

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

API/UWI 42-383-38420-0000	Property Sub 927146-017	Operator PIONEER NATURAL RESRC USA INC	State TEXAS	County REAGAN
Field Name SPRABERRY (TREND AREA)		Surface Legal Location 2762' FNL / 1,721' FEL, SEC: 12, BLK: 10, SVY: UNIVERSITY LANDS		
Spud Date 9/15/2013	TD Date 12/28/2013	Drilling Rig Release Date 1/2/2014	Frac Date 1/12/2014	On Production Date 2/24/2014
Ground Elevation (ft) 2,631.00	Original KB Elevation (ft) 2,657.50	PBTD (All) (ftGRD)	Total Depth (All) (ftGRD) Original Hole - 14,570.5; Sidetrack 1 - 14,376.5; Sidetrack 2 - 18,226.5	Total Depth All (TVD) (ftGRD) Original Hole - 7,928.1; Sidetrack 1 - 7,932.3; Sidetrack 2 - 7,929.6

Report #: 1 Daily Operation: 9/13/2013 18:00 - 9/14/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
Days From Spud (days) -2	Days on Location (days) 1	End Depth (ftGRD) -26.5
End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PATTERSON - UTI, 225

Operations Summary

Lower derrick & substructure, Prepare Derrick & Substructure to move.

Remarks

Rig (Patterson 225) & Well Progress: 0.50 days on location, 0 days since rig accepted on, 0 days since spud. Rig move day's 0.50

Rig NPT:0.0 hours for previous 24 hours. 3 NPT hours for Sept.

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

Rig move: 80% rigged down, 5% rigged up, 50% moved.

Estimated spud date: 9/15/2013, 06:00 hrs.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/13/2013 18:00	9/13/2013 20:00	2	MOBILIZATION	RDMO	RDMO	Lower derrick & substructure
9/13/2013 20:00	9/14/2013 06:00	10	MOBILIZATION	RDMO	RDMO	Night crew work throughout the night to prepare derrick and substructure to move.

Report #: 2 Daily Operation: 9/14/2013 06:00 - 9/15/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
Days From Spud (days) -1	Days on Location (days) 2	End Depth (ftGRD) -26.5
End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PATTERSON - UTI, 225

Operations Summary

Move derrick and substructure to new location, Set in rig, Raise derrick and substructure, Rig up

Remarks

Rig (Patterson 225) & Well Progress: 1.50 days on location, 0 days since rig accepted on, 0 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 3 NPT hours for Sept.

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

Rig move: 100% rigged down, 100% moved, 60% rigged up

Estimated spud date: 9/15/2013, 12:00 hrs.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/14/2013 06:00	9/14/2013 06:30	0.5	MOBILIZATION	MIRU	MIRU	Held pre job safety meeting with Patterson crew and Texas 21 Century. Discussed rig move plan and route, overhead electrical lines, PPE requirements, Incident reporting, speed limit, and discarding trash in trash bins.
9/14/2013 06:30	9/14/2013 11:00	4.5	MOBILIZATION	MIRU	MIRU	Tied onto derrick board with Manitowoc, unpinned, and layed over onto derrick. Tied onto derrick mast with both Manitowoc's, unpinned, and set on trucks. Two truck derrick mast to new location. Load out crew and tool's house. Unpin center steel from substructure and load out. Unpin centering beams on substructure and load out substructure, haul off to new location. Haul off remaining miscellaneous equipment to new well (reserve pumps, diesel trasfer pumps, housing transformer, etc).
						Note: Rig 100% moved out to new location by 1100hrs.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/14/2013 11:00	9/14/2013 15:00	4	MOBILIZATION	MIRU	MIRU	Set in both substructure pieces and install centering beams. Center substructure over University 10 - 1 #17H and level, PNR representative Sergio Hernandez confirmed well center and substructure level. Set in center steel. Set in BOP stack handler in place and pin to substructure. Set in pipe wrangler Set in driller and off drillers doghouse's and pin same. Tie on to derrick with both Manitowoc's and set in place, pin same. Tie on to derrick board, move back in to place and pin. Set in fuel tanks, generator package, bottom doghouse, water tanks, top drive house, and parts house.
9/14/2013 15:00	9/14/2013 18:00	3	MOBILIZATION	MIRU	MIRU	Set in Monster pit and mud silo's in place. Set in gas buster, and roof's on mud tanks. Set in solids control equipment. Purge cylinders for 45 min prior to raising derrick. PJSM on raising derrick with all parties involved. Raise derrick mast and pin to floor. Retract cylinders. Connect all electrical from floor and drawworks to VFD house. Connect air and water lines to rig floor. Purge cylinders for 45 min prior to raising substructure. PJSM with all parties involved on raising substructure. Note: Rig 100% set in place by 1600hrs. Excellent performance by all parties involved on rig move. No damage caused to equipment and ZERO incidents.
9/14/2013 18:00	9/15/2013 06:00	12	MOBILIZATION	MIRU	MIRU	Raise substructure, rig up generator package and hook up electric lines to VFD house rig up electrical to pits & pumps. Un-pin and retract cylinders in substructure. Rig up hydraulic hoist and boom poles. Hook up hyrdraulic lines to pipe wrangler catwalk. Spool drilling line onto drawworks, un-pin top drive from track.

