

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

API/UWI 42-461-39975-0000	Property Sub 927711-053	Operator PIONEER NATURAL RESRC USA, INC	State TEXAS	County UPTON
Field Name SPRABERRY (TREND AREA)		Surface Legal Location 2350' FNL/ 2447' FWL, SEC: 18, BLK: 3, AB: A-18U, SVY: UNIVERSITY LANDS		
Spud Date 2/8/2015	TD Date 4/5/2015	Drilling Rig Release Date 4/9/2015	Frac Date 5/8/2015	On Production Date
Ground Elevation (ft) 2,683.00	Original KB Elevation (ft) 2,709.50	PBTD (All) (ftKB)	Total Depth (All) (ftKB) Original Hole - 18,430.0	Total Depth All (TVD) (ftKB) Original Hole - 8,612.2

Report #: 1 Daily Operation: 2/6/2015 06:00 - 2/7/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
Days From Spud (days) -2	Days on Location (days) 1	End Depth (ftKB) 0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig H & P, 606

Operations Summary
Hold rig move safety meeting with all involved personnel. Continue to rig down and move rig F/ University 3-14 49H T/ University 3-19 37H. Set in rig and rig up.
Completion percentages: 30% Moved, 20% Set in, 5% R/U.

Remarks
Rig (H&P 606) & Well Progress: 1.0 Rig Move Days, 0 Days From Spud, 1 Total Days On Well, 1 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

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

Est. spud date: University 3-19 37H - 2/8/2015 @ 18:00 hrs

Time Log Summary

Operation	Com	Dur (hr)
RDMO	Clean sub & derrick w/ Long Point Oilfield Services rig cleaners.	1
RDMO	Pre Job safety meeting discussing moving equipment to new location safely w/ Patterson Crane & Trucks, H&P crew, & PNR Rep. Discussed loading & offloading trucks, heavy lifts with cranes, staying out from suspended loads, keeping good communication & maintaining eye contact with cranes, & rigging up on new location. Discussed that we will have a lot going on & that anyone can stop the job at any time if they feel something is unsafe.	0.5
RDMO	RDMO & MIRU both mud pumps, all active pits and settling pit, 3-generators, VFD, MCC house, fuel tank, trip tanks and set in place on University 3-19 37H RDMO draworks, cable trays, Crown and A-leg section of mast, closing unit, lube/pump house, drill line spool. Long Point Oilfield services pressure washing load skids leaving location. Rig move equipment: 7 haul trucks, 2 pole trucks, 2 forklifts, 3 - 110T crawler cranes (1 crane did not arrive on old location until 12:30 hrs), 1 - 75T Hyd. crane Rig move percentage: 30% moved, 20% set in & 5% R/U.	11.5
MIRU	Run out and rig up all hoses and lines on mud pits and mud pumps. Wire up gen sets to VFD house. Build containment, set frac tanks and transfer 2183 BBLs OBM F/ University 3-14 49H T/ University 3-19 37H	11

Report #: 2 Daily Operation: 2/7/2015 06:00 - 2/8/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
Days From Spud (days) -1	Days on Location (days) 2	End Depth (ftKB) 0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig H & P, 606

Operations Summary
Hold rig move safety meeting with all involved personnel. Continue MIRU F/ University 3-14 49H T/ University 3-19 37H

Completion percentages: 85% Moved, 70% Set in, 50% R/U.

Remarks
Rig (H&P 606) & Well Progress: 2.0 Rig Move Days, 0 Days From Spud, 2 Total Days On Well, 2 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

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

Est. spud date: University 3-19 37H - 2/8/2015 @ 18:00 hrs

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	Pre Job safety meeting discussing moving equipment to new location safely w/ Patterson Crane & Trucks, H&P crew, & PNR Rep. Discussed loading & offloading trucks, heavy lifts with cranes, staying out from suspended loads, keeping good communication & maintaining eye contact with cranes, & rigging up on new location. Discussed that we will have a lot going on & that anyone can stop the job at any time if they feel something is unsafe.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
MIRU	<p>RDMO & MIRU; Place skid rails in place, substructure in place pinning to mud boat, set drawwork, pin both section of derrick together and place derick board. Hoist derrick to floor and raise and pin derrick. Rig up back yard, cable tray, MMC, unpin cylinders from derrick and retract, raise drillers cabin and plug in electrical cables, straighten cables in derrick and start to dress out floor</p> <p>Verify over the center of well on the University 3-19 # 37H w/ well supervisor B.P. Epps, rig manager Steven Iberra & Drill Teck Ken Richardson Long Point Oilfield services pressure washing load skids leaving location.</p> <p>Rig move equipment: 12 haul trucks, 2 forklifts, 3 - 110T crawler cranes 1 - 75T Hyd. crane</p> <p>Rig move percentage: 85% moved, 80% set in & 50% R/U.</p> <p>Notified TRRC about sud @ 1:45 pm 2/7/2015 spoke to Pam</p>	23

Report #: 3 Daily Operation: 2/8/2015 06:00 - 2/9/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 034476	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
0	3	679.0	678.9	8.50	H & P, 606

Operations Summary

Hold rig move safety meeting with all involved personnel. Continue MIRU F/ University 3-14 49H T/ University 3-19 37H
Completion percentages: 100% Moved, 100% Set in, 100% R/U. Pre-spud inspection, P/U & M/U surface BHA, Drill surface F/ 147' T/ 679'

Remarks

Rig (H&P 606) & Well Progress: 2.6 Rig Move Days, .4 Days From Spud, 3 Total Days On Well, 3 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

Completion percentage: Surface - 90%, Intermediate -0%, Curve - 0%, Lateral - 0%

Spud date: University 3-19 37H - 2/8/2015 @ 20:30 hrs

Time Log Summary

Operation	Com	Dur (hr)
MIRU	<p>MIRU: raise gas buster, stand pipe on MCC, assemble flow line, spool drawworks, set steps, position pipe wrangler; fuction test top drive, pumps, drawworks & calibrate blocks Set & rig up back yard, monster pit, open tops, solids control & rig up cellar pumps. Pump through and test mud delivery sistem. Perform pre-spud inspection.</p> <p>Rig move percentage: 100% moved, 100% set in & 100% R/U.</p> <p>Notified TRRC about cementing surface casing @ 12:30 pm 2/8/2015 spoke to Cindy</p>	10.5
BHA_HAN DLING	<p>EJSA with rig crew. Lay out and strap BHA. Make up bit on bit sub with floa and 17 1/4" IB stab. TIH with 8" DC T/ 130'. Drill cement F/ 130' T/ 146'. 120 SPM, 460 GPM, 40 RPM, 420 SPP PSI, 4-6K TQ 100% Returns</p> <p>Commission rig @ 16:30 hrs on 2/8/2015</p>	4
DRL_ROT	<p>Rotate Drill 17 1/2" Surface Section 532' @ 56'/hr, 80 - 140 spm, 307 - 537 gpm, 90-450 psi SPP, 40 - 100 top drive rpm, 5- 25k wob, 3-9k torque. Avg MSE- 2 - 4. 2 soap sticks on every other connection, pumping 1 SAPP stick and 1 gal/Stardrill AP on off connections</p> <p>Note: Lost full returns @ 150', Spoke with PNR Drlg. Supt. and decision was make to drill surface hole with no returns. Dropped pumps to 307 gpm and continued to drill while taking torque and drag readings every 30'. No excess torque or drag / stack weight noted.</p>	9.5

Report #: 4 Daily Operation: 2/9/2015 06:00 - 2/10/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 034476	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
1	4	736.0	735.9	8.50	H & P, 606

Operations Summary

Operations Summary
TD Surface at 736' and run Gyro survey. TOOH and run 13 3/8" surface casing. Cement and run temp log. Top out cement. Install wellhead and test. Nipple up BOP.

Remarks

Rig (H&P 606) & Well Progress: 3.6 Rig Move Days, 1.4 Days From Spud, 4 Total Days On Well, 4 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

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

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary																													
Operation	Com	Dur (hr)																											
DRL_ROT	<p>Rotate Drill 17 1/2" Surface Section 57' @ 114'/hr, 140 spm, 537 gpm, 450 psi SPP, 100 top drive rpm, 25k wob, 9k torque. Avg MSE-2 - 4. 2 soap sticks on every other connection, pumping 1 SAPP stick and 1 gal/Stardrill AP on off connections w/ no returns to surface</p> <p>Note: Lost full returns @ 150',</p> <p>TD surface hole @ 6:15 am 2/9/2015</p> <p>1 Generator running</p>	0.5																											
CIRC	<p>Pump 2 x 30 BBL h-vis (60 vis) sweep (2200 stks surface to surface) w/ 10 ppb nut plug for 2 total circulations, w/ no returns.</p> <p>(Note)TRRC job # 1129 for University 3-19 #37H</p>	1																											
LOG	Held safety meeting with VES and H&P crew.	0.5																											
LOG	<p>RU VES gyro survey @ TD of surface.</p> <p>Run survey every 100'.</p> <table border="1"> <thead> <tr> <th>MD</th> <th>INC</th> <th>AZM</th> </tr> </thead> <tbody> <tr> <td>100'</td> <td>0.57</td> <td>265.96</td> </tr> <tr> <td>200'</td> <td>0.92</td> <td>279.50</td> </tr> <tr> <td>300'</td> <td>0.70</td> <td>273.58</td> </tr> <tr> <td>400'</td> <td>0.93</td> <td>280.41</td> </tr> <tr> <td>500'</td> <td>0.69</td> <td>277.69</td> </tr> <tr> <td>600'</td> <td>0.80</td> <td>298.18</td> </tr> <tr> <td>700'</td> <td>0.84</td> <td>272.09</td> </tr> <tr> <td>735'</td> <td>0.78</td> <td>265.86</td> </tr> </tbody> </table>	MD	INC	AZM	100'	0.57	265.96	200'	0.92	279.50	300'	0.70	273.58	400'	0.93	280.41	500'	0.69	277.69	600'	0.80	298.18	700'	0.84	272.09	735'	0.78	265.86	1
MD	INC	AZM																											
100'	0.57	265.96																											
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700'	0.84	272.09																											
735'	0.78	265.86																											
TOOH	POOH w/ surface string. Rack back HWDP & Collars, no drag.	3																											
BHA_HAN DLING	Clean rig floor.	0.5																											
SAFETY	Hold Pre Job Safety Meeting & review EJSA with Butch's Casing, Rig Crews & PNR CM over rigging up casing crew & running 13 3/8" casing. Rig Up Casing Crew to Run 13 3/8 Surface Casing.	1																											
CASE	Make up FS, 1 JT of 13-3/8" 54.5 ppf J-55 BTC, and FC. Torque - 9000 ft/lbs to base of diamond. Thread locked all threads in shoe track, including the joint on top of float collar & test- Good. RIH to 736'. Fill pipe when needed, no returns to surface.	3.5																											
CIRC	Circulate 1 casing capacity to clear pipe while rigging down Butch's casing crew. No returns to cellar	0.5																											
CMT	Hold safety meeting & EJSA. Rig up Schlumberger cementing equipment and center surface casing in rotary table.	1.5																											
CMT	<p>Schlumberger cemented 13-3/8" 54.5 ppf J-55 BTC Surface Casing as follows: Pressure test lines to 3000 psi.</p> <p>50 bbls 8.33 lb/gal of fresh water spacer.</p> <p>Tail Cement 568 Sks (171 BBL) of Class "C" Cement with 3.0% BWOB D020 Extender, 2.0% BWOB S001 CaCl2 , mixed @ 13.6 ppg, 1.70 ft3/sk yield, 8.871 gal/Sk mixing water.</p> <p>Drop top plug with tattle tail witnessed by Pioneer Representative & SLB Supervisor. Displace cement with 105 bbls of 8.33 ppg fresh water. Displaced final 10 bbls at 2.2 bpm & bump plug 532 psi over @ 690 psi, final lift pressure of 158 psi. Held pressure for 5 min, bled back 1/2 bbl</p> <p>Lift Pressures: 50 bbls - 4 bpm, 90 psi; 60 bbls- 4 bpm,125 psi; 70 bbls -4 bpm, 150 psi; 80 bbls-4 bpm, 200 psi; 90 bbls- 4 bpm, 220 psi; 100 bbls- 2.0 bpm, 140 psi, 105 bbls- 2 bpm, 158 psi bump plug @ 20:20 hrs. No returns to surface throughout job</p>	1.5																											
CMT	Rig down cement head and bowl	0.5																											
LOG	<p>Spoke with PNR drlg. supt and PNR Drlg. engineer and decision was made to run temp log to locate TOC as per TRRC.</p> <p>PNR Drlg Engineer Phil Curry spoke with TRRC Rep Troyce McKnight @ 9:45 PM - 2/9/2015 and was granted approval to top out - Job #1129.</p> <p>EJSA & R/U wireline equipment. Run temp log with VES T/ 691' and R/D.</p> <p>Temp. log results showed TOC @ 160' KB.</p>	1.5																											

Time Log Summary		
Operation	Com	Dur (hr)
CMT	Held PJSM and picked up 120' of 1" tubing and ran in annulus. Pumped 30 bbls 14.8 ppg, class C cement, 1.33 ft3/sk yield, 6.366 gal/sk mix water. Mixed pea gravel, CaCl2 and sim net LCM in annulus while pumping cement. Full returns to surface 22 bbls into cement top out job. Monitored cellar for 1 hr and noted cement was not falling. Pump cement out of cellar.	1.5
CMT	Rig down and wash through 1" tubing, cementing lines and cellar pumps.	0.5
WLHEAD	Prepare hot work & confined space permit and check gas contents in cellar - 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). Preheat & Weld wellhead on casing. Let cool for 30 min then test well head to 565 PSI for 5 min - Good test.	3.5
NU_TEST	Hold PJSM with rig crew and Big 6 Torque and Tesr Install spacer spool and DSA on wellhead and N/U BOP. Note: All Tail and Top out cement samples are set up at 0600 hrs 2/10/2015 1 generator running 100% of last 24 hrs.	2

Report #: 5 Daily Operation: 2/10/2015 06:00 - 2/11/2015 06:00						
Job Category			Primary Job Type		AFE Number	
ORIG DRILLING			ODR		034476	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
2	5	736.0	735.9	8.50	H & P, 606	
Operations Summary						
Operations Summary						
N/U BOP's, wait on back up test unit, Test BOP's, rig service and M/U Intermediate directional BHA						
Remarks						
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 2.4 Days From Spud, 5 Total Days On Well, 5 Total Days On Location						
Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February						
Completion percentage: Surface - 100%, Intermediate -0%, Curve - 0%, Lateral - 0%						

Time Log Summary		
Operation	Com	Dur (hr)
SAFETY	Held EJSA on NU BOP w/ Big 6 and H&P crew.	0.5
NU_TEST	NU BOP. Make up red iron, flex hose, kill line. Set bell nipple. Attach turn buckles and center BOP. Connect fill hose, 2" bleeder hose and drain hoses. Make up flow line. Take out check valve. Install cellar covers.	8
SAFETY	Hold PJSM with rig crew and Big 6 Torque & Test. Discuss dangers of lines under pressure, good communication and staying focused on the task.	0.5
U_SCEQ	Start to pressure up on first test and test pump would not attain test pressure. Troubleshoot pump and discover test pump valve and seat washed. Call for a back up test pump @ 1530 hrs. Note: Mix and prepare fresh gel mud in frac tanks, screen up shakers, install drill pipe elevators on topdrive and perform accumulator draw down test while waiting on back up pump to arrive on location. Hold PJSM with new crew before starting BOP test. Note: Back up pump arrived @ 1830 hrs.	4
NU_TEST	Test all manual and hydraulic choke valves to 5000 psi high, 250 psi low. Test BOP upper and lower pipe rams and blinds to 5,000 psi high, 250 psi low and Hydrill to 3500 psi high, 250 psi low. Test mud delivery lines back to pumps to 4500 psi high, 250 low. All tested good. Note: Closed annular 1 time while testing BOP's and 1 time while performing accumulator test.	5.5
RIG_SVC	Service rig and Top drive.	1
WEARBUS HING	EJSA and confined space permit. Install wearbushing and tighten locking pins. Check and verify all packing nuts are tight. Witnessed by PNR Co. Rep.	1
BHA_HAN DLING	EJSA & PJSM - Pick up and make up BHA # 2. Pick up new 12 1/4" Ulterra U716M PDC Bit with 1.50 bend 7:8-4.0 stg, 0.16 rpg fixed mud motor with 11 3/4 stabilizer on nose, Scribe tools, install MWD Test MWD Good test Note: Test MWD before making up bit. Ran 1 generator 100% last 24 hrs.	3.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 6 Daily Operation: 2/11/2015 06:00 - 2/12/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 034476		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
3	6	736.0	735.9	8.50	H & P, 606			

Operations Summary
TIH W/ Dir. Tools, Tag Cmt, Test Casing, Weld Failed On Wellhead, TOH, N/D BOPE, Re-Cut Casing, Install Wellhead, N/U BOPE, Test BOPE & Casing, Install Wear Bushing, TIH

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 3.4 Days From Spud, 6 Total Days On Well, 6 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

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

Time Log Summary

Operation	Com	Dur (hr)
BHA_HAN DLING	EJSA & PJSM - Finish Picking up and make up BHA # 2. Pick up new 12 1/4" Ulterra U716M PDC Bit with 1.50 bend 7:8-4.0 stg, 0.16 rpg fixed mud motor with 11 3/4 stabilizer on nose, Scribe tools, install MWD Test MWD Good test Note: Test MWD before making up bit. 1 Generator on line.	0.5
SAFETY	PJSM on P/Up Drill Collars and TIH.	0.5
BHA_HAN DLING	TIH w/ 9-8" DC's, jars (from wrangler), 3-8" DCs,2-stands HWDP Near miss while TIH, H&P floor hand set slips early while driller was coming down setting bridge protector on drawworks, back lashed 3 wraps on drum. No equipment damages. Place incident in portal. Tag Float Collar @ 692'	1.5
TST_DO_FI T	Fill DP & BHA, Close Annular Preventer and Test 13 3/8" Casing to 702 psi, lost pressure instantly. Check in cellar, found weld well head to surface pipe leaking. Notify superintendent, Seaboard supervisor & Chris Burns Welding Supervisor about well head leaking.	3.5
U_SCEQ	EJSA TOO H w/9-8" DC's, jars (from wrangler), 3-8" DCs,2-stands HWDP stand back directional tool.	2.5
U_SCEQ	PJSM w/all on location on the dangers on N/D BOP use extra cautions.	0.5
U_SCEQ	Check gas contents in cellar - all good. N/D BOP,connect BOP to handler, remove flowline, bell nipple, kill line then remove shakles. Remove BOP from well head & place to side. Remove 13" 5M X 20 1/2" spacer spool. ***Safe Work Permit, Confined Space Entry on file***	1.5
U_SCEQ	Run hyd. winch line below floor to remove well head, Picked up well head 4" untill base plate stopped on weld. Welder rough cut surface casing removing well head, final cut was made losing 6". ***Safe Work Permit, Hot Work Permit on file***	1.5
U_SCEQ	Final cut on 13-3/8" casing 58" below ground level top of well head @ 26" below GL (measurement confirmed by PNR representative, welder, and Seaboard representative). Preheat & Weld wellhead on casing. Let cool for 30 min then test well head to 570 PSI for 5 min - Good test. ***Safe Work Permit, Hot Work Permit on file***	4
U_SCEQ	EJSA with rig crew and Battle Nipple Up Crew, Install 13" 5M X 20 1/2" spacer spool and DSA on wellhead and N/U BOP. Install flex hose, kill line. Set bell nipple. Attach turn buckles and center BOP. Connect fill hose, 2" bleeder hose and drain hoses. Make up flow line. Remove check valve from kill line. *** Safe Work Permit, Confined Space Entry on file***	2.5
U_SCEQ	EJSA W/Battle Energy Services BOP Tester & Rig Crew on BOP Testing, Test Blind Rams, BOP Shell, Kill Line & Choke Line 250 psi/Low 5 minutes, 5,000 psi/High 5 minutes, Good Test. Test casing to 1,000 psi/30 minutes, Good Test.	3
U_SCEQ	EJSA on install wear bushing. Install long wearbushing and tighten locking pins. Check and verify all packing nuts are tight. Witnessed by PNR Co. Rep. Install check valve in kill line, perform accumulator test, Good Test ***Safe Work Permit, Confined Space Permit on file.***	1
U_SCEQ	EJSA W/Dir. Driller & Rig Crew, P/U UBHO Sub, Orient, Scribe & Install MWD. Surface test MWD & Motor 99 spm, 380 gpm, 400 psi W/60 psi pulses, Good Test, M/U Bit, TIH W/BHA, P/U Jars Ran on 1 generator 100% of previous 24 hours.	1.5

Report #: 7 Daily Operation: 2/12/2015 06:00 - 2/13/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
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Days From Spud (days) 4	Days on Location (days) 7	End Depth (ftKB) 3,587.0	End Depth (TVD) (ftKB) 3,579.8	Dens Last Mud (lb/gal) 9.10	Rig H & P, 606
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Operations Summary
TIH, Drill Cement & Float Equip, Drill 12 1/4" Intermediate Section F/736' - 3,587'

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 4.4 Days From Spud, 7 Total Days On Well, 7 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

Completion percentage: Surface - 100%, Intermediate -40%, Curve - 0%, Lateral - 0%

Time Log Summary

Operation	Com	Dur (hr)
U_SCEQ	EJSA W/Dir. Driller & Rig Crew, Continue P/U UBHO Sub, Orient, Scribe & Install MWD. Surface test MWD & Motor 99 spm, 380 gpm, 400 psi W/60 psi pulses, Good Test, M/U Bit, TIH W/BHA, P/U Jars Put Second Generator on line @ 06:00	0.5
TST_DO_FIT	Drlg Cement & Float Equip. F/692' - 736', 130 spm, 497 gpm, 30 Top Drive rpm, 79 motor rpm, 109 total bit rpm, 1,150 psi. Full returns to surface. Float Collar @ 692' Shoe @ 737'	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 216' @ 216'/Hr, 180 spm, 690 gpm, 2,107 psi, 400 psi diff, 75 Top Drive rpm, 117 motor rpm, 192 total bit rpm, 30 - 35k wob, 10 k ft/lbs tq, Avg MSE 4, Full returns.	1
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section,10' @ 20'/Hr, 180 spm, 690 gpm, 1850 psi, 150 psi diff., 117 motor rpm, 15-25k wob, 0 MTF, Full returns to surface.	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 270' @ 180'/Hr, 180 spm, 690 gpm, 2,200 psi, Avg MSE 4, Full returns. Surveys: 801.00 0.79 263.70 892.00 0.97 259.32 983.00 1.23 303.44 1076.00 0.88 313.29 1172.00 0.44 310.47	1.5
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section,12' @ 24'/Hr, 180 spm, 690 gpm, 2100 psi, 300 MTF, Full returns to surface.	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 82' @ 328'/Hr, Avg MSE 4, Full returns.	0.25
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section,15' @ 60'/Hr, 305 MTF, Full returns to surface.	0.25
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 79' @ 316'/Hr, Avg MSE 2, Full returns.	0.25
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section,15' @ 60'/Hr, 310 MTF, Full returns to surface.	0.25
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 79' @ 316'/Hr, Avg MSE 2, Full returns.	0.25
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section,12' @ 48'/Hr, 310 MTF, Full returns to surface.	0.25
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 501' @ 167'/Hr, Avg MSE 2, Full returns. Surveys: 1266.00 0.97 292.54 1360.00 1.93 303.09 1455.00 3.43 302.04 1549.00 4.84 304.67 1643.00 4.92 304.67 1737.00 4.66 310.12 1832.00 5.01 310.82 1926.00 4.92 310.82 2020.00 4.75 309.59	3
U_RIG_OTR	Replace cap gaskets, suction & discharge, both pumps while circulating W/80 spm, 306 gpm, 460 psi, rotating & reciprocating. @ 40 rpm	1
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 241' @ 137'/Hr, 208 spm, 796 gpm, 3,000 psi, 600 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 38 - 40k wob, 15 k ft/lbs tq, Avg MSE 10, Full returns.	1.75
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section, 17' @ 68'/Hr, 208 spm, 796 gpm, 2,800 psi, 400 psi diff., 135 motor rpm, 12-18k wob, 285 MTF, Full returns.	0.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 113' @ 113'/Hr, Avg MSE 18, Full returns.	1
DRL_SLID E	Slide Drill 12-1/4" Intermediate Section, 18' @ 72'/Hr, 280 MTF, Full returns to surface.	0.25
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 233' @ 155'/Hr, Avg MSE 6, Full returns. Surveys: 2114.00 4.57 312.58 2208.00 3.78 314.78 2303.00 3.87 314.16 2397.00 4.40 313.29 2491.00 4.84 310.82 2586.00 4.57 312.05 3rd Generator on line @ 20:30	1.5
DRL_SLID E	Slide Drill 12-1/4" Intermediate Section, 14' @ 56'/Hr, 270 MTF, Full returns to surface.	0.25
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 258' @ 172'/Hr, Avg MSE 12, Full returns.	1.5
RIG_SVC	Service Rig & TDS	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 35' @ 140'/Hr, 208 spm, 796 gpm, 3,150 psi, 650 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 25 - 35k wob, 17 k ft/lbs tq, Avg MSE 12, Full returns.	0.25
DRL_SLID E	Slide Drill 12-1/4" Intermediate Section, 16' @ 32'/Hr, 208 spm, 796 gpm, 2,800 psi, 400 psi diff., 135 motor rpm, 15 - 25k wob, 270 MTF, Full returns.	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 159' @ 127'/Hr, Avg MSE 11, Full returns. Surveys: 2680.00 4.75 305.55 2774.00 4.66 303.97 2868.00 4.31 304.50 2962.00 4.22 303.27 3057.00 4.40 298.52	1.25
DRL_SLID E	Slide Drill 12-1/4" Intermediate Section, 19' @ 76'/Hr, 290 MTF, Full returns to surface.	0.25
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 255' @ 102'/Hr, Avg MSE 15, Full returns. Surveys: 3151.00 4.57 302.91 3245.00 4.66 301.68 3339.00 4.04 302.56	2.5
DRL_SLID E	Slide Drill 12-1/4" Intermediate Section, 23' @ 46'/Hr, 290 MTF, Full returns to surface.	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 72' @ 96'/Hr, Avg MSE 15, Full returns.	0.75
DRL_SLID E	Slide Drill 12-1/4" Intermediate Section, 20' @ 40'/Hr, 290 MTF, Full returns to surface.	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 60' @ 120'/Hr, 208 spm, 796 gpm, 3,250 psi, 700 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 25 - 35k wob, 17 k ft/lbs tq, Avg MSE 14, Full returns. Surveys: 3343.00 4.66 302.21 Slid 181' for 6% of total footage & 19% of total time previous 24 hours. Line Proximity: PTB @ 3,587' Inc. 4.66°, Azi. 302.21° 9.5' Ahead and 9' Right of Plan 2 Line MWD Tool Temperature = 80° Ran on 2 generators 60% of previous 24 hours, on 3 generators for the remainder.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 8 Daily Operation: 2/13/2015 06:00 - 2/14/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
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Days From Spud (days) 5	Days on Location (days) 8	End Depth (ftKB) 5,660.0	End Depth (TVD) (ftKB) 5,650.7	Dens Last Mud (lb/gal) 8.85	Rig H & P, 606
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Operations Summary
Drill 12 1/4" Intermediate Section F/3,587' - 5,660'

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 5.4 Days From Spud, 8 Total Days On Well, 8 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

Completion percentage: Surface - 100%, Intermediate -69%, Curve - 0%, Lateral - 0%

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 942' @ 118'/Hr, 207 spm, 793 gpm, 3,400 psi, 650 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 30 - 42k wob, 14 - 17k ft/lbs tq, Avg MSE 20, Full returns. Surveys: 3433.004.66 302.21 3527.006.16 297.99 3622.006.16 300.10 3716.005.28 299.05 3810.004.84 301.33 3904.004.31 297.99 3999.003.96 304.50 4093.003.08 307.13 4187.002.29 305.02 4281.002.02 297.11 4375.001.67 301.68 4470.001.23 306.43 3 generators on line	8
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 197' @ 99'/Hr, 160 spm, 652 gpm, 2,350 psi, 500 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 26k wob, 14k ft/lbs tq, Avg MSE 14, Full returns. Displacing brine mud system to pre-hydrated Gel System 8.4 MW 45 vis while drilling. Displacement complete @ 4,726' W/9,900 strokes. Calculated Total Volume = 6,955 Strokes Excess Strokes = 2,945 Strokes Calculated Open Hole Annulus = 5,099 Strokes Calculated 60% Washout of open hole annulus section.	2
U_RIG_OTR	LO/TO/TO #1 Pump, Change out swab on #1 pump, #2 pod, while circulating, reciprocating & rotating W/399 gpm, 70 rpm	0.75
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 33' @ 132'/Hr, 207 spm, 793 gpm, 3,400 psi, 650 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 35k wob, 14 - 17k ft/lbs tq, Avg MSE 24, Full returns.	0.25
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section, 13' @ 26'/Hr, 207 spm, 793 gpm, 2,900 psi, 250 psi diff., 135 motor rpm, 15 - 25k wob, 130 MTF, Full returns.	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 125' @ 83'/Hr, 207 spm, 793 gpm, 3,400 psi, 650 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 30 - 42k wob, 14 - 17k ft/lbs tq, Avg MSE 22, Full returns. Surveys: 4564.001.23 290.61 4658.001.06 300.98 4753.000.79 295.88 4847.000.44 147.70	1.5
RIG_SVC	Service Rig & TDS	0.5
U_RIG_OTR	LO/TO/TO #1 Pump, Change out swab, discharge seat & valve & cap gasket on #1 pump, #1 pod, while circulating, reciprocating & rotating W/361 gpm, 40 rpm	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 235' @ 78'/Hr, 207 spm, 793 gpm, 3,400 psi, 650 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 35k wob, 14 - 17k ft/lbs tq, Avg MSE 27, Full returns. Surveys: 4941.000.44 168.09 5035.000.09 178.29 5129.000.18 123.09 Note: Schlumberger on location, cemented cellar up to baseplate on wellhead.	3
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 236' @ 79'/Hr, 207 spm, 793 gpm, 3,450 psi, 700 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 35 - 40k wob, 14 - 17k ft/lbs tq, Avg MSE 22, Full returns. Surveys: 5224.000.26 173.54 5318.000.35 96.90	3
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 284' @ 94'/Hr, 207 spm, 793 gpm, 3,500 psi, 700 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 35 - 40k wob, 14 - 17k ft/lbs tq, Avg MSE 22, Full returns. Surveys: 5412.00 0.26 131.18 5506.00 0.18 122.91 Slid 13' for .6% of total footage & 2% of total drilling time previous 24 hours. Line Proximity: PTB @ 5,660' Inc. 0.18°, Azi. 122.91° 5.5' Ahead and 6.29' Left of Plan 2 Line MWD Tool Temperature = 110° Ran on 3 generators for 100% of previous 24 hours.	3

Report #: 9 Daily Operation: 2/14/2015 06:00 - 2/15/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 034476	
Days From Spud (days) 6	Days on Location (days) 9	End Depth (ftKB) 6,479.0	End Depth (TVD) (ftKB) 6,469.6	Dens Last Mud (lb/gal) 8.80	Rig H & P, 606
Operations Summary Drill 12 1/4" Intermediate Section F/5,660' - 6,479', Motor Pressured Up, Well Flowing, Spot Mud Cap, TOH F/Motor, Work Thru Tight Hole 4,535' - 4,475', TOH F/Motor					
Remarks Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 6.4 Days From Spud, 9 Total Days On Well, 9 Total Days On Location Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February Completion percentage: Surface - 100%, Intermediate -80%, Curve - 0%, Lateral - 0%					

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 106' @ 53'/Hr, 207 spm, 793 gpm, 3,500 psi, 700 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 35 - 40k wob, 14 - 17k ft/lbs tq, Avg MSE 22, Full returns. Surveys: 5601.000.44 35.02 5695.000.62 70.00 3 generators on line.	2
DRL_SLID E	Slide Drill 12-1/4" Intermediate Section, 14' @ 28'/Hr, 207 spm, 793 gpm, 2,900 psi, 250 psi diff., 135 motor rpm, 15 - 25k wob, 200 MTF, Full returns.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 12-1/4" Intermediate Section 205' @ 103'/Hr, 207 spm, 793 gpm, 3,500 psi, 700 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 35 - 40k wob, 14 - 17k ft/lbs tq, Avg MSE 22, Full returns.</p> <p>Surveys:</p> <p>5789.000.44 138.91 5883.001.06 123.97</p>	2
U_RIG_OT R	LO/TO/TO #1 Pump, Change out 2-swabs, discharge seat & valve & cap gasket on #1 pump, #1 & #2 pod, while circulating, reciprocating & rotating W/304 gpm, 40 rpm	2.5
DRL_ROT	<p>Rotate Drill 12-1/4" Intermediate Section 195' @ 78'/Hr, 207 spm, 793 gpm, 3,500 psi, 500 - 800 psi diff, 60 Top Drive rpm, 135 motor rpm, 195 total bit rpm, 38 - 40k wob, 16 - 19k ft/lbs tq, Avg MSE 25, Full returns.</p> <p>Surveys:</p> <p>5987.001.06 126.61 6072.000.79 108.15 6166.000.70 110.96</p>	2.5
DRL_ROT	<p>Rotate Drill 12-1/4" Intermediate Section 235' @ 94'/Hr, 207 spm, 793 gpm, 3,500 psi, 650 - 900 psi diff, 70 Top Drive rpm, 135 motor rpm, 205 total bit rpm, 33 - 36k wob, 15 - 20k ft/lbs tq, Avg MSE 25, Full returns.</p> <p>Surveys:</p> <p>6260.001.06 92.50 6355.001.67 68.60</p>	2.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 52' @ 104'/Hr, 207 spm, 793 gpm, 3,500 psi, 550 - 850 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 20 - 22k wob, 8 - 20k ft/lbs tq, Avg MSE 23, Full returns.	0.5
DRL_SLID E	Slide Drill 12-1/4" Intermediate Section, 32' @ 16'/Hr, 207 spm, 793 gpm, 2,800 psi, 150 - 350 psi diff., 135 motor rpm, 10 - 17k wob, 240 MTF, Full returns.	2
U_MTR	After Slide, Picked Up, Mud Motor Pressured Up To 3,700 psi Off Btm, Previous Off Btm psi @ 207 spm, 793 gpm, 2,800 psi, Now @ 160 spm, 613 gpm, 3,100 psi. L/D Single, Check DP Screen, (No Debris In Screen). Checked all surface equipment. Pulled 1 Stand to Insure Hole Was Not Packing Off, Pipe Traveling Free, Pumped On String, Pressure 3,200 psi Off Btm, 160 spm, 613, gpm.	0.5
U_MTR	<p>Contacted Supt. & Discussed, Decision To TOO H F/Motor, Line Up Well to Trip Tank, Check F/Flow, Well Flowing Approx. 4 bbl/hr., Mud Wt. 8.8 ppg.</p> <p>Conducted Safety huddle W/Rig Crew on H2S awareness.</p> <p>Note: Wind S @ approx. 10 mph.</p>	0.5
U_WC	Contacted Supt. & Discussed, Decision to spot 100 psi mud cap above San Andres, (4,100') Shut well in & monitor SICP while building 60 bbl, 13.5 ppg pill, SICP incr. to and stabilized @ 70 psi. from time of shut in.	2
U_WC	Pump & Spot 60 bbl 13.5 ppg pill F/4,100' - 3,688', Line up well on trip tank & check F/flow, Well static.	1.5
U_MTR	<p>POOH F/6,288' - 4,535' F/Motor on trip tank, well taking proper fill, Pulled tight @ 4,535'.</p> <p>Running on 2 generators F/02:00</p>	1
U_TH	Work tight spot @ 4,535', unable to pull through W/75k over normal drag of 225k, screwed in W/TDS & backream W/Tq. set @ 16k, 30 - 40 rpm, worked out from 4,535' - 4,475'	1.75
U_MTR	<p>POOH F/4,475' - 1,136' F/Motor on trip tank, well taking proper displacment. Perform Flow Check @ HWDP, Well Static</p> <p>Slid 46' for 5% of total footage & 21% of total drilling time previous 24 hours.</p> <p>Line Proximity: PTB @ 6,479' Inc. 0.68°, Azi. 75.6°</p> <p>13' Ahead and 4.5' Right of Plan 2 Line</p> <p>MWD Tool Temperature = 102°</p> <p>Ran on 3 generators for 83% of previous 24 hours and remainder on 2 generators.</p>	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 10 Daily Operation: 2/15/2015 06:00 - 2/16/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
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Days From Spud (days) 7	Days on Location (days) 10	End Depth (ftKB) 7,150.0	End Depth (TVD) (ftKB) 7,140.6	Dens Last Mud (lb/gal) 8.90	Rig H & P, 606
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Operations Summary
TOH F/Motor, C/O BHA, TIH, Drlg 12 1/4" Intermediate Section 6,479' - 7,150'

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 7.4 Days From Spud, 10 Total Days On Well, 10 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

Completion percentage: Surface - 100%, Intermediate -89%, Curve - 0%, Lateral - 0%

Time Log Summary

Operation	Com	Dur (hr)
U_MTR	EJSA, TOO H W/BHA on trip tank, no excess drag & hole taking proper displacement. Racking back DC, DP & HWDP in derrick L/D jars. Hole taking proper fluid & no drag 2 generators on line	1.5
U_MTR	EJSA, L/D X.O. Sub, Jars & Dir Assy. (1 - X.O Sub, 2 - 8" NMDC's, UBHO Sub, Stabilizer, Drain Motor & Bit (found rubber & metal in bit nozzle area) Lay down pulsar sub, NMDC, Stabilizer and Mtr. Check internal equipment for broke 1 1/2" x 1/2" piece on metal in bit (all OK) Bit Graded: 1/2/CT/S/X/0/NO/DMF 1 generator on line @ 07:30	2
U_MTR	EJSA, Remove & Inspect wear bushing (OK). Wash out well head. Turn wear bushing 1/2 & place back in well head set orange lock pins. Function test BOP Witnessed by PNR Rep. 2 Generators on line @ 09:30	0.5
U_MTR	EJSA, P/U 8" down hole motor 7/8 lobe 7.37 bit to bend, 1.5° bend with 11 3/4" Stabilizer (.17 rev/gal). P/U 11" Stabilizer, UBHO (orient UBHO). P/U NMDC and install MWD. Shallow test directional tools 100 spm, 383 gpm, 255 spp (good test). P/U 12 1/4" U716M PDC bit (0.773 TFA). P/U top NMDC & X.O Sub.	2.5
U_MTR	EJSA, TIH w/ 3 stands of 8" DC's, pick up jars from wrangler, 1 stand of 8" DC & 7-stands HWDP,	1.5
U_MTR	EJSA on TIH, TIH F/639' to 6,413', filling pipe every 30 stands, hole displacing properly to trip tanks, w/22 - 25% flow on each stand.	3
U_RIG_OTR	LO/TO/TO #1 Pump, Change out swab & liner #2 pod, found bad stud in liner retainer, replace while circulating, reciprocating & rotating W/304 gpm, 40 rpm (Wash F/6,413' - 6,479'). 3 generators on line @ 17:00	3
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 132' @ 88'/Hr, 207 spm, 793 gpm, 3,450 psi, 650 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 28 - 32k wob, 10 - 17k ft/lbs tq, Avg MSE 22, Full returns.	1.5
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section, 10' @ 20'/Hr, 207 spm, 793 gpm, 3,000 psi, 350 psi diff., 135 motor rpm, 22k wob, 238 MTF, Full returns.	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 181' @ 80'/Hr, 207 spm, 793 gpm, 3,300 psi, 700 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 28 - 30k wob, 11 - 18k ft/lbs tq, Avg MSE 26, Full returns. Surveys: 6447.00 1.49 79.32 6542.00 0.97 105.34 6636.00 0.53 141.72 6730.00 0.53 126.43	2.25
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section, 12' @ 24'/Hr, 207 spm, 793 gpm, 3,000 psi, 350 psi diff., 135 motor rpm, 18 - 24k wob, 250 MTF, Full returns.	0.5
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 80' @ 80'/Hr, 207 spm, 793 gpm, 3,350 psi, 750 psi diff, 75 Top Drive rpm, 135 motor rpm, 210 total bit rpm, 25 - 30k wob, 11 - 17k ft/lbs tq, Avg MSE 24, Full returns. Survey: 6825.00 0.44 61.39	1
DRL_SLIDE	Slide Drill 12-1/4" Intermediate Section, 16' @ 21'/Hr, 207 spm, 793 gpm, 3,000 psi, 350 psi diff., 135 motor rpm, 18 - 24k wob, 265 MTF, Full returns.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)						
DRL_ROT	<p>Rotate Drill 12-1/4" Intermediate Section 69' @ 92'/Hr, 170 spm, 650 gpm, 2,600 psi, 600 psi diff, 75 Top Drive rpm, 110 motor rpm, 185 total bit rpm, 32k wob, 14 - 17k ft/lbs tq, Avg MSE 24, Full returns.</p> <p>@ 6,900' Mud started seeping during slide, lost 15 bbl by 6,910', reduced flow rate to 650 gpm, pump 20 bbl LCM sweep 12 tiger bullets, 3 cedar fiber, 3 mics & 3 pecan hulls, continue drilling pumping LCM sweeps as needed.</p> <p>MW/Vis in/out 8.9+/47</p>	0.75						
RIG_SVC	Service Rig & TDS	0.5						
DRL_ROT	<p>Rotate Drill 12-1/4" Intermediate Section 171' @ 68.4'/Hr, 170 spm, 650 gpm, 2,600 psi, 600 psi diff, 75 Top Drive rpm, 110 motor rpm, 185 total bit rpm, 32k wob, 14 - 17k ft/lbs tq, Avg MSE 24, Full returns.</p> <p>Surveys:</p> <table border="0"> <tr> <td>6825.000.44</td> <td>61.39</td> </tr> <tr> <td>6919.000.26</td> <td>194.81</td> </tr> <tr> <td>7013.000.44</td> <td>187.95</td> </tr> </table> <p>Slid 38' for 6% of total footage & 16% of total drilling time previous 24 hours.</p> <p>Line Proximity: PTB @ 7,150' Inc. 0.44°, Azi. 187.95°</p> <p>6.3' Ahead and 14.5' Right of Plan 2 Line</p> <p>MWD Tool Temperature = 117°</p> <p>Ran on 1 generator for 8%, 2 generators for 37% & 3 generators for remainder of previous 24 hours.</p>	6825.000.44	61.39	6919.000.26	194.81	7013.000.44	187.95	2.5
6825.000.44	61.39							
6919.000.26	194.81							
7013.000.44	187.95							

