

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

API/UWI 42-461-39360-0000	Property Sub 927297-012	Operator PIONEER NATURAL RESRC USA, INC	State TEXAS	County UPTON
Field Name SPRABERRY (TREND AREA)		Surface Legal Location 2273' FSL/ 1247' FEL, SEC: 11, BLK: 3, AB: A-11U, SVY: UNIVERSITY LANDS		
Spud Date 7/23/2014	TD Date 8/8/2014	Drilling Rig Release Date 8/11/2014	Frac Date 10/2/2014	On Production Date
Ground Elevation (ft) 2,709.00	Original KB Elevation (ft) 2,737.50	PBTD (All) (ftKB)	Total Depth (All) (ftKB) Original Hole - 17,071.0	Total Depth All (TVD) (ftKB) Original Hole - 8,709.9
<b>Report #: 1 Daily Operation: 7/22/2014 22:30 - 7/23/2014 06:00</b>				
Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 031484
Days From Spud (days) 0	Days on Location (days) 0	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal) 8.50
Rig PATTERSON - UTI, 245				
Operations Summary Skid rig f/ University 3-14-13H to University 3-14-12H, rig up misc. Pick up directional assembly.				
Remarks Rig (Patterson 245) & Well Progress: 21.00 days on location, .14 days since rig accepted on, 0 days since spud. Rig move day's 6.00				
Rig NPT: 0 hours for previous 24 hours. 66.75 NPT hours for July.				
Completion percentage: Surface- 0%, Intermediate- 0%, Curve- 0%, Lateral- 0%				
Line Proximity: ' Above, ' Left of Plan #2				
Estimated Pad Completion: 10/1/2014				
<b>Time Log Summary</b>				
Operation	Com			Dur (hr)
B_SKID	Skid rig F/University 3-14-13H to University 3-14-12H. Center rig to hole, witnessed by Pioneer rep. Finish miscellaneous rigging up. Pressure test vibrator lines 3,000 psi (ok).  ? Rig accepted @ 0230 hours 7-23-14.			4
B_SKID	Continue rigging up cellar pumps and running hoses, to shakers.			1
BHA_HAN DLING	Pick up 9 5/8" 6/7_4.0_0.15 rev/gal Mpart mud motor set @ 1.83°. MU XO bored for float, 17 1/4" stabilizer, NM pony collar, and UBHO sub. Scribe motor bend up to UBHO. MU tool carrier and install Pathfinder MWD tool. MU 17 1/2" Security SF75 dressed with 9/14's (1.353 tfa). Make up top monel and 1 joint 5" HWDP.  ? Tag @ 146.5'			2
CIRC	Flush out conductor and test cellar pumps. (ok)			0.5
<b>Report #: 2 Daily Operation: 7/23/2014 06:00 - 7/24/2014 06:00</b>				
Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 031484
Days From Spud (days) 1	Days on Location (days) 1	End Depth (ftKB) 1,105.0	End Depth (TVD) (ftKB) 1,104.7	Dens Last Mud (lb/gal) 8.50
Rig PATTERSON - UTI, 245				
Operations Summary Cont. picking up directional assembly, run in hole with same tag up @ 146'. Drill f/ 146' - 1,105', pump 50 bbl viscous sweep surface to surface. TOOHL, lay down directional assembly. Rig up casing crew, run 13-3/8" casing f/ surface to 1,105'. Circulate 1.5x casing capacity. (Full returns to surface)				
Remarks Rig (Patterson 245) & Well Progress: 22.00 days on location, 1.14 days since rig accepted on, 1 days since spud. Rig move day's 6.00				
Rig NPT: 0 hours for previous 24 hours. 66.75 NPT hours for July.				
Completion percentage: Surface- 100%, Intermediate- 0%, Curve- 0%, Lateral- 0%				
Line Proximity: ' Above, ' Left of Plan #2				
Estimated Pad Completion: 10/1/2014				
Notified TRRC 7/23/14 @ 15:25 of surface cement. Talked with Ivy. Job # 6126				
<b>Time Log Summary</b>				
Operation	Com			Dur (hr)
DRL_ROT	Spud well @ 06:00 7/23/14 Rotate Drill 17-1/2" Surface Hole 154' @ 44'/Hr, 130 spm, 535 gpm, 854 spp, 486 diff, 35 top drive rpm, 80 motor rpm, 15 -20M#, 5 - 8k ft/lbs tq. Full returns to surface.  Note: Drop soap stick & polymer stick on every stand. Pumping 25 bbl viscous sweeps every stand to maintain clean hole. Taking a survey every 100'.			3.5
DRL_SLID E	Slide drill 17 1/2" Surface hole 12' @ 48 ft/hr, spm 130, spp 1050, gpm 555, mmrpm 83, tq. 4k, wob 12, diff.260.{TF 200 mag.}			0.25

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 17-1/2" Surface Hole 154' @ 44'/Hr, 154 spm, 645 gpm, 1300 spp, 450 diff, 80 top drive rpm, 98 motor rpm, 25 wob, 5 - 8k ft/lbs trq. Full returns to surface.  Note: Drop soap stick & polymer stick on every stand. Pumping 25 bbl viscous sweeps every stand to maintain clean hole. Taking a survey every 100'.	1.5
U_MTR	Re-cycling pumps, trouble shoot mwd. Noise	0.75
DRL_SLIDE	Slide drill 17 1/2" Surface hole 15' @ 30 ft/hr, spm 154, spp 1050, gpm 645, mmrpm 98, tq. 7k, wob 8, diff.200.{TF 270 mag.}	0.5
DRL_ROT	Rotate Drill 17-1/2" Surface Hole 602' @ 105'/Hr, 174 spm, 729 gpm, 1550 spp, 550 diff, 80 top drive rpm, 109 motor rpm, 20/25 wob, 5-8k ft/lbs trq. Full returns to surface. TD 17 1/2" Surface Section.  Note: Drop soap stick & polymer stick on every stand. Pumping 25 bbl viscous sweeps every stand to maintain clean hole. Taking a survey every 100'.	5.75
CIRC	Pump 50 bbl high vis sweep, circ. shakers clean @ 786 gpm, 80 rpm, working pipe. Preperation for TOOH to run 13 3/8" casing.	1.25
TOOH	TOOH F/ 1,105' to 207'. (no overpulls)	1
BHA_HAN DLING	Pulled and racked 5" HWDP and 8" DCs in derrick. Laid down MWD, laid down bit and mud motor.	2.25
BHA_HAN DLING	Clean and clear rig floor rig down 5" elevators.	1
CASE	Held PJSM with Tesco casing crew. Rig up casing crew equipment.	1.5
CASE	Ran 27 joints 13-3/8"OD, 54.5 PPF, J-55, BTC casing-OAL- 1,105 feet. shoe track 43.22'. Thread locked casing shoe and top of float collar. Ran stop rings and centralizers on joint # 1 & 2, continued running centralizers every 4th joint to 207'. Full returns throughout casing run.	3
CIRC	Circulate 1.5x casing capacity. Full returns to surface.	1.75

**Report #: 3 Daily Operation: 7/24/2014 06:00 - 7/25/2014 06:00**

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 031484	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
2	2	1,105.0	1,104.7	8.50	PATTERSON - UTI, 245

Operations Summary  
Cement 13-3/8" surface casing. Installed A section on 13-3/8" surface casing, test void to 570 psi.(good test) Nipple up and test bop's. Test casing to 1,000 psi for 30 mins. (good test). Perform koomy draw down test. (good test) Hook up turn buckles, center stack, install dresser sleeve on flowline.

Remarks  
Rig (Patterson 245) & Well Progress: 23.00 days on location, 2.14 days since rig accepted on, 2 days since spud. Rig move day's 6.00  
  
Rig NPT: 0 hours for previous 24 hours. 66.75 NPT hours for July.  
  
Completion percentage: Surface- 100%, Intermediate- 0%, Curve- 0%, Lateral- 0%  
  
Line Proximity: ' Above, ' Left of Plan #2  
  
Estimated Pad Completion: 10/1/2014

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Time Log Summary

Operation	Com	Dur (hr)
CMT	<p>Rig up Cementers witnessed loading of top plug. PJSM with Crest, Patterson, and PNR representative's on rig floor on cementing operations. Test lines to 3,500 psi, good test. Cemented 13-3/8" 54.5 ppf J-55 BTC Surface Casing as follows:</p> <p>Water spacer: 40 bbls @ 8.33 lb/gal.</p> <p>Lead Cement: 141 bbls 65/35 Poz C: 415 sks 12.8 ppg (93 lb/sk of Blend) of Lead Cement, Yield 1.91 ft<sup>3</sup>/sk, Mix water 9.40 gal/sk, Mix fluids 9.40 gal/sk with 6.0% Bentonite Gel, Sodium Chloride (Salt) 3.0%, Cellophane Flakes 0.25 lb/sx, Kol Seal 3.0 lb/sx. Start Lead @ 07:29 hrs on 7/2/2014</p> <p>Tail Cement: 107 bbls Class C (Premium Plus): 345 sks 13.6 ppg (94 lb/sk of Blend) of class H Tail Cement, Yield 1.75 ft<sup>3</sup>/sk, Mix water 9.16 gal/sk, Mix fluid 9.16 with class H tail Cement 94.0 lb/sk, Calcium Chloride 2%, Cellophane Flakes 0.25 lb/sx, Bentonite Gel 4%. Start Tail @ 7:47 hrs on 7/24/2014.</p> <p>PNR representative observed tattle tail leave cement head when pumping down top plug. Displaced with 157 bbls(7 bblsearly) @ 8.33 lb/gal fresh water.Bump plug @ 08:45 hrs on 7/24/14 with 500 psi over final lift pressure of 250 psi (850 psi). Held pressure for 5 min, floats held. Released pressure @ 08:50 hrs, bled back 1 bbl.</p> <p>Circulate cement back to surface after 90 bbls into displacement. Circulate total of 65 bbls of lead cement back to surface. (Had full returns during cement job.)</p> <p>Cement fell back 102' in conductor. Rig up 1" pipe for top out cement.</p> <p>Initial Lift pressure 310 psi @ 7.5 bpm, Final lift pressure 250 psi @ 2.5 bpm.</p> <p>Pressures into displacement- 50 bbls- 7.5 bpm @ 280 psi, 100 bbls- 7.5 bpm @ 350 psi, 150 bbls- 2.5 bpm @ 230 psi, 157 bbls- 2.5 bpm @ 250 psi.</p> <p>Top out Cement: 31 bbls Class H {Premium}: 100 sks 16.4 ppg {94 lb/sk of blend } of class H tail cement, yield 1.75 ft<sup>3</sup>/sk, mix water 9.16 gal/sk, mix fluid 9.16 with class H tail cement 94.0 lb/sk Calcium Chloride 2%. Full returns during top out. Cement was static at surface.</p> <p>Rig down Crest Cementer's.</p>	5
WLHEAD	<p>Made final cut on casing, preheated from directions of Seaboard rep. Welded and installed "A" section on 13-3/8" surface casing. Pressure tested void with nitrogen to 570 psi for 5 minutes - good test. Out of critical path, cleaning mud pits in preparation to receive 8.8 ppg OBM, set Mud Control Equipment shaker tank and cuttings catch tank in back yard. Set, installed and connected rig mud vacuum system</p>	4
NU_TEST	<p>Nipple up DSA &amp; spacer spool on top of multi- bowl well head. Raise BOP and set in place with wrangler. Nipple up 13-5/8" BOP on top of spacer spool. Nipple up choke line and kill line. Hook up accumulator lines, and flowline. Function test accumulator and BOP. (ok) Out of critical path, cleaning mud pits in preparation to receive 8.8 ppg OBM, set Mud Control Equipment shaker tank and cuttings catch tank in back yard. Set, installed and connected rig mud vacuum system.</p>	8
NU_TEST	<p>Hold PJSM with Monahans bop testers. Rig up Monahans test equipment. Picked up a joint of drill pipe, attached the test plug and lowered it into the bop.</p>	0.75
NU_TEST	<p>Test 13-5/8" BOP stack. Test blind rams, kill line, choke line, choke manifold, pipe rams,annular and floor valves (Dart, TIW) to 250 psi low / 3,000 psi high. Test back to the pumps to 250 low, 4,500 psi high. Pulled test plug.</p> <p>? Test was completed with no issues, results were graphed on chart.</p>	4.5
TST_DO_FIT	<p>Test casing to 1000 psi for 30 minutes. {OK} Rig down Monahans testing equipment.</p>	0.75
NU_TEST	<p>Perform Koomy draw down test.(good test)</p>	0.25
NU_TEST	<p>Hook up turn buckles, center stack. Install dresser sleeve on flowline.</p>	0.75

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

**Report #: 4 Daily Operation: 7/25/2014 06:00 - 7/26/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 031484		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
3	3	1,746.0	1,745.6	8.60	PATTERSON - UTI, 245			

**Operations Summary**  
Center BOP, install dresser sleeve on flowline, connected catch can and overflow line. Install wear bushing, slip and cut 1740' of drill line. Pick up 12-1/4" intermediate BHA and bit. TIH to 1,050' (tag cement). Fill active mud system with 8.8 ppg OBM. Drill out cement and shoe track f/ 1,050' to 1,105', while displacing hole with 8.8 ppg OBM. Drill f/ 1,105' - 1,746'.

**Remarks**  
Rig (Patterson 245) & Well Progress: 24.00 days on location, 3.14 days since rig accepted on, 3 days since spud. Rig move day's 6.00  
  
Rig NPT: 0 hours for previous 24 hours. 66.75 NPT hours for July.  
  
Completion percentage: Surface- 100%, Intermediate- 0%, Curve- 0%, Lateral- 0%  
  
Line Proximity: 0' Above, 6.8' Left of Plan #2  
  
Estimated Pad Completion: 10/1/2014

**Time Log Summary**

Operation	Com	Dur (hr)
NU_TEST	Finished installing dresser sleeve on flowline, hooked up turnbuckles and centered BOP, connected catch can and overflow line. Connected fill up line.	2.25
WEARBUS HING	Picked up, ran and set long wear bushing in wellhead. Secured wear bushing with 2 lockdown screws. PNR rep observed operation.	1
WEARBUS HING	Cleaned and organized rig floor. Out of critical path, grouted cellar with cement to cover base plate of wellhead.	0.5
RIG_SVC	Slipped and cut 640 feet of drill line, due to damaged line between drill line anchor and wireline spool.(drill line was damaged by rigs forklift)	2
RIG_SVC	Serviced rig.	1
U_RIG	Slipped and cut 1100 feet of drill line due to damaged drill line between drill line anchor and spool.Cut a total of 1740 feet of drill line. (drill line was damaged by rigs forklift)	1.5
BHA_HAN DLING	Picked up 12-1/4" intermediate hole section BHA. Scribe up to UBHO. MU tool carrier and installed Pathfinder MWD tool, surface test same. (ok)	3.75
SAFETY	Hold safety stand down with all personnel on location, about Patterson incident.	0.5
BHA_HAN DLING	Made up bit # 2. Pick up 1 NMDC, 7- 8" DC's, a set of HE jars from Smith and 5-8"DC's from derrick. Made up XO sub. TIH with 7 stands of HWDP.  Tagged Cement @ 1,050'	3.25
CIRC	Transfer 750 bbls 8.8 ppg OBM from reserve tanks to active mud system.	1.25
DRL_ROT	Drilled cement, float collar, and the remainder of the shoe track. While displacing hole with 8.8 ppg OBM.  Top of float collar @ 1,062' MD. Shoe depth - 1,105'	1
U_MTR	Re-cycling pumps, trouble shoot mwd. Noise, and weak pulse.	0.5
DRL_ROT	Rotate Drill 12 1/4" Intermediate Hole 641' @ 116'/Hr, 170 spm, 711 gpm, 2300 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 20 -25 wob, 8-12 k ft/lbs trq. Full returns to surface.	5.5

**Report #: 5 Daily Operation: 7/26/2014 06:00 - 7/27/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 031484		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
4	4	3,825.0	3,822.8	8.60	PATTERSON - UTI, 245			

**Operations Summary**  
Drill/Slide 12-1/4" Intermediate hole section f/ 1,746' to 3,901'. Trouble shoot VFD house due to power outage.

**Remarks**  
Rig (Patterson 245) & Well Progress: 25.00 days on location, 4.14 days since rig accepted on, 4 days since spud. Rig move day's 6.00  
  
Rig NPT: 2.0 hours for previous 24 hours. 68.75 NPT hours for July.  
  
Completion percentage: Surface- 100%, Intermediate- 40%, Curve- 0%, Lateral- 0%  
  
Line Proximity: 18' Above, 9' Left of Plan #2  
  
Estimated Pad Completion: 10/1/2014

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 12 1/4" Intermediate Hole 1009' @ 134.5'/Hr, 170 spm, 711 gpm, 2500 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 25-30 wob, 8-12 k ft/lbs trq. Full returns to surface. ECD 9.1-9.2 ppg. While drilling at 2755 feet, lost all generator engines.	7.5
U_RIG	Changed fuel filters on all generator engines. Restarted generator engines, got power to drawworks and 1 mud pump. Broke circulation with 105 GPM, picked drill string up to 2710', no hole drag. Increased pump rate to 378 GPM, rotating drill string at 80 RPM,	1
U_RIG	Continued circulating at 378 GPM@800 psi, rotating drill string with 80 RPM, with bit positioned at 2710 feet. while rig personnel resolve electrical problem.	0.5
DRL_ROT	Rotate Drill 12 1/4" Intermediate Hole 385' @ 110'/Hr, 170 spm, 711 gpm, 2850 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 25-30 wob, 8-12 k ft/lbs trq. Full returns to surface. ECD 9.1-9.2 ppg.	3.5
DRL_SLID E	Slide drill 12 1/4" Intermediate Section 15' @ 30' ft/hr. 711 GPM, mm rpm 107, diff. 200, spp 2334, wob 25 K. {TF 223M}. ECD 9.0-9.1	0.5
DRL_ROT	Rotate Drill 12 1/4" Intermediate Hole 81' @ 108'/Hr, 170 spm, 711 gpm, 2850 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 25-30 wob, 8-12 k ft/lbs trq. Full returns to surface. ECD 9.0-9.1 ppg.	0.75
U_RIG	While making connection @ 3236' rig blacked out.(power outage), trouble shoot VFD. Restarted generators and got power to draw works and mud pumps. Picked up drill string with no drag, engaged mud pumps with full returns to surface.	0.5
DRL_SLID E	Slide drill 12 1/4" Intermediate Section 15' @ 20' ft/hr. 711 GPM, mm rpm 107, diff. 200, spp 2334, wob 25 K. {TF 223M}. ECD 9.0-9.1	0.75
DRL_ROT	Rotate Drill 12 1/4" Intermediate Hole 75' @ 100'/Hr, 170 spm, 711 gpm, 2850 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 25-30 wob, 8-12 k ft/lbs trq. Full returns to surface. ECD 9.0-9.1 ppg.	0.75
DRL_SLID E	Slide drill 12 1/4" Intermediate Section 20' @ 26' ft/hr. 711 GPM, mm rpm 107, diff. 300, spp 2600, wob 25 K. {TF 268M}. ECD 9.0-9.1	0.75
DRL_ROT	Rotate Drill 12 1/4" Intermediate Hole 76' @ 76'/Hr, 170 spm, 711 gpm, 2850 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 25-30 wob, 8-12 k ft/lbs trq. Full returns to surface. ECD 9.0-9.1 ppg.	1
DRL_SLID E	Slide drill 12 1/4" Intermediate Section 31' @ 62' ft/hr. 711 GPM, mm rpm 107, diff. 300, spp 2600, wob 25 K. {TF 268M}. ECD 9.0-9.1	0.5
DRL_ROT	Rotate Drill 12 1/4" Intermediate Hole 256' @ 73'/Hr, 170 spm, 711 gpm, 2850 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 25-30 wob, 8-12 k ft/lbs trq. Full returns to surface. ECD 9.1-9.2 ppg.	3.5
DRL_SLID E	Slide drill 12 1/4" Intermediate Section 7' @ 9' ft/hr. 711 GPM, mm rpm 107, diff. 300, spp 2600, wob 25 K. {TF 308M}. ECD 9.1-9.2	0.75
DRL_ROT	Rotate Drill 12 1/4" Intermediate Hole 99' @ 79'/Hr, 170 spm, 711 gpm, 2850 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 25-30 wob, 8-12 k ft/lbs trq. Full returns to surface. ECD 9.1-9.2 ppg.	1.25
DRL_SLID E	Slide drill 12 1/4" Intermediate Section 10' @ 20' ft/hr. 711 GPM, mm rpm 107, diff. 300, spp 2600, wob 25 K. {TF 308M}. ECD 9.1-9.2	0.5

**Report #: 6 Daily Operation: 7/27/2014 06:00 - 7/28/2014 06:00**

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 031484	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
5	5	5,280.0	5,273.3	8.70	PATTERSON - UTI, 245

Operations Summary

Drill/Slide 12-1/4" intermediate hole section f/ 3901' to 5,280'. Service rig and top drive. Perform clean up cycle @ 5,042' due to ECD reaching 9.4 ppg.

Remarks

Rig (Patterson 245) & Well Progress: 26.00 days on location, 5.14 days since rig accepted on, 5 days since spud. Rig move day's 6.00

Rig NPT: 0 hours for previous 24 hours. 68.75 NPT hours for July.

Completion percentage: Surface- 100%, Intermediate- 60%, Curve- 0%, Lateral- 0%

Line Proximity: 6' Above, 8.8' Left of Plan #2

Estimated Pad Completion: 10/1/2014

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 467' @ 77.8'/Hr, 170 spm, 711 gpm, 2850 spp, 500-600 diff, 80 top drive rpm, 107 motor rpm, 30-35 wob, 8-14 k ft/lbs trq. Full returns to surface. ECD 9.1-9.2 ppg.	6
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 15' @ 18.7'/Hr, 170 spm, 711 gpm, 2850 spp, 220 diff, 107 motor rpm, 30 wob, 8-14 k ft/lbs trq. TF 230 degrees Magnetic	0.75

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 355' @59'/Hr, 170 spm, 711 gpm, 2957 spp, 400-500 diff, 80 top drive rpm, 107 motor rpm, 30-35 wob, 8-14 k ft/lbs trq. Full returns to surface. ECD 9.01-9.06 ppg.	6
RIG_SVC	Service rig and top drive.	1
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 203' @81'/Hr, 170 spm, 711 gpm, 2957 spp, 400-500 diff, 80 top drive rpm, 107 motor rpm, 30-35 wob, 8-14 k ft/lbs trq. Full returns to surface. ECD 9.1-9.3 ppg.	2.5
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 15' @ 20'/Hr, 160 spm, 670 gpm, 2955 spp, 220 diff, 100 motor rpm, 30 wob, 8-14 k ft/lbs trq. TF 268 degrees Magnetic. Full returns to surface. ECD 9.1-9.3 ppg.	0.75
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 182' @ 104'/Hr, 160 spm, 670 gpm, 2957 spp, 400-500 diff, 80 top drive rpm, 100 motor rpm, 30-35 wob, 8-14 k ft/lbs trq. Full returns to surface. ECD 9.3-9.4 ppg.	1.75
CIRC	While drilling @ 5,062' ECD increased to 9.4 ppg. Perform clean up cycle. Circulate bottoms up while reciprocating pipe 90'. 669 gpm, 80 rpm, 2,400 spp. Full returns throughout circulation. ECD came down to 9.06 ppg at the end of circulation.	0.75
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 183' @ 57'/Hr, 160 spm, 670 gpm, 2957 spp, 400-500 diff, 80 top drive rpm, 100 motor rpm, 30-35 wob, 8-14 k ft/lbs trq. Full returns to surface. ECD 9.1-9.3 ppg.	3.25
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 15' @ 20'/Hr, 160 spm, 670 gpm, 2955 spp, 220 diff, 100 motor rpm, 30 wob, 8-14 k ft/lbs trq. TF 253 degrees Magnetic. Full returns to surface. ECD 9.1-9.3 ppg.	0.75
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 20' @ 40'/Hr, 160 spm, 670 gpm, 2957 spp, 400-500 diff, 80 top drive rpm, 100 motor rpm, 30-35 wob, 8-14 k ft/lbs trq. Full returns to surface. ECD 9.1-9.3 ppg.	0.5

**Report #: 7 Daily Operation: 7/28/2014 06:00 - 7/29/2014 06:00**

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 031484	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
6	6	6,404.0	6,393.0	8.70	PATTERSON - UTI, 245

Operations Summary

Drill/Slide 12-1/4" Intermediate hole section f/ 5,280' to 6,404'. Service rig and top drive.

Remarks

Rig (Patterson 245) & Well Progress: 27.00 days on location, 6.14 days since rig accepted on, 6 days since spud. Rig move day's 6.00

Rig NPT: 0 hours for previous 24 hours. 68.75 NPT hours for July.

Completion percentage: Surface- 100%, Intermediate- 76%, Curve- 0%, Lateral- 0%

Line Proximity: 3.9' Above, 12.3' Left of Plan #2

Estimated Pad Completion: 10/1/2014

**Time Log Summary**

Operation	Com	Dur (hr)
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 248' @ 66'/Hr, 160 spm, 687 gpm, 2957 spp, 400-500 diff, 80 top drive rpm, 100 motor rpm, 30-35 wob, 8-14 k ft/lbs trq. Full returns to surface. ECD 9.1-9.3 ppg.	3.75
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 17' @ 21.2'/Hr, 687 gpm, 2420 spp, 280 diff, 103 motor rpm, 20 wob. TF 240 degrees Magnetic	0.75
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 78' @ 62'/Hr, 687 gpm, 2957 spp, 600 diff, 80 top drive rpm, 103 motor rpm, 30-35 wob, 8-14 k ft/lbs trq. Full returns to surface. ECD 9.1 ppg.	1.25
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 20' @ 20'/Hr, 687 gpm, 2420 spp, 260 diff, 103 motor rpm, 24 wob. TF 260 degrees Magnetic	1
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 157' @ 69.7'/Hr, 687 gpm, 2876 spp, 600 diff, 70 top drive rpm, 103 motor rpm, 30-35 wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 9.12 ppg. Running centrifuge, adding diesel/water(at 70/30 ratio, and changing shaker screens to 200 mesh to maintain mud weight of 8.8 ppg.	2.25
RIG_SVC	Service rig and top drive.	1
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 205' @ 51'/Hr, 687 gpm, 2950 spp, 600 diff, 70 top drive rpm, 103 motor rpm, 30-35 wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 9.12 ppg.	4
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 18' @ 12'/Hr, 687 gpm, 2420 spp, 260 diff, 103 motor rpm, 24 wob. TF 308 degrees Magnetic	1.5
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 361' @ 51'/Hr, 704 gpm, 3020 spp, 600 diff, 80 top drive rpm, 105 motor rpm, 30-35 wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 9.0-9.1 ppg.	7
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 20' @ 10'/Hr, 704 gpm, 2665 spp, 260 diff, 105 motor rpm, 24 wob. TF 268 degrees Magnetic	1.5

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

**Report #: 8 Daily Operation: 7/29/2014 06:00 - 7/30/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 031484		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
7	7	7,131.0	7,117.5	8.70	PATTERSON - UTI, 245			

Operations Summary  
Drill/Slide 12-1/4" Intermediate hole section f/ 6,404' to 7,131'. Perform clean up cycle, TOOH due to penetration rate.