Report #: 3 Daily Operation: 9/15/2013 06:00 - 9/16/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
0	3	543.5	543.5		PATTERSON - UTI, 225	

Operations Summary

Finish rigging up, Perform pre-spud rig inspection (rig accepted 9/15/2013 @ 17:00 hrs), Strap & caliper BHA, P/U BHA #1, Drill Surface F/ 146' - 570'

Remarks

Rig (Patterson 225) & Well Progress: 2.50 days on location, .54 days since rig accepted on, .29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well.

Completion percentage: Surface- 85%, Intermediate- 0%, Curve- 0%, Lateral- 0%

Note: Contacted TRRC with intent to spud, run casing, and cement University 10-1 #17H. Spoke to operator Sendy @ 0700hrs 9/15/13.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/15/2013 06:00	9/15/2013 10:00	4	MOBILIZATION	MIRU	MIRU	Rig up miscellaneous equipment on rig floor and backyard. Organize floor area, drillers doghouse, and top parts house. Un hang blocks and pin to top drive. Connect kelly hose to goose neck. Rig up wireline. Note: Contacted TRRC with intent to spud, run casing, and cement University 10-1 #17H. Spoke to operator Sendy @ 0700hrs 9/15/13.
9/15/2013 10:00	9/15/2013 15:00	5	MOBILIZATION	MIRU	MIRU	Install camera on substructure. Install walkways in sub base. Rig up remaining equipment on rig floor. Hang off tongs and rig up easy torque. Install mousehole. Rig up cellar pumps and reserve pumps, test same (ok). Clean out trash from mud tanks and fill with fresh water. Checked for leaks (ok). Fill duck pond.
9/15/2013 15:00	9/15/2013 17:00	2	MOBILIZATION	MIRU	MIRU	Perform Patterson Drilling comprehensive rig inspection (CRI). Corrected minor issues that were found while performing CRI. Note: Rig Accepted @ 1700hrs 9/15/13.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/15/2013 17:00	9/15/2013 18:30	1.5	PLAN	EQUIP	BHA	Load BHA on pipe racks. Strap & Caliper BHA. Load 17.5" Ulterra U616S PDC bit to rig floor.
9/15/2013 18:30	9/15/2013 19:30	1	PLAN	EQUIP	BHA	Pick up 1 stand 8" DC's and rack back in derrick.
9/15/2013 19:30	9/15/2013 22:30	3	SURF-TIH	TRIP IN HOLE	TIH	P/U 17-1/2" Ulterra U516S jetted w/ 10-10's (TFA=1.50), bit sub, 2 - 8" D.C., stabilizer, 4 - 8" D.C., & x-over
9/15/2013 22:30	9/15/2013 23:00	0.5	SURF-TIH	TRIP IN HOLE	TIH	Fill drill string and conductor. Establish returns, and get cellar pump going.
9/15/2013 23:00	9/16/2013 03:00	4	SURF-DRILL	DRILL SURFACE	DRL	Rotate Drill 17-1/2" Surface Hole 150' @ 38'/Hr, 75-100 spm, 314-419 gpm, 350-530 spp, 60-75 top drive rpm, 15k-20k wob, 5k ft/lbs trq.
9/16/2013 03:00	9/16/2013 03:30	0.5	PLAN	DRLG	DEVSUR	Run wireline survey Survey depth: 260' Inc. 1.12°
9/16/2013 03:30	9/16/2013 06:00	2.5	SURF-DRILL	DRILL SURFACE	DRL	Rotate Drill 17-1/2" Surface Hole 274' @ 110'/Hr