Report #: 11 Daily Operation: 2/16/2015 06:00 - 2/17/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 034476	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
8	11	7,915.0	7,905.5	9.20	H & P, 606	
Operations Summary Drill 12 1/4" Intermediate Section F/7,150' - 7,915', Circ. Sweeps F/Casing, POOH SLM, L/D 8" DC's, Jars & Dir. Tools						
Remarks Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 8.4 Days From Spud, 11 Total Days On Well, 11 Total Days On Location						
Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February						
Completion percentage: Surface - 100%, Intermediate -100%, Curve - 0%, Lateral - 0%						

Time Log Summary

Operation	Com	Dur (hr)										
DRL_ROT	<p>Rotate Drill 12-1/4" Intermediate Section 490' @ 54'/Hr, 170 spm, 650 gpm, 2,700 psi, 550 psi diff, 75 Top Drive rpm, 110 motor rpm, 185 total bit rpm, 32k wob, 14 - 17k ft/lbs tq, Avg MSE 42, Full returns.</p> <p>Surveys:</p> <table border="0"> <tr> <td>7108.000.35</td> <td>163.34</td> </tr> <tr> <td>7202.000.62</td> <td>165.28</td> </tr> <tr> <td>7296.000.44</td> <td>136.27</td> </tr> <tr> <td>7390.000.44</td> <td>125.02</td> </tr> <tr> <td>7485.000.44</td> <td>127.66</td> </tr> </table> <p>3 generators on line.</p>	7108.000.35	163.34	7202.000.62	165.28	7296.000.44	136.27	7390.000.44	125.02	7485.000.44	127.66	9
7108.000.35	163.34											
7202.000.62	165.28											
7296.000.44	136.27											
7390.000.44	125.02											
7485.000.44	127.66											

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary						
Operation	Com					Dur (hr)
DRL_ROT	Rotate Drill 12-1/4" Intermediate Section 275' @ 61'/Hr, 170 spm, 650 gpm, 2,950 psi, 700 psi diff, 75 Top Drive rpm, 110 motor rpm, 185 total bit rpm, 32k wob, 14 - 17k ft/lbs tq, Avg MSE 32, Full returns. Raising MW to 9.1-9.2 adding 10 bags of LCM to active system every hour, 7 tiger bullets, 1 pecan seal, 1 cedar fiber & 1 mica Lost a total of 51 bbl seeping through out while drilling, never lost total returns. Pump 20 bbl sweeps of 60 vis every 3 connections w/10-12 ppb LCM of 25 tiger bullets, 6 cedar fiber, 6 pecan seal & 6 mica Drillpipe count correct, corrected hole depth/bit depth on Totco on last break @ 7,891.26', prior to TD. Surveys: 7579.000.44 84.59 7674.000.62 80.55 7768.000.53 79.50 7855.000.44 56.47 TD Intermediate Hole at 19:30 hrs on 2/16/2015, 7,915' MD, 7,905.61' TVD. Line Proximity: PTB @ 7,915' Inc. 0.44°, Azi. 56.47° 2.9' North of & 20.7' East of Plan 2 Line MWD Tool Temperature = 124°					4.5
CIRC	Circ. 2 X 40 bbl sweeps 50 min apart of 80 vis 9.2 wt, Pumped till Shakers cleaned up, Rotating & reciprocating @ 30 rpm, 170 spm, 650 gpm, 2,350 psi, Full returns. Note: 1 sweep around with minimal cuttings, 2nd sweep very few cuttings. Circulated until shakers were clean. (3 X B/U) MW In/Out 9.2 Vis. 43, YP 9, Calculations show 23% washout. (Surface to surface stks - 11,831, sweep around @ 14,500 stk) Perform Flow Check 10 min., well static, pump slug.					3
TOOH	JSA W/Rig Crew & PNR Rep. on TOOH, TOOH (SLM) to Run 9 5/8" Intermediate Casing, F/7,915' - 497' on trip tank, hole taking proper displacement. Tight spot @ 7,465' - 7460', pulled through w/90k over normal P/U wt. of 280k, worked back through spot 2 times, no abnormal drag. Perform 10 min. flow check @ 1,136', well static. SLM 3.04' long to driller's tally. On 2 generators @ 23:00					4.5
BHA_HAN DLING	EJSA On BHA Handling, L/D 12 - 8" DC's, Jars, X.O. Sub, 2 - 8" NMDC & Dir. Tools. Ran on 3 generators for 71% of previous 24 hours, remainder on 2 generators.					3
Report #: 12 Daily Operation: 2/17/2015 06:00 - 2/18/2015 06:00						
Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 034476	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
9	12	7,915.0	7,905.5	9.20	H & P, 606	
Operations Summary L/D Dir. Tools, Pull Wear Bushing, R/U CRT, Run 9 5/8" Intermediate Casing, Land Casing, Circulate Casing						
Remarks Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 9.4 Days From Spud, 12 Total Days On Well, 12 Total Days On Location Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February Completion percentage: Surface - 100%, Intermediate - 100%, Curve - 0%, Lateral - 0%						
Time Log Summary						
Operation	Com					Dur (hr)
U_MTR	Bad threads between both NMDC. Had to unscrew with manual tongs.					2
BHA_HAN DLING	EJSA On finishing BHA Handling, L/D down hole motor, 12 1/4" bit, 11" IBS & float sub. Bit Graded: 0/1/WT/S/X/0/BT/TD Note: Phase change: found out that we will not be drilling the production on next phase. Were going to skid over and drill the surface & Intermediate on the University 3-19 # 38H. Will be getting extra hands to help roll pipe while 2 H&P hands will be preparing to get everything ready on skid rams.					1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
WEARBUS HING	EJSA on pulling wear bushing. Pump out cellar. Verify wear bushing lockdown pins are backed out. Pull long wear bushing. No overpull. P/U wash sub and wash well head. Verify hole is full and close blind rams. Lay down wear bushing. Clean and clear rig floor for casing equipment. ***Safe Work Permit - Confined Space Entry Permit*** Perform BOP Function Test.	1
RIG_SVC	Service top drive	0.5
CASE	EJSA with H&P rig crew, H&P CRT crew & PNR representative over rigging up CRT & Casing tools. P/U & R/U H&P CRT & Casing equipment.	1.5
CASE	EJSA M/U float shoe onto 2 joint shoe track of 9 5/8" 43.5 lb/ft L80 IC BTC Casing. Verified Zero SICP, Open Blind Rams. M/U float collar. M/U 1 joint of casing on top of float collar w/2- solid body centralizers. Thread lock all threads from top of top of float collar down to shoe. Fill up and test floats (Good). Hand caliper the ID of 10 jts of 43.5 lb/ft casing - 8.7906". 10 jts of 40 lb/ft casing - 8.8531". ID of single latch elevators - 9 13/16", OD of casing collars - 10 11/16".	1
CASE	Run 9 5/8" L-80 BT&C Casing w/H&P CRT tool, torquing each joint to 9,000 ft/lbs (Avg. of 10 jts. made up to base of triangle) @ 45 ft/min F/143' - 2,249' (48 jts. 43.5#), Hole displacing proper amount, W/24 - 26% flow out on each joint ran, breaking circulation every 40 joints.	4
CASE	C/O Dies on CRT spear to Run 9-5/8" 40.0 lb/ft L80 IC BTC	0.75
CASE	Run 9 5/8" L-80 BT&C Casing w/H&P CRT tool, torquing each joint to 9,000 ft/lbs (Avg. of 10 jts. made up to base of triangle) @ 45 ft/min F/2,249' - 4,075', (41 jts. 40.0#), Hole displacing proper amount, W/24 - 26% flow out on each joint ran, breaking circulation every 40 joints. Contacted TRRC @ 20:00 Hrs. 2/17/2015 for notification of Intermediate Cement Job, Spoke W/Bobbie Notified SLB to be on location @ 04:00 2/18/2015 @ 21:00	3.25
CASE	P/U & M/U TEAM Isolation Jet Sleeve, Placement of sleeve in casing string puts top of sleeve @ 3805.54' MD KB TEAM Isolation Jet Sleeve Info: Max OD 11.76" Min ID 8.75" Tensile 1,000,000 lbf Burst 8,320 psi Collapse 7,740 psi	0.5
CASE	Run 9 5/8" L-80 BT&C Casing w/H&P CRT tool, torquing each joint to 9,000 ft/lbs (Avg. of 10 jts. made up to base of triangle) @ 45 ft/min F/4,126' - 5,494' , (32 jts. 40.0#), Hole displacing proper amount, W/24 - 26% flow out on each joint ran, breaking circulation every 40 joints. Bobby Taylor W/SLB called @ 22:20 2/17/2015, said they would be sending a crew from another job, probably would be 1 - 2 hours late. Contacted Weir/Seaboard to be on location W/hanger & abandonment cap @ 02:30 2/18/2015	1.5
CIRC	Circulate B/U @ 5,494', 88 spm, 337 gpm, 200 psi, F/3,800 strokes, 25% flow out w/full returns to surface, no losses. MW in 9.2+, MW out 9.2, Vis 55	1.25
CASE	Run 9 5/8" L-80 BT&C Casing w/H&P CRT tool, torquing each joint to 9,000 ft/lbs (Avg. of 10 jts. made up to base of triangle) @ 35 ft/min F/5,494' - 7,875', (53 jts. 40.0#), Hole displacing proper amount, W/24 - 26% flow out on each joint ran, breaking circulation every 40 joints.	3.25
SAFETY	EJSA W/Rig Crew, Weir Seaboard Rep, H & P Rig Manager & PNR Co. Man, On P/U Hanger & Landing Joint, Landing Casing & Confined Space Entry, Check Cellar With Sniffer, All OK	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
CASE	P/U & M/U landing joint & hanger, RIH F/7,875' - 7,910'. Hanger landed @ 04:30 hrs., confirmed visually by Seaboard Rep & Pioneer Representative. ***Safe Work Permit, Confined Space Entry*** Ran Solid Body Centralizers on each joint of two joint shoe track. Ran Solid Body Centralizers every 4th joint, above and 1 below Isolation Jet Sleeve and 1 every 4th joint until reaching 3,400' MD. Shoe depth: 7,910' md. Float Collar depth: 7,812' md. Shoe Track length: 97.10' Isolation Sleeve: 3,805' - 3,810' Solid Body Centralizers: 27 Running on 1 generator @ 05:00	1
CIRC	Circulate 1.5 Times Casing Volume (884 bbls) @ 88 spm, 337 gpm, 264 psi F/9,700 strokes, 29% flow out w/full returns to surface, no losses. MW in 9.2, MW out 9.2, Vis 56 Unable to rack back TEAM FO Sleeve shifting tool due to length of tool, verified 4 1/2 IF box on tool. Ran on 2 generators 96% of previous 24 hours, remainder on 1 generator.	1

Report #: 13 Daily Operation: 2/18/2015 06:00 - 2/19/2015 03:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
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Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
10	13	7,915.0	7,905.5	8.34	H & P, 606

Operations Summary
Circulate Casing, Cement Casing, N/D BOPE, Install & Test Abandonment Cap, Prep Rig F/Skid

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 10.4 Days From Spud, 13.875 Total Days On Well, 13 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of February

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

Time Log Summary		
Operation	Com	Dur (hr)
CIRC	Continue Circulate 1.5 Times Casing Volume (884 bbls) @ 88 spm, 337 gpm, 264 psi F/9,700 strokes, 29% flow out w/full returns to surface, no losses. 1 generator on line.	1
CASE	EJSA W/H & P CRT Reps & Rig Crew, rig down H&P CRT	1
CIRC	Circ (wait on SLB) w/ swedge @ 6 bbl/min, 65 spm, 190 psi w/ full returns SLB cement was called @ 21:00 hrs to be on location @ 04:00, on location @ 8:00 am	2
CMT	EJSA On Cementing 9 5/8" Intermediate Casing W/Schlumberger, Rig Crew, Rig Manager & PNR Co. Men	0.5

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 3500 psi</p> <p>10 bbl water 8.32 lb/gal</p> <p>50 bbls 9.4 lb/gal MUDPUSH Express. Mixed with 1.50 lb/bbl BW/V. MUDPUSH Express B389, D206 anti foam 0.1 gal/bbl, 1402.9 lb/mgal Weighting Agent D031.</p> <p>Drop bottom plug</p> <p>608 sk, 244 bbl of Lead Slurry, 11.50 lb/gal D049 cement 75 lb/sk, 2.23 yield. Mixed with 13.064 gal/sk H2O, 0.5% fluid loss D207, 9.0% extender D020, 0.2% Anti foam D046, 0.1% viscosifier D208, 0.8% Retarder D013, and 0.1 % dispersant D065.</p> <p>186 sk, 36 bbl, 16.4 lb/gal Tail Slurry, 1.07 yield. Mixed with 4.358 gal/sk H2O, 94 lb/sk Cement (Class H), 0.2% Anti foam D046, 0.4% Retarder D013, 0.2% Dispersant D065.</p> <p>Drop top plug.</p> <p>Displaced cement with 589 bbls of 8.34 ppg Fresh Water w/ 0.084 gal/bbl Green-Cide 25G B244 at 4 - 6 bpm. Displaced final 53 bbls at 2.3 bpm. Bump plug @ 573 bbls with 1,678 psi 554 psi over final lift pressure of 1,124 psi. Floats held, bled back 4 bbls after 5 minutes.</p> <p>Flow dropped 43 bbl prior to end of displacement to 50% flow stayed 50% till bump plug, no mud push or cement to surface.</p> <p>Note: Lift pressures continued to increase until plug was bumped.</p> <p>Lift pressures: 50 bbl - 6.1 bpm 196 psi, 100 bbl - 4.1 bpm 102 psi, 200 bbl - 6.7 bpm 237 psi, 300 bbl - 6.6 bpm 348 psi, 400 bbl - 6.6 bpm 775 psi, 450 bbl - 4.7 bpm 820 psi, 500 bbl - 3.4 bpm 936 psi, 520 bbl- 3.4 bpm 1,003 psi (lost 50% flow), 540 bbl- 2.3 bpm 1,054 psi, 550 bbl- 2.3 bpm 1,088 psi, 560 bbl- 2.3 bpm 1,124 psi, 573 bbl bump plug W/1,678 psi.</p> <p>Note: Plug bumped 16 bbl early, cementer overfilling tubs, (filling high, pumping dry) ~.25 bbl/tub X 57 tubs</p> <p>*** - SLB supervisor taking & weighing slurry samples every 100 bbls (3 taken on Lead & 1 taken on Tail)</p> <p>@ Report time, lead samples are are still soft, tail sample is set up</p> <p>Note: Loading of bottom & top plug verified by both company men, rig manager & Schlumberger supervisor.</p>	4
CMT	EJSA on rigging down cementers & R/D Cementers	1
WLHEAD	Flush and clean cement lines, R/D cementers, wash thru BOP & choke.	1.5
WLHEAD	<p>EJSA W/Seaboard & Pull Landing Joint, Confined Space Entry Permit Req'd, Check Cellar With Sniffer, All OK, Set Packoff, Test Packoff to 5,000 psi for 5 minutes, L/D Landing Joint.</p> <p>***Safe Work Permit - Confined Space Entry***</p>	1.5
NU_TEST	<p>EJSA W/Battle Energy Services, Rig Crew & PNR Co. Man On N/D BOPE. Hang Off Flowline, N/D Bell Nipple, Choke & Kill Lines, Secure BOP Stack W/ BOP Wrangler, Remove Turnbuckles, N/D BOP Stack & Set Back W/BOP Wrangler.</p> <p>***Safe Work Permit - Confined Space Entry***</p>	4.5
NU_TEST	<p>Install Abandonment Cap and Test to 500 psi/15 Min. Test Good, Charted and on file. Install Needle Valve & Gauge.</p> <p>***Safe Work Permit - Confined Space Entry***</p>	1.5
B_SKID	<p>Prep rig for skid. Disconnect flow line, water lines, mud line, air hose connections for rig move. Un pin upper and lower pins from drawworks to mud boat. Remove pins from BOP transport skid to boomer skid. Secure hydraulic hoses, BOP to sub, pipe wrangler. Install skid rails, set skid control stand. Remove ground cables and hand rails on flow line stand. Set second flow line stand and flow line extension. Install extension on electrical umbilical tray. Raise cellar grating and install beams underneath to support while skidding.</p> <p>LO/TO/TO #1 pump, C/O Swab & Liner #3 pod.</p>	2
SAFETY	<p>PJSM W/H & P Rig Crew, Rig Manager & PNR Co. Man over skidding operations.</p> <p>Rig Released to University 3-19 38H @ 03:00 hours 2/19/2015</p> <p>Ran 100% of previous 24 hours on 1 generator.</p>	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 14 Daily Operation: 3/27/2015 18:00 - 3/28/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 034476		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
47	13	7,915.0	7,905.5	12.20	H & P, 606			

Operations Summary
Skid Rig from University 3-19 38H to 37H. NU BOP and Test to 250 psi low/3000 psi high. Test Casing to 2500 psi. RU E&P Wireline and run CBL.

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 10.9 Days From Spud, 14.375 Total Days On Well, 48 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

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

Time Log Summary

Operation	Com	Dur (hr)
B_SKID	Held PJSM on Skidding Rig. Skid Rig to University 3-19 37H and Center Rotary over Well.	1
NU_TEST	RU Standpipe and Miscellaneous Electrical. Checked PSI on Wellhead, gauge showed No (0) PSI. Cracked casing valve and noticed pressure. Removed 10,000 PSI gauge and replaced with 5,000 PSI gauge and still showed no pressure. Bled Pressure off and removed Abandonment cap from Wellhead. Changed out spacer spool on DSA. ***Safe Work Permit - Confined Space Entry***	1
NU_TEST	Held PJSM on NU of BOP. Installed Spacer Spool and DSA onto Wellhead, NU BOP on DSA, installed Coflex Hose, Trip Nipple, Flowline, and Turnbuckles. Centered BOP with Rotary Table, Powered up Accumulator, Fuction Test BOP. Concurrently: Test Choke Manifold to 250 psi low, 3000 psi high (all test good).	4.5
NU_TEST	Held PJSM with Battle Tester and H&P crew on Testing BOP. MU Test Plug and set. Fill Stack and test Blinds to 250 psi low/3000 psi high. Re-install pipe and Pump-in Sub and test Lower, Upper, and Annular to 250 psi low/3000 psi high. Rermove Test Plug and install Pump-in Sub to TDS and test Standpipe back to Mud Pumps to 250 psi low/5000 psi high (all test good).	3
TST_DO_FIT	Test 9 5/8" 40ppf, L-80, IC-BTC casing 2,500 psi for 30 min, Test good. Perform Accumulator Test. Concurrently: Held PJSM with E&P Wire Line Crew, H&P Rig Crew, and PNR rep on RU and Running of CBL. Spot E&P Wire Line truck and prep to RU for CBL.	2
U_CMT	RU Wireline to Run Cement Bond Logs. Ran 1 Generators 12 hours.	0.5

Report #: 15 Daily Operation: 3/28/2015 06:00 - 3/29/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 034476		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
48	14	7,915.0	7,905.5	10.00	H & P, 606			

Operations Summary
RU E&P (SBL) Wire Line and Run CBL and RD. Cut and Slip Drill Line. RU Schlumberger Wire Line and Run Isolation Scanner Logs to confirm Top of Cement. RD Schlumberger Wire Line and Logging Tools.

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 11.9 Days From Spud, 15.375 Total Days On Well, 49 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

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

Time Log Summary

Operation	Com	Dur (hr)
U_CMT	EJSA with H&P rig crew, E&P (SLB) Wireline crew, & PNR CM on rigging up logging equipment. Rig up logging equipment & tools per E&P. 1 Generator on line.	1.5
U_CMT	EJSA on running wireline operations. Run cement bond log per E&P Wireline. Bond log results were emailed to Drgl Eng., Drlg Supt., & John Hannon w/ SLB. Results E&P Wireline CBL log show estimated top of cement @ 6,820'. Decision was made to run ICD/USIT log as per Drlg Eng.	4.5
U_CMT	Remove catch pan & bell nipple, lay down the same.	1
U_CMT	Service rig & top drive	0.5
CUTDL	EJSA over slip & cut drill line. Slip & cut drill line (8 wraps).	1.5
U_CMT	RD E&P Wireline logging equipment	0.5
U_CMT	EJSM on working in the man lift. RU pressure equipment to run logs under pressure if needed. Note: 13 5/8" x 5M Spool with 13 5/8" 5M x 7 1/16" 5M DSA and 7 1/16" 5M logging lubricator flange bolted on top of the annular preventor. Pressure bled off block with 2" low torque valve and 1 section of lubrcator added to reach the rig floor elevation.	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
U_CMT	Spot in and RU Schlumberger Well Integrity wire line logging unit.	0.5
U_CMT	EJSA with H&P, Schlumberger and PNR personnel. RU Wire Line and MU Logging Tool. RIH and Log Free Pipe. POOH and remove metal Debris from Logging Tool. RIH to 7300'. Log from 7300' to 3100'. Emailed Log Data to Drilling Engineer, Drilling Superintendent, John Hannon with SLB, and Kyle Johnson with SLB to be analyzed. Held Conference call with Schlumberger Engineer on location, PNR Rep, and Drilling Engineer. 1st Log confirmed the Top of Tail Cement was at 6820'. Orders were given to make a second Logging run from 3300' to 700' to confirm Top of Lead Cement. OK was given to proceed forward with normal operations after Logs were completed by Drilling Engineer with results of the Top of Lead Cement being above 4,000'. Top of Lead Cement was at 1,220', determined by the change in impedance material behind casing (Changed from 2.4 mryls to 1.8 mryls). 2nd Log Data has been email out. PJSM with Schlumberger, RD Schlumberger Wire Line Equipment and Truck.	11
U_CMT	RD Lubricator and Spools from Annular. Ran 1 Generators 24 hours.	1

Report #: 16 Daily Operation: 3/29/2015 06:00 - 3/30/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
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Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
49	15	8,216.0	8,199.1	9.90	H & P, 606

Operations Summary
 NU Bell Nipple and Flow Line. Installed Wear Bushing. PU Directional BHA (changed out MWD after weak signals) and MU Bit. TIH to the Top of Cement at 7796'. Drilled out Cement, Shoe Track, and 10' of new Formation to 7,925'. Displaced Well with OBM. Performed FIT to 11.5 ppg EMW (Test Good). Rotate and Slide Drilled Curve Section from 7,925' to 8,216'.

Remarks
 Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 12.9 Days From Spud, 16.375 Total Days On Well, 50 Total Days On Location

 Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

 Completion percentage: Surface - 100%, Intermediate -100%, Curve - 22%, Lateral - 0%

Time Log Summary

Operation	Com	Dur (hr)
U_CMT	EJSA on nipping up bell nipple & flow line. PU bell nipple & hammer up; MU flow line to bell nipple; install catch pan. Gather up BHA & place on gull wings. 1 Generator on line.	2.5
WEARBUS HING	EJSA on install wear bushing. Install short wearbushing and tighten locking pins. Check and verify all packing nuts are tight. LD wear bushing setting tool and organize and prepare drill floor to PU directional tools Witnessed by PNR Co. Rep. ***Safe Work Permit, Confined Space Permit on file.***	1
BHA_HAN DLING	EJSA on MU Leam Directional BHA with Rig crew, Directional Drillers, MWD, Rig Mangaer, and PNR Reps. PU Leam BHA, 6.75" XD Motor 7/8, 5.0, 2.0° Fixed 7 1/2 Slick Sleeve (0.29 Rpg); 6.75" Float Sub; 6.75" Mule Shoe Sub; 6.75" NMDC; 6.75" Flex Monel; Surface test MWD; Receiving very weak signals, recycle pump multiple times with no change in signal strength. Tested Motor W/Water, taking returns to dump line to the reserve pit. Gamma Sensor, 41' from the Bit: Directional, 50' from the Bit. 2 Generators on line @ 12:00 hrs.	3
U_MWD	Trouble shoot weak MWD signal strength issues. Change out standpipe pressure transducer. Re-test with no change in pulse quality. Assemble and change out MWD sensor, surface test MWD.	2.5
BHA_HAN DLING	PU & MU 8.5" Security MMD55DM (S/N: 12609213) PDC (0.981 TFA). BHA length - 93.86'.	1
TIH	EJSA on TIH, TIH F/94' to 7,796', Tag @ 7,796', filled pipe at ~3,875', hole displacing to reserve through dump line. MD Totco Flow Out Percentage readings at 22 - 27% on each stand.	3.5

Time Log Summary

Operation	Com	Dur (hr)
TST_DO_FIT	Tag Cement. Drill out Cement, Float equipment from 7,796' to 7,910' and Drill 10' of new hole to 7,925' 5 - 25K WOB, 105 SPM, 360 GPM, 1,250 SPP, 35 RPM, 104 MM-RPM, 139 total RPM Note: Float collar at 7,813' Float shoe at 7,910'	1.5
CIRC	Pump 30 bbl Diesel spacer and Displace WBM with 9.9 ppg OBM. Pumped 90 SPM, 354 GPM, 725 SPP, monitoring fluid transfer at frac tanks, transfer lines, and at Mud Pits. Circulated until MW was constant 9.8 ppg In and Out for FIT. ***Safe Work Permit-Fluid Transfer inPlace***	1.5
TST_DO_FIT	Perform FIT with 9.9 ppg MW, (7,915 TVD) = 658 psi ~ 11.5 EMW. Pressure drop to 645 psi in 5 min Leak-Off Calculated To 11.47 ppg EMW.	0.5
DRL_ROT	Rotate Drill 85' at 56.7 /hr, WOB 30K, 403 GPM, 2000 SPP, 400 DIFF, 50 RPM, 117 MM-RPM. Full Returns. MW In/Out 9.9, Vis 63 Surveys: MD Inc Azm 7960 .88° 70.36°	1.5
RIG_SVC	Lubricate Rig and Top Drive. Inspected #'s 1,2, and 3 shaker beds.	0.5
DRL_SLIDE	Slide Drill 8-1/2" Production Curve 206' @ 41.2/hr, 15-25K WOB, 120 spm, 461 gpm, 160 Motor rpm, 250-300 Diff, 2300 SPP, HS-GTF . Kick off point at 8010'. 19' ahead of plan. Full returns to surface. MW In/Out: 9.9 -- 9.8 ppg Vis 63 Lithology: 8020' 70% LS, 30% SH 8110' 20% LS, 80% SH 8140' 80% LS, 20% SH Surveys: MD Inc Azm MY BRN 8054 7.39° 356.7° 8.13 9.3 8101 13.37° 356.88° 12.7 8.5 Slide for 77%, Rotate 23% of total drilling time previous 24 hours. Line Proximity: PTB -- 8152', Inc. 13.72°, Azi. 356.59° Line Prox 12.1' High and 21.9' right of Dir.Plan 2. Ran 2 Generators 24 hours.	5

Report #: 17 Daily Operation: 3/30/2015 06:00 - 3/31/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 034476	
Days From Spud (days) 50	Days on Location (days) 16	End Depth (ftKB) 8,972.0	End Depth (TVD) (ftKB) 8,585.9	Dens Last Mud (lb/gal) 9.80	Rig H & P, 606	

Operations Summary

Rotate and Slide Drill Curve from 8,216' to 8,972'.

Remarks

Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 13.9 Days From Spud, 17.375 Total Days On Well, 51 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

Completion percentage: Surface - 100%, Intermediate -100%, Curve - 90%, Lateral - 0%

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Production Curve 124' @ 26'/hr, 15-25K WOB, 120 spm, 461 gpm, 134 Motor rpm, 400-460 Diff, 2380 SPP, 20L GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 61/63 Lithology at 8,170' 60% Shale, 40% Limestone Lithology at 8,230' 60% Shale, 40% Limestone Lithology at 8,260' 70% Shale, 30% Limestone Lithology at 8,310' 50% Shale, 50% Limestone 2 generators online	4.75
DRL_ROT	Rotate Drill 8-1/2" Production 6' @ 78'/hr. 28-30K WOB, 40 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 360 DIFF, 2,350 SPP, 8.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 59/59	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 90' @ 40/hr, 25-30K WOB, 120 spm, 461 gpm, 134 Motor rpm, 380-420 Diff, 2260 SPP, 20L GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 57/59 Lithology at 8,380' 60% Shale, 40% Limestone	2.25
DRL_ROT	Rotate Drill 8-1/2" Production 6' @ 92'/hr. 28-30K WOB, 40 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 360 DIFF, 2,350 SPP, 8.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 59/59	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 41' @ 33/hr, 25-30K WOB, 120 spm, 461 gpm, 134 Motor rpm, 380-420 Diff, 2260 SPP, 10L GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 57/59	1
DRL_ROT	Rotate Drill 8-1/2" Production 6' @ 94'/hr. 28-30K WOB, 40 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 360 DIFF, 2,380 SPP, 8.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 59/59	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 41' @ 33/hr, 25-30K WOB, 120 spm, 461 gpm, 134 Motor rpm, 380-420 Diff, 2260 SPP, 10L GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 59/60	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 6' @ 94'/hr. 28-30K WOB, 40 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 380 DIFF, 2,400 SPP, 9.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 56/57	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 41' @ 41/hr, 25-30K WOB, 120 spm, 461 gpm, 134 Motor rpm, 380-420 Diff, 2260 SPP, 10L GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 59/60	1
DRL_ROT	Rotate Drill 8-1/2" Production 6' @ 94'/hr. 28-30K WOB, 40 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 380 DIFF, 2,400 SPP, 9.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 56/57 Lithology at 8,560' 60% Shale, 40% Limestone	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 42' @ 21/hr, 25-30K WOB, 120 spm, 461 gpm, 134 Motor rpm, 380-420 Diff, 2260 SPP, HS GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 59/60 Lithology at 8,600' 80% Shale, 20% Limestone Lithology at 8,620' 90% Shale, 10% Limestone	2
DRL_ROT	Rotate Drill 8-1/2" Production 7' @ 28'/hr. 28-30K WOB, 40 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 380 DIFF, 2,400 SPP, 9.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 56/57	0.5

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Production Curve 40' @ 40/hr, 25-30K WOB, 120 spm, 461 gpm, 134 Motor rpm, 380-420 Diff, 2260 SPP, HS GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 59/60 Lithology at 8,650' 80% Shale, 20% Limestone	1
DRL_ROT	Rotate Drill 8-1/2" Production 6' @ 24/hr. 25-30K WOB, 45 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 380 DIFF, 2,400 SPP, 9.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 56/57	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 42' @ 41/hr, 20K WOB, 120 spm, 461 gpm, 134 Motor rpm, 280-380 Diff, 2260 SPP, HS GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 59/60	1
DRL_ROT	Rotate Drill 8-1/2" Production 15' @ 30/hr. 25-30K WOB, 45 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 360-480 DIFF, 2,400 SPP, 9.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 56/57	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 32' @ 32/hr, 20K WOB, 120 spm, 461 gpm, 134 Motor rpm, 380-420 Diff, 2260 SPP, HS GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 59/60 Lithology at 8,740' 90% Shale, 10% Limestone	1
DRL_ROT	Rotate Drill 8-1/2" Production 20' @ 40/hr. 25-30K WOB, 45 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 310-540 DIFF, 2,500 SPP, 9.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 56/57	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 27' @ 54/hr, 20K WOB, 120 spm, 461 gpm, 134 Motor rpm, 380-420 Diff, 2260 SPP, HS GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 59/60	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 29' @ 58/hr. 28-30K WOB, 45 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 430-490 DIFF, 2,450 SPP, 9.5K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 56/57	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 18' @ 36/hr, 20K WOB, 120 spm, 461 gpm, 134 Motor rpm, 190-250 Diff, 2260 SPP, HS GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 59/60	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 35' @ 70/hr. 28-30K WOB, 45 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 250-320 DIFF, 2,460 SPP, 8-10K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 57	0.5
DRL_SLID E	Slide Drill 8-1/2" Production Curve 12' @ 24/hr, 20K WOB, 120 spm, 461 gpm, 134 Motor rpm, 160-250 Diff, 2280 SPP, HS GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 57	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 35' @ 35/hr. 32-35K WOB, 45 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 290-350 DIFF, 2,480 SPP, 8-10K TQ. Avg MSE: 0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 57 Lithology at 8,890' 80% Shale, 20% Limestone	0.75
DRL_SLID E	Slide Drill 8-1/2" Production Curve 12' @ 24/hr, 20-24K WOB, 120 spm, 461 gpm, 134 Motor rpm, 200-260 Diff, 2260 SPP, HS GTF. Full returns to surface. MW 9.8 In /9.8 Out, Vis 57	0.5
RIG_SVC	Lubricate Rig and Top Drive. Checked Mud Pump Suction Screens.	0.25

Time Log Summary																																
Operation	Com	Dur (hr)																														
DRL_ROT	<p>Rotate Drill 8-1/2" Production 20' @ 40'/hr. 25-30K WOB, 45 TDS RPM, 120 SPM, 463 GPM, 134 Motor rpm, 174 Total rpm, 480-540 DIFF, 2,540 SPP, 7-10K TQ. Avg MSE: 0.2. Full returns to surface.</p> <p>MW 9.8 In / 9.8 Out, Vis 57</p> <p>Lithology at 8,890' 80% Shale, 20% Limestone Lithology at 8,950' 70% Shale, 30% Limestone</p> <p>Surveys:</p> <table border="1"> <thead> <tr> <th>MD</th> <th>Inc</th> <th>Azm</th> <th>MY</th> <th>BRN</th> </tr> </thead> <tbody> <tr> <td>8572</td> <td>55.40</td> <td>359.34</td> <td>10.18</td> <td>7.9</td> </tr> <tr> <td>8667</td> <td>63.75</td> <td>358.29</td> <td>12.3</td> <td>6.8</td> </tr> <tr> <td>8808</td> <td>77.56</td> <td>357.41</td> <td>13.2</td> <td>3.2</td> </tr> <tr> <td>8855</td> <td>80.20</td> <td>358.11</td> <td>15</td> <td>3.8</td> </tr> <tr> <td>8902</td> <td>81.51°</td> <td>358.46°</td> <td>10.98</td> <td>5.7</td> </tr> </tbody> </table> <p>Slide for 77%, Rotate 23% of total drilling time previous 24 hours.</p> <p>Line Proximity: PTB -- 8951', Inc. 83.35°, Azi. 359.21°</p> <p>Line Prox 4.8' Low and 0.7' right of Dir.Plan 2.</p> <p>Ran 2 Generators 24 hours.</p>	MD	Inc	Azm	MY	BRN	8572	55.40	359.34	10.18	7.9	8667	63.75	358.29	12.3	6.8	8808	77.56	357.41	13.2	3.2	8855	80.20	358.11	15	3.8	8902	81.51°	358.46°	10.98	5.7	0.5
MD	Inc	Azm	MY	BRN																												
8572	55.40	359.34	10.18	7.9																												
8667	63.75	358.29	12.3	6.8																												
8808	77.56	357.41	13.2	3.2																												
8855	80.20	358.11	15	3.8																												
8902	81.51°	358.46°	10.98	5.7																												
DRL_SLID E	<p>Slide Drill 8-1/2" Production Curve 18' @ 36/hr, 20-24K WOB, 120 spm, 461 gpm, 134 Motor rpm, 200-260 Diff, 2260 SPP, HS GTF. Full returns to surface.</p> <p>MW 9.9 In / 9.8+ Out, Vis 58</p>	0.5																														

Report #: 18 Daily Operation: 3/31/2015 06:00 - 4/1/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
Days From Spud (days) 51	Days on Location (days) 17	End Depth (ftKB) 11,026.0
	End Depth (TVD) (ftKB) 8,585.8	Dens Last Mud (lb/gal) 9.80
		Rig H & P, 606

Operations Summary
Rotate and Slide Drill Curve from 8,972' to 8,999' (EOC). Rotate and Slide Drill Lateral from 8,999' to 11,026'.