Remarks  
Rig (Patterson 245) & Well Progress: 28.00 days on location, 7.14 days since rig accepted on, 7 days since spud. Rig move day's 6.00  
  
Rig NPT: 0 hours for previous 24 hours. 68.75 NPT hours for July.  
  
Completion percentage: Surface- 100%, Intermediate- 87%, Curve- 0%, Lateral- 0%  
  
Line Proximity: 2' Above, 13' Left of Plan #2  
  
Estimated Pad Completion: 10/1/2014

**Time Log Summary**

Operation	Com	Dur (hr)
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 88' @ 58.6'/Hr, 704 gpm, 3020 spp, 450 diff, 80 top drive rpm, 105 motor rpm, 32k wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 8.92 ppg.	1.5
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 10' @ 4.4'/Hr, 705 gpm, 2620 spp, 275 diff, 105 motor rpm, 27 wob. TF 280 degrees Magnetic	2.25
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 167' @ 60.7'/Hr, 705 gpm, 3020 spp, 500 diff, 80 top drive rpm, 105 motor rpm, 34k wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 8.92 ppg.	2.75
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 20' @ 11.4'/Hr, 705 gpm, 2840 spp, 220 diff, 105 motor rpm, 32 wob. TF 270 degrees Magnetic	1.75
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 75' @ 50'/Hr, 705 gpm, 3270 spp, 540 diff, 80 top drive rpm, 105 motor rpm, 34k wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 8.96 ppg.	1.5
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 20' @ 11'/Hr, 714 gpm, 2840 spp, 220 diff, 107 motor rpm, 32 wob. TF 250 degrees Magnetic  ? Perform H2S drill. All crew members reported to briefing area in a timely matter.	1.75
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 347' @ 39'/Hr, 714 gpm, 3270 spp, 540 diff, 80 top drive rpm, 107 motor rpm, 34k wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 8.99 ppg. ( Penetration rate dropped to 20 ft/hr, Mud Motor stalling out, decision was made to TOOH )	8.5
CIRC	Perform clean up cycle. Circulate 2 bottoms up, reciprocating pipe 90' @ 80 rpm, 714 gpm, 2700 spp. Held full returns throughout circulation.	2
TOOH	Check flow (well static). Pump slug, TOOH due to slow penetration rate. Change break on drill string. Monitored hole fill with trip tank - hole took correct fill.	2

**Report #: 9 Daily Operation: 7/30/2014 06:00 - 7/31/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 031484		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
8	8	7,138.0	7,124.5	8.70	PATTERSON - UTI, 245			

Operations Summary  
Continue TOOH, lay down directional assembly and bit #2. Pull wear bushing inspect same (ok). Pick up jet sub, and jet well head, re-install wear bushing. Pick up new directional assembly and bit #3. TIH f/ 499' to 2,180'. Wash and Ream tight hole f/ 2,180' to 3,997'. TIH f/ 3,997' to 7,131'. Drill/Slide 12-1/4" Intermediate hole section f/ 7,131' to 7,138'.

Remarks  
Rig (Patterson 245) & Well Progress: 29.00 days on location, 8.14 days since rig accepted on, 8 days since spud. Rig move day's 6.00  
  
Rig NPT: 0 hours for previous 24 hours. 68.75 NPT hours for July.  
  
Completion percentage: Surface- 100%, Intermediate- 87%, Curve- 0%, Lateral- 0%  
  
Line Proximity: 2' Above, 13' Left of Plan #2  
  
Estimated Pad Completion: 10/1/2014  
  
Night crew short 2 hands. Day crew had 2 stay over to fill in.

### Time Log Summary

Operation	Com	Dur (hr)
TOOH	Continue TOOH F/ 5,218' to 109' due to slow penetration rate. Change break on drill string. Monitored hole fill with trip tank - hole took correct fill.	6.5
BHA_HAN DLING	Pulled and racked 5"HWDP, 8" DCs in derrick.8/12/2014	1.5
WEARBUS HING	Pulled, inspected wear bushing - no obvious wear observed. Washed wellhead, reinstalled wearbushing. All observed by PNR rep.	2
RIG_SVC	Service rig and top drive.	1
BHA_HAN DLING	Pick up directional BHA. Scribe up to PWD sub. Install MWD/PWD tool. Shallow test directional tools, test was good. Make up 12 1/4" bit.	1.75
TIH	TIH t/ 2,180' filling pipe every 20 stands. Monitoring on trip tank, hole giving proper displacement. Encounter tight hole @ 2,180'.	2.75
U_TH	Wash and ream tight hole f/ 2,180' to 2,552' @ 30 rpm, 334 gpm, 700 spp. Full returns to surface.	1
U_WOW	Reciprocate drill string while waiting on weather. (Lightning)	0.5
U_TH	Wash and ream tight hole f/ 2,552' to 3,997' @ 30 rpm, 450 gpm, 1150 spp. Full returns to surface.	3.5
TIH	TIH f/ 3,997' to 7,131' filling pipe every 20 stands. Monitoring on trip tank, hole giving proper displacement. Precautionary washed last 90' to bottom.	3
DRL_ROT	Slide Drill 12 1/4" Intermediate Hole 6' @ 12'/Hr, 714 gpm, 3170 spp, 220 diff,107 motor rpm, 20k wob, TF 270 M Full returns to surface. ECD 8.99 ppg.	0.5

### Report #: 10 Daily Operation: 7/31/2014 06:00 - 8/1/2014 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 031484	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
9	9	8,029.0	8,013.9	8.70	PATTERSON - UTI, 245	

#### Operations Summary

Drill/Slide 12-1/4" Intermediate hole section f/ 7,138' to 7,265'. Rig lost power. Drill/Slide 12-1/4" Intermediate hole section f/ 7,265' to 8,006'. Repair liner washer MP # 2. Drill/Slide 12-1/4" Intermediate hole section f/ 8,006' to 8,029'. Perform clean up cycles.

#### Remarks

Rig (Patterson 245) & Well Progress: 30.00 days on location, 9.14 days since rig accepted on, 9 days since spud. Rig move day's 6.00

Rig NPT: 1 hours for previous 24 hours. 69.75 NPT hours for July.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 0%, Lateral- 0%

Line Proximity: 20' Below, 10' Left of Plan #2

Estimated Pad Completion: 10/1/2014

Notified TRRC at 5:00 am talked to Jkuana

### Time Log Summary

Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 13' @ 17.3'/Hr, 714 gpm, 3420 spp, 470 diff, 107 motor rpm, 20 wob. TF 270 degrees Magnetic	0.75
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 94' @ 53.7/Hr, 714 gpm, 2950 spp, 700 diff, 80 top drive rpm, 107 motor rpm, 32k wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 9.05 ppg.	1.75
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 20' @ 13.3'/Hr, 714 gpm, 3330 spp, 120 diff, 107 motor rpm, 22 wob. TF 270 degrees Magnetic	1.5
U_RIG	Lost rig power, with bit on bottom. Changed fuel filters in prime movers, restarted engines. Picked drill string off bottom, no drag. Rotated drill string and established circulation.	1
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 75' @ 60.0/Hr, 714 gpm, 3070 spp, 730 diff, 80 top drive rpm, 107 motor rpm, 21k wob, 8-15 k ft/lbs trq. Full returns to surface. ECD 9.05 ppg.	1.25
DRL_SLID E	Slide Drill 12 1/4" Intermediate Hole 31' @ 11.2'/Hr, 714 gpm, 3240 spp, 220 diff, 107 motor rpm, 18 wob. TF 235 degrees Magnetic	2.75
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 635' @ 47.9/Hr, 714 gpm, 3500 spp, 730 diff, 80 top drive rpm, 107 motor rpm, 31k wob, 10-18 k ft/lbs trq. Full returns to surface. ECD 8.9 ppg.	13.25
U_RIG_OT R	Repair liner washer on Mud Pump # 2	0.25
DRL_ROT	Rotary Drill 12 1/4" Intermediate Hole 23' @ 46/Hr, 714 gpm, 3500 spp, 730 diff, 80 top drive rpm, 107 motor rpm, 31k wob, 10-18 k ft/lbs trq. Full returns to surface. ECD 8.9 ppg.	0.5
CIRC	Performing clean up cycles, circulating first bottoms up.	1

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

**Report #: 11 Daily Operation: 8/1/2014 06:00 - 8/2/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 031484		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
10	10	8,029.0	8,013.9	8.70	PATTERSON - UTI, 245			

**Operations Summary**  
Finished performing clean up cycles. Checked flow and TOOH to 2,100'. TIH f/ 2,100' to 2,656'. Wash and Ream tight hole f/ 2,656' to 2,700'. TIH f/ 2,700' to 2,981'. Wash and Ream tight hole f/ 2,981 to 3,052'. TIH f/ 3,052' to 3,358'. Pump slug and TOOH. Lay down HWDP, 8" Dc's and Directional assembly. Pull and Inspect wear bushing. Rig up Tesco casing crew.

**Remarks**  
Rig (Patterson 245) & Well Progress: 31.00 days on location, 10.14 days since rig accepted on, 10 days since spud. Rig move day's 6.00

Rig NPT: 0 hours for previous 24 hours. 69.75 NPT hours for July.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 0%, Lateral- 0%

Line Proximity: 20' Below, 10' Left of Plan #2

Estimated Pad Completion: 10/1/2014

### Time Log Summary

Operation	Com	Dur (hr)
CIRC	Continued reciprocation, rotation at 80 RPM, and circulation at 712 GPM on second circulation. Shakers cleaned up.	2
TOOH	Picked up single drill pipe to change break in drill string. Flow check - negative flow, pulled 5 stands wet pipe from 7973 to 7498 feet. Monitored hole fill with trip tank - hole took correct fill. Pumped slug and continued pulling out of hole from 7498 to 2100 feet. Drill pipe connections tight, requiring break out with rig tongs with 20k torque. Hole taking correct fill.	7.5
TIH	TIH f/ 2,100' to 2,656' Monitoring on trip tank, hole giving proper displacement. Encountered tight hole at 2,656'	0.5
U_TH	Wash and ream tight hole f/ 2,656' to 2,700' @ 80 rpm, 700 gpm, 2235 spp. Full returns to surface.	0.5
TIH	TIH f/ 2,700' to 2,981' Monitoring on trip tank, hole giving proper displacement. Encountered tight hole at 2,981'	0.5
U_TH	Wash and ream tight hole f/ 2,981' to 3,052' @ 80 rpm, 700 gpm, 2235 spp. Full returns to surface.	0.25
TIH	TIH f/ 3,052' to 3,358' Monitoring on trip tank, hole giving proper displacement.	0.25
CIRC	Pumped slug and TOOH {slm} to run 9 5/8" intermediate casing F/ 3,358' - 1,144'. Monitor Fill with trip tank, hole taking proper fill.	1.75
BHA_HAN DLING	Laid down 5" HWDP and 8" DCs. Broke bit #3, and lay down directional assembly. Connections tight had trouble breaking.	7.75
WEARBUS HING	Back out lock nuts on wear bushing. Pull, inspect wear bushing {OK}. P/U joint d.p., wash jet sub, and wash out well head. L/D same.	1.5
CASE	Hold PJSM, with Tesco, prior to rigging up casing running tools. Rigged up Tesco casing running tools.	1.5

**Report #: 12 Daily Operation: 8/2/2014 06:00 - 8/3/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 031484		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
11	11	8,029.0	8,013.9	8.80	PATTERSON - UTI, 245			

**Operations Summary**  
Rigged up CRT tool and hold PJSM. Make up shoe track and test. Ran 9 5/8" casing to 4,742'. Safety stand down. Ran 9 5/8" casing to 5,560'. Repair broken chain on catwalk. Finished running casing. Picked up hanger and landing joint landed casing at expected measurement. Rig up cementers. PJSM and cement 9 5/8" casing.

**Remarks**  
Rig (Patterson 245) & Well Progress: 32.00 days on location, 11.14 days since rig accepted on, 11 days since spud. Rig move day's 6.00

Rig NPT: 2.5 hours for previous 24 hours. 2.75 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 0%, Lateral- 0%

Line Proximity: 20' Below, 10' Left of Plan #2

Estimated Pad Completion: 10/1/2014

### Time Log Summary

Operation	Com	Dur (hr)
CASE	Finished rigging up CRT and casing running equipment.	1.5
SAFETY	Held prejob safety meeting with rig crew and casing running crew.	0.5
CASE	Picked up and made up 9-5/8" casing shoe track with 2 joints 9-5/8" OD, 43.50 ppf, L-80 IC, BTC casing between shoe and float collar. Thread locked from top of shoe to top of float collar. Installed rigid straight blade centralizers on shoe track and every 3rd joint to 3008 RKB depth. Continued running total of 107 of 175 joints casing. Current depth of 4742 feet. Monitored hole displacement with trip tank - no mud losses, correct mud returns.	10

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Time Log Summary

Operation	Com	Dur (hr)
SAFETY	Safety stand down. Conference call with Patterson UTI about taking responsibility with the safety of ourselves and and all coworkers. They expressed there committment to the safety of all employees.	0.25
CASE	Continued running total of 125 of 175 joints casing. Current depth of 5,560 feet. Monitored hole displacement with trip tank - no mud losses, correct mud returns.	1.5
U_RIG	Repair broken chain on hydraulic catwalk. Circulating and reciprocating at 5,560'	2.5
CASE	Finished running total of 175 joints casing. F/5,560' to 7,974'. Monitored hole displacement with trip tank - no mud losses, correct mud returns.	2.75
CASE	Make up hanger and landing joint. Wash landing joint, and land hanger, ( 4.5 bpm, 2 minute/joint ). Pick up and set hanger once more to confirm good seat (ok) string wt. 301 k. Hanger landed @ confirmed measurements. Circulate 600 bbls @ 5.0 bpm, with full returns. Rig up Schlumberger cementing equipment while circulating.  Shoe depth= 8,018' Float collar depth= 7,922'  Ran total of 38 solid body straight blade centralizers. One in the middle of each shoe track joint on stop rings. One every 3rd joint to +/- 3,000' md.	2.5
CMT	Hold Safety Meeting perform JSA with SLB, Patterson, and Pioneer Rep on rigging up and pumping cement. Rig up cementing head, lines, and tools. Pioneer Rep observed loading of top plug- verified correct pumping sequence. Pressure test cement lines to 5,000 psi.	1
CMT	Pump 1 Stage cement job for 9 5/8" 43.5# and 40#, L-80, LTC Intermediate Casing as follows:  Mud push express: 50 bbls @ 9.20lb/gal (1 lb/bbl BW/Spacer B389 ) 1273.0 lb/mgal weighting agent D031  Lead- LiteCrete: 261 bbls, 624 sks 9.70 ppg (100 lb/sk of Blend) of Lead Cement, Yield 2.35 ft <sup>3</sup> /sk, Mix water 8.11 gal/sk, Mix fluids 8.18 gal/sk with 3.0% BWOW D044 NaCl, D046 Anti-Foam 0.2% BWOB, D207 Fluid Loss 0.3% BWOB, D065 Dispersant 0.2% BWOB, and D013 Retarder 0.2% BWOB.	1.5

Report #: 13 Daily Operation: 8/3/2014 06:00 - 8/4/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 031484
Days From Spud (days) 12	Days on Location (days) 12	End Depth (ftKB) 8,039.0
	End Depth (TVD) (ftKB) 8,023.9	Dens Last Mud (lb/gal) 8.80
		Rig PATTERSON - UTI, 245

#### Operations Summary

Cement 9 5/8" casing and rig down SLB. Flush BOP's. set and test pack off to 5000psi. Lay down landing joint and crt tool. rig up topdrive. Install wear bushing. Function test BOP. pick up BHA and test MWD, Test failed. Troubleshoot and replace MWD tool, Retest good. Make up Bit # 4 and TIH Tag at 7,918'. Troubleshoot HCR valve and reroute hydraulic lines. Test casing to 2500 psi Test good. Drill Float shoe track and 10' of formation. Circulate and raise MW to 9.0.

#### Remarks

Rig (Patterson 245) & Well Progress: 33.00 days on location, 12.14 days since rig accepted on, 12 days since spud. Rig move day's 6.00

Rig NPT: 0.5 hours for previous 24 hours. 3.25 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 0%, Lateral- 0%

Line Proximity: 20' Below, 10' Left of Plan #2

Estimated Pad Completion: 10/1/2014

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Time Log Summary

Operation	Com	Dur (hr)
CMT	Held prejob safety meeting. Mixed and pumped pump 1 stage cement job for 9 5/8" 43.5# and 40#, L-80, BTC Intermediate Casing as follows:  Lead- LiteCrete: 261 bbls, 624 sks 9.70 ppg (100 lb/sk of Blend) of Lead Cement, Yield 2.36 ft³/sk, Mix water 8.083 gal/sk, Mix fluids 8.223 gal/sk with 3.0% BWOW D044 NaCl, . 0.2% D046 BWOB antifoam, 0.3% D167 BWOB fluid loss, 0.2% D065BWOB Dispersant, and D013 Retarder 0.35% BWOB, .07 gal/sx D177 retarder.  Tail: 37 bbls, 193 sks 16.4 ppg (94 lb/sk of Blend) of H Cement, Yield 1.07 ft³/sk, Mix water 4.358 gal/sk, Mix fluid 4.368 with H Cement 94.0 lb/sk WBWOB, D046 Anti-Foam 0.2% BWOB, D013 Retarder 0.2% BWOB, and D065 Dispersant 0.25% BWOB, D177 .010 gal/sx retarder.  PNR representative observed tattle tail leave cement head when pumping down top plug. Displaced with 577 bbls(calculated 597.5 bbls) 8.8 OBM. Bump plug @ 0830 hrs 08/03/14 with 500 psi over final lift pressure of 1022 psi. ( 1560 psi ). Plug bumped 20.5 bbls early. Held pressure for 5 min, floats held. Released pressure @ 08:35 hrs, bled back 4.0 bbls. ** casing shoe at 8,018.83', float collar@7922'45'.  Note: Initial Lift pressure 250 psi @ 5.0 bpm, Final lift pressure 1033 psi @ 4.2 bpm. Held full returns throughout cement job.  Pressures recorded during displacement= 400 bbls - 5.0 bpm @ 250 psi, 450 bbls - 5.0 bpm @ 410 psi, 500 bbls - 5.0 bpm @500, 550 bbls- 5.0 @ 975 psi, Observed spacer/ cement returns at surface after 510 bbls displacement. 50 bbls 9.2 ppg spacer and 17 bbls lead cement returned to surface.	2.5
CMT	Rigged down surface cement equipment.	0.5
CMT	Lined up and flushed BOP stack.	2
CMT	Set and pressure tested casing hanger pack off to 5000 psi.	2
CMT	Pulled and laid out langing joint and seal assembly running tool. Rigged down and laid out CRT tool.	1.5
CMT	Installed stabbing guide on TDS, picking up and connecting rig bales, tilt links and elevators, prior to picking up BHA.	1
WEARBUS HING	Install wear bushing, ( Company Rep. Witnessed ), clean rig floor & remove all cross overs, lift subs, and tools not needed for next drilling operation.	1.5
NU_TEST	Function test all B.O.P components. Test was good.	0.5
BHA_HAN DLING	Pick up directional BHA. PU Impact 6 3/4"Mud Motor 7/8 Lobe 6.4 Stage .28 rev/gal fixed housing set @ 2.12°. PU stabilizer, float sub, ubho sub, & NMDC. Scribe from bend up to ubho sub. Install MWD tool. Shallow test directional tools, test failed.	1
U_MWD	Trouble shoot and replace MWD tool and retest, test good.	1.25
TIH	Make up Security 8 1/2" MMD55DM PDC bit dressed with 5/16's TFA=0.981. Picked up 1 NMDC and TIH with 5" DP.  Tagged Cement @ 7,918	6
U_RIG	Troubleshoot HCR valve. Re routed hydraulic lines	0.5
TST_DO_FIT	Test casing to 2500 psi/30min. Good test. Drilled float collar,shoe and 10' of new formation.	2
CIRC	Circulate and raise mud wt from 8.8 to 9.0 ppg.	1.75

### Report #: 14 Daily Operation: 8/4/2014 06:00 - 8/5/2014 06:00

Job Category		Primary Job Type		AFE Number	
ORIG DRILLING		ODR		031484	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
13	13	9,804.0	8,720.2	9.00	PATTERSON - UTI, 245

#### Operations Summary

Rotate/Slide Drill Curve F/ 8,039' to 8,281'. Service Rig. Rotate/Slide Drill Curve F/ 8,281' to 9,042'. Rotate/Slide Drill Lateral F/ 9,042 to 9,804

#### Remarks

Rig (Patterson 245) & Well Progress: 34.00 days on location, 13.14 days since rig accepted on, 13 days since spud. Rig move day's 6.00

Rig NPT: 0 hours for previous 24 hours. 3.25 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 9.0%

Line Proximity: 0.9' Above, 2.14' Left of Plan #3

Estimated Pad Completion: 10/1/2014

### Time Log Summary

Operation	Com	Dur (hr)
DRL-ROT	Rotate drill f/ 8.5" f/8039.0'- 8150.0, 111' @ 55.5'/Hr, 693 gpm, 2350 spp, 600 diff, 80 top drive rpm, 194 motor rpm, 30k wob, 16 k ft/lbs trq. Full returns to surface.	2

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
DRL-SLIDE	Slide drill f/ 8.5" curve f/ 8150.0-8186.0, 36' @ 24'/Hr, 693 gpm, 165 spm, 2330 spp, 400 diff, 194 motor rpm, 3-5 k wob, TFO- 1 MTF, Full returns to surface	1.5
DRL-ROT	Rotate drill f/ 8.5" curve f/ 8186.0-8196.0, 10' @ 120 ft'/Hr, , 30 k wob, 30 top drive rpm, 546 gpm, 130 spm, 2350 spp, 600 diff, 153 motor rpm,, 8 k ft/lbs trq. Full returns to surface	0.5
DRL-SLIDE	Slide drill f/ 8.5" curve f/ 8196.0-8281.0', 85' @ 85 ft'/Hr, 3-5 k wob, 400 diff, 194 motor rpm, 546 gpm, 130 spm, 2350 spp, TFO- 1 MTF, Full returns to surface	1
RIG_SVC	Service & Lubricate rig, draw works, Top Drive & St-80.	1
DRL CURVE-ROT	Rotate drill f/ 8.5" curve f/ 8281.0 - 8306.0', 25' @ 50 ft'/Hr, 30 k wob, 30 top drive rpm, 546 gpm, 130 spm, 2350 spp, 500 diff, 153 motor rpm,, 16 k ft/lbs trq. Full returns to surface	0.5
DRL CURVE-SLIDE	Slide drill f/ 8.5" curve f/ 8306.0 - 8351.0', 45' @ 60 ft'/Hr, 30 k wob, 400 diff, 194 motor rpm, 546 gpm, 130 spm, 2350 spp, TFO- 10 R, Full returns to surface	0.75
DRL CURVE-ROT	Rotate drill f/ 8.5" curve f/ 8351.0 - 8376.0', 25' @ 60 ft'/Hr, 30 k wob, 30 top drive rpm, 546 gpm, 130 spm, 2350 spp, 500 diff, 153 motor rpm,, 16 k ft/lbs trq. Full returns to surface	0.75
DRL CURVE-SLIDE	Slide drill f/ 8.5" cuve f/ 8376.0 - 8396.0', 20' @ 80 ft'/Hr, 30 k wob, 400 diff, 194 motor rpm, 546 gpm, 130 spm, 2375 spp, TFO- 15 L, Full returns to surface	0.5
DRL CURVE-ROT	Rotate drill f/ 8.5" curve f/ 8396.0 - 8421.0', 25' @ 100 ft'/Hr, 30 k wob, 30 top drive rpm, 546 gpm, 130 spm, 2350 spp, 500 diff, 153 motor rpm,, 16 k ft/lbs trq. Full returns to surface	0.25
DRL CURVE-SLIDE	Slide drill f/ 8.5" curve f/ 8421.0 - 8446.0', 25' @ 100 ft'/Hr, 30 k wob, 400 diff, 194 motor rpm, 546 gpm, 130 spm, 2375 spp, TFO- 15 L, Full returns to surface	0.25
DRL CURVE-ROT	Rotate drill f/ 8.5" curve f/ 8446.0 - 8468.0', 22' @ 44 ft'/Hr, 30 k wob, 30 top drive rpm, 546 gpm, 130 spm, 2350 spp, 500 diff, 153 motor rpm,, 16 k ft/lbs trq. Full returns	0.5
DRL CURVE-SLIDE	Slide drill f/ 8.5" curve f/ 8468.0 - 8491.0', 25' @ 50 ft'/Hr, 30 k wob, 400 diff, 194 motor rpm, 546 gpm, 130 spm, 2375 spp, TFO- 30 L, Full returns to surface.	0.5
DRL CURVE-ROT	Rotate drill f/ 8.5" curve f/ 8491.0 - 8516.0', 25' @ 100 ft'/Hr, 30 k wob, 30 top drive rpm, 546 gpm, 130 spm, 2350 spp, 500 diff, 153 motor rpm,, 16 k ft/lbs trq. Full returns @ surface..	0.25
DRL CURVE-SLIDE	Slide drill f/ 8.5" curve f/ 8516.0 - 8536.0', 20' @ 80 ft'/Hr, 30 k wob, 400 diff, 194 motor rpm, 546 gpm, 130 spm, 2375 spp, TFO- 30 L, Full returns to surface.	0.25
DRL CURVE-ROT	Rotate drill f/ 8.5" curve f/ 8536.0 - 8566.0', 30' @ 120 ft'/Hr, 30 k wob, 30 top drive rpm, 546 gpm, 130 spm, 2350 spp, 500 diff, 153 motor rpm,, 16 k ft/lbs trq. Full returns @ surface..	0.5
DRL CURVE-SLIDE	Slide drill f/ 8.5" curve f/ 8566.0 - 8600.0', 34' @ 33 ft'/Hr, 30 k wob, 400 diff, 194 motor rpm, 546 gpm, 130 spm, 2375 spp, TFO- 30 L, Full returns to surface.	1
DRL CURVE-ROT	Rotate Drill 8 1/2" Curve Section 10' @ 111 Ft/Hr, 30 M# Wob, 30 Rpm, 546 Gpm, 130 Spm, 2375 Spp, 500 Diff, 153 MM Rpm, Trq 11K	0.25
DRL CURVE-SLIDE	Slide Drill 8 1/2" Curve Section 30' @ 120 Ft/Hr, 35 M# Wob, 450 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2375 Spp, TFO- HS	0.25
DRL CURVE-ROT	Rotate Drill 8 1/2" Curve Section 27' @ 108 Ft/Hr, 30 M# Wob, 30 Rpm, 546 Gpm, 130 Spm, 2375 Spp, 500 Diff, 153 MM Rpm, Trq 6K	0.5
DRL CURVE-SLIDE	Slide Drill 8 1/2" Curve Section 64' @ 64 Ft/Hr, 35 M# Wob, 450 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2375 Spp, TFO- HS	1
DRL CURVE-ROT	Rotate Drill 8 1/2" Curve Section 26' @ 104 Ft/Hr, 30 M# Wob, 30 Rpm, 546 Gpm, 130 Spm, 2375 Spp, 500 Diff, 153 MM Rpm, Trq 6K	0.25
DRL CURVE-SLIDE	Slide Drill 8 1/2" Curve Section 54' @ 72 Ft/Hr, 35 M# Wob, 450 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2375 Spp, TFO- HS	0.75