Report #: 4 Daily Operation: 9/16/2013 06:00 - 9/17/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
-------------------------------	-------------------------	----------------------

Days From Spud (days) 1	Days on Location (days) 4	End Depth (ftGRD) 653.5	End Depth (TVD) (ftGRD) 653.5	Dens Last Mud (lb/gal)	Rig PATTERSON - UTI, 225
----------------------------	------------------------------	----------------------------	----------------------------------	------------------------	-----------------------------

Operations Summary

Drill Surface F/ 570' - 680', Circulate hole clean, Run gyro surveys, TOH & run 13-3/8" Surface Casing, Cement casing, Install wellhead, N/U & test B.O.P.

Remarks

Rig (Patterson 225) & Well Progress: 3.50 days on location, 1.54 days since rig accepted on, 1.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well.

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

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/16/2013 06:00	9/16/2013 06:30	0.5	PLAN	DRLG	DEVSUR	Wireline survey @ 540' = .07° inclination.
9/16/2013 06:30	9/16/2013 07:30	1	SURF-DRILL	DRILL SURFACE	DRL	Rotate Drill 17-1/2" Surface Hole 110' @ 110'/Hr, 120 spm, 501 gpm, 800 spp, 100 top drive rpm, 15k-20k wob, 8k ft/lbs trq.
9/16/2013 07:30	9/16/2013 08:00	0.5	SURF-CIRC	CIRCULATE	CIRC	Circulate 60 bbl viscous sweep at TD.
9/16/2013 08:00	9/16/2013 10:00	2	PLAN	DRLG	DEVSUR	Rig up Multi Shot wireline and run gyro. Survey's: 100' 1.15° Inc 81.42° Azm 200' 1.16° Inc 66.00° Azm 300' 0.65° Inc 79.24° Azm 400' 0.33° Inc 147.31° Azm 500' 0.28° Inc 103.14° Azm 600' 0.32° Inc 271.98° Azm 645' 0.55° Inc 301.04° Azm Total Displacement= 5.22' @ 80.47°.
9/16/2013 10:00	9/16/2013 12:30	2.5	SURF-TRIP	TOOH	TRIP	TOH to run 13 3/8" Surface Casing. TOH with 6 stands HWDP & 3 stands of 8" DC's. Broke bit off and layed down stabilizer, shock sub, and bit sub. No excess drag was seen.
9/16/2013 12:30	9/16/2013 13:00	0.5	SURF-CASE	RUN SURFACE CASING	CASE	Rig up Express Casing Crew and Equipment. Load float equipment and centralizers up to rig floor.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/16/2013 13:00	9/16/2013 15:30	2.5	SURF-CASE	RUN SURFACE CASING	CASE	PJSM with Express Energy Services, rig crew, and PNR representative on rig floor. Run 13 3/8" J55 48 lb/ft STC in this order: Float shoe, 1 joint shoe track, Float collar, and will run 15 more joints to 675' md. Thread locked float shoe, shoe joint, float collar, and first joint on top of shoe track. Shoe depth= 675' Float Collar= 629' Shoe track length= 45.65' Ran total of 4 centralizers. 1st one in middle of shoe joint on lock ring +/- 651'. 2nd 5' above float collar on lock ring 624'. 3rd @ 418' on collar. 4th @ 293' on collar.
9/16/2013 15:30	9/16/2013 16:30	1	SURF-CIRC	CIRCULATE	CIRC	Rig down Express Casing Crew & Equipment while circulating casing on bottom (100 spm, 200 psi, full returns). Load Schlumberger cementing equipment up to rig floor and finish rigging up dumb iron on ground.
9/16/2013 16:30	9/16/2013 19:00	2.5	SURF-CMT	CEMENT SURFACE CASING	CMT	PJSM with Schlumberger, Patterson, and PNR representative's on rig floor on cementing operations. Schlumberger cement 13 -3/8" 48 ppf J-55 STC Surface Casing as follows: 25 bbls 8.33 lb/gal of fresh water spacer. 548 sks (166 bbl) of lead class "C" cement with 2.0% BWOC CaCl ₂ , 3.0% BWOC D020 Extender, mixed @ 13.6 lb/gal, 1.71 ft ³ /sk yield, 8.87 gal/sk mixing H ₂ O. Average pumping rate was 4.5 bpm. Displace cement with 99 bbls of 8.33 ppg fresh water. Displaced final 10 bbls at 2.5 bpm and bump plug @ 19:00 hrs on 9/17/2013, with 750 psi, 500 psi over final lift pressure of 250 psi. Floats held, bled back 0.5 Circulated 70 bbls cement back to surface (229 sks).
9/16/2013 19:00	9/16/2013 19:30	0.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Rig down cementer and jet out cellar with trash pump
9/16/2013 19:30	9/16/2013 22:30	3	COMPL	ND, NU, Testing, Sleeve Installation, Greasing Wel	WLHEAD	Cut off conductor, perform rough cut on 13-3/8" casing. Make final cut on 13-3/8" casing 18" below ground level (measurement confirmed by PNR representative, welder, and Seaboard representative). Weld wellhead on casing and test to 375 psi (test good).
9/16/2013 22:30	9/17/2013 02:30	4	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	N/U B.O.P. on wellhead. N/U choke line, and kill line. Hook up accumulator lines to B.O.P. Install bell nipple.
9/17/2013 02:30	9/17/2013 06:00	3.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Test B.O.P., blind rams, upper and lower pipe ramp, kill line, choke line, choke manifold, and annular to 250 psi low / 2,500 psi high. Tested 13-3/8" 48 ppf J-55