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 14.9 Days From Spud, 18.375 Total Days On Well, 52 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

Completion percentage: Surface - 100%, Intermediate -100%, Curve - 100%, Lateral - 21%

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	<p>Slide Drill 8-1/2" Production Curve 16' @ 54/hr, 24-26K WOB, 120 spm, 461 gpm, 134 Motor rpm, 200-250 Diff, 2260 SPP, HS GTF. Full returns to surface.</p> <p>Note: Landed the curve at 8,999' MD, 8,587' TVD, Inc. 88.0°, AZM. 2.15°. 5' High, 1.6° Right of Directional Plan #2</p> <p>Lithology at 8,980' 80% Shale, 20% Limestone</p> <p>MW 9.9 In / 9.9 Out, Vis In 59/ 60 Out</p>	0.25
DRL_ROT	<p>Rotate Drill 8-1/2" Production 237' @ 86'/hr. 28-30K WOB, 70 TDS RPM, 150 SPM, 575 GPM, 237 Motor rpm, 174 Total rpm, 430-490 DIFF, 3,370 SPP, 8-12K TQ. Avg MSE: 0.2. Full returns to surface.</p> <p>MW 9.8 In / 9.8 Out, Vis 57</p> <p>Lithology at 9,070' 80% Shale, 20% Limestone Lithology at 9,130' 70% Shale, 30% Limestone</p>	2.75
DRL_SLID E	<p>Slide Drill 8-1/2" Production 20' @ 68/hr, 24-26K WOB, 150 spm, 575 gpm, 167 Motor rpm, 190-260 Diff, 2260 SPP, 70L GTF. Full returns to surface.</p> <p>MW 9.8 In / 9.8 Out, Vis 57</p> <p>Lithology at 9,250' 80% Shale, 20% Limestone</p>	0.75

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Production 20' @ 40'/hr. 28-30K WOB, 70 TDS RPM, 150 SPM, 575 GPM, 168 Motor rpm, 237 Total rpm, 430-490 DIFF, 3,370 SPP, 8-12K TQ. Avg MSE: 0.2. Full returns to surface.</p> <p>MW 9.8 In / 9.8 Out, Vis 57</p> <p>Lithology at 9,280' 70% Shale, 30% Limestone Lithology at 9,340' 70% Shale, 30% Limestone Lithology at 9,400' 80% Shale, 20% Limestone</p>	1.5
DRL_SLID E	<p>Slide Drill 8-1/2" Production 12' @ 33/hr, 22-24K WOB, 150 spm, 576 gpm, 167 Motor rpm, 230-300 Diff, 3070 SPP, 10R GTF. Full returns to surface.</p> <p>MW 9.8 In / 9.8 Out, Vis 57</p>	0.75
DRL_ROT	<p>Rotate Drill 8-1/2" Production 82' @ 49'/hr. 28-30-34K WOB, 70 TDS RPM, 150 SPM, 575 GPM, 168 Motor rpm, 237 Total rpm, 385-490 DIFF, 3,370 SPP, 8-12K TQ. Avg MSE: 0.2. Full returns to surface.</p> <p>MW 9.9 In / 9.9 Out, Vis 57 In/ 58 Out</p> <p>Lithology at 9,460' 80% Shale, 20% Limestone</p>	0.75
DRL_SLID E	<p>Slide Drill 8-1/2" Production 15' @ 45/hr, 20-35K WOB, 150 spm, 576 gpm, 167 Motor rpm, 230-300 Diff, 3070 SPP, 30R GTF. Full returns to surface.</p> <p>MW 9.8 In / 9.8 Out, Vis 57</p> <p>Lithology at 9,520' 90% Shale, 10% Limestone</p>	0.75
DRL_ROT	<p>Rotate Drill 8-1/2" Production 79' @ 158'/hr. 28-30-34K WOB, 70 TDS RPM, 150 SPM, 575 GPM, 168 Motor rpm, 237 Total rpm, 395-500 DIFF, 3,370 SPP, 8-12K TQ. Avg MSE: 0.2. Full returns to surface.</p> <p>MW 9.9 In / 9.9 Out, Vis 58 In/ 60 Out</p> <p>Lithology at 9,550' 90% Shale, 10% Limestone Lithology at 9,610' 90% Shale, 10% Limestone</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Production 14' @ 57/hr, 20-35K WOB, 150 spm, 576 gpm, 167 Motor rpm, 230-300 Diff, 3070 SPP, 50R GTF</p> <p>Full returns to surface.</p> <p>MW 9.9 In / 9.9 Out, Vis 58 In/Out</p> <p>2 generators online</p>	1
DRL_ROT	<p>Rotate Drill 8-1/2" Production 80' @ 160'/hr. 30K WOB, 70 TDS RPM, 150 SPM, 575 GPM, 168 Motor rpm, 237 Total rpm, 392-489 DIFF, 3,002-3,324 SPP, 8-12K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>MW 9.9 In / 9.9 Out, Vis 58 In/ 60 Out</p> <p>Lithology at 9,700' 90% Shale, 10% Limestone</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Production 13' @ 26/hr, 31-34K WOB, 150 spm, 576 gpm, 167 Motor rpm, 154-310 Diff, 2911-3128 SPP, 110R GTF</p> <p>Full returns to surface.</p> <p>MW 9.9 In / 9.9 Out, Vis 56 In/Out</p> <p>2 generators online</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Production 176' @ 88'/hr. 30K WOB, 70 TDS RPM, 150 SPM, 575 GPM, 168 Motor rpm, 237 Total rpm, 369-486 DIFF, 3,041-3,358 SPP, 8-13K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>MW 9.9 In / 9.9 Out, Vis 54 In/ 55 Out</p> <p>Lithology at 9,850' 80% Shale, 20% Limestone</p> <p>Surveys: MD Inc Azm Line Proximity 9845 92.51° 3.56° 1.6' Low 10.4' Left</p>	2

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Production 14' @ 28/hr, 12-22K WOB, 150 spm, 576 gpm, 167 Motor rpm, 5-200 Diff, 2764-3188 SPP, 160L GTF Full returns to surface. MW 9.8 In / 9.8 Out, Vis 54 In/Out 2 generators online	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 174' @ 116'/hr. 27-33K WOB, 80 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 247 Total rpm, 309-487 DIFF, 3031-3388 SPP, 8-13K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 55 In/ 55 Out Lithology at 9,910' 90% Shale, 10% Limestone Lithology at 9,970' 90% Shale, 10% Limestone (TR Embd PYR/QTZ) Lithology at 10,030' 90% Shale, 10% Limestone Surveys: MD Inc Azm Line Proximity 9939 91.01° 2.33° 1.3' High 6.7' Left 10033 91.63° 2.15° 6.4' High 5.0' Left	1.5
DRL_SLID E	Slide Drill 8-1/2" Production 15' @ 30/hr, 22-30K WOB, 150 spm, 576 gpm, 167 Motor rpm, 5-200 Diff, 2764-3188 SPP, 180 GTF. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 54 In/Out Lithology at 10,090' 90% Shale, 10% Limestone 2 generators online	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 174' @ 87'/hr. 24-35K WOB, 75-80 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241-247 Total rpm, 365-531 DIFF, 3187-3434 SPP, 9-14K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 55 In/ 55 Out Lithology at 10,150' 80% Shale, 20% Limestone Lithology at 10,210' 90% Shale, 10% Limestone Lithology at 10,270' 90% Shale, 10% Limestone Surveys: MD Inc Azm Line Proximity 10127 89.52° 1.63° 2.6' High 4.6' Left 10222 90.66° 2.86° 2.2' High 2.9' Left	2
DRL_SLID E	Slide Drill 8-1/2" Production 18' @ 36/hr, 22-30K WOB, 150 spm, 576 gpm, 167 Motor rpm, 80-300 Diff, 2708-3126 SPP, 140L GTF. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 54 In/Out 2 generators online	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 364' @ 104'/hr. 22-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 336-526 DIFF, 3016-3542 SPP, 9-14K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 9.8 In / 9.8 Out, Vis 56 In/ 56 Out Lithology at 10,330' 90% Shale, 10% Limestone Lithology at 10,390' 90% Shale, 20% Limestone Lithology at 10,450' 70% Shale, 30% Limestone Lithology at 10,510' 80% Shale, 20% Limestone Lithology at 10,570' 90% Shale, 10% Limestone Surveys: MD Inc Azm Line Proximity 10316' 88.29° 0.92° 0.7' High 1.7' Left 10411' 88.81° 0.92° 2.3' Low 2.1' Left 10505' 89.78° 1.10° 3.4' Low 2.4' Left 10599' 90.66° 1.27° 2.3' Low 2.4' Left	3.5

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Production 10' @ 20/hr, 13-21K WOB, 150 spm, 576 gpm, 167 Motor rpm, 129-274 Diff, 2869-3453 SPP, 180 GTF. Full returns to surface. MW 9.9 In / 9.8 Out, Vis 59/56 In/Out Lithology at 10,630' 90% Shale, 10% Limestone 2 generators online	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 273' @ 136.5'/hr. 26-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 336-536 DIFF, 3016-3542 SPP, 9-14K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 9.9 In / 9.8 Out, Vis 56 In/ 56 Out Lithology at 10,390' 90% Shale, 20% Limestone Surveys: MD Inc Azm Line Proximity 10316' 88.29° 0.92° 0.7' High 1.7' Left 10411' 88.81° 0.92° 2.3' Low 2.1' Left 10505' 89.78° 1.10° 3.4' Low 2.4' Left 10599' 90.66° 1.27° 2.3' Low 2.4' Left 10693' 89.08° 0.92° 1.9' Low 2.5' Left 10788' 89.69° .057° 2.3' Low 3.3' Left 10882' 90.13° 358.99° 1.7' Low 5.5' Left	2
RIG_SVC	Lubricate Rig and Top Drive. Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 94' @ 188'/hr. 35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 300-500 DIFF, 3000-3500 SPP, 9-14K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Slide for 25%, Rotate 75% of total drilling time previous 24 hours. Line Proximity: PTB -- 10,935', Inc. 90.39°, Azi. 358.09° Line Prox 1.1' Low and 8.0' right of Dir. Plan 2. Ran 2 Generators 24 hours.	0.5

Report #: 19 Daily Operation: 4/1/2015 06:00 - 4/2/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 034476	
Days From Spud (days) 52	Days on Location (days) 18	End Depth (ftKB) 13,004.0	End Depth (TVD) (ftKB) 8,596.9	Dens Last Mud (lb/gal) 9.95	Rig H & P, 606

Operations Summary

Rotate and Slide Drill Lateral from 11,026' to 13,004'.

Remarks

Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 15.9 Days From Spud, 19.375 Total Days On Well, 53 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

Completion percentage: Surface - 100%, Intermediate - 100%, Curve - 100%, Lateral - 42%

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Production 94' @ 188'/hr. 29-33K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 410-530 DIFF, 3390-3620 SPP, 10-14K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 11,020' 80% Shale, 20% Limestone Lithology at 11,080' 90% Shale, 10% Limestone	1.25
DRL_SLID E	Slide Drill 8-1/2" Production 13' @ 43/hr, 34-40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 140-290 Diff, 3000-3320 SPP, 140R GTF. Full returns to surface. MW 9.9 In / 9.9 Out, Vis 57/58 In/Out Lithology at 11,130' 90% Shale, 10% Limestone	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 81' @ 188'/hr. 30-34K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 340-490 DIFF, 3380-3600 SPP, 10-14K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 11,190' 80% Shale, 20% Limestone	0.75

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Production 15' @ 30/hr, 34-40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 140-290 Diff, 3000-3320 SPP, 120R GTF. Full returns to surface. MW 9.9 In / 9.8 Out, Vis 59/56 In/Out Lithology at 11,220' 90% Shale, 10% Limestone	0.75
DRL_ROT	Rotate Drill 8-1/2" Production 268' @ 214'/hr. 30-34K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 425-540 DIFF, 3320-3720 SPP, 12-15K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 11,280' 90% Shale, 10% Limestone Lithology at 11,340' 90% Shale, 10% Limestone Lithology at 11,400' 80% Shale, 20% Limestone Lithology at 11,460' 80% Shale, 20% Limestone	2
DRL_SLID E	Slide Drill 8-1/2" Production 15' @ 30/hr, 34-40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 140-290 Diff, 3000-3320 SPP, 40R GTF. Full returns to surface. MW 9.9 In / 9.9 Out, Vis 57/55 In/Out	0.75
DRL_ROT	Rotate Drill 8-1/2" Production 79' @ 158'/hr. 30-34K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 430-580 DIFF, 3420-3710 SPP, 12-15K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 11,520' 90% Shale, 10% Limestone w/ traces of Pyrite Lithology at 11,580' 80% Shale, 20% Limestone	0.5
DRL_SLID E	Slide Drill 8-1/2" Production 10' @ 20/hr, 25-40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 90-225 Diff, 3025-3380 SPP, 60R GTF. Full returns to surface. MW 9.9 In / Out, Vis 55 In/Out	0.75
DRL_ROT	Rotate Drill 8-1/2" Production 85' @ 158'/hr. 30-34K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 430-580 DIFF, 3420-3710 SPP, 12-15K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 11,610' 80% Shale, 20% Limestone Lithology at 11,680' 80% Shale, 20% Limestone	0.75
DRL_SLID E	Slide Drill 8-1/2" Production 15' @ 20/hr, 25-40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 90-225 Diff, 3025-3380 SPP, 130R GTF. Full returns to surface. MW 9.9 In / Out, Vis 55 In/Out 2 generators online	1
DRL_ROT	Rotate Drill 8-1/2" Production 172' @ 172'/hr. 30-34K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 430-580 DIFF, 3450-3630 SPP, 12-16K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 11,720' 80% Shale, 20% Limestone Lithology at 11,780' 80% Shale, 20% Limestone 3 generators online @ 16:30 hrs.	1.75
DRL_SLID E	Slide Drill 8-1/2" Production 13' @ 20/hr, 25-40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 90-225 Diff, 3025-3380 SPP, 130R GTF. Full returns to surface. MW 9.9 In / Out, Vis 55 In/Out Lithology at 11,880' 90% Shale, 10% Limestone	0.75
DRL_ROT	Rotate Drill 8-1/2" Production 176' @ 140'/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 200-500 DIFF, 3200-3850 SPP, 12-16K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 11,940' 90% Shale, 10% Limestone Lithology at 12,000' 90% Shale, 10% Limestone Lithology at 12,060' 90% Shale, 10% Limestone MW 9.9 In/Out Vis 55 In/Out Surveys: MD Inc Azm Line Proximity 11918' 88.20° 1.27° 3.1' High 2.7' Right 12012' 86.70° 359.16° 0.4' Low 1.1' Right	1.25

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Production 9' @ 18/hr, 26-45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 3130 Diff, 338 SPP, 90R GTF. Full returns to surface. MW 9.9 In / Out, Vis 55 In/Out	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 86' @ 172/hr. 30-38K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 260-561 DIFF, 3436-3713 SPP, 11-16K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 12,120' 90% Shale, 10% Limestone MW 9.9 In/Out Vis 55 In/Out Surveys: MD Inc Azm Line Proximity 12106' 87.85° 0.04° 4.3' Low 1.5' Left	0.5
DRL_SLID E	Slide Drill 8-1/2" Production 10' @ 20/hr, 14-32K WOB, 150 spm, 576 gpm, 167 Motor rpm, 80-277 Diff, 3100-3377 SPP, 30R GTF. Full returns to surface. MW 10 In / 9.8 Out, Vis 55 In/Out	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 177' @ 177'/hr. 21-30K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 450-543 DIFF, 3607-3747 SPP, 11-17K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 12,180' 90% Shale, 10% Limestone Lithology at 12,240' 90% Shale, 10% Limestone Lithology at 12,300' 80% Shale, 20% Limestone MW 9.9 In/Out Vis 56 In/Out Surveys: MD Inc Azm Line Proximity 12200' 89.87° 0.75° 5.5' Low 2.7' Left 12294' 90.04° 359.52° 5.3' Low 4.5' Left	1
U_SCEQ	Re-Log Gamma from 12,313' to 12,344' due to Totco Bit Tracking jumping hole depth. Log at 125 FPH, 75RPM, 11K TQ, 150 SPM, 576 GPM, 3200 SPP.	0.75
DRL_ROT	Rotate Drill 8-1/2" Production 95' @ 95'/hr. 23-32K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 398-587 DIFF, 3031-3766 SPP, 11-17K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 12,360' 80% Shale, 20% Limestone Lithology at 12,420' 80% Shale, 20% Limestone MW 9.9 In/Out Vis 55 In/Out Surveys: MD Inc Azm Line Proximity 12389' 90.84° 359.52° 4.4' Low 7.2' Left	1
DRL_SLID E	Slide Drill 8-1/2" Production 11' @ 22/hr, 15K WOB, 150 spm, 576 gpm, 167 Motor rpm, 200 Diff, 3200 SPP, 130R GTF. Full returns to surface. MW 10 In / 9.8 Out, Vis 55 In/Out	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 83' @ 166/hr. 25-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 250-553 DIFF, 3153-3753 SPP, 11-17K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 9.9 In/Out Vis 57 In/Out Lithology at 12,480 90% Shale, 10% Limestone Surveys: MD Inc Azm Line Proximity 12483' 90.13° 0.22° 3.4' Low 9.4' Left	0.5
DRL_SLID E	Slide Drill 8-1/2" Production 11' @ 11/hr, 20-45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 90-236 Diff, 3074-3502 SPP, 130R GTF. Full returns to surface. MW 9.9 In / Out, Vis 57 In/Out Lithology at 12,540' 90% Shale, 10% Limestone	1

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Production 93' @ 186/hr. 30-40K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 455-594 DIFF, 3555-3828 SPP, 11-17K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 9.9 In/Out Vis 57 In/Out Lithology at 12,600' 90% Shale, 10% Limestone Surveys: MD Inc Azm Line Proximity 12577' 90.22° 1.10° 2.8' Low 10.2' Left	0.5
DRL_SLID E	Slide Drill 8-1/2" Production 12' @ 24/hr, 24-45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 70-272 Diff, 3287-3507 SPP, 120R GTF. Full returns to surface. MW 10.0/9.9 In / Out, Vis 58/57 In/Out	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 73' @ 73/hr. 35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 550 DIFF, 3900 SPP, 11-14K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 1.0 In/Out Vis 58 In/Out Lithology at 12,660' 90% Shale, 10% Limestone	1
RIG_SVC	Lubricate Rig and Top Drive. Check Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL_SLID E	Slide Drill 8-1/2" Production 8' @ 16/hr, 15K WOB, 150 spm, 576 gpm, 167 Motor rpm, 200 Diff, 3400 SPP, 90R GTF. Full returns to surface. MW 10.0/9.9 In / Out, Vis 58/57 In/Out Lithology at 12,720' 90% Shale, 10% Limestone	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 274' @ 137/hr. 35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 550 DIFF, 3900 SPP, 11-14K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 10.0 In/Out Vis 58 In/Out Surveys: MD Inc Azm Line Proximity 12766' 90.40° 4.09° 2.8' Low 6.6' Left 12860 90.84° 3.21° 1.6' Low 2.5' Left Slide for 37%, Rotate 63% of total drilling time previous 24 hours. Line Proximity: PTB -- 12,910', Inc. 91.09°, Azi. 2.73° Line Prox .06' Low and 0.9' Left of Dir.Plan 2. Ran 2 Generators 10.5 hours. Ran 3 Generators 13.5 hours.	2

Report #: 20 Daily Operation: 4/2/2015 06:00 - 4/3/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 034476	
Days From Spud (days) 53	Days on Location (days) 19	End Depth (ftKB) 15,266.0	End Depth (TVD) (ftKB) 8,605.5	Dens Last Mud (lb/gal) 10.00	Rig H & P, 606	

Operations Summary

Rotate and Slide Drill Lateral from 13,004' to 15,266'.

Remarks

Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 16.9 Days From Spud, 20.375 Total Days On Well, 54 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

Completion percentage: Surface - 100%, Intermediate -100%, Curve - 100%, Lateral - 63%

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Production 660' @ 110'/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 550 DIFF, 3900 SPP, 14-16K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 13080' 90% Shale, 10% LS 13140' 80% Shale, 20% LS 13320' 70% Shale, 30% LS 13590' 90% Shale, 10% LS, Tr of qtz.</p> <p>MW 10.0 In/Out Vis 58 In/Out</p>	6
DRL_SLID E	<p>Slide Drill 8-1/2" Production 12' @ 12/hr, 40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 200 Diff, 3550 SPP, 100R GTF. Full returns to surface.</p> <p>Lithology at 13650' 80% Shale, 20% LS</p> <p>MW 10.0 In / Out, Vis 63 In/Out</p>	1
DRL_ROT	<p>Rotate Drill 8-1/2" Production 284' @ 114'/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 550 DIFF, 4000 SPP, 14-16K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 13740' 80% Shale, 20% LS Lithology at 13860' 70% Shale, 30% LS</p> <p>MW 10.0 In/Out Vis 59 In/Out</p>	2.5
DRL_SLID E	<p>Slide Drill 8-1/2" Production 14' @ 28/hr, 49K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-200 Diff, 3550 SPP, 100R GTF. Full returns to surface.</p> <p>MW 10+ In / Out, Vis 59 In/Out</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Production 265' @ 106'/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 400-550 DIFF, 3500-4000 SPP, 12-20K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 14130' 80% Shale, 20% LS</p> <p>MW 10.0 In/Out Vis 59 In/Out</p>	2.5
DRL_SLID E	<p>Slide Drill 8-1/2" Production 18' @ 36/hr, 38K WOB, 150 spm, 576 gpm, 167 Motor rpm, 100-250 Diff, 3600-3650 SPP, 140L GTF. Full returns to surface.</p> <p>MW 10+ In / Out, Vis 59 In/Out</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Production 265' @ 106'/hr. 30-34K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 450-550 DIFF, 4050 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 14310' 60% Shale, 40% LS Lithology at 14370' 60% Shale, 40% LS Lithology at 14430' 80% Shale, 20% LS Lithology at 14520' 90% Shale, 10% LS</p> <p>MW 10.0 In/Out Vis 53-57 In/Out</p>	2.5
DRL_SLID E	<p>Slide Drill 8-1/2" Production 19' @ 38/hr, 38K WOB, 150 spm, 576 gpm, 167 Motor rpm, 250 Diff, 3650 SPP, 140L GTF. Full returns to surface.</p> <p>MW 10 In / Out, Vis 53 In/Out</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Production 76' @ 76'/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 450-550 DIFF, 3850-4050 SPP, 14-19K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 14580' 90% Shale, 10% LS</p> <p>MW 10.0 In/Out Vis 59 In/Out</p>	1
DRL_SLID E	<p>Slide Drill 8-1/2" Production 8' @ 16/hr, 34-42K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-220 Diff, 3499-3698 SPP, 180 GTF. Full returns to surface.</p> <p>MW 10 In / Out, Vis 53 In/Out</p>	0.5

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Production 275' @ 137.5/hr. 30-34K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 450-650 DIFF, 3900-4165 SPP, 14-18K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 14640' 90% Shale, 10% LS Lithology at 14730' 90% Shale, 10% LS Lithology at 14790' 90% Shale, 10% LS Lithology at 14850' 90% Shale, 10% LS MW 10.0 In/Out Vis 59 In/Out	2
DRL_SLID E	Slide Drill 8-1/2" Production 18' @ 36/hr, 34-38K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-200 Diff, 3450-3750 SPP, 130L GTF. Full returns to surface. Lithology at 14910' 90% Shale, 10% LS MW 10 In / Out, Vis 53 In/Out	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 76' @ 152/hr. 30-34K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 450-550 DIFF, 3850-4050 SPP, 14-19K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 14970' 90% Shale, 10% LS MW 10.0 In/Out Vis 59 In/Out	0.5
DRL_SLID E	Slide Drill 8-1/2" Production 18' @ 36/hr, 34-42K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-175 Diff, 3350-3710 SPP, 110L GTF. Full returns to surface. MW 10 In / Out, Vis 53 In/Out	0.5
RIG_SVC	Lubricate Rig and Top Drive. Check Suction Screens on Mud Pumps, Clean and Check Shaker Screens Clean.	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 178' @ 178/hr. 28-33K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 431-622 DIFF, 3416-4123 SPP, 14-19K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 15030' 90% Shale, 10% LS MW 10.0 In/Out Vis 59 In/Out	1
DRL_SLID E	Slide Drill 8-1/2" Production 10' @ 13.3/hr, 34-45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-175 Diff, 3350-3710 SPP, 100R GTF. Full returns to surface. MW 10 In / Out, Vis 53 In/Out	0.75
DRL_ROT	Rotate Drill 8-1/2" Production 74' @ 98.8/hr. 28-33K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 431-622 DIFF, 3416-4123 SPP, 14-19K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 10.0 In/Out Vis 59 In/Out Slide for 20%, Rotate 80% of total drilling time previous 24 hours. Line Proximity: PTB -- 15,173', Inc. 88.95°, Azi. 356.9° Line Prox 0.1' Low and 2.4' Left of Dir.Plan 2. Ran 3 Generators 24 hours.	0.75

Report #: 21 Daily Operation: 4/3/2015 06:00 - 4/4/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	034476

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
54	20	17,152.0	8,602.9	10.00	H & P, 606

Operations Summary
 Rotate and Slide Drill Lateral from 15,266' to 17,152'.

Remarks
 Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 17.9 Days From Spud, 21.375 Total Days On Well, 55 Total Days On Location

 Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

 Completion percentage: Surface - 100%, Intermediate -100%, Curve - 100%, Lateral - 86%

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Production 16' @ 32'/hr. 28-33K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 431-622 DIFF, 3850 SPP, 13K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 15270' 80% Shale, 20% LS</p> <p>MW 10.0 In/Out Vis 53 In/Out</p>	0.5
DRL_SLIDE	<p>Slide Drill 8-1/2" Production 14' @ 28/hr, 45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-150 Diff, 3700 SPP, 80R GTF. Full returns to surface.</p> <p>MW 10 In / Out, Vis 53 In/Out</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Production 68' @ 68'/hr. 28-33K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 550-600 DIFF, 4000 SPP, 16K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 15300' 90% Shale, 10% LS</p> <p>MW 10.0 In/Out Vis 53 In/Out</p>	1
DRL_SLIDE	<p>Slide Drill 8-1/2" Production 14' @ 28/hr, 45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-150 Diff, 3700 SPP, 80R GTF. Full returns to surface.</p> <p>Lithology @ 15360' 70% Shale 30% LS</p> <p>MW 10 In / Out, Vis 53 In/Out</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Production 459' @ 102'/hr. 30-33K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 550-600 DIFF, 4000 SPP, 17K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 15390' 80% Shale, 20% LS TR QTZ 15450' 70% Shale, 30% LS 15510' 70% Shale, 30% LS TR QTZ 15570' 50% Shale, 50% LS TR QTZ 15630' 60% Shale, 40% LS TR QTZ 15750' 70% Shale, 30% LS TR QTZ 15810' 60% Shale, 40% LS</p> <p>MW 10.0 In/Out Vis 55 In/Out</p>	4.5
DRL_SLIDE	<p>Slide Drill 8-1/2" Production 14' @ 14'/hr, 45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-150 Diff, 3700 SPP, 80R GTF. Full returns to surface.</p> <p>15840' 60% Shale, 40% LS</p> <p>MW 10+ In / Out, Vis 56 In/Out</p>	1
DRL_ROT	<p>Rotate Drill 8-1/2" Production 172' @ 86'/hr. 30K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 550-600 DIFF, 4000 SPP, 18K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 15900' 60% Shale, 40% LS Lithology at 15960' 60% Shale, 40% LS</p> <p>MW 10+ In/Out Vis 56 In/Out</p>	2
DRL_SLIDE	<p>Slide Drill 8-1/2" Production 10' @ 8'/hr, 37K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-200 Diff, 3675 SPP, 150R GTF. Full returns to surface.</p> <p>Lithology at 16020' 70% Shale, 30% LS</p> <p>MW 10+ In / Out, Vis 52 In/Out</p>	1.25
DRL_ROT	<p>Rotate Drill 8-1/2" Production 172' @ 98.3'/hr. 30-40K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 500-640 DIFF, 4250 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 16080' 80% Shale, 20% LS 16140' 80% Shale, 20% LS 16200' 90% Shale, 10% LS</p> <p>MW 10+ In/Out Vis 54 In/Out</p>	1.75
DRL_SLIDE	<p>Slide Drill 8-1/2" Production 15' @ 11.25'/hr, 40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 125 Diff, 3800 SPP, 150R GTF. Full returns to surface.</p> <p>MW 10+ In / Out, Vis 52 In/Out</p>	0.75

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Production 89' @ 118.7/hr. 30-40K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 440-550 DIFF, 4300 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 16260' 90% Shale, 10% LS</p> <p>MW 10+ In/Out Vis 53 In/Out</p>	0.75
DRL_SLID E	<p>Slide Drill 8-1/2" Production 14' @ 18.7/hr, 40K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-125 Diff, 3825 SPP, 180 GTF. Full returns to surface.</p> <p>Lithology at 16320' 90% Shale, 10% LS</p> <p>MW 10+ In / Out, Vis 53 In/Out</p>	0.75
DRL_ROT	<p>Rotate Drill 8-1/2" Production 175' @ 140/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 500-600 DIFF, 4200 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 16380' 90% Shale, 10% LS 16440' 90% Shale, 10% LS 16500' 90% Shale, 10% LS</p> <p>MW 10+ In/Out Vis 53 In/Out</p>	1.25
DRL_SLID E	<p>Slide Drill 8-1/2" Production 15' @ 11.25/hr, 45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 75-125 Diff, 3835 SPP, 100R GTF. Full returns to surface.</p> <p>MW 10+ In / Out, Vis 53 In/Out</p>	0.75
DRL_ROT	<p>Rotate Drill 8-1/2" Production 80' @ 106.7/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 500-600 DIFF, 4200 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 16560' 90% Shale, 10% LS</p> <p>MW 10+ In/Out Vis 53 In/Out</p>	0.75
DRL_SLID E	<p>Slide Drill 8-1/2" Production 15' @ 20/hr, 45K WOB, 150 spm, 576 gpm, 167 Motor rpm, 70-135 Diff, 3800 SPP, 70R GTF. Full returns to surface.</p> <p>MW 10+ In / Out, Vis 53 In/Out</p>	0.75
DRL_ROT	<p>Rotate Drill 8-1/2" Production 163' @ 130.4/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 575 GPM, 167 Motor rpm, 241 Total rpm, 500-600 DIFF, 4200 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 16620' 80% Shale, 20% LS 16680' 70% Shale, 30% LS 16740' 80% Shale, 20% LS</p> <p>MW 10+ In/Out Vis 53 In/Out</p>	1.25
RIG_SVC	Lubricate Rig and Top Drive. Check Suction Screens on Mud Pumps, Clean and Check Shaker Screens Clean.	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Production 377' @ 107.7/hr. 30-35K WOB, 75 TDS RPM, 148 SPM, 565 GPM, 164 Motor rpm, 239 Total rpm, 500-600 DIFF, 4200-4350 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface.</p> <p>Lithology at 16830' 70% Shale, 30% LS</p> <p>MW 10+ In/Out Vis 55 In/Out</p> <p>Slide for 27%, Rotate 73% of total drilling time previous 24 hours.</p> <p>Line Proximity: PTB -- 17,062', Inc. 90.64°, Azi. 1.00°</p> <p>Line Prox 1.3' High and 0.9' Left of Dir.Plan 2.</p> <p>Ran 3 Generators 24 hours.</p>	3.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 22 Daily Operation: 4/4/2015 06:00 - 4/5/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 034476		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
55	21	18,430.0	8,612.2	10.30	H & P, 606			

Operations Summary
 Rotate and Slide Drill Lateral from 17,152' to TD at 18,430'. Pump Sweep and begin Circulating K&M Cleanup Cycle.

Remarks
 Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 18.9 Days From Spud, 22.375 Total Days On Well, 56 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

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

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Production 12' @ 24'/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 552 GPM, 160 Motor rpm, 235 Total rpm, 500-600 DIFF, 4100 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface. MW 10+ In/Out Vis 55 In/Out	0.5
DRL_SLID E	Slide Drill 8-1/2" Production 15' @ 30'/hr, 30K WOB, 144 spm, 552 gpm, 160 Motor rpm, 70-200 Diff, 3600 SPP, 160R GTF. Full returns to surface. MW 10+ In / Out, Vis 54 In/Out	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 261' @ 104'/hr. 30-35K WOB, 75 TDS RPM, 150 SPM, 552 GPM, 160 Motor rpm, 235 Total rpm, 500-600 DIFF, 4100 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 17190' 80% Shale, 20% LS Lithology at 17250' 80% Shale, 20% LS Lithology at 17310' 80% Shale, 20% LS Lithology at 17430' 80% Shale, 20% LS MW 10+ In/Out Vis 56 In/Out	2.5
DRL_SLID E	Slide Drill 8-1/2" Production 15' @ 15'/hr, 25K WOB, 144 spm, 552 gpm, 160 Motor rpm, 70-200 Diff, 3600 SPP, 150R GTF. Full returns to surface. MW 10+ In / Out, Vis 53 In/Out	1.5
DRL_ROT	Rotate Drill 8-1/2" Production 171' @ 114'/hr. 30-35K WOB, 75 TDS RPM, 144 SPM, 552 GPM, 160 Motor rpm, 235 Total rpm, 500-600 DIFF, 4100 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 17460' 80% Shale, 20% LS Lithology at 17520' 70% Shale, 30% LS Lithology at 17550' 70% Shale, 30% LS MW 10+ In/Out Vis 53 In/Out	1.5
DRL_SLID E	Slide Drill 8-1/2" Production 12' @ 6'/hr, 30-35K WOB, 144 spm, 552 gpm, 160 Motor rpm, 50-150 Diff, 3700 SPP, 130L GTF. Full returns to surface. MW 10+ In / Out, Vis 53 In/Out Note: Stalled motor, lost toolface and time spent trying to regain.	2
DRL_ROT	Rotate Drill 8-1/2" Production 33' @ 66'/hr. 30K WOB, 75 TDS RPM, 144 SPM, 552 GPM, 160 Motor rpm, 235 Total rpm, 500-600 DIFF, 4200 SPP, 19K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 17640' 80% Shale, 20% LS Lithology at 17670' 70% Shale, 30% LS MW 10+ In/Out Vis 53 In/Out	0.5
DRL_SLID E	Slide Drill 8-1/2" Production 12' @ 6'/hr, 30K WOB, 144 spm, 552 gpm, 160 Motor rpm, 50-200 Diff, 3600-3900 SPP, 100L GTF. Full returns to surface. MW 10+ In / Out, Vis 53 In/Out	1
DRL_ROT	Rotate Drill 8-1/2" Production 34' @ 34'/hr. 28-38K WOB, 75 TDS RPM, 144 SPM, 552 GPM, 160 Motor rpm, 235 Total rpm, 450-600 DIFF, 3900-4250 SPP, 13-20K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 17700' 70% Shale, 30% LS MW 10+ In/Out Vis 53 In/Out	1

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Production 7' @ 14'/hr, 30K WOB, 144 spm, 552 gpm, 160 Motor rpm, 50-200 Diff, 3600-3900 SPP, 100L GTF. Full returns to surface. MW 10+ In / Out, Vis 53 In/Out	0.5
DRL_ROT	Rotate Drill 8-1/2" Production 98' @ 98'/hr. 28-38K WOB, 75 TDS RPM, 144 SPM, 552 GPM, 160 Motor rpm, 235 Total rpm, 450-600 DIFF, 3900-4250 SPP, 20K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 17760' 80% Shale, 20% LS Lithology at 178200' 80% Shale, 20% LS MW 10.1 In/Out Vis 53 In/Out Concurrently increase MW to 10.3 ppg.	1
DRL_SLID E	Slide Drill 8-1/2" Production 7' @ 14'/hr, 38K WOB, 144 spm, 552 gpm, 160 Motor rpm, 125 Diff, 3850 SPP, 120L GTF. Full returns to surface. MW 10.1+ In / Out, Vis 53 In/Out Concurrently increase MW to 10.3 ppg.	1
DRL_ROT	Rotate Drill 8-1/2" Production 590' @ 98.3'/hr. 28-38K WOB, 75 TDS RPM, 138 SPM, 528 GPM, 160 Motor rpm, 235 Total rpm, 575 DIFF, 4200 SPP, 20K TQ. Avg MSE: 0.1-0.2. Full returns to surface. Lithology at 17850' 80% Shale, 20% LS Lithology at 17910' 90% Shale, 10% LS Lithology at 18150' 90% Shale, 10% LS Lithology at 18210' 80% Shale, 20% LS Lithology at 18270' 80% Shale, 20% LS Lithology at 18330' 70% Shale, 30% LS Lithology at 18390' 60% Shale, 40% LS Lithology at 18430' 80% Shale, 20% LS MW 10.3 In/Out Vis 55 In/Out Concurrently increase MW to 10.3 ppg.	6
RIG_SVC	Lubricate Rig and Top Drive. Check Suction Screens on Mud Pumps, Clean and Check Shaker Screens.	0.5
CIRC	Circulate K&M Cleanup cycle, 7 calculated BU, before TOOH to run 5.5" P110 20# BTC csg. Pump 30 bbls Weighted Sweep and Circulate while Reciprocating Drill String at 575-600 GPM, 125-4275 SPP, 80 RPM. No Mud Losses. Concurrently LD 3 Stands of HWDP from the Derrick. **1st BU returned 10% increase in cuttings to surface.** **Sweep returned 20% increase in cuttings to surface.** **2nd BU returned 5% increase in cuttings to surface.** Slide for 33%, Rotate 67% of total drilling time previous 24 hours. Line Proximity: PTB -- 18430', Inc. 90.84°, Azm 357.58° Line Prox 2.0' Low and 11.2' Left of Directional Plan #2. Ran 3 Generators 24 hours.	4

Report #: 23 Daily Operation: 4/5/2015 06:00 - 4/6/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 034476
Days From Spud (days) 56	Days on Location (days) 22	End Depth (ftKB) 18,430.0	End Depth (TVD) (ftKB) 8,612.2	Dens Last Mud (lb/gal) 10.30	Rig H & P, 606

Operations Summary
Finish circulating K&M clean up cycles. TOOH from 18,430' to 17,341'. LD Drill Pipe from 17,341' to the BHA.

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 19.9 Days From Spud, 23.375 Total Days On Well, 57 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of March

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

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Continue circulating K&M cleanup cycles. Total of 7 bottoms up circulating @ 595 gpm, 4200 psi SPP, rotating @ 80 rpms and reciprocating pipe. **3rd BU returned 10% increase in cuttings to surface.** **4th BU returned 0% increase in cuttings to surface.** **5th BU returned 0% increase in cuttings to surface.** **6th BU returned 0% increase in cuttings to surface.** **7th BU returned 0% increase in cuttings to surface.**	3
TOOH	EJSM w/ rig crew & PNR Rep on TOOH. Check well for flow, well static. Pull 10 stands wet F/ 18430' T/ 17341' making sure no excessive drag or overpull and set back in derrick. Monitor returns over trip tank, hole taking proper fill for calculated steel displacement.	1
TOOH	Pump trip slug. Check well for flow, well static. TOOH from 17,341' to 5,842' laying down drill pipe. Monitor returns over trip tank, hole taking proper fill for calculated steel displacement.	11.25
TIH	TIH with Dill Pipe and HWDP from the Derrick from 5,842' to 7,300'. Monitor well on Trip Tank, Proper Displacement.	0.75
TOOH	Check well for flow, well static. TOOH LD HWDP from 7300' to 6710', using Tongs to Break over Tourqued HWDP. Monitor returns over trip tank, hole taking proper fill for calculated steel displacement.	1.25
TOOH	TOOH from 6,710' to 93' (BHA) laying down drill pipe. Monitor returns over trip tank, hole taking proper fill for calculated steel displacement.	5.75
RIG_SVC	Lubricate Rig and Top Drive. Check Suction Screens on Mud Pumps.	0.5
BHA_HAN DLING	Clean Rig Floor of OBM prior to LD BHA due to last 1,700' of Drill String pulling Wet. Slide for 0%, Rotate 0% of total drilling time previous 24 hours. Line Proximity: PTB -- 18430', Inc. 90.84°, Azm 357.58° Line Prox 2.0' Low and 11.2' Left of Directional Plan #2. Ran 3 Generators 5 hours. Ran 2 Generators 19 hours.	0.5

Report #: 24 Daily Operation: 4/6/2015 06:00 - 4/7/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 034476
Days From Spud (days) 57	Days on Location (days) 23	End Depth (ftKB) 18,430.0
End Depth (TVD) (ftKB) 8,612.2	Dens Last Mud (lb/gal) 10.30	Rig H & P, 606

Operations Summary

LD BHA, Pull Wear Bushing and wash Well Head, RU H&P CRT and Casing Equipment. MU Shoe Track, and RIH with 5.5" Production Casing to 12,482'.

Remarks

Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 20.9 Days From Spud, 24.375 Total Days On Well, 58 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of April.

