

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

API/UWI 42-461-39152-0000		Property Sub 927711-045		Operator PIONEER NATURAL RESRC USA INC		State TEXAS		County UPTON	
Field Name SPRABERRY (TREND AREA)				Surface Legal Location 10228' FSL / 972' FWL, SEC: 18, BLK: 3, SVY: UNIVERSITY LANDS					
Spud Date 3/15/2014		TD Date 4/19/2014		Drilling Rig Release Date 4/26/2014		Frac Date 7/20/2014		On Production Date	
Ground Elevation (ft) 2,676.00		Original KB Elevation (ft) 2,702.00		PBDT (All) (ftKB)		Total Depth (All) (ftKB) Original Hole - 18,950.0		Total Depth All (TVD) (ftKB) Original Hole - 8,889.1	
Report #: 1 Daily Operation: 3/15/2014 06:00 - 3/16/2014 06:00									
Job Category ORIG DRILLING				Primary Job Type ODR				AFE Number 029578	
Days From Spud (days) 0		Days on Location (days) 1		End Depth (ftKB) 869.0		End Depth (TVD) (ftKB) 869.0		Dens Last Mud (lb/gal) 9.10	
Rig H & P, 606									
<p>Operations Summary</p> <p>Finish preparing rig to skid, Skid over to University 3-19 #45H, Install cellar cover & RU stairs, Slip & cut, Service rig, PU & MU Surface BHA #1 & test, Tagged TOC @ 150', Drill 17-1/2" Surface F/150' - 313', Rack back HWDP & RIH 8" DC's, Drill 17-1/2" Surface F/313' - 869'</p> <p>Remarks</p> <p>Progress: 0.44 days from rig accepted (3/15/2014 @ 19:30 hrs)</p> <p>Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March</p> <p>Completion Percentage: Surface: 70% Intermediate: 0% Curve: 0% Lateral: 0%</p> <p>Line Proximity: 1' Left, 1' Above of Directional line #1</p> <p>Estimated Pad Drilling Completion date: June 1, 2014</p>									
Time Log Summary									
Operation	Com								Dur (hr)
SAFETY	PJSM with rig crew and Pioneer Reps on location. Perform walk around to ensure rig equipment is ready to skid.								2.5
SKID	Skid H&P 606 from University 3-19 46H to University 3-19 #45H. Pioneer Rep verified that rig was level and centered.								1.5
SKID	Install cellar cover over University 3-19 46H and University 3-19 45H. R/U reserve pit pumps to circulate cellar while drilling surface. R/U stairs from rig floor to ground and rig floor to flow line skid. R/U high pressure mud lines. Rig ready to pickup dirctional tools								3
CUTDL	Slip and cut 119' of drilling line								1.5
RIGSER	Service Rig & top drive.								0.5
	Notified TRRC of time for Surface Cement, Spoke with Seney operaator # 51 @ 14:05 hrs 3/15/14.								
BHA	Gather up directional tools & prepare to pick up surface BHA								1
BHA	PJSM with rig crew and Pioneer Rep. Make up bit & directional tools, scribe & test motor, pulsing good. Make up BHA & tag TOC at 150', test MWD tool.								3.5
DRL	Rotate Drill 17-1/2" Surface Section 163' @ 46.6'/hr, 120-130 spm, 460-498 gpm, 150-300 diff, 25-40 top drive rpm, 37-40 motor rpm, 62-80 total bit rpm, 15k-18k wob, 6-10k torque. Avg MSE- 3.1. Full returns to surface.								3.5
	Drilling with 2 stands of HWDP inplace of 8" DC's.								
	Note: By contract accepted rig at spud 3-15-14 @ 19:30 hrs								
BHA	Rack back 2 stands HWDP, P/U 6 (2 stands) - 8" Drill collars & XO.								1.25
DRL	Rotate Drill 17-1/2" Surface Section 556' @ 96.7'/hr, 130-140 spm, 498-536 gpm, 200-400 diff, 40-50 top drive rpm, 40-43 motor rpm, 80-93 total bit rpm, 15-20K wob, 9-11k torque. Avg MSE - 3.5. Full Returns to surface.								5.75
	Note: Installed Corrosion ring on 1st stand of HWDP. Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.								
Report #: 2 Daily Operation: 3/16/2014 06:00 - 3/17/2014 06:00									
Job Category ORIG DRILLING				Primary Job Type ODR				AFE Number 029578	
Days From Spud (days) 1		Days on Location (days) 2		End Depth (ftKB) 1,220.0		End Depth (TVD) (ftKB) 1,220.0		Dens Last Mud (lb/gal) 9.00	
Rig H & P, 606									
<p>Operations Summary</p> <p>Drilled Surface Hole to TD @ 1,220', Circ, POOH, L/D Motor, R/U Casing crew, Run 13-3/8" Surface casing to 1,211', Circ, R/U Cementers, Cement Surface Casing, R/D Cementers, Cut Casing 52" below GL, Weld wellhead.</p> <p>Remarks</p> <p>Progress: 1.44 days from rig accepted (3/15/2014 @ 19:30 hrs)</p> <p>Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March</p> <p>Completion Percentage: Surface: 100% Intermediate: 0% Curve: 0% Lateral: 0%</p> <p>Line Proximity: 1' Left, 1.8' Above of Directional line #1</p> <p>Estimated Pad Drilling Completion date: June 1, 2014</p>									

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL	<p>Rotate Drill 17-1/2" Surface Section 347' @ 77'/hr, 130-140 spm, 498-536 gpm, 200-400 diff, 40-50 top drive rpm, 40-43 motor rpm, 80 -93 total bit rpm, 15-20K wob, 9-11k torque. Avg MSE - 3.5. Full Returns to surface.</p> <p>TD Surface Section @ 1,220' on 3-16-14 @ 10:30 hrs</p> <p>Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.</p>	4.5
CIRC	Pump 2 x 50 BBL h-vis (80) sweep w/ 10 ppb nut plug around to clean hole at TD, in prep to POOH and run 13 3/8" casing.	1.5
TOOH	PJSM TOOH: TOOH to run 13 3/8" 48 ppf J-55 STC Surface Casing. POOH 2 stands of DP, 6 stands & double of HWDp w/ X/O sub. PJSM laying down tools & breaking bit: Lay down stabilizer, and break bit off. Lay down shock sub, & rack back monels. Stand back 2 stand of 8" DC's, in derrick.	3.75
CASE	Prepare floor to run casing.	0.5
SAFETY	Review JSA. Rig up casing crew.	1.75
CASE	Make up 13-3/8" 48 ppf J-55 STC Float Collar w/ Texas Pattern Guide Shoe, 1 Jt of 13-3/8" 48 ppf J-55 STC casing, 13-3/8" 48 ppf J-55 float collar & 1 Jt of 13-3/8" 48 ppf J-55 STC casing, Torque - 4,300 ft/lbs. Thread locked all threads in shoe track, including the joint on top of float collar & test- Good.	1
CASE	<p>RIH w/ 13-3/8" 48 ppf J-55 STC Casing F/86' - 1,211'. Filling every 10 jts. Opt Torque - 4,300. Hole taking proper fill. Place centralizers on mid jt w/ stop ring on shoe track jt, 5' above float collar, & 1 every 4 jt to 200' MD.</p> <p>Shoe depth: 1,211' md.</p> <p>Float Collar depth: 1,166.81' md.</p> <p>Shoe track length: 44.19'</p> <p>Bow Spring Centralizers: 7</p>	2.5
CIRC	<p>Rig down Express casing crew & install Schlumberger cement swage, circulate & wash to bottom. 13 3/8" Casing shoe at 1,211', Circ 8 Bpm at 350 psi. Full Returns to surface.</p> <p>Cementers arrived on location @ 23:30 hrs.</p>	3
CMT	PJSM with H&P crew, Schlumberger & Pioneer Representative over cementing 13-3/8" Surface casing. Rig down swage & rig up cementing head, load top plug with tattle tail witnessed by Pioneer Rep, Schlumberger supervisor & tool pusher.	0.5
CMT	<p>Schlumberger cement 13-3/8" 48 ppf J-55 STC Surface Casing as follows:</p> <p>Pressure test lines to 3500 psi.</p> <p>20 bbls 8.33 lb/gal of fresh water spacer.</p> <p>Lead Cement 583 sks (198.5 bbl) of class "C" cement with 5 % BWOW NaCl, D035 @ 29.4#/SkWBWOB, D020 Extender, 3.0% mixed @ 12.8 lb/gal, 1.91 ft3/sk yield, 10.431 gal/sk mixing H2O.</p> <p>Tail Cement 386 Sk (116.5 BBL) of Class "C" Cement with D020 Extender @ 3.0 % BWOB, S001 CaCL2 @ 2.0 % BWOB, Mixed at 13.6 ppg, 1.70 ft3/sk Yield, 8.871 gal/Sk mixing water.</p> <p>Drop top plug with tattle tail.</p> <p>Displace cement with 184 bbls of 8.33 ppg fresh water. Displaced final 10 bbls at 2.2 bpm and DID NOT bump plug, final lift pressure of 380 psi. Floats held, bled back 1.25 bbls</p> <p>Circulated 80 bbls (236 sks) cement back to surface.</p> <p>Lift Pressures: 50 bbls - 5.8 bpm, 205 psi; 75 bbls- 5.8 bpm, 275 psi; 100 bbls - 4.3 bpm, 230 psi; 125 bbls- 4.3 bpm, 285 psi; 150 bbls - 4.3 bpm, 329 psi; 180 bbls- 2.3 bpm, 305 psi; 184 bbls- 2.3 bpm, 352 psi; 187 bbls- 2.3 bpm, 380 psi</p>	3
CMT	Rig down cementers and jet out cellar with trash pump	0.75
WLHEAD	Check for gas contents all good. Cut off conductor, perform rough cut on 13-3/8" casing. Make final cut on 13-3/8" casing 52" below ground level top of well head @ 18" below GL (measurement confirmed by PNR representative, welder, and Seaboard representative). Weld wellhead on casing and then test well head to 370 PSI.	1.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 3 Daily Operation: 3/17/2014 06:00 - 3/18/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
2	3	1,300.0	1,300.0	9.00	H & P, 606	

Operations Summary

Finish installing wellhead & test, NU BOPE & test, Install flow line, Install wear bushing & perform accumulator test, PU & MU Intermediate BHA & test, Service Rig, Drill Cement & Surface shoe track, Drill 12-1/4" Intermediate Section F/1,220' - 1,300'

Remarks

Progress: 2.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 1% | Curve: 0% | Lateral: 0%

Line Proximity: 1' Left, 1.8' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
WLHEAD	Check for gas contents all good. Cut off conductor, perform rough cut on 13-3/8" casing. Make final cut on 13-3/8" casing 52" below ground level top of well head @ 18" below GL (measurement confirmed by PNR representative, welder, and Seaboard representative). Weld wellhead on casing and then test well head to 370 PSI.	2.5
SAFETY	PJSM Nipple up BOP's w/ Pioneer company man, rig crew & ETS nipple up crew.	0.5
NU/TEST	Nipple up, Drilling spool, BOP's, & Bell nipple. Nipple up Choke & Kill lines, Koomey lines & flow line. Also, perform top job.	2.75
NU/TEST	Test BOP's & choke equipment 250 Low 5 min. / 3,500 High 5 min. Test TDS, stand pipe to pumps 250 Low 5 min / 4,500 High 5 min. Test casing to 1500 for 30 minutes - Good.	3.25
NU/TEST	Install flow line, R/D casing bales & elevators, R/U Drig bales & elevators.	4
WLHEAD	Load directional BHA on to pipe racks while Installing long wear bushing and lock down in place. Install mouse hole. Note: Perfrom Accumulator test @ 20:30hrs on 3/17/14.	2
BHA	PJSM on picking up directional tools, discuss tool sequence with driller and crew. PU 7/8 lobe 4.0 stage Adj. mud motor set @ 1.76° with 11.75" Stabilizer (.16 rev/gal). PU shock sub and UBHO (orient UBHO). MU NMDC and install MWD. Shallow test directional tools (good test). PU and make up 12 1/4" Smith MDSi716 PDC bit (0.994 TFA). MU top NMDC. RIH w/ (9) 8" DC's	2.5
RIGSER	Service Rig, strap & caliber 8" DC & jars	0.75
BHA	PU (3) 8" DC's & RIH, RIH w/ 15 jts HWDP, PU jars & RIH, RIH w/ 5jts HWDP. Tagged @ 1,080'.	1.75
TEST CSG/DRILL OUT/FIT	Drill cement shoe track F/1,163' - 1,211', 140 spm, 536 gpm, 25 top drive rpm, 86 motor rpm, 111 total bit rpm, 1100 psi. Full returns to surface. Float Collar @ 1,166' Float Shoe @ 1,211'	2.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 80' @ 53.3/1Hr, 140 spm, 536 gpm, 1,350 spp, 200-300 diff psi, 30 top drive rpm, 86 motor rpm, 116 total bit rpm, 10-20k wob, 5-7k ft/lbs trq. Avg MSE- 5.3. Full returns to surface.	1.5

Report #: 4 Daily Operation: 3/18/2014 06:00 - 3/19/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
3	4	3,505.0	3,504.7	9.00	H & P, 606	

Operations Summary

Drill 12-1/4" Section F/1,300' - 2,559', Service Rig, Drill Intermediate F/2,559' - 3,505'

Remarks

Progress: 3.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 32% | Curve: 0% | Lateral: 0%

Line Proximity: 4' Right, 1' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 597' @ 126/hr, 200 spm, 764 gpm, 2,500 spp, 400-500 diff psi, 80 top drive rpm, 122 motor rpm, 202 total bit rpm, 30-33k wob, 9-12k ft-lbs trq. Avg MSE- 9.5. Full returns to surface. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps (50-60) w/10 ppb nut plug as needed.	4.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 15' @ 30'/hr @ 300 R GTF, 200 spm, 764 gpm, 15k WOB, 2,250 spp, 200 psi diff, 122 total bit rpm. Full returns to surface.	0.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 647' @ 117.6'/hr, 450-650 diff psi, Avg MSE- 10.5. Full returns to surface. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.	5.5
RIGSER	Service Rig	0.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 288' @ 104.7'/hr, 200 spm, 764 gpm, 2750 spp, 400-500 diff psi, 80 top drive, 1422 motor rpm, 202 total bit rpm, 30-33K wob, 10-12k ft-lbs trq, Avg MSE- 9.8. Full Returns to surface. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.	2.75
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 25' @ 50'/hr @ 250 MTF, 200 spm, 764 gpm, 15k WOB, 2,250 spp, 250 psi diff, 122 total bit rpm. Full returns to surface.	0.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 63' @ 63'/hr, 450-600 diff psi. Avg MSE- 9.8. Full returns to surface. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.	1
DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 20' @ 40'/hr @ 220 MTF, 200 diff psi. Full returns to surface.	0.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 171' @ 62.2'/hr, 450-600 diff psi. Avg MSE- 9.9. Full returns to surface. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.	2.75
DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 25' @ 50'/hr @ 95 MTF, 260 diff psi. Full returns to surface.	0.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 354' @ 74.5'/hr, 450-600 diff psi. Avg MSE- 10.2. Full returns to surface. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.	4.75

Report #: 5 Daily Operation: 3/19/2014 06:00 - 3/20/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
4	5	4,797.0
		End Depth (TVD) (ftKB)
		4,796.7
		Dens Last Mud (lb/gal)
		9.00
		Rig
		H & P, 606

Operations Summary

Drill 12-1/4" Section F/3,505' - 4,797'

Remarks

Progress: 4.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 50% | Curve: 0% | Lateral: 0%

Line Proximity: 8' Right, 2' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 724' @ 60.3'/hr, 200 spm, 764 gpm, 2800 spp, 450 diff psi, 60-80 top drive, 122 motor rpm, 202 total bit rpm, 30-35K wob, 11-13k ft-lbs trq, Avg MSE- 11-14.5. Full Returns to surface. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.	12
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 568' @ 47.3'/hr, 140- 210 spm, 536- 804 gpm, 3000 spp, 250-400 diff psi, 50-80 top drive, 85-128 motor rpm, 135-208 total bit rpm, 35-43K wob, 9-12k ft-lbs trq, Avg MSE- 12-14.5. Full Returns to surface. Ratty formation. ROP ranges from 35'/hr - 120'/hr. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.	12

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 6 Daily Operation: 3/20/2014 06:00 - 3/21/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
5	6	5,742.0	5,741.6	9.10	H & P, 606

Operations Summary
Drill 12-1/4" Section F/4,797' - 4,828', Displace with WBM, TOO H F/4,828' - BHA, LD motor & bit, Inspect wear bushing, PU & MU BHA #3 & test, TIH T/1,332', Service Rig, TIH F/1,332' - 4,828', Drill 12-1/4" Section F/4,828' - 5,742'

Remarks

Progress: 5.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 64% | Curve: 0% | Lateral: 0%

Line Proximity: 6' Right, 7' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 31' @ 31'/hr, 210 spm, 804 gpm, 3000 spp, 250-400 diff psi, 80 top drive, 128 motor rpm, 208 total bit rpm, 41-43K wob, 9-10k ft-lbs trq, Avg MSE- 14.5. Full Returns to surface. Ratty formation. Note: Pumping soap & SAPP sticks every other connection & pumping 1.5 gal of Stardrill AP down DP on off connections. Pumping hi-vis sweeps w/10 ppb nut plug as needed.	1
CIRC	Circ Displacing Brine water with 8.9 ppg Gel Mud, Hole Capacity was 652 BBL (7168 strokes), Pumped a total of 1,309 BBL (14390 strokes) before Gel to surface, Hole has 157% Wash Out	3
TOOH	Pump slug & TOO H with trip tank for new motor & bit. Rack back 39 stands of DP, HWDP, DC's & Monels. Lay down jars, motor & bit. Note: Tripped out on a double. Tripping out of hole due to low ROP.	4
WLHEAD	Pull & inspect wear bushing - no wear. Re-install wear bushing. Note: Function test BOPE.	0.5
BHA	PU motor install MWD, Shallow test same. PU & MU 12-1/4" Security MM75D (0.773 TFA) .	1.5
TIH	TIH with BHA #3 to 1,332' w/ trip tank. Test MWD again with max drilling parameters to make sure everything syncs up & is working properly - Good.	2
RIGSER	Servive Rig	0.5
TIH	TIH with BHA #3 w/ trip tank. F/1,332' - 4,828', washed last stand to bottom. Hole displacing properly.	2
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 472' @ 118'/hr, 190 spm, 727 gpm, 3000 spp, 450-600 diff psi, 80 top drive, 116 motor rpm, 196 total bit rpm, 25-27K wob, 10-12k ft-lbs trq, Avg MSE- 6.5. Full Returns to surface. Note: Pumping hi-vis sweeps w/10 ppb nut plug as needed.	4
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 15' @ 30'/hr @ 30 MTF, 190 spm, 727 gpm, 20k WOB, 2,810 spp, 300 psi diff, 116 total bit rpm. Full returns to surface.	0.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 270' @ 90'/hr, 180-190 spm, 689-727 gpm. Avg MSE- 6.5. Full Returns to surface. Note: Pumping hi-vis sweeps w/10 ppb nut plug every stand to clean up hole.	3
DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 10' @ 40'/hr @ 150 MTF, 350 diff. Full returns to surface.	0.25
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 147' @ 84'/hr, 160 spm, 612 gpm, 80 top drive rpm, 98 motor rpm, 178 total bit rpm. Avg MSE- 6.7. Full Returns to surface. Note: Pumping hi-vis sweeps w/10 ppb nut plug every stand to clean up hole. Lowered parameters to help clean hole & to help with the seepage.	1.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 7 Daily Operation: 3/21/2014 06:00 - 3/22/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 029578	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
6	7	7,315.0	7,314.5	9.00	H & P, 606	

Operations Summary
Drill 12-1/4" Section F/5,742' - 6,529', Service Rig, Drill 12-1/4" Section F/6,529' - 7,315'

Remarks

Progress: 6.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 86% | Curve: 0% | Lateral: 0%

Line Proximity: 2' Left, 2' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 221' @ 68'/hr, 160 spm, 575 gpm, 2600 spp, 350-500 diff psi, 80 top drive, 98 motor rpm, 178 total bit rpm, 15-23K wob, 10k ft-lbs trq, Avg MSE- 6.5. Slight losses on Returns to surface. Note: Pumping hi-vis sweeps w/10 ppb nut plug & 10 ppb tiger bullets every stand to help clean-up hole.	3.25
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 15' @ 20'/hr @ 160 MTF, 150 spm, 577 gpm, 24k WOB, 2050 spp, 240 psi diff, 98 total bit rpm. Hole taking 5 bph on returns to surface.	0.75
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 79' @ 63.2/hr, 150 spm, 575 gpm, 1995 spp, 215 diff psi, 80 top drive, 92 motor rpm, 172 total bit rpm, 23-24K wob, 8.5k ft-lbs trq, Avg MSE- 7.5. Full Returns to surface. Control drilling, pump & dump to lower mud wt. Note: Pumping hi-vis sweeps w/10 ppb nut plug & 10 ppb tiger bullets every stand to help clean-up hole. Lowered pump rates due to getting mud weight down & controlling losses.	1.25
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 15' @ 15'/hr @ 160 MTF, 150 spm, 577 gpm, 15k WOB, 2000 spp, 200 psi diff, 98 total bit rpm. Full Returns to surface. Control drilling pump & dump to lower mud wt.	1
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 363' @ 96.8'/hr, 180 spm, 727 gpm, 3020 spp, 425 diff psi, 80 top drive, 116 motor rpm, 196 total bit rpm, 24-26K wob, 14k ft-lbs trq, Avg MSE- 7.5. Full Returns to surface. Note: Pumping hi-vis sweeps w/10 ppb nut plug & 10 ppb tiger bullets every stand to help clean-up hole.	3.75
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 13' @ 26'/hr @ 180 MTF, 150 spm, 577 gpm, 15k WOB, 2000 spp, 200 psi diff, 98 total bit rpm. Full Returns to surface. Control drilling pump & dump to lower mud wt.	0.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 81' @ 81'/hr, 180 spm, 727 gpm, 3020 spp, 425 diff psi, 80 top drive, 116 motor rpm, 196 total bit rpm, 24-26K wob, 14k ft-lbs trq, Avg MSE- 7.5. Hole is taking roughly 5 bph Returns to surface. Note: Pumping hi-vis sweeps w/10 ppb nut plug & 10 ppb tiger bullets every stand to help clean-up hole.	1
RIGSER	Service Rig	0.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 281' @ 70.3'/hr, 160 spm, 612 gpm, 2300 spp, 360 diff psi, 80 top drive rpm, 98 motor rpm, 178 total bit rpm, 20-25k wob, 10-14k ft/lbs trq. Avg MSE - 7.2. Full Returns to surface. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to help with losses & keeping the hole clean. Lowered ROP & gpm to 612, not seeing any losses at this time. Dumping sand trap as needed to help keep MW down.	4
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 245' @ 61.3'/hr, Avg MSE - 7.2. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to help with losses & keeping the hole clean. Dumping sand trap as needed to help keep MW down. Lowered ROP to help with cleaning the hole.	4
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 260' @ 65'/hr, 170 spm, 651 gpm, 2450 spp, 350 diff psi, 80 top drive rpm, 104 motor rpm, 184 total bit rpm, 25-30k wob, 12-14k ft/lbs trq. Avg MSE - 7.0. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to help with losses & keeping the hole clean. Dumping sand trap as needed to help keep MW down. Brought gpm up to 651.	4

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 8 Daily Operation: 3/22/2014 06:00 - 3/23/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
7	8	8,133.0	8,131.3	9.00	H & P, 606		

Operations Summary
Drill 12-1/4" Section F/7,315' - 7,755', Service Rig, Drill 12-1/4" Section F/7,755' - 8,133'

Remarks

Progress: 7.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 97% | Curve: 0% | Lateral: 0%

Line Proximity: 1' Left, 8' Ahead of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 251' @ 66.9'/hr, 170 spm, 651 gpm, 2600 spp, 450 diff psi, 80 top drive rpm, 104 motor rpm, 184 total bit rpm, 25-30k wob, 11.5-12.5k ft/lbs trq. Avg MSE - 7.9. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to help with losses & keeping the hole clean. Dumping sand trap as needed to help keep MW down.	3.75
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 24' @ 12'/hr @ 180° MTF, 170 spm, 650 gpm, 18k WOB, 2300 spp, 250 psi diff, 104 total bit rpm. Full Returns to surface. Dumping sand trap to help control mud wt.	2
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 71' @ 56.8'/hr, 190 spm, 727 gpm, 7640 spp, 460 diff psi, 80 top drive rpm, 116 motor rpm, 196 total bit rpm, 25-30k wob, 14-16k ft/lbs trq. Avg MSE - 8.5. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to help with losses & keeping the hole clean. Dumping sand trap as needed to help keep MW down.	1.25
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 30' @ 15'/hr @ 180° MTF, 190 spm, 727 gpm, 18k WOB, 2550 spp, 200 psi diff, 116 total bit rpm. Full Returns to surface. Note: Start building 1° per 100' @ 7,601' TVD.	2
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 64' @ 85.3'/hr, Avg MSE - 8.5. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to keep the hole clean. Dumping sand trap as needed to help keep MW down.	0.75
RIGSER	Service Rig	0.5
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 22' @ 17.6'/hr @ 180° MTF, 190 spm, 727 gpm, 18k WOB, 2550 spp, 200 psi diff, 116 total bit rpm. Full Returns to surface.	1.25
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 72' @ 72'/hr, Avg MSE - 8.7. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to keep the hole clean. Dumping sand trap as needed to help keep MW down.	1
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 22' @ 11'/hr @ 180° MTF, 190 spm, 727 gpm, 18k WOB, 2550 spp, 190 psi diff, 116 total bit rpm. Full Returns to surface.	2
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 72' @ 48'/hr, Avg MSE - 9.0. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to keep the hole clean. Dumping sand trap as needed to help keep MW down.	1.5
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 30' @ 9.2'/hr @ 180° MTF, 190 spm, 727 gpm, 18k WOB, 2550 spp, 120 psi diff, 116 total bit rpm. Full Returns to surface.	3.25
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 66' @ 52.8'/hr, Avg MSE - 8.8. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to keep the hole clean. Dumping sand trap as needed to help keep MW down.	1.25
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 30' @ 13.3'/hr @ 180° MTF, 190 spm, 727 gpm, 18k WOB, 2550 spp, 100 psi diff, 116 total bit rpm. Full Returns to surface.	2.25
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 64' @ 51.2'/hr, Avg MSE - 8.3. Full Returns to surface. No losses at this time. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to keep the hole clean. Dumping sand trap as needed to help keep MW down. Will begin conditioning mud @ 8,200' to get ready for running casing.	1.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 9 Daily Operation: 3/23/2014 06:00 - 3/24/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
8	9	8,340.0	8,337.1	9.00	H & P, 606	

Operations Summary
Drill 12-1/4" Section F/8,133' - 8,340' TD, Circulate & Condition mud, POOH for Short trip to 1,211' (Surface Shoe), TIH to 8,340' - No problems, Service Rig, Circulate, TOO (SLM) and rack back DP

Remarks

Progress: 8.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

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

Line Proximity: 2' Left, 11' Ahead of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL-SLIDE	Slide Drill 12 1/4" Intermediate Section 30' @ 6.7/hr @ 180° MTF, 190 spm, 727 gpm, 19k WOB, 2450 spp, 150 psi diff, 116 total bit rpm. Full Returns to surface.	3.5
DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 177' @ 59/hr, Avg MSE - 12.8. Full Returns to surface. No losses at this time. YP- 10, API FL- 11.8. Note: Pumping hi-vis sweeps w/ 10 ppb nut plug & 10 ppb tiger bullets every connection to keep the hole clean. Dumping sand trap as needed to help keep MW down. TD Intermediate Hole at 12:30 hrs on 3/23/14, 8,340' MD, 8,336' TVD.	3
CIRC	Circ. 2 x 80 bbl sweeps of 80 vis 9.0 wt w/15 ppb nut plug LCM. Circ till shakers clean.	2.25
TOOH	Short Trip, pump 30 bbl 2ppb over slug POOH F/8,340' T/1,210' to HWDP. Hole taking proper fill. Note: Unable to pull through tight spot @ 7,454' w/80K over pull. Work thorough tight spot 20 rpm & 30K, .Continue TOO (SLM) with normal drag.	3.75
TIH	TIH, fill pipe every 2000', Wash last stand down to 8340'. No fill, No hole problems. Note: @ 1,338' brought pumps online to make sure directional synced up. 160 spm, 612 gpm, 1,300 spp.	4
RIGSER	Service Rig & build hi-vis sweeps	0.5
CIRC	Circ. 2 X 50 bbl sweeps 10 min apart of 80 vis 9.0 wt, condition mud w/ YP 10, PV 10, FL 11.6, Pumped till Shakers cleaned up, Full returns, Calculations shows roughly 47% Washout. (Surface to surface stks - 12,600, sweep around 18,500 stk) Note: 1 sweep around with minimal cuttings, 2nd sweep very few cuttings. Circulated an extra BU until shakers were clean.	3.5
TOOH	TOOH (SLM) F/8,340' - 1,200'. No drag, Proper fill, Came out of Hole on a single. Racking back DP in derrick.	3.5

Report #: 10 Daily Operation: 3/24/2014 06:00 - 3/25/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
9	10	8,340.0	8,337.1	9.00	H & P, 606	

Operations Summary
TOH (SLM) F/ 1,200' - BHA, L/D BHA #4, Pull Wear Bushing, R/U CRT & Csg. Equip., M/U & P/U 2 Jt. Shoe track & test same, RIH 9-5/8" Csg. to 1,072', Service Rig, RIH 9-5/8" Csg. F/ 1,072' to 6,733'

Remarks

Progress: 9.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

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

Line Proximity: 2' Left, 11' Ahead of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
TOOH	TOOH (SLM) F/1,200' - BHA. No drag, Proper fill,. Rack back HWDP & L/D Jars, PU jt of HWDP in its place.	1.5
BHA	L/D BHA #3 (DC's, monels, shock sub, motor & bit). Bit grade: 1,2,CT,I,BT & TD one chipped & one broken cutter in gauge row, bit is in gauge.	2.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
WLHEAD	Verify wear bushing lockdown pins are backed out. Pull wear bushing. 35K overpull. P/u wash sub and wash well head. L/d wash sub and single jnt of drill pipe. Verify hole was full and close blind rams. Note: Function test BOPE on 3/24/14 at 12:15hrs	2
CASE	JSA with H&P rig crew & PNR representative over rigging up CRT. P/U & R/U H&P CRT & Casing equipment.	2.25
CASE	M/U float shoe onto 2 joint shoe track of 9 5/8" 43.5 lb/ft L80 IC BTC Casing. M/U float collar. M/U 1 joint of casing on top of float collar. Thread lock all threads in shoe track, including the joint on top of float collar. Fill up and test floats (Good).	1.5
CASE	Run casing w/ CRT tool @ 45 ft/min F/Surface - 1,072' (23 joints of 43.5 lb/ft) torqued to 9,000 ft/lbs. Hole displacing properly and have 20 - 25% flow on each joint ran. Note: Hand caliper the ID of 10 jts of 43.5 lb/ft casing - 8.75.	2
RIGSER	Service Rig & CRT	0.5
CASE	Run 9-5/8" 43.5 lb/ft L80 IC BTC CSG W/CRT @ 45 FPM, F/1,072' - 2,332', (50 Jts.). AVG Tq. 9000 ft/lbs. Hole displacing properly and have 20 - 25% flow on each joint ran. Note: @ 1,307' start washing casing @ 2-3 bpm (33 spm) to Bttm per Drlg Prog. Circ. B/U @ 2,144' (full returns). Before entering salt zone.	3
CASE	C/O Dies in CRT & Elevators to Run 9-5/8" 40.0 lb/ft L80 IC BTC	0.75
CASE	Run 9-5/8" 40.0 lb/ft L80 IC BTC CSG W/CRT @ 45 FPM, F/2,332' - 6,733', (51 Jts. R/W & 44 Jts. Slick CSG) AVG Tq. 9000 ft/lbs. Hole displacing properly and have 20 - 25% flow on each joint ran. Note: Washing casing @ 2-3 bpm (33 spm), brk circulation @ 3,610', CBU (full returns) w/7 bpm @ 4,883'. Contacted Pam @ TRRC on 3/25/2014 @ 03:40 Hrs, Gave notification of cementing 9-5/8" casing.	7.75

Report #: 11 Daily Operation: 3/25/2014 06:00 - 3/26/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
10	11	8,340.0
		End Depth (TVD) (ftKB)
		8,337.1
		Dens Last Mud (lb/gal)
		9.00
		Rig
		H & P, 606

Operations Summary

Run 9 5/8" casing F/6,823' - 8,334' (MD), Circulate, Cement 9 5/8" casing, Packoff 9 5/8", Install wear bushing, P/U & M/U Curve BHA, TIH T/5,953'