Report #: 5 Daily Operation: 9/17/2013 06:00 - 9/18/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
2	5	3,549.5	3,548.1	8.50	PATTERSON - UTI, 225		

Operations Summary

Finish B.O.P. test, N/U flowline & center B.O.P., Install long wear bushing, P/U directional tools, Drill cement shoe track, Drill Intermediate Section F/ 680' - 3,576'

Remarks

Rig (Patterson 225) & Well Progress: 4.50 days on location, 2.54 days since rig accepted on, 2.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 42%, Curve- 0%, Lateral- 0%

Corrosion Ring In 9/17/13 @ 16:00 hrs. Hours in string= 14.

PTB= 3,576' MD, 0.9° inc, 289.0° azm. 17' Ahead , 8' Left of Plan #1

Cenergy Inspection Report: 80% Corrected

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/17/2013 06:00	9/17/2013 07:00	1	PLAN	EQUIP	BOPS	Continue testing with ETS oilfield services. Test TIW & Dart valve, test mudlines to 250psi low 4,000psi high. Test completed @ 0700hrs. All tests good, and charted.
9/17/2013 07:00	9/17/2013 08:00	1	PLAN	EQUIP	BHA	Finish NU flow line and install flow sensor. Install turnbuckles and center BOP over hole. Load directional tools on pipe rack.
9/17/2013 08:00	9/17/2013 09:00	1	PLAN	EQUIP	BOPS	Install long wear bushing and lock down in place.
9/17/2013 09:00	9/17/2013 12:30	3.5	PLAN	EQUIP	BHA	Pick up directional BHA. PU Integrity Mud Motor 7/8 Lobe 4.0 Stage .17 rev/gal fixed housing set @ 2°. PU float sub, shock sub, ubho. Scribe from bend up to ubho sub. Install ubho sleeve and orient to bend, lock in place with set screws. PU NMDC and install MWD tool. Shallow test directional tools, test was good. Make up 12 1/4" Tercel MR616 MCB PDC bit. PU top NMDC.
9/17/2013 12:30	9/17/2013 13:00	0.5	PLAN	EQUIP	RIGSER	Standard daily rig service. Inspect handling tools prior to picking up directional BHA. Wash off rig floor and clear of trip hazards.
9/17/2013 13:00	9/17/2013 15:00	2	SURF-TIH	TRIP IN HOLE	TIH	TIH with BHA #2. Tag cement @ 619'.
9/17/2013 15:00	9/17/2013 16:30	1.5	PLAN	DRLG	DRLCMT	Drilling cement and float equipment. Tag depths: cement @ 619', float collar @ 628', and float shoe @ 673'. 10k wob, 40 rpm, 3500 - 4000 ft/lbs torque, 800 spp, and 100 spm (418 gpm).
9/17/2013 16:30	9/17/2013 21:30	5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 1,379' @ 276'/Hr, 180 spm, 754 gpm, 2,675 spp, 550 diff psi, 100-110 top drive rpm, 121 motor rpm, 221-231 total bit rpm, 15k-30k wob, 13k ft/lbs trq.
9/17/2013 21:30	9/17/2013 22:00	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 31' @ 62'/Hr, 180 spm, 754 gpm, 2,440 spp, 350-550 psi diff, 240 MTF, 121 motor rpm, 10k-15k wob.