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

Time Log Summary

Operation	Com	Dur (hr)
BHA_HAN DLING	Held EJSA on Laying down BHA. Drain motor, break bit, LD BHA. Clean OBM from rig floor. Bit Dull Grade: 1-2-CT-G-X-0-NO-TD	1.5
WEARBUS HING	Pull wear bushing, wash stack. Note: Confined Space Permit filled out prior to entering cellar.	1.5
CASE	Held EJSA on rigging up H&P CRT & csg tools. Remove rigs D.P. elevators & bails. P/U & R/U CRT tools. Function test CRT, set and test 2 piont calibration. Install 350T spider and slips. Set all F.E. on the floor.	1.5
SAFETY	Held safety meeting on running csg w/ Pioneer reps, H&P rig crew, H&P CRT hand, and Roustabouts.	0.5
CASE	P/U and M/U float shoe, 2 joints of 5 1/2", 20 ppf, P-110, BTC casing, single valve float collar, 1 joint 5 1/2", 20 ppf, P-110, BTC casing, Weatherford toe sleeve, pumped through shoe track. Floats are clear and functional. Weatherford Toe Sleeve Actuation Pressures: Minimum Actuation Pressure 8,516 psi Normal Actuation Pressure 8,766 psi Maximum Actuation Pressure 9,016 psi	1
CASE	RIH w/ 5-1/2", 20 ppf, P-110, BTC casing from 198' to 9,040' (217 joints of 440) filling pipe on the fly. Breaking circulation every 30 joints. Monitoring Well on Trip Tanks, Hole is returning proper fluid for calculated steel displacement.	12.5
CASE	CBU at 9,040' at 308 GPM (7.3 bpm), 407 SPP. Full returns.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
CASE	RIH w/ 5-1/2", 20 ppf, P-110, BTC casing from 9,040' to 12,482' (295 joints of 440) filling pipe on the fly. Breaking circulation every 30 joints. Monitoring Well on Trip Tanks, Hole is returning proper fluid for calculated steel displacement. Line Proximity: PTB -- 18430', Inc. 90.84°, Azm 357.58° Line Prox 2.0' Low and 11.2' Left of Directional Plan #2. Ran 2 Generators 24 hours.	4.5

Report #: 25 Daily Operation: 4/7/2015 06:00 - 4/8/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 034476	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
58	24	18,430.0	8,612.2	10.30	H & P, 606

Operations Summary
Run casing from 12,482' to 18,416'. RD CRT and RU Schlumberger. Cement 5.5", 20#, P-110, BTC casing. RD Schlumberger and install Pack-off. ND BOP and Wash Mud Pits.

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 21.9 Days From Spud, 25.375 Total Days On Well, 59 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of April.

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

Contacted Ivy with TRRC at 08:30 on 4/8/15 for Cement Job.

Time Log Summary

Operation	Com	Dur (hr)
CASE	RIH w/ 5-1/2", 20 ppf, P-110, BTC casing from 12,482' to 18,411' filling pipe on the fly. Breaking circulation every 30 joints. Monitoring Well on Trip Tanks, Hole is returning proper fluid for calculated steel displacement.	8.5
CASE	JSA W/ Seaboard Rep, Rig Crew & PNR CO. Man, P/U 5 1/2" 20# P-110 BTC Hanger and Landing joint. Land Casing per Seaboard Procedure.	1
CASE	Circulate 1.5 casing volumes (612 bbls, 6700 stokes) at 336 GPM (8 BPM), 758 SPP, with full Returns. Concurrently: Move all Cement Equipment to the Rig Floor.	1
CASE	PJSM. RD H&P CRT and LD.	1
CMT	PJSM on RU and MU Schlumberger Cement Head. PJSM with Schlumberger, H&P, RMOS, Toe Sleeve Rep, and PNR Reps on Cement Job.	1

Time Log Summary								
Operation	Com	Dur (hr)						
CMT	<p>Test lines to 5000 PSI - Good test Cement job for 5.5" 20 PPF, P110 BTC Production Casing as follows:</p> <p>Drop Bottom Plug, witnessed by PNR Representative.</p> <p>Flush lines with 20 BBL FW</p> <p>Pump 60 barrels MUDPUSH Express at 13.0 ppg, MUDPUSH Express B389 2.00 ppl BW/V.Spacer, D206 Anti Foam 0.2 gal/bbl of Spacer, B220 Surfactant 1.0 gal/bbl of Spacer, D031 Weighting Agent 6081.3 lb/mgal.</p> <p>Lead: 182 BBL 400 Skts TXI at 11.3 PPG, (75 Lb/Sk of Blend) Yield 2.55 Ft³/Sk, Mix water 14.859 Gal/Sk with Cement 75.0 Lb/Sk WBWOB, D046 Anti-Foam 0.2% BWOB, D065 Dispersant 0.1% BWOB, D013 Retarder 0.6% BWOB, D208 Viscosifier 0.2% BWOB, D207 Fluid Loss 0.3%BWOB, D020 Extender 9.0% BWOB, D178 Silica 6.0% BWOB, D042 Extender 5 Lb/Sk WBWOB.</p> <p>Tail: 521 BBL 1791 Skts TXI at 12.5 PPG, (75 Lb/Sk of Blend) Yield 1.64 Ft³/Sk, Mix water 8.774 Gal/Sk with Cement 75.0 Lb/Sk WBWOB, D046 Anti-Foam 0.2% BWOB, D065 Dispersant 0.1% BWOB, D013 Retarder 0.5% BWOB, D208 Viscosifier 0.1% BWOB, D207 Fluid Loss 0.6%BWOB, D020 Extender 5.0% BWOB.</p> <p>Full returns throughout cement job.</p> <p>Load Top Plug and deploy plug witnessed by PNR.</p> <p>Pumping displacement consisting of 10 BBL Sugar Water and 397 BBL Biocide Water @ 8.4 PPG.</p> <p>Returned: 60 BBL of contaminated MPE and 10 BBL good cmt to surface.</p> <p>Note: Initial Lift PSI 742 psi @ 6.4 bpm, Final lift pressure 2172 psi @ 4.5 bpm. Bump Plug with 1797 psi over final lifting pressure to 3969 psi @ 12:07 per Weatherford Toesleeve Rep.</p> <p>Held 15 min (per Weatherford Rep), bleed back 6 bbl, Floats held</p> <p>PSI into displacement- 40 BBL: 571 PSI @ 6.4 BPM, 100 BBL: 1063 PSI @ 4.1 BPM, 150 BBL: 2097 PSI @ 8 BPM, 200 BBL: 2383 PSI @ 8 BPM, 250 BBL: 2391 PSI @ 8 BPM, 300 BBL: 2459 PSI @ 8 BPM, 350 BBL: 2545 PSI @ 8 BPM, 400 BBL: 2172 PSI @ 4.5 BPM.</p> <p>Note: At 74 BBL into displacement, the connection at the Cement Swedge and Casing Collar began leaking. Broke and Re-torque, still leaking. Changed Csg Collar, no leak.</p>	6						
CMT	<p>Flush lines, BOP and choke with diesel. Blow air through lines from Top Drive to Mud Pumps, through flex hose and choke.</p> <p>EJSA with SLB Cementers and PNR CM on RD Cementers and Iron. RD cement Equipment and Iron.</p>	1						
CASE	<p>Unsting out of Casing Hanger and Install Packoff. LD Landing Joint.</p> <p>Concurrently clean Mud Tanks.</p>	1						
CASE	<p>PJSM on RD casing Elevators and Bales and RU H&P Bales and Elevators. Perform same.</p> <p>Concurrently clean Mud Tanks.</p>	1						
NU_TEST	<p>PJSM with Battle and Rig Crew on ND BOP. Remove Co-Flex Hose, 4 Bolt Stack while removing Flowline, Pollution Pan, and Bail Nipple. Power and bleed down Accumulator. Disconnect Accumulator control Hoses and remove Turnbuckles.</p> <p>Concurrently clean Mud Tanks.</p> <p>Ran 2 Genarators 19 Hours. Ran 1 Genarator 5 Hours.</p> <p>Weatherford Toe Sleeve Actuation Pressures:</p> <table border="0"> <tr> <td>Minimum Actuation Pressure</td> <td>8,516 psi</td> </tr> <tr> <td>Normal Actuation Pressure</td> <td>8,766 psi</td> </tr> <tr> <td>Maximum Actuation Pressure</td> <td>9,016 psi</td> </tr> </table>	Minimum Actuation Pressure	8,516 psi	Normal Actuation Pressure	8,766 psi	Maximum Actuation Pressure	9,016 psi	2.5
Minimum Actuation Pressure	8,516 psi							
Normal Actuation Pressure	8,766 psi							
Maximum Actuation Pressure	9,016 psi							

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 26 Daily Operation: 4/8/2015 06:00 - 4/9/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 034476		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
59	25	18,430.0	8,612.2	9.40	H & P, 606			

Operations Summary
Install abandonment cap and test, RD Derrick and Sub, lower same. rig down and clean rig for load out. Detox pits.

Remarks
Rig (H&P 606) & Well Progress: 4.6 Rig Move Days, 22.9 Days From Spud, 26.375 Total Days On Well, 60 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of April.

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

Time Log Summary

Operation	Com	Dur (hr)
NU_TEST	Install Abandonment Cap and Test to 500 psi/15 Min. Test Good, Charted and on file. Install Needle Valve & Gauge. ***Safe Work Permit - Confined Space Entry***	1
RDMO	Cleaning mud pits. Preparing to lay over derrick and squat subs. Loading out Misc. loads and drill pipe. Load and transport Flowline, stands, and catwalk.	11
SAFETY	PJSM w/ HP, Patterson trucking and PNR rep. on lowering Derrick.	0.25
RDMO	Lower Derrick, dress down cables, lower board, unstring blocks, prep f/ load out. Lower Drillers Cabin, Gas Buster and finish preping to lower sub. **Cleaning pits and solids contol equipment in tandum.**	4.25
SAFETY	PJSM w/ HP and PNR rep on lowering sub structure. Light towers properly staged, adequate lighting available to safely complete task.	0.25
RDMO	Lower sub. Dress down Sub and make ready f/ load out. Continue w/ misc. rig down. Wash Derrick and Sub. **Cleaning pits and solids contol equipment in tandum.** **Rig released @ 06:00 am 4-9-15.** **0 Generators ran f/ 24 hrs. Returned 5,300 gals of Diesel to Fuel Source f/ Credit.**	7.25

Report #: 1 Daily Operation: 4/16/2015 06:00 - 4/17/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 034462		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
67	1	0.0						

Operations Summary
WSI, NU Tubing head 11"5K x 7-1/16" `10K, Torgue studs,Test voids

Remarks
No accidents or incidents

Time Log Summary

Operation	Com	Dur (hr)
WSI	No activity. WSI	5
WLHEAD	Removed top cap on wellhead. NU 11" 5K X 7-1/16" 10K tubing head. Torgue studs to 5000#. Test voids to specs. Remove capping flange. Prep for WL CBL logging.	2
WSI	WSI.	17

Report #: 2 Daily Operation: 4/17/2015 06:00 - 4/18/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 034462		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
68	2	0.0						

Operations Summary
WSI. Plumb up surface and Intermediate valves, MIRU API Wireline & Globe pump truck, Made gauge ring junk basket run, RIH w/ Radial CBL/ gamma ray & CCL. WSI.

Remarks
No accidents or incidents

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI no activity	1
SAFETY	Held safety meeting w/ contractors	0.5
WLHEAD	MIRU K&E construction. Plumbed up surface and intermediate valves to the surface. Ensured all bottom valves were opened. Installed 6" drain pipe. Filled cellar w/ pea gravel. Painted surface valve red & intermediate valve Green. Welded cap plate on mouse hole. All 2" connections are schedule 80.	1.5
WSI	WSI waiting on logging ops on # 38H	5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
WL	Installed 7-1/16" 10 k wireline flange. MU &RIH w/ 4.625" gauge ring junk basket to 8762' 72 deg. POH w/ same. No trash in junk basket. Correlated back to short joint @ 8012-8022'. MU &RIH w/ Radial CBL GR & CCL to 8754'. Logged up 500' to 8254' w/ no pressure applied to csg. Ran back down to 8754' then logged up to surface holding 1500 psi on csg. Found Est. TOC @ 1700'. RDMO API wireline & Globe pump truck.	5
WSI	WSI.	11

Report #: 3 Daily Operation: 5/3/2015 06:00 - 5/4/2015 06:00					
Job Category			Primary Job Type		AFE Number
ORIG COMPLETION			OCM		034462
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
84	3	0.0			
Operations Summary					
Set containment for working tanks, flowback tanks, pump down tanks and 1/2 tank.. Set 2 CM Trailers. Sand loading to silos.					
Frac Tanks: 333,075,765,349,836 flowback/pumpdown:765,11956,524,280					
Remarks					
No accidents or incidents					

Time Log Summary		
Operation	Com	Dur (hr)
WSI	Set containment for working tanks, flowback tanks, pump down tanks and 1/2 tank.. Set 2 CM Trailers. Sand loading to silos. Auxilliary support equipment on location.	24

Report #: 4 Daily Operation: 5/4/2015 06:00 - 5/5/2015 06:00					
Job Category			Primary Job Type		AFE Number
ORIG COMPLETION			OCM		034462
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
85	4	0.0			
Operations Summary					
NU FMC frac Stacks. Close walled containments on work tanks, flowback tanks and half tank. Rig up Archer flowback lines and manifold.					
Frac Tanks: 333,075,765,349,836 flowback/pumpdown:765,11956,524,280					
Remarks					
No accidents or incidents reported					

Time Log Summary		
Operation	Com	Dur (hr)
WSI	No Activity	1
STACK	NU FMC Frac stacks (WECO 4" 1002 female frac header)	3
RURD	Set half tank, Rig up Archer flowback lines. Site Safe - close containment walls on working, gel, acid, chem tanks. Close containment walls on half tank	9
SDFN	WSI - Shut down for night	11

Report #: 5 Daily Operation: 5/5/2015 06:00 - 5/6/2015 06:00					
Job Category			Primary Job Type		AFE Number
ORIG COMPLETION			OCM		034462
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
86	5	0.0			
Operations Summary					
Pressure test water transfer lines, Fill working tanks. BioTech treated working tanks. Raider (pump down equipment) rigged up. PPS staging equipment on adjacent pad.					
PPS Fleet 3: 0.0 hrs 0.0 Cuml hrs					
Ark-La-Tex Wireline: 0.0 hrs 0.0 Cuml hrs					
PrimePack Crane: 0.0 hrs 0.0 Cuml hrs					
Archer Flowback: 0.0 hrs 0.0 Cuml hrs					
Predator Pressure Eqmt: 0.0 hrs 0.0 Cuml hrs					
FMC Surface Systems: 0.0 hrs 0.0 Cuml hrs					
Select Water Transfer: 0.0 hrs 0.0 Cuml hrs					
Schlumberger Completions: 0.0 hrs 0.0 Cuml hrs					
Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280					
Remarks					
No accidents or incidents reported					

Time Log Summary		
Operation	Com	Dur (hr)
WSI	WSI	2
RURD	Pressure test water transfer lines, fill working tanks. BioTech treated working tanks. Raider (pump down equipment) rigged up. PPS staging equipment on adjacent pad.	9
WSI	WSI - No Activity	13

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 6 Daily Operation: 5/6/2015 06:00 - 5/7/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 034462
Days From Spud (days) 87	Days on Location (days) 6	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary
PPS on location begin RU of Blender and hang risers off well heads//Spotted chem van// 6 pumps// missile// Raider on location to prime up pressure test their iron and pumps// HP treating lines rigged from manifold to wellhead. Begin install of restraints.

PPS Fleet 3:	0.0	hrs	0.0	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt: 0.0	hrs	0.0	Cuml hrs	
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	1.5	hrs	1.5	Cuml hrs

Days: Jeremiah Trejo/ Will Lemons
Nights: Jon Booher/ Kevin Armstrong

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Remarks
No accidents or incidents reported

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	Safety meeting with personel on location to discuss RU procedures and potential hazzards	0.5
RURD	PPS moved in iron truck to Hang risers off well heads	2.5
SAFETY	safety meeting with Raider pump down crew discussing prime up and pressure test procedures and potential hazzards	0.5
PSI_TEST	Raider prime up pressure test thier iron and pumps while PPS spotted and begin RU of blender	1
RURD	PPS continue RU of well head risers and blender//	6
RURD	3 pumps rigged to HP manifold Trailer. Blender and Hydration unit hoses rigged up.	3
U_WOW	WSI - waiting on weather	1.5
RURD	Continue with treating line rig up from manifold to risers.	6
RURD	Start restraint to existing treating lines to wellhead.	3

Report #: 7 Daily Operation: 5/7/2015 06:00 - 5/8/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 034462
Days From Spud (days) 88	Days on Location (days) 7	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary
PPS continue to RU equipment. Ark-La-Tex WL spot and rig up. Predator Lube Package spot and rig up. Prime Pack crane spot and rig up. PPS complete restraints. Replace main line lateral in manifold trailer, FleetServe service frac van. Begin prime up and pressure testing - set pressure relief valves.

PPS Fleet 3:	0.0	hrs	0.0	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt: 0.0	hrs	0.0	Cuml hrs	
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	0.0	hrs	1.5	Cuml hrs

Days: Jeremiah Trejo/ Will Lemons / Kurt Kauffman
Nights: Jon Booher/ Kevin Armstrong

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Remarks
No accidents or incidents reported

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	JSA Meeting with PPS to discuss job duties and potential hazzards such as hydration and pinch points	0.5
RURD	PPS continue to RU equipment. Ark-La-Tex WL spot and rig up. Predator Lube Package spot and rig up. Prime Pack crane spot and rig up. PPS complete restraints. Replace main line lateral in manifold trailer, FleetServe service frac van.	21
RURD	Begin prime up and pressure testing, set pressure relief valves.Pressure annulus, Prepare to open toe sleeve	2.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 8 Daily Operation: 5/8/2015 06:00 - 5/9/2015 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 034462
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Days From Spud (days) 89	Days on Location (days) 8	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
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Operations Summary					
PPS Fleet 3:	0.0	hrs	0.0	Cuml hrs	
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs	
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs	
Archer Flowback:	0.0	hrs	0.0	Cuml hrs	
Predator Pressure Eqmt: 0.0	hrs	0.0	Cuml hrs		
FMC Surface Systems: 0.0	hrs	0.0	Cuml hrs		
Select Water Transfer: 0.0	hrs	0.0	Cuml hrs		
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs	
Weather:	0.0	hrs	1.5	Cuml hrs	

FTR: 16,568 BBLs
LTR: 16,568 BBLs
RT: 0 BBLs
CR: 0 BBLs
TSIF: 358,819 LBS

Days: Jeremiah Trejo/ Will Lemons / Kurt Kauffman
Nights: Jon Booher/ Kevin Armstrong

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Remarks	
Open Toe Sleeve	
Frac stage/s: 1, 2	
Perf stage/s: 1, 2, 3	

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM with personel discussed hydration and hazzards of pressurized iron	0.25
OPEN_SLE EVE	Test the intermediate casing to 1,500 psi , Open bottom Frac valve pressure up on 5.5 casing to 6530 psi , Monitor pressure ,15 min 6400 psi , Loss of 130 psi. Intermediate pressure stayed at 1,500 psi , Bring pressure up to 9523 psi , sleeve opened in 13 min , Pressure came down to 3590 psi. Loss of 5933 psi. Eased rate up to 20 bpm. Pump 1500 gals of acid. Displaced acid at 20 bpm / 8620 psi. Acid clear formation 20 bpm / 4646 psi. Bring rate up to 30 bpm @ 4930 psi. Pumped a total of 1000 bbls. Pumped 1000 bbls FTR 1000	1.75
PERF	RU Arklatex WL for Stage# #1 of 43 . RIH & pump down Schlumberger CFP & (3) 3-1/8 perforating guns W/ 21.5 gram, 6 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 18259. Perforate at intervals: 18237-18239, 18191-18193, 18131-18133, Total of 18 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /5550psi, 310 ft/min, 1000 Line Ten. TBP: 592 BBL FTR: 1592 BBL CR: 0 BBL LTR: 1592 BBL TSIF: 0 LBS	2.25
WOZF	Waiting on stim ops	3
STIM	Frac Stage #1of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 179343 lbs 40/70 sand & 7041 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4480 psi @ 20 bpm Acid on form @ 54 bpm 6301 psi Acid clear @ 60 bpm 5858psi Increased rate to 60 bpm. Pumped 690 bbl pad. Ramped 40/70 sand from 0.5 ppg to 3 ppg. Flushed well with 501 bbls. Ending rate 60 bpm @ 5488 psi. Placed 100% prop in formation. Avg. rate: 57.7 bpm Avg. psi: 5618 psi Max. rate: 60 bpm Max. psi: 8512 psi End of job ISIP 3138 FG: 0.79 FTR: 8633 CR: 0 LTR: 8633 TSIF: 179343	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
PERF	RU Arklatex WL for Stage# #2 of 43. RIH & pump down Schlumberger CFP & (3) 3-1/8 perforating guns W/ 21.5 gram, 6 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 18088. Perforate at intervals: 18071-18073, 18011-18013, 17951-17953, Total of 18 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4500psi, 300 ft/min, 800 Line Ten. TBP: 516 BBL FTR: 9149 BBL CR: 0 BBL LTR: 9149 BBL TSIF: 179343 LBS	1.25
WOZF	Waiting on stim ops	3
U_ZPM	Replace packing (2 pumps), prime upmping equipment. Pressure test treating lines.	2.25
U_PEPXD	Could not get pressure test with N2 relief valve. Replace N2 supply bottle and retest.	1
STIM	Frac Stage: 2 of 43. Test stack to 9,500 PSI. Monitor annulus pressure, 1,480 psi. PPS fracture treat perforations per schedule with 24 bbls of 7.5% HCl, 179,476 lbs of 30/50 Brown Sand and 6,894 bbls of Slickwater w?FR down 5.5 casing. Initial Wellhead Pressure: 2,575 psi Formation breakdown: 20.1 bpm @ 4,998 psi. Increased rate to 60 bpm. Started stage with Slickwater , pumped 690 bbls of PAD. Step 40/70 Brown Sand from 0.25 ppg to 2 ppg. Flushed well with 499 bbls. Placed 99.7% prop in formation. AVG Rate: 60 bpm AVG Pressure: 5,556 psi MAX Rate: 60 bpm MAX Pressure: 8,743 psi Post-frac ISIP: 3,581 psi Frac Gradient: 0.850 psi/ft LTR: 16,043 bbls TSIF: 358,819 lbs	2.5
PERF	RU Ark-La-Tex Wireline Services for stage 3 of 43. RIH and pumpdown with Schlumberger Diamondback - (3) Yellow Jacket Oil Tools ,3 1/8 Hollow carrier ,Owens 21.5 gram -SPD-3375-311NT perforating guns. Position and set CFP at 17,908 ft. Perforate intervals: 17,771 - 17,773, 17,831 - 17,833, 17,891 - 17,893. Total of 30 holes. POOH - Stand back wireline. Confirm all guns fired. Pump Down @ 16 bpm/ 4,400 psi. Line Speed: 313 ft/min. Used 525 bbls. FTR Total 16,568 bbls.	2
WOZF	WSI - wait on frac order	2.5

Report #: 9 Daily Operation: 5/9/2015 06:00 - 5/10/2015 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 034462
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Days From Spud (days) 90	Days on Location (days) 9	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
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Operations Summary					
PPS Fleet 3:	0.0	hrs	0.0	Cuml hrs	
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs	
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs	
Archer Flowback:	0.0	hrs	0.0	Cuml hrs	
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs	
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs	
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs	
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs	
Weather:	0.0	hrs	1.5	Cuml hrs	

FTR: 31,315 BBLS
 LTR: 31,315 BBLS
 RT: 0 BBLS
 CR: 0 BBLS
 TSIF: 719,129 LBS

Days: Jeremiah Trejo/ Will Lemons / Kurt Kauffman
 Nights: Jon Booher/ Kevin Armstrong

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Remarks
 Frac stage/s: 3-4
 Perf stage/s: 4-5

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	JSA with all vendors doing swap out.	0.5
WOZF	Waiting on stim ops	1.5
STIM	Frac Stage #of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 180380 lbs 40/70 sand & 6918 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 2600 psi @ 20 bpm Acid on form @ 58 bpm 6743 psi Acid clear @ 58 bpm 6225psi Increased rate to 60 bpm. Pumped 690 bbl pad. Ramped 40/70 sand from 0.5 ppg to 2 ppg. Flushed well with 496 bbls. Ending rate 60 bpm @ 5633 psi. Placed 100% prop in formation. Avg. rate: 56.9 bpm Avg. psi: 5690 psi Max. rate: 62 bpm Max. psi: 8331 psi End of job ISIP 3170 FG: 0.8 FTR: 23486 CR: 0 LTR: 23486 TSIF: 539199	2.25
WOZF	Wait on 38H reflush	4.75
PERF	RU Arklatex WL for Stage# #4 of 43 . RIH & pump down Schlumberger CFP & (3) 3-1/8 perforating guns W/ 21.5 gram, 6 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 17734. Perforate at intervals: 17591-17593, 17651-17653, 17711-17713, Total of 30 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4765psi, 338 ft/min, 1225 Line Ten. TBP: 502 BBL FTR: 23,988 BBL CR: 0 BBL LTR: 23,988 BBL TSIF: 539,199 LBS	2.5
WOF	WSI - wait on frac order	1
U_ZPM	Fleet Serve servicing 2 pump units, Replace Unit 11050 and rig up Unit 11019 (pump bridle assembly loose) tighten, install psi transducer and control cable (missing from unit). Begin pressure test - leak on 4" ground iron. Tighten union,	3

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage: 4 of 43. Test stack to 9,500 PSI. Monitor annulus pressure, 1,333 psi. PPS fracture treat perforations per schedule with 24 bbls of 7.5% HCl, 179,930 lbs of 40/70 Brown Sand and 6,852 bbls of Slickwater w/FR down 5.5 casing.</p> <p>Initial Wellhead Pressure: 2,572 psi Formation breakdown: 19.7 bpm @ 5,068 psi.</p> <p>Increased rate to 60 bpm. Started stage with Slickwater w/FR . Pumped 690 bbls of PAD. Step 40/70 Brown Sand from 0.25 ppg to 2 ppg. Flushed well with 493 bbls. Placed 100.0% prop in formation.</p> <p>AVG Rate: 60 bpm AVG Pressure: 5,932 psi MAX Rate: 60 bpm MAX Pressure: 7,692 psi</p> <p>Post-frac ISIP: 3,474 psi Frac Gradient: 0.838 psi/ft</p> <p>LTR: 30,840 bbls TSIF: 719,129 lbs</p>	3.25
U_WOW	Lightning in the area. Rig to 38H and start frac treatment	1.25
WOZF	WSI - wait on frac treatment on the 38H	2
PERF	<p>RU Ark-La-Tex Wireline Services for stage 5 of 43. RIH and pumpdown with Schlumberger Diamondback - (3) Yellow Jacket Oil Tools ,3 1/8 Hollow carrier ,Owens 21.5 gram -SPD-3375-311NT perforating guns. Position and set CFP at 17,548 ft. Perforate intervals: 17,411 - 17,413, 17,471 - 17,473, 17,531 - 17,533. Total of 30 holes.</p> <p>POOH - Stand back wireline. Confirm all guns fired.</p> <p>Pump Down @ 16 bpm/ 4,750 psi. Line Speed: 307 ft/min.</p> <p>Used 475 bbls.</p> <p>FTR Total 31,315 bbls.</p>	2

Report #: 10 Daily Operation: 5/10/2015 06:00 - 5/11/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	034462

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
91	10	0.0			

Operations Summary				
PPS Fleet 3:	0.0	hrs	0.0	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	0.0	hrs	1.5	Cuml hrs

FTR: 53,728 BBLS
LTR: 53,728 BBLS
RT: 0 BBLS
CR: 0 BBLS
TSIF: 1,257,147 LBS

Days: Jeremiah Trejo/ Will Lemons / Kurt Kauffman
Nights: Jon Booher/ Kevin Armstrong

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Remarks
Frac stage/s: 5-6-7
Perf stage/s: 6-7-8

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM discussed job assignments and hazzards	0.5
PSI_TEST	PPS prime up pressure test iron and pumps	1

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 5 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 179872 lbs 40/70 sand & 7169 bbls of Slick Water down 5.5" 20# csg.</p> <p>Formation broke @ 4752 psi @ 20 bpm Acid on form @ 20 bpm 4626 psi Acid clear @ 20 bpm 4312psi</p> <p>Increased rate to 60 bpm. Started stage Pumped 690 bbl pad. Ramped 40/70 sand from 0.25 ppg to 2.0 ppg. Flushed well with 486 bbls.</p> <p>Ending rate 60 bpm @ 5737 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 56.8 bpm Avg. psi: 5670 psi Max. rate: 61.9 bpm Max. psi: 8424 psi End of job ISIP 3598 FG: 0.851</p> <p>FTR: 38484 CR: 0 LTR: 38484 TSIF: 899001</p>	2
PERF	<p>RU Arklatex WL for Stage# 6 of 43 . RIH & pump down Schlumberger CFP & (3) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 17368. Perforate at intervals: 17351-17353, 17291-17293, 17231-17233, Total of 30 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4940psi, 340 ft/min, 1300 Line Ten.</p> <p>TBP: 519 BBL FTR: 39003 BBL CR: 0 BBL LTR: 39003 BBL TSIF: 899001 LBS</p>	2.75
PSI_TEST	PPS prime up pressure test pumps and iron	1
STIM	<p>Frac Stage 6 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 178497 lbs 40/70 sand & 6926 bbls of slick water down 5.5" 20# csg.</p> <p>Formation broke @ 4296 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4291 psi Acid clear @ 20 bpm 4080psi</p> <p>Increased rate to 60 bpm. Started stage Pumped 690 bbl pad. Ramped 40/70 sand from 0.25 ppg to 2 ppg. Flushed well with 482 bbls. Ending rate 60 bpm @ 5641 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 57 bpm Avg. psi: 5543 psi Max. rate: 62.4 bpm Max. psi: 8365 psi End of job ISIP 3590 FG: 0.85</p> <p>FTR: 45929 CR: 0 LTR: 45929 TSIF: 1077498</p>	2.25
PERF	<p>RU Arklatex WL for Stage# 7 of 41 . RIH & pump down Schlumberger CFP & (3) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 17188. Perforate at intervals: 17171-17173, 17111-17113, 17051-17053 Total of 30 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4850psi, 340 ft/min, 1350 Line Ten.</p> <p>TBP: 471 BBL FTR: 46400 BBL CR: 0 BBL LTR: 46400 BBL TSIF: 1077498 LBS</p>	2
WOZF	WSI - wait on frac order	1.5
PSI_TEST	Pressure testing treating lines and pressure relief valves (spring and nitrogen). Repair leaks, Reset manual relief valve.	2.5

PIONEER

NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage: 7 of 43. Test stack to 9,500 PSI. Monitor annulus pressure, 1,470 psi. PPS fracture treat perforations per schedule with 24 bbls of 7.5% HCl, 179,649 lbs of 40/70 Brown Sand and 6,838 bbls of Slickwater w/FR down 5.5 casing.</p> <p>Initial Wellhead Pressure: 2,743 psi</p> <p>Formation breakdown: 20.1 bpm @ 4,451 psi.</p> <p>Increased rate to 60 bpm. Started stage with Slickwater w/FR , cP @ degrees F. Pumped 690 bbls of PAD. Step 40/70 Brown Sand from 0.25 ppg to 2 ppg. Flushed well with 481 bbls. Placed 99.8% prop in formation.</p> <p>AVG Rate: 60 bpm AVG Pressure: 5,794 psi MAX Rate: 61 bpm MAX Pressure: 6,868 psi</p> <p>Post-frac ISIP: 3,242 psi Frac Gradient: 0.811 psi/ft</p> <p>LTR: 53,238 bbls TSIF: 1,257,147 lbs</p>	2.25
PERF	<p>RU Ark-La-Tex Wireline Services for stage 8 of 43. RIH and pumpdown with Schlumberger Diamondback - (3) Yellow Jacket Oil Tools ,3 1/8 Hollow carrier ,Owens 21.5 gram -SPD-3375-311NT perforating guns. Position and set CFP at 17,008 ft. Perforate intervals: 16,871 - 16,873, 16,931 - 16,933, 16,991 - 16,993, . Total of 30 holes.</p> <p>POOH - Stand back wireline. Confirm all guns fired.</p> <p>Pump Down @ 16 bpm/ 4,800 psi. Line Speed: 337 ft/min.</p> <p>Used 490 bbls.</p> <p>FTR Total 53,728 bbls.</p>	2
WSI	WSI - wait on frac order	3
PSI_TEST	Begin pressure testing treating lines	0.5
STIM	Stage 8 Frac	0.75

Report #: 11 Daily Operation: 5/11/2015 06:00 - 5/12/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	034462

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
92	11	0.0			

Operations Summary

PPS Fleet 3:	0.0	hrs	0.0	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	0.0	hrs	1.5	Cuml hrs

FTR: 77,701 BBLS
 LTR: 77,271 BBLS
 RT: 430 BBLS
 CR: 430 BBLS
 TSIF: 1,856,910 LBS

Days: Jeremiah Trejo/ Will Lemons / Kurt Kauffman
 Nights: Jon Booher/ Kevin Armstrong

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Remarks

Frac stage/s: 8-9-10
 Perf stage/s: 9-10

Stage 10 - Pressured out on 2.0 ppa , flowback well, reflush. Continue operations at report time.

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 8 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 180782 lbs 40/70 sand & 6826 bbls of slick water down 5.5" 20# csg. Formation broke @ 4650 psi @ 20 bpm</p> <p>Acid on form @ 57 bpm 6188 psi Acid clear @ 60 bpm 5858psi</p> <p>Increased rate to 60 bpm. Started stage Pumped 690 bbl pad. Ramped 40/70 sand from 0.25 ppg to 2 ppg. Flushed well with 478 bbls. Ending rate 60 bpm @ 5864 psi. Placed 100% prop iin formation. Avg. rate: 56.6 bpm Avg. psi: 5573 psi Max. rate: 62.4 bpm Max. psi: 7170 psi End of job ISIP 3348 FG: 0.822</p> <p>FTR: 60554 CR: 0 LTR: 60554 TSIF: 1437929</p> <p>Note safety meeting was held @ shift change with new crew @ 06:00</p>	1.5
PERF	<p>RU Arklatex WL for Stage# 9 of 41. RIH & pump down Schlumberger CFP & (3) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 16828. Perforate at intervals: 16811-16813, 16751-16753, 16691-16693. Total of 30 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4750psi, 300 ft/min, 800 Line Ten.</p> <p>TBP: 479 BBL FTR: 61033 BBL CR: 0 BBL LTR: 61033 BBL TSIF: 1437929 LBS</p>	2.5
WOZF	Wait on frac ops 38H	1
PSI_TEST	PPS prime up pressure test pumps and iron	0.75
STIM	<p>Frac Stage 9 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 178536 lbs 40/70 sand & 6873 bbls of slick water down 5.5" 20# csg. Formation broke @ 4403 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4338 psi Acid clear @ 20 bpm 4157psi</p> <p>Increased rate to 60 bpm. Started stage Pumped 690 bbl pad. Ramped 40/70 sand from 0.25 ppg to 2 ppg. Flushed well with 470 bbls. Ending rate 60 bpm @ 5591 psi. Placed 100% prop iin formation. Avg. rate: 57 bpm Avg. psi: 5530 psi Max. rate: 64.5 bpm Max. psi: 8553 psi End of job ISIP 5591 FG: 0.834</p> <p>FTR: 67906 CR: 0 LTR: 67906 TSIF: 1616465</p>	2
PERF	<p>RU Arklatex WL for Stage# 10 of 41. RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 16648. Perforate at intervals: 16631-16633, 16571-16573, 16511-16513, 16451-16453. Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4900psi, 300 ft/min, 800 Line Ten.</p> <p>TBP: 439 BBL FTR: 68346 BBL CR: 0 BBL LTR: 68346 BBL TSIF: 1616465 LBS</p>	2
WSI	WSI - Waiting on frac order	8
ZPM	Pump maintenance: 2 packings, 2 D rings, 2 bore seals, and seats and valves (3 units) - will start job with 12 of 12 pumps.	2.75

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage: 10 of 43. Test stack to 9,500 PSI. Monitor annulus pressure, 1,656 psi. PPS fracture treat perforations per schedule with 24 bbls of 7.5% HCl, 240,445 lbs of 30/50 Brown Sand and 8,763 bbls of Slickwater w/FR down 5.5 casing.</p> <p>Initial Wellhead Pressure: 2,631 psi</p> <p>Formation breakdown: 20.2 bpm @ 4,399 psi.</p> <p>Increased rate to 80 bpm. Started stage with Slickwater w/FR . Pumped 921 bbls of PAD. Step 30/50 Brown Sand from 0.25 ppg to 0.75 ppg with increase in pressure. Ran sweep first prior to 1.00 ppa stage. Resume sand stages 0.25 ppa and stepped concentration to 1.00 ppa. Pressure increase with decrease in total rate. Ran 2nd sweep, step prop conc from 0.25 to 2.00 ppa @ 60 - 65 bpm. Start flush and pressured out at 176 bbls (Sand volume in casing ~12,850 lbs)</p> <p>Flowback well (405 bbls) Re-flushed well with 657 bbls. Placed 95% prop in formation.</p> <p>AVG Rate: 69.4 bpm AVG Pressure: 8,122 psi MAX Rate: 80 bpm MAX Pressure: 9792 psi</p> <p>Post-frac ISIP: 3,893 psi Frac Gradient: 0.885 psi/ft</p> <p>FTR: 77,701 bbls RT: 430 bbls CR: 430 bbls LTR: 77,271 TSIF: 1,856,910 lbs</p>	3.5

Report #: 12 Daily Operation: 5/12/2015 06:00 - 5/13/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 034462	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
93	12	0.0			

Operations Summary					
PNR	4.0	hrs	4.0	Cuml hrs	
PPS Fleet 3:	0.0	hrs	0.0	Cuml hrs	
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs	
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs	
Archer Flowback:	0.0	hrs	0.0	Cuml hrs	
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs	
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs	
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs	
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs	
Weather:	0.0	hrs	1.5	Cuml hrs	
FTR:96,520 BBLs					
LTR: 96.090 BBLs					
RT: 430 BBLs					
CR: 430 BBLs					
TSIF: 2,339,466 LBS					
Days: Jeremiah Trejo/ Will Lemons / Kurt Kauffman					
Nights: Jon Booher/ Kevin Armstrong					
Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280					

Remarks
 Frac stage/s: 11, 12
 Perf stage/s: 11, 12, 13

Time Log Summary		
Operation	Com	Dur (hr)
U_DHP	<p>Reflush wellbore due to high pump pressures during frac. Which resulted in shut down before wellbore flushed after last sand stage.</p> <p>Flowed back 430 bbls from wellbore.</p> <p>Flushed wellbore with 653 bbls.</p>	1

