing continued to flow. Moved kelly hose to slop tank and monitored tubing continue to have steady flow showed signs of slowing down and then picking up. Tubing static. |
| 11/6/2013 20:00 | 11/6/2013 22:00 | 2 | COMPL | ND, NU, Testing, Sleeve Installation, Greasing Wel | WLHEAD | Rig down rig floor. Nipple down BOP's and frac stack. |
| 11/6/2013 22:00 | 11/6/2013 23:00 | 1 | COMPL | ND, NU, Testing, Sleeve Installation, Greasing Wel | WLHEAD | Install tree and test void to 5K good test. Pump out plug burst at 2000 Psi pumped 25 BBLS ISIP 1100 Psi. Secure well. |
| 11/6/2013 23:00 | 11/7/2013 01:00 | 2 | COMPL | RURD any equipment: WL, EL, CT, etc. | RURD | Rig down rig and move away from well to allow for flow line hook up. Will move off location in AM. |
| 11/7/2013 01:00 | 11/7/2013 06:00 | 5 | COMPL | Shut down for night | SDFN | SDFN |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 43 Daily Operation: 11/7/2013 06:00 - 11/8/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|-----|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 138 | Days on Location (days) 41 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig | |

Operations Summary

Release all support equipment, clean frac tanks and flow back tanks. Turn Pad over to production.

Remarks

FTR: 275,017 bbls

RT:3064 bbls

CR: 26,646 bbls

LTR: 248,371 bbl

OIL// RT 0 bbl // CR OIL 1980 BBLs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|-----------------|-----------------|----------|----------|--------------------------------------|-----------|---|
| 11/7/2013 06:00 | 11/7/2013 07:00 | 1 | COMPL | Other operations | OTHR | No activity |
| 11/7/2013 07:00 | 11/7/2013 18:00 | 11 | COMPL | RURD any equipment: WL, EL, CT, etc. | RURD | Load out Vision pumps swivel, slop tank, and various rental subs and valves, Move rig off location, release crew trailer, office trailer, fuel tanks, and all rental equipment. Move oil to storage tanks, transfer all water to disposal and clean frac tanks. |
| 11/7/2013 18:00 | 11/8/2013 06:00 | 12 | COMPL | Shut down for night | SDFN | SDFN |

Report #: 44 Daily Operation: 11/10/2013 06:00 - 11/11/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------|-----|----------------------|
| Job Category ORIG COMPLETION | | | | Primary Job Type OCM | | AFE Number 027691 |
| Days From Spud (days) 141 | Days on Location (days) 42 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig | |

Operations Summary

Move all frac tanks off location.

Remarks

FTR: 275,017 bbls

RT:3064 bbls

CR: 26,646 bbls

LTR: 248,371 bbl

OIL// RT 0 bbl // CR OIL 1980 BBLs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|------------------|------------------|----------|----------|--------------------------------------|-----------|----------------------------------|
| 11/10/2013 06:00 | 11/10/2013 12:00 | 6 | COMPL | Other operations | OTHR | No activity |
| 11/10/2013 12:00 | 11/10/2013 18:00 | 6 | COMPL | RURD any equipment: WL, EL, CT, etc. | RURD | Move all frac tanks off location |
| 11/10/2013 18:00 | 11/11/2013 06:00 | 12 | COMPL | Shut down for night | SDFN | SDFN |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Report #: 45 Daily Operation: 11/11/2013 06:00 - 11/12/2013 06:00

| | | | | | | |
|---------------------------------|-------------------------------|-------------------------------|----------------------------------|------------------------|-----|----------------------|
| Job Category ORIG COMPLETION | | | Primary Job Type OCM | | | AFE Number 027691 |
| Days From Spud (days) 142 | Days on Location (days) 43 | End Depth (ftGRD) 18,825.5 | End Depth (TVD) (ftGRD) -26.5 | Dens Last Mud (lb/gal) | Rig | |

Operations Summary
Complete oil spill clean up where frac tanks were spotted.

Remarks
FTR: 275,017 bbls

RT:3064 bbls

CR: 26,646 bbls

LTR: 248,371 bbl

OIL// RT 0 bbl // CR OIL 1980 BBLs

Time Log Summary

| Start Date | End Date | Dur (hr) | Activity | Activity Detail | Operation | Com |
|---------------------|---------------------|----------|----------|------------------|-----------|---|
| 11/11/2013 06:00 | 11/11/2013 18:00 | 12 | COMPL | Other operations | OTHR | Complete oil spill where frac tank and flowback tanks were spotted. |

WELL DETAILS

| | | |
|----------------------------------|------------------------------|--|
| Well Name UNIVERSITY 2-20 14H | API/UWI 42-383-38312-0000 | Operator PIONEER NATURAL RESRC USA, INC |
|----------------------------------|------------------------------|--|

Wellbore Hole Size

| Section Des | Size (in) | Act Top (ftGRD) | Act Btm (ftGRD) | Start Date | End Date |
|--------------|-----------|-----------------|-----------------|------------|-----------|
| Conductor | 24 | 0.0 | 123.5 | 6/1/2013 | 6/1/2013 |
| Surface | 17 1/2 | 123.5 | 553.5 | 6/22/2013 | 6/23/2013 |
| Intermediate | 12 1/4 | 553.5 | 8,083.5 | 6/24/2013 | 6/28/2013 |
| Production | 8 1/2 | 8,083.5 | 18,825.5 | 7/18/2013 | 7/31/2013 |

Conductor Casing

| | | | | | | | |
|---------------|-------------------|--------------|------------|-------|----------|-----|-------------------------|
| Run Date | Set Depth (ftGRD) | Centralizers | | | | | |
| Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) Btm (ftGRD) |
| Casing Joints | 20 | | | | 120.00 | 1 | -146.5 -26.5 |

| | | | | | | | |
|----------------------|----------------------------|--------------|------------|-------|----------|-----|-------------------------|
| Run Date 6/1/2013 | Set Depth (ftGRD) 123.5 | Centralizers | | | | | |
| Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) Btm (ftGRD) |
| Casing Joints | 20 | 19.124 | 94.00 | J-55 | 123.50 | 1 | 0.0 123.5 |

Surface Casing

| | | | | | | | |
|-------------------|----------|--------------|------------|-------|----------|-----|-------------------------|
| Set Depth (ftGRD) | Run Date | Centralizers | | | | | |
| Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) Btm (ftGRD) |
| Casing Joints | 13 3/8 | 12.715 | 48.00 | J-55 | 775.00 | 20 | -801.5 -26.5 |

| | | | | | | | |
|----------------------------|-----------------------|-------------------|------------|-------|----------|-----|-------------------------|
| Set Depth (ftGRD) 553.5 | Run Date 6/23/2013 | Centralizers 5 | | | | | |
| Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) Btm (ftGRD) |
| Casing Joints | 13 3/8 | 12.715 | 48.00 | J-55 | 509.04 | 13 | 0.0 509.0 |
| Float Collar | 13 3/8 | 12.715 | 48.00 | J-55 | 1.33 | 1 | 509.0 510.4 |
| Casing Joints | 13 3/8 | 12.715 | 48.00 | J-55 | 41.64 | 1 | 510.4 552.0 |
| Float Shoe | 13 3/8 | 12.715 | 48.00 | J-55 | 1.50 | 1 | 552.0 553.5 |

Surface Casing Cement

| | | | | | | |
|------------------|-------------------------------|---------------------------------------|---------------------------------|-----------------------------------|--------------------|----------------------|
| Type Casing | String Surface, 553.5ftGRD | Cementing Start Date 6/23/2013 | Cementing End Date 6/23/2013 | Cementing Company SCHLUMBERGER | Top (ftGRD) 0.0 | Btm (ftGRD) 553.5 |
| Class Class C | Amount (sacks) 250 | Yield (ft ³ /sack) 1.71 | Density (lb/gal) 13.60 | | | |

Intermediate Casing

| | | | | | | | |
|------------------------------|-----------------------|--------------------|------------|-------|----------|-----|-------------------------|
| Set Depth (ftGRD) | Run Date | Centralizers | | | | | |
| Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) Btm (ftGRD) |
| Casing Joints | 9 5/8 | 8.755 | 43.50 | L-80 | 7,775.00 | 195 | -7,801.5 -26.5 |
| Set Depth (ftGRD) 8,083.5 | Run Date 6/30/2013 | Centralizers 35 | | | | | |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

| Item Des | OD (in) | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) | Btm (ftGRD) |
|---------------|---------|---------|------------|-----------------|----------|-----|-------------|-------------|
| Casing Joints | 9 5/8 | 8.925 | 40.00 | L-80 | 1,956.79 | 45 | 0.1 | 1,956.9 |
| Casing Joints | 9 5/8 | 8.925 | 40.00 | L-80 | 0.00 | 0 | 1,956.9 | 1,956.9 |
| Casing Joints | 9 5/8 | 8.925 | 40.00 | L-80 | 1,161.06 | 25 | 1,956.9 | 3,117.9 |
| Casing Joints | 9 5/8 | 8.925 | 40.00 | L-80 Rytwrap | 2,753.69 | 59 | 3,117.9 | 5,871.6 |
| Casing Joints | 9 5/8 | 8.925 | 43.50 | L-80 | 2,116.35 | 46 | 5,871.6 | 7,988.0 |
| Float Collar | 10 | 8.925 | 43.50 | L-80 | 1.88 | 1 | 7,988.0 | 7,989.8 |
| Casing Joints | 9 5/8 | 8.925 | 43.50 | L-80 | 92.16 | 2 | 7,989.8 | 8,082.0 |
| Float Shoe | 10 | 8.925 | 43.00 | L-80 | 1.50 | 1 | 8,082.0 | 8,083.5 |