Remarks

Progress: 10.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

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

Line Proximity: 2' Left, 11' Ahead of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
CASE	Run 9-5/8" 40.0 lb/ft L80 IC BTC CSG W/CRT @ 45 FPM, F/6,823' - 8,300', (33 Jts. Slick CSG) AVG Tq. 9000 ft/lbs. Hole displacing properly and have 20 - 25% flow on each joint ran. Note: Washing casing @ 2-3 bpm (33 spm)	3.5
CASE	P/U & M/U landing joint & hanger, RIH F/8,300' - 8,334'. Hanger landed @ 10:30am, confirmed by Seaboard Rep & Pioneer Representative. Note: Ran bow spring centralizers on stop rings in the middle of each joint on two joint shoe track. Ran bow spring centralizer 5' above float collar on stop ring. Running bow spring centralizers every third joint until reaching 3,000' TVD. Shoe depth: 8,334' md. Float Collar depth: 8,238' md. Shoe track length: 95.38' Bow Spring Centralizers: 40	1
CIRC	Circulate 1 casing volume (620 bbls) with 6770 strokes @ 3 bpm @ 85 psi, W/ full returns F/30 bbls. Increase rate to 4 bpm @ 100 psi, W/ full returns F/240 bbls. Increase rate to 5 bpm @ 115 psi, W/ full returns F/ bbls. Cementers arrived at 07:00 am.	2.5
SAFETY	R/U Schlumberger Cement, hold safety meeting with rig crew, cementers, and PNR representatives over cement operations. Verify loading of bottom & top plug by both company men, rig manager & Schlumberger supervisor.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CMT	<p>Schlumberger cement 9 5/8" Intermediate casing as follows:</p> <p>Pressure test cement lines to 4500 psi</p> <p>Drop bottom plug</p> <p>40 bbls 10 lb/gal MUDPUSH Express. Mixed with 10.00 lb/bbl BW/V. MUDPUSH Express B389, 0.200 gal/bbl Anti foam Spacer D206, 2182.3 lb/mgal Weighting Agent D031.</p> <p>963 sk 382 bbl, 11.5 lb/gal TXI Slurry, 2.23 yield. Mixed with 12.740 gal/sk H2O (292.11 bbls), 75 lb/sk cement D049, 0.4% fluid loss D167, 7.0% extender D020, 0.1% Dispersant D065, 0.2% Anti foam D046, 0.3% Retarder D013, 5 lb/sk Extender D042, and 0.1 lb/sk Lost circulation control agent D130.</p> <p>211 sk 40 bbl, 16.4 lb/gal Tail Tack Slurry, 1.07 yield. Mixed with 4.364 gal/sk H2O (22 bbls), 94 lb/sk Cement (H), 0.3% Anti foam D046, 0.2% Retarder D013, 0.2% Dispersant D065.</p> <p>Drop top plug.</p> <p>Displaced cement with 615 bbls of 8.32 ppg Fresh Water w/ 0.084 gal/bbl Green-Cide 25G B244 at 6 bpm. Displaced final 20 bbls at 2.3 bpm. Bump plug with 1925 psi 500 psi over final lift pressure of 1425 psi. Floats held, bled back 6.5 bbls after 5 minutes.</p> <p>Full Returns through out cement job.</p> <p>Lift pressures: 50 bbl- 6.0 bpm 180 psi, 100 bbl- 6.0 bpm 185 psi, 200 bbl- 6.0 bpm 185 psi, 300 bbl- 6.0 bpm 240 psi, 400 bbl- 6.0 bpm 590 psi, 450 bbl- 6.0 bpm 750 psi, 500 bbl- 6.0 bpm 905 psi, 550 bbl- 6.0 bpm 1100 psi, 600 bbl- 3.75 bpm 1250 psi, 610 bbls- 2.3 bpm, 1250 psi, 615 bbls- 2.3 bpm, 1425 psi.</p>	4.5
CMT	Hold JSA on R/D Cementers. Flush and clean cement lines, R/D cementers, wash thru BOP & choke.	1.25
WLHEAD	<p>Back off landing joint, pull out and install running tool and pack off. Run in with pack off and verify good seat (ok). Secure pack off and pack off to 5,000 psi, held pressure for 5 min (ok). Back out landing joint and remove running tool, lay down landing joint.</p> <p>Note: Rig down Dump trough at Shale shakers and set up Closed loop Open tanks, Dress shakers.</p>	1.25
RIGSER	<p>R/D H & P CRT tool and Casing running tools, Clear off rig floor, Service rig and TD.</p> <p>Note: EJSA with Meyers Pit cleaning crew over pit cleaning operations. R/U Stage 3 Solids Control Equipment.</p>	2
WLHEAD	<p>P/U & instal short wear bushing. Pioneer Company man, Tool Pusher & Driller witness derrick man tighten lock down pins. Close well head valve.</p> <p>Note: Pit cleaners finished up @ 23:00 hrs. Function test BOPE on 3/25/14 @ 23:00hrs.</p>	1
BHA	Gather up Curve BHA & caliper. Move HWDP in derrick out of way.	1.25
BHA	<p>PJSM w/directional & rig crew about picking up tools. Pick up directional tools. Pick up mud motor w/ 8" stab FBH, 4/5 7.0 Stage set @ 2° (.49 rev/gal). Make up UBHO to top of motor, Scribe bend up to UBHO. Make up bottom NMDC. Install MWD and confirm good seat. Pick up top flex monel and XO sub to go from XH to IF. Shallow test directional tools w/ 383 gpm, 330 psi (good test). Make up 8 1/2" Halliburton MMD55DM (S/N: 1234485) PDC jetted with 5/22's jets (1.855 tfa).</p> <p>TH Hill job No: 44647, date 3/20/2014</p>	2
TIH	TIH w/ curve assembly F/BHA T/5,953', fill pipe every 30 stands, 26-29% flow on every stand.	3.25

Report #: 12 Daily Operation: 3/26/2014 06:00 - 3/27/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
11	12	8,692.0
		End Depth (TVD) (ftKB)
		8,676.6
	Dens Last Mud (lb/gal)	Rig
	10.80	H & P, 606

Operations Summary
P/U & M/U Curve Assy, TIH to 7,400', P/U DP To 8,222' (TOC), Test Csg To 2560 psi, Drlg Flt. Equip (Shoe@ 8,334') & 10' Formation, FIT to 13 ppg EMW, Disp. W/9.8 ppg OBM, Drill Ahead Rotating and Sliding Building Curve at 8692'

Remarks

Progress: 11.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 40% | Lateral: 0%

Line Proximity: 1' Left, 34' Ahead of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary						
Operation	Com					Dur (hr)
TIH	TIH w/ curve assembly F/5,953' 7,400' , fill pipe every 30 stands, 26-29% flow on evry stand. PU & MU DP F/7,200' - 7,400					2
RIGSER	Service Rig					0.5
TIH	TIH w/ curve assembly F/7,400' - 8,222' (TOC), fill pipe every 30 stands, 26-29% flow on evry stand. PU & MU DP F/7,400' - 8,222'					2
TEST CSG/DRILL OUT/FIT	Fill Pipe & Test casing to 2,560 psi with Rig pump for 30 min. Good- Pressure drop to 2543 psi loosing 17 psi in 30 min.					1
TEST CSG/DRILL OUT/FIT	Drill plug, Cement, Float collar and cement, shoe track and Shoe F/8,238' T/8,334' 9 5/8" Float collar @ 8,238' 9 5/8" Shoe @ 8,334' MD, 8,330' TVD					2
TEST CSG/DRILL OUT/FIT	Wash down to 8,340', Drilled 10' new formation to 8,350' Circulate bottoms up.					1
TEST CSG/DRILL OUT/FIT	Perform FIT at 8,350' MD, with 8.7 ppg water, TVD of 8330' to 1861 psi EMW of 13.0 ppg, Good test.					0.5
CIRC	Displace fresh water with 325 bbl. 9.8 ppg OBM.					0.5
DRL-ROT	OBM is at the bit. Start drilling while finishing displacement. Rotate Drill 8 1/2" Production Hole 58' @ 23.2 ft/hr: 15 k WOB, 30 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, 200 psi Diff, 2300 psi SPP, 8 k TQ. Full returns to surface.					2.5
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Section 12' @ 24/Hr, @ 20R GTF, 150 spm, 574 gpm, 10k WOB, 2,100 spp, 275 psi diff, 287 total bit rpm's. Full returns to surface.					0.5
U_RIG_OT R	Circulate & condition mud to get Mud properties in-line while waiting on Totco Rep. Note: Totco rebooted system & lost all parameters.					1.75
DRL CURVE- ROT	Rotate Drill 8 1/2" Production Hole 83' @ 47.4 ft/hr: 25 k WOB, 50 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 337, 800 psi Diff, 2900 psi SPP, 3-7 k TQ. Full returns to surface.					1.75
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole, 157' @ 25 ft/hr, 15 kWOB, 150 spm, 574 gpm, 287 M MTR rpm, 250 psi Diff, 2933 psi. Full Returns To Surface.					6.5
DRL CURVE- ROT	Rotate Drill 8 1/2" Production Hole 12' @ 90 ft/hr: 30 k WOB, 40 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 400 psi Diff, 3200 psi SPP, 3-7 k TQ. Full returns to surface.					0.25
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole, 20' @ 16 ft/hr, 15 kWOB, 150 spm, 574 gpm, 287 M MTR rpm, 250 psi Diff, 2933 psi. Full Returns To Surface.					1.25
Report #: 13 Daily Operation: 3/27/2014 06:00 - 3/28/2014 06:00						
Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 029578	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
12	13	9,328.0	9,001.9	10.80	H & P, 606	
Operations Summary Drill Ahead Rotating and Sliding Building Curve F/8,692' - 9,328', Circ. Sweeps, TOO H F/Lateral Assy, at 4450'						
Remarks Progress: 12.44 days from rig accepted (3/15/2014 @ 19:30 hrs) Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March Completion Percentage: Surface: 100% Intermediate: 100% Curve: 100% Lateral: 0% Line Proximity: 9' Right, 2' Ahead of Directional line #1 Estimated Pad Drilling Completion date: June 1, 2014						
Time Log Summary						
Operation	Com					Dur (hr)
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 31' @ 31 ft/hr, 16 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 380 psi Diff, 3120 psi. TF=20L. Full Returns To Surface.					0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL CURVE- ROT	Rotate Drill 8 1/2" Production Hole 12' @ 24 ft/hr: 16 k WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 450 psi Diff, 3090 psi SPP, 3-7 k TQ. Full returns to surface.	0.5
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 31' @ 31 ft/hr, 20 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 400 psi Diff, 3120 psi. TF=20L. Full Returns To Surface. Rotated 10' @ 76 ft/hr, 20 WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 405 psi Diff, 3278 psi SPP, 4-6 k TQ	1
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 21' @ 21 ft/hr, 16 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 400 psi Diff, 3160 psi. TF=20L. Full Returns To Surface. Rotated 12' @ 87 ft/hr, 20 WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 510 psi Diff, 3405 psi SPP, 5-6 k TQ	1
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 20' @ 20 ft/hr, 20 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 450 psi Diff, 3248 psi. TF=20L. Full Returns To Surface. Rotated 10' @ 87 ft/hr, 20 WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 515 psi Diff, 3400 psi SPP, 4-6 k TQ	0.5
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 53' @ 20 ft/hr, 20 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 450 psi Diff, 3235 psi. TF=20L. Full Returns To Surface. Rotated 10' @ 77 ft/hr, 17 WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 425 psi Diff, 3220 psi SPP, 3-5 k TQ	2
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 26' @ 20 ft/hr, 20 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 350 psi Diff, 3235 psi. TF=20L. Full Returns To Surface. Rotated 6' @ 101 ft/hr, 18.9 WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 565 psi Diff, 3385 psi SPP, 4-6 k TQ	1
DRL LAT- SLIDE	Slide Drill 8-1/2" Production Hole. 26' @ 20 ft/hr, 20 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 350 psi Diff, 3235 psi. TF=20L. Full Returns To Surface. Rotated 8' @ 101 ft/hr, 18.9 WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 565 psi Diff, 3385 psi SPP, 4-6 k TQ	4
RIGSER	Rig Service	0.5
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 26' @ 20 ft/hr, 20 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 350 psi Diff, 3235 psi. TF=20L. Full Returns To Surface.	5.5
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 21' @ 25.2 ft/hr, 20 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 350 psi Diff, 3235 psi. TF=20L. Full Returns To Surface. Rotated 10' @ 60 ft/hr, 22 WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 327, 535 psi Diff, 3385 psi SPP, 4-7 k TQ	1
DRL CURVE- SLIDE	Slide Drill 8-1/2" Production Hole. 26' @ 26 ft/hr, 22 k WOB, 150 spm, 574 gpm, 287 M MTR rpm, 343 psi Diff, 3190 psi. TF=35L. Full Returns To Surface. Rotated 12' @ 45 ft/hr, 18 WOB, 20 TDS RPM, 150 spm, 574 gpm, 287 MMTR RPM, Total RPM 307, 535 psi Diff, 3385 psi SPP, 4-8 k TQ	1.5
CIRC	Circ 2 30 BBL Heavy wt. Sweeps, around till shaker cleaned up, Pump Slug	2
TOOH	TOOH W/Curve assy, To P/U Lateral assy, Proper fill ups, No Hole Problems at 4450'	3

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 14 Daily Operation: 3/28/2014 06:00 - 3/29/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
13	14	9,550.0	9,005.2	10.90	H & P, 606	

Operations Summary
TOH W/ Curve Assy., R/R Wear bushing (washed bowl), Function test BOPE, C/O BHA, Surface Test Mtr & MWD, TIH W/Lateral Assy.Cut and Slip Drill line, Finish TIH, Drilling Lateral @ 9,550'

Remarks
Progress: 13.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 3%

Line Proximity: 11' Right, 1' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
TOOH	TOOH W/Lateral Assy, F/4450' T/BHA hole taking proper fill. Came out of hole on even stands.	3.5
TOOH	Clean OBM on floor. prior to L/D BHA.	0.5
TOOH	Lay down BHA, bit, & motor. Retrieve MWD tools.	1.5
WEARBUS HING	Pull & Inspect wear bushing, wash seat, & re-install wear bushing. Pioneer rep. witnessed backing out & running in lock down pins.	0.5
TIH	Clear tools and clean rig floor to M/Up BHA. Function test BOP's	0.5
TIH	P/Up BHA MM, Stabilizer, MWD & Bit. Shallow test same. 575 gpm,800 psi (MWD pulsing w/500 psi) = 1300 psi.	2
TIH	TIH W/Lateral Assy. To 8225'	5.5
SAFETY	Held EJSA Critical on dock, slip & cut drlg. line.	0.5
CUTDL	Dock Top Drive, Slip/Cut 11 Wraps (100 ft.) Drlg line, Test crown saver, Recalibrate Top Drive & test high/low travel limits & high/low stop points	2
RIGSER	Rig Service	0.5
TIH	TIH 8,225' to 9,233'	1
WASH_RE AM	Wash F/9,233' - 9,328', Relog Gamma F/9,264' - 9,328'	1
DRL LAT-ROT	Rotate Drill 8 1/2" Production Hole 31' @ 31 ft/hr: 16 k WOB, 60 TDS RPM, 150 spm, 574 gpm, 160 MMTR RPM, Total RPM 220, 300 psi Diff, 3350 psi SPP, 7 k TQ. Full returns to surface.	1
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Hole. 25' @ 50 ft/hr, 20 k WOB, 150 spm, 574 gpm, 160 M MTR rpm, 150 psi Diff, 3360 psi. TF 30 L. Full Returns To Surface.	0.5
DRL LAT-ROT	Rotate Drill 8 1/2" Production Hole 84' @ 42 ft/hr: 20 k WOB, 60 TDS RPM, 150 spm, 574 gpm, 160 MMTR RPM, Total RPM 220, 400 psi Diff, 3500 psi SPP, 9 k TQ. Full returns to surface.	2
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Hole. 20' @ 40 ft/hr, 20 k WOB, 150 spm, 574 gpm, 160 M MTR rpm, 150 psi Diff, 3340 psi. TF 20 L. Full Returns To Surface.	0.5
DRL LAT-ROT	Rotate Drill 8 1/2" Production Hole 62' @ 62 ft/hr: 20 k WOB, 60 TDS RPM, 150 spm, 574 gpm, 160 MMTR RPM, Total RPM 220, 400 psi Diff, 3500 psi SPP, 9 k TQ. Full returns to surface.	1

Report #: 15 Daily Operation: 3/29/2014 06:00 - 3/30/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
14	15	11,085.0	8,993.6	11.00	H & P, 606	

Operations Summary
Drilling & Sliding 8-1/2" Lateral To 11,085', Circulate Sweeps, TOOH F/Bit

Remarks
Progress: 14.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 19%

Line Proximity: 25' Left, 10' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 38' @ 76 ft/hr, 15k WOB, 150 spm, 575 gpm, 161 MMTR rpm, 200 psi Diff, 3390 psi. GTF 45R. Full returns to surface. No losses at this time.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 347' @ 99 ft/hr: 24k WOB, 60 TDS rpm, 150 spm, 570 gpm, 160 MMTR rpm, Total rpm 220, 450 psi Diff, 3500 psi SPP, 10k TQ. Avg MSE - 3.4. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 3rd connection to keep the hole clean.	3.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 26' @ 52 ft/hr, 25k WOB, 150 spm, 575 gpm, 161 MMTR rpm, 250 psi Diff, 3410 psi. GTF 45R. Full returns to surface. No losses at this time.	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 352' @ 117.3 ft/hr: 27k WOB, 60 TDS rpm, 150 spm, 570 gpm, 160 MMTR rpm, Total rpm 220, 480 psi Diff, 3625 psi SPP, 12k TQ. Avg MSE - 3.8. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 3rd connection to keep the hole clean.	3
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 26' @ 52 ft/hr, 25k WOB, 150 spm, 575 gpm, 161 MMTR rpm, 300 psi Diff, 3275 psi. GTF 45R. Full returns to surface. No losses at this time.	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 68' @ 136 ft/hr: 29k WOB, 60 TDS rpm, 150 spm, 570 gpm, 160 MMTR rpm, Total rpm 220, 480 psi Diff, 3625 psi SPP, 13k TQ. Avg MSE - 3.8. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 3rd connection to keep the hole clean.	0.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 30' @ 30 ft/hr, 30k WOB, 150 spm, 575 gpm, 161 MMTR rpm, 311 psi Diff, 3578 psi. GTF 50R. Full returns to surface. No losses at this time.	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 68' @ 68 ft/hr: 29k WOB, 60 TDS rpm, 150 spm, 570 gpm, 160 MMTR rpm, Total rpm 220, 480 psi Diff, 3625 psi SPP, 13k TQ. Avg MSE - 3.8. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 3rd connection to keep the hole clean.	1
RIGSER	Rig Service	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 204' @ 204 ft/hr: 30k WOB, 60 TDS rpm, 130 spm, 498 gpm, 160 MMTR rpm, Total rpm 220, 474 psi Diff, 3253 psi SPP, 13k TQ. Avg MSE - 4.0. Full Returns to surface. No losses at this time. Note: 1 Generator down, backed off flow rate to 498 gpm to maintain power to rig. Note: Pumping 1.5# over hi-vis sweeps every 2nd connection to keep the hole clean.	1.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 32' @ 64 ft/hr, 20k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 160 psi Diff, 2877 psi. GTF 20R. Full returns to surface. No losses at this time.	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 60' @ 175 ft/hr: 30k WOB, 60 TDS rpm, 130 spm, 498 gpm, 160 MMTR rpm, Total rpm 220, 474 psi Diff, 3352 psi SPP, 13k TQ. Avg MSE - 4.0. Full Returns to surface. No losses at this time. Note: Additional time required to circulate sweep out of hole prior to connection and survey. Note: Pumping 1.5# over hi-vis sweeps every 2nd connection to keep the hole clean.	1.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 62 ft/hr, 20k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 180 psi Diff, 3122 psi. GTF 70R. Full returns to surface. No losses at this time.	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 73' @ 125 ft/hr: 30k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, Total rpm 220, 474 psi Diff, 3724 psi SPP, 14k TQ. Avg MSE - 4.0. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 2nd connection to keep the hole clean.	1
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 25' @ 25 ft/hr, 20k WOB, 150 spm, 574 gpm, 160 M MTR rpm, 150 psi Diff, 3820 psi. GTF 30R. Full returns to surface. No losses at this time.	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 188' @ 47 ft/hr: 30k WOB, 60 TDS rpm, 150 spm, 574 gpm, 160 MMTR rpm, Total rpm 220, 450 psi Diff, 3724 psi SPP, 14k TQ. Avg MSE - 4.0. Full Returns to surface. No losses at this time. Note: ROP gradually decreasing to 14 fph over last 3 hours, tried different parameters to make bit drill with no success. MSE spiking erratically last 2 times it was set on bottom.	4
CIRC	Circulate, Perform 2 clean-up cycles	2
TOOH	Pump Slug, TOOH for New Bit and Motor	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 16 Daily Operation: 3/30/2014 06:00 - 3/31/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
15	16	11,330.0	8,981.4	11.10	H & P, 606		

Operations Summary
TOOH F/10,360' T/BHA, L/D motor & bit, inspect wear bushing, P/U & M/U BHA #6 & test, TIH F/BHA T/11,085', and drill 8-1/2" production section F/11,085' T/11330

Remarks
Progress: 15.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 21%

Line Proximity: 21' Left, 2' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
TOOH	TOOH F/10,360' - T/BHA @ 101'. No drag, Proper fill, Came out of hole on a double. Racking back DP in derrick.	5
TOOH	Lay down directional BHA #5. Pull & Inspect wear bushing, wash seat, & re-install wear bushing. Pioneer rep. witnessed backing out & running in lock down pins. Function test BOP's. Organize & clean up OBM off rig floor. Note: Bit Grade, 1/1/WT	2
TIH	P/U BHA #6 Lateral assy: MM, Stabilizer, MWD & Bit. Shallow test same. 497 gpm, 1100 psi (MWD pulsing w/500 psi) = 1600 psi.	2.5
TIH	TIH w/ BHA #6 Lateral assy. F/BHA @ 100' T/8221', fill pipe every 30 stands, 28 - 31% flow on every stand. Hole displacing correctly.	4.5
RIGSER	Rig Service	0.5
TIH	TIH w/ BHA #6 Lateral assy. F/8,221' T/10,952', 26-28% flow on every stand.	2
WASH_REAM	Wash & Ream F/10,952' - 11,085' (Re-Log Gamma 11,044' - 11,085')	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 193' @ 43 ft/hr: 20k WOB, 60 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, Total rpm 210, 300 psi Diff, 3650 psi SPP, 12k TQ. Avg MSE - 4.0. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 2rd connection to keep the hole clean.	4.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13 ft/hr, 20k WOB, 140 spm, 536 gpm, 150 MMTR rpm, 150 psi Diff, 3550 psi. GTF 160L. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 32' @ 64 ft/hr, 20k WOB, 60 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, Total rpm 210, 300 psi Diff, 3650 psi SPP, 12K TQ. Avg MSE - 4.0. Full returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 2rd connection to keep the hole clean.	0.5

Report #: 17 Daily Operation: 3/31/2014 06:00 - 4/1/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
16	17	12,122.0	8,984.1	11.30	H & P, 606	

Operations Summary
Drill 8-1/2" Production Section F/11,330' - 12,122'

Remarks
Progress: 16.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 29%

Line Proximity: 25' Left, 6' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 141' @ 56.5 ft/hr: 25k WOB, 70 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 220 Total rpm, 450 psi Diff, 3775 psi SPP, 14k TQ. Avg MSE - 5.2. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 2rd connection to keep the hole clean.	2.5
U_RIG_OTR	Circulate while changing swab & liner on pump #2. 80 spm, 1415 spp, 308 gpm, 20 TDS rpm & 5.3k TQ.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 149' @ 49.7 ft/hr: 32k WOB, 70 TDS rpm, 140 spm, 537 gpm, 150 MMTR rpm, 220Total rpm, 450 psi Diff, 3850 psi SPP, 14k TQ. Avg MSE - 6 - 7. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every connection to keep the hole clean.	3
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 14' @ 9.4 ft/hr, 22 k WOB, 140 spm, 536 gpm, 150 MMTR rpm, 120 psi Diff, 3310 psi SPP GTF 45R. Full returns to surface. No losses at this time.	2
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 175' @ 70 ft/hr: 32k WOB, 50 TDS rpm, 113 spm, 432 gpm, 120 MMTR rpm, 170Total rpm, 400 psi Diff, 2700 psi SPP, 11k TQ. Avg MSE - 6 - 7. Full Returns to surface. No losses at this time. Note: Drilling with reduced flow rate with 1 pump down for repairs. Note: Pumping 1.5# over hi-vis sweeps every connection to keep the hole clean.	2.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section, 20' @ 6.66 ft/hr, 48 k WOB, 140 spm, 536 gpm, 150 MMTR rpm, 140 psi Diff, 3350 psi SPP GTF 45R. Full returns to surface. No losses at this time.	3
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section, 174' @ 43.5 ft/hr: 32k WOB, 50 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 200Total rpm, 350 psi Diff, 3650 psi SPP, 11k TQ. Avg MSE - 4 - 6. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 2nd connection to keep the hole clean.	4
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section, 15' @ 7.5 ft/hr, 40 k WOB, 140 spm, 536 gpm, 150 MMTR rpm, 140 psi Diff, 3350 psi SPP GTF 45R. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section, 66' @ 44 ft/hr: 28k WOB, 50 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 200Total rpm, 275 psi Diff, 3650 psi SPP, 11k TQ. Avg MSE - 4 - 6. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 2nd connection to keep the hole clean.	1.5
RIGSER	Rig Service	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section, 13' @ 26 ft/hr: 28k WOB, 50 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 200Total rpm, 275 psi Diff, 3650 psi SPP, 11k TQ. Avg MSE - 4 - 6. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 2nd connection to keep the hole clean.	0.5
DRL LAT-ROT	Slide Drill 8-1/2" Production Section, 25' @ 12.5 ft/hr, 25 k WOB, 140 spm, 536 gpm, 150 MMTR rpm, 150 psi Diff, 3500 psi SPP, GTF 45R. Full returns to surface. No losses at this time.	2

Report #: 18 Daily Operation: 4/1/2014 06:00 - 4/2/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
17	18	12,608.0
	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)
	8,973.8	11.35
		Rig H & P, 606

Operations Summary

Drill 8-1/2" Production Section F/12,122' - 12483', Perform cleanup cycle, Drill 8-1/2" Production Section F/12,483' - 12,608'

Remarks

Progress: 17.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 34%

Line Proximity: 24' Left, 0' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 159' @ 64 ft/hr: 25k WOB, 70 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 220 Total rpm, 350 psi Diff, 3750 psi SPP, 10k TQ. Avg MSE - 4.5 - 7. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 3rd connection to keep the hole clean.	2.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13 ft/hr, 38k WOB, 140 spm, 536 gpm, 150 MMTR rpm, 250 psi Diff, 3200 psi SPP, GTF 90R. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 75' @ 25 ft/hr: 32k WOB, 70 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 220 Total rpm, 550 psi Diff, 3950 psi SPP, 13k TQ. Avg MSE - 5 - 9. Full Returns to surface. No losses at this time. Note: Pumping 1.5# over hi-vis sweeps every 3rd connection to keep the hole clean.	3
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 8.8 ft/hr, 50k WOB, 140 spm, 536 gpm, 150 MMTR rpm, 245 psi Diff, 3560 psi SPP, GTF 45R. Full returns to surface. No losses at this time.	2.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 87' @ 44 ft/hr: 28k WOB, 70 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 220 Total rpm, 370 psi Diff, 4000 psi SPP, 23k TQ. Avg MSE 5 - 15. Full Returns to surface. No losses at this time. Note: Getting excessive Tq. and differential. 25k TQ & 950 psi diff.	2
CIRC	Perform clean up cycle, Set back 1 stand, pump 40 bbl sweep (1.5 ppg over, 70 vis) @ 432 gpm (1 pump down for repairs), 70 rpm while reciprocating full stand, pump 2nd 40 bbl sweep (1.5 ppg over, 70 vis) @ 536 gpm (both pumps back on hole), 70 rpm while reciprocating full stand. Both sweeps were productive, shakers cleaned up after 2nd sweep.	3
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 36' @ 18 ft/hr: 33k WOB, 70 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 220 Total rpm, 275 psi Diff, 3600 psi SPP, 13k TQ. Avg MSE 8 - 13. Full Returns to surface. No losses at this time.	2
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 34' @ 17 ft/hr: 35k WOB, 70 TDS rpm, 113 spm, 433 gpm, 121 MMTR rpm, 191 Total rpm, 320 psi Diff, 2670 psi SPP, 12k TQ. Avg MSE 8 - 13. Full Returns to surface. No losses at this time. Note: Drilling ahead with 1 pump Note: Pump Sweep every 3rd connection	2
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 46' @ 18 ft/hr: 35k WOB, 70 TDS rpm, 140 spm, 536 gpm, 150 MMTR rpm, 220 Total rpm, 275 psi Diff, 3575 psi SPP, 13k TQ. Avg MSE 8 - 30. Full Returns to surface. No losses at this time. Note: 2 MWD Check shots taken during this interval. Note: Pump sweep every 3rd connection.	3.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 12' @ 6 ft/hr, 32 k WOB, 140 spm, 536 gpm, 150 MMTR rpm, 164 psi Diff, 3400 psi SPP, GTF 50L. Full returns to surface. No losses at this time.	1.5
CIRC	Circulate clean-up cycle w/40 bbl weighted sweeps for trip	0.5

Report #: 19 Daily Operation: 4/2/2014 06:00 - 4/3/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
18	19	12,608.0
		End Depth (TVD) (ftKB)
		8,973.8
	Dens Last Mud (lb/gal)	Rig
	11.45	H & P, 606

Operations Summary

Perform clean-up cycle, TOH, L/D BHA, Remove wear bushing, Wash bowl, Install wear bushing, Function test BOPE, P/U BHA, TIH To 11,454'

Remarks

Progress: 18.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of March

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 34%

Line Proximity: 24' Left, 0' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
TOOH	Circulate clean-up cycle 2 w/40 bbl weighted sweeps & circulate until shakers are clean for trip. Flow Check ok well is static.	2
TOOH	Pump Slug, TOOH for New Bit and Motor	0.5
TOOH	TOOH F/12,608' - T/BHA @ 101'. Normal drag, Proper fill, Came out of hole on a double. Racking back DP in derrick.	7
BHA	Held safety meeting on BHA handling, Break bit, L/D Dir. Assy.	1
WEARBUS HING	Clean Rig Floor, Function Test BOPE, Held Safety Meeting On Pulling Wear Bushing, Pull & Inspect Wear Bushing, Wash Seat & Install Wear Bushing, Pioneer Rep Witnessed Locking In Wear Bushing.	2
BHA	Held Safety Meeting On BHA Handling, P/U Motor, 8" Stabilizer, UBHO & NMDC, Remove Sleeve & Install Stabilizer On Motor, Adjust Motor To 1.76°, Scribe & Install MWD, Surface Test Motor & MWD, 100 spm, 383 gpm, 850 psi, M/U Bit, P/U Flex NMDC & X.O. Sub	3
TIH	TIH F/102' - 8,315', Fill every 30 stands. Hole displacing properly.	5
RIGSER	Rig Service	0.5
TIH	TIH F/8,315' to 11,454', Fill @ 9,455' & 11,140'. Hole displacing properly.	3

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 20 Daily Operation: 4/3/2014 06:00 - 4/4/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days) 19	Days on Location (days) 20	End Depth (ftKB) 12,608.0	End Depth (TVD) (ftKB) 8,973.8	Dens Last Mud (lb/gal) 11.50	Rig H & P, 606	

Operations Summary
Rig Repair, TIH, Rig Repair, Attempt Circulation, Hole packing off, POOH, Circ @ bottom of curve, Perform clean-up cycle, TIH to 11,491', Perform clean up cycle, Hole packing off, TOOH to Shoe

Remarks
Progress: 19.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 7.5 hours for previous 24 hours; 7.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 34%

Line Proximity: 24' Left, 0' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
U_RIG	Drawworks malfunction. Electrical communication error between VFD and MCC.	2
TIH	TIH F/11,454' to 12,116', Hole displacing properly. Started circ and reaming down. 5 stands off bottom, @ 12,179' started packing off, pulled 1 stand washing out w/500 gpm then started clean up cycle sending one 20bbl 1-1/2 ppb over wt sweep, got sweep 3/4 out of hole. Hole still packing off when rig shut down.	2.5
U_RIG	Waiting on H&P PLC cards to show up to repair VFD.	5.5
CIRC	VFD repaired, Work pipe out to 11,140', pump 10 bbl sweep 2# over (13.4 ppg), pumped 9900 strokes @ 460 gpm, hole still packing off.	4
TOOH	POOH to 9,550' Bottom of Curve	1.5
CIRC	Circ. @ 9,550, hole packing off, staging flow rate up 150 gpm - 421 gpm, 65 rpm, Pump 20 bbl sweep (2# over), staging flow rate up to 536gpm, 70 rpm, pump 30 bbl sweep, reciprocating & rotating 9,460' - 9,550', Sweeps brought lots of cuttings and Blocky Shale. No more packing off and travel free.	4
TIH	TIH to 10,491', No problems	0.5
CIRC	Circ 30 bbl Sweep (2.0 # over wt.) at 450 GPM, Hole packing off, Stage up pumps to circ, Att to work Stand, Hole packing Off,	3
TOOH	POOH to casing shoe	1

Report #: 21 Daily Operation: 4/4/2014 06:00 - 4/5/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days) 20	Days on Location (days) 21	End Depth (ftKB) 12,608.0	End Depth (TVD) (ftKB) 8,973.8	Dens Last Mud (lb/gal) 11.05	Rig H & P, 606	

Operations Summary
TOOH To Shoe, Circ B/U @ 8500', Wash & Ream F/8,500' - 10210', Perform clean up cycle @ 12,210', Wash & Ream F/12,210' - 10,676', Perform clean up cycle, Wash & Ream F/10,676' - 11,329', Perform clean up cycle, Wash & Ream F/11,329' - 11,707'

Remarks
Progress: 20.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 34%

Line Proximity: 24' Left, 0' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
TOOH	POOH to casing shoe (~8,334') When POOH through curve from 8,950' to 9,350' pulling tight pump and ream out w/20 rpm, 700-800 psi, 225 gpm, no more than 12k TQ, 70 pounds of over pull from string weight. Above 8,500' w/ no drag on elevators	3
CIRC	TIH F/8,410' T/8,500' (90') work drlg string (below shoe) w/ 537 gpm, 25 rpm, no drag or torque.	2.5
WASH_REAM	Wash and ream F/8,500' T/10,210'. At 9,274' (~83 degrees), turned RPM up to 60. Once into the lateral (9,330'), bumped RPM up to 80, @ 9,450' Bumped RPM to 110, 130 spm, 500 gpm, 2550 psi & 8k TQ. Note: Observed an increase in cuttings on shakers @ B/U from the EOC	8

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Perform clean up cycle @ 10,210', hole trying to pack off, Pump sweep 20 bbl (1.5# over) 10 min. system mud 30 bbl (1.5# over), Work pipe, able to rotate and reciprocate 10,115' to 10,210', Pump 2nd sweep 20 bbl (1.5# over) 10 min. system mud 30 bbl (1.5# over), Circulated both sweeps out. Note: Observed marked increase in cuttings @ shaker on both sweeps.	2.5
WASH_RE AM	Wash and ream F/10,210' - 10,676', 110 rpm, 130 spm, 500 gpm, 2600 psi and 5 - 7 k Tq.	2
CIRC	Perform clean up cycle @ 10,676', Pump sweep 20 bbl (1.5# over) 10 min. system mud 30 bbl (1.5# over), Able to rotate and reciprocate 10,676' to 10,584', Circulated sweep out while rotating & reciprocating. Note: Observed a bit less cuttings than previous sweep @ shaker on this sweep.	1.5
WASH_RE AM	Wash and ream F/10,676' - 11,329', 110 rpm, 130 spm, 500 gpm, 2700 psi & 5 - 7 k Tq.	2
CIRC	Perform clean up cycle @ 11,329', Pump sweep 20 bbl (1.5# over) 10 min. system mud 30 bbl (1.5# over), Able to rotate and reciprocate 11,234' to 11,329', Circulated sweep out while rotating & reciprocating. Note: Observed more cuttings than previous sweep @ shaker on this sweep.	1.5
WASH_RE AM	Wash and ream F/11,329' - 11707', 110 rpm, 130 spm, 500 gpm, 2750 psi & 5 - 7 k Tq.	1