Time Log Summary		
Operation	Com	Dur (hr)
PERF	<p>RU Arklatex WL for Stage# #11 of 43. RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 6 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 16408. Perforate at intervals: 16391-16393, 16331-16333, 16271-16273, 16211-16213. Total of 30 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /5000psi, 300 ft/min, 800 Line Ten.</p> <p>TBP: 430 BBL FTR: 78131 BBL CR: 430 BBL LTR: 77701 BBL TSIF: 1,856,910 LBS</p>	2
STIM	<p>Frac Stage #11 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 241661 lbs 30/50 sand & 8404 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4256 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4093 psi Acid clear @ 20 bpm 4216psi</p> <p>Increased rate to 80 bpm. Pumped 921 bbl pad. Ramped 30/50 sand from 0.5 ppg to 3 ppg. Flushed well with 460 bbls. Ending rate 77 bpm @ 7271 psi. Placed 100% prop iin formation. Avg. rate: 73.3 bpm Avg. psi: 7818 psi Max. rate: 83.1 bpm Max. psi: 9125 psi End of job ISIP 3322 FG: 0.819</p> <p>FTR: 86535 CR: 430 LTR: 86105 TSIF: 2098571</p>	2.75
PERF	<p>RU Arklatex WL for Stage# #12 of 43. RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 6 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 16180. Perforate at intervals: 16151-16153, 16091-16093, 16031-16033, 15971-15973. Total of 30 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4470psi, 300 ft/min, 800 Line Ten.</p> <p>TBP: 430 BBL FTR: 86965 BBL CR: 430 BBL LTR: 86535 BBL TSIF: 2098571 LBS</p>	2
WOZF	Waiting on Frac Ops on 38H.	7
U_ZPM	11114 - replace D ring, 11097 - run seats and valves. Start priming pumps. Replace manual pressure relief valve. Adjust set pressure several times to correct setting. Replace valve on prime line. 11087 - 4 inch hose to pump kinked inside hose cover, (sanded off) wouldn't allow proper prime up. Manual set @ 9,787 psi. Nitrogen relief valve set at 9,700 psi.	3.25
STIM	<p>Frac Stage: 12 of 43. Test stack to 9,500 PSI. Monitor annulus pressure, 1,473 psi. PPS fracture treat perforations per schedule with 24 bbls of 7.5% HCl, 240,895 lbs of 30/50 Brown Sand and 9,148 bbls of Slickwater w/FR down 5.5 casing.</p> <p>Initial Wellhead Pressure: 2,641 psi</p> <p>Formation breakdown: 19.3 bpm @ 4,715 psi.</p> <p>Increased rate to 80 bpm. Started stage with Slickwater w/FR. Pumped 921 bbls of PAD. Step 30/50 Brown Sand from 0 ppg to 2 ppg. Flushed well with 678 bbls. Placed 100% prop in formation.</p> <p>AVG Rate: 70.7 bpm AVG Pressure: 7,269 psi MAX Rate: 80 bpm MAX Pressure: 8,461 psi</p> <p>Post-frac ISIP: 3,187 psi Frac Gradient: 0.804 psi/ft</p> <p>LTR: 96,113 bbls TSIF: 2,339,466 lbs</p> <p>Note; Adjusted rates and pump scheduled as needed. Ran extended stages 0.25 ppa to 1.25 ppa, Sweep with pressure increase, continued treatment and stepped prop conc from 0.25 to 2.00 ppa. Started flush, with 2.00 ppa at the perms lost blender pressure to pumps, regained blender pressure and flushed well (51 bpm @ 5847 psi, decrease rate to 20.7 bpm to verify pump down rate and pressure).</p>	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
PERF	RU Ark-La-Tex Wireline Services for stage 13 of 43. RIH and pumpdown with Schlumberger Diamondback - (4) Hunter Titan ,3 1/8 Hollow carrier ,Owens 21.5 gram -SPD-3375-311NT perforating guns. Position and set CFP at 15,928 ft. Perforate intervals: 15,731 - 15,733, 15,791 - 15,793, 15,851 - 15,853, 15,911 - 15,913, . Total of 40 holes. POOH - Stand back wireline. Confirm all guns fired. Pump Down @ 16 bpm/ 4,800 psi. Line Speed: 320 ft/min. Used 407 bbls. FTR Total 96,520 bbls.	2.5
WOZF	WSI - wait on frac order	1.25

Report #: 13 Daily Operation: 5/13/2015 06:00 - 5/14/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 034462	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
94	13	0.0			

Operations Summary
Frac stage/s: 13
Perf stage/s: 14

Remarks

PNR	4.0	hrs	4.0	Cuml hrs
PPS Fleet 3:	8.75	hrs	8.75	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	0.0	hrs	1.5	Cuml hrs

FTR: 106606 BBLs
LTR: 106175 BBLs
RT: 430 BBLs
CR: 430 BBLs
TSIF: 2,579,247 LBS

Days: Dean Spurlin / Cory Hendon / Rick Maxwell
Nights: Jeremiah Trejo/ Will Lemons

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
WSI	Waiting on Frac Ops.	5.5
STIM	Frac Stage: 13 of 43. Test stack to 9,500 PSI. Monitor annulus pressure, 1,473 psi. PPS fracture treat perforations per schedule with 24 bbls of 7.5% HCl, 239,781 lbs of 30/50 Brown Sand and 9675 bbls of Slickwater w/FR down 5.5 casing. Initial Wellhead Pressure: 2547 psi. Formation breakdown: 22.2 bpm @ 4349 psi. Increased rate to 80 bpm. Started stage with Slickwater w/FR. Pumped 921 bbls of PAD. Step 30/50 Brown Sand from 0 ppg to 2 ppg. Flushed well with 453 bbls. Placed 100% prop in formation. AVG Rate: 72.2 bpm AVG Pressure: 7486 psi MAX Rate: 81.6 bpm MAX Pressure: 9243 psi Post-frac ISIP: 3,200 psi Frac Gradient: 0.828 psi/ft LTR: 105,765 bbls TSIF: 2,579,247 lbs	2.5
WSI	WSI Frac Pump maintenance and FMC Greasing Frac Stacks.	1

Time Log Summary		
Operation	Com	Dur (hr)
PERF	RU Ark-La-Tex Wireline Services for stage 14 of 43. RIH and pumpdown with Schlumberger Diamondback - (4) Hunter Titan ,3 1/8 Hollow carrier ,Owens 21.5 gram -SPD-3375-311NT perforating guns. Position and set CFP at 15,688 ft. Perforate intervals: 15,671 - 15,673, 15,611 - 15,613, 15,551 - 15,553, 15,488 - 15,490, . Total of 40 holes. POOH - Stand back wireline. Confirm all guns fired. Pump Down @ 16 bpm/ 4,500 psi. Line Speed: 320 ft/min. Used 410 bbls. LTR Total 106,175 bbls.	2.5
SAFETY	PJSM discuss overhead and hydration issues	0.5
PSI_TEST	PPS Swap iron prime up// Blender and Hydration Developed issues	1
U_PEPXD	PPS working on leak on blender and swapping Hydration unit out due to mechanical issues// Installed new N2 pop off assymlby	8.75
STIM	Frac stg 14 @ time of report	2.25

Report #: 14 Daily Operation: 5/14/2015 06:00 - 5/15/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 034462	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
95	14	0.0			

Operations Summary
 Frac stage/s: 14-15
 Perf stage/s: 15-16

 @ 834 bbls into the 1 ppg stg on stg 16 pressured out placed 131,150 lbs of prop in formation// Flowing well back @ report time

Remarks					
PNR	0.0	hrs	4.0	Cuml hrs	
PPS Fleet 3:	0.0	hrs	8.75	Cuml hrs	
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs	
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs	
Archer Flowback:	0.0	hrs	0.0	Cuml hrs	
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs	
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs	
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs	
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs	
Weather:	0.0	hrs	1.5	Cuml hrs	
FTR: 125438 BBLS LTR: 125008 BBLS RT: 430 BBLS CR: 430 BBLS TSIF: 3,068,439 LBS Days: Dean Spurlin / Cory Hendon / Rick Maxwell Nights: Jeremiah Trejo/ Will Lemons Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280					

Time Log Summary		
Operation	Com	Dur (hr)
STIM	Frac Stage: 14 of 43. Test stack to 9,500 PSI. Monitor annulus pressure, 1,473 psi. PPS fracture treat perforations per schedule with 24 bbls of 7.5% HCl, 239,781 lbs of 30/50 Brown Sand and 9059 bbls of Slickwater w/FR down 5.5 casing. Initial Wellhead Pressure: 2503 psi. Formation breakdown: 20 bpm @ 4769 psi. Increased rate to 75 bpm. Started stage with Slickwater w/FR. Pumped 921 bbls of PAD. Step 30/50 Brown Sand from 0 ppg to 2 ppg. Flushed well with 444 bbls. Placed 100% prop in formation. AVG Rate: 63.9 bpm AVG Pressure: 6752 psi MAX Rate: 75.9 bpm MAX Pressure: 8614 psi Post-frac ISIP: 3,070 psi Frac Gradient: 0.790 psi/ft LTR: 115,234 bbls TSIF: 2,825,290 lbs	0.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
PERF	<p>RU Ark-La-Tex Wireline Services for stage 15 of 43. RIH and pumpdown with Schlumberger Diamondback - (4) Hunter Titan ,3 1/8 Hollow carrier ,Owens 21.5 gram -SPD-3375-311NT perforating guns. Position and set CFP at 15,455 ft. Perforate intervals: 15,431 - 15,433, 15,371 - 15,373, 15,311 - 15,313, 15,251 - 15,253, . Total of 40 holes.</p> <p>POOH - Stand back wireline. Confirm all guns fired. Pump Down @ 16 bpm/ 5,300 psi. Line Speed: 320 ft/min.</p> <p>Used 423 bbls.</p> <p>LTR Total 115,657 bbls.</p>	3
WSI	Waiting on Frac Ops.	2.25
STIM	<p>Frac Stage: 15 of 43. Test stack to 9,500 PSI. . PPS fracture treat perforations per schedule with 24 bbls of 7.5% HCl, 243,149 lbs of 30/50 Brown Sand and 9,051 bbls of Slickwater w/FR down 5.5 casing.</p> <p>Initial Wellhead Pressure: 2,627 psi.</p> <p>Formation breakdown: 20 bpm @ 4,243 psi.</p> <p>Increased rate to 80 bpm. Started stage with Slickwater w/FR. Pumped 921 bbls of PAD. Step 30/50 Brown Sand from 0 ppg to 1.75 ppg. Flushed well with 442 bbls. Placed 100% prop in formation.</p> <p>AVG Rate: 71.9 bpm AVG Pressure: 6,922 psi MAX Rate: 82.3 bpm MAX Pressure: 9,246 psi</p> <p>Post-frac ISIP: 3,342 psi Frac Gradient: 0.82 psi/ft</p> <p>FTR: 125,578 bbls CR: 430 bbls LTR: 125,148 bbls TSIF: 3,068,439 lbs.</p>	2
PERF	<p>RU Ark-La-Tex Wireline Services for stage 16 of 43. RIH and pumpdown with Schlumberger Diamondback - (4) Hunter Titan ,3 1/8 Hollow carrier ,Owens 21.5 gram -SPD-3375-311NT perforating guns. Position and set CFP at 15,208 ft. Perforate intervals: 15,011 - 15,013, 15,076 - 15,078, 15,131 - 15,133, 15,191 - 15,193, . Total of 40 holes.</p> <p>POOH - Stand back wireline. Confirm all guns fired. Pump Down @ 16 bpm/ 5,850 psi. Line Speed: 300 ft/min.</p> <p>Used 300 bbls.</p> <p>LTR Tota: 125,456 bbls.</p>	2
WSI	Wait on PPS to change out blender and frac stage #14 on the #38// PJSM @ 18:00 with new crew and personel discussed hydration and walking surfaces	11.5
STIM	At 834 bbls into the 1 ppg stg pressured out// Flowing back @ report time	3

Report #: 15 Daily Operation: 5/15/2015 06:00 - 5/16/2015 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 034462
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Days From Spud (days) 96	Days on Location (days) 15	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
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Operations Summary
 Frac stage/s: 16-17-18
 Perf stage/s: 17-18-19

Remarks					
PNR	0.0	hrs	4.0	Cuml hrs	
PPS Fleet 3:	0.0	hrs	8.75	Cuml hrs	
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs	
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs	
Archer Flowback:	0.0	hrs	0.0	Cuml hrs	
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs	
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs	
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs	
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs	
Weather:	0.0	hrs	1.5	Cuml hrs	

FTR: 153,667 BBLS
 LTR: 152,537 BBLS
 RT: 700 BBLS
 CR: 1130 BBLS
 TSIF: 3,681,741 LBS

Days: Dean Spurlin / Cory Hendon / Rick Maxwell
 Nights: Jeremiah Trejo/ Will Lemons

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
STIM	Talked with Engineer Marvin Baugh and was instructed to call stg 16 complete and after flow back and flush go ahead Plug&Perf and move onto next stage//Fraced stg 16 as follows Frac Stage 16 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 131150 lbs 30/50 sand & 7593 bbls of Slick Water fluid down 5.5" 20# csg. Formation broke @ 3849 psi @ 20 bpm Acid on form @ 20 bpm 3814 psi Acid clear @ 20 bpm 3749psi Increased rate to 75 bpm. Started stage Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 1 ppg. // Well pressured put 834 bbls into the 1 ppg stg Placed 54% prop iin formation. Avg. rate: 61.2 bpm Avg. psi: 5712 psi Max. rate: 75 bpm Max. psi: 9710 psi End of job ISIP 3077 FG: 0.79 FTR: 133031 CR: 430 LTR: 132601 TSIF: 3199589	0.25
FLWTST	Flowing well back from screen out stg 16 Flowed back total of 700 Bbls. Injection test good. End rate and pressure: 40 @ 4600. WL instructed to move up hole - plug and perf for stage 17.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
PERF	<p>RU Ark-La-Tex Wireline Services for stage 17 of 43. RIH and pumpdown with Schlumberger Diamondback - (4) Hunter Titan ,3 1/8 Hollow carrier ,Owens 21.5 gram -SPD-3375-311NT perforating guns. Position and set CFP at 14,968 ft. Perforate intervals: 14,771 - 14,773, 14,831 - 14,833, 14,891 - 14,893, 14,943 - 14,945, . Total of 40 holes.</p> <p>POOH - Stand back wireline. Confirm all guns fired. Pump Down @ 16 bpm/ 4600 psi. Line Speed: 300 ft/min.</p> <p>Used 380 bbls.</p> <p>LTR Total: 134,234 bbls.</p>	1.75
WOZF	Waiting on Frac Ops. (38H)	8
STIM	<p>Frac Stage 17 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 239800 lbs 30/50 sand & 9878 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4289 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4301 psi Acid clear @ 20 bpm 4017psi</p> <p>Increased rate to 80 bpm. Started stage w/Slick water till .75 ppg stage then swaitched over to 10# gel equivalent loading, 12 cp. @ 77 *F. Gel Ph 7.2. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 431 bbls. Ending rate 80 bpm @ 6377 psi. Placed 100% prop iin formation. Avg. rate: 79.6 bpm Avg. psi: 6670 psi Max. rate: 80 bpm Max. psi: 7300 psi End of job ISIP 3427 FG: 0.831</p> <p>FTR: 144112 CR: 1130 LTR: 142982 TSIF: 3439389</p>	2.5
SAFETY	PJSM discussed pressure and overhead issues	0.25
PERF	<p>RU Arklatex WL for Stage# 18 of 41 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 14726. Perforate at intervals: 14708-14710, 14646-14648, 14591-14593,14531-14533, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4420psi, 325 ft/min, 1103 Line Ten.</p> <p>TBP: 335 BBL FTR: 144447 BBL CR: 1130 BBL LTR: 143317 BBL TSIF: 3439389 LBS</p>	2
WOZF	Waiting on Frac Ops. (38H)	1.25
PSI_TEST	PPS prime up pressure test pumps and iron// reset N2 pop offs	1.25
STIM	<p>Frac Stage 18 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 242352 lbs 30/50 sand & 8894 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4166 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4092 psi Acid clear @ 20 bpm 3937psi</p> <p>Increased rate to 80 bpm. Started stage w/Slick water thru .25 ppg stg switched to 10# gel equivalent loading, 11 cp. @ 77 *F. Gel Ph 7.89 @ .50 ppg stg carried thru remaining stages// Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 422 bbls. Ending rate 80 bpm @ 6489 psi. Placed 100% prop iin formation. Avg. rate: 80 bpm Avg. psi: 6377 psi Max. rate: 80 bpm Max. psi: 6594 psi End of job ISIP 3354 FG: 0.823</p> <p>FTR: 153341 CR: 1130 LTR: 152211 TSIF: 3681741</p>	2

PIONEER

NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
PERF	RU Arklatex WL for Stage# 19 of 41 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 14492. Perforate at intervals: 14471-14473, 14411-14413, 14351-14353,14291-14293, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4630psi, 325 ft/min, 945 Line Ten. TBP: 326 BBL FTR: 153667 BBL CR: 1130 BBL LTR: 152537 BBL TSIF: 3681741 LBS	2
WOZF	Waiting on Frac Ops. (38H) @ report time	1.25

Report #: 16 Daily Operation: 5/16/2015 06:00 - 5/17/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 034462	
Days From Spud (days) 97	Days on Location (days) 16	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

Operations Summary
Frac stage/s:19-20
Perf stage/s: 20-21

Remarks	PNR	PPS Fleet 3:	Ark-La-Tex Wireline:	PrimePack Crane:	Archer Flowback:	Predator Pressure Eqmt:	FMC Surface Systems:	Select Water Transfer:	Schlumberger Completions:	Weather:
	0.0 hrs	0.0 hrs	0.0 hrs	0.0 hrs	0.0 hrs	0.0 hrs	0.0 hrs	0.0 hrs	0.0 hrs	0.0 hrs
	Cuml hrs	Cuml hrs	Cuml hrs	Cuml hrs	Cuml hrs	Cuml hrs	Cuml hrs	Cuml hrs	Cuml hrs	Cuml hrs
	4.0	8.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5

FTR: 172149 BBLs
LTR: 171019 BBLs
RT: 0.0 BBLs
CR: 1130 BBLs
TSIF: 4,159,856 LBS

Days: Dean Spurlin / Cory Hendon / Rick Maxwell
Nights: Jeremiah Trejo/ Will Lemons

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	Held PJSM w/ all crews.	0.5
WSI	Wait on frac Ops.	3
STIM	Frac Stage 19 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 241,573 lbs 30/50 sand & 8897 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4087 psi @ 20 bpm Acid on form @ 20 bpm 4300 psi Acid clear @ 50 bpm 5074 psi Increased rate to 80 bpm. Started stage w/Slick water thru .25 ppg stg switched to 10# gel equivalent loading, 11 cp. @ 77 *F. Gel Ph 7.3 @ .50 ppg stg carried thru remaining stages// Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 417 bbls. Ending rate 80 bpm @ 6315 psi. Placed 100% prop iin formation. Avg. rate: 76.8 bpm Avg. psi: 6187 psi Max. rate: 81.6 bpm Max. psi: 6502 psi End of job ISIP 3475 FG: 0.837 FTR: 162564 CR: 1130 LTR: 161434 TSIF: 3,923,314	2.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
PERF	<p>RU Arklatex WL for Stage# 20 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 14,248. Perforate at intervals: 14231-14233, 14171-14173, 14120-14122,14051-14053, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4630psi, 325 ft/min, 945 Line Ten.</p> <p>TBP: 320 BBL FTR:162884 BBL CR: 1130 BBL LTR: 161754 BBL TSIF: 3,923,314 LBS</p>	1.5
WSI	WSI Waiting on Frac Ops.	2.75
STIM	<p>Frac Stage 20 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 236542 lbs 30/50 sand & 8956 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 3940 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 3900 psi Acid clear @ 50 bpm 4850psi</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 6 cp. @ 74 *F. Gel Ph 7.2. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 416 bbls. Ending rate 77 bpm @ 6439 psi. Placed 100% prop iin formation. Avg. rate: 77.9 bpm Avg. psi: 6381 psi Max. rate: 80 bpm Max. psi: 7045 psi End of job ISIP 3305 FG: 0.817</p> <p>FTR: 171840 CR: 1130 LTR: 170710 TSIF: 4159856</p>	2
SAFETY	PJSM talked about weather and heat	0.25
PERF	<p>RU Arklatex WL for Stage# 21 of 41 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 14012. Perforate at intervals: 13996-13998, 13931-13933, 13876-13878,13811-13813, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4340psi, 325 ft/min, 973 Line Ten.</p> <p>TBP: 309 BBL FTR: 172149 BBL CR: 1130 BBL LTR: 171019 BBL TSIF: 4159856 LBS</p>	2
WSI	WSI Waiting on Frac Ops// PPS is swapping out data vans due to etech issues before starting on the 38H	9.5

Report #: 17 Daily Operation: 5/17/2015 06:00 - 5/18/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 034462
Days From Spud (days) 98	Days on Location (days) 17	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig

Operations Summary
 Frac stage/s: 21
 Perf stage/s: 22
 Frac stg 22 @ time of report

Remarks					
PNR	0.0	hrs	4.0	Cum	hrs
PPS Fleet 3:	6.5	hrs	15.25	Cum	hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cum	hrs
PrimePack Crane:	0.0	hrs	0.0	Cum	hrs
Archer Flowback:	0.0	hrs	0.0	Cum	hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cum	hrs
FMC Surface Systems:	0.0	hrs	0.0	Cum	hrs
Select Water Transfer:	0.0	hrs	0.0	Cum	hrs
Schlumberger Completions:	0.0	hrs	0.0	Cum	hrs
Weather:	0.0	hrs	1.5	Cum	hrs

FTR: 181332 BBLs
 LTR: 180202 BBLs
 RT: 0.0 BBLs
 CR: 1130 BBLs
 TSIF: 4,398,846 LBS

Days: Dean Spurlin / Cory Hendon / Rick Maxwell
 Nights: Jeremiah Trejo / Will Lemons

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
WOZF	Waiting on Frac Ops.	6.5
STIM	Open Well. Got acid job done on Stage 21. Plumbing on Suction side of blender started leaking. Closed Well In.	0.5
U_PEPXD	Shut Down waiting on welder to arrive and fix plumbing on suction side of blender.	6.5
STIM	Frac Stage 21 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 238990 lbs 30/50 sand & 8873 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4743 psi @ 20 bpm Acid on form @ 20 bpm 3988 psi Acid clear @ 50 bpm 5065psi Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 6 cp. @ 77 *F. Gel Ph 7.2. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 407 bbls. Ending rate 80 bpm @ 6700 psi. Placed 100% prop iin formation. Avg. rate: 78.8 bpm Avg. psi: 6628 psi Max. rate: 80 bpm Max. psi: 7760 psi End of job ISIP 3473 FG: 0.836 FTR: 181022 CR: 1130 LTR: 179892 TSIF: 4398846	2
SAFETY	PJSM discussed overhead and trip hazzards	0.25
PERF	RU Arklatex WL for Stage# 22 of 41 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 13768. Perforate at intervals: 13751-13753, 13691-13693, 13631-13633,13568-13570, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4400psi, 325 ft/min, 896 Line Ten. TBP: 310 BBL FTR: 181332 BBL CR: 1130 BBL LTR: 180202 BBL TSIF: 4398846 LBS	2

PIONEER

NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
WOZF	Waiting on Frac Ops.	3.75
STIM	Frac stg 22 @ time of report	2.5

Report #: 18 Daily Operation: 5/18/2015 06:00 - 5/19/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 034462	
Days From Spud (days) 99	Days on Location (days) 18	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

Operations Summary
 Frac stage/s: 22-23-24-25
 Perf stage/s: 23-24-25

Remarks				
PNR	0.0	hrs	4.0	Cuml hrs
PPS Fleet 3:	0.0	hrs	15.25	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	0.0	hrs	1.5	Cuml hrs

FTR: 217657 BBLs
 LTR: 216527 BBLs
 RT: 0.0 BBLs
 CR: 1130 BBLs
 TSIF: 5,359,456 LBS

Days: Dean Spurlin / Cory Hendon / Rick Maxwell
 Nights: Jeremiah Trejo / Will Lemons

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
STIM	Frac Stage 22 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5% HCL, 240,046 lbs 30/50 sand & 8994 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 5160 psi @ 20 bpm Acid on form @ 20 bpm 4465 psi Acid clear @ 20 bpm 4157 psi Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 6 cp. @ 77 *F. Gel Ph 7.5. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 401 bbls. Ending rate 80 bpm @ 6280 psi. Placed 100% prop iin formation. Avg. rate: 73.9 bpm Avg. psi: 6039 psi Max. rate: 81.5 bpm Max. psi: 6665 psi End of job ISIP 3527 FG: 0.843 FTR: 190,326 CR: 1130 LTR: 189,196 TSIF: 4,638,892	0.25
PERF	RU Arklatex WL for Stage# 23 of 41 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 13538. Perforate at intervals: 13511-13513, 13451-13453, 13391-13393,13331-13333, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4400psi, 325 ft/min, 896 Line Ten. TBP: 275 BBL FTR: 190601 BBL CR: 1130 BBL LTR: 189471 BBL TSIF: 4,638,892 LBS	1.75
WOZF	Waiting on Frac opts.,	3.5

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 23 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5% HCL, 239,688 lbs 30/50 sand & 8,823 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4,154 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 6 cp. @ 77 *F. Gel Ph 7.0. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 396 bbls. Ending rate 80 bpm @ 8,790 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 79.6 bpm Avg. psi: 6,659 psi Max. rate: 82.3 bpm Max. psi: 7,756 psi End of job ISIP: 3,308 psi. FG: 0.82</p> <p>FTR: 199,149 BBLS CR: 1130 BBLS LTR: 198,019 BBLS TSIF: 4,878,580 BBLS</p>	2
PERF	<p>RU Arklatex WL for Stage# 24 of 41 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 13,288. Perforate at intervals: 13,271-13,273, 13,211-13,213, 13,151-13,153,13,091-13,093, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4300 psi, 325 ft/min, 896 Line Ten.</p> <p>TBP: 265 BBLS FTR: 199,414 BBLS CR: 1130 BBLS LTR: 198,284 BBLS TSIF: 4,878,580 BBLS</p>	2
WSI	Shut well in waiting on frac ops on the 38H.	1.25
WOF	Grease wellhead vavles.	1.5
SAFETY	PJSM discussed weather and comunication	0.5
PSI_TEST	PPS prime up pressure test pumps and iron// set N2 pop offs	1
STIM	<p>Frac Stage 24 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 240877 lbs 30/50 sand & 8815 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4341 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4330 psi Acid clear @ 20 bpm 4208psi</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 65 *F. Gel Ph 7.2. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 391 bbls. Ending rate 80 bpm @ 6972 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 72.7 bpm Avg. psi: 6329 psi Max. rate: 82 bpm Max. psi: 7384 psi End of job ISIP 3464 FG: 0.835</p> <p>FTR: 208504 CR: 1130 LTR: 207374 TSIF: 5119457</p>	2.25
PERF	<p>RU Arklatex WL for Stage# 25 of 41 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 13048. Perforate at intervals: 13031-13033, 12971-12973, 12911-12913,12851-12853, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4560psi, 345 ft/min, 870 Line Ten.</p> <p>TBP: 253 BBL FTR: 208757 BBL CR: 1130 BBL LTR: 207627 BBL TSIF: 5119457 LBS</p>	2
WOZF	Waiting on Frac opts.,	2
PSI_TEST	PPS pressure test pumps and iron	1

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 25 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 239999 lbs 30/50 sand & 8900 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4216 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4216 psi Acid clear @ 20 bpm 4057psi</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 70 *F. Gel Ph 7.2. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 386 bbls. Ending rate 79 bpm @ 6896 psi. Placed 100% prop iin formation. Avg. rate: 68.6 bpm Avg. psi: 6541 psi Max. rate: 80.7 bpm Max. psi: 7746 psi End of job ISIP 3322 FG: 0.819</p> <p>FTR: 217657 CR: 1130 LTR: 216527 TSIF: 5359456</p>	2
PERF	Perf stg 26 @ time of report	1

Report #: 19 Daily Operation: 5/19/2015 06:00 - 5/20/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	034462

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
100	19	0.0			

Operations Summary
Frac stage/s: 26-27
Perf stage/s: 26-27-28

Remarks

PNR	0.0	hrs	4.0	Cuml hrs
PPS Fleet 3:	2.75	hrs	18.0	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	0.0	hrs	1.5	Cuml hrs

FTR: 236006 BBLS
LTR: 234876 BBLS
RT: 0.0 BBLS
CR: 1130 BBLS
TSIF: 5,837,720 LBS

Days: Dean Spurlin / Cory Hendon / Rick Maxwell
Nights: Jeremiah Trejo/ Will Lemons

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
PERF	<p>RU Arklatex WL for Stage# 26 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 12,811. Perforate at intervals: 12791-12793, 12731-12733, 12671-12673,12611-12613, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4700 psi, 345 ft/min, 975 Line Ten.</p> <p>TBP: 230 BBL FTR: 217,887 BBL CR: 1130 BBL LTR: 216,757 BBL TSIF: 5,359,456 LBS</p>	1
WOZF	Wait on Frac Ops. 38H Stage 23	6

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage 26 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5% HCL, 238,211 lbs 30/50 sand & 8947 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4319 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4320 psi Acid clear @ 50 bpm 5210 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 6 cp. @ 76 *F. Gel Ph 7.4. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 384 bbls. Ending rate 80 bpm @ 6615 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 79.6 bpm Avg. psi: 6573 psi Max. rate: 81 bpm Max. psi: 7373 psi End of job ISIP: 3539 FG: 0.844</p> <p>FTR: 226,834 CR: 1130 LTR: 225,704 TSIF: 5,597,667</p>	2.5
PERF	<p>RU Arklatex WL for Stage# 27 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 12,568. Perforate at intervals: 12551-12553, 12491-12493, 12431-12433,12371-12373, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4200 psi, 345 ft/min, 975 Line Ten.</p> <p>TBP: 225 BBL FTR: 227,059 BBL CR: 1130 BBL LTR: 225,929 BBL TSIF: 5,597,667 LBS</p>	1.5
WOZF	Wait on 38H Frac	1.5
SAFETY	PJSM discussed escape routes and fire extinguishers	0.5
PSI_TEST	PPS prime up pressure test pumps and iron set N2 pop offs	1
STIM	<p>Frac Stage 27 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 240053 lbs 30/50 sand & 8734 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4109 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4000 psi Acid clear @ 20 bpm 3918psi</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 72 *F. Gel Ph 7.2. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 374 bbls. Ending rate 81 bpm @ 6026 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 73.8 bpm Avg. psi: 5789 psi Max. rate: 82.9 bpm Max. psi: 7233 psi End of job ISIP 3379 FG: 0.83</p> <p>FTR: 235793 CR: 1130 LTR: 234663 TSIF: 5837720</p>	2
PERF	<p>RU Arklatex WL for Stage# 28 of 41 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 12328. Perforate at intervals: 12311-12313, 12251-12253, 12191-12193,12131-12133, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4220psi, 345 ft/min, 885 Line Ten.</p> <p>TBP: 213 BBL FTR: 236006 BBL CR: 1130 BBL LTR: 234876 BBL TSIF: 5837720 LBS</p>	2
WOZF	Wait on 38H Frac	2
PSI_TEST	PPS prime up pressure test pumps and iron	0.75

Time Log Summary

Operation	Com	Dur (hr)
STIM	Started stg 28 got thru acid and 893 bbls into stage had to shut down due to pump issues 2 D rings// 1 pump lost turbo// and packing causing to much loss of hydraulic horsepower//	0.5
U_PEPXD	Down time while PPS repairs pumps//	2.75

Report #: 20 Daily Operation: 5/20/2015 06:00 - 5/21/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 034462	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
101	20	0.0			

Operations Summary

Frac stage 28,29,
Perf. stage 29,30

Remarks

	hrs	Cuml hrs
PNR	3.5	4.0
PPS Fleet 3:	0.0	18.0
Ark-La-Tex Wireline:	0.0	0.0
PrimePack Crane:	0.0	0.0
Archer Flowback:	0.0	0.0
Predator Pressure Eqmt:	0.0	0.0
FMC Surface Systems:	0.0	0.0
Select Water Transfer:	0.0	0.0
Schlumberger Completions:	0.0	0.0
Weather:	0.0	1.5

FTR: 263,143 BBLs

LTR: 262,203 BBLs

RT: 0.0 BBLs

CR: 1130 BBLs

TSIF: 6,551,696 LBS

Days: Bruce Brassfield/ Brian Alsip

Nights: Dean Spurlin/ Cory Hendon/ Rick Maxwell

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
U_PEPXD	Down time while PPS repairs pumps//	1.5
STIM	<p>Frac Stage 28 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 240,410 lbs 30/50 sand & 9325 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4481 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4400 psi Acid clear @ 20 bpm 4200 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 72 *F. Gel Ph 7.2. Pumped 1440 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 368 bbls. Ending rate 80 bpm @ 6169 psi. Placed 100% prop iin formation. Avg. rate: 78.8 bpm Avg. psi: 5952 psi Max. rate: 81.2 bpm Max. psi: 6603 psi End of job ISIP 3468 FG: 0.83</p> <p>FTR: 245,331 CR: 1130 LTR: 244,201 TSIF: 6,078,130</p>	2
PERF	<p>RU Arklatex WL for Stage# 29 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 12,088. Perforate at intervals: 12071-12073, 12011-12013, 11951-11953,11891-11893, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4300 psi, 345 ft/min, 865 Line Ten.</p> <p>TBP: 200 BBL FTR: 245,531 BBL CR: 1130 BBL LTR: 244,401 BBL TSIF: 6,078,130 LBS</p>	1

Time Log Summary		
Operation	Com	Dur (hr)
WOZF	Wait on Frac Ops. on the 38H.	4.5
U_PEPXD	Replaced packing in 1 pump and put 1 pump in line.	2
STIM	<p>Frac Stage 29 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 237,111 lbs 30/50 sand & 8736 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4277 psi @ 20 bpm</p> <p>Acid on form @ 20 bpm 4630 psi Acid clear @ 40 bpm 4438 psi</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 72 *F. Gel Ph 7.2. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 364 bbls. Ending rate 80 bpm @ 6814 psi. Placed 100% prop iin formation. Avg. rate: 77.2 bpm Avg. psi: 6184 psi Max. rate: 80 bpm Max. psi: 6428 psi End of job ISIP: 3494 FG: 0.84</p> <p>FTR: 254,267 bbls CR: 1130 bbls LTR: 253,137 bbls TSIF: 6,315,241 lbs</p>	2
PERF	<p>RU Arklatex WL for Stage# 30 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 11,848. Perforate at intervals: 11,831-11,833, 11,771-11,773, 11,711-11,713,11,651-11,653, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4560 psi, 345 ft/min, 865 Line Ten.</p> <p>TBP: 208 BBL FTR: 254,475 BBL CR: 1130 BBL LTR: 253,345 BBL TSIF: 6,315,241 LBS</p>	1.5
WSI	Wait on frac ops on the #38H.	3.5
STIM	<p>Frac Stage 30 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 236,455 lbs 30/50 sand & 8668 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4468 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 65 *F. Gel Ph 7.2. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 359 bbls. Ending rate 80 bpm @ 6545 psi. Placed 100% prop iin formation. Avg. rate: 77.7 bpm Avg. psi: 6664 psi Max. rate: 80 bpm Max. psi: 7693 psi</p> <p>End of job ISIP: 3326 FG: 0.82</p> <p>FTR: 263,143 bbls CR: 1130 bbls LTR: 262,013 bbls TSIF: 6,551,696 lbs</p>	2
PERF	<p>RU Arklatex WL for Stage# 31 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 11,612. Perforate at intervals: 11,591-11,593, 11,531-11,533, 11,471-11,473,11,411-11,413, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm /4560 psi, 345 ft/min, 865 Line Ten.</p> <p>TBP: 333 bbls FTR: 263,143 bbls CR: 1130 bbls LTR: 262,203 bbls TSIF: 6,551,696 lbs</p>	2
WSI	Wait on frac ops on the 38H.	1
STIM	Fracing stage #31 at report time.	1

PIONEER

NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 21 Daily Operation: 5/21/2015 06:00 - 5/22/2015 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 034462
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Days From Spud (days) 102	Days on Location (days) 21	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
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Operations Summary
 Frac stage 31,32,33,34
 Perf. stage 32,33,34

Stage #34: Pumped approx 2,330 Bbls when C-Pump [coupling device] on blender failed. Flushed well with 343 Bbls. WSI - Waiting on replacement pump or blender. !5,000 lbs 30/50 pumped. Resumed job @ 0345.

Remarks					
PNR	0.0	hrs	4.0	Cumlr	hrs
PPS Fleet 3:	3.25	hrs	21.25	Cumlr	hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cumlr	hrs
PrimePack Crane:	0.0	hrs	0.0	Cumlr	hrs
Archer Flowback:	0.0	hrs	0.0	Cumlr	hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cumlr	hrs
FMC Surface Systems:	0.0	hrs	0.0	Cumlr	hrs
Select Water Transfer:	0.0	hrs	0.0	Cumlr	hrs
Schlumberger Completions:	0.0	hrs	0.0	Cumlr	hrs
Weather:	0.0	hrs	1.5	Cumlr	hrs

FTR: 299,643 BBLS
 LTR: 298,513 BBLS
 RT: 0.0 BBLS
 CR: 1130 BBLS
 TSIF: 7,513,416 LBS

Days: Bruce Brassfield/ Brian Alsip
 Nights: Dean Spurlin/ Cory Hendon/ Rick Maxwell

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
STIM	Frac Stage 31 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 15% HCL, 240,011 lbs 30/50 sand & 8856 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4200 psi @ 20 bpm Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 69 *F. Gel Ph 7.4. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 352 bbls. Ending rate 80 bpm @ 5897 psi. Placed 100% prop iin formation. Avg. rate: 78.3 bpm Avg. psi: 6014 psi Max. rate: 81.2 bpm Max. psi: 6691 psi End of job ISIP: 3616 FG: 0.85 FTR: 271,999 bbls CR: 1130 bbls LTR: 270,869 bbls TSIF: 6,791,707 lbs	1
PERF	RU Arklatex WL for Stage# 32 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 11,368. Perforate at intervals: 11,351-11,353, 11,291-11,293, 11,231-11,233,11,171-11,173, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4100 psi, 345 ft/min, 820 Line Ten. TBP: 155 bbls FTR: 272,344 bbls CR: 1130 bbls LTR: 271,214 bbls TSIF: 6,791,707 lbs	1.5
WSI	Wait on frac ops on the #38H.	3
U_PEPXD	Waiting on acid to be delivered to location.	1

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage 32 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 30 bbls 7.5% HCL, 241,921 lbs 30/50 sand & 9005 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4165 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 66 *F. Gel Ph 7.4. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2 ppg. Flushed well with 348 bbls. Ending rate 80 bpm @ 5702 psi. Placed 100% prop iin formation. Avg. rate: 79.4 bpm Avg. psi: 5872 psi Max. rate: 81.4 bpm Max. psi: 6546 psi</p> <p>End of job ISIP: 3483 FG: 0.83</p> <p>FTR: 272,344 bbls CR: 1130 bbls LTR: 271,214 bbls TSIF: 7,033,628 lbs</p>	2
PERF	<p>RU Arklatex WL for Stage# 33 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 11,128. Perforate at intervals: 11,111-11,133, 11,051-11,053, 10,991-10,993,10,931-10,933, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4000 psi, 345 ft/min, 770 Line Ten.</p> <p>TBP: 140 bbls FTR: 281,489 bbls CR: 1130 bbls LTR: 280,359 bbls TSIF: 7,033,628 lbs</p>	1.5
WSI	Wait on frac ops on the #38H.	3.75
STIM	<p>Frac Stage 33 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 30 bbls 7.5 % HCL, 240,550 lbs 30/50 sand & 8705 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 3953 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 65 *F. Gel Ph 7.4. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 1.75 ppg. Flushed well with 342 bbls. Ending rate 80 bpm @ 6362 psi. Placed 100% prop iin formation. Avg. rate: 77 bpm Avg. psi: 5795 psi Max. rate: 80 bpm Max. psi:6612 psi</p> <p>End of job ISIP: 3535 FG: 0.84</p> <p>FTR: 290,194 bbls. CR: 1130 bbls. LTR: 289,064 bbls. TSIF: 7,274,178 lbs.</p>	2.25
PERF	<p>RU Arklatex WL for Stage# 34 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 10,888'. Perforate at intervals: 10,871-10,873, 10,805-10,807, 10,748-10,750,10,691-10,693, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4420 psi, 345 ft/min, 930 Line Ten.</p> <p>TBP: 167 bbls. FTR: 290,361 bbls. CR: 1130 bbls. LTR: 289,231 bbls. TSIF: 7,274,178 lbs.</p>	1.5
WSI	Wait on frac ops on the #38H.	1
STIM	Started stage # 34. Pumped approximately 2,306 Bbls when the C-Pump [coupling device] on the blender failed. Flushed well with 343 Bbls. Shut well in, waiting on either a C-Pump replacement or another blender to be delivered to location. Approximately 15,000 lbs pumped.	1
U_PEPXD	C-Pump [coupling device] on blender failed. Waiting on replacement pump or blender.	2.25

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 34 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 239,238 lbs 30/50 sand & 9,282 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4,015 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.00 ppg. Flushed well with 341 bbls. Ending rate 75 bpm @ 7,800 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 74 bpm Avg. psi: 5,700 psi Max. rate: 80 bpm Max. psi: 8,503 psi</p> <p>End of job ISIP: 3,316 FG: 0.81</p> <p>Stage #34: Pumped approx 2,330 Bbls when C-Pump [coupling device] on blender failed. Flushed well with 343 Bbls. WSI - Waiting on replacement pump or blender. !5,000 lbs 30/50 pumped. Resumed job @ 0345.</p> <p>FTR: 299,643 bbls. CR: 1130 bbls. LTR: 298,513 bbls. TSIF: 7,513,416 lbs.</p>	1.5
PERF	Perfing stage # 35 @ report time.	0.75

Report #: 22 Daily Operation: 5/22/2015 06:00 - 5/23/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	034462

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
103	22	0.0			

Operations Summary
 Perf. stage 35
 Frac stage 35

Remarks	hrs	Cuml hrs
PNR	0.0	4.0
PPS Fleet 3:	5.75	27.0
Ark-La-Tex Wireline:	0.0	0.0
PrimePack Crane:	0.0	0.0
Archer Flowback:	0.0	0.0
Predator Pressure Eqmt:	0.0	0.0
FMC Surface Systems:	0.0	0.0
Select Water Transfer:	0.0	0.0
Schlumberger Completions:	0.0	0.0
Weather:	2.0	3.5

FTR: 308,989 BBLs
 LTR: 307,859 BBLs
 RT: 0.0 BBLs
 CR: 1130 BBLs
 TSIF: 7,751,733 LBS

Days: Bruce Brassfield/ Brian Alsip
 Nights: Dean Spurlin/ Cory Hendon/ Rick Maxwell

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
PERF	<p>RU Arklatex WL for Stage# 35 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 10,648'. Perforate at intervals: 10,631-10,633, 10,571-10,573, 10,511-10,513,10,451-10,453, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4500 psi, 345 ft/min, 910 Line Ten.</p> <p>TBP: 138 bbls. FTR: 299,781 bbls. CR: 1130 bbls. LTR: 298,651 bbls. TSIF: 7,513,416 lbs.</p>	1.5
WSI	Wait on frac ops on the #38H.	12.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
U_PEPXD	Repairing blender due to hydraulic issues. Repairing Hydration Unit flow meters. Got ready to go down hole and Blender started showing 40 bpm. Worked on Turbin meter and flow meters. Found Crossover valve out of line with manifold and wouldn't shut.	4.75
STIM	Acidized Well, Blender lost BP. Shut Down.	0.75
U_PEPXD	Valves on 8" Suction had actuators on backwards. Made Repairs.	1
STIM	<p>Frac Stage 35 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 238317 lbs 30/50 sand & 9208 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4138 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 69 *F. Gel Ph 7.5. Pumped 1418 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.0 ppg. Flushed well with 332 bbls. Ending rate 80 bpm @ 6100 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 63.8 bpm Avg. psi: 5270 psi Max. rate: 83.1 bpm Max. psi: 6792 psi</p> <p>End of job ISIP: 3687 FG: 0.86</p> <p>FTR: 308,989 bbls. CR: 1130 bbls. LTR: 307,859 bbls. TSIF: 7,751,733 lbs.</p>	1.75
U_SDP	Shut down crane due to high wind.	2

Report #: 23 Daily Operation: 5/23/2015 06:00 - 5/24/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 034462	
Days From Spud (days) 104	Days on Location (days) 23	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

Operations Summary

Perf. stage 36,37,38
 Frac stage 36,37
 Begin Frac Stage 38

Remarks

	0.0	hrs	4.0	Cuml hrs
PNR	0.0	hrs	27.0	Cuml hrs
PPS Fleet 3:	0.0	hrs	0.0	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	1.25	hrs	4.75	Cuml hrs

FTR: 327,206 BBLS
 LTR: 326,076 BBLS
 RT: 0.0 BBLS
 CR: 1130 BBLS
 TSIF: 8,218,345 LBS

Days: Bruce Brassfield/ Brian Alsip
 Nights: Dean Spurlin/ Rick Maxwell/Mike Sylvester

Note: While pumping stage 36 lost 3 pumps managed get 1 back on line finished stage on 1.50 lb sand at 72 bpm. 100% prop in formation.