Intermediate Casing Cement

| | | | | | | |
|------------------|--------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|------------------------|------------------------|
| Type Casing | String Intermediate, 8,083.5ftGRD | Cementing Start Date 6/30/2013 | Cementing End Date 6/30/2013 | Cementing Company SCHLUMBERGER | Top (ftGRD) 473.5 | Btm (ftGRD) 6,473.5 |
| Class Class C | Amount (sacks) 935 | Yield (ft³/sack) 2.74 | Density (lb/gal) 11.00 | | | |
| Type Casing | String Intermediate, 8,083.5ftGRD | Cementing Start Date 6/30/2013 | Cementing End Date 6/30/2013 | Cementing Company SCHLUMBERGER | Top (ftGRD) 6,473.5 | Btm (ftGRD) 8,083.5 |
| Class Class C | Amount (sacks) 185 | Yield (ft³/sack) 1.07 | Density (lb/gal) 16.40 | | | |

Production Casing

| | | | | | | | | | |
|-------------------|----------|--------------|---------|------------|-------|-----------|-----|-------------|-------------|
| Set Depth (ftGRD) | Run Date | Centralizers | | | | | | | |
| Item Des | | OD (in) | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) | Btm (ftGRD) |
| Casing Joints | | 5 1/2 | 4.778 | 20.00 | P-110 | 18,675.00 | 467 | -18,701.5 | -26.5 |
| Set Depth (ftGRD) | Run Date | Centralizers | | | | | | | |
| 18,820.5 | 8/1/2013 | 16 | | | | | | | |
| Item Des | | OD (in) | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) | Btm (ftGRD) |
| Casing Joint | | 5 1/2 | 4.892 | 17.00 | P-110 | 0.00 | 0 | 0.0 | 0.0 |
| Cut Off | | 5 1/2 | 4.892 | 17.00 | P-110 | 9.18 | 1 | 0.0 | 9.2 |
| Casing Joint | | 5 1/2 | 4.892 | 17.00 | P-110 | 7,956.48 | 188 | 9.2 | 7,965.7 |
| Marker Joint | | 5 1/2 | 4.892 | 17.00 | P-110 | 20.05 | 1 | 7,965.7 | 7,985.7 |
| Casing Joint | | 5 1/2 | 4.892 | 17.00 | P-110 | 297.55 | 7 | 7,985.7 | 8,283.3 |
| Marker Joint | | 5 1/2 | 4.892 | 17.00 | P-110 | 20.02 | 1 | 8,283.3 | 8,303.3 |
| Casing Joint | | 5 1/2 | 4.892 | 17.00 | P-110 | 10,427.03 | 247 | 8,303.3 | 18,730.3 |
| Float Collar | | 5 1/2 | 4.892 | 17.00 | P-110 | 2.00 | 1 | 18,730.3 | 18,732.3 |
| Casing Joints | | 5 1/2 | 4.892 | 17.00 | P-110 | 86.19 | 2 | 18,732.3 | 18,818.5 |
| Float Shoe | | 5 1/2 | 4.892 | 17.00 | P-110 | 2.00 | 1 | 18,818.5 | 18,820.5 |

Production Casing Cement

| | | | | | | |
|-------------------------|-------------------------------------|----------------------------------|--------------------------------|------------------------|--------------------|-------------------------|
| Type Casing | String Production, 18,820.5ftGRD | Cementing Start Date 8/2/2013 | Cementing End Date 8/2/2013 | Cementing Company x | Top (ftGRD) 0.5 | Btm (ftGRD) 18,820.5 |
| Class Spacer | Amount (sacks) | Yield (ft³/sack) | Density (lb/gal) | | | |
| Class TXI LITEWEIGHT | 571 | 2.47 | 11.00 | | | |
| Class TXI LITEWEIGHT | 1,895 | 1.59 | 12.50 | | | |
| Class Water | | | 8.32 | | | |

Cement Squeeze

| | | | | | | |
|----------------|------------------|---------------|----------------------|--------------------|-------------|-------------|
| Description | Type | String | Cementing Start Date | Cementing End Date | Top (ftGRD) | Btm (ftGRD) |
| Amount (sacks) | Yield (ft³/sack) | Dens (lb/gal) | | | | |

Perforations

| Top (ftGRD) | Btm (ftGRD) | Zone | Shot Dens (shots/ft) | Entered Shot Total | Com |
|-------------|-------------|------|----------------------|--------------------|--------------------|
| 8,868.5 | 8,870.5 | | 4.0 | 8 | Stage 33 Cluster 5 |
| 8,928.5 | 8,930.5 | | 4.0 | 8 | Stage 33 Cluster 4 |
| 8,988.5 | 8,990.5 | | 4.0 | 8 | Stage 33 Cluster 3 |
| 9,048.5 | 9,050.5 | | 4.0 | 8 | Stage 33 Cluster 2 |
| 9,108.5 | 9,110.5 | | 4.0 | 8 | Stage 33 Cluster 1 |
| 9,168.5 | 9,170.5 | | 4.0 | 8 | Stage 32 Cluster 5 |
| 9,228.5 | 9,230.5 | | 4.0 | 8 | Stage 32 Cluster 4 |
| 9,288.5 | 9,290.5 | | 4.0 | 8 | Stage 32 Cluster 3 |
| 9,348.5 | 9,350.5 | | 4.0 | 8 | Stage 32 Cluster 2 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Perforations