### Time Log Summary

Operation	Com	Dur (hr)
DRL CURVE-ROT	Rotate Drill 8 1/2" Curve Section 41' @ 54.6 Ft/Hr, 30 M# Wob, 30 Rpm, 546 Gpm, 130 Spm, 2375 Spp, 550 Diff, 153 MM Rpm, Trq 6K	0.75
DRL CURVE-SLIDE	Slide Drill 8 1/2" Curve Section 20' @ 80 Ft/Hr, 30 M# Wob, 450 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2375 Spp, TFO- HS	0.25
DRL CURVE-ROT	Rotate Drill 8 1/2" Curve Section 75' @ 100 Ft/Hr, 30 M# Wob, 30 Rpm, 546 Gpm, 130 Spm, 2375 Spp, 550 Diff, 153 MM Rpm, Trq 6K	0.75
DRL CURVE-SLIDE	Slide Drill 8 1/2" Curve Section 95' @ 126.6 Ft/Hr, 30 M# Wob, 450 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2375 Spp, TFO- HS Landed the Curve @ 9042-PTB: 9042', INC: 88.0 AZM: 359.0, TVD: 8722.05 6.0 Above, 14.0 Right	0.75
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 286' @ 104 Ft/Hr, 35 M# Wob, 80 Rpm, 546 Gpm, 130 Spm, 2375 Spp, 600 Diff, 153 MM Rpm, Trq 12K	2.75
DRL LAT-SLIDE	Slide Drill 8 1/2" Curve Section 10' @ 40 Ft/Hr, 35 M# Wob, 450 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2375 Spp, TFO- HS	0.25
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 466' @ 133 Ft/Hr, 35 M# Wob, 80 Rpm, 546 Gpm, 130 Spm, 2375 Spp, 600 Diff, 153 MM Rpm, Trq 12K	3.5

### Report #: 15 Daily Operation: 8/5/2014 06:00 - 8/6/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 031484
Days From Spud (days) 14	Days on Location (days) 14	End Depth (ftKB) 12,753.0
	End Depth (TVD) (ftKB) 8,700.3	Dens Last Mud (lb/gal) 9.00
	Rig PATTERSON - UTI, 245	

#### Operations Summary

Rotate/Slide Drill 8 1/2" Lateral Section F/ 9,804'-10,655'. Rig Service. Rotate/Slide Drill 8 1/2" Lateral Section F/10,655'-12,753'

#### Remarks

Rig (Patterson 245) & Well Progress: 35.00 days on location, 14.14 days since rig accepted on, 14 days since spud. Rig move day's 6.00

Rig NPT: 0 hours for previous 24 hours. 3.25 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 46%

Line Proximity: 6.0' Above, 13.6' Left of Plan #3

Estimated Pad Completion: 10/1/2014

Patterson-Uti Short 1 hand on nights

### Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 296' @ 118 Ft/Hr, 35 Wob, 80 Rpm, 546 Gpm, 130 Spm, 2375 Spp, 600 Diff, 153 MM Rpm, Trq 12K SPR @ 8,719' TVD	2.5
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 10' @ 40 Ft/Hr, 35 Wob, 350 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, TFO- 100 R	0.25
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 280' @ 140 Ft/Hr, 35 k Wob, 80 Rpm, 546 Gpm, 130 Spm, 2520 Spp, 750 Diff, 153 MM Rpm, Trq 16K	2
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 10' @ 20 Ft/Hr,, 30 Wob, 600 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, TFO- 45 R	0.5
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section' 255 @ 145.7 Ft/Hr, 32 k Wob, 80 Rpm, 546 Gpm, 130 Spm, 2520 Spp, 600 Diff, 153 MM Rpm, Trq 12K	1.75
RIG_SVC	Service & Lubricate rig, Draw Works, Top Drive, Blocks, Crown & St-80.	1
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 115' @ 115 Ft/Hr, 32 k Wob, 80 Rpm, 546 Gpm, 130 Spm, 2520 Spp, 600 Diff, 153 MM Rpm, Trq 12K,	1
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 10' @ 40 Ft/Hr,, 30 Wob, 600 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, TFO- 160 L	0.25
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 641' @ 142 Ft/Hr, 35 k Wob, 80 Rpm, 546 Gpm, 130 Spm, 3300 Spp, 750 Diff, 153 MM Rpm, Trq 14K, SPR @ 8,718' TVD	4.5
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 10' @ 14 Ft/Hr,, 40 Wob, 350 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, TFO- 60 R	0.75
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 1226' @ 140 Ft/Hr, 35 k Wob, 80 Rpm, 546 Gpm, 130 Spm, 3250 Spp, 70 Diff, 153 MM Rpm, Trq 14K,	8.75

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 5' @ 20 Ft/Hr., 40 Wob, 350 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, TFO- 60 R	0.25
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 90' @ 180 Ft/Hr, 35 k Wob, 80 Rpm, 546 Gpm, 130 Spm, 3250 Spp, 70 Diff, 153 MM Rpm, Trq 14K,	0.5

<b>Report #: 16 Daily Operation: 8/6/2014 06:00 - 8/7/2014 06:00</b>						
Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 031484	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PATTERSON - UTI, 245	
15	15	15,131.0	8,719.1	9.00		

Operations Summary  
Rotate/Slide Drill 8 1/2" Lateral Section F/ 14,100' to 14,497'. Rig Service. Rotate/Slide Drill 8 1/2" Lateral Section F/ 14,497' to 15,131

Remarks  
Rig (Patterson 245) & Well Progress: 35.00 days on location, 15.14 days since rig accepted on, 15 days since spud. Rig move day's 6.00

Rig NPT: 0 hours for previous 24 hours. 3.25 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 75%

Line Proximity: 0.5' Above, 13' Left of Plan #3

Estimated Pad Completion: 9/15/2014

Time Log Summary		
Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 17' @ 34 Ft/Hr, 32 k Wob, 80 Rpm, 546 Gpm, 130 Spm, 3250 Spp, 750 Diff, 153 MM Rpm, Trq 14K,	0.5
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 10' @ 13.3 Ft/Hr., 40 K Wob, 150 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, TF 160-L	0.75
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 180' @ 144 Ft/Hr, 35 k Wob, 80 Rpm surface 153 mm rpm, 546 Gpm, 130 Spm, 3250 Spp, 750 Diff, , Trq 14K,	1.25
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 7' @ 14.0 Ft/Hr., 40 K Wob, 750 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, GTF 180-R	0.5
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 658' @ 138.5 Ft/Hr, 35 k Wob, 80 Rpm surface 153 mm rpm, 546 Gpm, 130 Spm, 2715 Spp, 650 Diff, , Trq 18K,	4.75
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 10' @ 20.0 Ft/Hr., 32 K Wob, 700 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, GTF 169-R	0.5
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 465' @ 124 Ft/Hr, 28 k Wob, 80 Rpm surface 156 mm rpm, 546 Gpm, 133 Spm, 3570` Spp, 650 Diff, , Trq 14K,	3.75
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 10' @ 20.0 Ft/Hr., 32 K Wob, 700 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, GTF 150-R	0.5
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 280' @ 140 Ft/Hr, 32 k Wob, 80 Rpm surface 156 mm rpm, 546 Gpm, 133 Spm, 2900` Spp, 600 Diff, , Trq 15K  SPR @ 8,704' TVD	2
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 7' @ 7 Ft/Hr., 32 K Wob, 700 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, GTF 120 L	1
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 88' @ 88 Ft/Hr, 32 k Wob, 80 Rpm surface 156 mm rpm, 546 Gpm, 133 Spm, 2900` Spp, 600 Diff, , Trq 15K	1
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 12' @ 16 Ft/Hr., 32 K Wob, 700 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, GTF 150 L  BOP Drill @ 23:15 pm elapsed time 1.46 min	0.75
RIG_SVC	Rig Service	0.5
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 117' @ 88 Ft/Hr, 32 k Wob, 80 Rpm surface 156 mm rpm, 546 Gpm, 133 Spm, 2900` Spp, 600 Diff, , Trq 15K	1.5
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 12' @ 48 Ft/Hr., 32 k Wob, 700 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, GTF 150 L	0.25
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 271' @ 135.5 Ft/Hr, 32 k Wob, 80 Rpm surface 156 mm rpm, 546 Gpm, 133 Spm, 2900` Spp, 600 Diff, , Trq 15K	2
DRL LAT-SLIDE	Slide Drill 8 1/2" Lateral Section 10' @ 10 Ft/Hr., 40 k Wob, 700 Diff, 153 MM rpm, 546 Gpm, 130 Spm, 2480 Spp, GTF 40 R	1
DRL LAT-ROT	Rotate Drill 8 1/2" Lateral Section 165' @ 110 Ft/Hr, 35 k Wob, 80 Rpm surface 156 mm rpm, 546 Gpm, 133 Spm, 2900` Spp, 600 Diff, , Trq 15K	1.5

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Report #: 17 Daily Operation: 8/7/2014 06:00 - 8/8/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 031484		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
16	16	17,071.0	8,709.9	9.20	PATTERSON - UTI, 245			

Operations Summary  
 Rotate/Slide Drill 8 1/2" Lateral Section F/ 15,131' to 15,508'. Rig Service. Rotate/Slide Drill 8 1/2" Lateral Section F/ 15,508 to 17,071' TD, Perform clean up cycle

Remarks  
 Rig (Patterson 245) & Well Progress: 35.00 days on location, 16.14 days since rig accepted on, 16 days since spud. Rig move day's 6.00  
 Rig NPT: 0 hours for previous 24 hours. 3.25 NPT hours for August.  
 Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 100%  
 Line Proximity: 2' Right' 1' High of Plan #3  
 Estimated Pad Completion: 9/15/2014

### Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 15' @ 60 ft/hr, 30 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3100` Spp, 650 Diff, , Trq 18K	0.25
DRL_SLIDE	Slide/Drill 8 1/2" Lateral Section 5' @ 10 ft/hr. 65 k wob, 175 Diff, 155 MM rpm, 553 Gpm, 132 Spm, 3140 spp, GTF 45 R	0.5
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 279' @ 101 ft/hr, 30 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3140` Spp, 650 Diff, , Trq 18K	2.75
DRL_SLIDE	Slide/Drill 8 1/2" Lateral Section 7' @ 14 ft/hr. 65 k wob, 175 Diff, 155 MM rpm, 553 Gpm, 132 Spm, 3140 spp, GTF 170 R	0.5
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 71' @ 95 ft/hr, 30 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3140` Spp, 650 Diff, , Trq 18K	0.75
RIG_SVC	Service top drive, drawworks, crown.	1
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 22' @ 88 ft/hr, 30 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3140` Spp, 650 Diff, , Trq 16K	0.25
DRL_SLIDE	Slide/Drill 8 1/2" Lateral Section 10' @ 13 ft/hr. 38 k wob, 200 Diff, 155 MM rpm, 553 Gpm, 132 Spm, 3230 spp, GTF 180 R	0.75
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 175' @ 117 ft/hr, 30 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3150` Spp, 480 Diff, , Trq 12K	1.5
DRL_SLIDE	Slide/Drill 8 1/2" Lateral Section 10' @ 20 ft/hr. 38 k wob, 150 Diff, 155 MM rpm, 553 Gpm, 132 Spm, 3230 spp, GTF 180 R	0.5
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 280' @ 124 ft/hr, 25/28 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3150` Spp, 650 Diff, , Trq 12K	2.25
DRL_SLIDE	Slide/Drill 8 1/2" Lateral Section 10' @ 20 ft/hr. 45 k wob, 125 Diff, 155 MM rpm, 553 Gpm, 132 Spm, 3230 spp, GTF 180 R	0.5
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 375' @ 107 ft/hr, 25/28 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3255` Spp, 535 Diff, , Trq 16K	3.5
DRL_SLIDE	Slide/Drill 8 1/2" Lateral Section 10' @ 6 ft/hr. 45 k wob, 125 Diff, 155 MM rpm, 553 Gpm, 132 Spm, 3230 spp, GTF HS	1.75
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 80' @ 107 ft/hr, 25/28 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3255` Spp, 535 Diff, , Trq 16K	0.75
DRL_SLIDE	Slide/Drill 8 1/2" Lateral Section 12' @ 24 ft/hr. 45 k wob, 125 Diff, 155 MM rpm, 553 Gpm, 132 Spm, 3230 spp, GTF HS	0.5
DRL_ROT	Rotate Drill 8 1/2" Lateral Section 579' @ 122 ft/hr, 35 k wob, 80 rpm surface 155 mm rpm, 553 Gpm, 132 Spm, 3800` Spp, 535 Diff, , Trq 18K TD @ 4:45 am 17,071'	4.75
CIRC	Circulate clean up cycles at 554 Gpm. Pump 10 bbl diesel sweep. Work pipe 80 Rpm up and 40 Rpm down.	1.25

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

**Report #: 18 Daily Operation: 8/8/2014 06:00 - 8/9/2014 06:00**

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 031484
Days From Spud (days) 17	Days on Location (days) 17	End Depth (ftKB) 17,071.0	End Depth (TVD) (ftKB) 8,709.9	Dens Last Mud (lb/gal) 9.30	Rig PATTERSON - UTI, 245

Operations Summary  
Perform clean up cycle's. TOOH f/ 16760' to 16,105'. Pump 30 bbl. dry pipe slug. TOOH f/ 16,105' to 103.29' and lay down directional assembly. Pull wear bushing. Slip and cut drill line. Rig down bails, elevators and stabbing guide from Top Drive

Remarks  
Rig (Patterson 245) & Well Progress: 35.00 days on location, 17.14 days since rig accepted on, 17 days since spud. Rig move day's 6.00  
Rig NPT: 0 hours for previous 24 hours. 3.25 NPT hours for August.  
Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 100%  
Line Proximity: 1.5' Right' 0.9' Below of Plan #3  
Estimated Pad Completion: 9/15/2014  
Notified TRRC @ 3:00 am Operator: IJuana

**Time Log Summary**

Operation	Com	Dur (hr)
CIRC	Circulate clean up cycles at 554 Gpm. Work pipe 80 Rpm up and 40 Rpm down. Circulate BU, pull & stand 1 stand back & circulate BU. Repeat cycle for 4 stds. Shakers cleaned up on cuttings. prepare to TOOH to run 5 1/2" production casing.	5.75
TOOH	TOOH f/ 16760.0 to 16,105.0. No extreme overpull. Drlg StWt, 209 K w/ pumps. P/U StWt w/o pumps. 260-275K. Hole taking proper fill from trip tank.	0.75
CIRC	Pump 30 bbl. dry pipe slug. Check flow {ok} SLM 11 stds in derrick.	0.25
TOOH	TOOH f/ 16,105' to 103.29 ( SLM) for prod. csg run. No extreme overpull. Hole taking proper fill from trip tank.	10.75
BHA_HAN DLING	Lay Down Motor, MWD tool and break bit. Clean rig floor	2
WEARBUS HING	Back out lock nuts on wear bushing. Pull, inspect wear bushing {OK}. P/U joint d.p., wash jet sub, and wash out well head. L/D same. Witnessed by PNR Rep.	1.25
CUTDL	Slip and Cut 120' of drill line. Function Test BOP	2
CASE	Rig down elevators, bails and remove stabbing guide from Top Drive	1.25

**Report #: 19 Daily Operation: 8/9/2014 06:00 - 8/10/2014 06:00**

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 031484
Days From Spud (days) 18	Days on Location (days) 18	End Depth (ftKB) 17,071.0	End Depth (TVD) (ftKB) 8,709.9	Dens Last Mud (lb/gal) 9.30	Rig PATTERSON - UTI, 245

Operations Summary  
R/U csg crew, PJSM, Run 5 1/2" Production casing F/ 110'-8,019'. Circulate bottoms up, Run 5 1/2" Production casing F/ 8,019'-8,999'. Circulate bottoms up. Run 5 1/2" Production casing F/8,999'-13,020'. Circulate bottoms up. Run 5 1/2" Production casing F/13,020'-15,096'.

Remarks  
Rig (Patterson 245) & Well Progress: 35.00 days on location, 18.14 days since rig accepted on, 18 days since spud. Rig move day's 6.00  
Rig NPT: 0 hours for previous 24 hours. 3.25 NPT hours for August.  
Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 100%  
Line Proximity: 1.5' Right' 0.9' Below of Plan #3  
Estimated Pad Completion: 9/15/2014

**Time Log Summary**

Operation	Com	Dur (hr)
CASE	Rig up Tesco CRT, and casing equipment. Held PJSM with all crew's, Tool Pusher, PRN representatives present.	2
CASE	M/U 5-1/2" 20 ppf P-110 BTC shoe track + Toe Sleeve ( toe sleeve bucked with pup joints on each end). Test Floats (test good). ? Thread locked every connection from the shoe to the top of the float collar.	1
CASE	Run 5-1/2" 20# P110 BTC production casing F/ 110' - 8,019'. Casing making up to the base of the triangle. Filling pipe every 30 joints, breaking circ. every 70 joints with 45 spm 150 - 200 spp. Hole displacing properly into trip tank.	12
CIRC	Circulate bottoms up at 8,019'. 3673 strokes at 65 spm 257 spp. Full returns to surface	0.5
CASE	Run 5-1/2" 20# P110 BTC production casing F/ 8,019' - 8,993'. Casing making up to the base of the triangle. Filling pipe every 30 joints, breaking circ. every 70 joints with 45 spm 150 - 200 spp. Hole displacing properly into trip tank.	0.75
CIRC	Circulate bottoms up at 8,993'. 4122 strokes at 65 spm 353 spp. Full returns to surface	1
CASE	Run 5-1/2" 20# P110 BTC production casing F/ 8,993'-13,020'. Casing making up to the base of the triangle. Filling pipe every 30 joints, breaking circ. every 70 joints with 45 spm 150 - 300 spp. Hole displacing properly into trip tank.	4
CIRC	Circulate bottoms up at 13,020'. 5979 strokes at 65 spm 353 spp. Full returns to surface	1.25

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
CASE	Run 5-1/2" 20# P110 BTC production casing F/13,020'-15,096' Casing making up to the base of the triangle. Filling pipe every 30 joints, breaking circ. every 70 joints with 45 spm 150 - 300 spp. Hole displacing properly into trip tank.	1.5

<b>Report #: 20 Daily Operation: 8/10/2014 06:00 - 8/11/2014 06:00</b>						
Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 031484	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
19	19	17,071.0	8,709.9	9.30	PATTERSON - UTI, 245	

Operations Summary  
 Finished running 5-1/2" 20# P110 production casing. PU casing hanger and running tool, land casing hanger in wellhead. Circulate while waiting on Schlumberger to get lab results on lead cement. Cement 5.5 production casing. Rig down cementers, back off landing jt, install pack off, energize lock pins., L/D landing jt and running tool. Nipple down BOP,s, installed abandonment cap. (Final Report for the University 3-14-12H) Prepare to skid to the University 3-14-13H.

Remarks  
 Rig (Patterson 245) & Well Progress: 35.00 days on location, 19.14 days since rig accepted on, 19 days since spud. Rig move day's 6.00  
 Rig NPT: 0 hours for previous 24 hours. 3.25 NPT hours for August.  
 Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 100%  
 Line Proximity: 1.5' Right' 0.9' Below of Plan #3  
 Estimated Pad Completion: 9/15/2014

Time Log Summary		
Operation	Com	Dur (hr)
CASE	Run 5-1/2" 20# P110 BTC production casing F/15,096'-17,020' Casing making up to the base of the triangle. Filling pipe every 30 joints, breaking circ. every 70 joints with 45 spm 200 - 300 spp. Hole displacing properly into trip tank. Ran 30 Rigid centralizers: 1 every joint from 90° Inc. to KOP then 1 every 2nd joint from KOP to 500' inside the intermediate casing.	2
CASE	P/U casing hanger and running tool, land casing hanger in well head, Witnessed by PNR Representative, Seaboard rep. Landed in well head @ 17,052'	1
CIRC	Circulate @ 17,0052' with 82 spm, 345 gpm.	1.5
U_CMT	Circulate @ 17,0052' with 55 spm, 238 gpm. {Waiting on second lab results on lead Cement, initial test failed. Lab results on tail cement good. }	7.5
CMT	Second lab test on lead cement good.PJSM with Schlumberger cement crew, rig crew, tool pusher, Weatherford Toe Sleeve hand and PNR representative on cementing operations. Rig up bails and elevators.	1.25

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Time Log Summary

Operation	Com	Dur (hr)
CMT	Pump cement job for 5 1/2" 20# P110 BTC Production Casing as follows:  Mudpush Express: 50 bbls @ 10.5 lb/gal (anti foam .200), mudpush express B389, 1.20 lb/bbl BW/v.spacer, surfactant B220 2.0 gal/bbl if space, weighting agent 2835.5 lb/mgal.  Lead: 256 bbls, 501 sks 11.00 ppg (75 lb/sk of Blend) of TXI Cement, Yield 2.87 ft <sup>3</sup> /sk, Mix water 17.136 gal/sk, Mix fluid 17.136 with D049 cement 75.0 lb/sk WBWOB, D046 Anti-Foam 0.2% BWOB, D065 Dispersant 0.1% ,D208 Visc 0.1%,BWOB, and D013 Retarder 0.7% BWOB, D207 fluid loss .5% BWOB, D020 extender 10.0% BWOB, D178 silica 6.0%, D042 extender 5.0 lb/skWBWOB  Tail: 455 bbls, 1566 sks 12.5 ppg (75 lb/sk of Blend) of TXI Cement, Yield 1.70 ft <sup>3</sup> /sk, Mix water 8.763 gal/sk, Mix fluid 8.763 with D049 cement 75.0 lb/sk WBWOB, D046 Anti-Foam 0.2% BWOB, D065 Dispersant 0.1% BWOB, and D013 Retarder 0.1% BWOB, D112 fluid loss 0.7% BWOB, D020 extender 7.0% BWOB, D042 extender 5.0 lb/sk WBWOB.  PNR representative observed tattle tail leave cement head when pumping down top plug. Displaced with 372 bbls 8.32 H2O mixed with .084 gal/bbl Green-Cide 25G B244. Bump plug @ 24:00 hrs 8/11/14 with 500 psi over final lift pressure of 1860 psi (2360 psi). Held pressure for 5 min, floats held. Released pressure bled back 3 bbls.  Note:Initial Lift pressure 525 psi @ 4.4 bpm, Final lift pressure 1860 psi @ 2.1 bpm.  Monitored well for flow into trip tank for 15 minutes once pressure was released, well static.  Full Returns throughout job. Top of cement estimated to be @ 1,500'.  Top of Float Shoe @ 17,052 Top of Float Collar @ 16,966' Top of Toe Sleeve @ 16,954'  Pressures recorded during displacement= 50 bbls- 7.8 bpm @ 571psi, 100 bbls- 6.0 bpm @ 651 psi, 150 bbls- 6.0 bpm @ 1239 psi, 200 bbls- 6.0 bpm @ 1867 psi, 250 bbls- 6.0 bpm @ 1905 psi, 300 bbls- 6.0 bpm @ 2044 psi, 350 bbls- 2.1 bpm @ 1805 psi, 372 bbls - 2.1 bpm @ 1860 psi.  R/D cementers,	5.25
WLHEAD	Back off landing joint, install pack off, energize lock pins. L/D landing joint. Wash through all BOPE and flowline.	1.75
NU_TEST	N/D B.O.P. and flowline Remove hydraulic lines and turnbuckles. L/D B.O.P. and install abandonment cap. Release rig @ 06:00 am 8/11/2014	3.75

### Report #: 1 Daily Operation: 9/19/2014 06:00 - 9/20/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
59	1	0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

### Operations Summary

Plumb in surface and intermediate casing to ground level. Painted intermediate 2" Ball Valve Green and 2" Surface Ball Valve Red , NU B Section and bushing and test to 7K , Good Test . Fill in cellar with pea gravel , NU 7 1/16 10k bottom master valve and flowcross Well Secure, Shut down for the night

### Remarks

Day Shift: Wendell Wiggins  
Renegade: No downtime  
Seaboard: No downtime  
Priority: No downtime

### Time Log Summary

Operation	Com	Dur (hr)
SDFN	No Activity	1
SAFETY	Held safety meeting with Renegade,Seaboard and Priority	1
RURD	Plumb in surface and intermediate casing to ground level. Painted intermediate 2" Ball Valve Green and 2" Surface Ball Valve Red , NU B Section and bushing test to 7K , Good Test . Fill in cellar with pea gravel , NU 7 1/16 10k bottom master valve and flowcross.	8
SDFN	Well Secure, Shut down for the night	14

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

**Report #: 2 Daily Operation: 9/20/2014 06:00 - 9/21/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
60	2	0.0				

Operations Summary  
 MIRU API Wireline. RIH with CCL/GR  
 RIH with 4.625" gauge ring and junk basket to a depth of 8,874'.  
 First pass without pressure. Logged to surface  
 Second pass with 1,500 psi. Logged to surface  
 Estimated top of cement at 4,235'.  
 WSI