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary		
Operation	Com	Dur (hr)
PERF	RU Arklatex WL for Stage# 36 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 10,408'. Perforate at intervals: 10,391-10,393, 10,331-10,333, 10,271-10,273,10,211-10,213, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4400 psi, 345 ft/min, 930 Line Ten. TBP: 114 bbls. FTR: 309,103 bbls. CR: 1130 bbls. LTR: 307,973 bbls. TSIF: 7,751,733 lbs.	3
STIM	Frac Stage 36 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 239,841 lbs 30/50 sand & 9271 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4173 psi @ 20 bpm Increased rate to 80 bpm. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.0 ppg. Flushed well with 337 bbls. Ending rate 72 bpm @ 7023 psi. Placed 100% prop iin formation. Avg. rate: 75.4 bpm Avg. psi: 6722 psi Max. rate: 82.7 bpm Max. psi: 9148 psi End of job ISIP: 3465 FG: 0.83 FTR: 318,374 bbls. CR: 1130 bbls. LTR: 317,244 bbls. TSIF: 7,991,574 lbs. Note: While pumping 1.0 lb.sand lost 3 pumps managed to get 1 pump back on line finished stage on 1.50 lb. sand at 72 bpm.	2.5
PERF	RU Arklatex WL for Stage# 37 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 10,168'. Perforate at intervals: 10,151-10,153, 10,091-10,093, 10,031-10,033 ,9,971- 9,973, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4150 psi, 345 ft/min, 870 Line Ten. TBP: 99 bbls. FTR: 318,473 bbls. CR: 1130 bbls. LTR: 317,343 bbls. TSIF: 7,991,574 lbs.	2
WSI	Wait on frac ops on the #38H.	3
WOF	PPS working on pumps and FMC greasing well heads.	3.5
STIM	Frac Stage 37 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 226,771 lbs 30/50 sand & 8641 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 3971 psi @ 20 bpm Increased rate to 80 bpm. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.0 ppg. Flushed well with 373 bbls. Ending rate 77 bpm @ 7414 psi. Placed 100% prop iin formation. Avg. rate: 75.8 bpm Avg. psi: 6435 psi Max. rate: 81.4 bpm Max. psi: 8221 psi End of job ISIP: 3491 FG: 0.84 FTR: 327,114 bbls. CR: 1130 bbls. LTR: 325,984 bbls. TSIF: 8,218,345 lbs.	2
PERF	RU Arklatex WL for Stage# 38 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 9,928'. Perforate at intervals: 9,911'- 9,913', 9,851- 9,853, 9,791- 9,793 ,9,731- 9,733, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4050 psi, 345 ft/min, 870 Line Ten. TBP: 92 bbls. FTR: 327,206 bbls. CR: 1130 bbls. LTR: 326,076 bbls.	2

Time Log Summary		
Operation	Com	Dur (hr)
WSI	Well shut waiting on frac ops on the #38	3
U_WOW	Thunderstorm with lightning within 10 miles. Moving directly toward location. Wait for it to pass before starting stage.	1.25
STIM	Prime and test. Begin Frac Stage 38	1.75

Report #: 24 Daily Operation: 5/24/2015 06:00 - 5/25/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 034462	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
105	24	0.0				

Operations Summary
 Frac Stage 38,39,40
 Perf. stage 39,40,41

Remarks				
PNR	0.0	hrs	4.0	Cuml hrs
PPS Fleet 3:	2.5	hrs	29.5	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	0.0	hrs	4.75	Cuml hrs

FTR: 353,703 BBLs
 LTR: 352,573 BBLs
 RT: 0.0 BBLs
 CR: 1130 BBLs
 TSIF: 8,943,018 LBS

Days: Bruce Brassfield/ Brian Alsip
 Nights: Rick Maxwell/Mike Sylvester/Justin Locklar

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary		
Operation	Com	Dur (hr)
STIM	Frac Stage 38 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 239,999 lbs 30/50 sand & 8863 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4130 psi @ 20 bpm Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 68 °F. Gel Ph 7.5. Pumped 1014 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.0 ppg. Flushed well with 316 bbls. Ending rate 80 bpm @ 6439 psi. Placed 100% prop iin formation. Avg. rate: 79.9 bpm Avg. psi: 5847 psi Max. rate: 81.2 bpm Max. psi: 6451 psi End of job ISIP: 3529 FG: 0.84 FTR: 336,069 bbls. CR: 1130 bbls. LTR: 334,939 bbls. TSIF: 8,458,344 lbs.	1
PERF	RU Arklatex WL for Stage# 39 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 9,688'. Perforate at intervals: 9,671-9,673, 9,611-9,613, 9,551-9,553 ,9,491- 9,593, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 16 bpm / 4100 psi, 345 ft/min, 830 Line Ten. TBP: 75 bbls. FTR: 336,144 bbls. CR: 1130 bbls. LTR: 335.014 bbls. TSIF: 8,458,344 lbs.	1.5
WSI	Wait on frac ops on the #38H.	3.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
STIM	<p>Frac Stage 39 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 244,703 lbs 30/50 sand & 8735 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 3933 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 6 cp. @ 74 *F. Gel Ph 7.4. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.0 ppg. Flushed well with 312 bbls. Ending rate 80 bpm @ 5218 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 80.4 bpm Avg. psi: 5963 psi Max. rate: 82.7 bpm Max. psi: 7098 psi</p> <p>End of job ISIP: 3520 FG: 0.84</p> <p>FTR: 344,879 bbls. CR: 1130 bbls. LTR: 343,749 bbls. TSIF: 8,703,047 lbs.</p>	2
PERF	<p>RU Arklatex WL for Stage# 40 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 9,448'. Perforate at intervals: 9,431-9,433, 9,371-9,373, 9,311-9,313 ,9,251- 9,253, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 12 bpm / 3800 psi, 345 ft/min, 780 Line Ten.</p> <p>TBP: 61 bbls. FTR: 344,940 bbls. CR: 1130 bbls. LTR: 343,810 bbls. TSIF: 8,703,047 lbs.</p>	1
WSI	Wait on frac ops on the #38H.	3.5
U_PEPXD	Valves and seats on 11021. Shut down pumps to allow cooling systems to cool. Blender #12019 dirty CPump adjustment.	2.5
STIM	<p>Frac Stage 40 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 239,971 lbs 30/50 sand & 8,705 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 5149 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started .5 PPA stage w/ 10# gel equivalent loading, 5 cp. @ 73 *F. Gel Ph 7.4. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.0 ppg. Flushed well with 305 bbls. Ending rate 72 bpm @ 7126 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 73.8 bpm Avg. psi: 5842 psi Max. rate: 81.3 bpm Max. psi: 8132 psi</p> <p>End of job ISIP: 3368 FG: 0.825</p> <p>FTR: 353,645 bbls. CR: 1130 bbls. LTR: 352,515 bbls. TSIF: 8,943,018 lbs.</p>	2.25
PERF	<p>RU Arklatex WL for Stage# 41 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 9,214 '. Perforate at intervals: 9,191-9,193, 9,127-9,129, 9,071-9,073 ,9,011- 9,013, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 12 bpm / 4100 psi, 345 ft/min, 830 Line Ten.</p> <p>TBP: 58 bbls. FTR: 353,703 bbls. CR: 1130 bbls. LTR: 352,573 bbls. TSIF: 8,943,018 lbs.</p>	1.25
WOZF	Waiting on Frac Ops on #38H	5.5

Report #: 25 Daily Operation: 5/25/2015 06:00 - 5/26/2015 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 034462
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Days From Spud (days) 106	Days on Location (days) 25	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
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Operations Summary
 Frac stage 41, 42, 43
 Perf. stage 42, 43

Remarks

PNR	0.0	hrs	4.0	Cuml hrs
PPS Fleet 3:	0.0	hrs	29.5	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	5.0	hrs	11.0	Cuml hrs

FTR: 379,488 BBLs
 LTR: 378,358 BBLs
 RT: 0.0 BBLs
 CR: 1130 BBLs
 TSIF: 9,644,381 LBS

Days: Bruce Brassfield/ Brian Alsip
 Nights: Rick Maxwell/Mike Sylvester/Justin Locklar

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
WSI	Wait on frac ops on the #38H.	0.5
U_WOW	Waiting on lighting to pass.	5
STIM	Frac Stage 41 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 242,286 lbs 30/50 sand & 8745 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4287 psi @ 20 bpm Increased rate to 80 bpm. Started stage w/ 10# gel equivalent loading, 5 cp. @ 72 *F. Gel Ph 7.4. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.0 ppg. Flushed well with 304 bbls. Ending rate 80 bpm @ 6222 psi. Placed 100% prop iin formation. Avg. rate: 79.1 bpm Avg. psi: 6185 psi Max. rate: 81.7 bpm Max. psi: 8654 psi End of job ISIP: 3518 FG: 0.84 FTR: 362,448 bbls. CR: 1130 bbls. LTR: 361,318 bbls. TSIF: 9,185,304 lbs.	2
PERF	RU Arklatex WL for Stage# 42 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 8,968 '. Perforate at intervals: 8,951-8,953, 8,891-8,893, 8,831-8,833 ,8,771- 8,773, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 12 bpm / 3650 psi, 345 ft/min, 800 Line Ten. TBP: 40 bbls. FTR: 362,488 bbls. CR: 1130 bbls. LTR: 361,358 bbls. TSIF: 9,185,304 lbs.	1.5
WSI	Wait on frac ops on the #38H.	4.5

Time Log Summary		
Operation	Com	Dur (hr)
STIM	<p>Frac Stage 42 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 244,429 lbs 30/50 sand & 8,81 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4517 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started .25 ppg stage slick water. Started .5ppg stage w/ 10# gel equivalent loading, 5 cp. @ 78 *F. Gel Ph 7.5. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 2.0 ppg. Flushed well with 295 bbls. Ending rate 80 bpm @ 5853 psi. Placed 100% prop iin formation.</p> <p>Avg. rate: 75.5 bpm Avg. psi: 5560 psi Max. rate: 81.2 bpm Max. psi: 7536 psi</p> <p>End of job ISIP: 3729 psi FG: 0.864</p> <p>FTR: 371169 bbls. CR: 1130 bbls. LTR: 370039 bbls. TSIF: 9,429,733 lbs.</p>	2
PERF	<p>RU Arklatex WL for Stage# 43 of 43 . RIH & pump down Schlumberger CFP & (4) 3-1/8 perforating guns W/ 21.5 gram, 5 SPF. 60 degree phasing, 0.42 EHD. Position and set composite frac plug at 8,728 '. Perforate at intervals: 8,711-8,713, 8,651-8,653, 8,591-8,593 ,8,531- 8,533, Total of 40 shots. POOH. Stand wireline back. Confirmed all guns fired. Pump down @ 6.5 bpm / 3550 psi, 300 ft/min, 1000 Line Ten.</p> <p>TBP: 33 bbls. FTR: 371,202 bbls. CR: 1130 bbls. LTR: 370,012 bbls. TSIF: 9,429,733 lbs.</p>	1.25
WOZF	Wait for Frac Ops on #38H	4.75
STIM	<p>Frac Stage 43 of 43 Test stack to 9500 psi. Hold 1500 psi on backside. PPS frac'd per schedule w/ 24 bbls 7.5 % HCL, 214,648 lbs 30/50 sand & 8,286 bbls of hybrid fluid down 5.5" 20# csg. Formation broke @ 4971 psi @ 20 bpm</p> <p>Increased rate to 80 bpm. Started .25-.5 ppg stage slick water. Started .75ppg stage w/ 10# gel equivalent loading, 5 cp. @ 70 *F. Gel Ph 7.5. Pumped 921 bbl pad. Ramped 30/50 sand from 0.25 ppg to 1.75 ppg. Flushed well with 191 bbls. Ending rate 80 bpm @ 5853 psi. Ran out of sand before we were able to go to 2#.</p> <p>Avg. rate: 72 bpm Avg. psi: 6982 psi Max. rate: 81 bpm Max. psi: 9442 psi</p> <p>End of job ISIP: 3327 psi FG: 0.69</p> <p>FTR: 379,488 bbls. CR: 1130 bbls. LTR: 378,358 bbls. TSIF: 9,644,381 lbs.</p>	2.5

Report #: 26 Daily Operation: 5/26/2015 06:00 - 5/27/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 034462
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
107	26	0.0				

Operations Summary
RDMO PPS frac spread and all support equipment.

Remarks

PNR	0.0	hrs	4.0	Cuml hrs
PPS Fleet 3:	0.0	hrs	29.5	Cuml hrs
Ark-La-Tex Wireline:	0.0	hrs	0.0	Cuml hrs
PrimePack Crane:	0.0	hrs	0.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
Predator Pressure Eqmt:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Schlumberger Completions:	0.0	hrs	0.0	Cuml hrs
Weather:	5.0	hrs	11.0	Cuml hrs

FTR: 379,488 BBLS
LTR: 378,358 BBLS
RT: 0.0 BBLS
CR: 1130 BBLS
TSIF: 9,644,381 LBS

Days: Bruce Brassfield/ Brian Alsip
Nights: Rick Maxwell/Mike Sylvester/Justin Locklar

Frac Tanks: 333, 075, 765, 349, 836 flowback/pumpdown: 765, 11956, 524, 280

Time Log Summary

Operation	Com	Dur (hr)
WSI	Wait on frac ops on the #38H.	2
RURD	RDMO PPS frac spread and all support equipment.	22

Report #: 27 Daily Operation: 5/27/2015 06:00 - 5/28/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 034462
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
108	27	0.0				

Operations Summary
RDMO PPS frac. RU Site safe containment for Sand X and Super Loop. RU flare stack.
WSI waiting on drill-out ops at report time.

Remarks

PNR	0.0	hrs	4.0	Cuml hrs
Archer Flowback:	0.0	hrs	0.0	Cuml hrs
FMC Surface Systems:	0.0	hrs	0.0	Cuml hrs
Select Water Transfer:	0.0	hrs	0.0	Cuml hrs
Weather:	0.0	hrs	11.0	Cuml hrs

Days: Eric Wampler/ Grant Moer/ Jason Howl
Nights: Bruce Brassfield/ Brian Alsip/ OZ Flores

FTR: 379,488 BBLS
LTR: 378,358 BBLS
RT: 0.0 BBLS
CR: 1130 BBLS
TSIF: 9,644,381 LBS

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.5
RURD	RU site safe containments for Sand X and Super Loop. Set Super Loop and Sand X. RU Flare stack.	12
WSI	WSI waiting on drill-out ops.	11.5

Report #: 28 Daily Operation: 5/28/2015 06:00 - 5/29/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 034462		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig CONQUEST COMPLETIN SERVICES, 1			
109	28	0.0						

Operations Summary
MIRU Conquest coil tubing, Archer flowback and Circle 8 crane. Pull test coil connector to 30K. MU BHA and NU BOP's. Rih w/ coil & drilled out CFP's # 43 thru 35.

Remarks				
PNR	0.0	hrs	0.0	Cum hrs.
Conquest CT	0.0	hrs	0.0	Cum hrs.
Archer Flowback:	0.0	hrs	0.0	Cum hrs
FMC Surface Systems:	0.0	hrs	0.0	Cum hrs
Express Water Transfer:	0.0	hrs	0.0	Cum hrs
Weather:	0.0	hrs	11.0	Cum hrs

Days: Eric Wampler/ Grant Moer/ Jason Howl
Nights: Bruce Brassfield/ Brian Alsip/ Oz Flores

FTR: 379,488 BBLS
LTR: 378,069 BBLS
RT: 289 BBLS
CR: 1,419 BBLS
TSIF: 9,644,381 LBS
Full Sand Boxes=1 serial number -2040

NITRO Drilling BHA:
Weld on Coil Connector- 2.87 N/A X .59
Dual BPV- 2.88 X 1 X 1.22
Jars- 2.88 X 1 X 4.72
TJ Disconnect- 2.88 X .83 X 2.13
X-Over- 3.13 X 1 X .85
Agitator- 3.13 X N/A X 4.36
Pony Collar- 3.13 X N/A X 10
Agitator- 3.13 X N/A X 4.37
Motor- 3.13 X N/A X 14.11
Bit Sub- 3.77 X 1.37 X .87
Bit- 4.63 X N/A .50
TOTAL BHA LENGTH= 43.72

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.5
RURD	RU Conquest 2-5/8 coil tubing, Archer flowback and Circle 8 crane service. Pull tested coil connector to 30K. NU BOP's and lubricator. MU BHA and connect to coil. Tested Bop to 8,500 psi (Good test)	14
	NITRO Drilling BHA: Weld on Coil Connector- 2.87 N/A X .59 Dual BPV- 2.88 X 1 X 1.22 Jars- 2.88 X 1 X 4.72 TJ Disconnect- 2.88 X .83 X 2.13 X-Over- 3.13 X 1 X .85 Agitator- 3.13 X N/A X 4.36 Pony Collar- 3.13 X N/A X 10 Agitator- 3.13 X N/A X 4.37 Motor- 3.13 X N/A X 14.11 Bit Sub- 3.77 X 1.37 X .87 Bit- 4.63 X N/A .50 TOTAL BHA LENGTH= 43.72	
MILL_CT	RIH to Schlumberger CFP #43 Tag at 8,744'. Avg pump rate 3.3 bpm/ 5,300 psi, Avg return rate 3.5 bpm/ 2,150 psi, drill time 15 min w/ no sand in returns. Pump 5 bbl 80 visc sweep.	0.5
MILL_CT	Cont washing very light sand to Schlumberger CFP #42, Tag at 8,782', Avg pump rate 3.3 bpm/ 5,280 psi, Avg. return rate 3.5 bpm/ 2,160 psi, drill time 23 min w/ light sand in returns. Pump 5 bbl 80 visc sweep.	0.75
MILL_CT	Cont washing light sand to Schlumberger CFP #41 , Tag at 9,225', Avg pump rate 3.3 bpm/ 5350 psi, Avg. return rate 3.5 bpm/ 2250 psi, drill time 24 min w/ light sand in returns. Pump 10 bbl 80 visc sweep.	1
MILL_CT	Cont washing light sand to Schlumberger CFP #40 , Tag at 9461', Avg pump rate 3.3 bpm/ 5250 psi, Avg. return rate 3.5 bpm/ 2300 psi, drill time 12 min w/ light sand in returns. Pump 5 bbl 80 visc sweep.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
MILL_CT	Cont washing light sand to Schlumberger CFP #39 , Tag at 9,702', Avg pump rate 3.3 bpm/ 5,290 psi, Avg. return rate 3.5 bpm/ 2,150 psi, drill time 9 min w/ medium sand in returns. Pump 5 bbl 80 visc sweep.	1
MILL_CT	Cont washing light sand to Schlumberger CFP #38 , Tag at 9,941', Avg pump rate 3.3 bpm/ 5,340 psi, Avg. return rate 3.5 bpm/ 2,040 psi, drill time 10 min w/ light sand in returns. Pump 20 bbl 80 visc sweep.	1.25
MILL_CT	Cont washing light sand to Schlumberger CFP #37 , Tag at 10,184', Avg pump rate 3.3 bpm/ 5,300 psi, Avg. return rate 3.5 bpm/ 2,300 psi, drill time 6 min w/ light sand in returns. Pump 5 bbl 80 visc sweep.	1
MILL_CT	Cont washing light sand to Schlumberger CFP #36 , Tag at 10,423', Avg pump rate 3.3 bpm/ 5,300 psi, Avg. return rate 3.5 bpm/ 2,150 psi, drill time 13 min w/ light sand in returns. Pump 5 bbl 80 visc sweep.	1
MILL_CT	Cont washing light sand to Schlumberger CFP #35 , Tag at 10,660', Avg pump rate 3.3 bpm/ 5,247 psi, Avg. return rate 3.5 bpm/ 1,700 psi, drill time 11 min w/ light sand in returns. Pump 10 bbl 80 visc sweep.	1.25
MILL_CT	Continue washing down to Schlumberger CFP #34 @ report time.	0.75

Report #: 29 Daily Operation: 5/29/2015 06:00 - 5/30/2015 06:00						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 034462	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig CONQUEST COMPLETIN SERVICES, 1	
110	29	0.0				

Operations Summary
Drill Schlumberger CFP's # 34 thru #8.

Remarks				
PNR	0.0	hrs	0.0	Cum hrs.
Conquest CT	0.0	hrs	0.0	Cum hrs.
Archer Flowback:	0.0	hrs	0.0	Cum hrs
FMC Surface Systems:	0.0	hrs	0.0	Cum hrs
Express Water Transfer:	0.0	hrs	0.0	Cum hrs
Weather:	0.0	hrs	11.0	Cum hrs

Days: Eric Wampler/ Grant Moer/ Jason Howl
Nights: Bruce Brassfield/ Brian Alsip/ Oz Flores

FTR: 379,488 BBLS
LTR: 377,102 BBLS
RT: 967 BBLS
CR: 2,386 BBLS
TSIF: 9,644,381 LBS
Frac Tanks/flowback/drill-outs: 765, 11956, 524, 280
Full Sand Boxes=2 serial numbers -Smart Move (2040), (2044)

NITRO Drilling BHA:
Weld on Coil Connector- 2.87 N/A X .59
Dual BPV- 2.88 X 1 X 1.22
Jars- 2.88 X 1 X 4.72
TJ Disconnect- 2.88 X .83 X 2.13
X-Over- 3.13 X 1 X .85
Agitator- 3.13 X N/A X 4.36
Pony Collar- 3.13 X N/A X 10
Agitator- 3.13 X N/A X 4.37
Motor- 3.13 X N/A X 14.11
Bit Sub- 3.77 X 1.37 X .87
Bit- 4.63 X N/A .50
TOTAL BHA LENGTH= 43.72

Time Log Summary		
Operation	Com	Dur (hr)
SAFETY	PJSM	0.25
MILL_CT	Wash down to Schlumberger CFP #34 , Tag at 10,903', Avg pump rate 3.3 bpm/ 5,100 psi, Avg. return rate 3.5 bpm/ 1,800 psi, drill time 9 min w/ medium sand and small plug parts in returns. Pump 5 bbl 80 visc sweep.	0.25
MILL_CT	Wash down to Schlumberger CFP #33 , Tag at 11,140', Avg pump rate 3.5 bpm/ 5,300 psi, Avg. return rate 3.8 bpm/ 2,000 psi, drill time 12 min w/ medium sand and small plug parts in returns. Pump 5 bbl 80 visc sweep.	0.5
MILL_CT	Wash down to Schlumberger CFP #32 , Tag at 11,383', Avg pump rate 3.5 bpm/ 5,500 psi, Avg. return rate 3.8 bpm/ 1,950 psi, drill time 9 min w/ medium sand and small plug parts in returns. Pump 20 bbl 80 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #31 , Tag at 11,627', Avg pump rate 3.5 bpm/ 5,500 psi, Avg. return rate 3.8 bpm/ 2,025 psi, drill time 11 min w/ medium sand and small plug parts in returns. Pump 5 bbl 80 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #30 , Tag at 11,863', Avg pump rate 3.5 bpm/ 5,500 psi, Avg. return rate 3.9 bpm/ 1,900 psi, drill time 15 min w/ medium sand and small plug parts in returns. Pump 5 bbl 80 visc sweep.	0.5
MILL_CT	Wash down to Schlumberger CFP #29 , Tag at 12,102', Avg pump rate 3.5 bpm/ 5,590 psi, Avg. return rate 3.9 bpm/ 2,025 psi, drill time 9 min w/ medium sand and small plug parts in returns. Pump 10 bbl 80 visc sweep.	0.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary		
Operation	Com	Dur (hr)
MILL_CT	Wash down to Schlumberger CFP #28, Tag at 12,340', Avg pump rate 3.5 bpm/ 5,495 psi, Avg. return rate 3.9 bpm/ 1,900 psi, drill time 27 min w/ medium sand and small plug parts in returns. Pump 5 bbl 80 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #27, Tag at 12,588', Avg pump rate 3.5 bpm/ 5,498 psi, Avg. return rate 3.9 bpm/ 1,906 psi, drill time 15 min w/ medium sand and small plug parts in returns. Pump 5 bbl 80 visc sweep.	0.5
MILL_CT	Wash down to Schlumberger CFP #26, Tag at 12,824', Avg pump rate 3.5 bpm/ 5,507 psi, Avg. return rate 3.9 bpm/ 1,902 psi, drill time 16 min w/ medium sand and small plug parts in returns. Pump 20 bbl 80 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #25, Tag at 13,063', Avg pump rate 3.5 bpm/ 5,407 psi, Avg. return rate 3.8 bpm/ 1,829 psi, drill time 11 min w/ medium sand and small plug parts in returns. Pump 5 bbl 80 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #24, Tag at 13,300', Avg pump rate 3.5 bpm/ 5,335 psi, Avg. return rate 3.9 bpm/ 1,857 psi, drill time 17 min w/ medium sand and small plug parts in returns. Pump 5 bbl 80 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #23, Tag at 13,549', Avg pump rate 3.5 bpm/ 5,403 psi, Avg. return rate 3.8 bpm/ 1,903 psi, drill time 23 min w/ medium sand and small plug parts in returns. Pump 10 bbl 80 visc sweep.	0.5
MILL_CT	Wash down to Schlumberger CFP #22, Tag at 13,775', Avg pump rate 3.5 bpm/ 5,489 psi, Avg. return rate 3.8 bpm/ 1,832 psi, drill time 19 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #21, Tag at 14,025', Avg pump rate 3.5 bpm/ 5,530 psi, Avg. return rate 3.9 bpm/ 1,850 psi, drill time 13 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #20, Tag at 14,263', Avg pump rate 3.5 bpm/ 5,476 psi, Avg. return rate 3.9 bpm/ 1,860 psi, drill time 12 min w/ medium sand and small plug parts in returns. Pump 20 bbl 100 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #19, Tag at 14,505', Avg pump rate 3.5 bpm/ 5,555 psi, Avg. return rate 3.9 bpm/ 1,887 psi, drill time 19 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	0.75
MILL_CT	Wash down to Schlumberger CFP #18, Tag at 14,738', Avg pump rate 3.7 bpm/ 5,500 psi, Avg. return rate 3.9 bpm/ 1,890 psi, drill time 17 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #17, Tag at 14,980', Avg pump rate 3.7 bpm/ 5,500 psi, Avg. return rate 3.9 bpm/ 1,830 psi, drill time 12 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	1.5
MILL_CT	Wash down to Schlumberger CFP #16, Tag at 15,218', Avg pump rate 3.7 bpm/ 5,300 psi, Avg. return rate 3.9 bpm/ 1,810 psi, drill time 13 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #15, Tag at 15,465', Avg pump rate 3.7 bpm/ 5,310 psi, Avg. return rate 3.9 bpm/ 1,825 psi, drill time 13 min w/ medium sand and small plug parts in returns. Pump 20 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #14, Tag at 15,708', Avg pump rate 3.7 bpm/ 5,340 psi, Avg. return rate 3.8 bpm/ 1,840 psi, drill time 14 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #13, Tag at 15,940', Avg pump rate 3.7 bpm/ 5,500 psi, Avg. return rate 3.8 bpm/ 1,940 psi, drill time 18 min w/ medium sand and small plug parts in returns. Pump 10 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #12, Tag at 16,193', Avg pump rate 3.7 bpm/ 5,550 psi, Avg. return rate 3.8 bpm/ 1,950 psi, drill time 17 min w/ medium sand and small plug parts in returns. Pump 10 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #11, Tag at 16,421', Avg pump rate 3.7 bpm/ 5,300 psi, Avg. return rate 3.8 bpm/ 1,870 psi, drill time 16 min w/ medium sand and small plug parts in returns. Pump 10 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #10, Tag at 16,660', Avg pump rate 3.7 bpm/ 5,700 psi, Avg. return rate 3.8 bpm/ 1,940 psi, drill time 18 min w/ medium sand and small plug parts in returns. Pump 10 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #9, Tag at 16,839', Avg pump rate 3.5 bpm/ 5,500 psi, Avg. return rate 3.7 bpm/ 1,950 psi, drill time 22 min w/ heavy sand and small plug parts in returns. Pump 10 bbl 100 visc sweep.	1
MILL_CT	Wash down to Schlumberger CFP #8, Tag at 17,018', Avg pump rate 3.5 bpm/ 5,400 psi, Avg. return rate 3.7 bpm/ 1,900 psi, drill time 23 min w/ heavy sand and small plug parts in returns. Pump 10 bbl 100 visc sweep.	1
MILL_CT	Currently Washing down to Schlumberger CFP #7 @ report time. Avg pump rate 3.5 bpm/ 5,400 psi, Avg. return rate 3.7 bpm/ 1,900 psi.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Report #: 30 Daily Operation: 5/30/2015 06:00 - 5/31/2015 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 034462
Days From Spud (days) 111	Days on Location (days) 30	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig CONQUEST COMPLETIN SERVICES, 1

Operations Summary
 Drill Schlumberger CFP's # 7 thru #1 . Pumped sweeps and tagged toe sleeve @ 18,287' CTM'. POOH to curve then RIH to make a clean out run to toe sleeve. POOH w/2-5/8 coil tubing and NITRO BHA. At report time.

Remarks				
PNR	0.0	hrs	0.0	Cum hrs.
Conquest CT	0.0	hrs	0.0	Cum hrs.
Archer Flowback:	0.0	hrs	0.0	Cum hrs
FMC Surface Systems:	0.0	hrs	0.0	Cum hrs
Express Water Transfer:	0.0	hrs	0.0	Cum hrs
Weather:	0.0	hrs	11.0	Cum hrs

Days: Eric Wampler/ Grant Moer/ Jason Howl
 Nights: Bruce Brassfield/ Brian Alsip/ Oz Flores

FTR: 379,488 BBLS
 LTR: 376,278 BBLS
 RT: 824 BBLS
 CR: 3210 BBLS
 TSIF: 9,644,381 LBS
 Frac Tanks/flowback/drill-outs: 765, 11956, 524, 280
 Full Sand Boxes=2 serial numbers -Smart Move (2040), (2044)

NITRO Drilling BHA:
 Weld on Coil Connector- 2.87 N/A X .59
 Dual BPV- 2.88 X 1 X 1.22
 Jars- 2.88 X 1 X 4.72
 TJ Disconnect- 2.88 X .83 X 2.13
 X-Over- 3.13 X 1 X .85
 Agitator- 3.13 X N/A X 4.36
 Pony Collar- 3.13 X N/A X 10
 Agitator- 3.13 X N/A X 4.37
 Motor- 3.13 X N/A X 14.11
 Bit Sub- 3.77 X 1.37 X .87
 Bit- 4.63 X N/A .50
 TOTAL BHA LENGTH= 43.72

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.25
MILL_CT	Wash down to Schlumberger CFP #7, Tag at 17,203', Avg pump rate 3.5 bpm/ 5,470 psi, Avg. return rate 3.9 bpm/ 1,930 psi, drill time 24 min w/ medium sand and small plug parts in returns. Pump 10 bbl 100 visc sweep.	0.25
MILL_CT	Wash down to Schlumberger CFP #6, Tag at 17,393', Avg pump rate 3.5 bpm/ 5,519 psi, Avg. return rate 3.9 bpm/ 1,947 psi, drill time 31 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	0.5
MILL_CT	Wash down to Schlumberger CFP #5, Tag at 17,568', Avg pump rate 3.5 bpm/ 5,740 psi, Avg. return rate 3.9 bpm/ 1,944 psi, drill time 16 min w/ medium sand and small plug parts in returns. Pump 10 bbl 100 visc sweep.	2
MILL_CT	Wash down to Schlumberger CFP #4, Tag at 17,753', Avg pump rate 3.5 bpm/ 5,630 psi, Avg. return rate 3.9 bpm/ 1,944 psi, drill time 31 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	2.5
MILL_CT	Wash down to Schlumberger CFP #3, Tag at 17,931', Avg pump rate 3.8 bpm/ 5,873 psi, Avg. return rate 4.2 bpm/ 1,896 psi, drill time 18 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	1.5
MILL_CT	Wash down to Schlumberger CFP #2, Tag at 18,108', Avg pump rate 3.8 bpm/ 5,928 psi, Avg. return rate 4.2 bpm/ 1,958 psi, drill time 20 min w/ medium sand and small plug parts in returns. Pump 20 bbl 100 visc sweep.	1.25
MILL_CT	Wash down to Schlumberger CFP #1, Tag at 18,280', Avg pump rate 3.8 bpm/ 6,130 psi, Avg. return rate 4.2 bpm/ 1,941 psi, drill time 21 min w/ medium sand and small plug parts in returns. Pump 5 bbl 100 visc sweep.	1
MILL_CT	Wash down to toe sleeve @ 18,287' CTM'. Sent a 20, 10 and 20 bbls sweep and begin pull to verticle. Pull to 8,000' CTM'. RIH to toe sleeve to clean out. POOH w/ 2-5/8 coil tubing and NITRO drilling BHA. At report time.	14.75

Report #: 31 Daily Operation: 5/31/2015 06:00 - 6/1/2015 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 034462
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Days From Spud (days) 112	Days on Location (days) 31	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig CONQUEST COMPLETIN SERVICES, 1
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Operations Summary
 POOH with 2-5/8 Conquest CTU. Bump up @ 06:15 and ND lubricator. Found 19.21' of BHA was missing. Bit, bit sub, motor and NOV agitator. BHA was parted @ outer housing of NOV agitator. ND rest of BHA. Cut 22' of coil tubing, welded new coil connector and pull tested to 35K. NITRO MU 3.88 overshot and right handed wicker spiral grapple. NU lubricator RIH w/fishing BHA and 2-5/8 coil tubing. Tagged top of fish at 18,304' pumping 3.5 bpm washed down 3' PU two times gained weight indications show we caught fish POOH at 75' per min. Pooh ld bha & fish. Nd bops & rd Conquest CT.

Remarks	PNR	0.0	hrs	0.0	Cum hrs.
	Conquest CT	6	hrs	6	Cum hrs.
	Archer Flowback:	0.0	hrs	0.0	Cum hrs
	FMC Surface Systems:	0.0	hrs	0.0	Cum hrs
	Express Water Transfer:	0.0	hrs	0.0	Cum hrs
	Weather:	0.0	hrs	11.0	Cum hrs

Days: Eric Wampler/ Grant Moer/ Jason Howl
 Nights: Bruce Brassfield/ Brian Alsip/ Oz Flores

FTR: 379,488 BBLs
 LTR: 376,083 BBLs
 RT: 195 BBLs
 CR: 3405 BBLs
 TSIF: 9,644,381 LBS
 Frac Tanks/flowback/drill-outs: 765, 11956, 524, 280
 Full Sand Boxes=2 serial numbers -Smart Move (2040), (2044)

NITRO Fishing BHA:
 Weld on Coil Connector- 2.88 X 1.37 X .54
 Dual Flapper BPV- 2.88 X 1 X 1.22
 NITRO Jars- 2.88 X 1 X 5.05
 TJ Disconnect- 2.88 X .75 X 2.13
 X-Over- 3.13 X 1.37 X .85
 NOV Agitator- 3.13 X N/A X 3.80
 Pony Collar- 3.13 X N/A X 10
 NOV Agitator- 3.13 X N/A X 3.79
 X-Over- 3.13 X 1.37 X .81
 Index Tool- 2.90 X N/A X 2.95
 X-Over- 2.88 X N/A X .50
 Overshot- 3.88 X 3.19 X 5.84
 3.125 Right Handed Wicker Spiral Grapple

TOTAL Fishing BHA LENGTH= 37.48

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.25
MILL_CT	Finish POOH w/ 2/5-8 coil tubing. BU @ 6:15. ND lubricator and found we were missing 19.21' of BHA. Bit, bit sub, motor and NOV agitator. ND rest of BHA and cut 22' of coil. Weld on new coil connector and pull test to 35K.	1.75
U_SDP	Waiting on Nitro Fishing tools to arrive.	6
MILL_CT	MU fishing BHA. NU lubricator and RIH with fishing BHA. NITRO Fishing BHA: Weld on Coil Connector- 2.87 X 1.37 X .54 Dual BPV- 2.88 X 1 X 1.22 NITRO Jars- 2.88 X 1 X 5.05 TJ Disconnect- 2.88 X .75 X 2.13 X-Over- 3.13 X 1.37 X .85 NOV Agitator- 3.13 X N/A X 3.80 Pony Collar- 3.13 X N/A X 10 NOV Agitator- 3.13 X N/A X 3.79 X-Over- 3.13 X 1.37 X .81 Index Tool- 2.90 X N/A X 2.95 X-Over- 2.88 X N/A X .50 Overshot- 3.88 X 3.19 X 5.18 3.125 Right Handed Wicker Spiral Grapple TOTAL Fishing BHA LENGTH= 37.48	4

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Time Log Summary

Operation	Com	Dur (hr)
U_FISH	Tagged top of fish at 18,304' pumping 3.5 bpm wahed down 4' PU two times gained weight indicatiuons show we caught fish POOH at 75' per min.	6
RURD	Rd Conquest CT & nd bops.	2.75
WSI	Well shut in. Waiting to run prod string.	3.25

Report #: 32 Daily Operation: 6/1/2015 06:00 - 6/2/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 034462	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
113	32	0.0			

Operations Summary

WSI waiting to run production tubing.