| Top (ftGRD) | Btm (ftGRD) | Zone | Shot Dens (shots/ft) | Entered Shot Total | Com |
|-------------|-------------|------|-------------------------|-----------------------|----------------------|
| 9,408.5 | 9,410.5 | | 4.0 | 8 | Stage 32 Cluster 1 |
| 9,468.5 | 9,470.5 | | 4.0 | 8 | Stage 31 Cluster 5 |
| 9,528.5 | 9,530.5 | | 4.0 | 8 | Stage 31 Cluster 4 |
| 9,588.5 | 9,590.5 | | 4.0 | 8 | Stage 31 Cluster 3 |
| 9,648.5 | 9,650.5 | | 4.0 | 8 | Stage 31 Cluster 2 |
| 9,708.5 | 9,710.5 | | 4.0 | 8 | Stage 31 Cluster 1 |
| 9,768.5 | 9,770.5 | | 4.0 | 8 | Stage 30 Cluster 5 |
| 9,828.5 | 9,830.5 | | 4.0 | 8 | Stage 30 Cluster 4 |
| 9,888.5 | 9,890.5 | | 4.0 | 8 | Stage 30 Cluster 3 |
| 9,948.5 | 9,950.5 | | 4.0 | 8 | Stage 30 Cluster 2 |
| 10,008.5 | 10,010.5 | | 4.0 | 8 | Stage 30 Cluster 1 |
| 10,068.5 | 10,070.5 | | 4.0 | 8 | Stage 29 Cluster 5 |
| 10,128.5 | 10,130.5 | | 4.0 | 8 | Stage 29 Cluster 4 |
| 10,188.5 | 10,190.5 | | 4.0 | 8 | Stage 29 Cluster 3 |
| 10,248.5 | 10,250.5 | | 4.0 | 8 | Stage 29 Cluster 2 |
| 10,308.5 | 10,310.5 | | 4.0 | 8 | Stage 29 Cluster 2 |
| 10,363.5 | 10,365.5 | | 4.0 | 8 | Stage 28-b Cluster 5 |
| 10,368.5 | 10,370.5 | | 4.0 | 8 | Stage 28 Cluster 5 |
| 10,423.5 | 10,425.5 | | 4.0 | 8 | Stage 28-b Cluster 4 |
| 10,428.5 | 10,430.5 | | 4.0 | 8 | Stage 28 Cluster 4 |
| 10,483.5 | 10,485.5 | | 4.0 | 8 | Stage 28-b Cluster 3 |
| 10,488.5 | 10,490.5 | | 4.0 | 8 | Stage 28 Cluster 3 |
| 10,528.5 | 10,530.5 | | 4.0 | 8 | Stage 28-b Cluster 2 |
| 10,532.5 | 10,534.5 | | 4.0 | 8 | Stage 28-b Cluster 1 |
| 10,548.5 | 10,550.5 | | 4.0 | 8 | Stage 28 Cluster 2 |
| 10,608.5 | 10,610.5 | | 4.0 | 8 | Stage 28 Cluster 1 |
| 10,668.5 | 10,670.5 | | 4.0 | 8 | Stage 27 Cluster 5 |
| 10,728.5 | 10,730.5 | | 4.0 | 8 | Stage 27 Cluster 4 |
| 10,788.5 | 10,790.5 | | 4.0 | 8 | Stage 27 Cluster 3 |
| 10,848.5 | 10,850.5 | | 4.0 | 8 | Stage 27 Cluster 2 |
| 10,908.5 | 10,910.5 | | 4.0 | 8 | Stage 27 Cluster 1 |
| 10,968.5 | 10,970.5 | | 4.0 | 8 | Stage 26 Cluster 5 |
| 11,028.5 | 11,030.5 | | 4.0 | 8 | Stage 26 Cluster 4 |
| 11,088.5 | 11,090.5 | | 4.0 | 8 | Stage 26 Cluster 3 |
| 11,148.5 | 11,150.5 | | 4.0 | 8 | Stage 26 Cluster 2 |
| 11,208.5 | 11,210.5 | | 4.0 | 8 | Stage 26 Cluster 1 |
| 11,268.5 | 11,270.5 | | 4.0 | 8 | Stage 25 Cluster 5 |
| 11,328.5 | 11,330.5 | | 4.0 | 8 | Stage 25 Cluster 4 |
| 11,388.5 | 11,390.5 | | 4.0 | 8 | Stage 25 Cluster 3 |
| 11,448.5 | 11,450.5 | | 4.0 | 8 | Stage 25 Cluster 2 |
| 11,508.5 | 11,510.5 | | 4.0 | 8 | Stage 25 Cluster 1 |
| 11,568.5 | 11,570.5 | | 4.0 | 8 | Stage 24 Cluster 5 |
| 11,628.5 | 11,630.5 | | 4.0 | 8 | Stage 24 Cluster 4 |
| 11,688.5 | 11,690.5 | | 4.0 | 8 | Stage 24 Cluster 3 |
| 11,748.5 | 11,750.5 | | 4.0 | 8 | Stage 24 Cluster 2 |
| 11,808.5 | 11,810.5 | | 4.0 | 8 | Stage 24 Cluster 1 |
| 11,868.5 | 11,870.5 | | 4.0 | 8 | Stage 23 Cluster 5 |
| 11,928.5 | 11,930.5 | | 4.0 | 8 | Stage 23 Cluster 4 |
| 11,988.5 | 11,990.5 | | 4.0 | 8 | Stage 23 Cluster 3 |
| 12,048.5 | 12,050.5 | | 4.0 | 8 | Stage 23 Cluster 2 |
| 12,108.5 | 12,110.5 | | 4.0 | 8 | Stage 23 Cluster 1 |
| 12,168.5 | 12,170.5 | | 4.0 | 8 | Stage 22 Cluster 5 |
| 12,228.5 | 12,230.5 | | 4.0 | 8 | Stage 22 Cluster 4 |
| 12,288.5 | 12,290.5 | | 4.0 | 8 | Stage 22 Cluster 3 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Perforations

| Top (ftGRD) | Btm (ftGRD) | Zone | Shot Dens (shots/ft) | Entered Shot Total | Com |
|-------------|-------------|------|-------------------------|-----------------------|--------------------|
| 12,348.5 | 12,350.5 | | 4.0 | 8 | Stage 22 Cluster 2 |
| 12,408.5 | 12,410.5 | | 4.0 | 8 | Stage 22 Cluster 1 |
| 12,468.5 | 12,470.5 | | 4.0 | 8 | Stage 21 Cluster 5 |
| 12,528.5 | 12,530.5 | | 4.0 | 8 | Stage 21 Cluster 4 |
| 12,588.5 | 12,590.5 | | 4.0 | 8 | Stage 21 Cluster 3 |
| 12,648.5 | 12,650.5 | | 4.0 | 8 | Stage 21 Cluster 2 |
| 12,708.5 | 12,710.5 | | 4.0 | 8 | Stage 21 Cluster 1 |
| 12,768.5 | 12,770.5 | | 4.0 | 8 | Stage 20 Cluster 5 |
| 12,828.5 | 12,830.5 | | 4.0 | 8 | Stage 20 Cluster 4 |
| 12,888.5 | 12,890.5 | | 4.0 | 8 | Stage 20 Cluster 3 |
| 12,948.5 | 12,950.5 | | 4.0 | 8 | Stage 20 Cluster 2 |
| 13,008.5 | 13,010.5 | | 4.0 | 8 | Stage 20 Cluster 1 |
| 13,068.5 | 13,070.5 | | 4.0 | 8 | Stage 19 Cluster 5 |
| 13,128.5 | 13,130.5 | | 4.0 | 8 | Stage 19 Cluster 4 |
| 13,188.5 | 13,190.5 | | 4.0 | 8 | Stage 19 Cluster 3 |
| 13,248.5 | 13,250.5 | | 4.0 | 8 | Stage 19 Cluster 2 |
| 13,308.5 | 13,310.5 | | 4.0 | 8 | Stage 19 Cluster 1 |
| 13,368.5 | 13,370.5 | | 4.0 | 8 | Stage 18 Cluster 5 |
| 13,428.5 | 13,430.5 | | 4.0 | 8 | Stage 18 Cluster 4 |
| 13,488.5 | 13,490.5 | | 4.0 | 8 | Stage 18 Cluster 3 |
| 13,548.5 | 13,550.5 | | 4.0 | 8 | Stage 18 Cluster 2 |
| 13,608.5 | 13,610.5 | | 4.0 | 8 | Stage 18 Cluster 1 |
| 13,668.5 | 13,670.5 | | 4.0 | 8 | Stage 17 Cluster 5 |
| 13,728.5 | 13,730.5 | | 4.0 | 8 | Stage 17 Cluster4 |
| 13,788.5 | 13,790.5 | | 4.0 | 8 | Stage 17 Cluster 3 |
| 13,848.5 | 13,850.5 | | 4.0 | 8 | Stage 17 Cluster 2 |
| 13,908.5 | 13,910.5 | | 4.0 | 8 | Stage 17 Cluster 1 |
| 13,968.5 | 13,970.5 | | 4.0 | 8 | Stage 16 Cluster 5 |
| 14,028.5 | 14,030.5 | | 4.0 | 8 | Stage 16 Cluster 4 |
| 14,088.5 | 14,090.5 | | 4.0 | 8 | Stage 16 Cluster 3 |
| 14,148.5 | 14,150.5 | | 4.0 | 8 | Stage 16 Cluster 2 |
| 14,208.5 | 14,210.5 | | 4.0 | 8 | Stage 16 Cluster 1 |
| 14,268.5 | 14,270.5 | | 4.0 | 8 | Stage 15 Cluster 5 |
| 14,328.5 | 14,330.5 | | 4.0 | 8 | Stage 15 Cluster 4 |
| 14,388.5 | 14,390.5 | | 4.0 | 8 | Stage 15 Cluster 3 |
| 14,448.5 | 14,450.5 | | 4.0 | 8 | Stage 15 Cluster 2 |
| 14,508.5 | 14,510.5 | | 4.0 | 8 | Stage 15 Cluster 1 |
| 14,568.5 | 14,570.5 | | 4.0 | 8 | Stage 14 Cluster 5 |
| 14,628.5 | 14,630.5 | | 4.0 | 8 | Stage 14 Cluster 4 |
| 14,688.5 | 14,690.5 | | 4.0 | 8 | Stage 14 Cluster3 |
| 14,748.5 | 14,750.5 | | 4.0 | 8 | Stage 14 Cluster 2 |
| 14,808.5 | 14,810.5 | | 4.0 | 8 | Stage 14 Cluster 1 |
| 14,868.5 | 14,870.5 | | 4.0 | 8 | Stage 13 Cluster 5 |
| 14,928.5 | 14,930.5 | | 4.0 | 8 | Stage 13 Cluster 4 |
| 14,988.5 | 14,990.5 | | 4.0 | 8 | Stage 13 Cluster 3 |
| 15,048.5 | 15,050.5 | | 4.0 | 8 | Stage 13 Cluster 2 |
| 15,108.5 | 15,110.5 | | 4.0 | 8 | Stage 13 Cluster 1 |
| 15,168.5 | 15,170.5 | | 4.0 | 8 | Stage 12 Cluster 5 |
| 15,228.5 | 15,230.5 | | 4.0 | 8 | Stage 12 Cluster 4 |
| 15,288.5 | 15,290.5 | | 4.0 | 8 | Stage 12 Cluster 3 |
| 15,348.5 | 15,350.5 | | 4.0 | 8 | Stage 12 Cluster 2 |
| 15,408.5 | 15,410.5 | | 4.0 | 8 | Stage 12 Cluster 1 |
| 15,468.5 | 15,470.5 | | 4.0 | 8 | Stage 11 Cluster 5 |
| 15,528.5 | 15,530.5 | | 4.0 | 8 | Stage 11 Cluster 4 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Perforations