Notes: Surface painted red/ Intermediate painted green

Remarks  
 Day Shift: Wendell Wiggins  
 API: No Downtime

**Time Log Summary**

Operation	Com	Dur (hr)
SDFN	WSI waiting on log.	1
SAFETY	Held safety meeting with API Wireline, Key Energy, BTT	0.5
WSI	Waiting on logging ops on 13H.	7
LOGCBL	MIRU API Wireline. RIH with 4.625" gauge ring and junk basket to a depth of 8,874' wlm. RIH with CCL/GR Log first pass from a depth of 8,872' wlm without pressure. Logged to surface. Log second pass form a depth of 8,872' wlm with 1,500 psi. Logged to surface estimated top of cement at 4,235'.	8
RURD	POOH with CCL/GR. Bled pressure down to 0 psi on the well. Rigged down API Wireline and move off location Well secure, Shut down for the night.	1
SDFN	WSI, No Activity	6.5

**Report #: 3 Daily Operation: 9/21/2014 06:00 - 9/22/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
61	3	0.0				

Operations Summary  
 Hold JSA  
 NU upper frac stack  
 MIRU containment for tanks  
 MIRU PNR frac tanks

Remarks  
 Day Shift: Wendell Wiggins

**Time Log Summary**

Operation	Com	Dur (hr)
WSI	WSI waiting on crews to arrive	2
SAFETY	JSA Meeting	0.5
RURD	Priority NU the 7 1/16" 10K top frac valve. MIRU Sprint containment system for FB/PD and FW tanks. MIRU 7 working tanks, 2 PD tanks and 2 FB tanks. Move in 2 TanMar skid mount crew trailers.	9.5
SDFN	WSI	12

**Report #: 4 Daily Operation: 9/22/2014 06:00 - 9/23/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
62	4	0.0				

Operations Summary  
 MIRU Express FB  
 Fill working tanks  
 WSI

Remarks  
 Day Shift: Wendell Wiggins

**Time Log Summary**

Operation	Com	Dur (hr)
WSI	WSI	2
SAFETY	Held JSA	0.5
RURD	MIRU Express FB for frac	9.5
WSI	WSI	12

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

<b>Report #: 5 Daily Operation: 9/23/2014 06:00 - 9/24/2014 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
63	5	0.0				
Operations Summary Set up for frac						
Remarks Day Shift: Wendell Wiggins						
<b>Time Log Summary</b>						
Operation	Com					Dur (hr)
WOZF	Waiting on frac ops					24
<b>Report #: 6 Daily Operation: 9/24/2014 06:00 - 9/25/2014 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
64	6	0.0				
Operations Summary Set up for frac						
Remarks Day Shift: Neal Montgomery - Ryan Winkler Night Shift: Wendell Wiggins - Kevin Armstrong						
<b>Time Log Summary</b>						
Operation	Com					Dur (hr)
WOZF	Waiting on frac ops					24
<b>Report #: 7 Daily Operation: 9/25/2014 06:00 - 9/26/2014 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
65	7	0.0				
Operations Summary Set up for frac MIRU RSI MIRU Express FB						
Remarks Day Shift: Neal Montgomery - Ryan Winkler Night Shift: Wendell Wiggins - Kevin Armstrong						
<b>Time Log Summary</b>						
Operation	Com					Dur (hr)
WOZF	Wait on Frac Ops					15.5
RURD	MIRU RSI pumping services and Express FB and lay iron to wells.					5.5
WOF	WSI waiting on PPS					3
<b>Report #: 8 Daily Operation: 9/26/2014 06:00 - 9/27/2014 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
66	8	0.0				
Operations Summary Set up for frac MIRU VZ & set contain. mats MIRU API LUB.						
Remarks Day Shift: Neal Montgomery - Ryan Winkler Night Shift: Wendell Wiggins - Kevin Armstrong						
<b>Time Log Summary</b>						
Operation	Com					Dur (hr)
WOF	Wait on Frac					1.5
RURD	MIRU VZ Environmental & set up containment pads.					10
WOF	WSI waiting on PPS					12.5
<b>Report #: 9 Daily Operation: 9/27/2014 06:00 - 9/28/2014 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
67	9	0.0				
Operations Summary MIRU PPS All other Service Comp. are rigged up and ready						
Remarks Day Shift: Neal Montgomery - Ryan Winkler Night Shift: Wendell Wiggins - Kevin Armstrong						

Time Log Summary		
Operation	Com	Dur (hr)
WOF	RU PPS	24

**Report #: 10 Daily Operation: 9/28/2014 06:00 - 9/29/2014 06:00**

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 031463
Days From Spud (days) 68	Days on Location (days) 10	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary  
MIRU PPS  
All other Service Comp. are rigged up and ready

Remarks  
Day Shift: Neal Montgomery - Ryan Winkler  
Night Shift: Wendell Wiggins - Kevin Armstrong

Time Log Summary		
Operation	Com	Dur (hr)
WOF	MIRU PPS	24

**Report #: 11 Daily Operation: 9/29/2014 06:00 - 9/30/2014 06:00**

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 031463
Days From Spud (days) 69	Days on Location (days) 11	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary  
Toe sleeve would not open

Remarks  
Day Shift: Neal Montgomery - Ryan Winkler  
Night Shift: Wendell Wiggins - Kevin Armstrong

PPS Downtime: 0 hrs. Cum. 6.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 0 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 0 BBL

TSIF: 0 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
WOF	PPS continues RU	1
WOZF	Wait on ops on 13H and 14H	14.75
U_PEPXD	Hydration unit air compressor hose failed. Unable to maintain operating pressure.	3.25
STIM	Pressured up to 7,500 psi @ 1-2 bpm, and held for 15 min, bring up to 9510 psi, and held for 45 min,, sleeve did not open. 2nd attempt made (per engineer), pressured to 9885 psi, Monitor for 45 mins. Bleed off pressure, (3rd attempt) repressure sleeve to 9800 psi (per engineer), hold 45 mins. Bleed off, Decision made to RIH with Coiled Tubing.	3.5
SDP	Waiting on coiled tubing unit	1.5

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

**Report #: 12 Daily Operation: 9/30/2014 06:00 - 10/1/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 031463
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Days From Spud (days) 70	Days on Location (days) 12	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
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Operations Summary  
 MIRU PPS coil  
 RIH w/ CTU  
 POOH w/CTU  
 WSI waiting to perforate

Remarks  
 Day Shift: Neal Montgomery - Ryan Winkler  
 Night Shift: Wendell Wiggins - Kevin Armstrong

PPS Downtime: 0 hrs. Cum. 6.0 hrs.  
 Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
 Select Downtime: 0 hrs. Cum. 0.0 hrs.  
 API Downtime: 0 hrs. Cum. 0 hrs.  
 RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
 Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 0 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 0 BBL

TSIF: 0 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
WOZF	Wait on frac ops on 14H	8
RURD	MIRU PNR Coil	3
CLNOUT_C T	MU & pull test coil connector. MU BHA, Coil connector, Dual BPV, CTT Jars, Hyd disconnect, Tempres Screen, Tempres agitator, XO, 3 1/8" SRT Hi Torque motor, XO, 4 5/8" JZ Rockbit. Test run motor. Pressure test to 5000 psi. RIH to tag toe sleeve at 16,953'. Send a 10bbl sweep, 10bbl space and another 10bbl sweep. POOH with CT.	8
WOZF	Wait on cleanout run on #13H to perforate.	5

**Report #: 13 Daily Operation: 10/1/2014 06:00 - 10/2/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 031463		
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Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
71	13	0.0			

Operations Summary  
RIH with PPS CT for cleanout run and TCP Ops.

RU CDK TCP Guns. RIH to perf stg #2 of 28 (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Perforate at intervals: 16932'-16934', 16572'-16574', 16512'-16514', 16452'-16454', 16392'-16394', Total of 40 shots. POOH. Confirmed all guns fired

Oil States BHA for TCP Guns

DESCRIPTION	O.D	I.D	LENGTH	CONNECTIONS
Coil Connector	3.12	1.04	0.87	2 3/8" pipe slips / 2.375" PAC Pin
Dual BPV	2.88	1.04	1.21	2.375" PAC Box / 2.375" PAC Pin
CTT Bi-Dir Hyd Jar	2.87	1.04	5.40	2.375" PAC Box / 2.375" PAC PIN
Hyd. Disconnect	2.88	0.668	2.13	2.375" PAC Box / 2.375" PAC Pin
Crossover	2.88		0.65	2.375" PAC Box / 2.375" 8RD Pin

DROP BALL [ 0.75 ]

Remarks  
Day Shift Bobby Stevens - James Boyster  
Night Shift: Neal Montgomery - Ryan Winkler

PPS Downtime: 0 hrs. Cum. 6.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 0 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 0 BBL

TSIF: 0 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
SAFETY	SAFETY MEETING	0.25
WOZF	Wait on cleanout run on #13H to perforate.	9.75

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary					
Operation	Com				Dur (hr)
TCP	RU CDK TCP Guns. RIH to perf stg #2 of 28 (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Perforate at intervals: 16932'-16934',16572'-16574',16512'-16514',16452'-16454',16392'-16394', Total of 40 shots. POOH. Confirmed all guns fired. RD PPS CT.				6
Oil States BHA for TCP Guns					
DESCRIPTION	O.D	I.D	LENGTH	CONNECTIONS	
Coil Connector	3.12	1.04	0.87	2 3/8" pipe slips / 2.375"PAC Pin	
Dual BPV	2.88	1.04	1.21	2.375" PAC Box / 2.375" PAC Pin	
CTT Bi-Dir Hyd Jar	2.87	1.04	5.40	2.375" PAC Box / 2.375" PAC PIN	
Hyd. Disconnect	2.88	0.668	2.13	2.375" PAC Box / 2.375" PAC Pin	
Crossover	2.88		0.65	2.375" PAC Box / 2.375" 8RD Pin	
DROP BALL [ 0.75 ]					
RURD	RD CT / MIRU WL & API				6.5
WOZF	Wait on ops on #13				1.5

<b>Report #: 14 Daily Operation: 10/2/2014 06:00 - 10/3/2014 06:00</b>					
Job Category			Primary Job Type		AFE Number
ORIG COMPLETION			OCM		031463
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
72	14	0.0			PIONEER PUMPING SERVICES, PPS #6

Operations Summary  
 Pressured out on stg 2 Frac, Per Eng. Move up to next zone and perf  
 perf stg 3/POOH Logging out GR/CCL

Remarks  
 Day Shift Bobby Stevens - James Boyster  
 Night Shift: Neal Montgomery - Ryan Winkler

PPS Downtime: 2 hrs. Cum. 8.0 hrs.  
 Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
 Select Downtime: 0 hrs. Cum. 0.0 hrs.  
 API Downtime: 0 hrs. Cum. 0 hrs.  
 RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
 Weather Downtime: 0.0 hr Total: 0 hours  
 Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 4654 BBL  
 RT: 0 BBL  
 CR: 0 BBL  
 LTR: 4654 BBL  
 TSIF: 1502 lbs.

Time Log Summary		
Operation	Com	Dur (hr)
WOF	WAITING ON FRAC OPS ON THE #14H	2.75

**Time Log Summary**

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 2 of 28 Test stack to 9090 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 36 bbls 15% HCL, 1502 lbs 30/50 sand &amp; 4126 bbls of hybrid fluid linear Xlink down 5.5" 20#csg. Formation broke @ 8767 psi @ 40 bpm</p> <p>Step Test 80 bpm @ 8291 psi 60 bpm @ 7083 psi 40 bpm @ 5800 psi 20 bpm @ 4545 psi</p> <p>Pad ISIP: 3492 psi. FG: 0.84. 5 min SIP: 3006 psi.</p> <p>Acid on form @ 40 bpm 7287 psi Acid clear @ 40 bpm 6121psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 75 *F. Pumped 2660 bbl pad. Flushed well with &amp; 1430 bbls. Ending rate 22 bpm @ 8500 psi.</p> <p>Avg. rate: 33 bpm Avg. psi: 7202 psi Max. rate: 81 bpm Max. psi: 9363 psi End of job ISIP N/A FG: N/A</p> <p>FTR: 4126 LTR: 4126 TSIF: 1502</p> <p>RAN A .25# SLUG AND WELL PRESSURED OUT PLACING 1,502 LBS IN FORMATION</p>	1.75
FLW_SCR N	<p>WELL PSI WAS 9000 PSI @ 66 BPM TURNED ON XLINK AND PSI STARTED CLIMBING, DROPPED RATE DOWN TO 40 BPM RAN A 1000 LBS .25# SLUG AND WHEN SLUG HIT BOTTOM PSI CAME UP CUT XLINK AND TRIED TO FLUSH THE WELL PSI CLIMBED KEPT CLIMBING PUMPED 110 BBLS OF FLUSH SHUTDOWN AND TRIED TO FLOW BACK WELL WOULD NOT FLOWBACK</p> <p>ENGINEER WANTED TO TRY TO DO A INJECTION TEST</p>	2.25
STIM	<p>FLUSHED WELL @ 4 BPM 9000 PSI INCREASED RATE TO 6 BPM @ 8000 PSI RAN 500 GAL ACID TO TRY AND OPEN WELL UP ENOUGH TO PUMP GUNS DOWN PUMPED ACID TO BOTTOM AND INCREASED RATE TO 22 BPM @ 8500 PSI PUMPED CASING VOLUME AND SHUTDOWN TO WIRELINE</p>	4
PERF	<p>RU Ark-La-Tex WL for Stage# 3 of 28. RIH &amp; pump down (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and Perforate at intervals: 16392-16394, 16452-16454, 16512-16514,16572-16574, 16632-16634, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /9118psi, 299 ft/min, 1123 Line Ten.</p> <p>Note didnt run Cfp as per-engineer.</p>	4.75
WOZF	Wait On Frac Ops on 13,14	6.5
U_ZPM	PPS Working on pumps	2

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Report #: 15 Daily Operation: 10/3/2014 06:00 - 10/4/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 031463
Days From Spud (days) 73	Days on Location (days) 15	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6

Operations Summary

Frac stg 3-4  
perf 4-5

Remarks

Day Shift Bobby Stevens - James Boyster  
Night Shift: Neal Montgomery - Ryan Winkler

PPS Downtime: 1.25 hrs. Cum. 9.25.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 21,612 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 21,612 BBL

TSIF: 674,316 lbs.

Time Log Summary

Operation	Com	Dur (hr)
U_ZPM	PPS Working on pumps	1.25
STIM	<p>Frac Stage 3 of 27 Test stack to 9500 psi. Hold 1500 psi on backside.E4 PPS frac'd per schedule w/ 40 bbls 15% HCL, 336485 lbs 30/50 sand &amp; 8165 bbls of hybrid fluid linear Xlink down 5.5" 20#csg. Formation broke @ 8437 psi @ 65 bpm</p> <p>Step Test 80 bpm @ 7334 psi 60 bpm @ 6186 psi 40 bpm @ 5126 psi 20 bpm @ 4051 psi</p> <p>Pad ISIP: 3282 psi. FG: 0.81. 5 min SIP: 3610 psi.</p> <p>Acid on form @ 65 bpm 8602 psi Acid clear @ 65 bpm 6585psi</p> <p>Increased rate to 80 bpm. Started stage w/ 14# gel equivalent loading, 9 cp. @ 70 *F. Pumped 2850 bbl pad. Ramped 30/50 sand from 0.5 ppg to 3 ppg. Flushed well with &amp; 463 bbls. Ending rate 76 bpm @ 6612 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 72 bpm Avg. psi: 7670 psi Max. rate: 81 bpm Max. psi: 9208 psi End of job ISIP 3332 FG: 0.82</p> <p>FTR: 12819 LTR: 12819 TSIF: 337987</p>	2.5
PERF	<p>RU Ark-La-Tex WL for Stage# 4 of 27. RIH &amp; pump down SCHLUMBERGER CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 16349'. Perforate at intervals: 16332-16334, 16272-16274, 16212-16214,16152-16154, 16092-16094, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4760psi, 300 ft/min, 1180 Line Ten.</p> <p>TBP: 365 BBL</p> <p>FTR: 13184 BBL LTR: 13184 BBL</p>	1.75
WOZF	Waiting on Frac Ops.	6
U_PEPXD	Engine Switch on blender had Short	2

# PIONEER

NATURAL RESOURCES

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 4 of 28 Test stack to 9,500 psi. Hold 1,500 psi on backside.E4 PPS frac'd per schedule w/ 36 bbls 15% HCL, 336,329 lbs 20/40 sand &amp; 8,064 bbls of hybrid fluid linear Xlink down 5.5" 20#csq. Formation broke @ 5,640 psi @ 20 bpm</p> <p>Step Test 80 bpm @ 7,092 psi 60 bpm 6,049 psi 40 bpm @ 4,321 psi 20 bpm @ 3,085 psi</p> <p>Pad ISIP: 3,307 psi. FG: 0.81. 5 min SIP: 3,085 psi.</p> <p>Acid on form @ 40 bpm 6477 psi Acid clear @ 60 bpm 6476psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 73 *F. Pumped 2,611 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with &amp; 457 bbls. Ending rate 80 bpm @ 6,616 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 78 bpm Avg. psi: 8,262 psi Max. rate: 80 bpm Max. psi: 8,943 psi End of job ISIP 3,683 FG: 0.86</p> <p>FTR: 20,881 LTR: 20,881 TSIF: 674,316</p>	2.5
PERF	<p>RU Ark-La-Tex WL for Stage# 5 of 28. RIH &amp; pump down SCHLUMBERGER CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 16,049'. Perforate at intervals: 16092-16094, 16152-16154, 16212-16214,16272-16274, 16332-16334, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4800psi, 295 ft/min, 843 Line Ten.</p> <p>TBP: 364 BBL FTR: 21612 BBL LTR: 21612 BBL</p>	3
WOZF	Waiting on Frac Ops.	4
STIM	Start Stage 5 Frac	1

**Report #: 16 Daily Operation: 10/4/2014 06:00 - 10/5/2014 06:00**

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	031463

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
74	16	0.0			PIONEER PUMPING SERVICES, PPS #6

#### Operations Summary

Frac stg 5-7  
Perf stg 6-7

#### Remarks

Day Shift Bobby Stevens - James Boyster  
Night Shift: Neal Montgomery - Ryan Winkler

PPS Downtime: 1.5 hrs. Cum. 9.25.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 34,739 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 34,739 BBL

TSIF: 683,440 lbs.

### Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage 5 of 28 Test stack to 9689 psi. Hold 1500 psi on backside.E4 PPS frac'd per schedule w/ 36 bbls 15% HCL, 1229 lbs 30/50 sand &amp; 5668 bbls of hybrid fluid linear Xlink down 5.5" 20#csq. Formation broke @ 5964 psi @ 20 bpm</p> <p>Step Test    80 bpm @ 7747 psi                   60 bpm @ 6542 psi                   40 bpm @ 5504 psi                   20 bpm @ 4604 psi</p> <p>Pad ISIP: 3548 psi.    FG: 0.84.    5 min SIP: 3261 psi.</p> <p>Acid on form @ 50 bpm 7728 psi Acid clear @ 75 bpm 7842psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 67 *F. Pumped 5080 bbl pad. Once we started X-Link had to back Rate down to 65 bpm due to pressure.Staged 30/50 sand to 0.25 ppg sand slug for 100 bbls. Per Engineer. Flushed well with &amp; 452 bbls. Ending rate 50 bpm @ 8492 psi. Not PTD due to pressure called job Per Engineer. The reason pad was so long was talking to Eng. to see what he wanted to do due to the Rate we was at and the Pressure.</p> <p>Avg. rate: 65 bpm            Avg. psi: 8702 psi Max. rate: 80 bpm            Max. psi: 9411 psi End of job ISIP 4174            FG: 0.91</p> <p>FTR: 27280 LTR: 27280 TSIF: 675,545</p>	1
PERF	<p>RU Ark-La-Tex WL for Stage# 6 of 28. RIH &amp; pump down SCHLUMBERGER CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at N/A'. Perforate at intervals: 15732-15734, 15672-15674, 15612-15614,15552-15554, 15492-15494, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /8500psi, 250 ft/min, 926 Line Ten.</p> <p>TBP: 403 BBL FTR: 27683 BBL LTR: 27683 BBL</p>	2.5
WOZF	WAITING ON FRAC OPS	6.5
STIM	<p>Frac Stage 6 of 28 Test stack to 9500 psi. Hold 1500 psi on backside.E4 PPS frac'd per schedule w/ 36 bbls 15% HCL, 5095 lbs 30/50 sand &amp; 3832 bbls of hybrid fluid linear Xlink down 5.5" 20#csq. Formation broke @ 4718 psi @ 20 bpm</p> <p>Step Test 80 bpm @ N/A psi                   60 bpm @ N/A psi                   40 bpm @ N/A psi                   20 bpm @ N/A psi</p> <p>Pad ISIP: N/A psi.    FG: N/A.    5 min SIP: N/A psi.</p> <p>Acid on form @ 20 bpm 6028 psi Acid clear @ 80 bpm 7861psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 8 cp. @ 76 *F. Pumped 2839 bbl pad. Started 30/50 sand at 0.25 ppg . Due to Pressure we flushed well with &amp; 447 bbls. Ending rate 42 bpm @ 9215 psi.</p> <p>Avg. rate: 70 bpm            Avg. psi: 8407 psi Max. rate: 80 bpm            Max. psi: 9445 psi End of job ISIP 5880            FG: 1.11</p> <p>FTR: 31112 LTR: 31112 TSIF: 680640</p>	1.25
PERF	<p>RU Ark-La-Tex WL for Stage# 7 of 27. RIH &amp; pump down SCHLUMBERGER CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 15449'. Perforate at intervals: 15492-15494, 15552-15554, 15612-15614,15672-15674, 15732-15734, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /9100psi, 280 ft/min, 1124 Line Ten.</p> <p>TBP: 351 BBL FTR: 31866 BBL LTR: 31866 BBL</p>	2.75
WOZF	WAITING ON FRAC OPS	5

**Time Log Summary**

Operation	Com	Dur (hr)
U_PEPXD	PPS Working on Pumps/ Packing & Valves	1.5
STIM	<p>Frac Stage 7 of 28 Test stack to 9500 psi. Hold 1500 psi on backside. E4 PPS frac'd per schedule w/ 47 bbls 15% HCL, 2800 lbs 20/40 sand &amp; 2873 bbls of hybrid fluid linear Xlink down 5.5" 20#csq. Formation broke @ 5,953 psi @ 21 bpm</p> <p>Increased rate to 78 bpm. Started stage w/ 15# gel equivalent loading, 10 cp. @ 70 °F. Pumped 1,510 bbl pad. Pumped 700 bbl of 30/50 sand from 0.1 ppg. Flushed well with &amp; 617 bbls. Ending rate 41 bpm @ 8235 psi.</p> <p>Avg. rate: 52 bpm      Avg. psi: 8274 psi Max. rate: 78 bpm      Max. psi: 8935 psi End of job ISIP 4041      FG: 0.90 Psi/Ft</p> <p>FTR: 34,739 LTR: 34,739 TSIF: 683,440</p> <p>Started .1 ppg on 15#XL Fluid @ 65 bpm 8585 psi, Pressure started on a steady incline, started dropping as pressure increased and finished at 41 bpm @ 8900 with psi on steady climb. Pumped 700 bbl of .1 ppg. Per Engineer / will call it and will RIH and shoot next zone</p>	1.5
PERF	RIH Stage 2 WL	2

**Report #: 17 Daily Operation: 10/5/2014 06:00 - 10/6/2014 06:00**

Job Category		Primary Job Type		AFE Number	
ORIG COMPLETION		OCM		031463	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
75	17	0.0			PIONEER PUMPING SERVICES, PPS #6

Operations Summary  
Perf Stg 8

Remarks  
Day Shift Bobby Stevens - James Boyster  
Night Shift: Neal Montgomery - Ryan Winkler

PPS Downtime: 0.0 hrs. Cum. 9.25.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 35,215 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 35,215 BBL

TSIF: 683,440 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
PERF	<p>RU Ark-La-Tex WL for Stage# 8 of 28. RIH &amp; pump down SCHLUMBERGER CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 15149'. Perforate at intervals: 15132-15134, 15072-15074, 15012-15014, 14952-14954, 14892-14894, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /8000psi, 250 ft/min, 1100 Line Ten.</p> <p>TBP: 383 BBL FTR: 35,215 BBL LTR: 35,215 BBL</p>	2
WSI	WAITING ON ORDERS FROM ENGINEER.	22

# PIONEER

NATURAL RESOURCES

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

**Report #: 18 Daily Operation: 10/6/2014 06:00 - 10/7/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 031463
Days From Spud (days) 76	Days on Location (days) 18	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6

Operations Summary  
WAITING ON ORDERS FROM ENGINEER.