Remarks

Days: Eric Wampler/ Grant Moer/ Jason Howl
Nights: Bruce Brassfield/ Brian Alsip/ Oz Flores

FTR: 379,488 BBLs
LTR: 376,083 BBLs
RT: 195 BBLs
CR: 3405 BBLs
TSIF: 9,644,381 LBS
Frac Tanks/flowback/drill-outs: 765, 11956, 524, 280
Full Sand Boxes=2 serial numbers -Smart Move (2040), (2044)

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI. Waiting to run production tubing.	24

Report #: 33 Daily Operation: 6/2/2015 06:00 - 6/3/2015 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 034462	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
114	33	0.0			

Operations Summary

WSI waiting to run production tubing.

Remarks

Days: Eric Wampler/ Grant Moer/ Jason Howl
Nights: Bruce Brassfield/ Brian Alsip/ Oz Flores

FTR: 379,488 BBLs
LTR: 376,083 BBLs
RT: 195 BBLs
CR: 3405 BBLs
TSIF: 9,644,381 LBS
Frac Tanks/flowback/drill-outs: 765, 11956, 524, 280
Full Sand Boxes=2 serial numbers -Smart Move (2040), (2044)

Time Log Summary

Operation	Com	Dur (hr)
WSI	WSI. Waiting to run production tubing.	24

WELL DETAILS

Well Name UNIVERSITY 3-19 37H	API/UWI 42-461-39975-0000	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	26.5	126.5	2/1/2015	2/1/2015
Surface	17 1/2	126.5	736.0	2/8/2015	2/9/2015
Intermediate	12 1/4	736.0	7,915.0	2/12/2015	2/16/2015
Production	8 1/2	7,915.0	18,430.0	3/30/2015	4/5/2015

Conductor Casing

Run Date	Set Depth (ftKB)	Centralizers						
	120.0							
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	20	19.124	94.00	J-55	120.00		0.0	120.0
Run Date	Set Depth (ftKB)	Centralizers						
2/1/2015	126.5							

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Conductor	20	19.124	94.00	J-55	100.00	3	26.5	126.5
Surface Casing								
Set Depth (ftKB)	736.0	Run Date	2/9/2015	Centralizers	4			
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	13 3/8	12.615	54.50	J-55	0.00	0	28.0	28.0
Cut off	13 3/8	12.615			0.00	0	28.0	28.0
Casing Joints	13 3/8	12.615	54.50	J-55	666.52	17	28.0	694.5
Float Collar	13 3/8	12.615			1.30	1	694.5	695.8
Casing Joints	13 3/8	12.615	54.50	J-55	38.88	1	695.8	734.7
Float Shoe	13 3/8	12.615			1.30	1	734.7	736.0
Set Depth (ftKB)	1,418.0	Run Date		Centralizers				
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	13 3/8	12.715	48.00	J-55	1,418.00		0.0	1,418.0
Surface Casing Cement								
Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)		
Casing	Surface, 736.0ftKB	2/9/2015	2/9/2015	SCHLUMBERGER	160.0	736.0		
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)					
Class C	568	1.70	13.60					
Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)		
Casing	Surface, 736.0ftKB	2/9/2015	2/9/2015	SCHLUMBERGER	27.0	160.0		
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)					
Class C	126	1.33	14.80					
Intermediate Casing								
Set Depth (ftKB)	7,902.9	Run Date	2/18/2015	Centralizers	27			
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Landing Joint	9 5/8	8.835			0.00	0	27.9	27.9
Casing Hanger	9 5/8	8.835			0.00	0	27.9	27.9
Casing Joints	9 5/8	8.835	40.00	L-80	3,748.22	84	27.9	3,776.1
Pup Joint	9 5/8	8.835			22.33	1	3,776.1	3,798.4
Stage Collar	9 5/8	8.835			5.38	1	3,798.4	3,803.8
Pup Joint	9 5/8	8.835			43.56	2	3,803.8	3,847.4
Casing Joints	9 5/8	8.835	40.00	L-80	1,805.80	40	3,847.4	5,653.2
Casing Joints	9 5/8	8.755	43.50	L-80	2,152.62	46	5,653.2	7,805.8
Float Collar	9 5/8	8.755			1.50	1	7,805.8	7,807.3
Casing Joints	9 5/8	8.755	43.50	L-80	93.85	2	7,807.3	7,901.2
Float Shoe	9 5/8	8.755			1.75	1	7,901.2	7,902.9
Set Depth (ftKB)	7,910.0	Run Date		Centralizers				
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	9 5/8	8.835	40.00	L-80	7,910.00		0.0	7,910.0
Intermediate Casing Cement								
Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)		
Casing	Intermediate, 7,902.9ftKB	2/18/2015	2/18/2015	SCHLUMBERGER	3,530.0	7,915.0		
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)					
Water			8.32					
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)					
Spacer			9.50					
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)					
TXI LITEWEIGHT	608	2.23	11.50					
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)					
Class H	186	1.07	16.40					
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)					
Water			8.34					
Production Casing								
Set Depth (ftKB)	18,417.0	Run Date	4/7/2015	Centralizers				
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	5 1/2	4.778	20.00	P-110	0.00	0	28.6	28.6

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Landing Joint	5 1/2	4.778	20.00	P-110	0.00	0	28.6	28.6
Casing Hanger	5 1/2	4.778	20.00	P-110	4.00	1	28.6	32.6
Casing Joints	5 1/2	4.778	20.00	P-110	7,799.15	185	32.6	7,831.8
Marker Joint	5 1/2	4.778	20.00	P-110	10.13	1	7,831.8	7,841.9
Casing Joints	5 1/2	4.778	20.00	P-110	170.09	4	7,841.9	8,012.0
Marker Joint	5 1/2	4.778	20.00	P-110	9.81	1	8,012.0	8,021.8
Casing Joints	5 1/2	4.778	20.00	P-110	10,239.32	243	8,021.8	18,261.1
Pup Joint	5 1/2	4.778	20.00	P-110	12.00	1	18,261.1	18,273.1
Toe Sleeve	5 1/2	4.778	20.00	P-110	5.41	1	18,273.1	18,278.5
Pup Joint	5 1/2	4.778	20.00	P-110	12.13	1	18,278.5	18,290.7
Casing Joints	5 1/2	4.778	20.00	P-110	43.14	1	18,290.7	18,333.8
Float Collar	5 1/2	4.778	20.00	P-110	1.79	1	18,333.8	18,335.6
Casing Joints	5 1/2	4.778	20.00	P-110	79.91	2	18,335.6	18,415.5
Float Shoe	5 1/2	4.778	20.00	P-110	1.50	1	18,415.5	18,417.0

Set Depth (ftKB)	18,595.0	Run Date	Centralizers
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Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	5 1/2	4.778	20.00	P-110	18,595.00		0.0	18,595.0

Production Casing Cement

Type	Casing	String	Production, 18,417.0ftKB	Cementing Start Date	4/7/2015	Cementing End Date	4/8/2015	Cementing Company	SCHLUMBERGER	Top (ftKB)	3,000.0	Btm (ftKB)	18,417.0
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)						13.00	
Class	Class C			400		2.55						11.30	
Class	Class C			1,791		1.64						12.50	
Class												8.35	
Class													

Cement Squeeze

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

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
8,531.0	8,533.0		5.0	10	Stage 43: Cluster 4
8,591.0	8,593.0		5.0	10	Stage 43: Cluster 3
8,651.0	8,653.0		5.0	10	Stage 43: Cluster 2
8,711.0	8,713.0		5.0	10	Stage 43: Cluster 1
8,771.0	8,773.0		5.0	10	Stage 42: Cluster 4
8,831.0	8,833.0		5.0	10	Stage 42: Cluster 3
8,891.0	8,893.0		5.0	10	Stage 42: Cluster 2
8,951.0	8,953.0		5.0	10	Stage 42: Cluster 1
9,011.0	9,013.0		5.0	10	Stage 41: Cluster 4
9,071.0	9,073.0		5.0	10	Stage 41: Cluster 3
9,127.0	9,129.0		5.0	10	Stage 41: Cluster 2
9,191.0	9,193.0		5.0	10	Stage 41: Cluster 1
9,251.0	9,253.0		5.0	10	Stage 40: Cluster 4
9,311.0	9,313.0		5.0	10	Stage 40: Cluster 3
9,371.0	9,373.0		5.0	10	Stage 40: Cluster 2
9,431.0	9,433.0		5.0	10	Stage 40: Cluster 1
9,491.0	9,493.0		5.0	10	Stage 39: Cluster 4
9,551.0	9,553.0		5.0	10	Stage 39: Cluster 3
9,611.0	9,613.0		5.0	10	Stage 39: Cluster 2
9,671.0	9,673.0		5.0	10	Stage 39: Cluster 1
9,731.0	9,733.0		5.0	10	Stage 38: Cluster 4

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Perforations					
Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
9,791.0	9,793.0		5.0	10	Stage 38: Cluster 3
9,851.0	9,853.0		5.0	10	Stage 38: Cluster 2
9,911.0	9,913.0		5.0	10	Stage 38: Cluster 1
9,971.0	9,973.0		5.0	10	Stage 37: Cluster 4
10,031.0	10,033.0		5.0	10	Stage 37: Cluster 3
10,091.0	10,093.0		5.0	10	Stage 37: Cluster 2
10,151.0	10,153.0		5.0	10	Stage 37: Cluster 1
10,211.0	10,213.0		5.0	10	Stage 36: Cluster 4
10,271.0	10,273.0		5.0	10	Stage 36: Cluster 3
10,331.0	10,333.0		5.0	10	Stage 36: Cluster 2
10,391.0	10,393.0		5.0	10	Stage 36: Cluster 1
10,451.0	10,453.0		5.0	10	Stage 35: Cluster 4
10,511.0	10,513.0		5.0	10	Stage 35: Cluster 3
10,571.0	10,573.0		5.0	10	Stage 35: Cluster 2
10,631.0	10,633.0		5.0	10	Stage 35: Cluster 1
10,691.0	10,693.0		5.0	10	Stage 34: Cluster 4
10,748.0	10,750.0		5.0	10	Stage 34: Cluster 3
10,805.0	10,807.0		5.0	10	Stage 34: Cluster 2
10,871.0	10,873.0		5.0	10	Stage 34: Cluster 1
10,931.0	10,933.0		5.0	10	Stage 33: Cluster 4
10,991.0	10,993.0		5.0	10	Stage 33: Cluster 3
11,051.0	11,053.0		5.0	10	Stage 33: Cluster 2
11,111.0	11,113.0		5.0	10	Stage 33: Cluster 1
11,171.0	11,173.0		5.0	10	Stage 32: Cluster 4
11,231.0	11,233.0		5.0	10	Stage 32: Cluster 3
11,291.0	11,293.0		5.0	10	Stage 32: Cluster 2
11,351.0	11,353.0		5.0	10	Stage 32: Cluster 1
11,411.0	11,413.0		5.0	10	Stage 31: Cluster 4
11,471.0	11,473.0		5.0	10	Stage 31: Cluster 3
11,531.0	11,533.0		5.0	10	Stage 31: Cluster 2
11,591.0	11,593.0		5.0	10	Stage 31: Cluster 1
11,651.0	11,653.0		5.0	10	Stage 30: Cluster 4
11,711.0	11,713.0		5.0	10	Stage 30: Cluster 3
11,771.0	11,773.0		5.0	10	Stage 30: Cluster 2
11,831.0	11,833.0		5.0	10	Stage 30: Cluster 1
11,891.0	11,893.0		5.0	10	Stage 29: Cluster 4
11,955.0	11,957.0		5.0	10	Stage 29: Cluster 3
12,011.0	12,013.0		5.0	10	Stage 29: Cluster 2
12,071.0	12,073.0		5.0	10	Stage 29: Cluster 1
12,131.0	12,133.0		5.0	10	Stage 28: Cluster 4
12,191.0	12,193.0		5.0	10	Stage 28: Cluster 3
12,251.0	12,253.0		5.0	10	Stage 28: Cluster 2
12,311.0	12,313.0		5.0	10	Stage 28: Cluster 1
12,371.0	12,373.0		5.0	10	Stage 27: Cluster 4
12,431.0	12,433.0		5.0	10	Stage 27: Cluster 3
12,491.0	12,493.0		5.0	10	Stage 27: Cluster 2
12,556.0	12,558.0		5.0	10	Stage 27: Cluster 1
12,611.0	12,613.0		5.0	10	Stage 26: Cluster 4
12,671.0	12,673.0		5.0	10	Stage 26: Cluster 3
12,731.0	12,733.0		5.0	10	Stage 26: Cluster 2
12,791.0	12,793.0		5.0	10	Stage 26: Cluster 1
12,851.0	12,853.0		5.0	10	Stage 25: Cluster 4
12,911.0	12,913.0		5.0	10	Stage 25: Cluster 3
12,971.0	12,973.0		5.0	10	Stage 25: Cluster 2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Perforations					
Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
13,031.0	13,033.0		5.0	10	Stage 25: Cluster 1
13,091.0	13,093.0		5.0	10	Stage 24: Cluster 4
13,151.0	13,153.0		5.0	10	Stage 24: Cluster 3
13,211.0	13,213.0		5.0	10	Stage 24: Cluster 2
13,271.0	13,273.0		5.0	10	Stage 24: Cluster 1
13,331.0	13,333.0		5.0	10	Stage 23: Cluster 4
13,391.0	13,393.0		5.0	10	Stage 23: Cluster 3
13,451.0	13,453.0		5.0	10	Stage 23: Cluster 2
13,511.0	13,513.0		5.0	10	Stage 23: Cluster 1
13,571.0	13,573.0		5.0	10	Stage 22: Cluster 4
13,631.0	13,633.0		5.0	10	Stage 22: Cluster 3
13,691.0	13,693.0		5.0	10	Stage 22: Cluster 2
13,751.0	13,753.0		5.0	10	Stage 22: Cluster 1
13,811.0	13,813.0		5.0	10	Stage 21: Cluster 4
13,871.0	13,873.0		5.0	10	Stage 21: Cluster 3
13,931.0	13,933.0		5.0	10	Stage 21: Cluster 2
13,991.0	13,993.0		5.0	10	Stage 21: Cluster 1
14,051.0	14,053.0		5.0	10	Stage 20: Cluster 4
14,120.0	14,122.0		5.0	10	Stage 20: Cluster 3
14,171.0	14,173.0		5.0	10	Stage 20: Cluster 2
14,231.0	14,233.0		5.0	10	Stage 20: Cluster 1
14,291.0	14,293.0		5.0	10	Stage 19: Cluster 4
14,351.0	14,353.0		5.0	10	Stage 19: Cluster 3
14,411.0	14,413.0		5.0	10	Stage 19: Cluster 2
14,471.0	14,473.0		5.0	10	Stage 19: Cluster 1
14,531.0	14,533.0		5.0	10	Stage 18: Cluster 4
14,591.0	14,593.0		5.0	10	Stage 18: Cluster 3
14,646.0	14,648.0		5.0	10	Stage 18: Cluster 2
14,708.0	14,708.0		5.0	10	Stage 18: Cluster 1
14,771.0	14,773.0		5.0	10	Stage 17: Cluster 4
14,831.0	14,833.0		5.0	10	Stage 17: Cluster 3
14,891.0	14,893.0		5.0	10	Stage 17: Cluster 2
14,943.0	14,945.0		5.0	10	Stage 17: Cluster 1
15,011.0	15,013.0		5.0	10	Stage 16: Cluster 4
15,076.0	15,078.0		5.0	10	Stage 16: Cluster 3
15,131.0	15,133.0		5.0	10	Stage 16: Cluster 2
15,191.0	15,193.0		5.0	10	Stage 16: Cluster 1
15,251.0	15,253.0		5.0	10	Stage 15: Cluster 4
15,311.0	15,313.0		5.0	10	Stage 15: Cluster 3
15,371.0	15,373.0		5.0	10	Stage 15: Cluster 2
15,431.0	15,433.0		5.0	10	Stage 15: Cluster 1
15,488.0	15,490.0		5.0	10	Stage 14: Cluster 4
15,551.0	15,553.0		5.0	10	Stage 14: Cluster 3
15,611.0	15,613.0		5.0	10	Stage 14: Cluster 2
15,671.0	15,673.0		5.0	10	Stage 14: Cluster 1
15,731.0	15,733.0		5.0	10	Stage 13: Cluster 4
15,791.0	15,793.0		5.0	10	Stage 13: Cluster 3
15,851.0	15,853.0		5.0	10	Stage 13: Cluster 2
15,911.0	15,913.0		5.0	10	Stage 13: Cluster 1
15,971.0	15,973.0		5.0	10	Stage 12: Cluster 4
16,031.0	16,033.0		5.0	10	Stage 12: Cluster 3
16,091.0	16,093.0		5.0	10	Stage 12: Cluster 2
16,151.0	16,153.0		5.0	10	Stage 12: Cluster 1
16,211.0	16,213.0		5.0	10	Stage 11: Cluster 4

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

Perforations					
Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
16,271.0	16,273.0		5.0	10	Stage 11: Cluster 3
16,331.0	16,333.0		5.0	10	Stage 11: Cluster 2
16,391.0	16,393.0		5.0	10	Stage 11: Cluster 1
16,451.0	16,453.0		5.0	10	Stage 10: Cluster 4
16,511.0	16,513.0		5.0	10	Stage 10: Cluster 3
16,571.0	16,573.0		5.0	10	Stage 10: Cluster 2
16,631.0	16,633.0		5.0	10	Stage 10: Cluster 1
16,691.0	16,693.0		5.0	10	Stage 9: Cluster 3
16,751.0	16,753.0		5.0	10	Stage 9: Cluster 2
16,811.0	16,813.0		5.0	10	Stage 9: Cluster 1
16,871.0	16,873.0		5.0	10	Stage 8: Cluster 3
16,931.0	16,933.0		5.0	10	Stage 8: Cluster 2
16,991.0	16,993.0		5.0	10	Stage 8: Cluster 1
17,051.0	17,053.0		5.0	10	Stage 7: Cluster 3
17,111.0	17,113.0		5.0	10	Stage 7: Cluster 2
17,171.0	17,173.0		5.0	10	Stage 7: Cluster 1
17,231.0	17,233.0		5.0	10	Stage 6: Cluster 3
17,291.0	17,293.0		5.0	10	Stage 6: Cluster 2
17,351.0	17,353.0		5.0	10	Stage 6: Cluster 1
17,411.0	17,413.0		5.0	10	Stage 5: Cluster 3
17,471.0	17,473.0		5.0	10	Stage 5: Cluster 2
17,531.0	17,533.0		5.0	10	Stage 5: Cluster 1
17,591.0	17,593.0		5.0	10	Stage 4: Cluster 3
17,651.0	17,653.0		5.0	10	Stage 4: Cluster 2
17,711.0	17,713.0		5.0	10	Stage 4: Cluster 1
17,771.0	17,773.0		5.0	10	Stage 3: Cluster 3
17,831.0	17,833.0		5.0	10	Stage 3: Cluster 2
17,891.0	17,893.0		5.0	10	Stage 3: Cluster 1
17,951.0	17,953.0		5.0	10	Stage 2: Cluster 3
18,011.0	18,013.0		5.0	10	Stage 2: Cluster 2
18,071.0	18,073.0		5.0	10	Stage 2: Cluster 1
18,131.0	18,133.0		5.0	10	Stage 1: Cluster 3
18,191.0	18,193.0		5.0	10	Stage 1: Cluster 2
18,259.0	18,260.0		5.0	10	Stage 1: Cluster 1

Completion (FRAC) Details

Slickwater on 5/8/2015 13:25

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/8/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	18,131.0	18,260.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	7,557.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	7,557.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	2,082.0	lb	30/50	0.25
Brown Sand	Bulk Sand	4,683.0	lb	30/50	0.50
Brown Sand	Bulk Sand	15,097.0	lb	30/50	0.75
Brown Sand	Bulk Sand	9,431.0	lb	30/50	1.00
Brown Sand	Bulk Sand	2,949.0	lb	30/50	0.25
Brown Sand	Bulk Sand	4,900.0	lb	30/50	0.50
Brown Sand	Bulk Sand	14,318.0	lb	30/50	0.75
Brown Sand	Bulk Sand	8,910.0	lb	30/50	1.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	4,476.0	lb	30/50	0.25
Brown Sand	Bulk Sand	4,538.0	lb	30/50	0.50
Brown Sand	Bulk Sand	14,502.0	lb	30/50	0.75
Brown Sand	Bulk Sand	14,624.0	lb	30/50	1.00
Brown Sand	Bulk Sand	13,769.0	lb	30/50	1.00
Brown Sand	Bulk Sand	23,775.0	lb	30/50	1.50
Brown Sand	Bulk Sand	41,289.0	lb	30/50	2.00

Slickwater on 5/8/2015 23:20

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/8/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	17,951.0	18,073.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	7,419.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	7,419.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
5 Brown Sand	Bulk Sand	36,092.0	lb	40/70	2.00
1 Brown Sand	Bulk Sand	2,718.0	lb	40/70	0.25
10 Brown Sand	Bulk Sand	4,411.0	lb	40/70	0.50
11 Brown Sand	Bulk Sand	15,385.0	lb	40/70	0.75
12 Brown Sand	Bulk Sand	15,286.0	lb	40/70	1.00
13 Brown Sand	Bulk Sand	14,655.0	lb	40/70	1.00
14 Brown Sand	Bulk Sand	25,216.0	lb	40/70	1.50
2 Brown Sand	Bulk Sand	4,592.0	lb	40/70	0.50
3 Brown Sand	Bulk Sand	14,674.0	lb	40/70	0.75
4 Brown Sand	Bulk Sand	9,991.0	lb	40/70	1.00
5 Brown Sand	Bulk Sand	2,860.0	lb	40/70	0.25
6 Brown Sand	Bulk Sand	5,086.0	lb	40/70	0.50
7 Brown Sand	Bulk Sand	14,478.0	lb	40/70	0.75
8 Brown Sand	Bulk Sand	10,213.0	lb	40/70	1.00
9 Brown Sand	Bulk Sand	3,822.0	lb	40/70	0.25
Brown Sand	Bulk Sand		lb	30/50	0.50
Brown Sand	Bulk Sand		lb	30/50	0.75
Brown Sand	Bulk Sand		lb	30/50	1.00
Brown Sand	Bulk Sand		lb	30/50	0.25
Brown Sand	Bulk Sand		lb	30/50	0.50
Brown Sand	Bulk Sand		lb	30/50	0.75
Brown Sand	Bulk Sand		lb	30/50	1.00
Brown Sand	Bulk Sand		lb	30/50	0.25
Brown Sand	Bulk Sand		lb	30/50	0.50
Brown Sand	Bulk Sand		lb	30/50	0.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand		lb	30/50	1.00
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand		lb	30/50	1.00
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand		lb	30/50	1.50
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand		lb	30/50	2.00

Slickwater on 5/9/2015 08:08

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/9/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	17,771.0	17,893.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	7,420.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	7,420.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	1,788.0	lb	30/50	0.25
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	5,084.0	lb	30/50	0.50
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	14,809.0	lb	30/50	0.75
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	9,685.0	lb	30/50	1.00
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	2,990.0	lb	30/50	0.25
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	4,951.0	lb	30/50	0.50
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	15,300.0	lb	30/50	0.75
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	9,732.0	lb	30/50	1.00
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	3,428.0	lb	30/50	0.25
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	5,082.0	lb	30/50	0.50
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	15,519.0	lb	30/50	0.75
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	14,405.0	lb	30/50	1.00
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	14,478.0	lb	30/50	1.00
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	26,198.0	lb	30/50	1.50
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	36,931.0	lb	30/50	2.00

Slickwater on 5/9/2015 22:45

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/9/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	17,591.0	17,713.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	6,864.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	6,864.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
1 Brown Sand	Bulk Sand	3,108.0	lb	40/70	0.25
Additive	Type	Amount	Units	Sand Size	Concentration...
10 Brown Sand	Bulk Sand	5,035.0	lb	40/70	0.50
Additive	Type	Amount	Units	Sand Size	Concentration...
11 Brown Sand	Bulk Sand	15,680.0	lb	40/70	0.75
Additive	Type	Amount	Units	Sand Size	Concentration...
12 Brown Sand	Bulk Sand	15,000.0	lb	40/70	1.00
Additive	Type	Amount	Units	Sand Size	Concentration...
13 Brown Sand	Bulk Sand	15,201.0	lb	40/70	1.00
Additive	Type	Amount	Units	Sand Size	Concentration...
14 Brown Sand	Bulk Sand	25,901.0	lb	40/70	1.50
Additive	Type	Amount	Units	Sand Size	Concentration...
15 Brown Sand	Bulk Sand	32,288.0	lb	40/70	2.00
Additive	Type	Amount	Units	Sand Size	Concentration...
2 Brown Sand	Bulk Sand	4,895.0	lb	40/70	0.50

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
3 Brown Sand	Bulk Sand	14,993.0	lb	40/70	0.75
4 Brown Sand	Bulk Sand	10,599.0	lb	40/70	1.00
5 Brown Sand	Bulk Sand	2,875.0	lb	40/70	0.25
6 Brown Sand	Bulk Sand	4,963.0	lb	40/70	0.50
7 Brown Sand	Bulk Sand	15,346.0	lb	40/70	0.75
8 Brown Sand	Bulk Sand	10,086.0	lb	40/70	1.00
9 Brown Sand	Bulk Sand	3,960.0	lb	40/70	0.25
Brown Sand	Bulk Sand		lb	30/50	0.50
Brown Sand	Bulk Sand		lb	30/50	0.75
Brown Sand	Bulk Sand		lb	30/50	1.00
Brown Sand	Bulk Sand		lb	30/50	0.25
Brown Sand	Bulk Sand		lb	30/50	0.50
Brown Sand	Bulk Sand		lb	30/50	0.75
Brown Sand	Bulk Sand		lb	30/50	1.00
Brown Sand	Bulk Sand		lb	30/50	0.25
Brown Sand	Bulk Sand		lb	30/50	0.50
Brown Sand	Bulk Sand		lb	30/50	0.75
Brown Sand	Bulk Sand		lb	30/50	1.00
Brown Sand	Bulk Sand		lb	30/50	1.50
Brown Sand	Bulk Sand		lb	30/50	2.00

Slickwater on 5/10/2015 07:15

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/10/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	17,411.0	17,533.0

GEL

Fluid Name	Total Clean Volume (bbi)
7.5% HCl	7,708.00
Fluid Name	Total Clean Volume (bbi)
Slickwater	7,708.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	3,798.0	lb	40/70	0.25
Brown Sand	Bulk Sand	4,247.0	lb	40/70	0.50
Brown Sand	Bulk Sand	13,704.0	lb	40/70	0.75
Brown Sand	Bulk Sand	9,644.0	lb	40/70	1.00
Brown Sand	Bulk Sand	2,545.0	lb	40/70	0.25
Brown Sand	Bulk Sand	4,566.0	lb	40/70	0.50
Brown Sand	Bulk Sand	13,720.0	lb	40/70	0.75
Brown Sand	Bulk Sand	9,045.0	lb	40/70	1.00
Brown Sand	Bulk Sand	3,420.0	lb	40/70	0.25
Brown Sand	Bulk Sand	4,472.0	lb	40/70	0.50
Brown Sand	Bulk Sand	13,502.0	lb	40/70	0.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	14,595.0	lb	40/70	1.00
Brown Sand	Bulk Sand	13,227.0	lb	40/70	1.00
Brown Sand	Bulk Sand	25,456.0	lb	40/70	1.50
Brown Sand	Bulk Sand	43,931.0	lb	40/70	2.00

Slickwater on 5/10/2015 13:15

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/10/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	17,231.0	17,353.0

GEL	
Fluid Name	Total Clean Volume (bbl)
7.5% HCl	7,396.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	7,396.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	2,630.0	lb	40/70	0.25
Brown Sand	Bulk Sand	4,396.0	lb	40/70	0.50
Brown Sand	Bulk Sand	15,599.0	lb	40/70	0.75
Brown Sand	Bulk Sand	10,336.0	lb	40/70	1.00
Brown Sand	Bulk Sand	2,256.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,040.0	lb	40/70	0.50
Brown Sand	Bulk Sand	14,899.0	lb	40/70	0.75
Brown Sand	Bulk Sand	9,372.0	lb	40/70	1.00
Brown Sand	Bulk Sand	1,353.0	lb	40/70	0.25
Brown Sand	Bulk Sand	3,769.0	lb	40/70	0.50
Brown Sand	Bulk Sand	15,160.0	lb	40/70	0.75
Brown Sand	Bulk Sand	14,320.0	lb	40/70	1.00
Brown Sand	Bulk Sand	14,385.0	lb	40/70	1.00
Brown Sand	Bulk Sand	26,026.0	lb	40/70	1.50
Brown Sand	Bulk Sand	38,956.0	lb	40/70	2.00

Slickwater on 5/10/2015 21:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/10/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	17,051.0	17,173.0

GEL	
Fluid Name	Total Clean Volume (bbl)
7.5% HCl	7,328.00
Fluid Name	Total Clean Volume (bbl)
Slickwater	7,328.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
1 Brown Sand	Bulk Sand	2,766.0	lb	40/70	0.25
Brown Sand	Bulk Sand	4,976.0	lb	40/70	0.50
Brown Sand	Bulk Sand	15,577.0	lb	40/70	0.75
Brown Sand	Bulk Sand	10,013.0	lb	30/50	1.00
1 Brown Sand	Bulk Sand	2,993.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,523.0	lb	40/70	0.50
Brown Sand	Bulk Sand	14,983.0	lb	40/70	0.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	10,134.0	lb	40/70	1.00
Brown Sand	Bulk Sand	3,511.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,058.0	lb	40/70	0.50
Brown Sand	Bulk Sand	15,683.0	lb	40/70	0.75
Brown Sand	Bulk Sand	14,723.0	lb	40/70	1.00
Brown Sand	Bulk Sand		lb	30/50	1.00
Brown Sand	Bulk Sand	15,750.0	lb	40/70	1.00
Brown Sand	Bulk Sand	30,780.0	lb	40/70	1.50
Brown Sand	Bulk Sand	24,667.0	lb	40/70	2.00

Slickwater on 5/11/2015 05:20

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/11/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	16,871.0	16,993.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	7,306.00
Slickwater	7,306.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	2,840.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,300.0	lb	40/70	0.50
Brown Sand	Bulk Sand	14,363.0	lb	40/70	0.50
Brown Sand	Bulk Sand	10,206.0	lb	40/70	1.00
Brown Sand	Bulk Sand	2,343.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,027.0	lb	40/70	0.50
Brown Sand	Bulk Sand	14,290.0	lb	40/70	0.75
Brown Sand	Bulk Sand	9,889.0	lb	40/70	1.00
Brown Sand	Bulk Sand	3,278.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,046.0	lb	40/70	0.50
Brown Sand	Bulk Sand	14,868.0	lb	40/70	0.75
Brown Sand	Bulk Sand	15,332.0	lb	40/70	1.00
Brown Sand	Bulk Sand	15,730.0	lb	40/70	1.00
Brown Sand	Bulk Sand	26,597.0	lb	40/70	1.50
Brown Sand	Bulk Sand	32,861.0	lb	40/70	2.00

Slickwater on 5/11/2015 11:40

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/11/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	16,691.0	16,813.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	7,311.00
Slickwater	7,311.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	5,471.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,091.0	lb	40/70	0.50
Brown Sand	Bulk Sand	14,742.0	lb	40/70	0.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	10,178.0	lb	40/70	1.00
Brown Sand	Bulk Sand	2,755.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,186.0	lb	40/70	0.50
Brown Sand	Bulk Sand	14,647.0	lb	40/70	0.75
Brown Sand	Bulk Sand	10,204.0	lb	40/70	1.00
Brown Sand	Bulk Sand	3,666.0	lb	40/70	0.25
Brown Sand	Bulk Sand	5,189.0	lb	40/70	0.50
Brown Sand	Bulk Sand	14,909.0	lb	40/70	0.75
Brown Sand	Bulk Sand	15,155.0	lb	40/70	1.00
Brown Sand	Bulk Sand	14,475.0	lb	40/70	1.00
Brown Sand	Bulk Sand	42,207.0	lb	40/70	1.50
Brown Sand	Bulk Sand	17,661.0	lb		2.00

Slickwater on 5/12/2015 00:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/12/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	16,451.0	16,633.0

GEL

Fluid Name	Total Clean Volume (bbt)
7.5% HCl	9,133.00
Slickwater	9,133.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	3,493.0	lb	30/50	0.25
Brown Sand	Bulk Sand	7,316.0	lb	30/50	0.50
Brown Sand	Bulk Sand	19,198.0	lb	30/50	0.75
Brown Sand	Bulk Sand		lb	30/50	1.00
Brown Sand	Bulk Sand	5,175.0	lb	30/50	0.25
Brown Sand	Bulk Sand	10,018.0	lb	30/50	0.50
Brown Sand	Bulk Sand	19,908.0	lb	30/50	0.75
Brown Sand	Bulk Sand	8,815.0	lb	30/50	1.00
Brown Sand	Bulk Sand	4,501.0	lb	30/50	0.25
Brown Sand	Bulk Sand	10,457.0	lb	30/50	0.50
Brown Sand	Bulk Sand	20,754.0	lb	30/50	0.75
Brown Sand	Bulk Sand	29,509.0	lb	30/50	1.00
Brown Sand	Bulk Sand	0.0	lb	30/50	1.00
Brown Sand	Bulk Sand	62,121.0	lb	30/50	1.50
Brown Sand	Bulk Sand	19,653.0	lb	30/50	2.00
Brown Sand	Bulk Sand	19,626.0	lb	30/50	2.00

Slickwater on 5/12/2015 09:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/12/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	16,211.0	16,393.0

GEL

Fluid Name	Total Clean Volume (bbt)
7.5% HCl	8,834.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

GEL					
Fluid Name Slickwater					Total Clean Volume (bbl) 8,834.00
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 3,742.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 6,091.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 19,411.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 14,387.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 4,858.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 5,062.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 19,485.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 40,223.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 0.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 40,222.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 40,223.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 9,906.0	Units lb	Sand Size 30/50	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 38,052.0	Units lb	Sand Size 30/50	Concentration... 2.00
Slickwater on 5/13/2015 00:06					
Date 5/13/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 15,971.0	Max Btm Depth (ftKB) 16,153.0
GEL					
Fluid Name 7.5% HCl					Total Clean Volume (bbl) 9,555.00
Fluid Name Slickwater					Total Clean Volume (bbl) 9,555.00
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 3,090.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 14,047.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 21,440.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 36,746.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 14,753.0	Units lb	Sand Size 30/50	Concentration... 1.25
Additive Brown Sand	Type Bulk Sand	Amount 5,452.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 11,202.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 23.097	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 46,541.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 38,792.0	Units lb	Sand Size 30/50	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 20,549.0	Units lb	Sand Size 30/50	Concentration... 2.00
Additive Brown Sand	Type Bulk Sand	Amount	Units lb	Sand Size 30/50	Concentration... 1.00
Slickwater on 5/13/2015 11:30					
Date 5/13/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 15,731.0	Max Btm Depth (ftKB) 15,913.0
GEL					
Fluid Name 7.5% HCl					Total Clean Volume (bbl) 10,086.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

GEL					
Fluid Name Slickwater					Total Clean Volume (bbl) 10,086.00
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 3,245.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 6,506.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 19,661.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 13,615.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 4,390.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 6,575.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 16,909.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 5,015.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 6,988.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 18,605.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 3,861.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive	Type	Amount	Units	Sand Size	Concentration...
Additive Brown Sand	Type Bulk Sand	Amount 8,343.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 12,727.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 16,366.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 24,968.0	Units lb	Sand Size 30/50	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 68,138.0	Units lb	Sand Size 30/50	Concentration... 2.00
Slickwater on 5/14/2015 04:00					
Date 5/14/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 15,491.0	Max Btm Depth (ftKB) 15,673.0
GEL					
Fluid Name 7.5% HCl					Total Clean Volume (bbl) 9,481.00
Fluid Name Slickwater					Total Clean Volume (bbl) 9,481.00
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 18,479.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 30,264.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 32,447.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 43,053.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 42,470.0	Units lb	Sand Size 30/50	Concentration... 1.25
Additive Brown Sand	Type Bulk Sand	Amount 20,460.0	Units lb	Sand Size 30/50	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 24,559.0	Units lb	Sand Size 30/50	Concentration... 1.75
Additive Brown Sand	Type Bulk Sand	Amount 29,298.0	Units lb	Sand Size 30/50	Concentration... 2.00
Additive	Type	Amount	Units	Sand Size	Concentration...
Slickwater on 5/14/2015 11:15					
Date 5/14/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 15,251.0	Max Btm Depth (ftKB) 15,433.0
GEL					
Fluid Name 7.5% HCl					Total Clean Volume (bbl) 9,800.00
Fluid Name Slickwater					Total Clean Volume (bbl) 9,800.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	20,755.0	lb	30/50	0.25
Brown Sand	Bulk Sand	40,448.0	lb	30/50	0.50
Brown Sand	Bulk Sand	32,547.0	lb	30/50	0.75
Brown Sand	Bulk Sand	65,042.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,686.0	lb	30/50	1.25
Brown Sand	Bulk Sand	21,103.0	lb	30/50	1.50
Brown Sand	Bulk Sand	18,431.0	lb	30/50	1.75
Brown Sand	Bulk Sand		lb	30/50	0.75
Brown Sand	Bulk Sand		lb	30/50	1.00

Slickwater on 5/15/2015 03:12

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/15/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	15,011.0	15,193.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	7,973.00
Slickwater	7,973.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	18,669.0	lb	30/50	0.25
Brown Sand	Bulk Sand	39,063.0	lb	30/50	0.50
Brown Sand	Bulk Sand	32,987.0	lb	30/50	0.75
Brown Sand	Bulk Sand	34,469.0	lb	30/50	1.00
Brown Sand	Bulk Sand	5,439.0	lb	30/50	0.50

Slickwater on 5/15/2015 17:39

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/15/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	14,771.0	14,953.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	10,116.00
Linear Gel	10,116.00
Slickwater	10,116.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	1,278.0	lb	30/50	0.25
Brown Sand	Bulk Sand	19,736.0	lb	30/50	0.25
Brown Sand	Bulk Sand	46,761.0	lb	30/50	0.50
Brown Sand	Bulk Sand	32,751.0	lb	30/50	0.75
Brown Sand	Bulk Sand	43,008.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,830.0	lb	30/50	1.25
Brown Sand	Bulk Sand	21,400.0	lb	30/50	1.50
Brown Sand	Bulk Sand	24,720.0	lb	30/50	1.75
Brown Sand	Bulk Sand	4,392.0	lb	30/50	2.00

Slickwater on 5/16/2015 00:50

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/16/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	14,531.0	14,713.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,220.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