| Top (ftGRD) | Btm (ftGRD) | Zone | Shot Dens (shots/ft) | Entered Shot Total | Com |
|-------------|-------------|------|-------------------------|-----------------------|--------------------|
| 15,588.5 | 15,590.5 | | 4.0 | 8 | Stage 11 Cluster 3 |
| 15,648.5 | 15,650.5 | | 4.0 | 8 | Stage 11 Cluster 2 |
| 15,708.5 | 15,710.5 | | 4.0 | 8 | Stage 11 Cluster 1 |
| 15,768.5 | 15,770.5 | | 4.0 | 8 | Stage 10 Cluster 5 |
| 15,828.5 | 15,830.5 | | 4.0 | 8 | Stage 10 Cluster 4 |
| 15,888.5 | 15,890.5 | | 4.0 | 8 | Stage 10 Cluster 3 |
| 15,948.5 | 15,950.5 | | 4.0 | 8 | Stage 10 Cluster 2 |
| 16,008.5 | 16,010.5 | | 4.0 | 8 | Stage 10 Cluster 1 |
| 16,068.5 | 16,070.5 | | 4.0 | 8 | Stage 9 Cluster 5 |
| 16,128.5 | 16,130.5 | | 4.0 | 8 | Stage 9 Cluster 4 |
| 16,188.5 | 16,190.5 | | 4.0 | 8 | Stage 9 Cluster 3 |
| 16,248.5 | 16,250.5 | | 4.0 | 8 | Stage 9 Cluster 2 |
| 16,308.5 | 16,310.5 | | 4.0 | 8 | Stage 9 Cluster 1 |
| 16,368.5 | 16,370.5 | | 4.0 | 8 | Stage 8 Cluster 5 |
| 16,428.5 | 16,430.5 | | 4.0 | 8 | Stage 8 Cluster 4 |
| 16,488.5 | 16,490.5 | | 4.0 | 8 | Stage 8 Cluster 3 |
| 16,548.5 | 16,550.5 | | 4.0 | 8 | Stage 8 Cluster 2 |
| 16,608.5 | 16,610.5 | | 4.0 | 8 | Stage 8 Cluster 1 |
| 16,668.5 | 16,670.5 | | 4.0 | 8 | Stage 7 Cluster 5 |
| 16,728.5 | 16,730.5 | | 4.0 | 8 | Stage 7 Cluster 4 |
| 16,788.5 | 16,790.5 | | 4.0 | 8 | Stage 7 Cluster 3 |
| 16,848.5 | 16,850.5 | | 4.0 | 8 | Stage 7 Cluster 2 |
| 16,908.5 | 16,910.5 | | 4.0 | 8 | Stage 7 Cluster 1 |
| 16,968.5 | 16,970.5 | | 4.0 | 8 | Stage 6 Cluster 5 |
| 17,022.5 | 17,024.5 | | 4.0 | 8 | Stage 6 Cluster 4 |
| 17,076.5 | 17,078.5 | | 4.0 | 8 | Stage 6 Cluster 3 |
| 17,130.5 | 17,132.5 | | 4.0 | 8 | Stage 6 Cluster 2 |
| 17,184.5 | 17,186.5 | | 4.0 | 8 | Stage 6 Cluster 1 |
| 17,558.5 | 17,560.5 | | 4.0 | 8 | Stage 4 Re-perf 5 |
| 17,568.5 | 17,570.5 | | 4.0 | 8 | Stage 4 Cluster 5 |
| 17,628.5 | 17,630.5 | | 4.0 | 8 | Stage 4 Cluster 4 |
| 17,688.5 | 17,690.5 | | 4.0 | 8 | Stage 4 Cluster 3 |
| 17,748.5 | 17,750.5 | | 4.0 | 8 | Stage 4 Cluster 2 |
| 17,808.5 | 17,810.5 | | 4.0 | 8 | Stage 4 Cluster 1 |
| 17,868.5 | 17,870.5 | | 4.0 | 8 | Stage 3 Cluster 5 |
| 17,928.5 | 17,930.5 | | 4.0 | 8 | Stage 3 Cluster 4 |
| 17,988.5 | 17,990.5 | | 4.0 | 8 | Stage 3 Cluster 3 |
| 18,048.5 | 18,050.5 | | 4.0 | 8 | Stage 3 Cluster 2 |
| 18,108.5 | 18,110.5 | | 4.0 | 8 | Stage 3 Cluster 1 |
| 18,168.5 | 18,170.5 | | 4.0 | 8 | Stage 2 Cluster 5 |
| 18,228.5 | 18,230.5 | | 4.0 | 8 | Stage 2 Cluster 4 |
| 18,288.5 | 18,290.5 | | 4.0 | 8 | Stage 2 Cluster 3 |
| 18,348.5 | 18,350.5 | | 4.0 | 8 | Stage 2 Cluster 2 |
| 18,408.5 | 18,410.5 | | 4.0 | 8 | Stage 2 Cluster 1 |
| 18,463.5 | 18,465.5 | | 4.0 | 8 | Stage 1 Cluster 1 |
| 18,468.5 | 18,470.5 | | 4.0 | 8 | Stage 1 Cluster 5 |
| 18,523.5 | 18,525.5 | | 4.0 | 8 | Stage 1 Cluster 1 |
| 18,528.5 | 18,530.5 | | 4.0 | 8 | Stage 1 Cluster 4 |
| 18,583.5 | 18,585.5 | | 4.0 | 8 | Stage 1 Cluster 1 |
| 18,588.5 | 18,590.5 | | 4.0 | 8 | Stage 1 Cluster 3 |
| 18,643.5 | 18,645.5 | | 4.0 | 8 | Stage 1 Cluster 1 |
| 18,648.5 | 18,650.5 | | 4.0 | 8 | Stage 1 Cluster 2 |
| 18,703.5 | 18,705.5 | | 4.0 | 8 | Stage 1 Cluster 1 |
| 18,708.5 | 18,710.5 | | 4.0 | 8 | Stage 1 Cluster 1 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Stimulations & Treatments (Actual)

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|---------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/23/2013 | Stage 1 | Pioneer Pumping Services | 18,468.5 | 18,710.5 | Brady 1 Bulk Sand 8004 lb; Brady 2 Bulk Sand 3780 lb | 5,979.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/23/2013 | Stage 1A | Pioneer Pumping Services | 18,463.5 | 18,705.5 | Brady 1 Bulk Sand 86084 lb; Brady 2 Bulk Sand 98584 lb; Brady 3 Bulk Sand 165396 lb; Brady 4 Bulk Sa | 10,859.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|---------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/24/2013 | Stage 2 | Pioneer Pumping Services | 18,168.5 | 18,410.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 7,650.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|---------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/24/2013 | Stage 3 | Pioneer Pumping Services | 17,868.5 | 18,110.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 7,801.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|-------------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/24/2013 | Stage 4 - A | Pioneer Pumping Services | 17,568.5 | 17,810.5 | Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 23852 lb | 5,134.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|---------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/27/2013 | Stage 6 | Pioneer Pumping Services | 16,968.5 | 17,210.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,555.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|---------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/28/2013 | Stage 7 | Pioneer Pumping Services | 16,668.5 | 16,910.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,885.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|---------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/28/2013 | Stage 8 | Pioneer Pumping Services | 16,368.5 | 16,610.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 7,980.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|---------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/28/2013 | Stage 9 | Pioneer Pumping Services | 16,068.5 | 16,310.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,796.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/29/2013 | Stage 10 | Pioneer Pumping Services | 15,768.5 | 16,010.5 | Brady 1 Bulk Sand 60845 lb; Brady 2 Bulk Sand 93366 lb; Brady 3 Bulk Sand 94817 lb; Brady 4 Bulk San | 7,864.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 9/29/2013 | Stage 11 | Pioneer Pumping Services | 15,468.5 | 15,710.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 7,669.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/2/2013 | Stage 12 | Pioneer Pumping Services | 15,168.5 | 15,410.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 7,563.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/3/2013 | Stage 13 | Pioneer Pumping Services | 14,868.5 | 15,110.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,827.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/3/2013 | Stage 14 | Pioneer Pumping Services | 14,568.5 | 14,810.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,791.00 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Stimulations & Treatments (Actual)