Remarks  
Day Shift Bobby Stevens - James Boyster - Justin Locklar  
Night Shift: Neal Montgomery - Ryan Winkler

PPS Downtime: 0.0 hrs. Cum. 9.25.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 40.960 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 40,960 BBL

TSIF: 688,030 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
WSI	WAITING ON ORDERS FROM ENGINEER.	5
U_ZPM	Pump #11115 valves and seats . Blender #13018 had to change out 4 actuators.	2
STIM	<p>Frac Stage 8 of 28 Test stack to 9800 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 48 bbls 15% HCL once on formation we shut down and let it set for 10 min., 4590 lbs 30/50 sand &amp; 5745 bbls of hybrid fluid linear Xlink down 5.5" 20#csg.</p> <p>Formation broke @ 8489 psi @ 40 bpm</p> <p>Step Test    80 bpm @ 7167 psi               60 bpm @ 6242 psi               40 bpm @ 5424 psi               20 bpm @ 4614 psi</p> <p>Pad ISIP: 3544 psi.    FG: 0.84.    5 min SIP: 3257 psi.</p> <p>Acid on form @ 40 bpm 5422 psi Acid clear @ 67 bpm 7253psi</p> <p>Increased rate to 80 bpm. Started stage w/ 20# gel equivalent loading, 12 cp. @ 76 *F. Pumped 3164 bbl pad. Started 30/50 sand from 0.1 ppg to 0.25 ppg sand slugs W/X-LINK and we also ran .25 ppg sand slug with Slickwater. Flushed well with &amp; 925 bbls. Ending rate 20 bpm @ 6196 psi. NPTD DUE TO PRESSURE.</p> <p>ENDING STEP TEST:</p> <p>63 bpm @ 9298 40 bpm @ 7741 20 bpm @ 6196</p> <p>Avg. rate: 68.5 bpm    Avg. psi: 7875 psi Max. rate: 80.3 bpm    Max. psi: 9330 psi End of job ISIP 4435    FG: 0.94</p> <p>FTR: 40960 LTR: 40960 TSIF: 688329</p>	2
WSI	SWI WAITING ON NEW GUNS PER ENGINEER.	15

**Report #: 19 Daily Operation: 10/7/2014 06:00 - 10/8/2014 06:00**

Job Category <b>ORIG COMPLETION</b>			Primary Job Type <b>OCM</b>		AFE Number <b>031463</b>
Days From Spud (days) <b>77</b>	Days on Location (days) <b>19</b>	End Depth (ftKB) <b>0.0</b>	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig <b>PIONEER PUMPING SERVICES, PPS #6</b>

Operations Summary  
Frac 9-10  
Perf 9-10

Remarks  
Day Shift Bobby Stevens - James Boyster - Justin Locklar  
Night Shift: Neal Montgomery - Ryan Winkler

PPS Downtime: 0.0 hrs. Cum. 9.25.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 57,385 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 57,385 BBL

TSIF: 1,357,326 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
WSI	SWI WAITING ON NEW GUNS PER ENGINEER.	1.5
WLHEAD	Greasing well head.	1
WSI	WSI Waiting on orders from Engineer.	5
PERF	RU Ark -La-Tex WL for Stage# 9 of 28. RIH & pump down Schlumberger CFP & (4) 3-3/8 perforating guns W/ 25 gram, 5 SPF. 60 degree phasing, 0.54 EHD. Position and set composite frac plug at 14849'. Perforate at intervals: 14772-14774, 14712-14714, 14652-14654,14592-14594. Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /8220psi, 300 ft/min, 1055 Line Ten.  TBP: 281 BBL FTR: 41241 BBL LTR:41241BBL	2
STIM	Frac Stage 9 of 27 Test stack to 9800 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 36 bbls 15% HCL, 37,500 LBS 30/50, 296,177 lbs 20/40 sand SIF 334075 & 8172 bbls of hybrid fluid linear Xlink down 5.5" 20#csg. Formation broke @ 5868 psi @ 50 bpm  Step Test 80 bpm @ 6371 psi 60 bpm @ 5476 psi 40 bpm @ 4628 psi 20 bpm @ 3872 psi Pad ISIP: 3402 psi. FG: 0.82. 5 min SIP: 3144 psi.  Acid on form @ 50 bpm 5868 psi Acid clear @ 62 bpm 6130psi  Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 76 *F. Pumped 3127 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with & 424 bbls. Ending rate 73 bpm @ 6085 psi. Placed 100% prop iin formation.  Avg. rate: 76 bpm Avg. psi: 7176 psi Max. rate: 81 bpm Max. psi: 8739 psi End of job ISIP 3761 FG: 0.87  FTR: 49413 LTR: 49413 TSIF: 1022404	2.5
WOZF	Wait on Frac Ops	2

Time Log Summary		
Operation	Com	Dur (hr)
PERF	RU Ark -La-Tex WL for Stage# 10 of 27. RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 14549'. Perforate at intervals:14352-14354, 14412-14414,14472-14474, 14532-14534, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4800psi, 297 ft/min, 990 Line Ten.  TBP: 274 BBL FTR: 49,687 BBL LTR:49,687BBL	2
WOZF	Wait on Frac Ops	4
STIM	Frac Stage 10 of 28 Test stack to 9800 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 36 bbls 15% HCL, 37,500 lbs 30/50 - 297,422 lbs 20/40 sand & 7,698 bbls of hybrid fluid linear Xlink down 5.5" 20#csg. Formation broke @ 4,535 psi @ 21 bpm  Step Test 80 bpm @ 6,130 psi 60 bpm @ 5,280 psi 40 bpm @ 4,606 psi 20 bpm @ 4,031 psi Pad ISIP: 3,521 psi. FG: 0.84. 5 min SIP: 3,252 psi.  Acid on form @ 35 bpm 5,285 psi Acid clear @ 60 bpm 5,615psi  Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 72 *F. Pumped 2,788 bbl pad.Ramped 30/50 sand from .25 ppg to 1.0 ppg, Ramped 20/40 sand from 1.5 ppg to 3 ppg. Flushed well with & 417 bbls. Ending rate 80 bpm @ 6,542 psi. Placed 100% prop iin formation.  Avg. rate: 80 bpm Avg. psi: 7,183 psi Max. rate: 80 bpm Max. psi: 7,812 psi End of job ISIP 3,813 FG: 0.87  FTR: 57,385 LTR: 57,385 TSIF: 1,357,326	2
PERF	RIH Stg 11 WL	2

**Report #: 20 Daily Operation: 10/8/2014 06:00 - 10/9/2014 06:00**

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 031463	
Days From Spud (days) 78	Days on Location (days) 20	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6	

Operations Summary  
Perf Stg 11/13  
Frac Stg 11/12

Remarks  
Night Shift Bobby Stevens - James Boyster - Justin Locklar  
Day Shift: Mike Drennan - Jimmy Lake - Fabian Trevino

PPS Downtime: 0.0 hrs. Cum. 9.25.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 74,041 BBL  
RT: 0 BBL  
CR: 0 BBL  
LTR: 74,041 BBL  
TSIF: 2,029,056 lbs.

Time Log Summary		
Operation	Com	Dur (hr)
PERF	RU Ark -La-Tex WL for Stage# 11 of 27. RIH & pump down Schlumberger CFP & (4) 3-3/8 perforating guns W/ Connex 25 gram charges, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 14,302'. Perforate at intervals:14287-14289, 14232-14234,14172-14174, 14112-14114, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /5100 psi, 300 ft/min, 990 Line Ten. TBP: 261 BBL  FTR: 57,646 BBL LTR: 57,646 BBL	2
WOZF	Wait on Frac Ops on 13H & 14H.	5.25
STIM	Frac Stage 11 of 28 Test stack to 9800 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 36 bbls 15% HCL, 37,787 lbs 30/50 - 298,294 lbs 20/40 sand & 8,182 bbls of hybrid fluid linear Xlink down 5.5" 20#csq. Formation broke @ 4186 psi @ 22 bpm  Step Test 80 bpm @ 6048 psi 60 bpm @ 5139 psi 40 bpm @ 4432 psi 20 bpm @ 3826 psi Pad ISIP: 3335 psi. FG: 0.81. 5 min SIP: 3268 psi.  Acid on form @ 37 bpm 4675 psi Acid clear @ 37 bpm 4331 psi  Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 75 *F. Pumped 3,193 bbl pad. Ramped 30/50 sand from .25 ppg to 1.0 ppg, Ramped 20/40 sand from 1.5 ppg to 3 ppg. Flushed well with & 416 bbls. Ending rate 80 bpm @ 5974 psi. Placed 100% prop iin formation.  Avg. rate: 80 bpm Avg. psi: 6485 psi Max. rate: 80 bpm Max. psi: 7425 psi End of job ISIP 3956 FG: 0.89  FTR: 65,832 bbls LTR: 65,832 bbls TSIF: 1,693,407	2
PERF	RU Ark -La-Tex WL for Stage# 12 of 27. RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram charges, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 14,071'. Perforate at intervals:14,052'-14,054', 13,992'-13,994',13,932'-13,934', 13,872'-13,874', Total of 32 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4900 psi, 300 ft/min, 990 Line Ten. TBP: 256 BBL  FTR: 66,084 BBL LTR: 66,084 BBL	2.25
WOZF	Wait on Frac Ops on 13H & 14H.	5.5
STIM	Frac Stage 12 of 28 Test stack to 9800 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 35 bbls 15% HCL, 335649 lbs 20/40 sand & 7707 bbls of hybrid fluid linear Xlink down 5.5" 20#csq. Formation broke @ 4247 psi @ 20 bpm  Step Test 80 bpm @ 6304 psi 60 bpm @ 5300 psi 40 bpm @ 4504 psi 20 bpm @ 3787 psi Pad ISIP: 3364 psi. FG: 0.82. 5 min SIP: 3168 psi.  Acid on form @ 42 bpm 5278 psi Acid clear @ 42 bpm 4584psi  Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 72 *F. Pumped 2786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with & 404 bbls. Ending rate 80 bpm @ 6200 psi. Placed 100% prop iin formation.  Avg. rate: 80 bpm Avg. psi: 7291 psi Max. rate: 80 bpm Max. psi: 7928 psi End of job ISIP 3868 FG: 0.88  FTR: 73796 LTR: 73796 TSIF: 2029056	2

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
PERF	RU Ark -La-Tex WL for Stage# 13 of 28. RIH & pump down Schlumberger CFP & (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 13829'. Perforate at intervals: 13812-13814, 13752-13754, 13692-13694, 13632-13634, 13572-13574, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4900psi, 300 ft/min, 1026 Line Ten.  TBP: 250 BBL FTR: 74041 BBL LTR:74041 BBL	2
WOZF	WAITING ON FRAC OPS	3

**Report #: 21 Daily Operation: 10/9/2014 06:00 - 10/10/2014 06:00**

Job Category <b>ORIG COMPLETION</b>		Primary Job Type <b>OCM</b>		AFE Number <b>031463</b>	
Days From Spud (days) 79	Days on Location (days) 21	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig <b>PIONEER PUMPING SERVICES, PPS #6</b>

Operations Summary  
Frac Stg 13/14  
Perf Stg 14/15

Remarks  
Night Shift Bobby Stevens - James Boyster - Justin Locklar  
Day Shift: Mike Drennan - Jimmy Lake - Fabian Trevino

PPS Downtime: 2.0 hrs. Cum. 11.25.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 90,009 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 90,099 BBL

TSIF: 2,700,698 lbs.

Time Log Summary		
Operation	Com	Dur (hr)
WOZF	Waiting on Frac Ops on 13H & 14H.	2.5
U_PEPXD	Down working on pumps and swapping out a pump. Pump cracked fluid end.	2
STIM	Frac Stage 13 of 28 Test stack to 9800 psi. Hold 1000 psi on backside. PPS frac'd per schedule w/ 36 bbls 15% HCL, 336,441 lbs 20/40 sand & 7,920 bbls of hybrid fluid linear Xlink down 5.5" 20#csg. Formation broke @ 5165 psi @ 31 bpm  Step Test 80 bpm @ 6971 psi 60 bpm @ 5559 psi 40 bpm @ 4601 psi 20 bpm @ 3903 psi Pad ISIP: 3633 psi. FG: 0.85. 5 min SIP: 3276 psi.  Acid on form @ 31 bpm @ 5095 psi Acid clear @ 31 bpm @ 5002 psi  Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 73 *F. Pumped 3,079 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with & 406 bbls. Ending rate 80 bpm @ 6180 psi. Placed 100% prop in formation.  Avg. rate: 80 bpm Avg. psi: 7253 psi Max. rate: 80 bpm Max. psi: 7420 psi End of job ISIP 3949 FG: 0.88  FTR: 81,961 bbls LTR: 81,961 bbls TSIF: 2,365,497	2

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Time Log Summary

Operation	Com	Dur (hr)
PERF	RU Ark -La-Tex WL for Stage# 14 of 28. RIH & pump down Schlumberger CFP & (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 13,529'. Perforate at intervals: 13,512'-13,514', 13,452'-13,454', 13,392'-13,394', 13,332'-13,334', 13,272'-13,274', Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm / 4900 psi, 300 ft/min, 1068 Line Ten. Used: 238 BBL  FTR: 82,199 BBL LTR: 82,199 BBL	2
WOZF	Waiting on Frac Ops on 13H & 14H.	7.5
STIM	Frac Stage 14 of 29 Test stack to 9655 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 35 bbls 15% HCL, 335201 lbs 20/40 sand & 7688 bbls of hybrid fluid linear Xlink down 5.5" 20#csq. Formation broke @ 4394 psi @ 23 bpm  Step Test 80 bpm @ 6040 psi 60 bpm @ 5269 psi 40 bpm @ 4537 psi 20 bpm @ 3825 psi Pad ISIP: 3453 psi. FG: 0.83. 5 min SIP: 2747 psi.  Acid on form @ 40 bpm 5224 psi Acid clear @ 40 bpm 4665psi  Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 72 *F. Pumped 2786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with & 395 bbls. Ending rate 80 bpm @ 5873 psi. Placed 100% prop iin formation.  Avg. rate: 79 bpm Avg. psi: 6837 psi Max. rate: 80 bpm Max. psi: 7388 psi End of job ISIP 4415 FG: 0.94  FTR: 89887 LTR: 89887 TSIF: 2700698	2.25
PERF	RU Ark -La-Tex WL for Stage# 15 of 29. RIH & pump down Schlumberger CFP & (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 13229'. Perforate at intervals: 13212-13214, 13152-13154, 13092-13094, 13032-13034, 12972-12974, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /5250psi, 300 ft/min, 988 Line Ten.  TBP: 212 BBL FTR: 90099 BBL LTR:90099BBL	2
WOZF	WAITING ON FRAC OPS	3.75

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Report #: 22 Daily Operation: 10/10/2014 06:00 - 10/11/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 031463
Days From Spud (days) 80	Days on Location (days) 22	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6

Operations Summary  
Frac Stg 15  
Perf Stg 16

Remarks  
Night Shift Bobby Stevens - James Boyster - Justin Locklar  
Day Shift: Mike Drennan - Jimmy Lake - Fabian Trevino

PPS Downtime: 4.75 hrs. Cum. 16.0 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 97,856 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 97,856 BBL

TSIF: 3,036,251 lbs.

### Time Log Summary

Operation	Com	Dur (hr)
WOZF	Waiting on Frac Ops on 13H & 14H.	0.5
U_PEPXD	Down working on blender. Waited on new oil filters. Blender oil pressure bouncing around.	4.75
STIM	<p>Frac Stage 15 of 29 Test stack to 9700 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 36 bbls 15% HCL, 335,553 lbs 20/40 sand &amp; 7,533 bbls of hybrid fluid line-Xlink down 5.5" 20#csg. Formation broke @ 4543 psi @ 30 bpm</p> <p>Step Test 80 bpm @ 6090 psi 60 bpm @ 5227 psi 40 bpm @ 4475 psi 20 bpm @ 3844 psi</p> <p>Pad ISIP: 3323 psi. FG: 0.81. 5 min SIP: 3037 psi.</p> <p>Acid on form @ 30 bpm 4557 psi Acid clear @ 80 bpm 6129 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 75 *F. Pumped 2,774 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 392 bbls. Ending rate 80 bpm @ 5890 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 78 bpm Avg. psi: 6607 psi Max. rate: 80 bpm Max. psi: 7490 psi End of job ISIP 3806 FG: 0.87</p> <p>FTR: 97,632 bbls LTR: 97,632 bbls TSIF: 3,036,251</p>	2
PERF	<p>RU Ark -La-Tex WL for Stage# 16 of 29. RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 12,929'. Perforate at intervals: 12,912-12,914, 12,852'-12,854', 12,792'-12,794', 12,732'-12,734', 12,672'-12,674', Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /5060 psi, 322 ft/min, 1068 Line Ten. TBP: 224 BBL</p> <p>FTR: 97,856 BBL LTR: 97,856 BBL</p>	2
WOZF	Waiting on Frac Ops on 13H & 14H.	13.75
STIM	FRACING STG 16 AT REPORT TIME	1

Report #: 23 Daily Operation: 10/11/2014 06:00 - 10/12/2014 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 031463
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Days From Spud (days) 81	Days on Location (days) 23	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6
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Operations Summary  
Frac Stg 16/18  
Perf Stg 17/18

Remarks  
Night Shift Bobby Stevens - James Boyster - Justin Locklar  
Day Shift: Mike Drennan - Jimmy Lake - Fabian Trevino

PPS Downtime: 1.75 hrs. Cum. 17.75 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 121002 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 121002 BBL

TSIF: 4042161 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 16 of 29 Test stack to 9665 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 25 bbls 15% HCL, 336,742 lbs 20/40 sand &amp; 7,683 bbls of hybrid fluid line-Xlink down 5.5" 20#csg. Formation broke @ 4644 psi @ 20 bpm</p> <p>Step Test 80 bpm @ 5781 psi 60 bpm @ 5149 psi 40 bpm @ 4495 psi 20 bpm @ 3957 psi</p> <p>Pad ISIP: 3523 psi. FG: 0.84. 5 min SIP: 3070 psi.</p> <p>Acid on form @ 39 bpm 5333 psi Acid clear @ 39 bpm 4595 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 68 °F. Pumped 2,786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 376 bbls. Ending rate 80 bpm @ 5804 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 79 bpm Avg. psi: 6651 psi Max. rate: 80 bpm Max. psi: 7214 psi End of job ISIP 3829 FG: 0.87</p> <p>FTR: 105,539 bbls LTR: 105,539 bbls TSIF: 3,372,993</p>	1
PERF	<p>RU Ark -La-Tex WL for Stage# 17 of 29. RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 12,629'. Perforate at intervals: 12,612'-12,614', 12,552'-12,554', 12,492'-12,494', 12,432'-12,434', 12,372'-12,374', Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm / 4900 psi, 340 ft/min, 981 Line Ten. TBP: 180 BBL</p> <p>FTR: 105,719 BBL LTR: 105,719 BBL</p>	2
WOZF	Waiting on Frac Ops on 13H & 14H.	4
U_PEPXD	Changing out packing on pumps.	1.75

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage 17 of 29 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 25 bbls 15% HCL, 334,157 lbs 20/40 sand &amp; 7,507 bbls of hybrid fluid line-Xlink down 5.5" 20#csg. Formation broke @ 5828 psi @ 31 bpm</p> <p>Step Test 80 bpm @ 6090 psi 60 bpm @ 5184 psi 40 bpm @ 4433 psi 20 bpm @ 3833 psi</p> <p>Pad ISIP: 3565 psi. FG: 0.84. 5 min SIP: 3185 psi.</p> <p>Acid on form @ 31 bpm 5751 psi Acid clear @ 80 bpm 5934 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 73 *F. Pumped 2,811 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 375 bbls. Ending rate 81 bpm @ 5803 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 80 bpm Avg. psi: 6908 psi Max. rate: 81 bpm Max. psi: 7250 psi End of job ISIP 3730 FG: 0.86</p> <p>FTR: 113,226 bbls LTR: 113,226 bbls TSIF: 3,707,150</p>	2
PERF	<p>RU Ark -La-Tex WL for Stage# 18 of 29. RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 12329'. Perforate at intervals: 12312-12314, 12252-12254, 12192-12194,12132-12134, 12072-12074, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4700psi, 300 ft/min, 920 Line Ten.</p> <p>TBP: 164 BBL FTR: 105883 BBL LTR:105883BBL</p>	2
WOZF	Waiting on Frac Ops	3.5
STIM	<p>Frac Stage 18 of 29 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 27 bbls 15% HCL, 335011 lbs 20/40 sand &amp; 7438 bbls of hybrid fluid linear Xlink down 5.5" 20#csg. Formation broke @ 4394 psi @ 20 bpm</p> <p>Step Test 80 bpm @ 5835 psi 60 bpm @ 5059 psi 40 bpm @ 4430 psi 20 bpm @ 3912 psi</p> <p>Pad ISIP: 3505 psi. FG: 0.84. 5 min SIP: 3234 psi.</p> <p>Acid on form @ 40 bpm 5185 psi Acid clear @ 40 bpm 4455psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 68 *F. Pumped 2786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with &amp; 368 bbls. Ending rate 79 bpm @ 5826 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 78 bpm Avg. psi: 6618 psi Max. rate: 80 bpm Max. psi: 7464 psi End of job ISIP 3726 FG: 0.86</p> <p>FTR: 120828 LTR: 120828 TSIF: 4042161</p>	2
PERF	<p>RU Ark -La-Tex WL for Stage# 19 of 29. RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 12031'. Perforate at intervals: 12012-12014, 11952-11954, 11892-11894,11832-11834, 11772-11774, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4960psi, 300 ft/min, 850 Line Ten.</p> <p>TBP: 174 BBL FTR: 121002 BBL LTR:121002BBL</p>	2
WOZF	WAITING ON FRAC OPS	2
STIM	Fracing Stage 19 at Report Time.	1.75

**Report #: 24 Daily Operation: 10/12/2014 06:00 - 10/13/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 031463
Days From Spud (days) 82	Days on Location (days) 24	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6

Operations Summary  
 Frac Stg 19/21  
 Perf Stg 20/22  
 Frac n' stage 22 @ report time

Remarks  
 Night Shift Bobby Stevens - James Boyster - Justin Locklar  
 Day Shift: Mike Drennan - Jimmy Lake - Fabian Trevino

PPS Downtime: 6.25 hrs. Cum. 24 hrs.  
 Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
 Select Downtime: 0 hrs. Cum. 0.0 hrs.  
 API Downtime: 0 hrs. Cum. 0 hrs.  
 RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
 Weather Downtime: 0.0 hr Total: 0 hours  
 Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 143639 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 143639 BBL

TSIF: 5050024 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
STIM	Frac Stage 19 of 29 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 28 bbls 15% HCL, 335,448 lbs 20/40 sand & 7,416 bbls of hybrid fluid linear Xlink down 5.5" 20#csg. Formation broke @ 4772 psi @ 20 bpm  Step Test 80 bpm @ 5943 psi 60 bpm @ 5195 psi 40 bpm @ 4531 psi 20 bpm @ 3869 psi Pad ISIP: 3441 psi. FG: 0.83. 5 min SIP: 3218 psi.  Acid on form @ 40 bpm 6373 psi Acid clear @ 80 bpm 5984 psi  Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 66 *F. Pumped 2786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with & 360 bbls. Ending rate 80 bpm @ 7276 psi. Placed 100% prop iin formation.  Avg. rate: 78 bpm      Avg. psi: 6300 psi Max. rate: 80 bpm      Max. psi: 7879 psi End of job ISIP 3761      FG: 0.87  FTR: 128,418 BBLS LTR: 128,418 BBLS TSIF: 4,377,609	0.5
PERF	RU Ark -La-Tex WL for Stage# 20 of 29. RIH & pump down Schlumberger CFP & (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 11,729". Perforate at intervals: 11712-11714, 11652-11654, 11592-11594, 11532-11534, 11472-11474, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4960psi, 330 ft/min, 848 Line Ten. TBP: 152 BBL  FTR: 128,570 BBL LTR: 128,570 BBL	2
WOZF	Waiting on Frac Ops on 13H & 14H.	1.5

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage 20 of 29 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 25 bbls 15% HCL, 335,751 lbs 20/40 sand &amp; 7491 bbls of hybrid fluid linear Xlink down 5.5" 20# csg. Formation broke @ 5817 psi @ 21 bpm</p> <p>Step Test 80 bpm @ 6323 psi 60 bpm @ 5462 psi 40 bpm @ 4706 psi 20 bpm @ 4049 psi</p> <p>Pad ISIP: 2975 psi. FG: 0.77. 5 min SIP: 2892 psi.</p> <p>Acid on form @ 21 bpm 5773 psi Acid clear @ 55 bpm 6246 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 70 *F. Pumped 2808 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with &amp; 353 bbls. Ending rate 80 bpm @ 6046 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 80 bpm Avg. psi: 6868 psi Max. rate: 80 bpm Max. psi: 7761 psi End of job ISIP 3280 FG: 0.81</p> <p>FTR: 136,061 BBLs LTR: 136,061 BBLs TSIF: 4,713,360 LBS</p> <p>Note: Had problem w/ gel system through out Stage.</p>	2
PERF	<p>RU Ark -La-Tex WL for Stage# 21 of 29. RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 11,429". Perforate at intervals: 11412-11414, 11352-11354, 11292-11294, 11232-11234, 11172-11174, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm / 4840 psi, 330 ft/min, 1010 Line Ten. TBP: 123 BBL</p> <p>FTR: 136,184 BBL LTR: 136,184 BBL</p>	2.25
WOZF	Waiting on Frac Ops on 13H & 14H.	2.75
STIM	<p>Frac Stage 21 of 29 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 25 bbls 15% HCL, 336415 lbs 20/40 sand &amp; 7341 bbls of hybrid fluid linear Xlink down 5.5" 20#csg. Formation broke @ 5313 psi @ 20 bpm</p> <p>Step Test 80 bpm @ 6615 psi 60 bpm @ 5655 psi 40 bpm @ 4745 psi 20 bpm @ 4056 psi</p> <p>Pad ISIP: 3441 psi. FG: 0.83. 5 min SIP: 3218 psi.</p> <p>Acid on form @ 20 bpm 5152 psi Acid clear @ 50 bpm 5527psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 75 *F. Pumped 2699 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with &amp; 348 bbls. Ending rate 80 bpm @ 5707 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 79 bpm Avg. psi: 6727 psi Max. rate: 80 bpm Max. psi: 7677 psi End of job ISIP 4140 FG: 0.91</p> <p>FTR: 143525 LTR: 143525 TSIF: 5050024</p>	2
PERF	<p>RU Ark -La-Tex WL for Stage# 22 of 29. RIH &amp; pump down Schlumberger CFP &amp; (4) 3-3/8 perforating guns W/ 25 gram Connex, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 11129". Perforate at intervals: 11112-11114, 11032-11034, 10952-10954, 10872-10874. Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4700psi, 300 ft/min, 864 Line Ten.</p> <p>TBP: 114 BBL FTR: 143639 BBL LTR: 143639 BBL</p>	2
WOZF	Waiting on Frac Ops on 13H & 14H.	2
U_PEPXD	Down due to broken starter on engine on blender	5.25
STIM	Frac n' stage 22 @ report time	1.75

# PIONEER

NATURAL RESOURCES

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Report #: 25 Daily Operation: 10/13/2014 06:00 - 10/14/2014 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 031463
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Days From Spud (days) 83	Days on Location (days) 25	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6
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Operations Summary  
 Frac Stg 22-25  
 Perf Stg 23-25  
 RIH to plug/perf stg 26 @ report time

Remarks  
 Night Shift Bobby Stevens - James Boyster - Justin Locklar  
 Day Shift: Mike Drennan - Jimmy Lake - Fabian Trevino

PPS Downtime: 0 hrs. Cum. 24 hrs.  
 Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
 Select Downtime: 0 hrs. Cum. 0.0 hrs.  
 API Downtime: 0 hrs. Cum. 0 hrs.  
 RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
 Weather Downtime: 0.0 hr Total: 0 hours  
 Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 170,756 BBL

RT: 0 BBL

CR: 0 BBL

LTR: 170,756 BBL

TSIF: 6,065,322 lbs.

### Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 22 of 29 Test stack to 9530 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 25 bbls 15% HCL, 6,262 lbs 20/40 sand &amp; 4,565 bbls of hybrid fluid linear Xlink down 5.5" 20#csg.</p> <p>Formation broke @ 6193 psi @ 20 bpm            Step Test 80 bpm @ 8300 psi            60 bpm @ 7400 psi            40 bpm @ 6240 psi            20 bpm @ 4676 psi            Pad ISIP: 3563 psi. FG: 0.84. 5 min SIP: 3206 psi.</p> <p>Acid on form @ 45 bpm 7123 psi            Acid clear @ 80 bpm 6696 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 67 *F. Pumped 2786 bbl pad. Staged 20/40 sand to 0.5 ppg. Flushed well with &amp; 1106 bbls. Ending rate 61 bpm @ 8617 psi. Placed less than 2% prop iin formation.</p> <p>Avg. rate: 53 bpm Avg. psi: 8354 psi            Max. rate: 79 bpm Max. psi: 9364 psi</p> <p>End of job ISIP 3879 FG: 0.88</p> <p>FTR: 148,204            LTR: 148,204            TSIF: 5,056,286</p> <p>Note: Cut job short per engineer to to pressure issues.</p>	0.25
PERF	<p>RU Ark -La-Tex WL for Stage# 23 of 29. RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 10,829". Perforate at intervals: 10812-10814, 10752-10754, 10692-10694, 10632-10634, 10572-10574, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm / 6500 psi, 330 ft/min, 990 Line Ten. TBP: 128 BBL</p> <p>FTR: 148,332 BBL            LTR: 148,332 BBL</p>	2
WOZF	Waiting on Frac Ops on 13H.	2.75

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage 23 of 29 Test stack to 9550 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 25 bbls 15% HCL, 337,280 lbs 20/40 sand &amp; 7,374 bbls of hybrid fluid linear Xlink down 5.5" 20#csq. Formation broke @ 4236 psi @ 30 bpm</p> <p>Step Test 80 bpm @ 5441 psi 60 bpm @ 4685 psi 40 bpm @ 4083 psi 20 bpm @ 3619 psi</p> <p>Pad ISIP: 3442 psi. FG: 0.83. 5 min SIP: 2999 psi.</p> <p>Acid on form @ 30 bpm 4224 psi Acid clear @ 30 bpm 4187 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 69 °F. Pumped 2,734 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with &amp; 335 bbls. Ending rate 80 bpm @ 5554 psi. Placed 100% prop in formation.</p> <p>Avg. rate: 80 bpm      Avg. psi: 6076 psi Max. rate: 81 bpm      Max. psi: 6492 psi End of job ISIP 3608      FG: 0.85</p> <p>FTR:155,706 LTR:155,706 TSIF: 5,393,566</p>	2
PERF	<p>RU Ark -La-Tex WL for Stage# 24 of 29. RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 10,529". Perforate at intervals: 10512-10514, 10452-10454, 10392-10394,10332-10334, 10272-10274, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm / 4900 psi, 335 ft/min, 981 Line Ten. TBP: 102 BBL</p> <p>FTR: 155,808 BBL LTR: 155,808 BBL</p>	2
WOZF	Waiting on Frac Ops on 14H.	1.5
U_PEPXD	Performing maintenance and checking oils on frac equipment.	2.5
STIM	<p>Frac Stage 24 of 29 Test stack to 9632 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 25 bbls 15% HCL, 336363 lbs 20/40 sand &amp; 7499 bbls of hybrid fluid down 5.5" #20# csq. Formation broke @ 3825 psi @ 20 bpm</p> <p>Step Test 80 bpm @ 5161 psi 60 bpm 4582 psi 40 bpm @ 4040 psi 20 bpm @ 3502 psi</p> <p>Pad ISIP: 3167 psi. FG: 0.8#. 5 min SIP: 2692 psi. Acid on form @ 42 bpm 4423 psi Acid clear @ 42 bpm 4098psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 69 °F. Pumped 2786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 328 bbls. Ending rate 80 bpm @ 4678 psi. Placed 100% prop in formation.</p> <p>Avg. rate: 79 bpm      Avg. psi: 5735 psi Max. rate: 80 bpm      Max. psi: 6190 psi End of job ISIP 3569      FG: 0.84</p> <p>FTR: 163307 LTR: 163307 TSIF: 5729929</p>	2
PERF	<p>RU Ark-La-Tex WL for Stage# 25of 29 . RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 10229. Perforate at intervals: 10212-10214, 10152-10154, 10092-10094,10032-10034, 9972-9974, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4460psi, 300 ft/min, 856 Line Ten.</p> <p>TBP: 71 BBL FTR: 163378 BBL LTR: 163378 BBL</p>	2
WOZF	WAITING ON FRAC OPS	3.75

Time Log Summary						
Operation	Com					Dur (hr)
STIM	Frac Stage 25 of 29 Test stack to 9590 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 30 bbls 15% HCL, 335393 lbs 20/40 sand & 7378 bbls of hybrid fluid down 5.5" #20# csg. Formation broke @ 4182 psi @ 20 bpm  Step Test 80 bpm @ 5680 psi 60 bpm 4900 psi 40 bpm @ 4340 psi 20 bpm @ 3718 psi Pad ISIP: 3253 psi. FG: 0.80. 5 min SIP: 2810 psi. Acid on form @ 30 bpm 4570 psi Acid clear @ 60 bpm 5588psi  Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 64 *F. Pumped 2786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 319 bbls. Ending rate 80 bpm @ 5430 psi. Placed 100% prop in formation. Avg. rate: 79 bpm      Avg. psi: 5924 psi Max. rate: 80 bpm      Max. psi: 6405 psi End of job ISIP 3876      FG: 0.88  FTR: 170756 LTR: 170756 TSIF: 6065322					2
PERF	RIH to plug/perf stage 26 @ report time					1.25
<b>Report #: 26 Daily Operation: 10/14/2014 06:00 - 10/15/2014 06:00</b>						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 031463	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6	
84	26	0.0				
Operations Summary						
Frac Stg 26						
Perf Stg 27						
Frac Stg 27						
Perf Stg 28						
Frac Stg 28						
Perf Stg 29						
Frac Stg 29						
Remarks						
Night Shift Bobby Stevens - James Boyster - Justin Locklar						
Day Shift: Mike Drennan - Jimmy Lake - Fabian Trevino						
PPS Downtime: 3 hrs. Cum. 27 hrs.						
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.						
Select Downtime: 0 hrs. Cum. 0.0 hrs.						
API Downtime: 0 hrs. Cum. 0 hrs.						
RSI PD Downtime: 0 hrs. Cum. 0 hrs.						
Weather Downtime: 0.0 hr Total: 0 hours						
Gibson Downtime: 0.0 hr Total: 0 hours						
FTR: 200,792 BBL						
RT: 0 BBL						
CR: 0 BBL						
LTR: 200,792 BBL						
TSIF: 7,456,579 lbs.						
Time Log Summary						
Operation	Com					Dur (hr)
PERF	RU Ark-La-Tex WL for Stage# 26 of 29 . RIH & pump down Schlumberger CFP & (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 9,927'. Perforate at intervals: 9912-9914, 9852-9854, 9792-9794, 9732-9734, 9672-9674, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4620 psi, 330 ft/min, 846 Line Ten. TBP: 57 BBL  FTR: 170,813 BBL LTR: 170,813 BBL					0.5
WOZF	Waiting on Frac Ops on 14H.					2.25

### Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 26 of 29 Test stack to 9955 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 32 bbls 15% HCL, 336,504 lbs 20/40 sand &amp; 7,323 bbls of hybrid fluid down 5.5" #20# csg. Formation broke @ 4860 psi @ 30 bpm</p> <p>Step Test    80 bpm @ 5566 psi               60 bpm @ 4885 psi               40 bpm @ 4283 psi               20 bpm @ 3773 psi</p> <p>Pad ISIP: 3316 psi.    FG: 0.81.    5 min SIP: 2901 psi. Acid on form @    30 bpm 4763 psi Acid clear @    50 bpm 5118 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 64 *F. Pumped 2,672 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 315 bbls. Ending rate 78 bpm @ 5307 psi. Placed 100% prop in formation. Avg. rate: 80 bpm            Avg. psi:6012 psi Max. rate: 80 bpm            Max. psi: 6444 psi End of job ISIP 4016            FG: 0.89</p> <p>FTR: 178,136 LTR: 178,136 TSIF: 6,401,826</p>	2
PERF	<p>RU Ark-La-Tex WL for Stage# 27 of 29 . RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 9,627'. Perforate at intervals: 9612-9614, 9552-9554, 9492-9494, 9432-9434, 9372-9374, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm / 4570 psi, 335 ft/min, 975 Line Ten. TBP: 59 BBL</p> <p>FTR: 178,195 BBL LTR: 178,195 BBL</p>	2
WOZF	Waiting on Frac Ops on 13H.	2.25
STIM	<p>Frac Stage 27 of 29 Test stack to 9670 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 29 bbls 15% HCL, 336,334 lbs 20/40 sand &amp; 7,282 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4703 psi @ 30 bpm</p> <p>Step Test    80 bpm @ 5446 psi               60 bpm @ 4751 psi               40 bpm @ 4179 psi               20 bpm @ 3710 psi</p> <p>Pad ISIP: 3328 psi.    FG: 0.81.    5 min SIP: 2934 psi. Acid on form @    30 bpm 4600 psi Acid clear @    50 bpm 5071 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 72 *F. Pumped 2,652 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 308 bbls. Ending rate 80 bpm @ 5482 psi. Placed 100% prop in formation. Avg. rate: 80 bpm            Avg. psi: 6055 psi Max. rate: 80 bpm            Max. psi:6600 psi End of job ISIP 3653            FG: 0.85</p> <p>FTR: 185,477 LTR: 185,477 TSIF: 6,738,160</p>	2
PERF	<p>RU Ark-La-Tex WL for Stage# 28 of 29 . RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 9329. Perforate at intervals: 9312-9314, 9252-9254, 9192-9194, 9132-9134, 9072-9074, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 15 bpm /4000psi, 300 ft/min, 790 Line Ten.</p> <p>TBP: 38 BBL FTR: 185515 BBL LTR: 185515 BBL</p>	1.5
WOZF	Waiting on Frac Ops on 13H.	2.5

**Time Log Summary**

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 28 of 29 Test stack to 9800 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 17 bbls 15% HCL, 345469 lbs 20/40 sand &amp; 7527 bbls of hybrid fluid down 5.5" #20# csg.</p> <p>Formation broke @ 5992 psi @ 20 bpm</p> <p>Step Test    80 bpm @ 5895 psi               60 bpm @ 5148 psi               40 bpm @ 4523 psi               20 bpm @ 3927 psi</p> <p>Pad ISIP: 3502 psi.    FG: 0.86#.    5 min SIP: 3009 psi. Acid on form @ 50 bpm 5816 psi Acid clear @ 60 bpm 6086psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 10 cp. @ 66 *F. Pumped 2786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 301 bbls. Ending rate 80 bpm @ 5433 psi. Placed 100% prop in formation.</p> <p>Avg. rate: 79 bpm            Avg. psi: 6148 psi Max. rate: 80 bpm            Max. psi: 7322 psi End of job ISIP 3737            FG: 0.86</p> <p>FTR: 193042 LTR: 193042 TSIF: 7083629</p>	2.25
PERF	<p>RU Ark-La-Tex WL for Stage# 29of 29 . RIH &amp; pump down Schlumberger CFP &amp; (5) 3-1/8 perforating guns W/ 21.5 gram, 4 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 9029. Perforate at intervals: 9012-9014, 8952-8954, 8892-8894,8832-8834, 8772-8774, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 9 bpm /4700psi, 300 ft/min, 1010 Line Ten.</p> <p>TBP: 20 BBL FTR: 193062 BBL LTR: 193062 BBL</p>	1.75
U_PEPXD	Down time due to PPS being out of gel. Waiting on transport to arrive	3
STIM	<p>Frac Stage 29 of 29 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 50 bbls 15% HCL, 372,950 lbs 20/40 sand &amp; 7730 bbls of hybrid fluid down 5.5" 17#csg.</p> <p>Formation broke @ 5377 psi @ 20 bpm</p> <p>Step Test 80 bpm @ 5650 psi               60 bpm @ 4990 psi               40 bpm @ 4450 psi               20 bpm @ 3913 psi</p> <p>Pad ISIP: 3461 psi.    FG: 0.83#.    5 min SIP: 3218 psi.</p> <p>Acid on form @ 30 bpm 5700 psi Acid clear @ 70 bpm 5400psi</p> <p>Increased rate to 80 bpm. Started stage w/ 15# gel equivalent loading, 9 cp. @ 62 *F. Pumped 2786 bbl pad. Ramped 20/40 sand from 0.5 ppg to 3 ppg. Flushed well with 259 bbls. Ending rate 80 bpm @ 5760 psi. Placed 100% prop in formation.</p> <p>Avg. rate: 79.6 bpm            Avg. psi: 6049 psi Max. rate: 80 bpm            Max. psi: 6543 psi End of job ISIP 3961            FG: 0.9</p> <p>FTR: 200,792 bbls LTR: 200,792 bbls TSIF: 7,456,579 lbs</p>	2

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

**Report #: 27 Daily Operation: 10/15/2014 06:00 - 10/16/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 031463
Days From Spud (days) 85	Days on Location (days) 27	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, PPS #6

Operations Summary  
Set kill plug @ 8720'.  
Rdmol PPS frac equipment, Ark-La-Tex wireline & all supprt equipment.

Remarks  
Day Shift: Eric Wampler, Chad Hardin, Grant Moer  
Night Shift: Mike Drennan - Jimmy Lake - Fabian Trevino

PPS Downtime: 0 hrs. Cum. 27 hrs.  
Ark La Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.  
Select Downtime: 0 hrs. Cum. 0.0 hrs.  
API Downtime: 0 hrs. Cum. 0 hrs.  
RSI PD Downtime: 0 hrs. Cum. 0 hrs.  
Weather Downtime: 0.0 hr Total: 0 hours  
Gibson Downtime: 0.0 hr Total: 0 hours

FTR: 200,792 BBL

RT: 0 BBL

CR: 0 BBL

LTR:200,792 BBL

TSIF:7,456,579 lbs.

**Time Log Summary**

Operation	Com	Dur (hr)
PERF	RU Ark-La-Tex WL to set Kill plug. RIH & Run Schlumberger CFP-Kill Plug. Position and set composite frac plug at 8720. POOH. Stand wireline back. 375 ft/min, 580 Line Ten. Bled well down to 0 psi  TBP: 0 BBL FTR: 200,792 bbls LTR: 200,792 bbls	1.5
RURD	Nd upper frac valves. Rdmol PPS frac equipment and all support equipment.  Continue moving equipment off loc.  WSI. Waiting on drill out ops.	22.5

**Report #: 28 Daily Operation: 10/16/2014 06:00 - 10/17/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 031463
Days From Spud (days) 86	Days on Location (days) 28	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig Red Zone Coiltubing, Red Zone Coil Tubing

Operations Summary  
Well SI waiting on drill out operations.

Remarks  
Day Shift: Eric Wampler, Chad Hardin, Grant Moer  
Night Shift: Mike Drennan - Jimmy Lake - Fabian Trevino

FTR: 200,792 BBL

RT: 0 BBL

CR: 0 BBL

LTR:200,792 BBL

TSIF:7,456,579 lbs.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Time Log Summary

Operation	Com	Dur (hr)
SDP	Well SI waiting on drill out operations.	24

Report #: 29 Daily Operation: 10/17/2014 06:00 - 10/18/2014 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 031463
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Days From Spud (days) 87	Days on Location (days) 29	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig Red Zone Coiltubing, Red Zone Coil Tubing
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Operations Summary  
Well SI waiting on drill out operations on 13H.

Remarks  
Day Shift: Eric Wampler, Chad Hardin, Grant Moer  
Night Shift: Mike Drennan - Jimmy Lake

FTR: 200,792 BBL

RT: 0 BBL

CR: 0 BBL

LTR:200,792 BBL

TSIF:7,456,579 lbs.

### Time Log Summary

Operation	Com	Dur (hr)
SDP	Well SI waiting on drill out operations.	24

Report #: 30 Daily Operation: 10/18/2014 06:00 - 10/19/2014 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 031463
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Days From Spud (days) 88	Days on Location (days) 30	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig Red Zone Coiltubing, Red Zone Coil Tubing
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Operations Summary  
Well SI waiting on drill out operations on 13H.

Remarks  
Day Shift: Eric Wampler, Chad Hardin, Grant Moer  
Night Shift: Mike Drennan - Jimmy Lake-Fabian Trevino

FTR: 200,792 BBL

RT: 0 BBL

CR: 0 BBL

LTR:200,792 BBL

TSIF:7,456,579 lbs.

### Time Log Summary

Operation	Com	Dur (hr)
SDP	Well SI waiting on drill out operations.	24



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
MILL_CT	Short Trip to Vertical. Circulated wellbore clean. RIH To SLB CFP #18.	1.5
MILL_CT	Tag SLB CFP #18 @ 11,103' CT depth. Pumping 3.5 bpm at 3000 psi, returning 3.5 bpm at 820 psi. DO time 9 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #17 @ 11,407' CT depth. Pumping 3.5 bpm at 3800 psi, returning 3.5 bpm at 830 psi. DO time 16 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #16 @ 11,705' CT depth. Pumping 3.5 bpm at 3450 psi, returning 3.5 bpm at 830 psi. DO time 16 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #15 @ 12,007' CT depth. Pumping 3.5 bpm at 3820 psi, returning 3.5 bpm at 800 psi. DO time 16 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #14 @ 12,306' CT depth. Pumping 3.5 bpm at 3200 psi, returning 3.5 bpm at 824 psi. DO time 16 min. Send 5 bbl 90 visc sweep	2.5
MILL_CT	Tag SLB CFP #13 @ 12,603' CT depth, then Short Trip to Vertical. Circulated wellbore clean. RIH To SLB CFP #13 @ 12,603'.	3
MILL_CT	Tag SLB CFP #13 @ 12,603' CT depth. Pumping 3.5 bpm at 3200 psi, returning 3.5 bpm at 800 psi. DO time 17 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #12 @ 12,904' CT depth. Pumping 3.5 bpm at 3000 psi, returning 3.5 bpm at 750 psi. DO time 26 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #11 @ 13,207' CT depth. Pumping 3.5 bpm at 2900 psi, returning 3.5 bpm at 800 psi. DO time 23 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #10 @ 13,508' CT depth. Pumping 3.5 bpm at 2900 psi, returning 3.5 bpm at 800 psi. DO time 26 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #9 @ 13,807' CT depth pumped 10 bbl sweep. Start short trip.	4.5

<b>Report #: 32 Daily Operation: 10/20/2014 06:00 - 10/21/2014 06:00</b>		
Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	031463

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
90	32	0.0			Redzone Coil tubing, #519

Operations Summary  
 Drilled out SLB CFPS #9 Through #1 , Circulating sweeps and making short trips as needed.  
 Circulated Well clean.  
 Pooh w/ coil & Bha.

Remarks  
 Day Shift: Eric Wampler, Chad Hardin, Grant Moer  
 Night Shift: Mike Drennan - Jimmy Lake-Fabian Trevino

Weather Downtime: 0.0 hr Total: 0 hours  
 Red Zone Downtime: 0 hrs  
 Voyager Downtime: 0 hrs  
 Express Downtime: 0 hrs  
 Emerald Surf Downtime: 0 hrs  
 Baker Downtime: 0 hrs.

Pumped 1,346 bbls to disposal.  
 Sprint roll off #RT 250353 in use.

FTR: 200,792 BBL

RT: 2,219 BBL

CR: 2,955 BBL

LTR: 197,837 BBL

TSIF:7,456,579 lbs.

Time Log Summary		
Operation	Com	Dur (hr)
MILL_CT	Short Trip to Vertical. Circulated wellbore clean. RIH Tag SLB CFP #9 @ 13,799' CT depth. Pumping 3.5 bpm at 3400 psi, returning 3.5 bpm at 790 psi. DO time 14 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #8 @ 14,040' CT depth. Pumping 3.5 bpm at 3400 psi, returning 3.5 bpm at 860 psi. DO time 15 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #7 @ 14,271' CT depth. Pumping 3.5 bpm at 3400 psi, returning 3.5 bpm at 1000 psi. DO time 19 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #6 @ 14,526' CT depth pumped 10 bbl sweep. Start short trip.	6
MILL_CT	Short Trip to Vertical. Circulated wellbore clean. RIH. Tag/Drill SLB CP #6 @ 14,526' CT depth. Pumping 3.5 bpm at 3300 psi, returning 3.5 bpm at 860 psi. DO time 10 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #5 @ 14,824' CT depth. Pumping 3.5 bpm at 3100 psi, returning 3.5 bpm at 920 psi. DO time 18 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #4 @ 15,200' CT depth did not tag plug, Continued Wash down to 15,375' without tagging plug. Send 10 bbl 90 visc sweep & start short trip.	4
MILL_CT	Short Trip to Vertical. Circulated wellbore clean. RIH To SLB CFP #3.	4
MILL_CT	RIH. Tag/Drill SLB CP #3 @ 15,421' CT depth. Pumping 3.5 bpm at 3150 psi, returning 3.5 bpm at 830 psi. DO time 31 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #2 @ 16,019' CT depth. Pumping 3.5 bpm at 3050 psi, returning 3.5 bpm at 800 psi. DO time 28 min. Send 5 bbl 90 visc sweep. Wash down Tag/Drill SLB CFP #1 @ 16,319' CT depth. Pumping 3.5 bpm at 3230 psi, returning 3.5 bpm at 875 psi. DO time 25 min. Continued to wash down to 16,948' CT depth. Top pf toe sleeve. Send 10 bbl 90 visc sweep 10 bbl spacer & 10 bbl 90 visc sweep. Let sweeps come around and get ahead. Start pooh.	4

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Time Log Summary		
Operation	Com	Dur (hr)
MILL_CT	Pooh w/ coil & BHA.	6

**Report #: 33 Daily Operation: 10/21/2014 06:00 - 10/22/2014 06:00**

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 031463
Days From Spud (days) 91	Days on Location (days) 33	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig Mason Well Services , # 301

Operations Summary  
RDMO Red Zone CTU and drill out support equipmet.  
MIRU API wireline unit.  
Made GR & JB run.

Remarks  
Day Shift: Eric Wampler, Chad Hardin, Grant Moer  
Night Shift: Mike Drennan - Jimmy Lake-Fabian Trevino

Weather Downtime: 0.0 hr Total: 0 hours  
Red Zone Downtime: 0 hrs  
Voyager Downtime: 0 hrs  
Express Downtime: 0 hrs  
Emerald Surf Downtime: 0 hrs  
Baker Downtime: 0 hrs.

Pumped 1,346 bbls to disposal.

Sprint roll off #RT 250353 in use.

FTR: 200,792 BBL

RT: 2,219 BBL

CR: 2,955 BBL

LTR: 197,837 BBL

TSIF:7,456,579 lbs.

Time Log Summary		
Operation	Com	Dur (hr)
RURD	RDMO Red Zone CTU and drill out support equipment.	2
SDP	WSI waiting to set production packer.	4
RURD	MIRU API wireline unit.	2
WL	RIH w/ GR & JB to	2.5
WSI	WSI/ Waiting on heavy water	4
WLPAK	MIRU kill Truck Displays 200 of heavy water	3
RURD	MIRU API wireline unit.	3.5
PERF	RIH W/ packer @ 8,400' @ Report time.	3

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Report #: 34 Daily Operation: 10/22/2014 06:00 - 10/23/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 031463		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig Mason Well Services , # 301			
92	34	0.0						

Operations Summary  
MIRU Mason Rig # 301 and all support equipment

Remarks  
Day Shift: Marcus Lamberson, Ricky Russell, Fernando Trevino  
Night Shift: Eric Wampler, Chad Hardin, Grant Moer  
Weather Downtime: 0.0 hr Total: 0 hours  
Red Zone Downtime: 0 hrs  
Voyager Downtime: 0 hrs  
Express Downtime: 0 hrs  
Emerald Surf Downtime: 0 hrs  
Baker Downtime: 0 hrs.  
Mason rig # 301: 0 hrs

Pumped 1,346 bbls to disposal.

Sprint roll off #RT 250353 in use.

FTR: 200,792 BBL

RT: 2,219 BBL

CR: 2,955 BBL

LTR: 197,837 BBL

TSIF:7,456,579 lbs.