Report #: 22 Daily Operation: 4/5/2014 06:00 - 4/6/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
Days From Spud (days) 21	Days On Location (days) 22	End Depth (ftKB) 12,875.0
	End Depth (TVD) (ftKB) 8,974.0	Dens Last Mud (lb/gal) 11.00
		Rig H & P, 606

Operations Summary
Wash & Ream 11,707' - 12,608', Drilling 8-1/2" Lateral 12,608' - 12,867', Replace TD washpipe & packing, Drilling & Sliding 8-1/2" Lateral 12,867' - 12,875', Motor stalling, Circulate clean up cycle, TOO H to 9,643', Circulate clean up cycle @ 9,643', TOO H to 9,100'

Remarks
Progress: 21.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 7.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 37%

Line Proximity: 8' Left, 2' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
WASH_RE AM	Wash and ream F/11,707' T/12,185', 110 rpm, 130 spm, 500 gpm, 2750 psi SPP, & 4-6k TQ. No drag w/ full returns. F/12,185' T/12,608' started running 80 rpm, 500 gpm, 8-10k TQ, 5k WOB for out of gauge hole, relog last 60'	3.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 136' @ 38 ft/hr: 30k WOB, 80 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 220 Total rpm, 350 psi Diff, 3070 psi SPP, 13k TQ. Avg MSE: 6-8. Full returns to surface. No losses at this time. Note: 2 MWD Check shots taken during this interval. Note: Pump sweep every 2nd connection.	3.5
RIGSER	Rig service	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 106' @ 30 ft/hr. 30k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 350 psi Diff, 3000 psi SPP, 9-12k TQ. Avg MSE: 6-9. Full returns to surface. No losses at this time.	3.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 4' @ 5 ft/hr, 50k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 100 psi Diff, 2900 psi SPP, GTF 120L. Full returns to surface. No losses at this time.	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 13' @ 26 ft/hr. 22k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm. 290 psi Diff, 3000 psi SPP, 8-11k TQ. Avg MSE: 4-7. Full returns to surface. No losses at this time. Note: Motor stalled 3 X, on bottom in rotation. Note: Pump sweep every 2nd connection.	0.5
U_RIG_OT R	Top drive leaking, pull 2 stands, replace top drive packing, run in 2 stands.	1.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 5' @ 3.3 ft/hr, 55k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 50 psi Diff, 2850 psi SPP, GTF 125L. Full returns to surface. No losses at this time.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 3' @ 6 ft/hr. 25k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 330 psi Diff, 3050 psi SPP, 13k TQ Avg MSE: 5-9. Full returns to surface. No losses at this time. Note: Motor keeps stalling in rotation.	0.5
CIRC	Perform clean up cycle, Pump 30 bbl (1.5 ppg over) followed by 10 min. system mud followed by 30 bbl (1.5 ppg over) while reciprocating and rotating 90' @ 80 rpm, 130 spm, 500 gpm, 2750 psi SPP. Note: Shakers clean after sweeps, nickle to quarter size pieces with sweeps.	2.5
TOOH	TOOH to 9,643', hole filling properly.	2.5
CIRC	Perform 2 clean up cycles @ 9,643', Each cycle pumped 30 bbl (1.5 ppg over) followed by 10 min. system mud followed by 30 bbl (1.5 ppg over) while reciprocating and rotating 90' @ 80 rpm, 130 spm, 500 gpm, 2200 psi SPP. Pump slug. Note: First cycle brought back fair amount of cuttings, second cycle shakers cleaned up.	2.5
TOOH	TOOH to 9,100', hole filling properly	0.5

Report #: 23 Daily Operation: 4/6/2014 06:00 - 4/7/2014 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 029578	
Days From Spud (days)	Days On Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
22	23	12,875.0	8,974.0	11.00	H & P, 606

Operations Summary

TOOH F/9,100' T/BHA, L/D Bit & Motor, Remove & inspect wear bushing, Wash bowl, Full BOPE test, Install wear bushing, Perform accumulator test, Install new manual IBOP, P/U Dir. Tools, TIH F/BHA - T/5,500'

Remarks

Progress: 22.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 2.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 37%

Line Proximity: 8' Left, 2' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
TOOH	TOOH F/9,100' T/8,500'. Hole filling properly.	1
CIRC	Circulate surface-to-surface. Pump slug.	1
TOOH	TOOH F/8,500' T/BHA. Hole filling properly.	3
SAFETY	Held PJSM on handling/laying down BHA	0.5
BHA	Drain mud motor. Break bit, lay down mud motor, and put rest of BHA (IDS stabilizer to IDS flex monel) in mousehole.	0.5
SAFETY	Held PJSM on pulling, washing, and re-installing wear bushing. Cleaned rig floor (OBM).	0.5
WEARBUS HING	Pull & Inspect Wear Bushing	0.5
SAFETY	Held PJSM for testing BOPE	0.5
NU/TEST	Test BOP's & choke equipment 250 Low 5 min. / 3,500 High 5 min. Test TDS, stand pipe to pumps 250 Low 5 min / 4,500 High 5 min. Test TIW & Dart Valve to 250 Low 5 min / 4,500 High 5 min. Note: All tests good except for manual IBOP, new manual IBOP ordered.	9.5
WEARBUS HING	Wash wellhead seat and install wear bushing. Pioneer Rep. witnessed bolts locking in wear bushing	0.25
NU/TEST	Perform accumulator test. Test good.	0.25
SAFETY	Held PJSM On Changing Manual IBOP	0.5
U_RIG	Remove old and install new manual IBOP, saver sub, & install compression rings on TDS.	2
SAFETY	Held PJSM on BHA Handling	0.5
BHA	Pick up BHA #8 (Lateral Assy. #4): Motor, 8" Stabilizer, UBHO & NMDC, Adjust Motor To 1.76°, Scribe & Install MWD, Surface Test Motor & MWD, 100 spm, 383 gpm, 850 psi, M/U Bit, P/U Flex NMDC & XO Sub.	1.5
TIH	TIH W/BHA #8 (Lateral Assy. #4) To 5,500'. Hole displacing properly.	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 24 Daily Operation: 4/7/2014 06:00 - 4/8/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
23	24	13,157.0	8,976.9	11.00	H & P, 606	

Operations Summary
TIH T/ Shoe (8,321'), Cut & Slip Drilling line, TIH F/8,321' T/12,580, Wash & Ream Undergauge Hole F/12,580' T/12,845', Re-Log Last 30' F/12,845' T/12,875', Drilling & Sliding 8-1/2" Lateral F/12,875' T/13,157'

Remarks
Progress: 23.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 40%

Line Proximity: 7' Right, 6' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
TIH	TIH F/5,500' T/Shoe (8,321'). Hole taking proper fill.	2
SAFETY	Hold PJSM for slip/cut drill line	0.5
CUTDL	Dock Top Drive, Slip/Cut 11 Wraps (100 ft.) Drlg line	1.5
RIGSER	Test crown saver, Recalibrate Top Drive & test high/low travel limits & high/low stop points	0.5
TIH	TIH F/8,321' T/12,580'. Hole taking proper fill. Note: When tripping through curve (F/8,350' T/9,328'), oriented tool face to ensure hole integrity was maintained and no new hole was drilled.	3.5
WASH_REAM	Wash and ream undergauge hole F/12,580' T/12,845' with 60 RPM, 130 SPM, 500 GPM, 140 MMTR RPM, 200 Total RPM, 3150 psi SPP, 6-9k TQ.	2
LOG	Re-log last 30' F/12,845' T/12,875'.	0.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 23' @ 15.3 ft/hr, 45k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 75 psi Diff, 3120 psi SPP, GTF 130L. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 68' @ 35.3 ft/hr. 28k WOB, 60 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 200 Total rpm, 500 psi Diff, 3500 psi SPP, 9-12k TQ. Avg MSE: 6-9. Full returns to surface. No losses at this time. Note: 1 connection/survey and 1 survey check shot taken in this interval.	1.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 6.6 ft/hr, 35k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 75 psi Diff, 3120 psi SPP, GTF 130L. Full returns to surface. No losses at this time.	3
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 57' @ 57 ft/hr. 28k WOB, 60 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 200 Total rpm, 375 psi Diff, 3370 psi SPP, 11 - 14 k TQ. Avg MSE: 4 - 7. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand Note: 1 connection/survey in this interval.	1
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 16' @ 5.33 ft/hr, 33k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 75 psi Diff, 3020 psi SPP, GTF 110L. Full returns to surface. No losses at this time.	3
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 78' @ 52 ft/hr. 28k WOB, 60 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 200 Total rpm, 420 psi Diff, 3300 psi SPP, 12 - 14 k TQ. Avg MSE: 4 - 7. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand Note: 1 connection/survey & take SPR's in this interval.	1.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 10 ft/hr, 38k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 50 psi Diff, 2950 psi SPP, GTF 90L. Full returns to surface. No losses at this time.	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 25 Daily Operation: 4/8/2014 06:00 - 4/9/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
24	25	14,001.0	8,975.4	10.90	H & P, 606	

Operations Summary

Drill 8-1/2" Production Section F/13,157' T/14,001'

Remarks

Progress: 24.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 49%

Line Proximity: 16' Right, 10' Low of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 91' @ 46 ft/hr. 23k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 550 psi Diff, 3550 psi SPP, 9-12k TQ. Avg MSE: 6-9. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand	2
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13.3 ft/hr, 50k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 200 psi Diff, 3050 psi SPP, GTF 20L. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 74' @ 148 ft/hr. 28k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 350 psi Diff, 3100 psi SPP, 10-13k TQ. Avg MSE: 5. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand	0.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 22' @ 5.5 ft/hr, 60k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 225 psi Diff, 2950 psi SPP, GTF 0HS. Full returns to surface. No losses at this time.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 73' @ 48.7 ft/hr. 28k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 350 psi Diff, 3100 psi SPP, 10-13k TQ. Avg MSE: 7-10. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand	1.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 12' @ 8 ft/hr, 30-50k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 125 psi Diff, 2950 psi SPP, GTF 150L. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 538' @ 59.7 ft/hr. 28k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 500 psi Diff, 3500 psi SPP, 11 - 15k TQ. Avg MSE: 5 - 11. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand	9
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 14' @ 3.5 ft/hr, 30-40k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 75 psi Diff, 2975 psi SPP, GTF HS. Full returns to surface. No losses at this time.	4

Report #: 26 Daily Operation: 4/9/2014 06:00 - 4/10/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
25	26	14,823.0	8,963.6	10.90	H & P, 606	

Operations Summary

Drill 8-1/2" Production Section F/14,001' T/14,254'. Rig service. Drill 8-1/2" Production Section F/14,254' T/14,823'

Remarks

Progress: 25.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 57%

Line Proximity: 0' Left/Right, 9' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 6' @ 3.4 ft/hr, 22k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 85 psi Diff, 3000 psi SPP, GTF HS. Full returns to surface. No losses at this time.	1.75
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 74' @ 42 ft/hr. 28k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 300 psi Diff, 3350 psi SPP, 14k TQ. Avg MSE: 6. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand	1.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 9' @ 9 ft/hr, 22k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 85 psi Diff, 3000 psi SPP, GTF HS. Full returns to surface. No losses at this time.	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 104' @ 46 ft/hr. 28k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 300 psi Diff, 3350 psi SPP, 14k TQ. Avg MSE: 6.5. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand	2.25
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 6.7 ft/hr, 22k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 85 psi Diff, 3000 psi SPP, GTF HS. Full returns to surface. No losses at this time.	1.5
DRL CURVE-ROT	Rotate Drill 8-1/2" Production Section 50' @ 40 ft/hr. 28k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 300 psi Diff, 3350 psi SPP, 14k TQ. Avg MSE: 6.5. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand	1.25
RIGSER	Rig service - worked on top drive.	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 34' @ 68 ft/hr. 28k WOB, 70 TDS rpm, 130 spm, 500 gpm, 140 MMTR rpm, 210 Total rpm, 300 psi Diff, 3350 psi SPP, 14k TQ. Avg MSE: 6.5. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand	0.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 6.66 ft/hr, 22k WOB, 130 spm, 500 gpm, 140 MMTR rpm, 85 psi Diff, 3000 psi SPP, GTF 180. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 212' @ 53'/hr. 28k WOB, 70 TDS rpm, 134 spm, 513 gpm, 144 MMTR rpm, 214 Total rpm, 400 psi Diff, 3750 psi SPP, 14k TQ. Avg MSE: 6.5. Full returns to surface. No losses at this time. Note: Sweep every 2nd stand. Note: 4 check shot surveys taken in this interval.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 155' @ 44.3'/hr. 28k WOB, 70 TDS rpm, 134 spm, 513 gpm, 144 MMTR rpm, 214 Total rpm, 450 psi Diff, 3800 psi SPP, 14k TQ. Avg MSE: 6.7. Full returns to surface. No losses at this time. Note: 1-1/2 - 2# Weighted Sweeps w/ nut plug every other stand. Note: Taking check shot surveys every 30'.	3.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 6.7'/hr, 25k WOB, 134 spm, 513 gpm, 144 MMTR rpm, 130 psi Diff, 3300 psi SPP, GTF 180. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 148' @ 49.3'/hr. 29k WOB, 70 TDS rpm, 134 spm, 513 gpm, 144 MMTR rpm, 214 Total rpm, 450 psi Diff, 3950 psi SPP, 14k TQ. Avg MSE: 7.0. Full returns to surface. No losses at this time. Note: 1-1/2 -2# Weighted Sweeps w/ nut plug every other stand. Note: Taking check shot surveys every 30'.	3

Report #: 27 Daily Operation: 4/10/2014 06:00 - 4/11/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	029578

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
26	27	15,805.0	8,962.0	11.00	H & P, 606

Operations Summary

Drill 8-1/2" Production Section F/14,823' - 15,011'. Rig service. Drill 8-1/2" Production Section F/15,011' - 15,805'

Remarks

Progress: 26.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 68%

Line Proximity: 24' Right, 12' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 188' @ 47'/hr. 29k WOB, 70 TDS rpm, 134 spm, 513 gpm, 144 MMTR rpm, 214 Total rpm, 450 psi Diff, 3950 psi SPP, 14k TQ. Avg MSE: 7.0. Full returns to surface. No losses at this time. Note: 1-1/2 -2# Weighted Sweeps w/ nut plug every other stand. Note: Taking check shot surveys every 30'.	4
RIGSER	Service rig & top drive	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 189' @ 47.3'/hr. 29k WOB, 29k TDS rpm, 134 spm, 513 gpm, 144 MMTR rpm, 214 Total rpm, 450/500 psi Diff, 3950 psi SPP, 14k TQ. Avg MSE: 6.7. Full returns to surface. No losses at this time. Note: 1-1/2 -2# Weighted Sweeps w/ nut plug every other stand.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 188' @ 47'/hr. 29k WOB, 70 TDS rpm, 134 spm, 513 gpm, 144 MMTR rpm, 214 Total rpm, 400/500 psi Diff, 3950 psi SPP, 14k TQ. Avg MSE: 6.8. Full returns to surface. No losses at this time. Note: 1-1/2 -2# Weighted Sweeps w/ nut plug every other stand.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 192' @ 48'/hr. 29k WOB, 60/70 TDS rpm, 134 spm, 513 gpm, 144 MMTR rpm, 204/214 Total rpm, 400/500 psi Diff, 4000/4200 psi SPP, 14/15k TQ. Avg MSE: 7.0. Full returns to surface. No losses at this time. Note: 1-1/2 -2# Weighted Sweeps w/ nut plug every other stand.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 126' @ 50.4'/hr. 29k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 400/500 psi Diff, 3950 psi SPP, 14/15k TQ. Avg MSE: 7.2. Full returns to surface. No losses at this time. Note: 1-1/2 -2# Weighted Sweeps w/ nut plug every other stand.	2.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 4'/hr, 30/40k WOB, 130 spm, 498 gpm, 140 MMTR rpm, 150 psi Diff, 3400 psi SPP, GTF 130 L. Full returns to surface. No losses at this time.	2.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 84' @ 48'/hr. 30k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 400/500 psi Diff, 3975 psi SPP, 14/15k TQ. Avg MSE: 7.1. Full returns to surface. No losses at this time. Note: 1-1/2 -2# Weighted Sweeps w/ nut plug every other stand.	1.75
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 5' @ 6.7'/hr, 30/40k WOB, 130 spm, 498 gpm, 140 MMTR rpm, 150 psi Diff, 3400 psi SPP, GTF 130 L. Full returns to surface. No losses at this time.	0.75

Report #: 28 Daily Operation: 4/11/2014 06:00 - 4/12/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
27	28	15,860.0
	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)
	8,963.9	11.20
		Rig H & P, 606

Operations Summary

Drill 8-1/2" Production Section F/15,805' - 15,853', Perform clean up cycle, Drill F/15,853' - 15,860', Circulate, TOOH F/15,860' - 9,350' (EOC), Perform clean up cycles, TOOH F/9,350' - BHA, L/D motor & bit

Remarks

Progress: 27.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 68%

Line Proximity: 24' Right, 12' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 5' @ 3.3'/hr, 30/40k WOB, 130 spm, 498 gpm, 140 MMTR rpm, 150 psi Diff, 3400 psi SPP, GTF 130 L. Full returns to surface. No losses at this time.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 43' @ 24'/hr. 30k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 400/500 psi Diff, 3975 psi SPP, 14/17k TQ. Avg MSE: 10.1. Full returns to surface. No losses at this time.	1.75
CIRC	Clean up cycle/circ sweeps with 11000 stks @ 130 spm, 500 gms, 2700 psi. Pump 30 bbls sweep, after 5 minutes pump 40 bbl sweep of 2 ppg over w/ 5 ppb Nut Plug & reciprocate pipe a full stand. When pumping sweep blown swab in # 2 pump (rig side) change swab & liner.	3
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 7' @ 9'/hr. 30-35k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 100/200 psi Diff, 2750 psi SPP, 9/10k TQ. Avg MSE: 13-100. Full returns to surface. No losses at this time. Note: Getting no penetration from bit, prepair to POOH.	0.75
CIRC	Circ while mixing slug, check well for flow (no flow) well static, pump 40 bbl slug 2.5 ppg over.	1.5
TOOH	POOH, stand back 1 stand, L/D 1 joint (to change DP break), POOH F/ 15737' - 9,350'. keep hole full from trip tanks, no losses. #2 pump still down liner stuck in pump, working on getting out.	4

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Clean up cycle at bottom of curve, pump 2 - (30 bbl) weight sweeps of 2 pounds over. Pump sweep surface to surface 6900 stks with 100 RPM, 536 GPM, 2800 psi SPP, reciprocating pipe at 95'. Full returns. After sweeps came around, shakers were loaded with cuttings & sluffing shale that was built up in the curve. Perform 2nd clean up cycle by pumping 2 - (30 bbl) weighted sweeps of 2 pounds over. Pumped sweep surface to surface like first cycle. Minimal cuttings @ middle shaker with a handful of sluffing shale. Perform 3rd clean up cycle & when sweep came around shakers were clean. Performed flow check (no flow) - well static.	5.5
TOOH	Pump Slug & TOOH F/9,350' - BHA with trip tank, w/ no excess drag & hole is taking proper displacement.	4.5
BHA	Drain motor and break bit. Retrieve MWD tool & L/D same, pull & inspect mule shoe sleeve. L/D dirty motor.	1.5

Report #: 29 Daily Operation: 4/12/2014 06:00 - 4/13/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
Days From Spud (days) 28	Days on Location (days) 29	End Depth (ftKB) 16,052.0
	End Depth (TVD) (ftKB) 8,968.4	Dens Last Mud (lb/gal) 11.50
		Rig H & P, 606

Operations Summary

Pull & inspect wear bushing, P/U & M/U BHA #9 & test, Service Rig, TIH F/BHA - 9,350', Circulate @ EOC, TIH F/9,350' - 13,122', Circulate, Wash/ream F/13,122' - 15,860', Drill 8-1/2" Production Section F/15,860' - 16,052'

Remarks

Progress: 28.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 70%

Line Proximity: 31' Right, 20' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
WLHEAD	Remove & Inspect wear bushing (ok). Wash out well head with wash sub and install wear bushing, lock down wear bushing with lock screws. Note: 7 day Function test of BOPE- Good.	1.25
BHA	P/U & M/U Integrity Mud Motor 7/8, 5.0 stage w/8" Stab ABH @ 1.5° FBH, 0.28 rpg. Scribe motor, orientate muleshoe sleeve, install MWD tool, Make up NMDC's, and perform surface test - 100 spm, 379 gpm, 1058 psi (good). M/U 8-1/2" Halliburton FX64DM PDC with 1.178 TFA. TH Hill job No: 19109, date 4/06/2014	1.75
RIGSER	Service rig & top drive C/O elevators due to safety latch not closing properly	0.5
TIH	TIH w/ lateral assembly F/BHA T/9,350' fill pipe every 30 stands, 26-29% flow on every stand, hole displacing properly into trip tank, no problems encountered.	4.5
CIRC	Break circulation @ EOC ~ 9,350' w/ 130 spm, 500 gpm, 2400 psi SPP. Full returns to surface.	0.5
TIH	TIH w/ lateral assembly F/9,350' - 13,783' fill pipe every 15 stands, 26-29% flow on every stand, hole displacing properly into trip tank, no problems encountered.	4
CIRC	Circulate Bttm up w/ 7,300 stks while reciprocating with 100 RPM, 498 GPM, 3300 psi SPP, reciprocating pipe at 95'. Note: Nothing coming over shakers.	1
TIH	TIH w/ lateral assembly F/13,783' - 13,877'. 26-29 % flow on every stand, hole displacing properly into trip tank. Note: Tight spot at 13,800', set 40k on it & broke through. Worked through tight spot. Oriented motor to HS. Hit another tight spot @ 13,861', unable to push through, washed/reamed through tight spot. Wash/ream to bttm.	1
WASH_REAM	Wash & ream F/13,877' to bttm w/ 130 spm, 498 gpm, 100 TDS rpm,	3.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 23' @ 46/hr. 30k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 350/500 psi Diff, 3900 psi SPP, 14/15k TQ. Avg MSE: 7.1. Full returns to surface.	0.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 15' @ 6.7/hr, 30/45k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 100 psi Diff, 3400 psi SPP, GTF 60 L. Full returns to surface.	2.25
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 91' @ 72.8/hr, Avg MSE: 6.5. Full returns to surface.	1.25
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 6.7/hr. 75 diff psi, GTF 30 L. Full returns to surface.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 53' @ 106'/hr, Avg MSE: 6.0. Full returns to surface.	0.5

Report #: 30 Daily Operation: 4/13/2014 06:00 - 4/14/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
Days From Spud (days) 29	Days on Location (days) 30	End Depth (ftKB) 16,659.0
	End Depth (TVD) (ftKB) 8,934.4	Dens Last Mud (lb/gal) 11.00
	Rig H & P, 606	

Operations Summary

Drill 8-1/2" Production Section F/16,052' - 16,091', Pioneer location search - Good, Drill 8-1/2" Production Section F/16,091' - 16,240', Service Rig, Drill 8-1/2" Production Section F/16,240' - 16,659'

Remarks

Progress: 29.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 76%

Line Proximity: 40' Right, 3' Below of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 28' @ 56'/hr. 30k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 400/500 psi Diff, 3950 psi SPP, 15/17k TQ. Avg MSE: 7.1. Full returns to surface.	0.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 11' @ 5.5'/hr, 30/45k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 100 psi Diff, 3400 psi SPP, GTF 20 L. Full returns to surface. Change shaker screens to API 200/200/170/170 due to solid control keeping up w/ fluid recovery.	2
U_OTR	Location search, housing and vehcles. Everyone at muster station Pick up 45' and circ. w/ 389 GPM & 5 RPM. Driller & pusher took turns at controls in dog house.	0.75
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 4' @ 4'/hr, 30/45k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 100 psi Diff, 3400 psi SPP, GTF high side. Full returns to surface.	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 145' @ 83'/hr. Avg MSE: 4.1. Full returns to surface.	1.75
RIGSER	Service rig & top drive	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 15' @ 30'/hr. Avg MSE: 4.9. Full returns to surface.	0.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 15' @ 6.7'/hr, GTF 20 L. Full returns to surface.	2.25
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 80' @ 64'/hr. Avg MSE: 5.5. Full returns to surface.	1.25
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 5'/hr, GTF 70 L. Full returns to surface.	2
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 84' @ 84'/hr. 30k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 350/500 psi Diff, 3950 psi SPP, 15/17k TQ. Avg MSE: 5.2. Full returns to surface.	1
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 5'/hr, 20/30k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 110 psi Diff, 3450 psi SPP, GTF 130 L. Full returns to surface.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 70' @ 70'/hr. 50 TDS rpm, 139 MMTR rpm, 189 Total rpm. Avg MSE: 5.5. Full returns to surface. Dropped TDS rpm down to 50 to help keep from building. Built 3.7° from last survey.	1
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 5.7'/hr, GTF 100 L. Full returns to surface.	1.75
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 10' @ 40'/hr. Avg MSE: 5.7. Full returns to surface.	0.25
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 10'/hr, GTF 100 L. Full returns to surface.	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 65' @ 86.7'/hr. Avg MSE: 5.1. Full returns to surface.	0.75
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 30' @ 17.2'/hr, GTF 170 L. Full returns to surface.	1.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 31 Daily Operation: 4/14/2014 06:00 - 4/15/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
30	31	16,839.0	8,919.4	11.00	H & P, 606	

Operations Summary
Drill 8-1/2" Production Section F/16,659' - 16,714', Service Rig, Drill 8-1/2" Production Section F/167124' - 16,839', Perform clean up cycle & prepare to TOOH for new directional assembly

Remarks
Progress: 30.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 78%

Line Proximity: 42' Right, 14' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 37' @ 11'/hr. 30k WOB, 50-80 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199-229 Total rpm, 350/500 psi Diff, 3950 psi SPP, 15/17k TQ. Avg MSE: 10.2. Full returns to surface.	3.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 18' @ 4'/hr, 20/30k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 110 psi Diff, 3450 psi SPP, GTF 120 L. Full returns to surface. Note: Phone meeting w/ superintendent, day consultant, directional driller & MWD in aware on anticollision of the University 3-30 #1 wellbore	4.25
RIGSER	Service Rig & top drive	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 30' @ 40'/hr. 30k WOB, 80 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 229 Total rpm, 500 psi Diff, 3950 psi SPP, 15/17k TQ. Avg MSE: 6.2. Full returns to surface.	0.75
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 26' @ 8'/hr, GTF 150 L. Full returns to surface. Note: Performing check shots every 30'.	3.25
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 16' @ 32'/hr. Avg MSE: 5.8. Full returns to surface.	0.5
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 22' @ 5.5'/hr, GTF 150 L. Full returns to surface. Performing check shots every 30'. 16,808' MD, 95.1° Inc, 181.6 Azi, 11' Above, 42' Right, ETE 77.68, SF- 2.17.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 10' @ 40'/hr. Avg MSE: 5.7. Full returns to surface. Note: Gen #1 Turbo went out, H&P will have mechanic here in morning to fix.	0.25
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 21' @ 3.5'/hr, GTF 150/170 L. Full returns to surface. Check shot: 16,839' MD, 95.3° Inc, 181.4 Azi, 14' Above, 42' Right, ETE- 54.02. SF- 1.8	6
CIRC	Building sweeps & perform clean up cycle. Preparing to TOOH for new directional assembly due to not being able to turn or drop hole direction. Racked back 1 stand so we are able to reciprocate DP 95'.	1

Report #: 32 Daily Operation: 4/15/2014 06:00 - 4/16/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
31	32	16,839.0	8,919.4	11.00	H & P, 606		

Operations Summary
Clean up cycle, TOOH F/16,389' - 12,000', Clean up cycle, TOOH F/12,000' - 9,728', Clean up cycle, TOOH F/9,728' - 8,300', Slip & cut Drill line, TOOH F/8,300' - BHA, L/D motor & bit, Pull & inspect wear bushing, P/U & M/U BHA #10 & test, TIH F/BHA - 8,312'

Remarks
Progress: 31.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 78%

Line Proximity: 42' Right, 14' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Clean up cycle at 16, 839' . Pump 2 - (30 bbl) weight sweeps of 2 pounds over with nut plug. Pump sweep surface to surface 12,100 stks with 80 RPM, 498 GPM, 3900 psi SPP, reciprocating pipe at 95'. Full returns. After 1st sweep came around, shakers were loaded with cuttings, 2 sweep around minimal cuttings, circulated another bttm up until shakers were clean. Performed flow check (no flow) - well static.	1.75
TOOH	Pump Slug & TOOH F/16,839 - 12,000' 1/2 of lateral with trip tank, w/ no excess drag & hole is taking proper displacement.	2
CIRC	Clean up cycle @ 12,000'. Pump 1 (30) bbl) weighted sweep of 2 pounds over w/ 5 sx nut plug surface to surface 8800 stks w/ 80 RPM, 3200 psi SPP reciprocating 95' w/ full returns. Minimal cuttings at shakers after sweep came around, circulated another bttm up until shakers were clean. Performed flow check (no flow) - well static.	2.25
TOOH	Pump Slug & TOOH F/12,000 - 9728' 450' from EOC of lateral with trip tank, w/ no excess drag & hole is taking proper displacement.	1.25
CIRC	Clean up cycle at 450' below bottom of curve, pump 2 - (30 bbl) weight sweeps of 2 pounds over. Pump sweep surface to surface 7000 stks with 100 RPM, 536 GPM, 2800 psi SPP, reciprocating pipe at 95'. Full returns. After sweeps hole is clean, Performed flow check (no flow) well static.	2.25
TOOH	Pump Slug & TOOH F/9,728' - 8,300' top of casing shoe with trip tank, w/ no excess drag & hole is taking proper displacement.	1
CUTDL	Cut and slip 81' (9 wraps) Off Drillline, Reset COM and Trip w/ blocks.	2.5
TOOH	TOOH F/8,300' - BHA with trip tank, w/ no excess drag & hole is taking proper displacement. Clean OBM off floor before handing BHA.	3.75
BHA	Drain motor and break bit. Retrieve MWD tool & L/D same, pull & inspect mule shoe sleeve. L/D dirty motor.	1
WLHEAD	Remove & Inspect wear bushing (ok). Wash out well head with wash sub and install wear bushing, lock down wear bushing with lock screws. Note: Function test of BOPE- Good.	1
BHA	P/U & M/U Integrity Mud Motor 7/8, 5.0 stage w/8" Stab ABH @ 2.0° FBH, 0.28 rpg. Scribe motor, orientate muleshoe sleeve, install MWD tool, Make up NMDC's, and perform surface test - 75 spm, 287 gpm, 815 psi (good). M/U 8-1/2" Halliburton MM65D PDC with 1.491 TFA. TH Hill Inspection on motor was waived due to needing the motor ASAP per engineer.	1.25
TIH	TIH w/ lateral assembly F/BHA T/8,312' fill pipe every 30 stands, 24-26% flow on every stand, hole displacing properly into trip tank, no problems encountered.	4

Report #: 33 Daily Operation: 4/16/2014 06:00 - 4/17/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
Days From Spud (days) 32	Days on Location (days) 33	End Depth (ftKB) 17,311.0
	End Depth (TVD) (ftKB) 8,911.3	Dens Last Mud (lb/gal) 11.10
		Rig H & P, 606

Operations Summary

TIH T/9,800', Brk Circulation, TIH F/9,800' - 14,245', Wash/Ream F/14,245' - 16,839', Drill 8-1/2" Production Section F/16,839' - 17,311'

Remarks

Progress: 32.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 83%

Line Proximity: 19' Right, 19' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
TIH	TIH w/ lateral assembly F/8,312' - 9,800' fill pipe every 30 stands, 24-26% flow on every stand, hole displacing properly into trip tank, no problems encountered.	1
CIRC	Break circulation @ EOC ~ 9,800' w/ 130 spm, 500 gpm, 2400 psi SPP. Full returns to surface.	0.75
TIH	TIH w/ lateral assembly F/9,800' - 14245' fill pipe every 15 stands, 26-29% flow on every stand, hole displacing properly into trip tank, Stacking out @ 14245'	3.5
WASH_REAM	Wash & ream F/14,245' - 16,839', w/ 60 RPM 500 GPM & 30K max WOB. Try several time w/o pump & RMP would not go, w/ full returns.	5.75
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13.3/hr, 30/35k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 100 psi Diff, 3600 psi SPP, GTF 150 L. Full returns to surface. Change shaker screens to API 200/170/170/170 due to solid control keeping up w/ fluid recovery.	1.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 75' @ 42.8/hr. 30k WOB, 50 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 189 Total rpm, 350 psi Diff, 3950 psi SPP, 14/15k TQ. Avg MSE: 4.7. Full returns to surface. Called superintendent to notify of SF of 1.09 & ETE of 2.72', with straight line survey to University 3-30 #1 depth our SF would be 0.96 with ETE of -7.57'	1.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 11' @ 11'/hr, GTF 135 L. Full returns to surface.	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 40' @ xx'/hr. Avg MSE: 5.5 Full returns to surface.	0.75
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 5.7'/hr, GTF 110 L. Full returns to surface. Tolerance shift to 30' above & 0' Below the plan line	1.75
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 221' @ 55.3'/hr. Avg MSE: 5.7 Full returns to surface.	4
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 13.3'/hr, GTF 90 R. Full returns to surface.	0.75
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 85' @ 56.7'/hr. Avg MSE: 6.0 Full returns to surface.	1.5

Report #: 34 Daily Operation: 4/17/2014 06:00 - 4/18/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
Days From Spud (days) 33	Days on Location (days) 34	End Depth (ftKB) 18,076.0
	End Depth (TVD) (ftKB) 8,912.2	Dens Last Mud (lb/gal) 11.00
	Rig H & P, 606	

Operations Summary

Drill 8-1/2" Production Section F/17,311' - 17,467', Service Rig, Circulate, Drill 8-1/2" Production Section F/17,467' - 17,846', Circulate, Drill 8-1/2" Production Section F/17,846' - 18,076'

Remarks

Progress: 33.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

Completion Percentage: Surface: 100% | Intermediate: 100% | Curve: 100% | Lateral: 91%