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|---|--------------------------|
| 10/3/2013 | Stage 15 | Pioneer Pumping Services | 14,268.5 | 14,510.5 | 0; Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk | 9,271.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|---|--------------------------|
| 10/4/2013 | Stage 16 | Pioneer Pumping Services | 13,968.5 | 14,210.5 | 0; Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk | 7,817.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/5/2013 | Stage 17 | Pioneer Pumping Services | 13,668.5 | 13,910.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 7,827.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/5/2013 | Stage 18 | Pioneer Pumping Services | 13,368.5 | 13,610.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 10,100.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/6/2013 | Stage 19 | Pioneer Pumping Services | 13,068.5 | 13,310.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,680.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/6/2013 | Stage 20 | Pioneer Pumping Services | 12,768.5 | 13,010.5 | Brady 1 Bulk Sand 61795 lb; Brady 2 Bulk Sand 93736 lb; Brady 3 Bulk Sand 96971 lb; Brady 4 Bulk San | 7,426.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/7/2013 | Stage 21 | Pioneer Pumping Services | 12,468.5 | 12,710.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,619.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/7/2013 | Stage 22 | Pioneer Pumping Services | 12,168.5 | 12,410.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 7,623.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/8/2013 | Stage 23 | Pioneer Pumping Services | 11,868.5 | 12,110.5 | Brady 1 Bulk Sand 58271 lb; Brady 2 Bulk Sand 89971 lb; Brady 3 Bulk Sand 93443 lb; Brady 4 Bulk San | 7,338.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/8/2013 | Stage 24 | Pioneer Pumping Services | 11,568.5 | 11,810.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,546.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/9/2013 | Stage 25 | Pioneer Pumping Services | 11,268.5 | 11,510.5 | Brady 1 Bulk Sand 60742 lb; Brady 2 Bulk Sand 96930 lb; Brady 3 Bulk Sand 85055 lb; Brady 4 Bulk San | 7,819.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/9/2013 | Stage 26 | Pioneer Pumping Services | 10,968.5 | 11,210.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,546.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|-----------|----------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| 10/9/2013 | Stage 27 | Pioneer Pumping Services | 10,668.5 | 10,910.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 8,782.00 |

<Comment?>, WOLFCAMP, Original Hole

| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
|------------|----------|--------------------------|-----------------------|-----------------------|--------------------------|--------------------------|
| 10/10/2013 | Stage 28 | Pioneer Pumping Services | 10,368.5 | 10,610.5 | 2000# slug 20/40 2213 lb | 4,059.00 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Stimulations & Treatments (Actual)

| <Comment?>, WOLFCAMP, Original Hole | | | | | | |
|-------------------------------------|------------|--------------------------|-----------------------|-----------------------|--|--------------------------|
| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
| 10/10/2013 | Stage 28 B | Pioneer Pumping Services | 10,368.5 | 10,610.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 6,637.00 |
| <Comment?>, WOLFCAMP, Original Hole | | | | | | |
| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
| 10/11/2013 | Stage 29 | Pioneer Pumping Services | 10,068.5 | 10,310.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 6,759.00 |
| <Comment?>, WOLFCAMP, Original Hole | | | | | | |
| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
| 10/11/2013 | Stage 30 | Pioneer Pumping Services | 9,768.5 | 10,010.5 | | 3,822.00 |
| <Comment?>, WOLFCAMP, Original Hole | | | | | | |
| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
| 10/12/2013 | Stage 31 | Pioneer Pumping Services | 9,468.5 | 9,710.5 | Brady 1 Bulk Sand 89517 lb; Brady 2 Bulk Sand 172653 lb; Brady 3 Bulk Sand 149209 lb; Brady 4 Bulk S | 9,374.00 |
| <Comment?>, WOLFCAMP, Original Hole | | | | | | |
| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
| 10/12/2013 | Stage 32 | Pioneer Pumping Services | 9,168.5 | 9,410.5 | Brady 1 Bulk Sand 61250 lb; Brady 2 Bulk Sand 90500 lb; Brady 3 Bulk Sand 93125 lb; Brady 4 Bulk San | 7,659.00 |
| <Comment?>, WOLFCAMP, Original Hole | | | | | | |
| Date | Type | Stim/Treat Company | Min Top Depth (ftGRD) | Max Btm Depth (ftGRD) | Total Add Amount | Total Clean Volume (bbl) |
| 10/12/2013 | Stage 33 | Pioneer Pumping Services | 8,868.5 | 9,110.5 | Brady 1 Bulk Sand 57500 lb; Brady 2 Bulk Sand 85000 lb; Brady 3 Bulk Sand 87500 lb; Brady 4 Bulk San | 7,239.00 |

Zones

| Zone Name | Top (ftGRD) |
|-----------|-------------|
| WOLFCAMP | |

Tubing Details

| Tubing Description | Set Depth (ftGRD) | Run Date |
|---------------------|-------------------|-----------|
| Tubing - Production | 8,696.8 | 11/6/2013 |

Tubing Components

| Item Des | OD (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) | Btm (ftGRD) |
|------------------|---------|------------|-------|----------|-----|-------------|-------------|
| Tubing Hanger | 4.89 | | | 0.75 | | 0.6 | 1.3 |
| Tubing | 2 7/8 | 6.40 | L-80 | 31.30 | 1 | 1.3 | 32.6 |
| Tubing Pup Joint | 2 7/8 | 6.40 | L-80 | 2.00 | 1 | 32.6 | 34.6 |
| Tubing Pup Joint | 2 7/8 | 6.40 | L-80 | 8.00 | 1 | 34.6 | 42.6 |
| Tubing Pup Joint | 2 7/8 | 6.40 | L-80 | 10.00 | 1 | 42.6 | 52.6 |
| Tubing | 2 7/8 | 6.40 | L-80 | 2,272.77 | 73 | 52.6 | 2,325.4 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 2,325.4 | 2,329.4 |
| Tubing | 2 7/8 | 6.40 | L-80 | 991.75 | 32 | 2,329.4 | 3,321.1 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 3,321.1 | 3,325.1 |
| Tubing | 2 7/8 | 6.40 | L-80 | 499.91 | 16 | 3,325.1 | 3,825.0 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 3,825.0 | 3,829.0 |
| Tubing | 2 7/8 | 6.40 | L-80 | 497.73 | 16 | 3,829.0 | 4,326.8 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 4,326.8 | 4,330.8 |
| Tubing | 2 7/8 | 6.40 | L-80 | 491.51 | 16 | 4,330.8 | 4,822.3 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 4,822.3 | 4,826.3 |
| Tubing | 2 7/8 | 6.40 | L-80 | 498.31 | 16 | 4,826.3 | 5,324.6 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 5,324.6 | 5,328.6 |
| Tubing | 2 7/8 | 6.40 | L-80 | 494.48 | 16 | 5,328.6 | 5,823.1 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 5,823.1 | 5,827.1 |
| Tubing | 2 7/8 | 6.40 | L-80 | 499.81 | 16 | 5,827.1 | 6,326.9 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 6,326.9 | 6,330.9 |
| Tubing | 2 7/8 | 6.40 | L-80 | 500.33 | 16 | 6,330.9 | 6,831.2 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 6,831.2 | 6,835.2 |
| Tubing | 2 7/8 | 6.40 | L-80 | 498.02 | 16 | 6,835.2 | 7,333.2 |
| Gas Lift Mandrel | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 7,333.2 | 7,337.2 |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

| Tubing Components | | | | | | | | | | |
|---|-------------|-------------|---------|------------|-------------------|-------------|-------------|---------------------------|---------------|----|
| Item Des | | | OD (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) | Btm (ftGRD) | |
| Tubing | | | 2 7/8 | 6.40 | L-80 | 431.86 | 14 | 7,337.2 | 7,769.1 | |
| Gas Lift Mandrel | | | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 7,769.1 | 7,773.1 | |
| Tubing | | | 2 7/8 | 6.40 | L-80 | 437.83 | 14 | 7,773.1 | 8,210.9 | |
| Gas Lift Mandrel | | | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 8,210.9 | 8,214.9 | |
| Tubing | | | 2 7/8 | 6.40 | L-80 | 438.17 | 14 | 8,214.9 | 8,653.1 | |
| Gas Lift Mandrel | | | 2 7/8 | 6.40 | L-80 | 4.00 | 1 | 8,653.1 | 8,657.1 | |
| Tubing | | | 2 7/8 | 6.40 | L-80 | 31.31 | 1 | 8,657.1 | 8,688.4 | |
| On-Off Tool-2.313" - 2.21" No Go XN profile | | | 2 7/8 | | | 0.70 | 1 | 8,688.4 | 8,689.1 | |
| AS1 2 7/8 X 5 1/2 (PCS Ferguson) | | | 2 7/8 | | | 7.30 | 1 | 8,689.1 | 8,696.4 | |
| Pump out plug | | | 2 7/8 | | | 0.40 | 1 | 8,696.4 | 8,696.8 | |
| Rod Strings | | | | | | | | | | |
| Rod Description | | | | | Set Depth (ftGRD) | | | Run Date | | |
| Rod Components | | | | | | | | | | |
| Item Des | OD (in) | Wt (lb/ft) | Grade | Len (ft) | Jts | Top (ftGRD) | Btm (ftGRD) | Make | Model | SN |
| | | | | | | | | | | |
| Other In Hole | | | | | | | | | | |
| Des | Top (ftGRD) | Btm (ftGRD) | OD (in) | Run Date | Pull Date | Com | | String | Wellbore | |
| Composite Plug 1 | 18,439.5 | 18,441.5 | 4.89 | 9/23/2013 | 11/5/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 2 | 18,139.5 | 18,141.5 | 4.89 | 9/24/2013 | 11/4/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 3 | 17,839.5 | 17,841.5 | 4.89 | 9/24/2013 | 11/4/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 6 | 16,939.5 | 16,941.5 | 4.89 | 9/27/2013 | 11/4/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 7 | 16,639.5 | 16,641.5 | 4.89 | 9/28/2013 | 11/4/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 8 | 16,339.5 | 16,341.5 | 4.89 | 9/28/2013 | 11/4/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 9 | 16,039.5 | 16,041.5 | 4.89 | 9/29/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 10 | 15,739.5 | 15,741.5 | 4.89 | 9/29/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 11 | 15,439.5 | 15,441.5 | 4.89 | 9/30/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 12 | 15,139.5 | 15,141.5 | 4.89 | 10/3/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 13 | 14,839.5 | 14,841.5 | 4.89 | 10/3/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 14 | 14,539.5 | 14,541.5 | 4.89 | 10/4/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 15 | 14,239.5 | 14,241.5 | 4.89 | 10/4/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 16 | 13,939.5 | 13,941.5 | 4.89 | 10/4/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 17 | 13,634.5 | 13,636.5 | 4.89 | 10/5/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 18 | 13,339.5 | 13,341.5 | 4.89 | 10/5/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 19 | 13,039.5 | 13,041.5 | 4.89 | 10/6/2013 | 11/3/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 20 | 12,739.5 | 12,741.5 | 4.89 | 10/6/2013 | 11/2/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 21 | 12,439.5 | 12,441.5 | 4.89 | 10/7/2013 | 11/2/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 22 | 12,139.5 | 12,141.5 | 4.89 | 10/7/2013 | 11/2/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| Composite Plug 23 | 11,839.5 | 11,841.5 | 4.89 | 10/8/2013 | 11/2/2013 | | | Production, 18,820.5ftGRD | Original Hole | |
| | | | | | | | | | | |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