### Time Log Summary

Operation	Com	Dur (hr)
SAFETY	Safety meeting with all crews	0.5
RURD	Unload production pipe wait on rig equipment	1
SAFETY	Safety meeting with rig crew over rig up procedures and hazards on location	0.5
RURD	MIRU Mason 301. Install hanger with tiw valve and pull frac stack	3
RURD	Unflange B section replacu flange ring rotate and flange up and retest	2
RURD	Miru vision pump spott, bops, pipe racks and and tally tubing	3
SDP	Well SI waiting to run prod tbg & ESP equipment.	14

### WELL DETAILS

Well Name UNIVERSITY 3-14 12H	API/UWI 42-461-39360-0000	Operator PIONEER NATURAL RESRC USA, INC
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### Wellbore Hole Size

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	End Date
Conductor	30	28.5	148.5	4/14/2014	4/14/2014
Surface	17 1/2	148.5	1,105.0	7/23/2014	7/23/2014
Intermediate	12 1/4	1,105.0	8,029.0	7/26/2014	8/1/2014
Production	8 1/2	8,029.0	17,071.0	8/9/2014	8/10/2014

### Conductor Casing

Run Date	Set Depth (ftKB)	Centralizers						
	120.0							
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	20	19.124	94.00	J-55	120.00	1	0.0	120.0

Run Date	Set Depth (ftKB)	Centralizers
4/14/2014	148.5	None

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	20	19.124	94.00	J-55	120.00	3	28.5	148.5

### Surface Casing

Set Depth (ftKB)	Run Date	Centralizers						
1,100.0								
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	13 3/8	12.715	48.00	J-55	1,075.00	27	25.0	1,100.0

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Surface Casing

Set Depth (ftKB)	Run Date	Centralizers						
1,105.0	7/24/2014	7 and cement basket						
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	13 3/8	12.615	54.50	J-55	0.00	0	28.5	28.5
Cut off	13 3/8	12.615			7.51	1	28.5	36.0
Casing Joints	13 3/8	12.615	54.50	J-55	1,025.81	25	36.0	1,061.8
Float Collar	13 3/8	12.615	54.50	J-55	1.45	1	1,061.8	1,063.2
Casing Joints	13 3/8	12.615	54.50	J-55	40.89	1	1,063.2	1,104.1
Guide Shoe	13 3/8	12.615	54.50	J-55	0.88	1	1,104.1	1,105.0

### Surface Casing Cement

Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)
Casing	Surface, 1,105.0ftKB	7/24/2014	7/24/2014	Crest	28.5	1,105.0
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
Class C Poz	415	1.91	12.80			
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
PREMIUM PLUS	345	1.75	13.50			
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
Water	166		8.40			
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
PREMIUM PLUS	92	1.75	16.40			

### Intermediate Casing

Set Depth (ftKB)	Run Date	Centralizers						
8,019.0	8/3/2014	38						
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Landing Joint	9 5/8	8.755	43.50	L-80	0.00	0	28.5	28.5
Casing Hanger	9 5/8	8.755	43.50	L-80	3.12	1	28.5	31.6
Pup Joint	9 5/8	8.755	43.50	L-80	9.53	1	31.6	41.1
Casing Joints	9 5/8	8.755	43.50	L-80	6,962.63	153	41.1	7,003.8
Casing Joints	9 5/8	8.755	43.50	L-80	918.87	20	7,003.8	7,922.6
Float Collar	9 5/8	8.755	43.50	L-80	1.54	1	7,922.6	7,924.2
Casing Joints	9 5/8	8.755	43.50	L-80	93.20	2	7,924.2	8,017.4
Float Shoe	9 5/8	8.755	43.50	L-80	1.64	1	8,017.4	8,019.0
Set Depth (ftKB)	Run Date	Centralizers						
8,300.0								
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	9 5/8	8.835	40.00	L-80	8,275.00	207	25.0	8,300.0

### Intermediate Casing Cement

Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)
Casing	Intermediate, 8,019.0ftKB	8/3/2014	8/3/2014	SCHLUMBERGER	1,105.0	8,019.0
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
LITECRETE	624	1.98	9.70			
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
Class H	193	1.07	16.40			

### Production Casing

Set Depth (ftKB)	Run Date	Centralizers						
17,052.0	8/10/2014	30						
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Landing Joint					0.00	0	28.3	28.3
Casing Hanger					3.00	1	28.3	31.3
Casing Joints	5 1/2		20.00	P-110	7,894.37	188	31.3	7,925.7
Marker Joint	5 1/2				10.44	1	7,925.7	7,936.1
Casing Joints	5 1/2		20.00	P-110	207.46	5	7,936.1	8,143.6
Marker Joint	5 1/2				10.05	1	8,143.6	8,153.6
Casing Joints	5 1/2		20.00	P-110	8,788.67	210	8,153.6	16,942.3
Pup Joint	5 1/2		20.00	P-110	12.11	1	16,942.3	16,954.4
Toe Sleeve	5 1/2		20.00	P-110	5.62	1	16,954.4	16,960.0
Pup Joint	5 1/2		20.00	P-110	6.13	1	16,960.0	16,966.2
Float Collar	5 1/2		20.00	P-110	1.79	1	16,966.2	16,968.0
Casing Joints	5 1/2		20.00	P-110	82.52	2	16,968.0	17,050.5
Float Shoe	5 1/2		20.00	P-110	1.53	1	17,050.5	17,052.0
Set Depth (ftKB)	Run Date	Centralizers						
17,300.0								

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	5 1/2	4.778	20.00	P-110	17,275.00	432	25.0	17,300.0

### Production Casing Cement

Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)
Casing	Production, 17,052.0ftKB	8/10/2014	8/11/2014	SCHLUMBERGER	1,500.0	17,071.0

Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)
Class TXI LITEWEIGHT	502	2.87	11.00
Class TXI LITEWEIGHT	1,566	1.70	12.50
Class BAKER LIGHT			

### Cement Squeeze

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

### Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
8,772.0	8,774.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 5
8,832.0	8,834.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 4
8,892.0	8,894.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 3
8,952.0	8,954.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 2
9,012.0	9,014.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 1
9,072.0	9,074.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 5
9,132.0	9,134.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 4
9,192.0	9,194.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 3
9,252.0	9,254.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 2
9,312.0	9,314.0	Wolfcamp B2, Original Hole	4.0	8	Stage 28 Cluster 1
9,372.0	9,374.0	Wolfcamp B2, Original Hole	4.0	8	Stage 27 Cluster 5
9,432.0	9,434.0	Wolfcamp B2, Original Hole	4.0	8	Stage 27 Cluster 4
9,492.0	9,494.0	Wolfcamp B2, Original Hole	4.0	8	Stage 27 Cluster 3
9,552.0	9,554.0	Wolfcamp B2, Original Hole	4.0	8	Stage 27 Cluster 2
9,612.0	9,614.0	Wolfcamp B2, Original Hole	4.0	8	Stage 27 Cluster 1
9,672.0	9,674.0	Wolfcamp B2, Original Hole	4.0	8	Stage 26 Cluster 5
9,732.0	9,734.0	Wolfcamp B2, Original Hole	4.0	8	Stage 26 Cluster 4
9,792.0	9,794.0	Wolfcamp B2, Original Hole	4.0	8	Stage 26 Cluster 3
9,852.0	9,854.0	Wolfcamp B2, Original Hole	4.0	8	Stage 26 Cluster 2
9,912.0	9,914.0	Wolfcamp B2, Original Hole	4.0	8	Stage 26 Cluster 1
9,972.0	9,974.0	Wolfcamp B2, Original Hole	4.0	8	Stage 25 Cluster 5
10,032.0	10,034.0	Wolfcamp B2, Original Hole	4.0	8	Stage 25 Cluster 4
10,092.0	10,094.0	Wolfcamp B2, Original Hole	4.0	8	Stage 25 Cluster 3
10,152.0	10,154.0	Wolfcamp B2, Original Hole	4.0	8	Stage 25 Cluster 2
10,212.0	10,214.0	Wolfcamp B2, Original Hole	4.0	8	Stage 25 Cluster 1
10,272.0	10,274.0	Wolfcamp B2, Original Hole	4.0	8	Stage 24 Cluster 2
10,332.0	10,334.0	Wolfcamp B2, Original Hole	4.0	8	Stage 24 Cluster 1
10,392.0	10,394.0	Wolfcamp B2, Original Hole	4.0	8	Stage 24 Cluster 3
10,452.0	10,454.0	Wolfcamp B2, Original Hole	4.0	8	Stage 24 Cluster 4
10,512.0	10,514.0	Wolfcamp B2, Original Hole	4.0	8	Stage 24 Cluster 5
10,572.0	10,574.0	Wolfcamp B2, Original Hole	4.0	8	Stage 23 Cluster 5
10,632.0	10,634.0	Wolfcamp B2, Original Hole	4.0	8	Stage 23 Cluster 4
10,692.0	10,694.0	Wolfcamp B2, Original Hole	4.0	8	Stage 23 Cluster 3
10,752.0	10,754.0	Wolfcamp B2, Original Hole	4.0	8	Stage 23 Cluster 2
10,812.0	10,814.0	Wolfcamp B2, Original Hole	4.0	8	Stage 23 Cluster 1
10,872.0	10,874.0	Wolfcamp B2, Original Hole	4.0	8	Stage 22 Cluster 4
10,932.0	10,934.0	Wolfcamp B2, Original Hole	4.0	8	Stage 22 Cluster 3
10,992.0	10,994.0	Wolfcamp B2, Original Hole	4.0	8	Stage 22 Cluster 2
11,052.0	11,054.0	Wolfcamp B2, Original Hole	4.0	8	Stage 22 Cluster 1
11,112.0	11,114.0	Wolfcamp B2, Original Hole	4.0	8	Stage 22 Cluster 1
11,172.0	11,174.0	Wolfcamp B2, Original Hole	4.0	8	Stage 21 Cluster 5

Perforations					
Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
11,232.0	11,234.0	Wolfcamp B2, Original Hole	4.0	8	Stage 21 Cluster 4
11,292.0	11,294.0	Wolfcamp B2, Original Hole	4.0	8	Stage 21 Cluster 3
11,352.0	11,354.0	Wolfcamp B2, Original Hole	4.0	8	Stage 21 Cluster 2
11,412.0	11,414.0	Wolfcamp B2, Original Hole	4.0	8	Stage 21 Cluster 1
11,472.0	11,474.0	Wolfcamp B2, Original Hole	4.0	8	Stage 20 Cluster 5
11,532.0	11,534.0	Wolfcamp B2, Original Hole	4.0	8	Stage 20 Cluster 4
11,592.0	11,594.0	Wolfcamp B2, Original Hole	4.0	8	Stage 20 Cluster 3
11,652.0	11,654.0	Wolfcamp B2, Original Hole	4.0	8	Stage 20 Cluster 2
11,712.0	11,714.0	Wolfcamp B2, Original Hole	4.0	8	Stage 20 Cluster 1
11,772.0	11,774.0	Wolfcamp B2, Original Hole	4.0	8	Stage 19 Cluster 5
11,832.0	11,834.0	Wolfcamp B2, Original Hole	4.0	8	Stage 19 Cluster 4
11,892.0	11,894.0	Wolfcamp B2, Original Hole	4.0	8	Stage 19 Cluster 3
11,952.0	11,954.0	Wolfcamp B2, Original Hole	4.0	8	Stage 19 Cluster 2
12,012.0	12,014.0	Wolfcamp B2, Original Hole	4.0	8	Stage 19 Cluster 1
12,072.0	12,074.0	Wolfcamp B2, Original Hole	4.0	8	Stage 18 Cluster 5
12,132.0	12,134.0	Wolfcamp B2, Original Hole	4.0	8	Stage 18 Cluster 4
12,192.0	12,194.0	Wolfcamp B2, Original Hole	4.0	8	Stage 18 Cluster 3
12,252.0	12,254.0	Wolfcamp B2, Original Hole	4.0	8	Stage 18 Cluster 2
12,312.0	12,314.0	Wolfcamp B2, Original Hole	4.0	8	Stage 18 Cluster 1
12,372.0	12,374.0	Wolfcamp B2, Original Hole	4.0	8	Stage 17 Cluster 5
12,432.0	12,434.0	Wolfcamp B2, Original Hole	4.0	8	Stage 17 Cluster4
12,492.0	12,494.0	Wolfcamp B2, Original Hole	4.0	8	Stage 17 Cluster 3
12,552.0	12,554.0	Wolfcamp B2, Original Hole	4.0	8	Stage 17 Cluster 2
12,612.0	12,614.0	Wolfcamp B2, Original Hole	4.0	8	Stage 17 Cluster 1
12,672.0	12,674.0	Wolfcamp B2, Original Hole	4.0	8	Stage 16 Cluster 5
12,732.0	12,734.0	Wolfcamp B2, Original Hole	4.0	8	Stage 16 Cluster 4
12,792.0	12,794.0	Wolfcamp B2, Original Hole	4.0	8	Stage 16 Cluster 3
12,852.0	12,854.0	Wolfcamp B2, Original Hole	4.0	8	Stage 16 Cluster 2
12,912.0	12,914.0	Wolfcamp B2, Original Hole	4.0	8	Stage 16 Cluster 1
12,972.0	12,974.0	Wolfcamp B2, Original Hole	4.0	8	Stage 15 Cluster 5
13,032.0	13,034.0	Wolfcamp B2, Original Hole	4.0	8	Stage 15 Cluster 4
13,092.0	13,094.0	Wolfcamp B2, Original Hole	4.0	8	Stage 15 Cluster 3
13,152.0	13,154.0	Wolfcamp B2, Original Hole	4.0	8	Stage 15 Cluster 2
13,212.0	13,214.0	Wolfcamp B2, Original Hole	4.0	8	Stage 15 Cluster 1
13,272.0	13,274.0	Wolfcamp B2, Original Hole	4.0	8	Stage 14 Cluster 5
13,332.0	13,334.0	Wolfcamp B2, Original Hole	4.0	8	Stage 14 Cluster 4
13,392.0	13,394.0	Wolfcamp B2, Original Hole	4.0	8	Stage 14 Cluster3
13,452.0	13,454.0	Wolfcamp B2, Original Hole	4.0	8	Stage 14 Cluster 2
13,512.0	13,514.0	Wolfcamp B2, Original Hole	4.0	8	Stage 14 Cluster 1
13,572.0	13,574.0	Wolfcamp B2, Original Hole	4.0	8	Stage 13 Cluster 5
13,632.0	13,684.0	Wolfcamp B2, Original Hole	4.0	8	Stage 13 Cluster 4
13,692.0	13,694.0	Wolfcamp B2, Original Hole	4.0	8	Stage 13 Cluster 3
13,752.0	13,574.0	Wolfcamp B2, Original Hole	4.0	8	Stage 13 Cluster 2
13,812.0	13,814.0	Wolfcamp B2, Original Hole	4.0	8	Stage 13 Cluster 1
13,872.0	13,874.0	Wolfcamp B2, Original Hole	4.0	8	Stage 12 Cluster 3
13,932.0	13,934.0	Wolfcamp B2, Original Hole	4.0	8	Stage 12 Cluster 3
13,992.0	13,994.0	Wolfcamp B2, Original Hole	4.0	8	Stage 12 Cluster 2
14,052.0	14,054.0	Wolfcamp B2, Original Hole	4.0	8	Stage 12 Cluster 1
14,112.0	14,114.0	Wolfcamp B2, Original Hole	5.0	10	Stage 11 Cluster 4
14,172.0	14,174.0	Wolfcamp B2, Original Hole	5.0	10	Stage 11 Cluster 3
14,232.0	14,234.0	Wolfcamp B2, Original Hole	5.0	10	Stage 11 Cluster 2
14,287.0	14,289.0	Wolfcamp B2, Original Hole	5.0	10	Stage 11 Cluster 1
14,352.0	14,354.0	Wolfcamp B2, Original Hole	5.0	10	Stage 10 Cluster 4
14,412.0	14,414.0	Wolfcamp B2, Original Hole	5.0	10	Stage 10 Cluster 3

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Perforations					
Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
14,472.0	14,474.0	Wolfcamp B2, Original Hole	5.0	10	Stage 10 Cluster 2
14,532.0	14,534.0	Wolfcamp B2, Original Hole	5.0	10	Stage 10 Cluster 1
14,592.0	14,594.0	Wolfcamp B2, Original Hole	4.0	8	Stage 9 Cluster 5
14,652.0	14,654.0	Wolfcamp B2, Original Hole	4.0	8	Stage 9 Cluster 4
14,712.0	14,714.0	Wolfcamp B2, Original Hole	4.0	8	Stage 9 Cluster 3
14,772.0	14,774.0	Wolfcamp B2, Original Hole	4.0	8	Stage 9 Cluster 2
14,832.0	14,834.0		4.0	8	Stage 9 Cluster 1
14,892.0	14,894.0	Wolfcamp B2, Original Hole	4.0	8	Stage 8 Cluster 5
14,952.0	14,954.0	Wolfcamp B2, Original Hole	4.0	8	Stage 8 Cluster 4
15,012.0	15,014.0	Wolfcamp B2, Original Hole	4.0	8	Stage 8 Cluster 3
15,072.0	15,074.0	Wolfcamp B2, Original Hole	4.0	8	Stage 8 Cluster 2
15,132.0	15,134.0	Wolfcamp B2, Original Hole	4.0	8	Stage 8 Cluster 1
15,192.0	15,194.0	Wolfcamp B2, Original Hole	4.0	8	Stage 7 Cluster 5
15,252.0	15,254.0	Wolfcamp B2, Original Hole	4.0	8	Stage 7 Cluster 4
15,312.0	15,314.0	Wolfcamp B2, Original Hole	4.0	8	Stage 7 Cluster 3
15,372.0	15,374.0	Wolfcamp B2, Original Hole	4.0	8	Stage 7 Cluster 2
15,432.0	15,434.0	Wolfcamp B2, Original Hole	4.0	8	Stage 7 Cluster 1
15,492.0	15,494.0	Wolfcamp B2, Original Hole	4.0	8	Stage 6 Cluster 5
15,552.0	15,554.0	Wolfcamp B2, Original Hole	4.0	8	Stage 6 Cluster 4
15,612.0	15,614.0	Wolfcamp B2, Original Hole	4.0	8	Stage 6 Cluster 3
15,672.0	15,674.0	Wolfcamp B2, Original Hole	4.0	8	Stage 6 Cluster 2
15,732.0	15,734.0	Wolfcamp B2, Original Hole	4.0	8	Stage 6 Cluster 1
15,792.0	15,794.0	Wolfcamp B2, Original Hole	4.0	8	Stage 5 Cluster 5
15,852.0	15,854.0	Wolfcamp B2, Original Hole	4.0	8	Stage 5 Cluster 4
15,912.0	15,914.0	Wolfcamp B2, Original Hole	4.0	8	Stage 5 Cluster 3
15,972.0	15,974.0	Wolfcamp B2, Original Hole	4.0	8	Stage 5 Cluster 2
16,032.0	16,034.0	Wolfcamp B2, Original Hole	4.0	8	Stage 5 Cluster 1
16,092.0	16,094.0	Wolfcamp B2, Original Hole	4.0	8	Stage 4 Cluster 5
16,152.0	16,154.0	Wolfcamp B2, Original Hole	4.0	8	Stage 4 Cluster 4
16,212.0	16,214.0	Wolfcamp B2, Original Hole	4.0	8	Stage 4 Cluster 3
16,272.0	16,274.0	Wolfcamp B2, Original Hole	4.0	8	Stage 4 Cluster 2
16,332.0	16,334.0	Wolfcamp B2, Original Hole	4.0	8	Stage 4 Cluster 1
16,392.0	16,394.0	Wolfcamp B2, Original Hole	4.0	8	Stage 3 Cluster 5
16,452.0	16,454.0	Wolfcamp B2, Original Hole	4.0	8	Stage 3 Cluster 4
16,512.0	16,514.0	Wolfcamp B2, Original Hole	4.0	8	Stage 3 Cluster 3
16,572.0	16,574.0	Wolfcamp B2, Original Hole	4.0	8	Stage 3 Cluster 2
16,632.0	16,634.0	Wolfcamp B2, Original Hole	4.0	8	Stage 3 Cluster 1
16,692.0	16,694.0	Wolfcamp B2, Original Hole	4.0	8	Stage 2 Cluster 5
16,752.0	16,754.0	Wolfcamp B2, Original Hole	4.0	8	Stage 2 Cluster 4
16,812.0	16,814.0	Wolfcamp B2, Original Hole	4.0	8	Stage 2 Cluster 3
16,872.0	16,874.0	Wolfcamp B2, Original Hole	4.0	8	Stage 2 Cluster 2
16,932.0	16,934.0	Wolfcamp B2, Original Hole	4.0	8	Stage 2 Cluster 1

### Completion (FRAC) Details

#### Stage 1 on 9/30/2014 01:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
9/30/2014	Stage 1	Wolfcamp B2, Original Hole	Pioneer Pumping Services	16,954.0	16,959.0

#### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	36.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	36.00
Fluid Name	Total Clean Volume (bbl)
15# XLink	36.00

#### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand		lb	20/40	1.50

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand		lb	20/40	0.50
Brown Sand	Bulk Sand		lb	20/40	2.50
Brown Sand	Bulk Sand		lb	20/40	1.00
Brown Sand	Bulk Sand		lb	20/40	2.00
Brown Sand	Bulk Sand		lb	20/40	3.00

STAGE 2 on 10/2/2014 08:30					
Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/2/2014	STAGE 2	Wolfcamp B2, Original Hole	Pioneer Pumping Services	16,692.0	16,934.0

GEL	
Fluid Name	Total Clean Volume (bbi)
15% HCl	4,654.00
15# XLink	4,654.00
Slickwater	4,654.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	1,502.0	lb	30/50	0.25
Brown Sand	Bulk Sand		lb	30/50	1.00
Brown Sand	Bulk Sand		lb	30/50	1.50
Brown Sand	Bulk Sand		lb	30/50	2.00
Brown Sand	Bulk Sand		lb	30/50	2.50
Brown Sand	Bulk Sand		lb	30/50	3.00

STAGE 3 on 10/3/2014 07:15					
Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/3/2014	STAGE 3	Wolfcamp B2, Original Hole	Pioneer Pumping Services	16,392.0	16,634.0

GEL	
Fluid Name	Total Clean Volume (bbi)
15% HCl	8,530.00
15# XLink	8,530.00
Slickwater	8,530.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,500.0	lb	30/50	0.50
Brown Sand	Bulk Sand	25,000.0	lb	30/50	1.00
Brown Sand	Bulk Sand	45,000.0	lb	30/50	1.50
Brown Sand	Bulk Sand	60,000.0	lb	30/50	2.00
Brown Sand	Bulk Sand	87,500.0	lb	30/50	2.50
Brown Sand	Bulk Sand	106,485.0	lb	30/50	3.00

STAGE 4 on 10/3/2014 20:00					
Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/3/2014	STAGE 4	Wolfcamp B2, Original Hole	Pioneer Pumping Services	16,092.0	16,334.0

GEL	
Fluid Name	Total Clean Volume (bbi)
15% HCl	8,064.00
Slickwater	8,064.00
15# XLink	8,064.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	17,451.0	lb	20/40	0.50
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50
Brown Sand	Bulk Sand	101,378.0	lb	20/40	3.00

### STAGE 5 on 10/4/2014 05:15

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/4/2014	STAGE 5	Wolfcamp B2, Original Hole	Pioneer Pumping Services	15,792.0	16,034.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	6,071.00
15# XLink	6,071.00
Slickwater	6,071.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	1,229.0	lb	30/50	0.25

### STAGE 6 on 10/4/2014 15:15

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/4/2014	STAGE 6	Wolfcamp B2, Original Hole	Pioneer Pumping Services	15,492.0	15,734.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	4,183.00
15# XLink	4,183.00
Slickwater	4,183.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	5,095.0	lb	20/40	0.50
Brown Sand	Bulk Sand		lb	20/40	1.00
Brown Sand	Bulk Sand		lb	20/40	1.50
Brown Sand	Bulk Sand		lb	20/40	2.00
Brown Sand	Bulk Sand		lb	20/40	2.50
Brown Sand	Bulk Sand		lb	20/40	3.00

### STAGE 7 on 10/5/2014 02:41

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/5/2014	STAGE 7	Wolfcamp B2, Original Hole	Pioneer Pumping Services	15,192.0	15,434.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	3,257.00
15# XLink	3,257.00
Slickwater	3,257.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	2,800.0	lb	30/50	0.10
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00

### STAGE 8 on 10/6/2014 11:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/6/2014	STAGE 8	Wolfcamp B2, Original Hole	Pioneer Pumping Services	14,892.0	15,134.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	6,026.00
15# XLink	6,026.00
Slickwater	6,026.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	4,590.0	lb	30/50	0.25

### STAGE 9 on 10/7/2014 15:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/7/2014	STAGE 9	Wolfcamp B2, Original Hole	Pioneer Pumping Services	14,592.0	14,834.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	8,446.00
Slickwater	8,446.00
15# XLink	8,446.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,500.0	lb	30/50	0.50
Brown Sand	Bulk Sand	25,000.0	lb	30/50	1.00
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50
Brown Sand	Bulk Sand	103,677.0	lb	20/40	3.00

### STAGE 10 on 10/8/2014 01:50

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/8/2014	STAGE 10	Wolfcamp B2, Original Hole	Pioneer Pumping Services	14,352.0	14,534.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	7,959.00
15# XLink	7,959.00
Slickwater	7,959.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,500.0	lb	30/50	0.50
Brown Sand	Bulk Sand	25,000.0	lb	30/50	1.00
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50
Brown Sand	Bulk Sand	104,922.0	lb	20/40	3.00

### STAGE 11 on 10/8/2014 13:21

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/8/2014	STAGE 11	Wolfcamp B2, Original Hole	Pioneer Pumping Services	14,112.0	14,289.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	8,435.00
15# XLink	8,435.00
Slickwater	8,435.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,539.0	lb	30/50	0.50
Brown Sand	Bulk Sand	25,248.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,347.0	lb	20/40	1.50
Brown Sand	Bulk Sand	61,489.0	lb	20/40	2.00
Brown Sand	Bulk Sand	85,951.0	lb	20/40	2.50
Brown Sand	Bulk Sand	107,507.0	lb	20/40	3.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Completion (FRAC) Details						
<b>STAGE 12 on 10/8/2014 23:00</b>						
Date	Type	Zone	Stim/Treat Company		Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/8/2014	STAGE 12	Wolfcamp B2, Original Hole	Pioneer Pumping Services		13,872.0	14,054.0
<b>GEL</b>						
Fluid Name			Total Clean Volume (bbl)			
15% HCl			7,957.00			
Fluid Name			Total Clean Volume (bbl)			
15# XLink			7,957.00			
Fluid Name			Total Clean Volume (bbl)			
Slickwater			7,957.00			
<b>SAND &amp; ACID</b>						
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	12,500.0	lb	30/50	0.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	105,649.0	lb	20/40	3.00	
<b>STAGE 13 on 10/9/2014 10:36</b>						
Date	Type	Zone	Stim/Treat Company		Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/9/2014	STAGE 13	Wolfcamp B2, Original Hole	Pioneer Pumping Services		13,572.0	13,814.0
<b>GEL</b>						
Fluid Name			Total Clean Volume (bbl)			
15% HCl			7,919.00			
Fluid Name			Total Clean Volume (bbl)			
Slickwater			7,919.00			
Fluid Name			Total Clean Volume (bbl)			
15# XLink			7,919.00			
<b>SAND &amp; ACID</b>						
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	12,500.0	lb	20/40	0.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	106,441.0	lb	20/40	3.00	
<b>STAGE 14 on 10/9/2014 22:00</b>						
Date	Type	Zone	Stim/Treat Company		Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/9/2014	STAGE 14	Wolfcamp B2, Original Hole	Pioneer Pumping Services		13,272.0	13,512.0
<b>GEL</b>						
Fluid Name			Total Clean Volume (bbl)			
15% HCl			7,900.00			
Fluid Name			Total Clean Volume (bbl)			
Slickwater			7,900.00			
Fluid Name			Total Clean Volume (bbl)			
15# XLink			7,900.00			
<b>SAND &amp; ACID</b>						
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	12,500.0	lb	20/40	0.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	105,201.0	lb	20/40	3.00	
<b>STAGE 15 on 10/10/2014 11:18</b>						
Date	Type	Zone	Stim/Treat Company		Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/10/2014	STAGE 15	Wolfcamp B2, Original Hole	Pioneer Pumping Services		12,972.0	13,214.0

**Drilling & Completion Summary - Ascending**

**Well Name: UNIVERSITY 3-14 12H**

<b>GEL</b>	
Fluid Name 15% HCl	Total Clean Volume (bbl) 7,757.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,757.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,757.00

<b>SAND &amp; ACID</b>						
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 105,553.0	Units lb	Sand Size 20/40	Concentration...	