Line Proximity: 27' Left, 15' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 8'/hr, 30/35k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 130 psi Diff, 3600 psi SPP, GTF 120 R. Full returns to surface.	1.25
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 68' @ 67'/hr. 20/25k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 450/500 psi Diff, 3950 psi SPP, 14/15k TQ. Avg MSE: 4.7. Full returns to surface. 1-30 bbl sweep 2 ppg over	1.25
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 5'/hr, GTF 120 R. Full returns to surface.	4.25
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 58' @ 77'/hr. Avg MSE: 6.7. Full returns to surface. 2-30 bbl sweep 5 min apart of 2 ppg over	0.75
RIGSER	Service Rig & Top drive	0.5
CIRC	Circ, clean up cycle, wait for both sweeps to get back to surface Shakers 100% cover when sweep enter shakers.	1
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 110' @ 62.9'/hr. Avg MSE: 5.5. Full returns to surface.	1.75
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 6.2'/hr, GTF 100/120 R. Full returns to surface.	3.25
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 80' @ 40'/hr. Avg MSE: 8.0. Full returns to surface.	2
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 15' @ 20'/hr, GTF 90/100 R. Full returns to surface.	0.75
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 154' @ 68.4'/hr. Avg MSE: 5.8. Full returns to surface.	2.25
CIRC	Pumped sweep @ 17,760', rotated stand down & still have 3,500 stks before sweep comes around. Reciprocating DP 95' wwith 50 rpm, 500 gpm, 3700 psi. Sweep came around with shakers loaded, circulated another btms up until shakers were clean.	1.25
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 220' @ 73.3'/hr. Avg MSE: 5.2. Full returns to surface.	3
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 13.3'/hr, GTF 70 R. Full returns to surface.	0.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 35 Daily Operation: 4/18/2014 06:00 - 4/19/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
34	35	18,950.0	8,889.1	11.00	H & P, 606	

Operations Summary

Drill 8-1/2" Production Section F/18,076' - 18,318', Service Rig, Drill 8-1/2" Production Section F/18,318' - 18,950' TD

Remarks

Progress: 34.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

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

Line Proximity: 64' Left, 28' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 69' @ 55'/hr. 20/25k WOB, 60 TDS rpm, 130 spm, 498 gpm, 139 MMTR rpm, 199 Total rpm, 350/500 psi Diff, 4000 psi SPP, 14/15k TQ. Avg MSE: 4.5. Full returns to surface.	1.25
DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 13' @ 4'/hr, 30/35k WOB, 130 spm, 498 gpm, 139 MMTR rpm, 130 psi Diff, 3600 psi SPP, GTF 90 R. Full returns to surface.	3.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 160' @ 71'/hr. Avg MSE: 6.0. Full returns to surface.	2.25
RIGSER	Service rig & top drive	0.5
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 237' @ 59.3'/hr. Avg MSE: 8.5. Full returns to surface. Change directional window to 30' Above, 0' Below, 50' Right, 75' Left	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 146' @ 36.5'/hr. Avg MSE: 7.4. Full returns to surface.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 134' @ 33.5'/hr. Avg MSE: 8.2. Full returns to surface.	4
DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 115' @ 25.6'/hr. Avg MSE: 8.4. Full returns to surface. TD production section depth 18,950' MD, 8,889' TVD @ 05:45 hr on 4/19/14.	4.5

Report #: 36 Daily Operation: 4/19/2014 06:00 - 4/20/2014 06:00

Job Category				Primary Job Type			AFE Number	
ORIG DRILLING				ODR			029578	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
35	36	18,950.0	8,889.1	11.20	H & P, 606			

Operations Summary

Clean up cycles, TOO H F/18,950' - 9,831', Clean up cycle, TOO H F/9,831' - 9,350', Clean up cycle, Circulate

Remarks

Progress: 35.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

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

Line Proximity: 64' Left, 28' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Perform clean up cycle at 18,950'. Mix and pump 3 (60 bbl) high weight sweeps of 2 pounds over with nut plug, pulling 2 stands after each sweep comes around while reciprocating pipe at 95' w/ 80 RPM, 500 GPM. 1st sweep @ 18,950' with 13,555 stks. 2nd sweep with 13,450 stks & 3rd sweep with 13,315 stks. Each clean up cycle pump 30 bbl sweep followed by 10-15 bbls of active mud to serve as a spacer followed by another 30 bbl sweep. Full returns to surface. Note: 1st sweep returned with full shakers. 2nd sweep cuttings decreased by 50% & 3rd shakers were clean.	7.5
TOOH	Pump Slug & TOO H (SLM) F/18,950' - 9,831' (500' from EOC) with trip tank, w/ no excess drag & hole is taking proper displacement. Running rabbit in DP for OBMI Logging Operations.	7.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Perform clean up cycles at 9,830'. Mix and pump 2 (60 bbl) high weight sweeps of 2 pounds over with nut plug, while reciprocating pipe at 95' w/ 60 RPM, 536 GPM, 3200 psi SPP. 1st sweep @ 9830' with 7,210 stks. 2nd sweep with 7,210 stks. Each clean up cycle pump 30 bbl sweep followed by 10-15 bbls of active mud to serve as a spacer followed by another 30 bbl sweep. Full returns to surface. Note: 1st sweep around with 50% cuttings @ shakers, 2nd sweep around with shakers clean.	3
TOOH	TOOH (SLM) F/9,830' (500' from EOC) - 9,350' (EOC) with trip tank, w/ no excess drag & hole is taking proper displacement. Running rabbit in DP for OBMI Logging Operations.	0.5
CIRC	Perform clean up cycles at 9,350'. Mix and pump 2 (60 bbl) high weight sweeps of 2 pounds over with nut plug, while reciprocating pipe at 95' w/ 60 RPM, 536 GPM, 2900 psi SPP. 1st sweep @ 9,350' with 6,890 stks. 2nd sweep @ 9,350' with 6,890 stks. Clean up cycles pump 30 bbl sweep followed by 10-15 bbls of active mud to serve as a spacer followed by another 30 bbl sweep. Full returns to surface. Note: Having to stage pumps up due to hole trying to pack off. 1st sweep around with full shakers, 2nd sweep around with 75% cutting at shakers. 3rd sweep around with minimal cuttings at shakers.	3
U_WT	Waiting on Schlumberger Logging Services. Note: Richard with Schlumberger Logging called @ 03:30 hrs to say that they will not be on location until 3pm because Logging Specialist was unable to get a flight & will be driving here from Liberty, Tx. Notified superintendent & decision was made to keep circulating at 9,350' (EOC) while reciprocating pipe at 95' until further directions. Schlumberger was given a 24 hr notice @ 06:00 hrs on 4/19/14.	2.5

Report #: 37 Daily Operation: 4/20/2014 06:00 - 4/21/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	029578
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
36	37	18,950.0
		End Depth (TVD) (ftKB)
		8,889.1
		Dens Last Mud (lb/gal)
		11.30
		Rig
		H & P, 606

Operations Summary
Circulate, TOOH F/9,350' - BHA, L/D BHA #10, Remove & inspect wear bushing & re-install, R/U Schlumberger logging tools, TIH F/126' - 7,970', Slip & cut drill line

Remarks
Progress: 36.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

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

Line Proximity: 64' Left, 28' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
U_WT	Circulating @ 9,350' (EOC) while waiting on Schlumberger Logging Services. Note: Richard with Schlumberger Logging called @ 03:30 hrs on 4/20/14 to say that they will not be on location until 3pm because Logging Specialist was unable to get a flight & will be driving here from Liberty, Tx. Notified superintendent & decision was made to keep circulating at 9,350' (EOC) while reciprocating pipe 95' until further directions. Schlumberger was given a 24 hr notice @ 06:00 hrs on 4/19/14.	2.5
TOOH	TOOH (SLM) F/9,350' (EOC) - BHA with trip tank, w/ no excess drag & hole is taking proper displacement. PJSM on L/D DP from derrick, L/D 75 joints of DP due to no room in derrick. Note: Running rabbit in DP for OBMI Logging Operations.	7
BHA	Lay down BHA #10, Clean OBM off rig floor & get floor organized. Bit Grade: 1-4, 1/16 out of gauge, chipped/broken cutters.	2.5
WLHEAD	Remove & inspect wear bushing (ok). Wash out well head with wash sub and install wear bushing (Turned wear bushing 1/4 turn before installing), lock down wear bushing with lock screws. Note: Function test of BOPE- Good.	1.5
RU/RD EQUIPT	Rig Up Schlumberger down hole logging tools. Pick up & make up OBMI - Oil base imager, GPIT- Inclinery tool, DSI - Sonic tool, HNGS- Spectral gamma ray, EDTC - Telometry & gamma ray, Tension/compression sub, total gr, & wet connect. Operational check of wireline tools @ surface (Good)	2.75
WIRELINE	TIH with logging tools F/129' - 7,970' md @ 60'/min. Filling DP every 20 stands w/ 5 bpm per Schlumberger engineer's recommendations. Hole displacing properly into trip tank. Note: Had to pick up 75 joints that were laid down & rabbit each jt of DP for OBMI Logging Operations.	7.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CUTDL	Slip & cut 81' (9 wraps) of drilling line.	0.5

Report #: 38 Daily Operation: 4/21/2014 06:00 - 4/22/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
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Days From Spud (days) 37	Days on Location (days) 38	End Depth (ftKB) 18,950.0	End Depth (TVD) (ftKB) 8,889.1	Dens Last Mud (lb/gal) 11.25	Rig H & P, 606
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Operations Summary

Slip & cut drill line, Install side entry sub & float sub, Run in wireline & latch up head, TIH Logging F/7,970' - 13,527', TOOH Logging F/13,527' - 8,001', Retrieve wireline, L/D float sub & side entry sub, R/D crane & wireline Equip

Remarks

Progress: 37.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

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

Line Proximity: 64' Left, 28' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
CUTDL	Slip & cut 81' (9 wraps) of drilling line.	2
WIRELINE	PJSM W/ Rig Crew, SLB WL & Comapny Rep. to R/up WL Equip. Install side entry sub & split bushings. Install float sub & flapper type float valve on top of side entry sub. Run in with wireline & latch up head, confirmed tools powered up. Install cable clamp on side entry sub & pull test (Ok).	3
WIRELINE	TIH F/7,970' - 13,527'. Running in @ 25'/min logging spectral gamma on way in. Hole displacing properly into trip tank. Filling DP every 10 stands.	8.5
WIRELINE	TOOH F/13,527' - 8,001'md @ 25'/min logging spectral gamma & Oil base imaging. Hole taking proper fill out of trip tank. Note: Due to hole conditions from logging interpretaions coming out of hole & logging Oil base imaging. Decision was made to suspend logging & TOOH to run casing.	8
WIRELINE	Retrieve wireline, Break float sub & side entry sub, L/D same. R/D wireline equipment & crane.	2.5

Report #: 39 Daily Operation: 4/22/2014 06:00 - 4/23/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
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Days From Spud (days) 38	Days on Location (days) 39	End Depth (ftKB) 18,950.0	End Depth (TVD) (ftKB) 8,889.1	Dens Last Mud (lb/gal) 11.10	Rig H & P, 606
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Operations Summary

R/D wireline & crane, TOOH F/8,001' - 1,807', Service Rig, TOOH 1,807' - Logging BHA, L/D logging tools, Remove & inspect wear bushing, Clean & organize floor, P/U & R/U H&P CRT & torque turn, P/U & M/U 2 jt shoe track w/ reaming shoe, latch-in double valve float collar, pup jts & toe sleeve & test (Ok), RIH w/5-1/2" 20# P110 BTC casing F/126' - 4,624'

Remarks

Progress: 38.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

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

Line Proximity: 64' Left, 28' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
WIRELINE	R/D wireline equipment & crane.	0.5
TOOH	TOOH F/8,001' - T/1807' with trip tank, w/ no excess drag & hole is taking proper displacement. L/D 21 joints of HWDP & 54 joints of DP due to no room in derrick.	6
RIGSER	Service rig & top drive	0.5
TOOH	TOOH F/1807' T/Logging BHA with trip tank, w/ no excess drag & hole is taking proper displacement.	1
WIRELINE	R/D SLB BHA (Logging tools hanger & x-over). All logging tools recover with no apparent damage.	1.5
WEARBUS HING	Remove & Inspect wear bushing (ok). Wash out well head. Place wear bushing by conex.	1
SAFETY	Clear tools and equip. & clean rig floor to run production casing.	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CASE	JSA with H&P rig crew & PNR representative over rigging up CRT & Torque turn equip. P/U & R/U H&P CRT, Torque Turn & Casing equipment. Tesco pre-Installed torque rings in all csg.(max torque 9,700). OD Casing collars - 6.125" & ID of elevators- 5.625" Caliper Torque turn with top drive.	2
CASE	M/U 5 1/2" 20# P110 BTC. Topco reamer float shoe, 2 joint shoe track, Weatherford latch in double float collar, 20' short jnt, 8' pup, GeoDynamics time delay toe sleeve, 8' pup. Tested floats - (good). Torque ring installed on 1st joint of shoe track.	1.75
CASE	TIH w/ 5 1/2" 20# P110 BTC casing F/126' - 4,624' with CRT & Torque turn. Taking returns to trip tank, hole giving proper displacement roughly 12.5 bbl's per 10 joints ran. Torque = 9,700 ft/lbs. Break cir. every 40 jts. Taking PU & SO every 1000' while inside csg. Hand caliper of Avg ID of 1st 10 jts - 4.75"	7.75

Report #: 40 Daily Operation: 4/23/2014 06:00 - 4/24/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
Days From Spud (days) 39	Days on Location (days) 40	End Depth (ftKB) 18,950.0
	End Depth (TVD) (ftKB) 8,889.1	Dens Last Mud (lb/gal) 11.25
	Rig H & P, 606	

Operations Summary

RIH w/5-1/2" 20# P110 BTC casing F/4,624' - 15,010'

Remarks

Progress: 39.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

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

Line Proximity: 64' Left, 28' Above of Directional line #1

Estimated Pad Drilling Completion date: June 1, 2014

Time Log Summary

Operation	Com	Dur (hr)
CASE	TIH w/ 5 1/2" 20# P110 BTC casing F/4,624' - 8,345' with CRT & Torque turn. Taking returns to trip tank, hole giving proper displacement roughly 12.5 bbl's per 10 joints ran. Torque = 9,700 ft/lbs. Break cir. every 40 jts. Taking PU & SO every 1000' while inside csg.	7
CIRC	Cir. Bottoms up @ 8,345', with 66 spm 253 gpm 260 spp. Taking PU & SO every 500' after getting in OH. Full returns to surface.	1
CASE	Cont. TIH w/ 5 1/2" 20# P110 BTC casing F/8,345' - 11,604'. Break cir. every 40 jts. no issues going thru curve into lateral with proper displacement.	6.75
CIRC	Cir. Bottoms up @ 11,604', with 80 spm 306 gpm 385 spp. Full returns to surface.	1.25
CASE	Cont. TIH w/ 5 1/2" 20# P110 BTC casing F/11,604' - 14,775'. Break cir. every 40 jts. Taking returns to trip tank, hole giving proper displacement.	6
CIRC	Cir. Bottoms up @ 14,775', with 81 spm, 310 gpm, 550 spp. Full returns to surface.	1.5
CASE	Cont. TIH w/ 5 1/2" 20# P110 BTC casing F/14,775' - 15,010'. Break cir. every 40 jts. Taking returns to trip tank, hole giving proper displacement.	0.5

Report #: 41 Daily Operation: 4/24/2014 06:00 - 4/25/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
Days From Spud (days) 40	Days on Location (days) 41	End Depth (ftKB) 18,950.0
	End Depth (TVD) (ftKB) 8,889.1	Dens Last Mud (lb/gal) 11.20
	Rig H & P, 606	

Operations Summary

TIH w/ 5 1/2" 20# P110 BTC casing F/15,010' - 16,310'. Increased Drag @ 16,310', Circ B/U & Work Casing F/16,345' - 16,330', Cont. TIH w/5-1/2" 20# P110 BTC casing F/16,310' - 18,804' Wash Down F/18,804' - 18,944', Land Hanger, Circ. Casing, W.O. Schlumberger

Remarks

Progress: 39.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

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

Line Proximity: 64' Left, 28' Above of Directional line #1

Estimated Pad Drilling Completion date: June 7, 2014

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CASE	Cont.TIH w/ 5 1/2" 20# P110 BTC casing F/15,010' - 16,310'. Break cir. every 40 jts. Taking returns to trip tank, hole giving proper displacement. TRRC Notified of upcoming production casing cement job @ 08:00, Talked with Janie	3
CIRC	Taking excess SO and PU/WT @ 16,310' Work casing through this spot twice and tight each time. Cir. Bottoms up F/16,345 T/16,330' to clean hole (with free pipe movement) at 81 spm, 312 gpm, 550-600 spp. Full returns to surface.	2.5
CASE	Cont.TIH w/ 5 1/2" 20# P110 BTC casing F/16,345' - 18,804'. Break cir. every 40 jts. Taking returns to trip tank, hole giving proper displacement.	4.5
CASE	M/Up & wash down last 2 joints, hanger, landing joint F/18,804 - 18,944'. Land Hanger & Visually Confirm	2
CIRC	Circulate 1 casing volume (420 bbls) with 4600 strokes @ 8 bpm, 88 spm, 700 psi W/ full returns, while waiting on Schlumberger cementers. Shoe depth: 18,944' md. Float Collar depth: 18,858' md. Shoe track length: 85.24' Toe Sleeve: 18825 md Marker's @ 8,344' & 8,139' md. Ran 34 rigid body centralizers. 1 every joint from 8,303' - 9,192'. 1 every 4th joint from 7,413 - 8,228'.	1
CIRC	Circulating, waiting on Schlumberger.	11

Report #: 42 Daily Operation: 4/25/2014 06:00 - 4/26/2014 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 029578
Days From Spud (days) 41	Days on Location (days) 42	End Depth (ftKB) 18,950.0
	End Depth (TVD) (ftKB) 8,889.1	Dens Last Mud (lb/gal) 11.20
	Rig H & P, 606	

Operations Summary

Circ, W.O.Schlumberger, Cement 5-1/2" Production Casing, R/D H&P CRT, N/D BOP's, Install Packoff, Install Cap, Release rig.

Remarks

Progress: 40.44 days from rig accepted (3/15/2014 @ 19:30 hrs)

Rig NPT: 0.0 hours for previous 24 hours; 9.5 for month of April

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

Line Proximity: 64' Left, 28' Above of Directional line #1

Estimated Pad Drilling Completion date: June 7, 2014

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Time Line: 1. SLB notified by PXD company rep. @ 6:30 4/19/14 we have TD and should be ready to cement in ~ 3 days. 2. Cement (3) silo's arrive on location 4/20/14. 3. PXD company rep. ordered cement to be loaded for the silo's @ 9:45 hrs 4/22/14 4. PXD company rep. called @ 06:30 4/24/14 for all equip. & cement (no cement has been sent to location) to be on location by 14:00 hrs.with lab reports. 5. Landed casing @ 18:00 hrs. 4/24/14. Circulate 1 hr. to 19:00 hrs, now waiting on SLB. 6. All cement on location @ 07:00 hrs. 4/25/14. Circulating, waiting on Schlumberger cement & lab reports. Conduct PJSM for rig/up treating iron on rig floor & Cement job w/H&P rig crew, SLB, Seaboard, Tool Pusher & PXD Company Rep while waiting on lab reports. Rig up all treating iron to rig floor. Test lines offline to 4,500 psi while waiting on lab reports. Rig down Katch Kan while waiting on lab reports.	9

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
CMT	<p>Schlumberger mixed & pumped cement as follows:</p> <p>Mudpush Express - 47.5 bbls @ 11.2 lb/gal. Mixed with 1.0 lb/bbl of mudpush express B389, 1.0 gal/bbl of surfactant B220, 0.2 gal/bbl of anti foam D206, 157.2 lb/bbl of weighting agent D031.</p> <p>TXI Lead Slurry - 268 bbls @ 11.5 lb/gal, 2.19 yield, 12.838 gal/sk H2O. Mixed with 75 lb/sk cement D049, 0.5% BWOC fluid loss D207, 7.0% BWOC extender D020, 0.2% anti foam D046, 0.8% BWOC retarder D013, 0.1% BWOC viscosifier D208 and 0.1% BWOC D065 Dispersant.</p> <p>TXI Tail Slurry - 619 bbls @ 12.5 lb/gal, 1.66 yield, 8.919 gal/sk H2O. Mixed with 75 lb/sk cement D049, 0.5% BWOC fluid loss D207, 0.2% BWOC anti foam D046, 0.8% BWOC retarder D013, 7.0% BWOC extender D020 and 0.1% BWOC dispersant D065..</p> <p>PNR representative(s) observed installation of both bottom & top plug. Displaced with 417 bbls @ 8.32 lb/gal mixed with 0.084 gal/bbl green-cide 25G B244. Bump plug @ 19:50 hrs 4/25/14 with 500 psi over final lift pressure of 2510 psi (3019 psi). Held pressure for 15 min, floats held. Released pressure @ 20:05 hrs, bled back 4 bbls.</p> <p>Circulated 47.5 bbls Mudpush to surface.</p> <p>Circulated 66 bbls Lead Cement to surface.</p> <p>Note: After bumping top plug monitored well for flow on flow line for 15 min, well was static.</p> <p>Lift Pressures:50 bbl- 6.4 bpm- 1019 psi, 100 bbls- 6.4 bpm- 1441 psi, 150 bbls- 6.4 bpm- 1937 psi, 200 bbls- 6.4 bpm- 2464 psi, 250 bbls- 6.4 bpm- 2625 psi, 300 bbls- 5.1 bpm- 2536 psi, 350 bbls- 5.1 bpm- 2622 psi, 400 bbls- 4.1 bpm- 2561 psi, 410 bbls- 3.6 bpm- 2510 psi.</p> <p>*Maintained full returns to surface throughout cement job.</p>	5
CMT	Pump fresh water through BOP stack, Flowline and Choke Manifold to clear OBM and any possible cement.	1
CMT	PJSM & Rig down Schlumberger cement equipment.	1
WLHEAD	Drain Stack. Back off landing joint, pull out and install running tool and pack off. Attempt to clean packoff seat. Seaboard Rep.recommended N/D BOP's, pressure wash seat, then set packoff.	0.5
RU/RD EQUIPT	PJSM & R/D Casing tools and CRT	2
RIGSER	Perform 2 point calibration and Crown Saver Test	0.5
NU/ND BOP	Held PJSM, Nipple down flow line & hang off. N/D bell nipple & lay down out of way. N/D choke line & kill line. N/D BOP's and Rack back	4
WLHEAD	<p>Install Packoff, Energize seals & Install Dry Hole Cap and close all the valves. Prepare to skid to University 3-19 46H</p> <p>Note: Release rig from University 3-19 45H to University 3-19 46H at 0600 hrs on 4/26/14</p>	1

Report #: 1 Daily Operation: 6/29/2014 06:00 - 6/30/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	029841
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
106	1	0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

Clean cellar. NU Anns to top of cellar.

Remarks

Clean cellar. NU Anns to top of cellar.

Time Log Summary

Operation	Com	Dur (hr)
SDFN	SDFN	2
SAFETY	PJSM	0.5
MIRU	MIRU, Clean cellar, nipple up annulars to top of cellar. fill cellar with pea gravel. Dress location.	8.5
SDFN	SDFN	13

Report #: 2 Daily Operation: 7/2/2014 06:00 - 7/3/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	029841
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
109	2	0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

Install B section valves, Frac valve, and flow cross

Remarks

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
OTHR	standby for arrival of B section, frac valves, and flowcross	10.5
WOV	Seaboard B section valves and Priority Frac valves and Flowcrosses on location. Wait on Seaboard torque wrenches	5
OTHR	Install B section. Energize seals to 8,000#. Test void to 5,000#. Install frac valve and flow cross and torque same.	1
OTHR	Secure well and wait on wireline operations	7.5

Report #: 3 Daily Operation: 7/3/2014 06:00 - 7/4/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
110	3	0.0					

Operations Summary

Make GR/JB run, Run CBL with pressure pass, Log to surface

Remarks

Make GR/JB run, Run CBL with pressure pass, Log to surface

Time Log Summary

Operation	Com	Dur (hr)
SDFN	Waiting on wireline	1.5
OTHR	Waiting for wireline to make run in #44H	1.5
WLOTHR	M/U and RIH with 4.625" GR/JB to 9182' WLM. POOH and swing over to #46H	1
WLOTHR	Standby while logging #46	5.75
WLOTHR	RIH with CBL/GR to 9243', logging up to Ratty Cement at 8575'. RIH to 9268' and pressure up casing to 1500 psi. Log to surface. Estimated Top of Cement +/- 380' Swing over to #44H	3.75
SDFN	Secure well for night	10.5

Report #: 4 Daily Operation: 7/4/2014 06:00 - 7/5/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
111	4	0.0					

Operations Summary

Test Surf csg to 1500 psi, psi dropped 865 psi in 5 min.

Pump on 5.5" csg to 6500 psi, monitor for 15 min. Bring psi to 9500 and monitor. Sleeve opened 9 min total. Pump 3 bpm for 1 min, Shut down. ISIP=6504 psi.

Remarks

Test Surf csg to 1500 psi, psi dropped 865 psi in 5 min.

Pump on 5.5" csg to 6500 psi, monitor for 15 min. Bring psi to 9500 and monitor. Sleeve opened 9 min total. Pump 3 bpm for 1 min, Shut down. ISIP=6504 psi

Time Log Summary

Operation	Com	Dur (hr)
OTHR	Wait for daylight	1.25
OTHR	Install Surface Trap data Equipment	1
OTHR	Standby while shifting other sleeves.	4.25
OPEN_SLE EVE	Test lines to 2500 psi. Pump down surface casing to 1500 psi, monitor for 5 min. Pressure dropped down to 700 psi. Make up lines to flowcross. Test lines to 2500 psi lo and 10,000 psi high. Open W/H and pump at 1.5 bpm to 6800 psi, monitor for 10 min. Pump at 1.5 bpm to 9500 psi monitor pressure. After 4 minutes, needle valve guts gave up on B section valve. Found the valve had been left open. Close B section valve and walk pressure back up to 9500 psi, After 4 min, sleeve opened. Bring rate to 3 bpm for 1 min. Shut down. ISIP=6504. psi. Move iron to #44H. Well secure.	1
OTHR	Well secured	16.5

Report #: 5 Daily Operation: 7/16/2014 06:00 - 7/17/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
123	5	0.0			PIONEER NATURAL RESOURCES, 6		

Operations Summary

Rig up frac equipment.

Remarks

Rig up frac equipment.

Time Log Summary

Operation	Com	Dur (hr)
RURD	Miru PPS frac equipment. Spot Crest pd trucks, spotted Lee Specialties crane & 10k lubricator on adjacent pad. Ru Select water transfer lines & crossings// Pre-Load Sand in movers// RU K&B Flow back	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 6 Daily Operation: 7/17/2014 06:00 - 7/18/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841
Days From Spud (days) 124	Days on Location (days) 6	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6	

Operations Summary

Rig up frac equipment.

Remarks

Rig up frac equipment.

Day Supervisors-Oz Flores & Trey Armstrong

Night Supervisors-Will Lemmons & Donny Reza

PPS Downtime: 0.0 hrs. Cum. 0.0 hrs.

Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.

Select Downtime: 0 hrs. Cum. 0.0 hrs.

Lee Specialties WL Downtime: 0 hrs. 0 hrs.

Crest Downtime: 0 hrs. Cum. 0 hrs.

Priority: 0 hrs. Cum. 0 hrs.

Waiting on Weather 0 hrs. Cum. 0 hrs.

Waiting on Proppant 0 hrs. Cum. 0 Hrs.

Time Log Summary

Operation	Com	Dur (hr)
MIRU	Continue to MIRU frac spread and all support equipment	24

Report #: 7 Daily Operation: 7/18/2014 06:00 - 7/19/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 029841	
Days From Spud (days) 125	Days on Location (days) 7	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6		

Operations Summary

Well SI, waiting on 46H frac(first 5 stg).

Remarks

Well SI, waiting on 46H frac(first 5 stg).

Day Supervisors-Oz Flores & Trey Armstrong

Night Supervisors-Will Lemmons & Donny Reza

PPS Downtime: 0.0 hrs. Cum. 0.0 hrs.

Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.

Select Downtime: 0 hrs. Cum. 0.0 hrs.

Lee Specialties WL Downtime: 0 hrs. 0 hrs.

Crest Downtime: 0 hrs. Cum. 0 hrs.

Priority: 0 hrs. Cum. 0 hrs.

Waiting on Weather 0 hrs. Cum. 0 hrs.

Waiting on Proppant 0 hrs. Cum. 0 Hrs.

Time Log Summary

Operation	Com	Dur (hr)
WOF	Well SI, waiting on 46H frac(first 5 stg).	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 8 Daily Operation: 7/19/2014 06:00 - 7/20/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 126	Days on Location (days) 8	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6

Operations Summary

Perf Stage 2 and log lateral with GR/CCL while POOH..
Well SI, waiting on 46H frac(first 5 stg).

Remarks

Day Supervisors-Oz Flores & Trey Armstrong
Night Supervisors-Will Lemons, Donny Reza & Fabian Sotelo

PPS Downtime: 0.0 hrs. Cum. 0.0 hrs.
Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.
Select Downtime: 0 hrs. Cum. 0.0 hrs.
Lee Specialties WL Downtime: 0 hrs. 0 hrs.
Crest Downtime: 0 hrs. Cum. 0 hrs.
Priority: 0 hrs. Cum. 0 hrs.
Waiting on Weather 0 hrs. Cum. 0 hrs.
Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 500 bbls

RT: 0 bbls

CR:0 bbls

LTR: 500 bbls

TSIF: 0 lbs

Time Log Summary

Operation	Com	Dur (hr)
WOF	Well SI, waiting on 46H frac(first 5 stg).	15.75
PERF	RU Ark-La-Tex WL for Stage # 2 of 30. RIH & pump down Weatherford CBP & 5 each 3 1/8" guns. Set CBP @ 17,779' perforate intervals 17,748' - 17,750' & 17,688' - 17,690' & 17,628' - 17,630' & 17,568' - 17,570' & 17,508'-17,510' w/ 8 shots, 4 SPF, 60*, 21.5 GR, 0.42" EHD, perf guns. 40 holes total. POOH while logging with GR/CCL to surface. All shots fired. RD WL. Pump down at 14 Bpm at 6700 PSI and 250 Ft/Min. Line Speed. BBLs Pumped: 500 BBLs FTR Total: 500 BBLs	5.25
WOF	Well SI, waiting on 46H frac(first 5 stg).	3

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 9 Daily Operation: 7/20/2014 06:00 - 7/21/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 127	Days on Location (days) 9	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac Stage 2 thru 4
WL Stage 3 thru 4

Protechnics ran chemical tracer on all stages
Held 1,500 psi on the intermediate casing

Remarks

Day Supervisors-Oz Flores & Trey Armstrong
Night Supervisors-Will Lemons & Fabian Sotelo

PPS Downtime: 0.75 hrs. Cum. 0.75 hrs.
Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.
Select Downtime: 0 hrs. Cum. 0.0 hrs.
Lee Specialties WL Downtime: 0 hrs. 0 hrs.
Crest Downtime: 0 hrs. Cum. 0 hrs.
Priority: 0 hrs. Cum. 0 hrs.
Waiting on Weather 0 hrs. Cum. 0 hrs.
Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 25684 bbls

RT: 0 bbls

CR:0 bbls

LTR: 25684 bbls

TSIF: 1,016,701 lbs

Time Log Summary

Operation	Com	Dur (hr)
WOF	WSI, Waiting on Frac Ops on the #46H	3.5
WOF	PPS Changing over to 45H and repairing pump. Crest pressuring up on BS.	0.75
STIM	<p>Frac Stage # 2 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 36 bbls 15% HCL 345,383 # 30/50 & 7737 BBLS Hybrid fluid, down 5.5' CSG, held 1500 psi on CSG.</p> <p>Formation broke @ 30 BPM/ 4580 PSI</p> <p>Step Down: 80 bpm @ 6529 PSI 60 bpm @ 5525 PSI 40 bpm @ 4565 PSI 20 bpm @ 3773 PSI Pad ISIP: 3178 PSI Pad F.G.:0.78 5 min- 2995</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 6 cp.@ 82* Pumped 2878 bbl pad. Held 9 cp @ 81 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 72.5 BPM Avg PSI: 7248 Max rate: 79.9 BPM Max PSI: 7915</p> <p>ISIP: 3374 PSI FG .81</p> <p>FTR Total: 8237 BBLS LTR Total: 8237 BBLS Total SIF: 345,383#</p>	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary		
Operation	Com	Dur (hr)
PERF	<p>RU Ark-La-Tex WL for stage #3 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 17,479' Perforated Intervals: 17,448'-17,450'/ 17,388'-17,390'/ 17,328'-17,330'/ 17,268'-17,270' / 17,208'-17,210 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 12 bpm / 3750 psi. Line Speed 290 ft/min</p> <p>Used 343 bbls LTR Total 8,580 Bbls</p>	2.25
WOF	WSI, Waiting on Frac Ops on the #46H	0.75
WOF	PPS Repairing 2 pumps, and blast joint.	1.25
STIM	<p>Frac Stage # 3 of 30. Test stack to 9,500 PSI , Frac perfs as proposed W/ 36 bbls 15% HCL 336,303 lbs 30/50 & 9060.0 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 3809 PSI</p> <p>Step Down: 80 bpm @ 6514 PSI 60 bpm @ 5347 PSI 40 bpm @ 4445 PSI 20 bpm @ 3651 PSI Pad ISIP: 3204 PSI Pad F.G.: .79 5 min- 2,843 psi</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9 cp.@ 85* Pumped 3686 bbl pad. Held 9 cp @ 86 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 74.1 BPM Avg PSI: 7037.0 Max rate: 80 BPM Max PSI: 8152</p> <p>ISIP: 3,366 PSI FG .81 FTR Total: 17640.0 BBLS LTR Total: 17640.0 BBLS Total SIF: 681,686 lb</p> <p>Note: Held pad due to bad Xlink adjusted and started sand when Xlink was good</p>	2.25
PERF	<p>RU Ark-La-Tex WL for stage #4 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 17,179' Perforated Intervals: 17,148'-17,150'/ 17,088'-17,090'/ 17,028'-17,030'/ 16,968'-16,970' / 16,908'-16,910 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 12 bpm / 4,200 psi. Line Speed 295 ft/min</p> <p>Used 386 bbls LTR Total 18,026 Bbls</p>	3.5
WOF	WSI, Waiting on Frac Ops on the #46H	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage # 4 of 30. Test stack to 9,500 PSI , Frac perfs as proposed W/ 33 bbls 15% HCL 335015 lbs 30/50 & 7658 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/4041 PSI</p> <p>Step Down: 80 bpm @ 6256 psi 60 bpm @ 5330 psi 40 bpm @ 4530 psi 20 bpm @ 3870 psi Pad ISIP: 3540 PSI Pad F.G.: .82 5 min- 3210</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 8 cp.@ 85* Pumped 2286 bbl pad. Held 9 cp @ 81 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 67.3 BPM Avg PSI: 7051 Max rate: 80 BPM Max PSI: 8267</p> <p>ISIP: 3393 PSI FG .81 FTR Total: 25684 BBLS LTR Total: 25684 BBLS Total SIF: 1,016,701 lb</p> <p>Note: Lost one frac pump due to transmission line @ 400 bbls into the 3 lb 30/50 causing max rate to be 77 bpm// Start of flush a second frac pump shut itself down causing max rate to be 70 bpm finished flush out and PPS is making repairs.</p>	2.25
WLOTHR	Ark-La-Tex WL had a miss run on perf stg 9 of the 46H// Waiting on WL operations to perf stg 5 of the 45H	3.75