Other In Hole

| Des | Top (ftGRD) | Btm (ftGRD) | OD (in) | Run Date | Pull Date | Com | String | Wellbore |
|-------------------|-------------|-------------|---------|------------|-----------|-----|---------------------------|---------------|
| Composite Plug 24 | 11,539.5 | 11,541.5 | 4.89 | 10/8/2013 | 11/2/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Composite Plug 25 | 11,239.5 | 11,241.5 | 4.89 | 10/9/2013 | 11/2/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Composite Plug 26 | 10,939.5 | 10,941.5 | 4.89 | 10/9/2013 | 11/2/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Composite Plug 27 | 10,623.5 | 10,625.5 | 4.89 | 10/10/2013 | 11/1/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Composite Plug 28 | 10,339.5 | 10,341.5 | 4.89 | 10/10/2013 | 11/1/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Composite Plug 29 | 10,039.5 | 10,041.5 | 4.89 | 10/11/2013 | 11/1/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Composite Plug 31 | 9,439.5 | 9,441.5 | 4.89 | 10/12/2013 | 11/1/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Composite Plug 32 | 9,139.5 | 9,141.5 | 4.89 | 10/12/2013 | 11/1/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Composite Plug 33 | 8,839.5 | 8,841.5 | 4.89 | 10/13/2013 | 11/1/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Bridge Plug | 8,832.5 | 8,834.5 | 4.89 | 10/13/2013 | 11/1/2013 | | Production, 18,820.5ftGRD | Original Hole |
| Packer | 8,688.5 | 8,695.5 | 4.89 | 11/6/2013 | | | Production, 18,820.5ftGRD | Original Hole |

Well Tests

| | | | |
|--------------------------|-----------------------------------|--------------------------------------|-------------------------------------|
| Description BEFORE IP | Volume Oil Total (bbl) 15905.1 | Volume Gas Total (MCF) 11,648.230 | Volume Water Total (bbl) 38769.7 |
|--------------------------|-----------------------------------|--------------------------------------|-------------------------------------|

| 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) |
|------------|----------|-------------------|-----------------|-----------------|-----|-------------------|-------------------|---------------------|
| | | 0.000 | 0.0 | 0.0 | | 0.0 | 0.000 | 0.0 |
| 11/7/2013 | | 24.000 | 450.0 | 0.0 | | 1178.1 | 795.130 | 3400.7 |
| 11/8/2013 | | 24.000 | 320.0 | 0.0 | | 1256.0 | 1,003.000 | 3178.0 |
| 11/9/2013 | | 24.000 | 300.0 | 0.0 | | 917.0 | 827.200 | 2719.0 |
| 11/10/2013 | | 48.000 | 180.0 | 0.0 | | 771.0 | 649.800 | 2401.0 |
| 11/11/2013 | | 64.000 | 140.0 | 0.0 | | 882.0 | 663.000 | 2553.0 |
| 11/12/2013 | | 64.000 | 100.0 | 0.0 | | 794.0 | 567.000 | 2296.0 |
| 11/13/2013 | | 64.000 | 111.0 | 1,024.0 | | 813.0 | 539.000 | 2060.0 |
| 11/14/2013 | | 64.000 | 118.0 | 1,010.0 | | 847.0 | 621.000 | 1976.0 |
| 11/15/2013 | | 64.000 | 120.0 | 1,015.0 | | 702.0 | 532.000 | 1787.0 |
| 11/16/2013 | | 64.000 | 115.0 | 1,008.0 | | 767.0 | 516.000 | 1760.0 |
| 11/17/2013 | | 64.000 | 118.0 | 1,000.0 | | 705.0 | 546.000 | 1667.0 |
| 11/18/2013 | | 64.000 | 112.0 | 994.0 | | 688.0 | 228.000 | 1614.0 |
| 11/19/2013 | | 64.000 | 115.0 | 987.0 | | 773.5 | 831.270 | 3866.2 |
| 11/20/2013 | | 64.000 | 112.0 | 978.0 | | 659.1 | 480.920 | 1433.5 |
| 11/21/2013 | | 64.000 | 66.0 | 929.0 | | 614.0 | 440.000 | 1285.0 |
| 11/22/2013 | | 64.000 | 56.0 | 875.0 | | 127.7 | 76.800 | 262.1 |
| 11/23/2013 | | 64.000 | 56.0 | 875.0 | | 0.0 | 0.000 | 0.2 |
| 11/24/2013 | | 64.000 | 56.0 | 875.0 | | 0.0 | 0.000 | 0.0 |
| 11/29/2013 | | 64.000 | 1,135.0 | 860.0 | | 1321.7 | 421.710 | 1947.4 |
| 11/30/2013 | | 64.000 | 1,050.0 | 1,040.0 | | 1211.2 | 1,166.400 | 1340.8 |
| 12/1/2013 | | 64.000 | 85.0 | 955.0 | | 877.9 | 744.000 | 1222.7 |

Directional Survey

| Date 6/22/2013 | Description MAIN HOLE SURVEY | | | | | | |
|-------------------|---------------------------------|----------|---------|-------------|----------------------|----------------|--|
| Date | MD (ftGRD) | Incl (°) | Azm (°) | TVD (ftGRD) | Unwrap Displace (ft) | Survey Company | |
| 6/23/2013 | 69.29 | 1.08 | 97.20 | 69.28 | 0.90 | VES | |
| 6/23/2013 | 161.69 | 0.46 | 43.67 | 161.68 | 2.03 | VES | |
| 6/23/2013 | 254.09 | 0.00 | 8.11 | 254.08 | 2.41 | VES | |
| 6/23/2013 | 346.49 | 0.89 | 18.54 | 346.47 | 3.12 | VES | |
| 6/23/2013 | 438.89 | 0.87 | 347.85 | 438.86 | 4.49 | VES | |
| 6/23/2013 | 531.29 | 0.68 | 332.25 | 531.25 | 5.73 | VES | |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