9/17/2013 22:00	9/17/2013 22:30	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 127' @ 254'/Hr.
9/17/2013 22:30	9/17/2013 23:00	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 26' @ 52'/Hr, 220 MTF
9/17/2013 23:00	9/18/2013 00:30	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 353' @ 235'/Hr.
9/18/2013 00:30	9/18/2013 01:00	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 28' @ 56'/Hr, 70 MTF
9/18/2013 01:00	9/18/2013 06:00	5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 952' @ 190'/Hr.

Report #: 6 Daily Operation: 9/18/2013 06:00 - 9/19/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 028096	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
3	6	5,579.5	5,577.6	9.00	PATTERSON - UTI, 225			

Operations Summary

Drill Intermediate Section F/ 3,576' - 4,903', Service Rig, Drill Intermediate F/ 4,903' - 5,606', Circulate, Build & pump slug, TOH due to reduced R.O.P.

Remarks

Rig (Patterson 225) & Well Progress: 5.50 days on location, 3.54 days since rig accepted on, 3.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 72%, Curve- 0%, Lateral- 0%

Corrosion Ring In 9/17/13 @ 16:00 hrs. Hours in string= 14.

PTB= 5,377' MD, 1.2° inc, 322.4° azm. 43' Ahead , 30' Left of Plan #1

Cenergy Inspection Report: 80% Corrected

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/18/2013 06:00	9/18/2013 15:00	9	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 1,137' @ 126'/Hr, 180 spm, 752 gpm, 2,650 spp, 550 diff psi, 110-120 top drive rpm, 128 motor rpm, 238 - 248 total bit rpm, 25k - 42k wob, 14k ft/lbs trq. Note: Increased top drive rpm to 120 @ 4,334' md and back off weight slightly due to stick slip. Came back up to normal drilling parameters once past ratty zone +/- 200'.
9/18/2013 15:00	9/18/2013 17:00	2	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 190' @ 95'/hr. Note: Depth @ 1630hrs 4,830', 4,160' drilled in first 24hr after drilling out of 13 3/8" Surface Casing.
9/18/2013 17:00	9/18/2013 18:00	1	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Sevice Rig & Top Drive
9/18/2013 18:00	9/19/2013 04:00	10	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 703' @ 70'/hr. Note: After connection @ 5,567' R.O.P. dropped from 85'-100'/Hr. to 35'-45'/Hr. and torqued increased from 13k-16k to 5k -18k
9/19/2013 04:00	9/19/2013 05:30	1.5	INT-CIRC	CIRCULATE	CIRC	Pump LCM sweep, circulate bottoms up, build and pump slug to TOH due to reduced R.O.P. of 40'/hr.
9/19/2013 05:30	9/19/2013 06:00	0.5	INT-TRIP	TOOH	TRIP	Pump Slug & TOH due to reduced R.O.P. F/ 5,606' - 5,092'