Report #: 10 Daily Operation: 7/21/2014 06:00 - 7/22/2014 06:00

Job Category		Primary Job Type		AFE Number	
ORIG COMPLETION		OCM		029841	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
128	10	0.0			PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac Stage 5 thru 6
WL Stage 5 thru 7

Protechnics ran chemical tracer on all stages
Held 1,500 psi on the intermediate casing

Remarks

Day Supervisors-Oz Flores & Trey Armstrong
Night Supervisors-Will Lemons & Fabian Sotelo

PPS Downtime: 0 hrs. Cum. 0.75 hrs.
Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.
Select Downtime: 0 hrs. Cum. 0.0 hrs.
Lee Specialties WL Downtime: 0 hrs. 0 hrs.
Crest Downtime: 0 hrs. Cum. 0 hrs.
Priority: 0 hrs. Cum. 0 hrs.
Waiting on Weather 0 hrs. Cum. 0 hrs.
Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 42,037 bbls

RT: 0 bbls

CR:0 bbls

LTR: 42,037 bbls

TSIF: 1,690,997 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary		
Operation	Com	Dur (hr)
PERF	<p>RU Arklatex WL for stage #5 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 16,879' Perforated Intervals: 16,848'-16,850'/ 16,788'-16,790'/ 16,728'-16,730'/ 16,668'-16,670' / 16,608'-16,610 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 12 bpm / 4,000 psi. Line Speed 295 ft/min</p> <p>Used 345 bbls LTR Total 26029 Bbls</p>	3
WOF	WSI, Waiting on Frac Ops on the #46H	4
STIM	<p>Frac Stage # 5 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 36 bbls 15% HCL 338,691 lbs 30/50 & 7692 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM 4452 PSI</p> <p>Step Down: 80 bpm @ 6623 psi 60 bpm @ 5606 psi 40 bpm @ 4709 psi 20 bpm @ 3870 psi Pad ISIP: 3529 PSI Pad F.G.: 0.82 5 min- 4044</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 8 cp.@ 85* Pumped 2286 bbl pad. Held 9 cp @ 85 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 72 BPM Avg PSI: 7190 Max rate: 81 BPM Max PSI: 8327</p> <p>ISIP: 4044 PSI FG .88 FTR Total: 33,721 BBLS LTR Total: 33,721 BBLS Total SIF: 1,355,392 lb</p> <p>Note: Lost one frac pump due to transmission line @ 400 bbls into the 3 lb 30/50 causing max rate to be 77 bpm// Start of flush a second frac pump shut itself down causing max rate to be 70 bpm finished flush out and PPS is making repairs.</p>	2.25
PERF	<p>RU Ark-La-Tex WL for stage #6 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 16,579' Perforated Intervals: 16,548'-16,550'/ 16,488'-16,490'/ 16,428'-16,430'/ 16,368'-16,370' / 16,308'-16,310 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 12 bpm / 4,100 psi. Line Speed 305 ft/min</p> <p>Used 332 bbls LTR Total 34053 Bbls</p>	3
WOF	Well SI waiting on 46H frac to be completed.	3.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary						
Operation	Com					Dur (hr)
STIM	FRAC STG #6 of 30: Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 36 bbls 15% HCL, 335605 lbs. 40/70 Brady sand & 7653 bbls of hybrid fluid linear/xlink down 5.5" csg. Step Test: 80 bpm @ 6233 psi. 60 bpm @ 5435 psi. 40 bpm @ 4620 psi. 20 bpm @ 4005 psi Pad ISIP: 3644 psi FG: .84 psi/ft 5 min. sip: 3409 psi Formation broke @ 20 bpm @ 4113 psi. Increased rate to 80 bpm. Started Stage w/ 15 lb gel Equivalent gel loading, 9 cp.@ 88 *F Pumped 2286 bbl pad. Ramped 40/70 brown sand from 0.5 ppg to 3.0 ppg. Flushed well with 463 bbls. Ending rate 80 bpm @ 7743 psi. Placed 100% prop in formation. Avg rate: 69.1 bpm Avg psi: 7052 psi Max rate: 80 bpm Max psi: 8142 psi Ending ISIP: 3794 psi FG: .86 psi/f LTR= 41,706 bbls. TSIF= 1,690,997 lbs.					2.25
PERF	RU Ark-La-Tex WL for Stage # 7 of 30. (Second Attempt) RIH & pump down Weatherford CFP & 5 each 3 1/8" guns. Set CFP @ 16,279' perforate intervals 16,248' - 16,250' & 16,188' - 16,190' & 16,128' - 16,130' & 16,068' - 16,070' & 16,008'-16,010' w/ 8 shots, 4 SPF, 60*, 21.5 GR, 0.42" EHD, perf guns. 40 holes total. POOH. All shots fired. RD WL. Pump down at 12 Bpm at 4200 PSI and 280 Ft/Min. Line Speed. BBLS Pumped: 331 BBLS FTR Total: 42,037 BBLS					2.5
WOF	Well SI waiting on 46H frac to be completed.					2.5
STIM	Fracing stg 7 @ time of report					1.25
Report #: 11 Daily Operation: 7/22/2014 06:00 - 7/23/2014 06:00						
Job Category			Primary Job Type		AFE Number	
ORIG COMPLETION			OCM		029841	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
129	11	0.0			PIONEER NATURAL RESOURCES, 6	
Operations Summary Frac Stage 7 thru 9 WL Stage 8 thru 9 Protechnics ran chemical tracer on all stages Held 1,500 psi on the intermediate casing						
Remarks Day Supervisors-Oz Flores & Trey Armstrong Night Supervisors-Will Lemmons & Fabien Sotelo PPS Downtime: 1.75 hrs. Cum. 2.5 hrs. Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs. Select Downtime: 0 hrs. Cum. 0.0 hrs. Lee Specialties WL Downtime: 0 hrs. 0 hrs. Crest Downtime: 0 hrs. Cum. 0 hrs. Priority: 0 hrs. Cum. 0 hrs. Waiting on Weather 0 hrs. Cum. 0 hrs. Waiting on Proppant 0 hrs. Cum. 0 Hrs. FTR: 65,471 bbls RT: 0 bbls CR:0 bbls LTR: 65,471 bbls TSIF: 2,699,050 lbs						

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage # 7 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 36 bbls 15% HCL 335,985 # 30/50 & 7,721 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4080 PSI</p> <p>Step Down: 80 bpm @ 6355 60 bpm @ 5392 40 bpm @ 4575 20 bpm @ 3930 Pad ISIP: 3578 PSI Pad F.G.:0.83 5 min- 3139</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 6 cp.@ 79* Pumped 2867 bbl pad. Held 9 cp @ 80 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 69.9 BPM Avg PSI: 6809 Max rate: 82.1 BPM Max PSI: 8026</p> <p>ISIP: 3608 PSI FG .84 FTR Total: 49,758 BBLS LTR Total: 49,758 BBLS Total SIF: 2,026,982#</p>	1.75
PERF	<p>RU Ark-La-Tex WL for stage #8 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 15,979' Perforated Intervals: 15,948'-15,950'/ 15,888'-15,890'/ 15,828'-15,830'/ 15,768'-15,770' / 15,708'-15,710 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 14 bpm / 4380 psi. Line Speed 310 ft/min</p> <p>Used 307 bbls LTR Total 50,065 Bbls</p>	2
WOF	Waiting on frac 46H	1.25
WOF	PPS replacing packing on 1 pump and replacing stuffing box on 1 pump	1.75
STIM	<p>Frac Stage #8 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 36 bbls 15% HCL 336,169 # 30/50 & 7618 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4,393 PSI</p> <p>Step Down: 80 bpm @ 6855 PSI 60 bpm @ 5703 PSI 40 bpm @ 4762 PSI 20 bpm @ 4090 PSI Pad ISIP: 3751 PSI Pad F.G.: 0.85 5 min- 3280 PSI</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 6 cp.@ 88* Pumped 2843 bbl pad. Held 8 cp @ 90 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 80.5 BPM Avg PSI: 7429 Max rate: 81.4 BPM Max PSI: 8130</p> <p>ISIP: 3655 PSI FG .84 FTR Total: 57,683 BBLS LTR Total: 57,683 BBLS Total SIF: 2,363,151#</p>	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
PERF	<p>RU Ark-La-Tex WL for stage #9 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 15,679' Perforated Intervals: 15,648'-15,650'/ 15,588'-15,590'/ 15,528'-15,530'/ 15,468'-15,470' / 15,408'-15,410 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 15 bpm / 4350 psi. Line Speed 350 ft/min</p> <p>Used 264 bbls LTR Total 57,947 Bbls</p>	2
WOF	Waiting on frac 44H & 46H	7.25
STIM	<p>Frac Stage #9 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 26 bbls 15% HCL 335,899 lb 30/50 & 7524 BBLs Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 15 BPM 4070 PSI</p> <p>Step Down: 80 bpm @ 6069 psi 60 bpm @ 5249 psi 40 bpm @ 4611 psi 20 bpm @ 3880 psi Pad ISIP: 3694 PSI Pad F.G.: .85 5 min- 3336</p> <p>Increased rate to 80 bpm. Started Stage w/ 15 lb gel Equivalent gel loading, 9 cp. @ 85* Pumped 441 bbl pad. Held 9 cp @ 85 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 69.2 BPM Avg PSI: 6690 Max rate: 80 BPM Max PSI: 8064</p> <p>ISIP: 6690 PSI FG .87 FTR Total: 65471 BBLS LTR Total: 65471 BBLS Total SIF: 2,699,050 lb</p>	2
WOF	Waiting on WL ops of the 46H to be completed @ time of report	3.75

Report #: 12 Daily Operation: 7/23/2014 06:00 - 7/24/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	029841
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
130	12	0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
		PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac Stage 10 thru 11
WL Stage 10 thru 12

Protechnics ran chemical tracer on all stages
Held 1,500 psi on the intermediate casing

Remarks

Day Supervisors-Kevin Armstrong & Wendell Wiggins
Night Supervisors-Oz Flores & Trey Armstrong

PPS Downtime: 2.5 hrs. Cum. 5.0 hrs.
Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.
Select Downtime: 0 hrs. Cum. 0.0 hrs.
Lee Specialties WL Downtime: 0 hrs. 0 hrs.
Crest Downtime: 0 hrs. Cum. 0 hrs.
Priority: 0 hrs. Cum. 0 hrs.
Waiting on Weather 0 hrs. Cum. 0 hrs.
Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 81,426 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 81,426 bbls

TSIF: 3,372,487 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary		
Operation	Com	Dur (hr)
WOF	Waiting on frac ops on #44 & #46	2
PERF	<p>RU Ark-La-Tex WL for stage #10 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 15,379' Perforated Intervals: 15,348'-15,350'/ 15,288'-15,290'/ 15,228'-15,230'/ 15,168'-15,170' / 15,108'-15,110 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 14 bpm / 4200 psi. Line Speed 300 ft/min</p> <p>Used 261 bbls LTR Total 65,732 Bbls</p>	2
WOF	Waiting on frac ops on #44 & #46	4.75
STIM	<p>Frac Stage #10 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 31 bbls 15% HCL, 336.739 lb 30/50 & 7,573 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 15 BPM 4543 PSI</p> <p>Step Down: 80 bpm @ 6712 psi 60 bpm @ 5655 psi 40 bpm @ 4905 psi 20 bpm @ 42000 psi Pad ISIP: 3923 psi Pad F.G.: 0.87 psi/ft 5 min - 3369 psi</p> <p>Increased rate to 80 bpm. Started Stage w/ 15 lb gel Equivalent gel loading, 9 cp @ 96* Pumped 2286 bbl pad. Held 9 cp @ 96 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 78.7 BPM Avg PSI: 7474 psi Max rate: 80 BPM Max PSI: 8032 psi</p> <p>ISIP: 3908 PSI FG 0.87 psi/ft FTR Total: 73,305 BBLS LTR Total: 73,305 BBLS Total SIF: 3,035,789 lb</p>	2
PERF	<p>RU Ark-La-Tex WL for stage #11 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 15,079' Perforated Intervals: 15,048'-15,050'/ 14,988'-14,990'/ 14,928'-14,930'/ 14,868'-14,870' / 14,808'-14,810 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 13 bpm / 4400 psi. Line Speed 300 ft/min</p> <p>Used 272 bbls LTR Total 73,577 Bbls</p>	2.25
WOF	Waiting on frac ops on #46H	3.25
U_PEPXD	PPS repairing FR pump and 2 frac pumps	2.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary								
Operation		Com				Dur (hr)		
STIM		Frac Stage # 11 of 30. Test stack to 9,500 PSI , Frac perfs as proposed W/ 36 bbls 15% HCL 336,698 # 30/50 & 7592 BBLS Hybrid fluid, down 5.5' CSG Formation broke @ 20 BPM/ 4912 PSI Step Down: 80 bpm @ 7803 60 bpm @ 6431 40 bpm @ 5185 20 bpm @ 4361 Pad ISIP: 3848 PSI Pad F.G.: 0.86 5 min- 3334 Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9 cp.@ 80* Pumped 2774 bbl pad. Held 9 cp @ 82 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg. Avg rate: 80 BPM Avg PSI: 7124 Max rate: 80 BPM Max PSI: 8407 ISIP: 3950 PSI FG .88 FTR Total: 81,169 BBLS LTR Total: 81,169 BBLS Total SIF: 3,372,487#						2
PERF		RU Ark-La-Tex WL for stage #12 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 14,779' Perforated Intervals: 14,748'-14,750'/ 14,688'-14,690'/ 14,628'-14,630'/ 14,568'-14,570' / 14,508'-14,510 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 13 bpm / 4300 psi. Line Speed 300 ft/min Used 257 bbls LTR Total 81,426 Bbls						2.25
WOF		Waiting on frac ops on #46H				1		
Report #: 13 Daily Operation: 7/24/2014 06:00 - 7/25/2014 06:00								
Job Category			Primary Job Type			AFE Number		
ORIG COMPLETION			OCM			029841		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
131	13	0.0			PIONEER NATURAL RESOURCES, 6			
Operations Summary								
Frac Stage 12 Thru 14 WL Stage 13 Thru 15								
Protechnics ran chemical tracer on all stages Held 1,500 psi on the intermediate casing								
Remarks								
Day Supervisors-Kevin Armstrong & Wendell Wiggins Night Supervisors-Oz Flores & Trey Armstrong								
PPS Downtime: 3.25 hrs. Cum. 8.25 hrs. Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs. Select Downtime: 0 hrs. Cum. 0.0 hrs. Lee Specialties WL Downtime: 0 hrs. 0 hrs. Crest Downtime: 0 hrs. Cum. 0 hrs. Priority: 0 hrs. Cum. 0 hrs. Waiting on Weather 0 hrs. Cum. 0 hrs. Waiting on Proppant 0 hrs. Cum. 0 Hrs.								
FTR: 105,202 bbls								
RT: 0 bbls								
CR: 0 bbls								
LTR: 105,202 bbls								
TSIF: 4,044,240 lbs								

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary		
Operation	Com	Dur (hr)
WOF	Waiting on frac operations on 46H	2
U_PEPXD	Replaced butterfly valve on missile. Clean out all the pumps and lines on the Chemical Van due to water infiltration in FR.	2.5
STIM	<p>Frac Stage # 12 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 53 bbls 15% HCL 335,673 # 30/50 & 7,577 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 40 BPM/4773 PSI</p> <p>Step Down: 80 bpm @ 6,919 60 bpm @ 5,902 40 bpm @ 5,038 20 bpm @ 4,308 Pad ISIP: 3,906 PSI Pad F.G: 0.87 5 min- 3,268</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 7.4 cp.@ 88* Pumped 2,283 bbl pad. Held 9 cp @ 88 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 78.7 BPM Avg PSI: 7,404 Max rate: 81.9 BPM Max PSI: 8,080</p> <p>ISIP: 3,879 PSI FG 0.87 FTR Total: 89,003 BBLS LTR Total: 89,003 BBLS Total SIF: 3,371,462#</p>	2
PERF	<p>RU Ark-La-Tex WL for stage #13 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 14,479' Perforated Intervals: 14,448'-14,450'/ 14,388'-14,390'/ 14,328'-14,330'/ 14,268'-14,270' / 14,208'-14,210 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 14 bpm / 3900 psi. Line Speed 275 ft/min</p> <p>Used 220 bbls LTR Total 89,223 Bbls</p>	1.5
WOF	Waiting on frac operations on 46H	3.5
U_PEPXD	PPS having to dig out hopper due to electrician leaving the belt on after a repair.	0.75
STIM	<p>Frac Stage # 13 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 35 bbls 15% HCL 337,211 # 30/50 & 7685 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4730PSI</p> <p>Step Down: 80 bpm @ 7209 60 bpm @ 6237 40 bpm @ 5300 20 bpm @ 4463 Pad ISIP: 3989 PSI Pad F.G: 0.88 5 min- 3235</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 7 cp.@ 89* Pumped 2899 bbl pad. Held 8 cp @ 89 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 80 BPM Avg PSI: 7604 Max rate: 80 BPM Max PSI: 7902</p> <p>ISIP: 4022 PSI FG 0.88 FTR Total: 96,908 BBLS LTR Total: 96,908 BBLS Total SIF: 3,708,673 #</p>	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
PERF	<p>RU Ark-La-Tex WL for stage #14 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 14,179' Perforated Intervals: 14,148'-14,150'/ 14,088'-14,090'/ 14,028'-14,030'/ 13,968'-13,970' / 13,908'-13,910 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 228 bpm / 4100 psi. Line Speed 300 ft/min</p> <p>Used 228 bbls LTR Total 97,136 Bbls</p>	2
WOF	Waiting on frac operations on 46H	1.5
U_PEPXD	PPS working on valves and seats in pump.	2.5
STIM	<p>Frac Stage # 14 of 30. Test stack to 9,500 PSI , Frac perfs as proposed W/ 28 bbls 15% HCL 335,567 # 30/50 & 8066 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4897 PSI</p> <p>Step Down: 80 bpm @ 6966 60 bpm @ 6185 40 bpm @ 5317 20 bpm @ 4482 Pad ISIP: 3901 PSI Pad F.G.:0.87 5 min- 3408</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 8 cp.@ 79* Pumped 2892 bbl pad. Held 9 cp @ 78 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 69 BPM Avg PSI: 7089 Max rate: 80 BPM Max PSI: 8172</p> <p>ISIP: 3896 PSI FG .87 FTR Total: 105,202 BBLS LTR Total: 105,202 BBLS Total SIF: 4,044,240#</p>	2.25
PERF	RU Ark-La-Tex WL for stage #15 of 30. RIH @ report time	1.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 14 Daily Operation: 7/25/2014 06:00 - 7/26/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 132	Days on Location (days) 14	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6

Operations Summary

WL Stage 15

Waiting to frac stage 15. PPS had to replace 2 pumps and blender before operations could continue on the 44H & 45H

Protechnics ran chemical tracer on all stages

Held 1,500 psi on the intermediate casing

Remarks

Day Supervisors-Kevin Armstrong & Wendell Wiggins

Night Supervisors-Oz Flores & Trey Armstrong

PPS Downtime: 0.0 hrs. Cum. 8.25 hrs.

Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.

Select Downtime: 0 hrs. Cum. 0.0 hrs.

Lee Specialties WL Downtime: 0 hrs. 0 hrs.

Crest Downtime: 0 hrs. Cum. 0 hrs.

Priority: 0 hrs. Cum. 0 hrs.

Waiting on Weather 0 hrs. Cum. 0 hrs.

Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 105,426 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 105,426 bbls

TSIF: 4,044,240 lbs

Time Log Summary

Operation	Com	Dur (hr)
PERF	RU Ark-La-Tex WL for stage #15 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 13,879' Perforated Intervals: 13,848'-13,850' / 13,788'-13,790' / 13,728'-13,730' / 13,668'-13,670' / 13,608'-13,610 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 14 bpm / 3900 psi. Line Speed 300 ft/min Used 224 bbls LTR Total 105,426 Bbls	1
WOF	Waiting on frac operations on the 44H & 46H. Before frac could resume on the 44H & 46H frac crew had to replace two pumps and the blender. Downtime was logged on the 44H.	23

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 15 Daily Operation: 7/26/2014 06:00 - 7/27/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 133	Days on Location (days) 15	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac Stage 15

WL Stage 16

Protechnics ran chemical tracer on all stages

Held 1,500 psi on the intermediate casing

Remarks

Day Supervisors-Kevin Armstrong & Wendell Wiggins

Night Supervisors-Oz Flores & Trey Armstrong

PPS Downtime: 0.0 hrs. Cum. 8.25 hrs.

Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.

Select Downtime: 0 hrs. Cum. 0.0 hrs.

Lee Specialties WL Downtime: 0 hrs. 0 hrs.

Crest Downtime: 0 hrs. Cum. 0 hrs.

Priority: 0 hrs. Cum. 0 hrs.

Waiting on Weather 0 hrs. Cum. 0 hrs.

Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 113,295 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 113,295 bbls

TSIF: 4,380,360 lbs

Time Log Summary

Operation	Com	Dur (hr)
WOF	Waiting on frac operations on the 44H & 46H. Before frac could resume on the 44H & 46H frac crew had to replace two pumps and the blender. Downtime was logged on the 44H.	10
STIM	<p>Frac Stage # 15 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 46 bbls 15% HCL 336,120 # 30/50 & 7645 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4936 PSI</p> <p>Step Down: 80 bpm @ 6430 psi 60 bpm @ 5723 psi 40 bpm @ 4984 psi 20 bpm @ 4328 psi Pad ISIP: 3843 psi Pad F.G.: 0.84 5 min- 3224</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 8 cp.@ 83* Pumped 2895 bbl pad. Held 9 cp @ 85 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 80.3 BPM Avg PSI: 7509 Max rate: 82.4 BPM Max PSI: 8401</p> <p>ISIP: 3843 PSI FG .85 FTR Total: 113,071 BBLS LTR Total: 113,071 BBLS Total SIF: 4,380,360#</p>	2.25
PERF	<p>RU Ark-La-Tex WL for stage #16 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 13,579' Perforated Intervals: 13,548'-13,550'/ 13,488'-13,490'/ 13,428'-13,430'/ 13,368'-13,370' / 13,308'-13,310 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 14 bpm / 4200 psi. Line Speed 300 ft/min</p> <p>Used 224 bbls LTR Total 113,295 Bbls</p>	2
WOF	Waiting on frac operations on the 46H & 44H. Due to not having 30/50 sand frac was continued on the 46H instead of 45H.	9.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 16 Daily Operation: 7/27/2014 06:00 - 7/28/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 134	Days on Location (days) 16	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac Stage 16

WL Stage 17

Protechnics ran chemical tracer on all stages

Held 1,500 psi on the intermediate casing

Remarks

Day Supervisors-Kevin Armstrong & Wendell Wiggins

Night Supervisors-Oz Flores & Trey Armstrong

PPS Downtime: 0.0 hrs. Cum. 8.25 hrs.

Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.

Select Downtime: 0 hrs. Cum. 0.0 hrs.

Lee Specialties WL Downtime: 0 hrs. 0 hrs.

Crest Downtime: 0 hrs. Cum. 0 hrs.

Priority: 0 hrs. Cum. 0 hrs.

Waiting on Weather 0 hrs. Cum. 0 hrs.

Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 121,060 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 121,060 bbls

TSIF: 4,715,795 lbs

Time Log Summary

Operation	Com	Dur (hr)
WOZF	Waiting on frac ops on #44 and #46	13.5
STIM	<p>Frac Stage #16 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 36 bbls 15% HCL 335,435 # 30/50 & 7556 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/5530 PSI</p> <p>Step Down: 80 bpm @ 6766 60 bpm @ 5898 40 bpm @ 5182 20 bpm @ 4572 Pad ISIP: 4095 PSI Pad F.G.: 0.89 5 min- 3783</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9 cp.@ 83* Pumped 2286 bbl pad. Held 9 cp @ 82 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 80 BPM Avg PSI: 7644 Max rate: 80 BPM Max PSI: 8001</p> <p>ISIP: 4501 PSI FG 0.94 FTR Total: 120,851 BBLS LTR Total: 120,851 BBLS Total SIF: 4,715,795#</p>	2
PERF	<p>RU Ark-La-Tex WL for stage #17 of 30. RIH & pumped down w/ Weatherford CFP & 5 - 3-1/8" guns, set CFP @ 13,279' Perforated Intervals: 13,248'-13,250'/ 13,188'-13,190'/ 13,128'-13,130'/ 13,068'-13,070' / 13,008'-13,010 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 14 bpm / 3950 psi. Line Speed 300 ft/min</p> <p>Used 209 bbls LTR Total 121,060 Bbls</p>	2
WOZF	Waiting on frac ops on #44 and #46	6.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 17 Daily Operation: 7/28/2014 06:00 - 7/29/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 135	Days on Location (days) 17	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac Stage 17 thru 18
WL Stage 18 thru 19

Protechnics ran chemical tracer on all stages
Held 1,500 psi on the intermediate casing

Remarks

Day Supervisors-Kevin Armstrong & Wendell Wiggins
Night Supervisors-Oz Flores & Trey Armstrong

PPS Downtime: 0.0 hrs. Cum. 8.25 hrs.
Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.
Select Downtime: 0 hrs. Cum. 0.0 hrs.
Lee Specialties WL Downtime: 0 hrs. 0 hrs.
Crest Downtime: 0 hrs. Cum. 0 hrs.
Priority: 0 hrs. Cum. 0 hrs.
Waiting on Weather 0 hrs. Cum. 0 hrs.
Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 136,569 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 136,569 bbls

TSIF: 5,387,806 lbs

Time Log Summary

Operation	Com	Dur (hr)
WOZF	Waiting on frac ops on #44 and #46 (30/50 sand not available)	10.5
STIM	<p>Frac Stage # 17 of 30. Test stack to 9,500 PSI , Frac perfs as proposed W/ 59 bbls 15% HCL 336,299 # 30/50 & 7648 BBLS Hybrid fluid, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 5178 PSI</p> <p>Step Down: 80 bpm @ 6308 60 bpm @ 5414 40 bpm @ 4886 20 bpm @ 4342 Pad ISIP: 3905 PSI Pad F.G.: 0.87 psi/ft 5 min- 3363</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 8 cp.@ 87* Pumped 2897 bbl pad. Held 9 cp @ 86 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg.</p> <p>Avg rate: 80.2 BPM Avg PSI: 7279 Max rate: 81.1 BPM Max PSI: 8154</p> <p>ISIP: 3709 PSI FG .85 FTR Total: 128,708 BBLS LTR Total: 128,708 BBLS Total SIF: 5,052,795#</p>	2
PERF	<p>RU Ark-La-Tex WL for stage #18 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 12,979' Perforated Intervals: 12,948'-12,950'/ 12,888'-12,890'/ 12,828'-12,830'/ 12,768'-12,770' / 12,708'-12,710 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 14 bpm / 3800 psi. Line Speed 300 ft/min</p> <p>Used 189 bbls LTR Total 128,897 Bbls</p>	2
WOZF	Waiting on frac ops on #46	1.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary							
Operation		Com				Dur (hr)	
STIM		Frac Stage # 18 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 36 bbls 15% HCL 335,011 # 30/50 & 7491 BBLS Hybrid fluid, down 5.5' CSG Formation broke @ 20 BPM/ 5299 PSI Step Down: 80 bpm @ 6569 60 bpm @ 5713 40 bpm @ 5049 20 bpm @ 4475 Pad ISIP: 3896 PSI Pad F.G.:0.86 5 min- 2762 Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 6 cp.@ 81* Pumped 2770 bbl pad. Held 9 cp @ 80 *F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg. Avg rate: 73.3 BPM Avg PSI: 6943 Max rate: 80.4 BPM Max PSI: 7712 ISIP: 3746 PSI FG .85 FTR Total: 136,388 BBLS LTR Total: 136,388 BBLS Total SIF: 5,387,806# ** After shut down for pad ISIP stayed down for 15 minutes waiting on WL to get started in the hole on the 46H **				2.25	
PERF		RU Ark-La-Tex WL for stage #19 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 12,679' Perforated Intervals: 12,648'-12,650'/ 12,588'-12,590'/ 12,528'-12,530'/ 12,468'-12,470' / 12,408'-12,410 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 14 bpm / 3900 psi. Line Speed 300 ft/min Used 181 bbls LTR Total 136,569 Bbls				2	
WOZF		Waiting on frac ops on #44 and #46				3.5	
Report #: 18 Daily Operation: 7/29/2014 06:00 - 7/30/2014 06:00							
Job Category		Primary Job Type			AFE Number		
ORIG COMPLETION		OCM			029841		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
136	18	0.0			PIONEER NATURAL RESOURCES, 6		
Operations Summary							
Frac Stage 19, Perf stg 20.							
Remarks							
Day Supervisors - Kevin Armstrong & John Booher Night Supervisors - Oz Flores & Trey Armstrong PPS Downtime: 0.0 hrs. Cum. 8.25 hrs. Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs. Select Downtime: 0 hrs. Cum. 0.0 hrs. Lee Specialties WL Downtime: 0 hrs. 0 hrs. Crest Downtime: 0 hrs. Cum. 0 hrs. Priority: 0 hrs. Cum. 0 hrs. Waiting on Weather 0 hrs. Cum. 0 hrs. Waiting on Proppant 0 hrs. Cum. 0 Hrs. FTR: 144,237 bbls RT: 0 bbls CR: 0 bbls LTR: 144,237 bbls TSIF: 5,722,225 lbs							
Time Log Summary							
Operation		Com				Dur (hr)	
WOF		WSI, waiting on frac ops on #44 & #46.				18	

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary						
Operation	Com					Dur (hr)
STIM	Frac Stage # 19 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 36 bbls 15% HCL, 334,419 # 30/50 & 7503 BBLS Hybrid fluid, down 5.5' CSG Formation broke @ 20 BPM/ 5032 PSI Step Down: 80 bpm @ 6468 60 bpm @ 5657 40 bpm @ 5017 20 bpm @ 4358 Pad ISIP: 3665 PSI Pad FG 0.82 5 min- 2871 Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 8 cp @ 81 °F Pumped 2286 bbl pad. Held 9 cp @ 81 °F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg. Avg rate: 74 BPM Avg PSI: 6886 Max rate: 81 BPM Max PSI: 7592 ISIP: 3641 PSI FG 0.84 FTR Total: 144,072 BBLS LTR Total: 144,072 BBLS Total SIF: 5,722,225 LBS					2
PERF	RU Ark-La-Tex WL for stage #20 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 12,379' Perforated Intervals: 12,348'-12,350'/ 12,288'-12,290'/ 12,228'-12,230'/ 12,168'-12,170' / 12,108'-12,110 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 14 bpm / 3800 psi. Line Speed 300 ft/min Used 165 bbls LTR Total 144,237 Bbls					2
WOF	WSI, waiting on frac ops on #44 & #46.					2
Report #: 19 Daily Operation: 7/30/2014 06:00 - 7/30/2014 06:00						
Job Category			Primary Job Type			AFE Number
ORIG COMPLETION			OCM			029841
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
136	19	0.0			PIONEER NATURAL RESOURCES, 6	
Operations Summary						
Frac Stage #20, Perf stg #21.						
Remarks						
Day Supervisors - Bill Sherill & John Booher Night Supervisors - Lane Beaty & Kevin Armstrong PPS Downtime: 0.0 hrs. Cum. 8.25 hrs. Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs. Select Downtime: 0 hrs. Cum. 0.0 hrs. Lee Specialties WL Downtime: 0 hrs. 0 hrs. Crest Downtime: 0 hrs. Cum. 0 hrs. Priority: 0 hrs. Cum. 0 hrs. Waiting on Weather 0 hrs. Cum. 0 hrs. Waiting on Proppant 0 hrs. Cum. 0 Hrs. FTR: 144,237 bbls RT: 0 bbls CR: 0 bbls LTR: 151,745 bbls TSIF: 5,755,844 lbs						
Time Log Summary						
Operation	Com					Dur (hr)
WOF	Waiting on frac operations on 46H					2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary						
Operation	Com					Dur (hr)
STIM	Frac Stage # 20 of 30. Test stack to 9,500 PSI , Frac perms as proposed W/ 36 bbls 15% HCL 336,419 # 30/50 & 7365 BBLS Hybrid fluid, down 5.5' CSG Formation broke @ 15 BPM/ 4544 PSI Step Down: 80 bpm @ 6440 PSI 60 bpm @ 5598 PSI 40 bpm @ 4948 PSI 20 bpm @ 4350 PSI Pad ISIP: 3681 PSI Pad FG 0.84 5 min- 2915 PSI Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9 cp @ 80°F Pumped 7365 bbl pad. Held 9 cp @ 80 °F thru all 30/50 brown sand from 0.5 ppg thru 3.0 ppg. Avg rate: 79.6 BPM Avg PSI: 6793 Max rate: 80 BPM Max PSI: 7864 ISIP: 3838 PSI FG 0.86 FTR Total: 151,602 BBLS LTR Total: 151,602 BBLS Total SIF: 5,755,844 #					3.5
PERF	RU Ark-La-Tex WL for stage #21 of 30. RIH & pumped down w/ Weatherford CFP & 5 – 3-1/8" guns, set CFP @ 12,079' Perforated Intervals: 12,048'-12,050'/ 11,988'-11,990'/ 11,928'-11,930'/ 11,868'-11,870' / 11,808', - 11,810 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 12 bpm / 3800 psi. Line Speed 300 ft/min Used 143 bbls LTR Total 151,745 Bbls					2
WOF	Waiting on frac operations on 44H & 46H					16.5
Report #: 20 Daily Operation: 7/31/2014 06:00 - 8/1/2014 06:00						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841	
Days From Spud (days) 138	Days on Location (days) 20	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6	
Operations Summary Frac Stg #21 thru stg #22 Perf Stg #22 thru stg #23 Remarks Day Supervisors - Bill Sherill & John Booher Night Supervisors - Lane Beaty & Kevin Armstrong PPS Downtime: 0.0 hrs. Cum. 8.25 hrs. Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs. Select Downtime: 0 hrs. Cum. 0.0 hrs. Lee Specialties WL Downtime: 0 hrs. 0 hrs. Crest Downtime: 0 hrs. Cum. 0 hrs. Priority: 0 hrs. Cum. 0 hrs. Waiting on Weather 0 hrs. Cum. 0 hrs. Waiting on Proppant 0 hrs. Cum. 0 Hrs. FTR: 166,923 bbls RT: 0 bbls CR: 0 bbls LTR: 166,923 bbls TSIF: 6,426,104 lbs						

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>FRAC STG # 21 of 30 : Test stack to 9,500 psi. Hold 1580 psi on backside. PPS frac'd perfs per schedule w/ 36 bbls 15% HCL, 335,267 lbs. 30/50 Brady sand & 7465 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Step Test: 80 bpm @ 6341 psi. 60 bpm @ 5589 psi. 40 bpm @ 4941 psi. 20 bpm @ 4433 psi</p> <p>Formation broke @ 15 bpm @ 4927 psi.</p> <p>Pad ISIP: 3905 psi FG: 0.87 psi/ft 5 min. sip: 3131 psi</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9 cp. @ 77 °F Pumped 2240 bbl pad. Ramped 30/50 brown sand from 0.5 ppg to 3 ppg. Flushed well with 363 bbls. Ending rate 80 bpm 7101 psi. Placed 100% prop in formation.</p> <p>Avg rate: 80 bpm Avg psi: 7126 psi Max rate: 80 bpm Max psi: 8121 psi</p> <p>Ending ISIP: 3899 psi FG: 0.87 psi/f LTR= 159,210 bbls. TSIF= 6,091,111 lbs.</p>	2.75
PERF	<p>RU Ark-La-Tex WL for stage #22 of 30. RIH & pumped down w/ Weatherford CFP & 5 - 3-1/8" guns, set CFP @ 11,779' Perforated Intervals: 11,748'-50'/ 11,688'-90'/ 11,628'-30'/ 11,568'-70' / 11,508', - 10 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 12 bpm / 3700 psi. Line Speed 320 ft/min</p> <p>Used 113 bbls LTR Total 159,323 Bbls</p>	2.5
STIM	Down due to frac ops on 44H and 46H	9.75
STIM	<p>FRAC STG # 22 of 30: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 60 bbls 15% HCL, 334993 lbs. 30/50 Brady sand & 7479 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Step Test: 80 bpm @ 6121 psi. 60 bpm @ 5500 psi. 40 bpm @ 4945 psi. 20 bpm @ 4343 psi</p> <p>Formation broke @ 20 bpm @ 4938 psi.</p> <p>Acid on form @ 40 bpm @ 5603 psi. Acid cleared @ 40 bpm @ 5298 psi.</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9 cp. @ 78 °F Pumped 2766 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 355 bbls. Ending rate 20 bpm @ 4120 psi. Placed 100% prop in formation.</p> <p>Avg rate: 73.9 bpm Avg psi: 6746 psi Max rate: 80.7 bpm Max psi: 7247 psi Pad ISIP: 3920 psi FG: 0.87 psi/ft 5 min. sip: 3632 psi Ending ISIP: 3777 psi FG: 0.85 psi/f</p> <p>LTR= 166,802 bbls. TSIF= 6,426,104 lbs.</p>	2.25
PERF	<p>RU ARK-LA-TEX WL for Stage # 23 of 30. RIH & pump down Weatherford CFP & 5 each 3 1/8" guns. Set CFP @ 11,479 ' perforate intervals 11,208' - 11,210' & 11,268' - 11,270' & 11,328' - 11,330' & 11,388' - 11,390' & 11,488' - 11,490' w/ 8 shots, 4 SPF, 60", 21.5 GR, 0.42" EHD, perf guns. 40 holes total. POOH. All shots fired. RD WL; .Pump down at 14 Bpm at 3550 PSI and 300 Ft/Min. Line Speed</p> <p>FTR: 121 BBLS LTR Total: 169,923 BBLS</p>	2
STIM	Well shut in waiting on frac ops on the 44H and 46H.	4.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 21 Daily Operation: 8/1/2014 06:00 - 8/2/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 139	Days on Location (days) 21	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac stgs #23, 24, 25

Perfed stgs #24, 25, 26

Remarks

Day Supervisors - Bill Sherrill & John Booher

Night Supervisors - Lane Beaty & Kevin Armstrong

PPS Downtime: 0.0 hrs. Cum. 8.25 hrs.

Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.

Select Downtime: 0 hrs. Cum. 0.0 hrs.

Lee Specialties WL Downtime: 0 hrs. 0 hrs.

Crest Downtime: 0 hrs. Cum. 0 hrs.

Priority: 0 hrs. Cum. 0 hrs.

Waiting on Weather 0 hrs. Cum. 0 hrs.

Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 189,106 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 189,106 bbls

TSIF: 7,433,838 lbs

Time Log Summary

Operation	Com	Dur (hr)
STIM	Waiting on frac operations on 44H and 46H	3.75
STIM	down due to greasing frac stacks on all 3 wells	1.25
STIM	FRAC STG # 23 of 30: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 36 bbls 15% HCL, 335,487 lbs.20/40 Brady sand & 7248 bbls of hybrid fluid linear/xlink down 5.5" csg. Step Test: 80 bpm @ 5910 psi. 60 bpm @ 5293 psi. 40 bpm @ 4745 psi. 20 bpm @ 4300 psi Formation broke @ 16 bpm @ 4711 psi. Acid on form @ 16 bpm @ 3780 psi. Acid cleared @ 40 bpm @ 5250 psi. Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9.5 cp. @ 77 °F Pumped 2522 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 350 bbls. Ending rate 80 bpm @ 6125 psi. Placed 100% prop in formation. Avg rate: 80 bpm Avg psi: 6668 psi Max rate: 80 bpm Max psi: 7262 psi Pad ISIP: 3691 psi FG: 0.86 psi/ft 5 min. sip: 3460 psi Ending ISIP: 3691 psi FG: 0.85 psi/f LTR= 174,171 bbls. TSIF= 6,761,591 lbs.	2
PERF	RU ARK-LA-TEX WL for Stage # 24. RIH & pump down Weatherford CFP & 5 each 3 1/8" guns. Set CFP @ 11,179' perforate intervals 10,908' - 10,910' & 10,968' - 10,970' & 11,028' - 11,030' & 11,088' - 11,090' & 11,148' - 11,150' w/ 8 shots, 4 SPF, 60", 21.5 GR, 0.42" EHD, perf guns. 40 holes total. POOH. All shots fired. RD WL; .Pump down at 12 Bpm at 3200 PSI and 270 Ft/Min. Line Speed FTR: 88 BBLs LTR Total: 174,259 BBLs	1.75
STIM	Waiting on frac operations on 44H	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>FRAC STG # 24 of 30: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perms per schedule w/ 36 bbls 15% HCL, 336,247 lbs.20/40 Brady sand & 7131 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Step Test: 80 bpm @ 6487 psi. 60 bpm @ 5575 psi. 40 bpm @ 4972 psi. 20 bpm @ 4420 psi</p> <p>Formation broke @ 16 bpm @ 4630 psi. Acid on form @ 50 bpm @ 7385 psi. Acid cleared @ 50 bpm @ 6246 psi.</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9 cp.@ 80 °F Pumped 2465 bbl pad. Ramped 20/40 brown sand from 0.5 ppg to 3 ppg. Flushed well with 342 bbls. Ending rate 80 bpm @ 5962 psi. Placed 100% prop in formation.</p> <p>Avg rate: 69.6 bpm Avg psi: 6532 psi Max rate: 80.8 bpm Max psi: 7443 psi Pad ISIP: 4154 psi FG: 0.90 psi/ft 5 min. sip: 3662 psi Ending ISIP: 3675 psi FG: 0.84 psi/f</p> <p>LTR= 181,390 bbls. TSIF= 7,097,838 lbs.</p>	1.75
PERF	<p>RU ARK-LA-TEX WL for Stage # 25. RIH & pump down Weatherford CFP & 5 each 3 1/8" guns. Set CFP @ 10,879 ' perforate intervals 10,608' - 10,610' & 10,668' - 10,670' & 10,728' - 10,730' & 10,768' - 10,770' & 10,848' - 10,850' w/ 8 shots, 4 SPF, 60*, 21.5 GR, 0.42" EHD, perf guns. 40 holes total. POOH. All shots fired. RD WL; .Pump down at 14 Bpm at 3600 PSI and 311 Ft/Min. Line Speed</p> <p>FTR: 98 BBLS LTR Total: 181,488 BBLS</p>	2
STIM	Well shut in waiting on frac ops on the 44H	2.25
STIM	<p>FRAC STG # 25 of 30: Test stack to 9,500 psi. Hold 1500 psi on backside. PPS frac'd perms per schedule w/ 47 bbls 15% HCL, 335,609 lbs.30/50 Brady sand & 7534 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Step Test: 80 bpm @ 6760 psi. 60 bpm @ 5686 psi. 40 bpm @ 4919 psi. 20 bpm @ 4260 psi</p> <p>Formation broke @ 20 bpm @ 4870 psi. Acid on form @ 30 bpm @ 5161 psi. Acid cleared @ 30 bpm @ 4732 psi.</p> <p>Increased rate to 80 bpm. Started Stage w/ 15# gel Equivalent gel loading, 9 cp.@ 77 °F Pumped 2855 bbl pad. Ramped 30/50 brown sand from 0.5 ppg to 3 ppg. Flushed well with 335 bbls. Ending rate 80 bpm @ 6692 psi. Placed 100% prop in formation.</p> <p>Avg rate: 73.9 bpm Avg psi: 6411 psi Max rate: 80.8 bpm Max psi: 7935 psi Pad ISIP: 3844 psi FG: 0.86 psi/ft 5 min. sip: 3307 psi Ending ISIP: 3662 psi FG: 0.84 psi/f</p> <p>LTR= 189,022 bbls. TSIF= 7,433,838 lbs.</p>	2.5
PERF	<p>RU ARK-LA-TEX WL for Stage # 26. RIH & pump down Weatherford CFP & 5 each 3 1/8" guns. Set CFP @ 10,579 ' perforate intervals 10,308' - 10,310' & 10,368' - 10,370' & 10,428' - 10,430' & 10,488' - 10,490' & 10,548' - 10,550' w/ 8 shots, 4 SPF, 60*, 21.5 GR, 0.42" EHD, perf guns. 40 holes total. POOH. All shots fired. RD WL; .Pump down at 14 Bpm at 3900 PSI and 310 Ft/Min. Line Speed</p> <p>FTR: 84 BBLS LTR Total: 189,106 BBLS</p>	2
STIM	Waiting on frac ops on the 44H	2
PERF	POOH with WL and shut well in.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 22 Daily Operation: 8/2/2014 06:00 - 8/3/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 140	Days on Location (days) 22	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac stages 26 thru 28

Perfed stages 27 thru 29

Remarks

Day Supervisors - Bill Sherrill & John Booher

Night Supervisors - Lane Beaty & Kevin Armstrong

PPS Downtime: 0.0 hrs. Cum. 8.25 hrs.

Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.

Select Downtime: 0 hrs. Cum. 0.0 hrs.

Lee Specialties WL Downtime: 0 hrs. 0 hrs.

Crest Downtime: 0 hrs. Cum. 0 hrs.

Priority: 0 hrs. Cum. 0 hrs.

Waiting on Weather 0 hrs. Cum. 0 hrs.

Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 211,433 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 211,433 bbls

TSIF: 8,441,114 lbs

Time Log Summary

Operation	Com	Dur (hr)
U_PEPXD	Working on gel LA pump on hydration unit.	1
STIM	<p>FRAC STG # 26 of 30: Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 36 bbls 15% HCL, 335,666 lbs. 30/50 Brady sand & 7255 bbls of hybrid fluid linear/xlink down 5.5" csg.</p> <p>Step Test: 80 bpm @ 6089 psi. 60 bpm @ 5407 psi. 40 bpm @ 4844 psi. 20 bpm @ 4281 psi</p> <p>Pad ISIP: 4033 psi FG: 0.88 psi/ft 5 min. sip: 3419 psi</p> <p>Formation broke @ 20 bpm @ 4765 psi.</p> <p>Increased rate to 80 bpm. Started Stage w/ 15 lb gel Equivalent gel loading, 9 cp. @ 79 *F Pumped 2584 bbl pad. Ramped 30/50 brown sand from 0.5 ppg to 3.00 ppg. Flushed well with 329 bbls. Ending rate 80 bpm @ 6436 psi. Placed 100 prop in formation.</p> <p>Avg rate: 80 bpm Avg psi: 6705 psi Max rate: 80 bpm Max psi: 7725 psi Ending ISIP: 3684 psi FG: 0.84 psi/ft</p> <p>LTR= 196,361 bbls. TSIF= 7,769,504 lbs.</p>	2.5
PERF	<p>RU Ark-La-Tex Wireline for stage 27 of 30. RIH and pumpdown with Weatherford CFP - 3 1/8", 60 degree phasing, 4 spf perforating guns and set CFP at 10,279' ft. Perforated intervals: 10,248 - 50, 10,188 - 90, 10,128 - 30, 10,068 - 70 , 10,008 - 10 .</p> <p>Pump Down @ 12 bpm/ 3300 psi. Line Speed 311 ft/min. Used 54 bbls FTR Total 196,415 bbls</p>	1.5
WOZF	Waiting on 44h Frac Ops	8

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage: 27 of 30. Test stack to 9500 PSI. Hold 1,500 psi on annulus. PPS 6 fracture treat perforations per schedule with 52 bbls of 15% HCl, 336466 lbs of 30/50 Brown sand and 7471 bbls of Hybrid Linear/Crosslinked down 5.5 casing.</p> <p>Initial Wellhead Pressure: 2615 psi</p> <p>STEP DOWN</p> <p>80 bpm @ 6506 psi</p> <p>60 bpm @ 5702 psi</p> <p>40 bpm @ 4910 psi</p> <p>20 bpm @ 4231 psi</p> <p>PAD ISIP : 3846 psi PAD Frac Gradient: 0.86 psi/ft 5 min ISIP: 3049 psi</p> <p>Formation breakdown @ 20 bpm @ 5306 psi.</p> <p>Increased rate to 80 bpm. Started stage with 15 lb equivalent gel loading , 9 cP @ 81 degrees F. Pumped 2359 bbls of PAD. Step 30/50 Brown sand from 0.5 ppg to 3.00 ppg. Flushed well with 373 bbls. Placed 100% prop in formation.</p> <p>AVG Rate: 80 bpm AVG Pressure: 6871 psi</p> <p>MAX Rate 80.4 bpm MAX Pressure: 8142 psi</p> <p>Post-frac ISIP: 3582 psi Frac Gradient: 0.83psi/ft</p> <p>LTR= 203886 bbls</p> <p>TSIF= 8105970 lbs</p>	2.5
PERF	<p>RU Ark-La-Tex Wireline for stage 28 of 30. RIH and pumpdown with Weatherford CFP - 3 1/8", 60 degree phasing, 4 spf perforating guns and set CFP at 9979 ft. Perforated intervals: 9708 - 710, 9768 - 770, 9828 - 830, 9888 - 890 , 9948 -950 .</p> <p>Pump Down @ 14 bpm/ 3800 psi. Line Speed 300 ft/min.</p> <p>Used 52 bbls</p> <p>FTR Total 203,938 bbls.</p>	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage: 28 of 30. Test stack to 9500 PSI. Hold 1,500 psi on annulus. PPS 6 fracture treat perforations per schedule with 48 bbls of 15% HCl, 335144 lbs of 30/50 Brown sand and 7456 bbls of Hybrid Linear/Crosslinked down 5.5 casing.</p> <p>Initial Wellhead Pressure: 2730 psi</p> <p>STEP DOWN</p> <p>80 bpm @ 6830 psi</p> <p>60 bpm @ 6159 psi</p> <p>40 bpm @ 5324 psi</p> <p>20 bpm @ 4492 psi</p> <p>PAD ISIP : 3946 psi PAD Frac Gradient: 0.87 psi/ft 5 min ISIP: 3593 psi</p> <p>Formation breakdown @ 20 bpm @ 5262 psi.</p> <p>Increased rate to 80 bpm. Started stage with 15 lb equivalent gel loading , 9 cP @ 78 degrees F. Pumped 2286 bbls of PAD. Step 30/50 Brown sand from 0.5 ppg to 3.00 ppg. Flushed well with 316 bbls. Placed 100% prop in formation.</p> <p>AVG Rate: 72.5 bpm AVG Pressure: 6676 psi</p> <p>MAX Rate 79 bpm MAX Pressure: 8708 psi</p> <p>Post-frac ISIP: 3658 psi Frac Gradient: 0.84psi/ft</p> <p>LTR= 211394 bbls</p> <p>TSIF= 8441114 lbs</p>	1.75
PERF	<p>RU Ark-La-Tex Wireline for stage 29 of 30. RIH and pumpdown with Weatherford CFP - 3 1/8", 60 degree phasing, 4 spf perforating guns and set CFP at 9679 ft. Perforated intervals: 9408 - 410, 9468 - 470, 9528 - 530, 9588 - 590 , 9648 - 650 .</p> <p>Pump Down @ 12 bpm/ 3500 psi. Line Speed 310 ft/min.</p> <p>Used 39 bbls</p> <p>FTR Total 211433 bbls.</p>	2
WOZF	Waiting on 44H Frac Ops (46H completed).	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage: 29 of 30. Test stack to 9500 PSI. Hold 1,500 psi on annulus. PPS 6 fracture treat perforations per schedule with 57 bbls of 15% HCl,</p> <p>Initial Wellhead Pressure: 2635 psi</p> <p>STEP DOWN</p> <p>80 bpm @ 6647 psi</p> <p>60 bpm @ 5844 psi</p> <p>40 bpm @ 5211 psi</p> <p>20 bpm @ 4375 psi</p> <p>PAD ISIP : 3941 psi PAD Frac Gradient: 0.87 psi/ft 5 min ISIP: 3434 psi</p> <p>Formation breakdown @ 20 bpm @ 5265 psi.</p> <p>LTR= 211433 bbls</p> <p>TSIF= 8441114 lb.</p>	1

Report #: 23 Daily Operation: 8/3/2014 06:00 - 8/4/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	029841
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
141	23	0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
		PIONEER NATURAL RESOURCES, 6

Operations Summary

Frac stages 29 and 30

Perf stage 30 and RIH and set kill plug at 9079'.

Remarks

Day Supervisors - Bill Sherrill & John Booher

Night Supervisors - Lane Beaty & Kevin Armstrong

PPS Downtime: 0.0 hrs. Cum. 8.25 hrs.

Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.

Select Downtime: 0 hrs. Cum. 0.0 hrs.

Lee Specialties WL Downtime: 0 hrs. 0 hrs.

Crest Downtime: 0 hrs. Cum. 0 hrs.

Priority: 0 hrs. Cum. 0 hrs.

Waiting on Weather 0 hrs. Cum. 0 hrs.

Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Increased rate to 80 bpm. Started Stage w/ 15 lb gel Equivalent gel loading, 9 cp. @ 76 °F Pumped 2286 bbl pad. Ramped 30/50 brown sand from 0.5 ppg to 3.00 ppg. Flushed well with 311 bbls. Ending rate 80 bpm @ 6595 psi. Placed 100 prop in formation.</p> <p>Avg rate: 80 bpm Avg psi: 7312 psi</p> <p>Max rate: 80 bpm Max psi: 8442 psi</p> <p>Ending ISIP: 3835 psi FG: .86 psi/ft</p> <p>LTR= 218,817 bbls.</p> <p>TSIF= 8,777,223 lbs.</p>	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary						
Operation	Com					Dur (hr)
PERF	RU Ark-La-Tex Wireline for stage 30 of 30. RIH and pumpdown with Weatherford CFP - 3 1/8", 60 degree phasing, 4 spf perforating guns and set CFP at 9,379' ft. Perforated intervals: 9,108 - 110, 9,168 - 170, 9,228 - 230, 9,288 - 290, 9,348 - 350 . Pump Down @ 9 bpm/ 3000 psi. Line Speed 275 ft/min. Used 24 bbls FTR Total 218,841 bbls					2
WOZF	Waiting on frac operations on 44H					2.5
STIM	FRAC STG #30 of 30: Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 36 bbls 15% HCL, 339,987 lbs. 30/50 Brady sand & 7985 bbls of hybrid fluid linear/xlink down 5.5" csg. Step Test: 80 bpm @ 5735 psi. 60 bpm @ 5115 psi. 40 bpm @ 4574 psi. 20 bpm @ 4129 psi Pad ISIP: 3948 psi FG: .87 psi/ft 5 min. sip: 3548 psi Formation broke @ 16 bpm @ 4526 psi. Increased rate to 80 bpm. Started Stage w/ 15 lb gel Equivalent gel loading, 9 cp. @ 82 °F Pumped 2689 bbl pad. Ramped 30/50 brown sand from 0.5 ppg to 3.00 ppg. Flushed well with 302 bbls. Ending rate 80 bpm @ 6000 psi. Placed 100 prop in formation. Avg rate: 80 bpm Avg psi: 6000 psi Max rate: 80 bpm Max psi: 6922 psi Ending ISIP: 3690 psi FG: .85 psi/ft LTR= 226,826 bbls. TSIF= 9,117,210 lbs. While swapping to last Silo of 30/50 sand, Crew could not get gate to open, took 700 bbls before the gate could be opened. Had to take arm off and open manually. Was able to get all 30/50 sand on location pumped.					2.25
PERF	RU Ark-La-Tex Wireline for kill plug. RIH with Weatherford CFP down to 9079', set plug and perform negative test on plug, test was good.					1.5
WSI	30 of 30 stages complete, WSI waiting on drill out operations.					14.75
Report #: 24 Daily Operation: 8/4/2014 06:00 - 8/5/2014 06:00						
Job Category			Primary Job Type		AFE Number	
ORIG COMPLETION			OCM		029841	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
142	24	0.0				
Operations Summary						
WSI waiting on DO Ops						
Remarks						
Day Supervisors - Bill Sherrill & John Booher Night Supervisors - Lane Beaty & Kevin Armstrong PPS Downtime: 0.0 hrs. Cum. 8.25 hrs. Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs. Select Downtime: 0 hrs. Cum. 0.0 hrs. Lee Specialties WL Downtime: 0 hrs. 0 hrs. Crest Downtime: 0 hrs. Cum. 0 hrs. Priority: 0 hrs. Cum. 0 hrs. Waiting on Weather 0 hrs. Cum. 0 hrs. Waiting on Proppant 0 hrs. Cum. 0 Hrs. FTR: 226,826 bbls RT: 0 bbls CR: 0 bbls LTR: 226,826 bbls TSIF: 9,117,210 lbs						
Time Log Summary						
Operation	Com					Dur (hr)
WSI	WSI waiting on DO Ops					24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 25 Daily Operation: 8/5/2014 06:00 - 8/6/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841
Days From Spud (days) 143	Days on Location (days) 25	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Bill Sherrill & John Booher
Night Supervisors - Lane Beaty & Kevin Armstrong

PPS Downtime: 0.0 hrs. Cum. 8.25 hrs.
Art-La-Tex WL Downtime: 0 hrs. Cum. 0.0 hrs.
Select Downtime: 0 hrs. Cum. 0.0 hrs.
Lee Specialties WL Downtime: 0 hrs. 0 hrs.
Crest Downtime: 0 hrs. Cum. 0 hrs.
Priority: 0 hrs. Cum. 0 hrs.
Waiting on Weather 0 hrs. Cum. 0 hrs.
Waiting on Proppant 0 hrs. Cum. 0 Hrs.

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Report #: 26 Daily Operation: 8/6/2014 06:00 - 8/7/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841
Days From Spud (days) 144	Days on Location (days) 26	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Jim Pearson
Night Supervisors - Luke Moyer & Donny Reza

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cum 0 hrs
Chem CO. 0 hrs cum 0 hrs
K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 27 Daily Operation: 8/7/2014 06:00 - 8/8/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 145	Days on Location (days) 27	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Jim Pearson

Night Supervisors - Luke Moyer & Donny Reza

Mercer: 0.0 hrs Cum. Hrs. 0

Vision: 0 hrs Cum. Hrs 0

Express Water Transfer Down time: 0 hrs

Weather Down time: 0 hrs

Voyager: 0 hrs Cum 0 hrs

Chem CO. 0 hrs cum 0 hrs

K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Report #: 28 Daily Operation: 8/8/2014 06:00 - 8/9/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 146	Days on Location (days) 28	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Jim Pearson

Night Supervisors - Luke Moyer & Donny Reza

Mercer: 0.0 hrs Cum. Hrs. 0

Vision: 0 hrs Cum. Hrs 0

Express Water Transfer Down time: 0 hrs

Weather Down time: 0 hrs

Voyager: 0 hrs Cum 0 hrs

Chem CO. 0 hrs cum 0 hrs

K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 29 Daily Operation: 8/9/2014 06:00 - 8/10/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 147	Days on Location (days) 29	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Jim Pearson

Night Supervisors - Luke Moyer & Donny Reza

Mercer: 0.0 hrs Cum. Hrs. 0

Vision: 0 hrs Cum. Hrs 0

Express Water Transfer Down time: 0 hrs

Weather Down time: 0 hrs

Voyager: 0 hrs Cummm 0 hrs

Chem CO. 0 hrs cummm 0 hrs

K&B Flowback 0 hrs cummm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Report #: 30 Daily Operation: 8/10/2014 06:00 - 8/11/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 148	Days on Location (days) 30	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Jim Pearson

Night Supervisors - Luke Moyer & Donny Reza

Mercer: 0.0 hrs Cum. Hrs. 0

Vision: 0 hrs Cum. Hrs 0

Express Water Transfer Down time: 0 hrs

Weather Down time: 0 hrs

Voyager: 0 hrs Cummm 0 hrs

Chem CO. 0 hrs cummm 0 hrs

K&B Flowback 0 hrs cummm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 31 Daily Operation: 8/11/2014 06:00 - 8/12/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 149	Days on Location (days) 31	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Jim Pearson

Night Supervisors - Luke Moyer & Donny Reza

Mercer: 0.0 hrs Cum. Hrs. 0

Vision: 0 hrs Cum. Hrs 0

Express Water Transfer Down time: 0 hrs

Weather Down time: 0 hrs

Voyager: 0 hrs Cum 0 hrs

Chem CO. 0 hrs cum 0 hrs

K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Report #: 32 Daily Operation: 8/12/2014 06:00 - 8/13/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 150	Days on Location (days) 32	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Jim Pearson

Night Supervisors - Luke Moyer & Donny Reza

Mercer: 0.0 hrs Cum. Hrs. 0

Vision: 0 hrs Cum. Hrs 0

Express Water Transfer Down time: 0 hrs

Weather Down time: 0 hrs

Voyager: 0 hrs Cum 0 hrs

Chem CO. 0 hrs cum 0 hrs

K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 33 Daily Operation: 8/13/2014 06:00 - 8/14/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 151	Days on Location (days) 33	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Kirby

Night Supervisors - Luke Moyer & Mike Sylvester

Mercer: 0.0 hrs Cum. Hrs. 0

Vision: 0 hrs Cum. Hrs 0

Express Water Transfer Down time: 0 hrs

Weather Down time: 0 hrs

Voyager: 0 hrs Cumm 0 hrs

Chem CO. 0 hrs cumm 0 hrs

K&B Flowback 0 hrs cumm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI awaiting DO Ops	24

Report #: 34 Daily Operation: 8/14/2014 06:00 - 8/15/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 152	Days on Location (days) 34	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Kirby

Night Supervisors - Luke Moyer & Mike Sylvester

Mercer: 0.0 hrs Cum. Hrs. 0

Vision: 0 hrs Cum. Hrs 0

Express Water Transfer Down time: 0 hrs

Weather Down time: 0 hrs

Voyager: 0 hrs Cumm 0 hrs

Chem CO. 0 hrs cumm 0 hrs

K&B Flowback 0 hrs cumm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

TSIF: 9,117,210 lbs

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI Pending Drillout	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 35 Daily Operation: 8/15/2014 06:00 - 8/16/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 153	Days on Location (days) 35	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Kirby
Night Supervisors - Mike Sylvester

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cumm 0 hrs
Chem CO. 0 hrs cumm 0 hrs
K&B Flowback 0 hrs cumm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Time Log Summary

Operation	Com	Dur (hr)
WSI	Well Shut in pending drillout.	24

Report #: 36 Daily Operation: 8/16/2014 06:00 - 8/17/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 154	Days on Location (days) 36	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Kirby
Night Supervisors - Mike Sylvester

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cumm 0 hrs
Chem CO. 0 hrs cumm 0 hrs
K&B Flowback 0 hrs cumm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Time Log Summary

Operation	Com	Dur (hr)
WSI	Well shut in waiting on drill out ops	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 37 Daily Operation: 8/17/2014 06:00 - 8/18/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 155	Days on Location (days) 37	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Kirby
Night Supervisors -Mike Sylvester

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cummm 0 hrs
Chem CO. 0 hrs cummm 0 hrs
K&B Flowback 0 hrs cummm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Time Log Summary

Operation	Com	Dur (hr)
WSI	Well shut in waiting on drill out ops	24

Report #: 38 Daily Operation: 8/18/2014 06:00 - 8/19/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 156	Days on Location (days) 38	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Kirby
Night Supervisors -Mike Sylvester

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cummm 0 hrs
Chem CO. 0 hrs cummm 0 hrs
K&B Flowback 0 hrs cummm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Time Log Summary

Operation	Com	Dur (hr)
WSI	Well shut in pending drillout	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 39 Daily Operation: 8/19/2014 06:00 - 8/20/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 157	Days on Location (days) 39	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI waiting on DO Ops

Remarks

Day Supervisors - Kirby
Night Supervisors -Mike Sylvester

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cummm 0 hrs
Chem CO. 0 hrs cummm 0 hrs
K&B Flowback 0 hrs cummm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Time Log Summary

Operation	Com	Dur (hr)
SDFN	Well shut in pending drillout	24

Report #: 40 Daily Operation: 8/20/2014 06:00 - 8/21/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 158	Days on Location (days) 40	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI pending ops on 46H

Remarks

Day Supervisors - Travis Van Hoose, Kevin Armstrong
Night Supervisors -Noah Sherfield, Kirby Fitzgerald

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cummm 0 hrs
Chem CO. 0 hrs cummm 0 hrs
K&B Flowback 0 hrs cummm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Time Log Summary

Operation	Com	Dur (hr)
WSI	Well shut in waiting on drill out ops	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 41 Daily Operation: 8/21/2014 06:00 - 8/22/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 159	Days on Location (days) 41	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI pending ops on 46H

Remarks

Day Supervisors - Travis Van Hoose, Kevin Armstrong
Night Supervisors -Noah Sherfield, Kirby Fitzgerald

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cumm 0 hrs
Chem CO. 0 hrs cumm 0 hrs
K&B Flowback 0 hrs cumm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Sand Box in use---RT5319

Time Log Summary

Operation	Com	Dur (hr)
WSI	Well shut in waiting on drill out ops	24

Report #: 42 Daily Operation: 8/22/2014 06:00 - 8/23/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 029841
Days From Spud (days) 160	Days on Location (days) 42	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary

WSI pending ops on 46H

Remarks

Day Supervisors - Travis Van Hoose, Kevin Armstrong
Night Supervisors -Noah Sherfield, Kirby Fitzgerald

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cumm 0 hrs
Chem CO. 0 hrs cumm 0 hrs
K&B Flowback 0 hrs cumm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Sand Box in use---RT5319

Time Log Summary

Operation	Com	Dur (hr)
WSI	Well shut in waiting on drill out ops	24

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 43 Daily Operation: 8/23/2014 06:00 - 8/24/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841
Days From Spud (days) 161	Days on Location (days) 43	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig MERCER, 59	

Operations Summary

WSI pending tie in Ops on 46H well. MIRU Mercer Rig 59. Set Bops on well. Set catwalk and pipe racks, load racks, MU BHA, TIH to 9040', Test pipe rams seals on 2-3/8" rams blew, change out seals, test rams, TIH and tag kill plug.

Remarks

Day Supervisors - Travis Van Hoose, Kevin Armstrong
Night Supervisors -Noah Sherfield, Kirby Fitzgerald

Mercer: 0.0 hrs Cum. Hrs 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cum 0 hrs
Chem CO. 0 hrs cum 0 hrs
K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 226,826 bbls

Sand Box in use---RT5319

Time Log Summary

Operation	Com	Dur (hr)
SDP	WSI Waiting on well hookup on 46H before rigging up Completion rig.	7
RURD	MIRU Mercer Rig # 59. Set pipe racks and loaded with 2 3/8" tubing. Tally workstring. Test blinds and flow lines to 3K. Make up BHA 4 5/8" JZ bit, bit sub, double string floats 2 7/8" PH-6, and x-over to 2 3/8" PH-6.	8
MILL_TUB	TIH with workstring to 9,040' joint 291. RU swivel, make up saver sub and X-over to 2 3/8" PH-6. Fill tubing and break circulation. Test pipe rams seals blew change out 2 3/8" ram seals and test BOP's to 3K and annular to 2500 PSI.	8.5
MILL_TUB	TIH to Kill Plug	0.5

Report #: 44 Daily Operation: 8/24/2014 06:00 - 8/25/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841
Days From Spud (days) 162	Days on Location (days) 44	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig MERCER, 59	

Operations Summary

Drill Kill Plug. Drill CFP #29 thru #17

Trucking flowback fluids due to disposal being at max capacity.