| Date | MD (ftGRD) | Incl (°) | Azm (°) | TVD (ftGRD) | Unwrap Displace (ft) | Survey Company |
|-----------|------------|----------|---------|-------------|----------------------|----------------|
| 6/23/2013 | 531.29 | 0.68 | 332.25 | 531.25 | 5.73 | VES |
| 6/24/2013 | 535.50 | 0.53 | 204.12 | 535.46 | 5.75 | MS |
| 6/24/2013 | 587.50 | 0.49 | 178.37 | 587.46 | 6.20 | MS |
| 6/24/2013 | 772.50 | 0.80 | 207.59 | 772.45 | 8.22 | MS |
| 6/24/2013 | 957.50 | 1.10 | 64.20 | 957.44 | 9.29 | MS |
| 6/25/2013 | 1,147.50 | 0.49 | 98.79 | 1,147.42 | 11.82 | MS |
| 6/25/2013 | 1,336.50 | 0.49 | 98.79 | 1,336.41 | 13.44 | MS |
| 6/25/2013 | 1,526.50 | 0.31 | 140.08 | 1,526.41 | 14.68 | MS |
| 6/25/2013 | 1,715.50 | 0.40 | 168.15 | 1,715.41 | 15.82 | MS |
| 6/25/2013 | 1,905.50 | 0.49 | 163.65 | 1,905.40 | 17.30 | MS |
| 6/25/2013 | 2,094.50 | 0.71 | 51.85 | 2,094.39 | 18.45 | MS |
| 6/25/2013 | 2,284.50 | 0.80 | 58.46 | 2,284.38 | 20.94 | MS |
| 6/26/2013 | 2,473.50 | 1.19 | 55.29 | 2,473.35 | 24.23 | MS |
| 6/26/2013 | 2,663.50 | 3.49 | 36.17 | 2,663.18 | 31.90 | MS |
| 6/26/2013 | 2,853.50 | 2.92 | 46.48 | 2,852.88 | 42.48 | MS |
| 6/26/2013 | 3,043.50 | 2.70 | 52.25 | 3,042.66 | 51.78 | MS |
| 6/26/2013 | 3,232.50 | 2.70 | 60.76 | 3,231.45 | 60.66 | MS |
| 6/26/2013 | 3,422.50 | 2.70 | 27.66 | 3,421.25 | 69.24 | MS |
| 6/26/2013 | 3,603.50 | 2.78 | 34.89 | 3,602.04 | 77.88 | MS |
| 6/26/2013 | 3,801.50 | 2.61 | 31.19 | 3,799.82 | 87.18 | MS |
| 6/26/2013 | 3,991.50 | 1.18 | 71.38 | 3,989.72 | 93.14 | MS |
| 6/26/2013 | 4,180.50 | 1.50 | 146.13 | 4,178.68 | 96.67 | MS |
| 6/26/2013 | 4,370.50 | 2.21 | 223.19 | 4,368.60 | 101.53 | MS |
| 6/26/2013 | 4,560.50 | 1.81 | 223.67 | 4,558.49 | 108.20 | MS |
| 6/26/2013 | 4,749.50 | 1.19 | 217.68 | 4,747.42 | 113.14 | MS |
| 6/26/2013 | 4,939.50 | 1.02 | 210.59 | 4,937.39 | 116.80 | MS |
| 6/26/2013 | 5,128.50 | 0.71 | 198.69 | 5,126.36 | 119.63 | MS |
| 6/26/2013 | 5,317.50 | 0.40 | 198.29 | 5,315.36 | 121.46 | MS |
| 6/26/2013 | 5,507.50 | 0.40 | 188.46 | 5,505.35 | 122.79 | MS |
| 6/28/2013 | 5,696.50 | 0.22 | 52.66 | 5,694.35 | 123.26 | MS |
| 6/28/2013 | 5,886.50 | 0.22 | 65.78 | 5,884.35 | 123.98 | MS |
| 6/28/2013 | 6,076.50 | 0.60 | 71.90 | 6,074.34 | 125.34 | MS |
| 6/28/2013 | 6,265.50 | 1.28 | 14.49 | 6,263.32 | 128.11 | MS |
| 6/28/2013 | 6,455.50 | 0.49 | 326.17 | 6,453.30 | 130.85 | MS |
| 6/28/2013 | 6,644.50 | 0.49 | 318.37 | 6,642.29 | 132.46 | MS |
| 6/28/2013 | 6,834.50 | 0.09 | 315.86 | 6,832.29 | 133.42 | MS |
| 6/28/2013 | 7,023.50 | 0.09 | 198.29 | 7,021.29 | 133.57 | MS |
| 6/28/2013 | 7,213.50 | 0.22 | 229.75 | 7,211.29 | 134.07 | MS |
| 6/28/2013 | 7,402.50 | 0.09 | 198.95 | 7,400.29 | 134.57 | MS |
| 6/28/2013 | 7,591.50 | 0.40 | 176.79 | 7,589.28 | 135.37 | MS |
| 6/28/2013 | 7,781.50 | 0.49 | 179.16 | 7,779.28 | 136.84 | MS |
| 6/28/2013 | 7,970.50 | 0.62 | 166.47 | 7,968.27 | 138.66 | MS |
| 6/28/2013 | 8,083.50 | 0.62 | 166.47 | 8,081.26 | 139.88 | MS |
| 6/28/2013 | 8,105.50 | 0.60 | 133.30 | 8,103.26 | 140.11 | MS |
| 6/28/2013 | 8,168.50 | 0.20 | 127.40 | 8,166.26 | 140.55 | MS |
| 6/28/2013 | 8,263.50 | 3.20 | 175.70 | 8,261.21 | 143.31 | MS |
| 6/28/2013 | 8,358.50 | 7.20 | 192.20 | 8,355.80 | 151.85 | MS |
| 6/28/2013 | 8,453.50 | 16.70 | 207.60 | 8,448.66 | 171.35 | MS |
| 6/28/2013 | 8,547.50 | 25.30 | 199.40 | 8,536.35 | 204.93 | MS |
| 6/28/2013 | 8,642.50 | 34.80 | 197.20 | 8,618.49 | 252.44 | MS |
| 6/28/2013 | 8,737.50 | 40.10 | 197.90 | 8,693.88 | 310.18 | MS |
| 7/18/2013 | 8,832.50 | 50.20 | 193.80 | 8,760.81 | 377.42 | MS |
| 7/18/2013 | 8,926.50 | 61.00 | 194.30 | 8,813.84 | 454.86 | MS |
| 7/18/2013 | 9,021.50 | 73.10 | 197.20 | 8,850.82 | 542.17 | MS |
| 7/18/2013 | 9,116.50 | 85.20 | 192.30 | 8,868.68 | 635.27 | MS |
| 7/18/2013 | 9,211.50 | 89.80 | 182.40 | 8,872.83 | 730.03 | MS |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