<b>STAGE 16 on 10/11/2014 04:54</b>						
Date 10/11/2014	Type STAGE 16	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 12,672.0	Max Btm Depth (ftKB) 12,914.0	

<b>GEL</b>	
Fluid Name 15% HCl	Total Clean Volume (bbl) 7,863.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,863.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,863.00

<b>SAND &amp; ACID</b>						
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 106,742.0	Units lb	Sand Size 20/40	Concentration...	

<b>STAGE 17 on 10/11/2014 14:43</b>						
Date 10/11/2014	Type STAGE 17	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 12,372.0	Max Btm Depth (ftKB) 12,614.0	

<b>GEL</b>	
Fluid Name 15% HCl	Total Clean Volume (bbl) 7,671.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,671.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,671.00

<b>SAND &amp; ACID</b>						
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration...	
Additive Brown Sand	Type Bulk Sand	Amount 104,157.0	Units lb	Sand Size 20/40	Concentration...	

<b>STAGE 18 on 10/11/2014 22:30</b>						
Date 10/11/2014	Type STAGE 18	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 12,072.0	Max Btm Depth (ftKB) 12,312.0	

<b>GEL</b>	
Fluid Name 15% HCl	Total Clean Volume (bbl) 7,612.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

<b>GEL</b>	
Fluid Name Slickwater	Total Clean Volume (bbl) 7,612.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,612.00

<b>SAND &amp; ACID</b>					
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration... 2.00
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration... 2.50
Additive Brown Sand	Type Bulk Sand	Amount 105,011.0	Units lb	Sand Size 20/40	Concentration... 3.00

<b>STAGE 19 on 10/12/2014 04:00</b>					
Date 10/12/2014	Type STAGE 19	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 11,772.0	Max Btm Depth (ftKB) 12,012.0

<b>GEL</b>	
Fluid Name 15% HCl	Total Clean Volume (bbl) 7,568.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,568.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,568.00

<b>SAND &amp; ACID</b>					
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration... 2.00
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration... 2.50
Additive Brown Sand	Type Bulk Sand	Amount 105,448.0	Units lb	Sand Size 20/40	Concentration... 3.00

<b>STAGE 20 on 10/12/2014 10:07</b>					
Date 10/12/2014	Type STAGE 20	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 11,472.0	Max Btm Depth (ftKB) 11,714.0

<b>GEL</b>	
Fluid Name 15% HCl	Total Clean Volume (bbl) 7,614.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,614.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,614.00

<b>SAND &amp; ACID</b>					
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration... 2.00
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration... 2.50
Additive Brown Sand	Type Bulk Sand	Amount 105,751.0	Units lb	Sand Size 20/40	Concentration... 3.00

<b>STAGE 21 on 10/12/2014 17:08</b>					
Date 10/12/2014	Type STAGE 21	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 11,172.0	Max Btm Depth (ftKB) 11,414.0

<b>GEL</b>	
Fluid Name 15% HCl	Total Clean Volume (bbl) 7,455.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,455.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

GEL					
Fluid Name Slickwater					Total Clean Volume (bbl) 7,455.00
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration... 2.00
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration... 2.50
Additive Brown Sand	Type Bulk Sand	Amount 106,415.0	Units lb	Sand Size 20/40	Concentration... 3.00
STAGE 22 on 10/13/2014 04:07					
Date 10/13/2014	Type STAGE 22	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 10,872.0	Max Btm Depth (ftKB) 11,114.0
GEL					
Fluid Name 15% HCl					Total Clean Volume (bbl) 4,686.00
Fluid Name 15# XLink					Total Clean Volume (bbl) 4,686.00
Fluid Name Slickwater					Total Clean Volume (bbl) 4,686.00
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 6,262.0	Units lb	Sand Size 20/40	Concentration... 0.50
STAGE 23 on 10/13/2014 11:11					
Date 10/13/2014	Type STAGE 23	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 10,572.0	Max Btm Depth (ftKB) 10,814.0
GEL					
Fluid Name 15% HCl					Total Clean Volume (bbl) 7,476.00
Fluid Name 15# XLink					Total Clean Volume (bbl) 7,476.00
Fluid Name Slickwater					Total Clean Volume (bbl) 7,476.00
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration... 2.00
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration... 2.50
Additive Brown Sand	Type Bulk Sand	Amount 107,280.0	Units lb	Sand Size 20/40	Concentration... 3.00
STAGE 24 on 10/13/2014 19:15					
Date 10/13/2014	Type STAGE 24	Zone Wolfcamp B2, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 10,272.0	Max Btm Depth (ftKB) 10,514.0
GEL					
Fluid Name 15% HCl					Total Clean Volume (bbl) 7,570.00
Fluid Name 15# XLink					Total Clean Volume (bbl) 7,570.00
Fluid Name Slickwater					Total Clean Volume (bbl) 7,570.00
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 20/40	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 20/40	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 20/40	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 20/40	Concentration... 2.00
Additive Brown Sand	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 20/40	Concentration... 2.50

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	106,363.0	lb	20/40	3.00

### STAGE 25 on 10/14/2014 02:43

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/14/2014	STAGE 25	Wolfcamp B2, Original Hole	Pioneer Pumping Services	9,972.0	10,214.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	7,435.00
15# XLink	7,435.00
Slickwater	7,435.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,500.0	lb	20/40	0.50
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50
Brown Sand	Bulk Sand	105,393.0	lb	20/40	3.00

### STAGE 26 on 10/14/2014 08:53

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/14/2014	STAGE 26	Wolfcamp B2, Original Hole	Pioneer Pumping Services	9,672.0	9,914.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	7,322.00
15# XLink	7,322.00
Slickwater	7,322.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,500.0	lb	20/40	0.50
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50
Brown Sand	Bulk Sand	106,504.0	lb	20/40	3.00

### STAGE 27 on 10/14/2014 14:57

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/14/2014	STAGE 27	Wolfcamp B2, Original Hole	Pioneer Pumping Services	9,372.0	9,614.0

### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	7,320.00
15# XLink	7,320.00
Slickwater	7,320.00

### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,500.0	lb	20/40	0.50
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50
Brown Sand	Bulk Sand	106,334.0	lb	20/40	3.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

### Completion (FRAC) Details

#### STAGE 28 on 10/14/2014 21:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/14/2014	STAGE 28	Wolfcamp B2, Original Hole	Pioneer Pumping Services	9,072.0	9,312.0

#### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	7,547.00
Fluid Name	Total Clean Volume (bbl)
15# XLink	7,547.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	7,547.00

#### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,500.0	lb	20/40	0.50
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50
Brown Sand	Bulk Sand	115,469.0	lb	20/40	3.00

#### STAGE 29 on 10/15/2014 03:41

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
10/15/2014	STAGE 29	Wolfcamp B2, Original Hole	Pioneer Pumping Services	8,772.0	9,014.0

#### GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	7,730.00
Fluid Name	Total Clean Volume (bbl)
15# XLink	7,730.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	7,730.00

#### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	12,500.0	lb	20/40	0.50
Brown Sand	Bulk Sand	25,000.0	lb	20/40	1.00
Brown Sand	Bulk Sand	45,000.0	lb	20/40	1.50
Brown Sand	Bulk Sand	60,000.0	lb	20/40	2.00
Brown Sand	Bulk Sand	87,500.0	lb	20/40	2.50
Brown Sand	Bulk Sand	142,950.0	lb	20/40	3.00

#### Zones

Zone Name	Top (ftKB)
Wolfcamp B2	

#### Tubing Details

Tubing Description	Set Depth (ftKB)	Run Date

#### Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)

#### Rod Strings

Rod Description	Set Depth (ftKB)	Run Date

#### Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)	Make	Model	SN

#### Other In Hole

Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug 1			4.89	10/2/2014	No Plug set	Production, 17,052.0ftKB	Original Hole
Composite Plug 2			4.89	10/2/2014	No plug set	Production, 17,052.0ftKB	Original Hole
Composite Plug 3	16,349.0	16,351.0	4.89	10/3/2014		Production, 17,052.0ftKB	Original Hole

Other In Hole							
Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug 4	16,049.0	16,051.0	4.89	10/3/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 5			4.89	10/4/2014	NO PLUG SET	Production, 17,052.0ftKB	Original Hole
Composite Plug 6	15,449.0	15,451.0	4.89	10/4/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 7	15,149.0	15,151.0	4.89	10/5/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 8	14,849.0	14,851.0	4.89	10/7/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 9	14,549.0	14,551.0	4.89	10/7/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 10	14,302.0	14,304.0	4.89	10/8/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 11	14,071.0	14,073.0	4.89	10/8/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 12	13,829.0	13,831.0	4.89	10/9/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 13	13,529.0	13,531.0	4.89	10/9/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 14	13,229.0	13,231.0	4.89	10/10/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 15	12,929.0	12,931.0	4.89	10/10/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 16	12,629.0	12,631.0	4.89	10/11/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 17	12,329.0	12,331.0	4.89	10/11/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 18	12,031.0	12,033.0	4.89	10/12/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 19	11,729.0	11,731.0	4.89	10/12/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 20	11,429.0	11,431.0	4.89	10/12/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 21	11,129.0	11,131.0	4.89	10/12/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 22	10,829.0	10,831.0	4.89	10/13/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 23	10,529.0	10,531.0	4.89	10/13/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 24	10,229.0	10,231.0	4.89	10/13/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 25	9,927.0	9,929.0	4.89	10/14/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 26	9,627.0	9,629.0	4.89	10/14/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 27	9,329.0	9,331.0	4.89	10/14/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 28	9,029.0	9,031.0	4.89	10/15/2014		Production, 17,052.0ftKB	Original Hole
Composite Plug 29	8,720.0	8,722.0	4.89	10/15/2014			Original Hole

Well Tests								
Description					Volume Oil Total (bbl)	Volume Gas Total (MCF)	Volume Water Total (bbl)	
Start Date	End Date	Sz Dia Choke (in)	P Tub End (psi)	P Cas End (psi)	Com	Vol Oil Tot (bbl)	Vol Gas Tot (MCF)	Vol Water Tot (bbl)

Directional Survey							
Date			Description				
7/23/2014			MAIN HOLE SURVEY				

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
7/23/2014	0.00	0.00	0.00	0.00	0.00	Pathfinder
7/23/2014	176.00	0.97	12.05	175.99	1.49	Pathfinder
7/23/2014	232.00	1.41	22.36	231.98	2.65	Pathfinder
7/23/2014	325.00	0.44	346.14	324.97	4.10	Pathfinder
7/23/2014	417.00	0.35	271.80	416.97	4.60	Pathfinder
7/23/2014	509.00	1.32	261.69	508.95	5.94	Pathfinder
7/23/2014	601.00	2.02	260.38	600.91	8.62	Pathfinder
7/23/2014	694.00	2.11	258.55	693.85	11.97	Pathfinder
7/23/2014	786.00	1.49	252.62	785.81	14.86	Pathfinder
7/23/2014	878.00	1.49	250.31	877.78	17.25	Pathfinder
7/23/2014	972.00	1.41	247.46	971.75	19.63	Pathfinder
7/23/2014	1,034.00	1.49	246.85	1,033.73	21.20	Pathfinder
7/26/2014	1,178.00	1.14	220.01	1,177.69	24.41	Pathfinder
7/26/2014	1,273.00	0.97	216.33	1,272.67	26.16	Pathfinder
7/26/2014	1,368.00	0.97	208.45	1,367.66	27.77	Pathfinder
7/26/2014	1,463.00	0.62	200.56	1,462.65	29.08	Pathfinder
7/26/2014	1,558.00	0.70	203.79	1,557.65	30.17	Pathfinder
7/26/2014	1,654.00	0.53	186.27	1,653.64	31.19	Pathfinder
7/26/2014	1,749.00	0.35	174.93	1,748.64	31.92	Pathfinder
7/26/2014	1,843.00	0.26	185.47	1,842.64	32.42	Pathfinder
7/26/2014	1,939.00	0.26	198.39	1,938.63	32.85	Pathfinder
7/26/2014	2,034.00	0.35	146.58	2,033.63	33.31	Pathfinder
7/26/2014	2,129.00	0.18	93.46	2,128.63	33.70	Pathfinder
7/26/2014	2,225.00	0.18	19.84	2,224.63	33.95	Pathfinder
7/26/2014	2,319.00	0.18	32.72	2,318.63	34.24	Pathfinder
7/26/2014	2,414.00	0.18	339.12	2,413.63	34.51	Pathfinder
7/26/2014	2,509.00	0.18	272.77	2,508.63	34.76	Pathfinder
7/26/2014	2,604.00	0.18	7.20	2,603.63	34.96	Pathfinder
7/26/2014	2,699.00	0.18	293.01	2,698.63	35.20	Pathfinder
7/26/2014	2,794.00	0.26	315.82	2,793.63	35.55	Pathfinder
7/26/2014	2,890.00	0.09	61.44	2,889.63	35.76	Pathfinder
7/26/2014	2,984.00	0.09	318.71	2,983.63	35.86	Pathfinder
7/26/2014	3,079.00	0.09	8.39	3,078.63	35.99	Pathfinder
7/26/2014	3,175.00	1.06	209.17	3,174.62	36.81	Pathfinder
7/26/2014	3,270.00	2.55	210.37	3,269.57	39.80	Pathfinder
7/26/2014	3,365.00	3.87	215.19	3,364.42	45.12	Pathfinder
7/27/2014	3,459.00	5.19	216.89	3,458.13	52.54	Pathfinder
7/27/2014	3,555.00	5.28	219.63	3,553.73	61.30	Pathfinder
7/27/2014	3,650.00	4.84	218.35	3,648.36	69.68	Pathfinder
7/27/2014	3,745.00	4.57	217.79	3,743.04	77.47	Pathfinder
7/27/2014	3,840.00	4.92	222.86	3,837.71	85.32	Pathfinder
7/27/2014	3,936.00	4.92	230.80	3,933.36	93.53	Pathfinder
7/27/2014	4,031.00	4.57	229.92	4,028.03	101.39	Pathfinder
7/27/2014	4,126.00	4.48	229.04	4,122.74	108.89	Pathfinder
7/27/2014	4,221.00	4.22	228.72	4,217.46	116.09	Pathfinder
7/27/2014	4,316.00	4.66	224.05	4,312.18	123.44	Pathfinder
7/27/2014	4,411.00	4.75	221.73	4,406.86	131.23	Pathfinder
7/27/2014	4,506.00	4.57	220.95	4,501.54	138.95	Pathfinder
7/27/2014	4,601.00	4.22	221.31	4,596.26	146.23	Pathfinder
7/27/2014	4,696.00	4.13	221.92	4,691.01	153.14	Pathfinder
7/27/2014	4,791.00	3.87	220.28	4,785.78	159.77	Pathfinder
7/27/2014	4,886.00	4.75	222.04	4,880.51	166.91	Pathfinder
7/28/2014	4,981.00	5.10	222.87	4,975.16	175.06	Pathfinder
7/28/2014	5,076.00	4.57	227.31	5,069.82	183.07	Pathfinder
7/28/2014	5,171.00	3.87	232.32	5,164.56	190.05	Pathfinder
7/28/2014	5,267.00	4.48	227.83	5,260.31	197.03	Pathfinder

**Drilling & Completion Summary - Ascending**

**Well Name: UNIVERSITY 3-14 12H**

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
7/28/2014	5,362.00	4.48	224.48	5,355.02	204.45	Pathfinder
7/28/2014	5,457.00	3.96	224.59	5,449.76	211.44	Pathfinder
7/28/2014	5,552.00	4.66	219.60	5,544.49	218.57	Pathfinder
7/28/2014	5,647.00	5.98	218.40	5,639.08	227.38	Pathfinder
7/28/2014	5,742.00	6.07	218.76	5,733.56	237.35	Pathfinder
7/28/2014	5,837.00	5.63	218.92	5,828.06	247.04	Pathfinder
7/28/2014	5,933.00	5.10	216.02	5,923.64	256.01	Pathfinder
7/28/2014	6,028.00	5.45	221.95	6,018.24	264.73	Pathfinder
7/29/2014	6,123.00	5.19	226.27	6,112.83	273.53	Pathfinder
7/29/2014	6,217.00	4.40	222.49	6,206.50	281.39	Pathfinder
7/29/2014	6,312.00	3.78	217.11	6,301.26	288.16	Pathfinder
7/29/2014	6,408.00	4.40	214.48	6,397.01	295.00	Pathfinder
7/29/2014	6,503.00	5.10	219.51	6,491.69	302.86	Pathfinder
7/29/2014	6,598.00	4.48	222.67	6,586.36	310.79	Pathfinder
7/29/2014	6,693.00	4.66	227.87	6,681.05	318.35	Pathfinder
7/29/2014	6,789.00	5.54	227.03	6,776.67	326.88	Pathfinder
7/29/2014	6,884.00	5.28	226.85	6,871.25	335.84	Pathfinder
7/29/2014	6,979.00	4.66	225.33	6,965.89	344.07	Pathfinder
7/31/2014	7,074.00	3.96	222.98	7,060.62	351.21	Pathfinder
7/31/2014	7,169.00	3.69	226.16	7,155.41	357.54	Pathfinder
7/31/2014	7,265.00	3.43	226.48	7,251.23	363.50	Pathfinder
7/31/2014	7,360.00	4.66	226.85	7,345.99	370.21	Pathfinder
7/31/2014	7,455.00	4.66	230.01	7,440.67	377.92	Pathfinder
7/31/2014	7,550.00	3.87	229.71	7,535.41	384.99	Pathfinder
7/31/2014	7,645.00	3.43	226.78	7,630.22	391.03	Pathfinder
7/31/2014	7,740.00	2.99	226.52	7,725.07	396.35	Pathfinder
8/1/2014	7,835.00	2.46	222.73	7,819.96	400.87	Pathfinder
8/1/2014	7,930.00	1.67	210.93	7,914.90	404.27	Pathfinder
8/1/2014	7,968.00	1.49	206.92	7,952.88	405.32	Pathfinder
8/4/2014	8,030.00	1.30	203.50	8,014.86	406.83	MS
8/4/2014	8,125.00	1.10	196.40	8,109.84	408.81	MS
8/4/2014	8,221.00	9.90	347.60	8,205.41	416.29	MS
8/4/2014	8,316.00	19.70	3.30	8,297.18	440.34	MS
8/4/2014	8,411.00	28.00	2.50	8,383.99	478.72	MS
8/4/2014	8,506.00	33.10	359.60	8,465.78	526.97	MS
8/4/2014	8,601.00	40.30	356.30	8,541.91	583.69	MS
8/4/2014	8,696.00	52.10	359.00	8,607.55	652.13	MS
8/4/2014	8,791.00	65.30	2.00	8,656.80	733.11	MS
8/4/2014	8,887.00	71.90	360.00	8,691.81	822.43	MS
8/4/2014	8,982.00	79.30	357.50	8,715.43	914.38	MS
8/5/2014	9,077.00	89.40	359.40	8,724.77	1,008.79	MS
8/5/2014	9,173.00	88.30	359.10	8,726.70	1,104.77	MS
8/5/2014	9,268.00	88.20	359.40	8,729.60	1,199.72	MS
8/5/2014	9,363.00	91.30	359.00	8,730.01	1,294.71	MS
8/5/2014	9,458.00	91.40	359.60	8,727.77	1,389.68	MS
8/5/2014	9,553.00	91.60	359.90	8,725.29	1,484.65	MS
8/5/2014	9,648.00	92.00	359.60	8,722.30	1,579.60	MS
8/5/2014	9,744.00	90.20	359.50	8,720.46	1,675.58	MS
8/5/2014	9,839.00	90.40	359.60	8,719.96	1,770.58	MS
8/5/2014	9,934.00	90.70	359.20	8,719.05	1,865.58	MS
8/5/2014	10,029.00	90.60	358.90	8,717.97	1,960.57	MS
8/5/2014	10,124.00	89.80	0.50	8,717.64	2,055.57	MS
8/5/2014	10,219.00	89.30	360.00	8,718.39	2,150.56	MS
8/5/2014	10,315.00	89.30	360.00	8,719.56	2,246.55	MS
8/5/2014	10,410.00	89.60	1.80	8,720.47	2,341.55	MS
8/5/2014	10,505.00	89.50	2.10	8,721.22	2,436.54	MS

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
8/5/2014	10,600.00	89.90	2.50	8,721.72	2,531.54	MS
8/5/2014	10,695.00	91.70	3.10	8,720.39	2,626.53	MS
8/5/2014	10,790.00	90.30	2.00	8,718.73	2,721.51	MS
8/5/2014	10,885.00	90.10	1.10	8,718.40	2,816.51	MS
8/5/2014	10,981.00	90.00	0.80	8,718.32	2,912.51	MS
8/5/2014	11,075.00	90.20	0.70	8,718.15	3,006.51	MS
8/5/2014	11,170.00	90.00	0.30	8,717.99	3,101.51	MS
8/5/2014	11,265.00	89.80	0.10	8,718.15	3,196.51	MS
8/5/2014	11,361.00	89.50	359.60	8,718.74	3,292.51	MS
8/5/2014	11,456.00	90.70	2.70	8,718.57	3,387.49	MS
8/5/2014	11,551.00	91.20	3.70	8,717.00	3,482.48	MS
8/5/2014	11,646.00	90.10	3.40	8,715.92	3,577.47	MS
8/5/2014	11,741.00	90.40	4.40	8,715.50	3,672.47	MS
8/5/2014	11,837.00	90.30	3.90	8,714.92	3,768.46	MS
8/5/2014	11,932.00	90.50	3.80	8,714.25	3,863.46	MS
8/6/2014	12,027.00	90.40	2.70	8,713.51	3,958.46	MS
8/6/2014	12,122.00	90.40	2.00	8,712.85	4,053.46	MS
8/6/2014	12,217.00	90.70	2.00	8,711.93	4,148.45	MS
8/6/2014	12,312.00	90.90	2.10	8,710.61	4,243.44	MS
8/6/2014	12,407.00	91.20	2.00	8,708.87	4,338.43	MS
8/6/2014	12,598.00	91.60	1.00	8,704.20	4,529.37	MS
8/6/2014	12,693.00	91.60	1.60	8,701.55	4,624.33	MS
8/6/2014	12,788.00	90.40	359.60	8,699.89	4,719.31	MS
8/6/2014	12,883.00	90.80	359.50	8,698.89	4,814.30	MS
8/6/2014	12,978.00	89.30	359.20	8,698.81	4,909.30	MS
8/6/2014	13,073.00	89.90	359.50	8,699.47	5,004.30	MS
8/6/2014	13,169.00	89.80	359.50	8,699.73	5,100.30	MS
8/6/2014	13,264.00	90.00	359.40	8,699.89	5,195.30	MS
8/6/2014	13,359.00	90.10	360.00	8,699.81	5,290.29	MS
8/6/2014	13,454.00	90.20	0.10	8,699.56	5,385.29	MS
8/6/2014	13,549.00	90.60	359.50	8,698.90	5,480.29	MS
8/6/2014	13,644.00	88.90	0.30	8,699.31	5,575.29	MS
8/6/2014	13,739.00	89.20	0.40	8,700.89	5,670.27	MS
8/6/2014	13,834.00	89.30	0.40	8,702.13	5,765.27	MS
8/6/2014	13,929.00	89.90	0.50	8,702.79	5,860.26	MS
8/6/2014	14,024.00	90.10	0.40	8,702.79	5,955.26	MS
8/6/2014	14,120.00	88.80	1.90	8,703.71	6,051.25	MS
8/6/2014	14,215.00	90.10	3.10	8,704.63	6,146.24	MS
8/6/2014	14,310.00	91.20	4.60	8,703.55	6,241.23	MS
8/6/2014	14,405.00	91.60	2.70	8,701.23	6,336.20	MS
8/6/2014	14,500.00	89.80	1.70	8,700.07	6,431.19	MS
8/7/2014	14,690.00	87.10	358.40	8,705.21	6,621.08	MS
8/7/2014	14,786.00	87.40	358.80	8,709.81	6,716.97	MS
8/7/2014	14,881.00	87.50	358.80	8,714.04	6,811.87	MS
8/7/2014	14,976.00	89.10	359.90	8,716.86	6,906.82	MS
8/7/2014	15,071.00	89.10	359.10	8,718.35	7,001.81	MS
8/7/2014	15,166.00	89.80	359.80	8,719.26	7,096.81	MS
8/7/2014	15,261.00	90.00	359.30	8,719.43	7,191.81	MS
8/7/2014	15,356.00	90.80	360.00	8,718.76	7,286.80	MS
8/7/2014	15,452.00	91.60	0.80	8,716.75	7,382.78	MS
8/7/2014	15,547.00	90.90	1.10	8,714.68	7,477.76	MS
8/7/2014	15,642.00	91.00	1.10	8,713.11	7,572.74	MS
8/7/2014	15,737.00	89.30	1.80	8,712.86	7,667.74	MS
8/7/2014	15,833.00	89.70	1.80	8,713.70	7,763.74	MS
8/7/2014	15,928.00	90.40	1.80	8,713.61	7,858.73	MS
8/7/2014	16,023.00	88.30	2.10	8,714.69	7,953.72	MS

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-14 12H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
8/7/2014	16,118.00	88.30	2.00	8,717.51	8,048.68	MS
8/7/2014	16,213.00	88.50	2.40	8,720.16	8,143.64	MS
8/7/2014	16,308.00	88.20	1.70	8,722.90	8,238.60	MS
8/7/2014	16,404.00	88.50	3.10	8,725.66	8,334.56	MS
8/7/2014	16,499.00	90.50	3.20	8,726.49	8,429.55	MS
8/8/2014	16,594.00	91.10	3.10	8,725.16	8,524.54	MS
8/8/2014	16,689.00	91.50	2.80	8,723.01	8,619.52	MS
8/8/2014	16,784.00	92.20	3.20	8,719.94	8,714.47	MS
8/8/2014	16,880.00	91.80	3.00	8,716.59	8,810.41	MS
8/8/2014	16,975.00	92.00	2.80	8,713.44	8,905.36	MS
8/8/2014	16,996.00	92.10	3.10	8,712.69	8,926.34	MS
8/8/2014	17,071.00	92.10	3.10	8,709.94	9,001.29	MS