Remarks

Day Supervisors - Travis Van Hoose, Kevin Armstrong
Night Supervisors -Noah Sherfield, Kirby Fitzgerald

Mercer: 0.0 hrs Cum. Hrs 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cum 0 hrs
Chem CO. 0 hrs cum 0 hrs
K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 1014 bbls

CR: 1014 bbls

LTR: 225,812 bbls

Sand Box in use---RT5319

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM - Discussed drilling CFPs.	0.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
MILL_TUB	TIH, tag Weatherford Kill Plug @ 9094' TM, set @ 9079', WLM. Drill plug in 15 minutes pumping 3 bpm / 3000 psi, returns 3.2 bpm / 1500 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 1200 ft-lbs. Drill torque 1200 ft-lbs.	0.25
MILL_TUB	TIH, tag Weatherford Plug 29 @ 9385' TM, set @ 9379', WLM. Drill plug in 35 minutes pumping 3 bpm / 1800 psi, returns 3.4 bpm / 1200 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 1700 ft-lbs. Drill torque 2200 ft-lbs.	0.75
MILL_TUB	TIH, tag Weatherford Plug 28 @ 9680' TM, set @ 9679', WLM. Drill plug in 23 minutes pumping 3 bpm / 2500 psi, returns 3.4 bpm / 1200 psi. TIH two joints, pump 10 bbl sweep, circulate to surface. Pre-drill torque 700 ft-lbs. Drill torque 1500 ft-lbs.	2.5
MILL_TUB	TIH, tag Weatherford Plug 27 @ 9985' TM, set @ 9979', WLM. Drill plug in 34 minutes pumping 3 bpm / 2200 psi, returns 3.4 bpm / 1200 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 700 ft-lbs. Drill torque 1100 ft-lbs.	2.75
MILL_TUB	TIH, tag Weatherford Plug 26 @ 10273' TM, set @ 10279', WLM. Drill plug in 30 minutes pumping 3 bpm / 2400 psi, returns 3.4 bpm / 1200 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 700 ft-lbs. Drill torque 1100 ft-lbs.	2
MILL_TUB	TIH, tag Weatherford Plug 25 @ 10579' TM, set @ 10579', WLM. Drill plug in 35 minutes pumping 3 bpm / 2500 psi, returns 3.5 bpm / 1100 psi. TIH two joints, pump 10 bbl sweep, circulate to surface. Pre- drill torque 700 ft-lbs. Drill torque 1000 ft-lbs.	3
MILL_TUB	TIH, tag Weatherford Plug 24 @ 10897' TM, set @ 10879', WLM. Drill plug in 32 minutes pumping 3 bpm / 2400 psi, returns 3.2 bpm / 1000 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 800 ft-lbs. Drill torque 1400 ft-lbs.	1
MILL_TUB	TIH, tag Weatherford Plug 23 @ 11178' TM, set @ 11179', WLM. Drill plug in 34 minutes pumping 3 bpm / 2100 psi, returns 3.4 bpm / 1000 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 800 ft-lbs. Drill torque 1900 ft-lbs.	1.25
MILL_TUB	TIH, tag Weatherford Plug 22 @ 11488' TM, set @ 11479', WLM. Drill plug in 29 minutes pumping 3 bpm / 2100 psi, returns 3.4 bpm / 1000 psi. TIH two joints, pump 10 bbl sweep, circulate to surface. Pre- drill torque 800 ft-lbs. Drill torque 1900 ft-lbs.	2.75
MILL_TUB	TIH, tag Weatherford Plug 21 @ 11779' TM, set @ 11779', WLM. Drill plug in 18 minutes pumping 3 bpm / 2100 psi, returns 3.3 bpm / 1100 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 900 ft-lbs. Drill torque 1900 ft-lbs.	0.75
MILL_TUB	TIH, tag Weatherford Plug 20 @ 12110' TM, set @ 12079', WLM. Drill plug in 25 minutes pumping 3 bpm / 2100 psi, returns 3.3 bpm / 1100 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 900 ft-lbs. Drill torque 1900 ft-lbs.	0.75
MILL_TUB	TIH, tag Weatherford Plug 19 @ 12389' TM, set @ 12379', WLM. Drill plug in 21 minutes pumping 3 bpm / 2100 psi, returns 3.3 bpm / 1100 psi. TIH two joints, pump 10 bbl sweep, circulate to surface. Pre- drill torque 900 ft-lbs. Drill torque 2100 ft-lbs.	3
MILL_TUB	TIH, tag Weatherford Plug 18 @ 12679' TM, set @ 12679', WLM. Drill plug in 39 minutes pumping 3 bpm / 2100 psi, returns 3.3 bpm / 1000 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 1200 ft-lbs. Drill torque 1900 ft-lbs.	1
MILL_TUB	TIH, tag Weatherford Plug 17 @ 12965' TM, set @ 12979', WLM. Drill plug in 28 minutes pumping 3 bpm / 2100 psi, returns 3.3 bpm / 1000 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 1200 ft-lbs. Drill torque 2500 ft-lbs.	1
MILL_TUB	Tag plug # 16 drilling at report time.	1

Report #: 45 Daily Operation: 8/25/2014 06:00 - 8/26/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	029841
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
163	45	0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
		MERCER, 59

Operations Summary

Drill CFP #15 thru #5

Remarks

Day Supervisors - Travis Van Hoose, Kevin Armstrong
Night Supervisors -Noah Sherfield, Kirby Fitzgerald

Mercer: 0.0 hrs Cum. Hrs 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cum 0 hrs
Chem CO. 0 hrs cum 0 hrs
K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 856 bbls

CR: 1860 bbls

LTR: 224,956 bbls

Sand Box in use---RT5319

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM - Review JSAs, Discuss plan for day with safety focus	0.25
MILL_TUB	TIH, tag Weatherford Plug 16 @ 13283' TM, set @ 13279', WLM. Drill plug in 25 minutes pumping 3 bpm / 2200 psi, returns 3.3 bpm / 1000 psi. TIH two joints, pump 10 bbl sweep, circulate to surface. Pre- drill torque 900 ft-lbs. Drill torque 2400 ft-lbs.	0.25
MILL_TUB	TIH, tag Weatherford Plug 15 @ 13576' TM, set @ 13579', WLM. Drill plug in 19 minutes pumping 3 bpm / 2300 psi, returns 3.3 bpm / 1000 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 1500 ft-lbs. Drill torque 2200 ft-lbs.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary		
Operation	Com	Dur (hr)
MILL_TUB	TIH, tag Weatherford Plug 14 @ 13879' TM, set @ 13879', WLM. Drill plug in 31 minutes pumping 3 bpm / 2300 psi, returns 3.3 bpm / 1000 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 1500 ft-lbs. Drill torque 2500 ft-lbs.	2
MILL_TUB	TIH, tag Weatherford Plug 13 @ 14160' TM, set @ 14179', WLM. Drill plug in 19 minutes pumping 3 bpm / 2600 psi, returns 3.3 bpm / 1000 psi. TIH two joints, pump 10 bbl sweep, circulate to surface. Pre- drill torque 1600 ft-lbs. Drill torque 2400 ft-lbs.	2.5
MILL_TUB	TIH, tag Weatherford Plug 12 @ 14475' TM, set @ 14479', WLM. Drill plug in 31 minutes pumping 3 bpm / 2800 psi, returns 3.1 bpm / 1000 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 1800 ft-lbs. Drill torque 2500 ft-lbs.	1.5
MILL_TUB	TIH, tag Weatherford Plug 11 @ 14772' TM, set @ 14779', WLM. Drill plug in 21 minutes pumping 3 bpm / 2400 psi, returns 3.1 bpm / 1000 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 1800 ft-lbs. Drill torque 2200 ft-lbs.	1.5
MILL_TUB	TIH, tag Weatherford Plug 10 @ 15076' TM, set @ 15079', WLM. Drill plug in 41 minutes pumping 3 bpm / 2300 psi, returns 3 bpm / 1000 psi. TIH two joints, pump 10 bbl sweep, circulate to surface. Pre- drill torque 1800 ft-lbs. Drill torque 2500 ft-lbs. Making heavy sand.	3.5
MILL_TUB	TIH, tag Weatherford Plug 9 @ 15371' TM, set @ 15379', WLM. Drill plug in 35 minutes pumping 3 bpm / 2300 psi, returns 3.3 bpm / 900 psi. TIH two joints, pump 5 BBL sweep circulate 45 minutes. Pre- drill torque 2000 ft-lbs. Drill torque 2800 ft-lbs. Making heavy sand.	2.75
MILL_TUB	TIH, tag Weatherford Plug 8 @ 15670' TM, set @ 15679', WLM. Drill plug in 50 minutes pumping 3 bpm / 2300 psi, returns 3.3 bpm / 950 psi. TIH two joints, pump 5 BBL sweep circulate 30 minutes. Pre- drill torque 2100 ft-lbs. Drill torque 2900 ft-lbs	1.5
MILL_TUB	TIH, tag Weatherford Plug 7 @ 15970' TM, set @ 15979', WLM. Drill plug in 44 minutes pumping 3 bpm / 2300 psi, returns 3.3 bpm / 950 psi. TIH two joints, pump 5 bbl sweep, circulate 20 minutes. Pre- drill torque 2100 ft-lbs. Drill torque 2900 ft-lbs.	1
MILL_TUB	TIH, tag Weatherford Plug 6 @ 16267' TM, set @ 16279', WLM. Drill plug in 33 minutes pumping 3 bpm / 2300 psi, returns 3.3 bpm / 950 psi. TIH two joints, pump 10 BBL sweep to surface. Pre- drill torque 2200 ft-lbs. Drill torque 2900 ft-lbs.	3.25
MILL_TUB	TIH, tag Weatherford Plug 5 @ 16574' TM, set @ 16579', WLM. Drill plug in 37 minutes pumping 3 bpm / 2300 psi, returns 3.3 bpm / 950 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 2200 ft-lbs. Drill torque 3200 ft-lbs.	1.5
MILL_TUB	Washing down to plug #4.	1

Report #: 46 Daily Operation: 8/26/2014 06:00 - 8/27/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
164	46	0.0			MERCER, 59			

Operations Summary

Drill CFP #4 thru #2 (Tag Plug #1, Leave in hole). Pump sweeps, POOH w/BHA. Pipe stuck at 14,196' worked free pumped sweeps, Continue POOH w/BHA. Pump curve sweep. EOT 9,500'. Shut in casing PSI 1050.

Remarks

Day Supervisors - Travis Van Hoose,
Night Supervisors -Noah Sherfield, Kirby Fitzgerald

Mercer: 0.0 hrs Cum. Hrs 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cum 0 hrs
Chem CO. 0 hrs cum 0 hrs
K&B Flowback 0 hrs cum 0 hrs

FTR: 226,826 bbls

RT: 234 bbls

CR: 2104 bbls

LTR: 224,722 bbls

Sand Box in use---RT5319/25113

Time Log Summary		
Operation	Com	Dur (hr)
SAFETY	PJSM Discussed drilling plugs and keeping hole clean.	0.25
MILL_TUB	TIH, tag Weatherford Plug 4 @ 16845' TM, set @ 16879', WLM. Drill plug in 29 minutes pumping 3 bpm / 2550 psi, returns 3.3 bpm / 900 psi. TIH two joints, pump 10 bbl sweep, circulate to surface. Pre- drill torque 2500 ft-lbs. Drill torque 3000 ft-lbs. Had to work to go down hole due to well having huge dip and then rapid climb.	3
MILL_TUB	TIH, tag Weatherford Plug 3 @ 17165' TM, set @ 17179', WLM. Drill plug in 41 minutes pumping 3 bpm / 2650 psi, returns 3.2 bpm / 900 psi. TIH two joints, pump 5 BBL sweep circulate 30 minutes. Pre- drill torque 2700 ft-lbs. Drill torque 3100 ft-lbs. Still having to work to go down hole due to well having huge dip and then rapid climb.	3
MILL_TUB	TIH, tag Weatherford Plug 2 @ 17471' TM, set @ 17479', WLM. Drill plug in 61 minutes pumping 3 bpm / 2700 psi, returns 3.2 bpm / 900 psi. TIH two joints, pump 5 BBL sweep circulate 20 minutes. Pre- drill torque 2800 ft-lbs. Drill torque 3100 ft-lbs.	3.75
MILL_TUB	Tag plug 1 at 17,779' pick up and pump 15/50/10 sweeps while working pipe.	2.25
MILL_TUB	Stand swivel back, POOH with BHA	3.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Time Log Summary

Operation	Com	Dur (hr)
MILL_TUB	Pulled int tight spot at 14,196'. Pipe stuck, RU swivel, rotate pipe and became free, pump 10/20/10 sweep and circulate to surface, while working pipe. Stand swivel back.	2.25
MILL_TUB	Continue to POOH with BHA to 9,500'	4.25
MILL_TUB	RU swivel and pump 10 BBL sweep to clean curve.	2

Report #: 47 Daily Operation: 8/27/2014 06:00 - 8/28/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841
Days From Spud (days) 165	Days on Location (days) 47	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig MERCER, 59	

Operations Summary

Finish POOH with 2 3/8" WS. Snubbed out last 100 jts. RU W/L & RIH w/GRJB to 8650'. RIH & set packer at 8540'. Negative test packer while POOH. Good. Removed Frac Valve and Flow Cross and reset BOP. Loaded 2 7/8" Prod tubing on racks.

Remarks

Day Supervisors - Ricky Russell
Night Supervisors - Travis VanHoose

Mercer: 0.0 hrs Cum. Hrs. 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cumm 0 hrs
Chem CO. 0 hrs cumm 0 hrs
K&B Flowback 0 hrs cumm 0 hrs

FTR: 226,826 bbls

RT: 0 bbls

CR: 2104 bbls

LTR: 224,722 bbls

Sand Box in use---RT5319/25113

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.5
MILL_TUB	POOH LD 205 jts 2.375 PH6 W/S tbq. Land tbq with 100 jts in @ 3142' EOT.	3.5
RURD	RD floor and bird bath. MIRU Snubco snubbing unit.	3.5
MILL_TUB	Snubb out and LD 100 jts 2.375 PH6 tbq. LD drlg BHA.	3.5
SAFETY	PJSM	0.25
RURD	RDMO Snubbing unit.	1.25
RURD	MIRU API Wireline.	2
WLPK	RIH with 4.625 GR and JB to 8650 ft. SICP 1050 psi. RIH with Vision AS1X packer dressed with Tungsten Carbide slips. Set top of Packer at 8540 ft. RDMU API Wireline.	4.5
RURD	Removed Frac valve and flow cross. Reset Bop's. Rigged down FB lines from well. Rig up floor and tubing handling tools. Load production tubing on racks. Tally pipe on racks.	4
SDP	Well Shut In. Finished preparations for running ESP ahead of schedule. Schlumberger set up for 0600.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Report #: 48 Daily Operation: 8/28/2014 06:00 - 8/29/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 029841
Days From Spud (days) 166	Days on Location (days) 48	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig MERCER, 59	

Operations Summary

Run ESP tubing. Land tubing and install production tree. Rig down rig and surface equipment. Haul off fluids. Flush disposal line with fresh water.

Remarks

Day Supervisors - Ricky Russell
Night Supervisors - Travis VanHoose

Mercer: 0.0 hrs Cum. Hrs 0
Vision: 0 hrs Cum. Hrs 0
Express Water Transfer Down time: 0 hrs
Weather Down time: 0 hrs
Voyager: 0 hrs Cumm 0 hrs
Chem CO. 0 hrs cumm 0 hrs
K&B Flowback 0 hrs cumm 0 hrs

FTR: 226,826 bbls

RT: 40 bbls

CR: 2144 bbls

LTR: 224,682 bbls

Sand Box in use---RT5319/25113

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.5
TUBING	MU TIH with prod BHA as follows. bull plug, 6 jts L80 tail pipe, desander, SLB ESP pump, 1 jt 2 7/8 L80 IPC tbg, 2.313 "X" nipple, 49 jts 2 7/8 L80 IPC tbg, 257 jts 2 7/8 reg L80. land tbg @ 8161' EOT	11.5
U_SDP	Schlumberger did not have tubing hanger ordered in time for installation.	3
TUBING	Make up tubing hanger and land tubing.	1.5
NU_TREE	Installed 5K Production Tree, Test to 5k.	2
RURD	RD Mercer Completion rig #59.	0.5
RURD	Rigging down all surface equipment. Flush disposal line with 500 bbls fresh water.	5

WELL DETAILS

Well Name UNIVERSITY 3-19 45H	API/UWI 42-461-39152-0000	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	26.0	146.0	2/3/2014	2/3/2014
Surface	17 1/2	146.0	1,220.0	3/15/2014	3/16/2014
Intermediate	12 1/4	1,220.0	8,340.0	3/18/2014	3/23/2014
Production	8 1/2	8,340.0	18,950.0	3/28/2014	4/19/2014

Conductor Casing

Run Date	Set Depth (ftKB) 120.0	Centralizers						
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	20				120.00	1	0.0	120.0
Run Date	Set Depth (ftKB) 146.0	Centralizers						
2/3/2014								
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	26.0	146.0

Surface Casing

Set Depth (ftKB) 1,200.0	Run Date	Centralizers						
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	1,175.00	30	25.0	1,200.0
Set Depth (ftKB) 1,211.0	Run Date 3/16/2014	Centralizers						
		7						
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	0.00	0	26.0	26.0

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Cut off		13 3/8	12.715	48.00	J-55	0.00	0	26.0	26.0
Casing Cut off		13 3/8	12.715	48.00	J-55	7.37	1	26.0	33.4
Casing Joints		13 3/8	12.715	48.00	J-55	37.60	1	33.4	71.0
Casing Joints		13 3/8	12.715	48.00	J-55	1,095.82	27	71.0	1,166.8
Float Collar		13 3/8	12.715	48.00	J-55	1.30	1	1,166.8	1,168.1
Casing Joints		13 3/8	12.715	48.00	J-55	40.72	1	1,168.1	1,208.8
Float Collar		13 3/8	12.715	48.00	J-55	1.30	1	1,208.8	1,210.1
Float Shoe		13 3/8	12.715	48.00	J-55	0.87	1	1,210.1	1,211.0
Surface Casing Cement									
Type Casing		String Surface, 1,211.0ftKB	Cementing Start Date 3/17/2014	Cementing End Date 3/17/2014	Cementing Company SCHLUMBERGER			Top (ftKB) 26.0	Btm (ftKB) 1,211.0
Class		Amount (sacks)		Yield (ft³/sack)			Density (lb/gal) 8.30		
Class Class C		Amount (sacks) 583		Yield (ft³/sack) 1.91			Density (lb/gal) 12.80		
Class Class C		Amount (sacks) 386		Yield (ft³/sack) 1.70			Density (lb/gal) 13.60		
Class		Amount (sacks)		Yield (ft³/sack)			Density (lb/gal) 8.30		
Intermediate Casing									
Set Depth (ftKB) 8,300.0		Run Date		Centralizers					
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints		9 5/8	8.755	43.50	L-80	8,275.00	206	25.0	8,300.0
Set Depth (ftKB) 8,334.0		Run Date 3/25/2014		Centralizers 40					
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
cut off		9 5/8	8.835	40.00	L-80	3.10	0	26.0	29.1
Hanger		9 5/8	8.835	40.00	L-80	4.30	1	29.1	33.4
Casing Joints		9 5/8	8.835	40.00	L-80	3,651.69	80	33.4	3,685.1
Casing Rite Wrap		9 5/8	8.835	40.00	L-80	2,316.15	51	3,685.1	6,001.2
Casing Joints		9 5/8	8.755	43.50	L-80	2,237.44	48	6,001.2	8,238.7
Float Collar		9 5/8	8.755	43.50	L-80	1.50	1	8,238.7	8,240.2
Casing Joints		9 5/8	8.755	43.50	L-80	92.15	2	8,240.2	8,332.3
Shoe		9 5/8	8.755	43.50	L-80	1.70	1	8,332.3	8,334.0
Intermediate Casing Cement									
Type Casing		String Intermediate, 8,334.0ftKB	Cementing Start Date 3/25/2014	Cementing End Date 3/25/2014	Cementing Company SCHLUMBERGER			Top (ftKB) 26.0	Btm (ftKB) 8,334.0
Class		Amount (sacks)		Yield (ft³/sack)			Density (lb/gal) 10.00		
Class TXI LITEWEIGHT		Amount (sacks) 963		Yield (ft³/sack) 2.23			Density (lb/gal) 11.50		
Class Class H		Amount (sacks) 211		Yield (ft³/sack) 1.07			Density (lb/gal) 16.40		
Class Water		Amount (sacks)		Yield (ft³/sack)			Density (lb/gal) 8.32		
Production Casing									
Set Depth (ftKB) 18,943.0		Run Date		Centralizers					
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints		5 1/2	4.548	26.00	P-110	19,125.00	479	-182.0	18,943.0
Set Depth (ftKB) 18,944.0		Run Date 4/24/2014		Centralizers 35					
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Landing Jnt		5 1/2	4.778	20.00	P110	0.00	0	29.1	29.1
Casing Hanger		5 1/2	4.778	20.00	P110	5.10	1	29.1	34.2
Pup Joint		5 1/2	4.778	20.00	P110	29.49	2	34.2	63.7
Casing Jnt		5 1/2	4.778	20.00	P110	8,075.40	202	63.7	8,139.1
Marker Jnt		5 1/2	4.778	20.00	P110	9.60	1	8,139.1	8,148.7
Casing Jnt		5 1/2	4.778	20.00	P110	195.91	5	8,148.7	8,344.6
Marker Jnt		5 1/2	4.778	20.00	P110	19.86	1	8,344.6	8,364.5
Casing Jnt		5 1/2	4.778	20.00	P110	10,452.67	262	8,364.5	18,817.1
Pup Joint		5 1/2	4.778	20.00	P110	8.00	1	18,817.1	18,825.1
Toe Sleeve		5 1/2	4.778	20.00	P110	5.55	1	18,825.1	18,830.7

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Pup Joint	5 1/2	4.778	20.00	P110	8.00	1	18,830.7	18,838.7
Marker Joint	5 1/2	4.778	20.00	P110	20.08	1	18,838.7	18,858.8
Float Collar	5 1/2	4.778	20.00	P110	3.00	1	18,858.8	18,861.8
Casing Jnt	5 1/2	4.778	20.00	P110	80.50	2	18,861.8	18,942.3
Float Shoe	5 1/2	4.778	20.00	P110	1.74	1	18,942.3	18,944.0

Production Casing Cement

Type Casing	String Production, 18,944.0ftKB	Cementing Start Date 4/25/2014	Cementing End Date 4/25/2014	Cementing Company SCHLUMBERGER	Top (ftKB) 26.0	Btm (ftKB) 18,944.0
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			

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
9,108.0	9,110.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 30
9,168.0	9,170.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 30
9,228.0	9,230.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 30
9,288.0	9,290.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 30
9,348.0	9,350.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 30
9,408.0	9,410.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 29
9,468.0	9,470.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 29
9,528.0	9,530.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 29
9,588.0	9,590.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 29
9,648.0	9,650.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 29
9,708.0	9,710.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 28
9,768.0	9,770.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 28
9,828.0	9,830.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 28
9,888.0	9,890.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 28
9,948.0	9,950.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 28
10,008.0	10,010.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 27
10,068.0	10,070.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 27
10,128.0	10,130.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 27
10,188.0	10,190.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 27
10,248.0	10,250.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 27
10,308.0	10,310.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 26
10,368.0	10,370.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 26
10,428.0	10,430.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 26
10,488.0	10,490.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 26
10,548.0	10,550.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 26
10,608.0	10,610.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 25
10,668.0	10,670.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 25
10,728.0	10,730.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 25
10,788.0	10,790.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 25
10,848.0	10,850.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 25
10,908.0	10,910.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 24
10,968.0	10,970.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 24
11,028.0	11,030.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 24
11,088.0	11,090.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 24
11,148.0	11,150.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 24
11,208.0	11,210.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 23
11,268.0	11,270.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 23
11,328.0	11,330.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 23
11,388.0	11,390.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 23
11,448.0	11,450.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 23

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
11,508.0	11,510.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 22
11,568.0	11,570.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 22
11,628.0	11,630.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 22
11,688.0	11,690.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 22
11,748.0	11,750.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 22
11,808.0	11,810.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 21
11,868.0	11,870.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 21
11,928.0	11,930.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 21
11,988.0	11,990.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 21
12,048.0	12,050.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 21
12,108.0	12,110.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 20
12,168.0	12,170.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 20
12,228.0	12,230.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 20
12,288.0	12,290.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 20
12,348.0	12,350.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 20
12,408.0	12,410.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 19
12,468.0	12,470.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 19
12,528.0	12,530.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 19
12,588.0	12,590.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 19
12,648.0	12,650.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 19
12,708.0	12,710.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 18
12,768.0	12,770.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 18
12,828.0	12,830.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 18
12,888.0	12,890.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 18
12,948.0	12,950.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 18
13,008.0	13,010.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 17
13,068.0	13,070.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 17
13,128.0	13,130.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 17
13,188.0	13,190.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 17
13,248.0	13,250.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 17
13,308.0	13,310.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 16
13,368.0	13,370.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 16
13,428.0	13,430.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 16
13,488.0	13,490.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 16
13,548.0	13,550.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 16
13,608.0	13,610.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 15
13,668.0	13,670.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 15
13,728.0	13,730.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 15
13,788.0	13,790.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 15
13,848.0	13,850.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 15
13,908.0	13,910.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 14
13,968.0	13,970.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 14
14,028.0	14,030.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 14
14,088.0	14,090.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 14
14,148.0	14,150.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 14
14,208.0	14,210.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 13
14,268.0	14,270.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 13
14,328.0	14,330.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 13
14,388.0	14,390.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 13
14,448.0	14,450.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 13
14,508.0	14,510.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 12
14,568.0	14,570.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 12
14,628.0	14,630.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 12
14,688.0	14,690.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 12

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
14,748.0	14,750.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 12
14,808.0	14,810.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 11
14,868.0	14,870.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 11
14,928.0	14,930.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 11
14,988.0	14,990.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 11
15,048.0	15,050.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 11
15,108.0	15,110.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 10
15,168.0	15,170.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 10
15,228.0	15,230.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 10
15,288.0	15,290.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 10
15,348.0	15,350.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 10
15,408.0	15,410.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 9
15,468.0	15,470.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 9
15,528.0	15,530.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 9
15,588.0	15,590.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 9
15,648.0	15,650.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 9
15,708.0	15,710.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 8
15,768.0	15,770.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 8
15,828.0	15,830.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 8
15,888.0	15,890.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 8
15,948.0	15,950.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 8
16,008.0	16,010.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 7
16,068.0	16,070.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 7
16,128.0	16,130.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 7
16,188.0	16,190.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 7
16,248.0	16,250.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 7
16,308.0	16,310.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 6
16,368.0	16,370.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 6
16,428.0	16,430.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 6
16,488.0	16,490.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 6
16,548.0	16,550.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 6
16,608.0	16,610.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 5
16,668.0	16,670.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 5
16,728.0	16,730.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 5
16,788.0	16,790.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 5
16,848.0	16,850.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 5
16,908.0	16,910.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 4
16,968.0	16,970.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 4
17,028.0	17,030.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 4
17,088.0	17,090.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 4
17,148.0	17,150.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 4
17,208.0	17,210.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 3
17,268.0	17,270.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 3
17,328.0	17,330.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 3
17,388.0	17,390.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 3
17,448.0	17,450.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 3
17,508.0	17,510.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 2
17,568.0	17,570.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 2
17,628.0	17,630.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 2
17,688.0	17,690.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 2
17,748.0	17,750.0	Wolfcamp B3, Original Hole	4.0	8	STAGE 2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Completion (FRAC) Details

STAGE 2 on 7/20/2014 10:27

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/20/2014	STAGE 2	Wolfcamp B3, Original Hole	Pioneer Pumping Services	17,508.0	17,750.0

GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 8,080.00
Fluid Name Slickwater	Total Clean Volume (bbl) 8,080.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 8,080.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 115,383.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...

STAGE 3 on 7/20/2014 16:53

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/20/2014	STAGE 3	Wolfcamp B3, Original Hole	Pioneer Pumping Services	17,208.0	17,450.0

GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 9,446.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 9,446.00
Fluid Name Slickwater	Total Clean Volume (bbl) 9,446.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 12,544.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 24,938.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 45,234.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 4	Type Bulk Sand	Amount 59,095.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 5	Type Bulk Sand	Amount 89,100.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 105,392.0	Units lb	Sand Size 30/50	Concentration...

STAGE 4 on 7/21/2014 00:03

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/21/2014	STAGE 4	Wolfcamp B3, Original Hole	Pioneer Pumping Services	16,908.0	17,150.0

GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,658.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,658.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,658.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 12,188.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 25,045.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 45,329.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 4	Type Bulk Sand	Amount 61,353.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 5	Type Bulk Sand	Amount 88,465.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 102,635.0	Units lb	Sand Size 30/50	Concentration...

STAGE 5 on 7/21/2014 13:15

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/21/2014	STAGE 5	Wolfcamp B3, Original Hole	Pioneer Pumping Services	16,608.0	16,850.0

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 8,024.00			
Fluid Name Slickwater			Total Clean Volume (bbl) 8,024.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 8,024.00			
SAND & ACID						
Additive BROWN SAND	Type Bulk Sand	Amount 61,714.0	Units lb	Sand Size 30/50	Concentration... 2.00	
Additive BROWN SAND	Type Bulk Sand	Amount 105,108.0	Units lb	Sand Size 30/50	Concentration... 3.00	
Additive BROWN SAND	Type Bulk Sand	Amount 25,078.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND	Type Bulk Sand	Amount 11,866.0	Units lb	Sand Size 30/50	Concentration... 0.50	
Additive BROWN SAND	Type Bulk Sand	Amount 44,626.0	Units lb	Sand Size 30/50	Concentration... 1.50	
Additive BROWN SAND	Type Bulk Sand	Amount 90,299.0	Units lb	Sand Size 30/50	Concentration... 2.50	
STAGE 6 on 7/21/2014 21:35						
Date 7/21/2014	Type STAGE 6	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 16,308.0	Max Btm Depth (ftKB) 16,550.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 7,984.00			
Fluid Name Slickwater			Total Clean Volume (bbl) 7,984.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 7,984.00			
SAND & ACID						
Additive BROWN SAND 1	Type Bulk Sand	Amount 10,849.0	Units lb	Sand Size 30/50	Concentration... 0.50	
Additive BROWN SAND 2	Type Bulk Sand	Amount 25,702.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND 3	Type Bulk Sand	Amount 43,032.0	Units lb	Sand Size 30/50	Concentration... 1.50	
Additive BROWN SAND 4	Type Bulk Sand	Amount 61,388.0	Units lb	Sand Size 30/50	Concentration... 2.00	
Additive BROWN SAND 5	Type Bulk Sand	Amount 87,943.0	Units lb	Sand Size 30/50	Concentration... 2.50	
Additive BROWN SAND 6	Type Bulk Sand	Amount 106,691.0	Units lb	Sand Size 30/50	Concentration... 3.00	
STAGE 7 on 7/22/2014 05:40						
Date 7/22/2014	Type STAGE 7	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 16,008.0	Max Btm Depth (ftKB) 16,250.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 8,028.00			
Fluid Name Slickwater			Total Clean Volume (bbl) 8,028.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 8,028.00			
SAND & ACID						
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration... 2.00	
Additive BROWN SAND	Type Bulk Sand	Amount 105,985.0	Units lb	Sand Size 30/50	Concentration... 3.00	
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration... 1.50	
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration... 2.50	
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration... 0.50	
STAGE 8 on 7/22/2014 12:58						
Date 7/22/2014	Type STAGE 8	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 15,708.0	Max Btm Depth (ftKB) 15,950.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 7,882.00			

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

GEL						
Fluid Name Slickwater			Total Clean Volume (bbl) 7,882.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 7,882.00			
SAND & ACID						
Additive BROWN SAND	Type Bulk Sand	Amount 106,169.0	Units lb	Sand Size 30/50	Concentration... 3.00	
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration... 0.50	
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration... 2.00	
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration... 1.50	
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration... 2.50	
STAGE 9 on 7/22/2014 23:50						
Date 7/22/2014	Type STAGE 9	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 15,408.0	Max Btm Depth (ftKB) 15,650.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 7,524.00			
Fluid Name Slickwater			Total Clean Volume (bbl) 7,524.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 7,524.00			
SAND & ACID						
Additive BROWN SAND	Type Bulk Sand	Amount 99,514.0	Units lb	Sand Size 30/50	Concentration... 3.00	
Additive BROWN SAND	Type Bulk Sand	Amount 45,402.0	Units lb	Sand Size 30/50	Concentration... 1.50	
Additive BROWN SAND	Type Bulk Sand	Amount 89,679.0	Units lb	Sand Size 30/50	Concentration... 2.50	
Additive BROWN SAND	Type Bulk Sand	Amount 11,160.0	Units lb	Sand Size 30/50	Concentration... 0.50	
Additive BROWN SAND	Type Bulk Sand	Amount 26,482.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND	Type Bulk Sand	Amount 63,662.0	Units lb	Sand Size 30/50	Concentration... 2.00	
STAGE 10 on 7/23/2014 14:48						
Date 7/23/2014	Type STAGE 10	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 15,108.0	Max Btm Depth (ftKB) 15,350.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 7,845.00			
Fluid Name Slickwater			Total Clean Volume (bbl) 7,845.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 7,845.00			
SAND & ACID						
Additive BROWN SAND	Type Bulk Sand	Amount 11,610.0	Units lb	Sand Size 30/50	Concentration... 0.50	
Additive BROWN SAND	Type Bulk Sand	Amount 88,372.0	Units lb	Sand Size 30/50	Concentration... 2.50	
Additive BROWN SAND	Type Bulk Sand	Amount 108,119.0	Units lb	Sand Size 30/50	Concentration... 3.00	
Additive BROWN SAND	Type Bulk Sand	Amount 44,464.0	Units lb	Sand Size 30/50	Concentration... 1.50	
Additive BROWN SAND	Type Bulk Sand	Amount 24,502.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND	Type Bulk Sand	Amount 59,672.0	Units lb	Sand Size 30/50	Concentration... 2.00	
STAGE 11 on 7/24/2014 00:52						
Date 7/24/2014	Type STAGE 11	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 14,808.0	Max Btm Depth (ftKB) 15,050.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 7,849.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 7,849.00			

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

GEL						
Fluid Name Slickwater			Total Clean Volume (bbl) 7,849.00			
SAND & ACID						
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration... 0.50	
Additive BROWN SAND	Type Bulk Sand	Amount 106,698.0	Units lb	Sand Size 30/50	Concentration... 3.00	
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration... 2.00	
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration... 1.50	
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration... 2.50	
STAGE 12 on 7/24/2014 10:30						
Date 7/24/2014	Type STAGE 12	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 14,508.0	Max Btm Depth (ftKB) 14,750.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 7,797.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 7,797.00			
Fluid Name Slickwater			Total Clean Volume (bbl) 7,797.00			
SAND & ACID						
Additive BROWN SAND	Type Bulk Sand	Amount 105,673.0	Units lb	Sand Size 30/50	Concentration... 3.00	
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration... 2.00	
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration... 1.50	
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration... 0.50	
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration... 2.50	
STAGE 13 on 7/24/2014 18:23						
Date 7/24/2014	Type STAGE 13	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 14,208.0	Max Btm Depth (ftKB) 14,450.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 7,913.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 7,913.00			
Fluid Name Slickwater			Total Clean Volume (bbl) 7,913.00			
SAND & ACID						
Additive BROWN SAND	Type Bulk Sand	Amount 107,211.0	Units lb	Sand Size 30/50	Concentration... 3.00	
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration... 1.00	
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration... 2.00	
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration... 0.50	
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration... 2.50	
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration... 1.50	
STAGE 14 on 7/25/2014 02:36						
Date 7/25/2014	Type STAGE 14	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services		Min Top Depth (ftKB) 13,908.0	Max Btm Depth (ftKB) 14,150.0
GEL						
Fluid Name 15% HCl			Total Clean Volume (bbl) 8,066.00			
Fluid Name Slickwater			Total Clean Volume (bbl) 8,066.00			
Fluid Name 15# XLink			Total Clean Volume (bbl) 8,066.00			

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 105,567.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...