| Date | MD (ftGRD) | Incl (°) | Azm (°) | TVD (ftGRD) | Unwrap Displace (ft) | Survey Company |
|-----------|------------|----------|---------|-------------|----------------------|----------------|
| 7/18/2013 | 9,264.50 | 89.80 | 182.40 | 8,873.02 | 783.03 | MS |
| 7/18/2013 | 9,306.50 | 90.70 | 184.20 | 8,872.83 | 825.03 | MS |
| 7/19/2013 | 9,400.50 | 91.30 | 184.90 | 8,871.19 | 919.02 | MS |
| 7/19/2013 | 9,495.50 | 92.50 | 185.00 | 8,868.04 | 1,013.96 | MS |
| 7/19/2013 | 9,590.50 | 92.40 | 184.80 | 8,863.98 | 1,108.87 | MS |
| 7/19/2013 | 9,685.50 | 92.80 | 184.60 | 8,859.67 | 1,203.78 | MS |
| 7/19/2013 | 9,874.50 | 90.30 | 180.00 | 8,854.56 | 1,392.64 | MS |
| 7/19/2013 | 10,064.50 | 90.50 | 180.30 | 8,853.23 | 1,582.64 | MS |
| 7/19/2013 | 10,253.50 | 90.60 | 180.30 | 8,851.42 | 1,771.63 | MS |
| 7/19/2013 | 10,443.50 | 92.30 | 181.50 | 8,846.61 | 1,961.56 | MS |
| 7/22/2013 | 10,633.50 | 96.70 | 181.60 | 8,831.71 | 2,150.92 | MS |
| 7/22/2013 | 10,728.50 | 94.70 | 181.20 | 8,822.27 | 2,245.45 | MS |
| 7/22/2013 | 10,823.50 | 93.90 | 181.20 | 8,815.15 | 2,340.18 | MS |
| 7/23/2013 | 10,917.50 | 92.80 | 179.80 | 8,809.65 | 2,434.02 | MS |
| 7/23/2013 | 11,012.50 | 91.60 | 180.10 | 8,806.01 | 2,528.95 | MS |
| 7/23/2013 | 11,107.50 | 88.60 | 179.20 | 8,805.84 | 2,623.93 | MS |
| 7/23/2013 | 11,202.50 | 90.20 | 179.40 | 8,806.84 | 2,718.93 | MS |
| 7/23/2013 | 11,296.50 | 91.00 | 179.20 | 8,805.85 | 2,812.92 | MS |
| 7/23/2013 | 11,391.50 | 91.30 | 181.30 | 8,803.95 | 2,907.89 | MS |
| 7/23/2013 | 11,486.50 | 90.20 | 180.70 | 8,802.70 | 3,002.88 | MS |
| 7/23/2013 | 11,581.50 | 92.70 | 182.20 | 8,800.30 | 3,097.84 | MS |
| 7/23/2013 | 11,676.50 | 92.80 | 181.40 | 8,795.74 | 3,192.73 | MS |
| 7/23/2013 | 11,771.50 | 90.20 | 180.80 | 8,793.25 | 3,287.69 | MS |
| 7/23/2013 | 11,960.50 | 87.30 | 182.20 | 8,797.38 | 3,476.62 | MS |
| 7/23/2013 | 12,150.50 | 88.20 | 182.10 | 8,804.84 | 3,666.47 | MS |
| 7/23/2013 | 12,245.50 | 89.70 | 181.90 | 8,806.58 | 3,761.46 | MS |
| 7/23/2013 | 12,339.50 | 90.00 | 181.80 | 8,806.82 | 3,855.46 | MS |
| 7/23/2013 | 12,434.50 | 89.50 | 181.80 | 8,807.24 | 3,950.45 | MS |
| 7/23/2013 | 12,529.50 | 89.30 | 183.70 | 8,808.23 | 4,045.44 | MS |
| 7/23/2013 | 12,624.50 | 90.70 | 184.80 | 8,808.23 | 4,140.44 | MS |
| 7/23/2013 | 12,718.50 | 90.90 | 182.20 | 8,806.92 | 4,234.42 | MS |
| 7/23/2013 | 12,813.50 | 90.40 | 182.20 | 8,805.84 | 4,329.42 | MS |
| 7/23/2013 | 12,908.50 | 89.30 | 179.50 | 8,806.09 | 4,424.41 | MS |
| 7/25/2013 | 13,002.50 | 89.80 | 182.50 | 8,806.83 | 4,518.39 | MS |
| 7/25/2013 | 13,097.50 | 90.00 | 183.60 | 8,806.99 | 4,613.39 | MS |
| 7/25/2013 | 13,192.50 | 90.20 | 184.20 | 8,806.83 | 4,708.39 | MS |
| 7/25/2013 | 13,287.50 | 90.70 | 183.10 | 8,806.08 | 4,803.39 | MS |
| 7/26/2013 | 13,382.50 | 90.90 | 183.60 | 8,804.76 | 4,898.38 | MS |
| 7/26/2013 | 13,477.50 | 91.30 | 183.00 | 8,802.93 | 4,993.36 | MS |
| 7/26/2013 | 13,571.50 | 90.50 | 181.20 | 8,801.46 | 5,087.34 | MS |
| 7/26/2013 | 13,666.50 | 91.40 | 181.00 | 8,799.88 | 5,182.33 | MS |
| 7/26/2013 | 13,761.50 | 90.90 | 180.70 | 8,797.97 | 5,277.31 | MS |
| 7/26/2013 | 13,856.50 | 90.30 | 180.80 | 8,796.98 | 5,372.30 | MS |
| 7/26/2013 | 13,951.50 | 88.40 | 179.60 | 8,798.06 | 5,467.29 | MS |
| 7/26/2013 | 14,045.50 | 88.50 | 179.30 | 8,800.60 | 5,561.26 | MS |
| 7/26/2013 | 14,135.50 | 88.20 | 179.10 | 8,803.19 | 5,651.22 | MS |
| 7/26/2013 | 14,140.50 | 88.90 | 180.30 | 8,803.32 | 5,656.22 | MS |
| 7/26/2013 | 14,235.50 | 88.20 | 179.10 | 8,805.72 | 5,751.18 | MS |
| 7/26/2013 | 14,330.50 | 90.30 | 180.20 | 8,806.97 | 5,846.17 | MS |
| 7/26/2013 | 14,425.50 | 89.40 | 179.90 | 8,807.21 | 5,941.17 | MS |
| 7/26/2013 | 14,520.50 | 89.10 | 179.30 | 8,808.46 | 6,036.16 | MS |
| 7/26/2013 | 14,615.50 | 90.40 | 181.00 | 8,808.87 | 6,131.15 | MS |
| 7/26/2013 | 14,709.50 | 89.50 | 180.00 | 8,808.95 | 6,225.15 | MS |
| 7/27/2013 | 14,804.50 | 90.10 | 180.00 | 8,809.29 | 6,320.15 | MS |
| 7/27/2013 | 14,899.50 | 90.00 | 180.80 | 8,809.20 | 6,415.15 | MS |
| 7/27/2013 | 14,994.50 | 90.50 | 182.10 | 8,808.79 | 6,510.14 | MS |

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 14H

| Date | MD (ftGRD) | Incl (°) | Azm (°) | TVD (ftGRD) | Unwrap Displace (ft) | Survey Company |
|-----------|------------|----------|---------|-------------|----------------------|----------------|
| 7/27/2013 | 15,088.50 | 89.40 | 181.10 | 8,808.87 | 6,604.14 | MS |
| 7/27/2013 | 15,183.50 | 90.10 | 181.40 | 8,809.28 | 6,699.14 | MS |
| 7/27/2013 | 15,278.50 | 90.10 | 181.70 | 8,809.12 | 6,794.14 | MS |
| 7/27/2013 | 15,373.50 | 89.40 | 181.20 | 8,809.53 | 6,889.14 | MS |
| 7/27/2013 | 15,468.50 | 90.70 | 182.00 | 8,809.45 | 6,984.14 | MS |
| 7/27/2013 | 15,563.50 | 92.00 | 181.60 | 8,807.21 | 7,079.11 | MS |
| 7/27/2013 | 15,657.50 | 88.30 | 179.60 | 8,806.97 | 7,173.09 | MS |
| 7/27/2013 | 15,752.50 | 90.50 | 181.10 | 8,807.96 | 7,268.07 | MS |
| 7/27/2013 | 15,847.50 | 92.70 | 181.50 | 8,805.31 | 7,363.03 | MS |
| 7/27/2013 | 15,942.50 | 89.80 | 181.10 | 8,803.24 | 7,458.00 | MS |
| 7/27/2013 | 16,037.50 | 90.30 | 180.40 | 8,803.15 | 7,552.99 | MS |
| 7/27/2013 | 16,131.50 | 89.40 | 179.50 | 8,803.40 | 7,646.99 | MS |
| 7/28/2013 | 16,226.50 | 89.40 | 178.90 | 8,804.39 | 7,741.99 | MS |
| 7/28/2013 | 16,321.50 | 88.70 | 178.70 | 8,805.97 | 7,836.97 | MS |
| 7/28/2013 | 16,416.50 | 88.40 | 178.60 | 8,808.37 | 7,931.94 | MS |
| 7/29/2013 | 16,510.50 | 87.80 | 178.90 | 8,811.49 | 8,025.89 | MS |
| 7/29/2013 | 16,605.50 | 89.90 | 180.30 | 8,813.40 | 8,120.86 | MS |
| 7/29/2013 | 16,700.50 | 90.80 | 180.60 | 8,812.82 | 8,215.86 | MS |
| 7/29/2013 | 16,795.50 | 89.90 | 181.60 | 8,812.24 | 8,310.86 | MS |
| 7/30/2013 | 16,889.50 | 89.80 | 180.60 | 8,812.48 | 8,404.86 | MS |
| 7/30/2013 | 16,984.50 | 90.60 | 182.90 | 8,812.15 | 8,499.85 | MS |
| 7/30/2013 | 17,079.50 | 91.30 | 183.20 | 8,810.58 | 8,594.83 | MS |
| 7/30/2013 | 17,174.50 | 91.30 | 183.80 | 8,808.42 | 8,689.81 | MS |
| 7/30/2013 | 17,269.50 | 91.70 | 183.90 | 8,805.93 | 8,784.78 | MS |
| 7/30/2013 | 17,364.50 | 91.80 | 182.90 | 8,803.03 | 8,879.73 | MS |
| 7/30/2013 | 17,458.50 | 91.70 | 184.00 | 8,800.16 | 8,973.69 | MS |
| 7/30/2013 | 17,553.50 | 90.40 | 182.70 | 8,798.42 | 9,068.67 | MS |
| 7/30/2013 | 17,648.50 | 89.10 | 181.10 | 8,798.83 | 9,163.66 | MS |
| 7/30/2013 | 17,743.50 | 88.70 | 179.70 | 8,800.66 | 9,258.64 | MS |
| 7/30/2013 | 17,837.50 | 88.80 | 178.50 | 8,802.71 | 9,352.62 | MS |
| 7/30/2013 | 17,932.50 | 89.60 | 178.80 | 8,804.04 | 9,447.61 | MS |
| 7/30/2013 | 18,027.50 | 89.50 | 179.40 | 8,804.78 | 9,542.60 | MS |
| 7/30/2013 | 18,122.50 | 89.20 | 178.50 | 8,805.86 | 9,637.59 | MS |
| 7/30/2013 | 18,217.50 | 88.40 | 179.00 | 8,807.85 | 9,732.57 | MS |
| 7/31/2013 | 18,312.50 | 88.20 | 178.40 | 8,810.67 | 9,827.53 | MS |
| 7/31/2013 | 18,406.50 | 90.50 | 182.00 | 8,811.73 | 9,921.50 | MS |
| 7/31/2013 | 18,501.50 | 90.40 | 180.80 | 8,810.99 | 10,016.50 | MS |
| 7/31/2013 | 18,596.50 | 89.50 | 180.50 | 8,811.07 | 10,111.50 | MS |
| 7/31/2013 | 18,690.50 | 89.00 | 180.90 | 8,812.30 | 10,205.49 | MS |
| 7/31/2013 | 18,771.50 | 89.00 | 180.30 | 8,813.72 | 10,286.48 | MS |
| 7/31/2013 | 18,825.50 | 89.00 | 180.30 | 8,814.66 | 10,340.47 | MS |