GEL					
Fluid Name Linear Gel			Total Clean Volume (bbl) 9,220.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,220.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	20,218.0	lb	30/50	0.25
Brown Sand	Bulk Sand	39,520.0	lb	30/50	0.50
Brown Sand	Bulk Sand	32,433.0	lb	30/50	0.75
Brown Sand	Bulk Sand	43,248.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,649.0	lb	30/50	1.25
Brown Sand	Bulk Sand	20,580.0	lb	30/50	1.50
Brown Sand	Bulk Sand	24,474.0	lb	30/50	1.75
Brown Sand	Bulk Sand	15,830.0	lb	30/50	2.00
Slickwater on 5/16/2015 09:30					
Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/16/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	14,291.0	14,473.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,217.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 9,217.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,217.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	19,730.0	lb	30/50	0.25
Brown Sand	Bulk Sand	39,459.0	lb	30/50	0.50
Brown Sand	Bulk Sand	32,450.0	lb	30/50	0.75
Brown Sand	Bulk Sand	43,386.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,733.0	lb	30/50	1.25
Brown Sand	Bulk Sand	20,979.0	lb	30/50	1.50
Brown Sand	Bulk Sand	24,476.0	lb	30/50	1.75
Brown Sand	Bulk Sand	17,270.0	lb	30/50	2.00
Slickwater on 5/16/2015 16:17					
Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/16/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	14,051.0	14,233.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,265.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 9,265.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,265.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	19,001.0	lb	30/50	0.25
Brown Sand	Bulk Sand	40,158.0	lb	30/50	0.50
Brown Sand	Bulk Sand	32,364.0	lb	30/50	0.75
Brown Sand	Bulk Sand	43,879.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,702.0	lb	30/50	1.25
Brown Sand	Bulk Sand	21,705.0	lb	30/50	1.50
Brown Sand	Bulk Sand	24,578.0	lb	30/50	1.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	9,254.0	lb	30/50	2.00
Brown Sand	Bulk Sand		lb	30/50	1.00

Slickwater on 5/17/2015 12:35					
Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/17/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	13,811.0	13,993.0

GEL	
Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,184.00
Linear Gel	9,184.00
Slickwater	9,184.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	18,428.0	lb	30/50	0.25
Brown Sand	Bulk Sand	40,917.0	lb	30/50	0.50
Brown Sand	Bulk Sand	34,174.0	lb	30/50	0.75
Brown Sand	Bulk Sand	42,875.0	lb	30/50	1.00
Brown Sand	Bulk Sand	44,044.0	lb	30/50	1.25
Brown Sand	Bulk Sand	21,227.0	lb	30/50	1.50
Brown Sand	Bulk Sand	24,782.0	lb	30/50	1.75
Brown Sand	Bulk Sand	12,543.0	lb	30/50	2.00

Slickwater on 5/18/2015 03:00					
Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/18/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	13,571.0	13,753.0

GEL	
Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,286.00
Linear Gel	9,286.00
Slickwater	9,286.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	19,730.0	lb	30/50	0.25
Brown Sand	Bulk Sand	39,459.0	lb	30/50	0.50
Brown Sand	Bulk Sand	32,450.0	lb	30/50	0.75
Brown Sand	Bulk Sand	43,386.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,733.0	lb	30/50	1.25
Brown Sand	Bulk Sand	20,979.0	lb	30/50	1.50
Brown Sand	Bulk Sand	24,476.0	lb	30/50	1.75
Brown Sand	Bulk Sand	19,619.0	lb	30/50	2.00

Slickwater on 5/18/2015 11:24					
Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/18/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	13,331.0	13,513.0

GEL	
Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,085.00
Linear Gel	9,085.00
Slickwater	9,085.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	18,864.0	lb	30/50	0.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	38,245.0	lb	30/50	0.50
Brown Sand	Bulk Sand	34,023.0	lb	30/50	0.75
Brown Sand	Bulk Sand	43,205.0	lb	30/50	1.00
Brown Sand	Bulk Sand	44,879.0	lb	30/50	1.25
Brown Sand	Bulk Sand	22,437.0	lb	30/50	1.50
Brown Sand	Bulk Sand	24,844.0	lb	30/50	1.75
Brown Sand	Bulk Sand	11,030.0	lb	30/50	2.00

Slickwater on 5/18/2015 19:46

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/18/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	13,091.0	13,273.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,068.00
Linear Gel	9,068.00
Slickwater	9,068.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	18,073.0	lb	30/50	0.25
Brown Sand	Bulk Sand	41,699.0	lb	30/50	0.50
Brown Sand	Bulk Sand	34,035.0	lb	30/50	0.75
Brown Sand	Bulk Sand	44,018.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,842.0	lb	30/50	1.25
Brown Sand	Bulk Sand	21,393.0	lb	30/50	1.50
Brown Sand	Bulk Sand	24,237.0	lb	30/50	1.75
Brown Sand	Bulk Sand	11,811.0	lb	30/50	2.00

Slickwater on 5/19/2015 02:59

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/19/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	12,851.0	13,033.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,131.00
Linear Gel	9,131.00
Slickwater	9,131.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	15,244.0	lb	30/50	0.25
Brown Sand	Bulk Sand	43,427.0	lb	30/50	0.50
Brown Sand	Bulk Sand	32,008.0	lb	30/50	0.75
Brown Sand	Bulk Sand	43,129.0	lb	30/50	1.00
Brown Sand	Bulk Sand	41,966.0	lb	30/50	1.25
Brown Sand	Bulk Sand	20,233.0	lb	30/50	1.50
Brown Sand	Bulk Sand	22,966.0	lb	30/50	1.75
Brown Sand	Bulk Sand	18,346.0	lb	30/50	2.00

Slickwater on 5/19/2015 13:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/19/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	12,611.0	12,793.0

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,172.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 9,172.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,172.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 19,730.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 39,459.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 32,450.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 43,386.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 43,733.0	Units lb	Sand Size 30/50	Concentration... 1.25
Additive Brown Sand	Type Bulk Sand	Amount 20,979.0	Units lb	Sand Size 30/50	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 24,476.0	Units lb	Sand Size 30/50	Concentration... 1.75
Additive Brown Sand	Type Bulk Sand	Amount 13,908.0	Units lb	Sand Size 30/50	Concentration... 2.00
Slickwater on 5/19/2015 20:01					
Date 5/19/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 12,371.0	Max Btm Depth (ftKB) 12,553.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,947.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 8,947.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,947.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 19,604.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 42,600.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 35,008.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 43,323.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 43,999.0	Units lb	Sand Size 30/50	Concentration... 1.25
Additive Brown Sand	Type Bulk Sand	Amount 22,465.0	Units lb	Sand Size 30/50	Concentration... 1.50
Additive Brown Sand	Type Bulk Sand	Amount 25,802.0	Units lb	Sand Size 30/50	Concentration... 1.75
Additive Brown Sand	Type Bulk Sand	Amount 4,875.0	Units lb	Sand Size 30/50	Concentration... 2.00
Slickwater on 5/20/2015 06:00					
Date 5/20/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 12,131.0	Max Btm Depth (ftKB) 12,313.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,525.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 9,525.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,525.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 18,975.0	Units lb	Sand Size 30/50	Concentration... 0.25
Additive Brown Sand	Type Bulk Sand	Amount 42,564.0	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount 32,027.0	Units lb	Sand Size 30/50	Concentration... 0.75
Additive Brown Sand	Type Bulk Sand	Amount 43,915.0	Units lb	Sand Size 30/50	Concentration... 1.00
Additive Brown Sand	Type Bulk Sand	Amount 43,936.0	Units lb	Sand Size 30/50	Concentration... 1.25
Additive Brown Sand	Type Bulk Sand	Amount 20,607.0	Units lb	Sand Size 30/50	Concentration... 1.50

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	23,415.0	lb	30/50	1.75
Brown Sand	Bulk Sand	11,418.0	lb	30/50	2.00

Slickwater on 5/20/2015 15:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/20/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	11,891.0	12,073.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,944.00
Slickwater	8,944.00
Linear Gel	8,944.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	237,111.0	lb	30/50	0.00

Slickwater on 5/21/2015 00:01

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/21/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	11,651.0	11,833.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,858.00
Slickwater	8,858.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	236,455.0	lb	30/50	2.00

Slickwater on 5/21/2015 04:27

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/21/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	11,411.0	11,593.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,011.00
Linear Gel	9,011.00
Slickwater	9,011.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	17,589.0	lb	30/50	0.25
Brown Sand	Bulk Sand	39,889.0	lb	30/50	0.50
Brown Sand	Bulk Sand	30,606.0	lb	30/50	0.75
Brown Sand	Bulk Sand	45,593.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,661.0	lb	30/50	1.25
Brown Sand	Bulk Sand	21,945.0	lb	30/50	1.50
Brown Sand	Bulk Sand	25,768.0	lb	30/50	1.75
Brown Sand	Bulk Sand	15,413.0	lb	30/50	2.00

Slickwater on 5/21/2015 12:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/21/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	11,171.0	11,353.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,145.00
Linear Gel	9,145.00
Slickwater	9,145.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	18,562.0	lb	30/50	0.25
Brown Sand	Bulk Sand	37,987.0	lb	30/50	0.50

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	33,245.0	lb	30/50	0.75
Brown Sand	Bulk Sand	43,490.0	lb	30/50	1.00
Brown Sand	Bulk Sand	43,845.0	lb	30/50	1.25
Brown Sand	Bulk Sand	21,769.0	lb	30/50	1.50
Brown Sand	Bulk Sand	25,143.0	lb	30/50	1.75
Brown Sand	Bulk Sand	14,234.0	lb	30/50	2.00

Slickwater on 5/21/2015 19:45

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/21/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	10,931.0	11,113.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,871.00
Linear Gel	8,871.00
Slickwater	8,871.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,550.0	lb	30/50	0.00

Slickwater on 5/22/2015 00:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/22/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	10,691.0	10,873.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,420.00
Linear Gel	9,420.00
Slickwater	9,420.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	239,238.0	lb	30/50	2.00

Slickwater on 5/23/2015 00:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/23/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	10,451.0	10,633.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,346.00
Linear Gel	9,346.00
Slickwater	9,346.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	238,317.0	lb	30/50	2.00

Slickwater on 5/23/2015 09:20

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/23/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	10,211.0	10,393.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,370.00
Slickwater	9,370.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	239,841.0	lb	30/50	2.00

Slickwater on 5/23/2015 18:15

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
5/23/2015	Slickwater	Wolfcamp D, Original Hole	PIONEER PUMPING SERVICES	9,971.0	10,153.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,733.00
Slickwater	8,733.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

GEL					
Fluid Name Gel			Total Clean Volume (bbl) 8,733.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 226,771.0	Units lb	Sand Size 30/50	Concentration...
Additive Brown Sand	Type Bulk Sand	Amount	Units lb	Sand Size 30/50	Concentration... 0.50
Additive Brown Sand	Type Bulk Sand	Amount	Units lb	Sand Size 30/50	Concentration... 0.75
Slickwater on 5/24/2015 06:01					
Date 5/24/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 9,731.0	Max Btm Depth (ftKB) 9,913.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,938.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 8,938.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,938.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 239,999.0	Units lb	Sand Size 30/50	Concentration... 2.00
Slickwater on 5/24/2015 11:52					
Date 5/24/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 9,491.0	Max Btm Depth (ftKB) 9,673.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,796.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 8,796.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,796.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 244,703.0	Units lb	Sand Size 30/50	Concentration... 2.00
Slickwater on 5/24/2015 20:54					
Date 5/24/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 9,251.0	Max Btm Depth (ftKB) 9,433.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,763.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 8,763.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,763.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 239,971.0	Units lb	Sand Size 30/50	Concentration... 0.00
Slickwater on 5/25/2015 11:36					
Date 5/25/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 9,011.0	Max Btm Depth (ftKB) 9,193.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,785.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 8,785.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,785.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 242,286.0	Units lb	Sand Size 30/50	Concentration... 2.00
Slickwater on 5/25/2015 19:20					
Date 5/25/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 8,771.0	Max Btm Depth (ftKB) 8,953.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,714.00		
Fluid Name Linear Gel			Total Clean Volume (bbl) 8,714.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,714.00		

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 37H

SAND & ACID

Additive Brown Sand	Type Bulk Sand	Amount 244,429.0	Units lb	Sand Size 30/50	Concentration...
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Slickwater on 5/26/2015 03:10

Date 5/26/2015	Type Slickwater	Zone Wolfcamp D, Original Hole	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 8,531.0	Max Btm Depth (ftKB) 8,713.0
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GEL

Fluid Name 7.5% HCl	Total Clean Volume (bbl) 8,283.00
Fluid Name Slickwater	Total Clean Volume (bbl) 8,283.00

SAND & ACID

Additive Brown Sand	Type Bulk Sand	Amount 214,648.0	Units lb	Sand Size 30/50	Concentration... 0.00
Additive Brown Sand	Type Bulk Sand	Amount	Units lb	Sand Size 30/50	Concentration... 0.50

Zones

Zone Name	Top (ftKB)
Wolfcamp D	
Wolfcamp B 2	

Tubing Details

Tubing Description	Set Depth (ftKB)	Run Date
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Tubing Components

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

Rod Strings

Rod Description	Set Depth (ftKB)	Run Date
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Rod Components

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

Other In Hole

Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug 1	18,259.0	18,261.0	4.788	5/8/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 2	18,088.0	18,090.0	4.788	5/8/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 3	17,908.0	17,910.0	4.788	5/9/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 4	17,734.0	17,736.0	4.788	5/9/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 5	17,548.0	17,550.0	4.788	5/10/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 6	17,368.0	17,370.0	4.788	5/10/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 7	17,188.0	17,190.0	4.788	5/10/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 8	17,008.0	17,010.0	4.788	5/11/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 9	16,828.0	16,830.0	4.788	5/11/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 10	16,648.0	16,650.0	4.788	5/11/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 11	16,408.0	16,410.0	4.788	5/12/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 12	16,180.0	16,182.0	4.788	5/12/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 13	15,928.0	15,930.0	4.788	5/13/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 14	15,688.0	15,690.0	4.788	5/13/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 15	15,455.0	15,457.0	4.788	5/14/2015		Production, 18,417.0ftKB	Original Hole

Other In Hole							
Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug 16	15,208.0	15,210.0	4.788	5/14/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 17	14,968.0	14,970.0	4.788	5/15/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 18	14,726.0	14,728.0	4.788	5/15/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 19	14,492.0	14,494.0	4.788	5/16/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 20	14,248.0	14,250.0	4.788	5/16/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 21	14,012.0	14,014.0	4.788	5/16/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 22	13,768.0	13,770.0	4.788	5/17/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 23	13,538.0	13,540.0	4.788	5/18/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 24	13,288.0	13,290.0	4.788	5/18/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 25	13,048.0	13,050.0	4.788	5/18/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 26	12,811.0	12,813.0	4.788	5/19/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 27	12,572.0	12,574.0	4.788	5/19/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 28	12,328.0	12,330.0	4.788	5/19/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 29	12,088.0	12,090.0	4.788	5/20/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 30	11,848.0	11,850.0	4.788	5/20/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 31	11,612.0	11,614.0	4.788	5/21/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 32	11,368.0	11,370.0	4.788	5/21/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 33	11,128.0	11,130.0	4.788	5/21/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 34	10,888.0	10,890.0	4.788	5/21/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 35	10,648.0	10,650.0	4.788	5/22/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 36	10,408.0	10,410.0	4.788	5/23/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 37	10,168.0	10,170.0	4.788	5/23/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 38	9,928.0	9,930.0	4.788	5/23/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 39	9,688.0	9,690.0	4.788	5/24/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 40	9,448.0	9,450.0	4.788	5/24/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 41	9,214.0	9,216.0	4.788	5/24/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 42	8,968.0	8,970.0	4.788	5/25/2015		Production, 18,417.0ftKB	Original Hole
Composite Plug 43	8,728.0	8,730.0	4.788	5/25/2015		Production, 18,417.0ftKB	Original Hole
Kill Plug	8,488.0	8,490.0	4.788	6/24/2015		Production, 18,417.0ftKB	Original Hole

Well Tests			
Description	Volume Oil Total (bbl)	Volume Gas Total (MCF)	Volume Water Total (bbl)

Start Date	End Date	Sz Dia Choke (in)	P Tub End (psi)	P Cas End (psi)	Com	Vol Oil Tot (bbl)	Vol Gas Tot (MCF)	Vol Water Tot (bbl)
Directional Survey								
Date		Description						
2/9/2015		MAIN HOLE SURVEY						
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company		
2/9/2015	0.00	0.00	0.00	0.00	0.00	VES		
2/9/2015	100.00	0.57	265.96	100.00	0.50	VES		
2/9/2015	200.00	0.92	279.50	199.99	1.79	VES		
2/9/2015	300.00	0.70	273.58	299.98	3.20	VES		
2/9/2015	400.00	0.93	280.41	399.97	4.62	VES		
2/9/2015	500.00	0.69	277.69	499.96	6.03	VES		
2/9/2015	600.00	0.80	298.18	599.95	7.31	VES		
2/9/2015	700.00	0.84	272.09	699.94	8.71	VES		
2/9/2015	735.00	0.78	265.86	734.94	9.20	VES		
2/9/2015	801.00	0.79	263.70	800.93	10.11	Leam Drilling Systems, Inc.		
2/9/2015	892.00	0.97	259.32	891.92	11.50	Leam Drilling Systems, Inc.		
2/9/2015	983.00	1.23	303.44	982.91	13.12	Leam Drilling Systems, Inc.		
2/9/2015	1,076.00	0.88	313.29	1,075.89	14.83	Leam Drilling Systems, Inc.		
2/9/2015	1,172.00	0.44	310.47	1,171.88	15.94	Leam Drilling Systems, Inc.		
2/9/2015	1,266.00	0.97	292.54	1,265.88	17.08	Leam Drilling Systems, Inc.		
2/9/2015	1,360.00	1.93	303.09	1,359.84	19.45	Leam Drilling Systems, Inc.		
2/9/2015	1,455.00	3.43	302.04	1,454.74	23.89	Leam Drilling Systems, Inc.		
2/9/2015	1,549.00	4.84	304.67	1,548.49	30.67	Leam Drilling Systems, Inc.		
2/9/2015	1,643.00	4.92	304.67	1,642.15	38.66	Leam Drilling Systems, Inc.		
2/9/2015	1,737.00	4.66	310.12	1,735.82	46.50	Leam Drilling Systems, Inc.		
2/9/2015	1,832.00	5.01	310.82	1,830.48	54.51	Leam Drilling Systems, Inc.		
2/9/2015	1,926.00	4.92	310.82	1,924.13	62.65	Leam Drilling Systems, Inc.		
2/9/2015	2,020.00	4.75	309.59	2,017.80	70.57	Leam Drilling Systems, Inc.		
2/9/2015	2,114.00	4.57	312.58	2,111.49	78.20	Leam Drilling Systems, Inc.		
2/13/2015	2,208.00	3.78	314.78	2,205.24	85.05	Leam Drilling Systems, Inc.		
2/13/2015	2,303.00	3.87	314.16	2,300.02	91.38	Leam Drilling Systems, Inc.		
2/13/2015	2,397.00	4.40	313.29	2,393.78	98.16	Leam Drilling Systems, Inc.		
2/13/2015	2,491.00	4.84	310.82	2,487.47	105.73	Leam Drilling Systems, Inc.		
2/13/2015	2,586.00	4.57	312.05	2,582.15	113.52	Leam Drilling Systems, Inc.		
2/13/2015	2,680.00	4.75	305.55	2,675.84	121.15	Leam Drilling Systems, Inc.		
2/13/2015	2,774.00	4.66	303.97	2,769.53	128.86	Leam Drilling Systems, Inc.		
2/13/2015	2,868.00	4.31	304.50	2,863.24	136.21	Leam Drilling Systems, Inc.		
2/13/2015	2,962.00	4.22	303.27	2,956.98	143.20	Leam Drilling Systems, Inc.		
2/13/2015	3,057.00	4.40	298.52	3,051.71	150.33	Leam Drilling Systems, Inc.		
2/13/2015	3,151.00	4.57	302.91	3,145.42	157.68	Leam Drilling Systems, Inc.		
2/13/2015	3,245.00	4.66	301.68	3,239.12	165.24	Leam Drilling Systems, Inc.		
2/13/2015	3,339.00	4.04	302.56	3,332.85	172.37	Leam Drilling Systems, Inc.		
2/13/2015	3,433.00	4.66	302.21	3,426.58	179.50	Leam Drilling Systems, Inc.		
2/13/2015	3,527.00	6.16	297.99	3,520.15	188.35	Leam Drilling Systems, Inc.		
2/13/2015	3,622.00	6.16	300.10	3,614.61	198.55	Leam Drilling Systems, Inc.		
2/13/2015	3,716.00	5.28	299.05	3,708.14	207.92	Leam Drilling Systems, Inc.		
2/13/2015	3,810.00	4.84	301.33	3,801.77	216.20	Leam Drilling Systems, Inc.		
2/13/2015	3,904.00	4.31	297.99	3,895.47	223.70	Leam Drilling Systems, Inc.		
2/13/2015	3,999.00	3.96	304.50	3,990.22	230.54	Leam Drilling Systems, Inc.		
2/13/2015	4,093.00	3.08	307.13	4,084.05	236.31	Leam Drilling Systems, Inc.		
2/13/2015	4,187.00	2.29	305.02	4,177.94	240.71	Leam Drilling Systems, Inc.		
2/13/2015	4,281.00	2.02	297.11	4,271.88	244.24	Leam Drilling Systems, Inc.		
2/13/2015	4,375.00	1.67	301.68	4,365.83	247.26	Leam Drilling Systems, Inc.		
2/13/2015	4,470.00	1.23	306.43	4,460.80	249.66	Leam Drilling Systems, Inc.		
2/13/2015	4,564.00	1.23	290.61	4,554.77	251.66	Leam Drilling Systems, Inc.		
2/13/2015	4,658.00	1.06	300.98	4,648.76	253.53	Leam Drilling Systems, Inc.		

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Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
2/13/2015	4,753.00	0.79	295.88	4,743.74	255.06	Leam Drilling Systems, Inc.
2/13/2015	4,847.00	0.44	147.70	4,837.74	255.45	Leam Drilling Systems, Inc.
2/13/2015	4,941.00	0.44	168.09	4,931.74	256.17	Leam Drilling Systems, Inc.
2/13/2015	5,035.00	0.09	178.29	5,025.74	256.60	Leam Drilling Systems, Inc.
2/13/2015	5,129.00	0.18	123.09	5,119.74	256.80	Leam Drilling Systems, Inc.
2/13/2015	5,224.00	0.26	173.54	5,214.74	257.13	Leam Drilling Systems, Inc.
2/14/2015	5,318.00	0.35	96.90	5,308.74	257.52	Leam Drilling Systems, Inc.
2/14/2015	5,412.00	0.03	131.18	5,402.73	257.83	Leam Drilling Systems, Inc.
2/14/2015	5,506.00	0.18	122.91	5,496.73	258.00	Leam Drilling Systems, Inc.
2/14/2015	5,601.00	0.44	35.02	5,591.73	258.40	Leam Drilling Systems, Inc.
2/14/2015	5,695.00	0.62	70.00	5,685.73	259.23	Leam Drilling Systems, Inc.
2/14/2015	5,789.00	0.44	138.91	5,779.73	259.95	Leam Drilling Systems, Inc.
2/14/2015	5,883.00	1.06	123.97	5,873.72	261.17	Leam Drilling Systems, Inc.
2/14/2015	5,977.00	1.06	126.61	5,967.70	262.91	Leam Drilling Systems, Inc.
2/14/2015	6,072.00	0.79	108.15	6,062.69	264.42	Leam Drilling Systems, Inc.
2/14/2015	6,166.00	0.70	110.96	6,156.68	265.65	Leam Drilling Systems, Inc.
2/14/2015	6,260.00	1.06	92.50	6,250.67	267.07	Leam Drilling Systems, Inc.
2/16/2015	6,355.00	1.67	68.60	6,345.64	269.29	Leam Drilling Systems, Inc.
2/16/2015	6,447.00	1.49	79.32	6,437.61	271.81	Leam Drilling Systems, Inc.
2/16/2015	6,542.00	0.97	105.34	6,532.59	273.80	Leam Drilling Systems, Inc.
2/16/2015	6,636.00	0.53	141.72	6,626.58	274.98	Leam Drilling Systems, Inc.
2/16/2015	6,730.00	0.53	126.43	6,720.58	275.84	Leam Drilling Systems, Inc.
2/16/2015	6,825.00	0.44	61.39	6,815.57	276.52	Leam Drilling Systems, Inc.
2/16/2015	6,919.00	0.26	194.81	6,909.57	276.78	Leam Drilling Systems, Inc.
2/17/2015	7,013.00	0.44	187.95	7,003.57	277.36	Leam Drilling Systems, Inc.
2/17/2015	7,013.00	0.44	187.95	7,003.57	277.36	Leam Drilling Systems, Inc.
2/17/2015	7,108.00	0.35	163.34	7,098.57	278.00	Leam Drilling Systems, Inc.
2/17/2015	7,202.00	0.62	165.28	7,192.56	278.79	Leam Drilling Systems, Inc.
2/17/2015	7,296.00	0.44	136.27	7,286.56	279.63	Leam Drilling Systems, Inc.
2/17/2015	7,390.00	0.44	125.02	7,380.56	280.35	Leam Drilling Systems, Inc.
2/17/2015	7,485.00	0.44	127.66	7,475.56	281.08	Leam Drilling Systems, Inc.
2/17/2015	7,579.00	0.44	84.59	7,569.55	281.75	Leam Drilling Systems, Inc.
2/17/2015	7,674.00	0.62	80.55	7,664.55	282.63	Leam Drilling Systems, Inc.
2/17/2015	7,768.00	0.53	79.50	7,758.54	283.58	Leam Drilling Systems, Inc.
2/17/2015	7,855.00	0.44	56.47	7,845.54	284.30	Leam Drilling Systems, Inc.
3/30/2015	7,960.00	0.88	70.36	7,950.53	285.50	Leam Drilling Systems, Inc.
3/30/2015	8,054.00	7.39	356.70	8,044.26	291.79	Leam Drilling Systems, Inc.
3/30/2015	8,101.00	13.37	356.88	8,090.47	300.26	Leam Drilling Systems, Inc.
3/30/2015	8,148.00	18.20	3.56	8,135.69	313.02	Leam Drilling Systems, Inc.
3/30/2015	8,195.00	22.16	6.90	8,179.80	329.22	Leam Drilling Systems, Inc.
3/30/2015	8,243.00	27.08	4.26	8,223.42	349.21	Leam Drilling Systems, Inc.
3/30/2015	8,290.00	32.01	2.86	8,264.30	372.38	Leam Drilling Systems, Inc.
3/30/2015	8,337.00	35.88	1.80	8,303.28	398.62	Leam Drilling Systems, Inc.
3/30/2015	8,384.00	39.75	0.39	8,340.40	427.43	Leam Drilling Systems, Inc.
3/30/2015	8,431.00	43.70	359.69	8,375.47	458.70	Leam Drilling Systems, Inc.
3/30/2015	8,478.00	47.48	358.46	8,408.36	492.27	Leam Drilling Systems, Inc.
3/30/2015	8,526.00	51.44	358.81	8,439.55	528.74	Leam Drilling Systems, Inc.
3/30/2015	8,572.00	55.40	359.34	8,466.96	565.67	Leam Drilling Systems, Inc.
3/30/2015	8,620.00	58.83	358.81	8,493.02	605.97	Leam Drilling Systems, Inc.
3/30/2015	8,667.00	63.75	358.29	8,515.59	647.18	Leam Drilling Systems, Inc.
3/31/2015	8,714.00	68.85	357.41	8,534.48	690.20	Leam Drilling Systems, Inc.
3/31/2015	8,761.00	73.34	357.05	8,549.70	734.65	Leam Drilling Systems, Inc.
3/31/2015	8,808.00	77.56	357.41	8,561.50	780.14	Leam Drilling Systems, Inc.
3/31/2015	8,855.00	80.20	358.11	8,570.57	826.25	Leam Drilling Systems, Inc.
3/31/2015	8,902.00	81.51	358.46	8,578.04	872.65	Leam Drilling Systems, Inc.
3/31/2015	8,949.00	84.15	359.87	8,583.90	919.28	Leam Drilling Systems, Inc.

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Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
3/31/2015	8,997.00	88.02	2.15	8,587.18	967.15	Leam Drilling Systems, Inc.
3/31/2015	9,091.00	88.46	3.03	8,590.07	1,061.11	Leam Drilling Systems, Inc.
3/31/2015	9,185.00	88.81	3.38	8,592.31	1,155.08	Leam Drilling Systems, Inc.
3/31/2015	9,280.00	89.43	359.16	8,593.77	1,250.05	Leam Drilling Systems, Inc.
3/31/2015	9,374.00	88.37	357.76	8,595.57	1,344.03	Leam Drilling Systems, Inc.
3/31/2015	9,468.00	88.99	356.00	8,597.74	1,438.00	Leam Drilling Systems, Inc.
3/31/2015	9,562.00	90.75	357.93	8,597.95	1,531.99	Leam Drilling Systems, Inc.
3/31/2015	9,656.00	92.07	359.87	8,595.64	1,625.96	Leam Drilling Systems, Inc.
3/31/2015	9,751.00	92.15	3.56	8,592.14	1,720.87	Leam Drilling Systems, Inc.
3/31/2015	9,845.00	92.51	3.56	8,588.32	1,814.80	Leam Drilling Systems, Inc.
3/31/2015	9,939.00	91.01	2.33	8,585.43	1,908.75	Leam Drilling Systems, Inc.
3/31/2015	10,033.00	91.63	2.15	8,583.26	2,002.72	Leam Drilling Systems, Inc.
3/31/2015	10,127.00	89.52	1.63	8,582.32	2,096.71	Leam Drilling Systems, Inc.
3/31/2015	10,222.00	90.66	2.86	8,582.17	2,191.71	Leam Drilling Systems, Inc.
4/1/2015	10,316.00	88.29	0.92	8,583.03	2,285.69	Leam Drilling Systems, Inc.
4/1/2015	10,411.00	88.81	0.92	8,585.44	2,380.66	Leam Drilling Systems, Inc.
4/1/2015	10,505.00	89.78	1.10	8,586.59	2,474.65	Leam Drilling Systems, Inc.
4/1/2015	10,599.00	90.66	1.27	8,586.23	2,568.65	Leam Drilling Systems, Inc.
4/1/2015	10,693.00	89.08	0.92	8,586.45	2,662.65	Leam Drilling Systems, Inc.
4/1/2015	10,788.00	89.69	0.57	8,587.47	2,757.64	Leam Drilling Systems, Inc.
4/1/2015	10,882.00	90.13	358.99	8,587.61	2,851.64	Leam Drilling Systems, Inc.
4/1/2015	10,976.00	90.92	1.10	8,586.75	2,945.63	Leam Drilling Systems, Inc.
4/1/2015	11,070.00	91.36	359.16	8,584.88	3,039.61	Leam Drilling Systems, Inc.
4/1/2015	11,164.00	89.69	359.52	8,584.02	3,133.60	Leam Drilling Systems, Inc.
4/1/2015	11,258.00	88.64	1.10	8,585.39	3,227.58	Leam Drilling Systems, Inc.
4/1/2015	11,353.00	88.29	0.75	8,587.94	3,322.55	Leam Drilling Systems, Inc.
4/1/2015	11,447.00	87.67	0.04	8,591.25	3,416.49	Leam Drilling Systems, Inc.
4/1/2015	11,541.00	88.90	1.98	8,594.06	3,510.44	Leam Drilling Systems, Inc.
4/1/2015	11,636.00	92.33	6.20	8,593.04	3,605.40	Leam Drilling Systems, Inc.
4/1/2015	11,730.00	90.57	3.56	8,590.66	3,699.36	Leam Drilling Systems, Inc.
4/1/2015	11,823.00	91.01	4.44	8,589.38	3,792.35	Leam Drilling Systems, Inc.
4/1/2015	11,918.00	88.20	1.27	8,590.04	3,887.33	Leam Drilling Systems, Inc.
4/1/2015	12,012.00	86.70	359.16	8,594.22	3,981.22	Leam Drilling Systems, Inc.
4/1/2015	12,106.00	87.85	0.04	8,598.69	4,075.12	Leam Drilling Systems, Inc.
4/1/2015	12,200.00	89.87	0.75	8,600.56	4,169.09	Leam Drilling Systems, Inc.
4/1/2015	12,294.00	90.04	359.52	8,600.63	4,263.09	Leam Drilling Systems, Inc.
4/1/2015	12,389.00	90.84	359.52	8,599.90	4,358.09	Leam Drilling Systems, Inc.
4/2/2015	12,483.00	90.13	0.22	8,599.11	4,452.08	Leam Drilling Systems, Inc.
4/2/2015	12,577.00	90.22	1.10	8,598.82	4,546.08	Leam Drilling Systems, Inc.
4/2/2015	12,672.00	89.43	1.98	8,599.11	4,641.08	Leam Drilling Systems, Inc.
4/2/2015	12,766.00	90.40	4.09	8,599.25	4,735.07	Leam Drilling Systems, Inc.
4/2/2015	12,860.00	90.84	3.21	8,598.23	4,829.06	Leam Drilling Systems, Inc.
4/2/2015	12,954.00	90.48	1.98	8,597.15	4,923.06	Leam Drilling Systems, Inc.
4/2/2015	13,049.00	89.60	1.27	8,597.08	5,018.06	Leam Drilling Systems, Inc.
4/2/2015	13,143.00	88.46	359.87	8,598.67	5,112.04	Leam Drilling Systems, Inc.
4/2/2015	13,237.00	89.52	0.57	8,600.33	5,206.02	Leam Drilling Systems, Inc.
4/2/2015	13,331.00	90.48	0.22	8,600.33	5,300.02	Leam Drilling Systems, Inc.
4/2/2015	13,425.00	90.57	358.64	8,599.47	5,394.01	Leam Drilling Systems, Inc.
4/2/2015	13,519.00	91.10	359.69	8,598.10	5,488.00	Leam Drilling Systems, Inc.
4/2/2015	13,614.00	90.84	358.46	8,596.49	5,582.99	Leam Drilling Systems, Inc.
4/2/2015	13,708.00	90.57	1.10	8,595.33	5,676.97	Leam Drilling Systems, Inc.
4/2/2015	13,802.00	90.40	1.80	8,594.54	5,770.97	Leam Drilling Systems, Inc.
4/2/2015	13,896.00	89.43	0.75	8,594.68	5,864.96	Leam Drilling Systems, Inc.
4/2/2015	13,991.00	88.55	2.68	8,596.35	5,959.94	Leam Drilling Systems, Inc.
4/2/2015	14,085.00	89.87	3.56	8,597.65	6,053.93	Leam Drilling Systems, Inc.
4/2/2015	14,179.00	91.01	3.91	8,596.93	6,147.93	Leam Drilling Systems, Inc.

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Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
4/2/2015	14,274.00	89.16	2.33	8,596.79	6,242.92	Leam Drilling Systems, Inc.
4/2/2015	14,368.00	90.66	2.68	8,596.93	6,336.92	Leam Drilling Systems, Inc.
4/2/2015	14,462.00	92.42	3.91	8,594.41	6,430.88	Leam Drilling Systems, Inc.
4/2/2015	14,557.00	90.13	2.50	8,592.29	6,525.85	Leam Drilling Systems, Inc.
4/3/2015	14,651.00	87.76	0.22	8,594.02	6,619.82	Leam Drilling Systems, Inc.
4/3/2015	14,745.00	88.64	1.63	8,596.98	6,713.77	Leam Drilling Systems, Inc.
4/3/2015	14,840.00	91.28	4.44	8,597.04	6,808.75	Leam Drilling Systems, Inc.
4/3/2015	14,934.00	89.69	2.15	8,596.25	6,902.74	Leam Drilling Systems, Inc.
4/3/2015	15,028.00	87.85	356.35	8,598.27	6,996.67	Leam Drilling Systems, Inc.
4/3/2015	15,122.00	88.55	356.70	8,601.22	7,090.62	Leam Drilling Systems, Inc.
4/3/2015	15,216.00	88.20	357.41	8,603.89	7,184.58	Leam Drilling Systems, Inc.
4/3/2015	15,311.00	87.93	358.81	8,607.09	7,279.53	Leam Drilling Systems, Inc.
4/3/2015	15,405.00	88.99	1.45	8,609.62	7,373.48	Leam Drilling Systems, Inc.
4/3/2015	15,499.00	89.34	1.63	8,610.99	7,467.47	Leam Drilling Systems, Inc.
4/3/2015	15,593.00	90.22	1.45	8,611.35	7,561.47	Leam Drilling Systems, Inc.
4/3/2015	15,688.00	90.75	1.27	8,610.55	7,656.47	Leam Drilling Systems, Inc.
4/3/2015	15,782.00	90.48	359.16	8,609.54	7,750.46	Leam Drilling Systems, Inc.
4/3/2015	15,877.00	91.45	1.45	8,607.94	7,845.44	Leam Drilling Systems, Inc.
4/3/2015	15,971.00	93.12	1.45	8,604.19	7,939.36	Leam Drilling Systems, Inc.
4/4/2015	16,065.00	90.84	0.75	8,600.94	8,033.30	Leam Drilling Systems, Inc.
4/3/2015	16,159.00	91.54	1.10	8,598.99	8,127.28	Leam Drilling Systems, Inc.
4/3/2015	16,253.00	90.13	2.68	8,597.62	8,221.26	Leam Drilling Systems, Inc.
4/3/2015	16,348.00	88.90	2.50	8,598.42	8,316.25	Leam Drilling Systems, Inc.
4/3/2015	16,442.00	88.99	359.87	8,600.16	8,410.23	Leam Drilling Systems, Inc.
4/4/2015	16,537.00	87.67	0.22	8,602.92	8,505.19	Leam Drilling Systems, Inc.
4/4/2015	16,631.00	88.90	3.21	8,605.74	8,599.13	Leam Drilling Systems, Inc.
4/4/2015	16,725.00	89.34	2.86	8,607.18	8,693.12	Leam Drilling Systems, Inc.
4/4/2015	16,820.00	90.04	3.21	8,607.70	8,788.12	Leam Drilling Systems, Inc.
4/4/2015	16,914.00	90.66	2.68	8,607.12	8,882.12	Leam Drilling Systems, Inc.
4/4/2015	17,008.00	90.66	1.27	8,606.04	8,976.11	Leam Drilling Systems, Inc.
4/4/2015	17,102.00	91.80	1.10	8,604.02	9,070.09	Leam Drilling Systems, Inc.
4/4/2015	17,196.00	89.69	1.27	8,602.80	9,164.07	Leam Drilling Systems, Inc.
4/4/2015	17,291.00	89.78	0.57	8,603.24	9,259.07	Leam Drilling Systems, Inc.
4/4/2015	17,385.00	91.45	3.73	8,602.23	9,353.05	Leam Drilling Systems, Inc.
4/4/2015	17,479.00	88.90	3.21	8,601.94	9,447.04	Leam Drilling Systems, Inc.
4/4/2015	17,574.00	90.57	6.20	8,602.38	9,542.03	Leam Drilling Systems, Inc.
4/4/2015	17,668.00	89.34	4.09	8,602.45	9,636.02	Leam Drilling Systems, Inc.
4/4/2015	17,762.00	90.57	2.68	8,602.53	9,730.01	Leam Drilling Systems, Inc.
4/4/2015	17,856.00	88.20	358.81	8,603.54	9,823.98	Leam Drilling Systems, Inc.
4/4/2015	17,950.00	88.20	358.64	8,606.49	9,917.94	Leam Drilling Systems, Inc.
4/4/2015	18,045.00	88.72	358.72	8,609.04	10,012.90	Leam Drilling Systems, Inc.
4/4/2015	18,139.00	88.64	357.93	8,611.21	10,106.88	Leam Drilling Systems, Inc.
4/5/2015	18,233.00	89.16	357.93	8,613.01	10,200.86	Leam Drilling Systems, Inc.
4/5/2015	18,327.00	90.31	357.76	8,613.45	10,294.86	Leam Drilling Systems, Inc.
4/5/2015	18,380.00	90.84	357.58	8,612.92	10,347.85	Leam Drilling Systems, Inc.
4/5/2015	18,430.00	90.84	357.58	8,612.18	10,397.85	Leam Drilling Systems, Inc.