STAGE 15 on 7/26/2014 16:00

Date 7/26/2014	Type STAGE 15	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 13,608.0	Max Btm Depth (ftKB) 13,850.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,869.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,869.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,869.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 106,120.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...

STAGE 16 on 7/27/2014 19:48

Date 7/27/2014	Type STAGE 16	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 13,308.0	Max Btm Depth (ftKB) 13,550.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,063.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,063.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,063.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 60,313.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 12,389.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 86,269.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 44,586.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 25,418.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 106,427.0	Units lb	Sand Size 30/50	Concentration...

STAGE 17 on 7/28/2014 16:26

Date 7/28/2014	Type STAGE 17	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 13,008.0	Max Btm Depth (ftKB) 13,250.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,837.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,837.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,837.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 106,299.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...

STAGE 18 on 7/28/2014 22:24

Date 7/28/2014	Type STAGE 18	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 12,708.0	Max Btm Depth (ftKB) 12,950.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,672.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,672.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,672.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 105,011.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...

STAGE 19 on 7/30/2014 00:50

Date 7/30/2014	Type STAGE 19	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 12,408.0	Max Btm Depth (ftKB) 12,650.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,668.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,668.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,668.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 104,419.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...

STAGE 20 on 7/30/2014 08:00

Date 7/30/2014	Type STAGE 20	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 12,108.0	Max Btm Depth (ftKB) 12,350.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,517.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,517.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,517.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 43,686.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 11,908.0	Units lb	Sand Size 30/50	Concentration...

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 109,431.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 88,248.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 24,514.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 58,632.0	Units lb	Sand Size 30/50	Concentration...

STAGE 21 on 7/31/2014 06:54

Date 7/31/2014	Type STAGE 21	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 11,808.0	Max Btm Depth (ftKB) 12,050.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,578.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,578.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,578.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 11,640.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 24,653.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 46,211.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 4	Type Bulk Sand	Amount 56,536.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 5	Type Bulk Sand	Amount 94,081.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 102,146.0	Units lb	Sand Size 30/50	Concentration...

STAGE 22 on 7/31/2014 21:00

Date 7/31/2014	Type STAGE 22	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 11,508.0	Max Btm Depth (ftKB) 11,750.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,600.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,600.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,600.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 4	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 5	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 104,993.0	Units lb	Sand Size 30/50	Concentration...

STAGE 23 on 8/1/2014 11:00

Date 8/1/2014	Type STAGE 23	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 11,208.0	Max Btm Depth (ftKB) 11,450.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,336.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,336.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,336.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

SAND & ACID

Additive BROWN SAND 4	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 5	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 105,487.0	Units lb	Sand Size 30/50	Concentration...

STAGE 24 on 8/1/2014 16:45

Date 8/1/2014	Type STAGE 24	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 10,908.0	Max Btm Depth (ftKB) 11,150.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,229.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,229.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,229.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 4	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 5	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 106,247.0	Units lb	Sand Size 30/50	Concentration...

STAGE 25 on 8/1/2014 23:00

Date 8/1/2014	Type STAGE 25	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 10,608.0	Max Btm Depth (ftKB) 10,850.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,618.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,618.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,618.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 4	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 5	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 105,609.0	Units lb	Sand Size 30/50	Concentration...

STAGE 26 on 8/2/2014 07:00

Date 8/2/2014	Type STAGE 26	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 10,308.0	Max Btm Depth (ftKB) 10,550.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,308.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,308.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,308.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 12,434.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 25,320.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 44,784.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 4	Type Bulk Sand	Amount 60,270.0	Units lb	Sand Size 30/50	Concentration...

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

SAND & ACID

Additive BROWN SAND 5	Type Bulk Sand	Amount 88,080.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 104,778.0	Units lb	Sand Size 30/50	Concentration...

STAGE 27 on 8/2/2014 18:50

Date 8/2/2014	Type STAGE 27	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 10,008.0	Max Btm Depth (ftKB) 10,250.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,430.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,430.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,430.00

SAND & ACID

Additive BROWN SAND 1	Type Bulk Sand	Amount 11,836.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 2	Type Bulk Sand	Amount 24,552.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 3	Type Bulk Sand	Amount 44,861.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 4	Type Bulk Sand	Amount 60,096.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 5	Type Bulk Sand	Amount 86,284.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND 6	Type Bulk Sand	Amount 108,837.0	Units lb	Sand Size 30/50	Concentration...

STAGE 28 on 8/2/2014 23:00

Date 8/2/2014	Type STAGE 28	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 9,708.0	Max Btm Depth (ftKB) 9,950.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,572.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,572.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,572.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 13,112.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 44,192.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 25,335.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 59,942.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 104,104.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 88,459.0	Units lb	Sand Size 30/50	Concentration...

STAGE 29 on 8/3/2014 05:00

Date 8/3/2014	Type STAGE 29	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 9,408.0	Max Btm Depth (ftKB) 9,650.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,408.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,408.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,408.00

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 106,109.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 87,500.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive BROWN SAND	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

SAND & ACID

Additive BROWN SAND	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
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STAGE 30 on 8/3/2014 11:42

Date 8/3/2014	Type STAGE 30	Zone Wolfcamp B3, Original Hole	Stim/Treat Company Pioneer Pumping Services	Min Top Depth (ftKB) 9,108.0	Max Btm Depth (ftKB) 9,350.0
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GEL

Fluid Name 15% HCl	Total Clean Volume (bbl) 7,985.00
Fluid Name 15# XLink	Total Clean Volume (bbl) 7,985.00
Fluid Name Slickwater	Total Clean Volume (bbl) 7,985.00

SAND & ACID

Additive Brown Sand	Type Bulk Sand	Amount 60,000.0	Units lb	Sand Size 30/50	Concentration...
Additive Brown Sand	Type Bulk Sand	Amount 45,000.0	Units lb	Sand Size 30/50	Concentration...
Additive Brown Sand	Type Bulk Sand	Amount 91,987.0	Units lb	Sand Size 30/50	Concentration...
Additive Brown Sand	Type Bulk Sand	Amount 12,500.0	Units lb	Sand Size 30/50	Concentration...
Additive Brown Sand	Type Bulk Sand	Amount 25,000.0	Units lb	Sand Size 30/50	Concentration...
Additive Brown Sand	Type Bulk Sand	Amount 105,000.0	Units lb	Sand Size 30/50	Concentration...

Zones

Zone Name	Top (ftKB)
Wolfcamp B3	

Tubing Details

Tubing Description Tubing - Production	Set Depth (ftKB) 8,161.2	Run Date 8/28/2014
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Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Tubing Hanger 2 7/8" EUE Thread	7 1/16			0.40	1	26.5	26.9
Tubing	2 7/8	6.50	L-80	7,780.00	250	26.9	7,806.9
X Profile	2 7/8			1.10	1	7,806.9	7,808.0
Tubing Sub	2 7/8	6.50	L-80	31.30	1	7,808.0	7,839.3
BOH 2 7/8	4	6.50	L-80	0.60	1	7,839.3	7,839.9
ESP - Pump DN1750 CR-CT, ES	4			22.00	1	7,839.9	7,861.9
ESP - Pump DN1750 CR-CT, ES	4			22.00	1	7,861.9	7,883.9
ESP - Pump DN1750 CR-CT, ES	4			22.00	1	7,883.9	7,905.9
ESP - Pump AGH: DS-21, ES	4			6.30	1	7,905.9	7,912.2
Intake : VGSA : D20-60	4			3.40	1	7,912.2	7,915.6
Protector: MAX LSBSB-NTB/KTB, Slotted Base	4			8.00	1	7,915.6	7,923.6
Protector: ADAPTER: 400X375	4			0.30	1	7,923.6	7,923.9
ESP - Motor MAX 71.4 HP/2110V/49.6A	4			20.80	1	7,923.9	7,944.7
ESP - Motor MAX 71.4 HP/2110V/49.6A	4			21.00	1	7,944.7	7,965.7
XT150 Type 1 SLIM LINE	4			3.30	1	7,965.7	7,969.0
Desander 5 1/2 #20	5 1/2			4.70	1	7,969.0	7,973.7
Tubing-Tail Pipe	2 7/8	6.50	L-80	186.50	6	7,973.7	8,160.2
Collar	2 7/8			0.45	1	8,160.2	8,160.7
Bull Plug	2 7/8			0.50	1	8,160.7	8,161.2
Packer Set at 8150' top AS1X	4 5/8			0.00	1	8,161.2	8,161.2

Rod Strings

Rod Description	Set Depth (ftKB)	Run Date
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Rod Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)	Make	Model	SN
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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Other In Hole							
Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug 1 No Drill	17,779.0	17,781.0	4.89	7/19/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 2	17,479.0	17,481.0	4.89	7/20/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 3	17,179.0	17,181.0	4.89	7/20/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 4	16,879.0	16,881.0	4.89	7/21/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 5	16,579.0	16,581.0	4.89	7/21/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 6	16,279.0	16,281.0	4.89	7/21/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 7	15,979.0	15,981.0	4.89	7/22/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 8	15,679.0	15,681.0	4.89	7/22/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 9	15,379.0	15,381.0	4.89	7/23/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 10	15,079.0	15,081.0	4.89	7/23/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 11	14,779.0	14,781.0	4.89	7/24/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 12	14,479.0	14,481.0	4.89	7/24/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 13	14,179.0	14,181.0	4.89	7/24/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 14	13,879.0	13,881.0	4.89	7/25/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 15	13,579.0	13,581.0	4.89	7/26/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 16	13,279.0	13,281.0	4.89	7/27/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 17	12,979.0	12,981.0	4.89	7/28/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 18	12,679.0	12,681.0	4.89	7/29/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 19	12,379.0	12,381.0	4.89	7/30/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 20	12,079.0	12,081.0	4.89	7/30/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 21	11,779.0	11,781.0	4.89	7/31/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 22	11,479.0	11,481.0	4.89	8/1/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 23	11,179.0	11,181.0	4.89	8/1/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 24	10,879.0	10,881.0	4.89	8/1/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 25	10,579.0	10,581.0	4.89	8/2/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 26	10,279.0	10,281.0	4.89	8/2/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 27	9,979.0	9,981.0	4.89	8/2/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 28	9,679.0	9,681.0	4.89	8/2/2014		Production, 18,944.0ftKB	Original Hole
Composite Plug 29	9,379.0	9,381.0	4.89	8/3/2014		Production, 18,944.0ftKB	Original Hole
Kill plug	9,079.0	9,081.0	4.89	8/3/2014		Production, 18,944.0ftKB	Original Hole

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

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					
3/15/2014		MAIN HOLE SURVEY					
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company	
4/19/2014	0.00	0.00	0.00	0.00	0.00	Integrity Directional Services	
3/16/2014	234.00	0.20	43.60	234.00	0.41	Integrity Directional Services	
3/16/2014	331.00	0.20	47.30	331.00	0.75	Integrity Directional Services	
3/16/2014	423.00	0.00	126.40	423.00	0.91	Integrity Directional Services	
3/16/2014	516.00	0.20	105.40	516.00	1.07	Integrity Directional Services	
3/16/2014	608.00	0.10	168.00	608.00	1.28	Integrity Directional Services	
3/16/2014	701.00	0.30	144.50	701.00	1.60	Integrity Directional Services	
3/16/2014	794.00	0.20	168.80	794.00	2.00	Integrity Directional Services	
3/16/2014	886.00	0.10	144.10	886.00	2.23	Integrity Directional Services	
3/16/2014	980.00	0.10	137.70	980.00	2.40	Integrity Directional Services	
3/16/2014	1,075.00	0.10	159.70	1,075.00	2.56	Integrity Directional Services	
3/16/2014	1,137.00	0.30	158.40	1,137.00	2.78	Integrity Directional Services	
3/16/2014	1,262.00	0.50	194.60	1,261.99	3.61	Integrity Directional Services	
3/16/2014	1,356.00	0.50	151.10	1,355.99	4.37	Integrity Directional Services	
3/16/2014	1,451.00	0.40	178.50	1,450.99	5.09	Integrity Directional Services	
3/16/2014	1,545.00	0.40	146.50	1,544.98	5.73	Integrity Directional Services	
3/16/2014	1,640.00	0.60	150.00	1,639.98	6.55	Integrity Directional Services	
3/16/2014	1,734.00	0.70	150.90	1,733.97	7.62	Integrity Directional Services	
3/16/2014	1,828.00	1.00	131.70	1,827.96	9.00	Integrity Directional Services	
3/16/2014	1,923.00	0.40	62.60	1,922.96	9.99	Integrity Directional Services	
3/16/2014	2,018.00	0.60	3.20	2,017.96	10.72	Integrity Directional Services	
3/16/2014	2,112.00	0.60	17.90	2,111.95	11.69	Integrity Directional Services	
3/18/2014	2,207.00	0.80	27.30	2,206.94	12.85	Integrity Directional Services	
3/18/2014	2,301.00	0.70	19.90	2,300.93	14.08	Integrity Directional Services	
3/18/2014	2,396.00	0.80	23.60	2,395.93	15.32	Integrity Directional Services	
3/18/2014	2,490.00	0.80	15.00	2,489.92	16.63	Integrity Directional Services	
3/18/2014	2,585.00	1.00	16.20	2,584.91	18.12	Integrity Directional Services	
3/18/2014	2,679.00	0.80	20.90	2,678.89	19.60	Integrity Directional Services	
3/18/2014	2,774.00	1.10	14.30	2,773.88	21.17	Integrity Directional Services	
3/18/2014	2,868.00	1.90	280.10	2,867.86	22.91	Integrity Directional Services	
3/18/2014	2,963.00	1.10	331.90	2,962.83	25.17	Integrity Directional Services	
3/19/2014	3,057.00	2.30	268.50	3,056.79	27.60	Integrity Directional Services	
3/19/2014	3,152.00	1.30	240.40	3,151.75	30.50	Integrity Directional Services	
3/19/2014	3,247.00	1.00	218.80	3,246.73	32.37	Integrity Directional Services	
3/19/2014	3,341.00	1.00	227.40	3,340.71	34.01	Integrity Directional Services	
3/19/2014	3,436.00	0.70	215.90	3,435.70	35.41	Integrity Directional Services	
3/19/2014	3,530.00	0.60	244.40	3,529.70	36.44	Integrity Directional Services	
3/19/2014	3,625.00	0.40	263.90	3,624.69	37.26	Integrity Directional Services	
3/19/2014	3,719.00	0.10	251.20	3,718.69	37.67	Integrity Directional Services	
3/19/2014	3,814.00	0.40	322.80	3,813.69	38.04	Integrity Directional Services	
3/19/2014	3,908.00	0.40	323.90	3,907.69	38.69	Integrity Directional Services	
3/19/2014	4,003.00	0.40	304.80	4,002.69	39.35	Integrity Directional Services	
3/19/2014	4,097.00	0.40	333.50	4,096.69	39.98	Integrity Directional Services	
3/19/2014	4,192.00	0.20	42.00	4,191.68	40.40	Integrity Directional Services	
3/19/2014	4,287.00	0.10	254.90	4,286.68	40.51	Integrity Directional Services	
3/19/2014	4,381.00	0.20	231.80	4,380.68	40.75	Integrity Directional Services	
3/20/2014	4,476.00	0.20	212.12	4,475.68	41.08	Integrity Directional Services	
3/20/2014	4,570.00	0.40	229.00	4,569.68	41.57	Integrity Directional Services	

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 45H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
3/20/2014	4,665.00	0.40	246.60	4,664.68	42.22	Integrity Directional Services
3/20/2014	4,760.00	0.30	233.10	4,759.68	42.80	Integrity Directional Services
3/20/2014	4,854.00	0.20	240.40	4,853.68	43.21	Integrity Directional Services
3/20/2014	4,949.00	0.30	225.50	4,948.68	43.62	Integrity Directional Services
3/20/2014	5,043.00	0.20	167.70	5,042.67	43.98	Integrity Directional Services
3/20/2014	5,138.00	0.20	137.30	5,137.67	44.30	Integrity Directional Services
3/21/2014	5,232.00	0.20	194.90	5,231.67	44.59	Integrity Directional Services
3/21/2014	5,328.00	1.10	22.00	5,327.67	45.34	Integrity Directional Services
3/21/2014	5,422.00	1.50	23.60	5,421.64	47.48	Integrity Directional Services
3/21/2014	5,516.00	1.40	18.10	5,515.61	49.85	Integrity Directional Services
3/21/2014	5,610.00	0.90	43.10	5,609.60	51.70	Integrity Directional Services
3/21/2014	5,705.00	0.70	60.00	5,704.59	53.01	Integrity Directional Services
3/21/2014	5,799.00	0.60	39.30	5,798.58	54.06	Integrity Directional Services
3/21/2014	5,894.00	0.50	16.80	5,893.58	54.95	Integrity Directional Services
3/21/2014	5,988.00	0.20	12.70	5,987.57	55.52	Integrity Directional Services
3/21/2014	6,082.00	0.40	159.10	6,081.57	55.74	Integrity Directional Services
3/21/2014	6,177.00	0.70	176.50	6,176.57	56.64	Integrity Directional Services
3/21/2014	6,271.00	0.50	144.60	6,270.56	57.59	Integrity Directional Services
3/21/2014	6,366.00	0.70	124.20	6,365.56	58.57	Integrity Directional Services
3/21/2014	6,460.00	0.70	145.10	6,459.55	59.70	Integrity Directional Services
3/21/2014	6,554.00	0.90	161.00	6,553.54	61.00	Integrity Directional Services
3/21/2014	6,649.00	0.60	157.60	6,648.54	62.24	Integrity Directional Services
3/21/2014	6,743.00	0.70	150.60	6,742.53	63.30	Integrity Directional Services
3/21/2014	6,837.00	0.50	129.50	6,836.52	64.27	Integrity Directional Services
3/22/2014	6,932.00	0.40	142.40	6,931.52	65.01	Integrity Directional Services
3/22/2014	7,026.00	0.40	171.00	7,025.52	65.65	Integrity Directional Services
3/22/2014	7,120.00	0.40	171.50	7,119.52	66.30	Integrity Directional Services
3/22/2014	7,215.00	0.50	186.30	7,214.51	67.04	Integrity Directional Services
3/22/2014	7,309.00	0.50	208.00	7,308.51	67.85	Integrity Directional Services
3/22/2014	7,403.00	0.40	215.00	7,402.51	68.59	Integrity Directional Services
3/22/2014	7,497.00	0.20	203.30	7,496.51	69.08	Integrity Directional Services
3/22/2014	7,592.00	0.70	179.40	7,591.50	69.81	Integrity Directional Services
3/22/2014	7,686.00	2.00	180.60	7,685.47	72.03	Integrity Directional Services
3/22/2014	7,781.00	2.90	177.20	7,780.39	76.09	Integrity Directional Services
3/22/2014	7,875.00	3.30	178.00	7,874.25	81.17	Integrity Directional Services
3/23/2014	7,970.00	4.10	174.60	7,969.05	87.30	Integrity Directional Services
3/23/2014	8,064.00	5.60	175.60	8,062.71	95.24	Integrity Directional Services
3/23/2014	8,159.00	6.90	179.10	8,157.14	105.58	Integrity Directional Services
3/23/2014	8,253.00	6.40	178.70	8,250.51	116.47	Integrity Directional Services
3/23/2014	8,271.00	6.20	178.70	8,268.40	118.44	Integrity Directional Services
3/23/2014	8,362.00	5.00	177.80	8,358.97	127.32	Integrity Directional Services
3/26/2014	8,457.00	6.20	182.80	8,453.51	136.58	Integrity Directional Services
3/26/2014	8,488.00	6.30	182.20	8,484.33	139.96	Integrity Directional Services
3/27/2014	8,520.00	8.80	185.20	8,516.05	144.16	Integrity Directional Services
3/27/2014	8,551.00	12.90	187.80	8,546.49	149.99	Integrity Directional Services
3/27/2014	8,583.00	17.10	187.00	8,577.39	158.27	Integrity Directional Services
3/27/2014	8,614.00	21.80	186.10	8,606.61	168.59	Integrity Directional Services
3/27/2014	8,646.00	25.70	185.40	8,635.90	181.48	Integrity Directional Services
3/27/2014	8,677.00	28.40	184.00	8,663.50	195.57	Integrity Directional Services
3/27/2014	8,709.00	30.90	182.20	8,691.31	211.40	Integrity Directional Services
3/27/2014	8,740.00	33.10	181.40	8,717.60	227.83	Integrity Directional Services
3/27/2014	8,772.00	35.30	180.10	8,744.07	245.81	Integrity Directional Services
3/27/2014	8,804.00	37.10	180.90	8,769.89	264.71	Integrity Directional Services
3/27/2014	8,835.00	39.50	181.60	8,794.21	283.92	Integrity Directional Services
3/27/2014	8,867.00	42.90	182.20	8,818.29	305.00	Integrity Directional Services
3/27/2014	8,898.00	46.00	182.90	8,840.42	326.70	Integrity Directional Services

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Well Name: UNIVERSITY 3-19 45H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
3/27/2014	8,929.00	48.70	183.10	8,861.42	349.50	Integrity Directional Services
3/27/2014	8,961.00	52.40	183.20	8,881.75	374.21	Integrity Directional Services
3/27/2014	8,992.00	56.00	182.70	8,899.88	399.35	Integrity Directional Services
3/27/2014	9,024.00	58.90	181.90	8,917.09	426.32	Integrity Directional Services
3/27/2014	9,055.00	60.90	180.80	8,932.64	453.13	Integrity Directional Services
3/27/2014	9,087.00	62.90	180.10	8,947.71	481.36	Integrity Directional Services
3/27/2014	9,118.00	66.40	179.80	8,960.98	509.37	Integrity Directional Services
3/27/2014	9,150.00	70.10	179.70	8,972.84	539.09	Integrity Directional Services
3/27/2014	9,181.00	73.80	180.80	8,982.44	568.56	Integrity Directional Services
3/27/2014	9,213.00	77.80	182.50	8,990.29	599.57	Integrity Directional Services
3/27/2014	9,244.00	81.80	184.60	8,995.78	630.07	Integrity Directional Services
3/27/2014	9,276.00	85.80	185.30	8,999.23	661.88	Integrity Directional Services
3/29/2014	9,308.00	87.50	184.50	9,001.10	693.82	Integrity Directional Services
3/29/2014	9,371.00	89.30	183.10	9,002.86	756.79	Integrity Directional Services
3/29/2014	9,402.00	88.90	182.00	9,003.35	787.79	Integrity Directional Services
3/29/2014	9,497.00	89.20	180.60	9,004.93	882.77	Integrity Directional Services
3/29/2014	9,591.00	91.00	180.10	9,004.76	976.77	Integrity Directional Services
3/29/2014	9,685.00	90.90	180.10	9,003.20	1,070.76	Integrity Directional Services
3/29/2014	9,780.00	90.50	180.10	9,002.04	1,165.75	Integrity Directional Services
3/29/2014	9,874.00	88.70	178.70	9,002.70	1,259.74	Integrity Directional Services
3/29/2014	9,969.00	90.20	179.40	9,003.61	1,354.73	Integrity Directional Services
3/29/2014	10,063.00	90.20	179.50	9,003.28	1,448.73	Integrity Directional Services
3/29/2014	10,157.00	90.20	179.40	9,002.95	1,542.73	Integrity Directional Services
3/29/2014	10,252.00	89.20	176.60	9,003.45	1,637.72	Integrity Directional Services
3/29/2014	10,346.00	89.60	176.20	9,004.44	1,731.71	Integrity Directional Services
3/29/2014	10,441.00	91.90	179.00	9,003.19	1,826.69	Integrity Directional Services
3/29/2014	10,535.00	92.50	181.60	8,999.58	1,920.61	Integrity Directional Services
3/29/2014	10,630.00	87.80	179.40	8,999.33	2,015.58	Integrity Directional Services
3/29/2014	10,718.00	90.60	180.30	9,000.56	2,103.56	Integrity Directional Services
3/29/2014	10,811.00	89.10	182.10	9,000.81	2,196.55	Integrity Directional Services
3/29/2014	10,904.00	91.20	182.70	9,000.56	2,289.55	Integrity Directional Services
3/29/2014	10,996.00	92.20	182.70	8,997.83	2,381.51	Integrity Directional Services
3/31/2014	11,088.00	93.30	182.40	8,993.42	2,473.40	Integrity Directional Services
3/31/2014	11,183.00	93.20	182.20	8,988.03	2,568.25	Integrity Directional Services
3/31/2014	11,277.00	92.70	182.60	8,983.20	2,662.12	Integrity Directional Services
3/31/2014	11,371.00	89.90	182.30	8,981.06	2,756.09	Integrity Directional Services
3/31/2014	11,466.00	90.70	182.50	8,980.57	2,851.09	Integrity Directional Services
3/31/2014	11,560.00	88.70	179.90	8,981.06	2,945.07	Integrity Directional Services
3/31/2014	11,655.00	89.10	180.50	8,982.88	3,040.05	Integrity Directional Services
3/31/2014	11,749.00	88.90	180.10	8,984.52	3,134.04	Integrity Directional Services
3/31/2014	11,843.00	91.40	181.80	8,984.28	3,228.03	Integrity Directional Services
3/31/2014	11,938.00	89.10	179.20	8,983.86	3,323.01	Integrity Directional Services
4/1/2014	12,032.00	89.10	177.50	8,985.34	3,417.00	Integrity Directional Services
4/2/2014	12,127.00	92.70	180.70	8,983.85	3,511.96	Integrity Directional Services
4/2/2014	12,221.00	92.40	180.10	8,979.66	3,605.86	Integrity Directional Services
4/2/2014	12,316.00	89.50	181.40	8,978.09	3,700.84	Integrity Directional Services
4/2/2014	12,410.00	90.80	183.20	8,977.84	3,794.83	Integrity Directional Services
4/2/2014	12,504.00	92.40	184.60	8,975.22	3,888.79	Integrity Directional Services
4/2/2014	12,599.00	89.40	184.50	8,973.73	3,983.77	Integrity Directional Services
4/5/2014	12,693.00	88.90	184.30	8,975.12	4,077.76	Integrity Directional Services
4/5/2014	12,787.00	91.30	185.00	8,974.96	4,171.75	Integrity Directional Services
4/7/2014	12,882.00	89.90	184.20	8,973.96	4,266.74	Integrity Directional Services
4/7/2014	12,976.00	89.20	184.20	8,974.70	4,360.74	Integrity Directional Services
4/8/2014	13,070.00	89.80	184.40	8,975.52	4,454.73	Integrity Directional Services
4/8/2014	13,164.00	88.30	183.10	8,977.08	4,548.72	Integrity Directional Services
4/8/2014	13,259.00	88.00	181.30	8,980.15	4,643.66	Integrity Directional Services

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Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
4/8/2014	13,353.00	91.30	181.60	8,980.72	4,737.65	Integrity Directional Services
4/8/2014	13,448.00	92.90	182.20	8,977.24	4,832.58	Integrity Directional Services
4/8/2014	13,542.00	90.10	181.10	8,974.78	4,926.54	Integrity Directional Services
4/8/2014	13,637.00	89.90	180.40	8,974.78	5,021.54	Integrity Directional Services
4/8/2014	13,731.00	90.80	181.40	8,974.20	5,115.53	Integrity Directional Services
4/8/2014	13,826.00	91.80	182.30	8,972.05	5,210.51	Integrity Directional Services
4/8/2014	13,920.00	87.90	180.60	8,972.30	5,304.48	Integrity Directional Services
4/9/2014	14,014.00	87.70	179.40	8,975.90	5,398.41	Integrity Directional Services
4/9/2014	14,109.00	88.40	179.50	8,979.14	5,493.36	Integrity Directional Services
4/9/2014	14,203.00	93.40	180.40	8,977.66	5,587.32	Integrity Directional Services
4/9/2014	14,289.00	94.10	180.90	8,972.04	5,673.13	Integrity Directional Services
4/9/2014	14,392.00	89.90	179.40	8,968.44	5,776.04	Integrity Directional Services
4/9/2014	14,487.00	90.50	179.90	8,968.11	5,871.04	Integrity Directional Services
4/10/2014	14,581.00	91.70	180.50	8,966.31	5,965.02	Integrity Directional Services
4/10/2014	14,676.00	90.00	181.20	8,964.90	6,060.01	Integrity Directional Services
4/10/2014	14,771.00	90.70	181.80	8,964.32	6,155.00	Integrity Directional Services
4/10/2014	14,866.00	91.00	181.40	8,962.91	6,249.99	Integrity Directional Services
4/10/2014	14,960.00	88.70	181.00	8,963.15	6,343.99	Integrity Directional Services
4/10/2014	15,055.00	90.70	182.20	8,963.65	6,438.98	Integrity Directional Services
4/10/2014	15,149.00	90.80	182.60	8,962.42	6,532.97	Integrity Directional Services
4/10/2014	15,243.00	88.50	182.30	8,962.99	6,626.96	Integrity Directional Services
4/10/2014	15,338.00	89.50	182.60	8,964.65	6,721.95	Integrity Directional Services
4/10/2014	15,433.00	90.60	183.30	8,964.57	6,816.94	Integrity Directional Services
4/10/2014	15,527.00	91.90	183.80	8,962.52	6,910.92	Integrity Directional Services
4/11/2014	15,622.00	92.20	184.50	8,959.12	7,005.86	Integrity Directional Services
4/11/2014	15,716.00	88.20	183.90	8,958.79	7,099.84	Integrity Directional Services
4/13/2014	15,811.00	87.70	183.60	8,962.19	7,194.78	Integrity Directional Services
4/13/2014	15,905.00	88.70	181.40	8,965.14	7,288.72	Integrity Directional Services
4/13/2014	16,000.00	88.50	180.20	8,967.46	7,383.69	Integrity Directional Services
4/13/2014	16,094.00	90.20	181.20	8,968.53	7,477.68	Integrity Directional Services
4/13/2014	16,188.00	90.10	181.60	8,968.28	7,571.68	Integrity Directional Services
4/13/2014	16,283.00	91.60	181.90	8,966.88	7,666.67	Integrity Directional Services
4/13/2014	16,377.00	95.30	183.50	8,961.22	7,760.48	Integrity Directional Services
4/14/2014	16,472.00	95.80	183.70	8,952.03	7,855.03	Integrity Directional Services
4/14/2014	16,567.00	96.10	182.90	8,942.18	7,949.52	Integrity Directional Services
4/14/2014	16,661.00	93.60	181.70	8,934.24	8,043.17	Integrity Directional Services
4/14/2014	16,693.00	94.70	181.20	8,931.92	8,075.09	Integrity Directional Services
4/14/2014	16,724.00	95.80	181.40	8,929.08	8,105.96	Integrity Directional Services
4/14/2014	16,756.00	95.10	181.60	8,926.05	8,137.81	Integrity Directional Services
4/15/2014	16,787.00	95.30	181.40	8,923.24	8,168.69	Integrity Directional Services
4/16/2014	16,818.00	94.20	180.80	8,920.67	8,199.58	Integrity Directional Services
4/16/2014	16,849.00	92.10	179.10	8,918.97	8,230.53	Integrity Directional Services
4/16/2014	16,881.00	91.80	178.30	8,917.88	8,262.51	Integrity Directional Services
4/16/2014	16,912.00	92.00	178.40	8,916.85	8,293.49	Integrity Directional Services
4/17/2014	16,944.00	90.70	177.40	8,916.09	8,325.48	Integrity Directional Services
4/17/2014	16,975.00	90.40	176.50	8,915.80	8,356.48	Integrity Directional Services
4/17/2014	17,038.00	90.20	175.40	8,915.47	8,419.48	Integrity Directional Services
4/17/2014	17,132.00	90.90	175.20	8,914.56	8,513.48	Integrity Directional Services
4/17/2014	17,227.00	91.00	175.80	8,912.99	8,608.46	Integrity Directional Services
4/17/2014	17,322.00	91.40	175.90	8,911.00	8,703.44	Integrity Directional Services
4/17/2014	17,416.00	90.20	178.00	8,909.69	8,797.43	Integrity Directional Services
4/17/2014	17,510.00	90.30	177.90	8,909.28	8,891.42	Integrity Directional Services
4/17/2014	17,605.00	90.20	179.10	8,908.86	8,986.42	Integrity Directional Services
4/18/2014	17,699.00	89.30	180.40	8,909.27	9,080.42	Integrity Directional Services
4/18/2014	17,794.00	89.50	179.80	8,910.27	9,175.41	Integrity Directional Services
4/18/2014	17,888.00	89.50	179.20	8,911.09	9,269.41	Integrity Directional Services

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Well Name: UNIVERSITY 3-19 45H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
4/18/2014	17,983.00	89.80	178.50	8,911.67	9,364.41	Integrity Directional Services
4/18/2014	18,078.00	89.50	177.90	8,912.25	9,459.40	Integrity Directional Services
4/18/2014	18,172.00	89.60	179.10	8,912.99	9,553.40	Integrity Directional Services
4/18/2014	18,266.00	90.10	179.00	8,913.23	9,647.40	Integrity Directional Services
4/18/2014	18,361.00	90.90	179.00	8,912.40	9,742.39	Integrity Directional Services
4/18/2014	18,456.00	91.40	178.70	8,910.50	9,837.37	Integrity Directional Services
4/18/2014	18,550.00	91.60	178.20	8,908.04	9,931.34	Integrity Directional Services
4/18/2014	18,645.00	92.00	178.30	8,905.05	10,026.29	Integrity Directional Services
4/19/2014	18,739.00	92.90	178.40	8,901.03	10,120.21	Integrity Directional Services
4/19/2014	18,834.00	93.20	177.90	8,895.98	10,215.07	Integrity Directional Services
4/19/2014	18,898.00	93.50	177.90	8,892.24	10,278.96	Integrity Directional Services
4/19/2014	18,950.00	93.50	177.90	8,889.07	10,330.87	Integrity Directional Services