Report #: 7 Daily Operation: 9/19/2013 06:00 - 9/20/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
4	7	6,432.5	6,430.3	9.10	PATTERSON - UTI, 225	

Operations Summary

TOH F/5,092' - BHA, Change out bit & motor, TIH w/ BHA #3, Drill Intermediate Section F/ 5,606' - 6,459'

Remarks

Rig (Patterson 225) & Well Progress: 6.50 days on location, 4.54 days since rig accepted on, 4.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well

Completion percentage: Surface- 100%, Intermediate- 85%, Curve- 0%, Lateral- 0%

Corrosion Ring In 9/17/13 @ 16:00 hrs. Hours in string= 62

PTB= 6,459' MD, 1.1° Inc, 54.6° Azm. 0' Ahead , 32' Left of Plan #1

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/19/2013 06:00	9/19/2013 10:00	4	INT-TRIP	TOOH	TRIP	Continue TOH F/ 5,092' - BHA. Hole taking proper fill.
9/19/2013 10:00	9/19/2013 10:30	0.5	INT-TRIP	TOOH	TRIP	L/D 1 jt drill pipe, stand back 20 HWDP, 1 jars and 9-8" DC
9/19/2013 10:30	9/19/2013 13:30	3	INT-TRIP	TOOH	TRIP	Lay down MWD tool. Break bit & L/D 2 degree down hole motor, Pick up 8" 7/8 4.0 slick mud motor set @ 2" (fixed housing) (0.17 Rev/gal). Scribe up to UBHO. Shallow test directional tools GPM 336 SPP 273 (good test). Pick up new 12 1/4" Halliburton MM75D PDC bit jetted with 7/12's.
9/19/2013 13:30	9/19/2013 14:30	1	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Serve Rig
9/19/2013 14:30	9/19/2013 15:00	0.5	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Chnge SRL on derrick, raining hard at time of change
9/19/2013 15:00	9/19/2013 16:00	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/ BHA
9/19/2013 16:00	9/19/2013 20:00	4	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH with BHA #3 F/ BHA - 5,567', washed to bottom (5,606') no problems encountered. Hole displace @ 50% of calculated pipe displacement.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/19/2013 20:00	9/20/2013 02:00	6	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 723' @ 121'/Hr, 180 spm, 754 gpm, 3,410 spp, 650 diff psi, 100-110 top drive rpm, 121 motor rpm, 221-231 total bit rpm, 35k-40k wob, 18k ft/lbs trq.
9/20/2013 02:00	9/20/2013 03:30	1.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 30' @ 20'/Hr, 180 spm, 754 gpm, 3,040 spp, 250-300 psi diff, 360 MTF, 121 motor rpm, 15k-20k wob.
9/20/2013 03:30	9/20/2013 04:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 65' @ 130'/Hr.
9/20/2013 04:00	9/20/2013 06:00	2	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 35' @ 18'/Hr, 50 MTF

Report #: 8 Daily Operation: 9/20/2013 06:00 - 9/21/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
5	8	7,208.5	7,198.2	9.00	PATTERSON - UTI, 225	

Operations Summary

Drill Intermediate Section building 17.9° tangent F/ 6,459' - 7,235'

Remarks

Rig (Patterson 225) & Well Progress: 7.50 days on location, 5.54 days since rig accepted on, 5.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well

Completion percentage: Surface- 100%, Intermediate- 96%, Curve- 0%, Lateral- 0%

Corrosion Ring In 9/17/13 @ 16:00 hrs. Hours in string= 86

PTB= 7,235' MD, 11.4° Inc, 341.1° Azm. 10' Ahead , 4' Right of Plan #1

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/20/2013 06:00	9/20/2013 06:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 57' @ 114'/Hr, 180 spm, 754 gpm, 3,475 spp, 650 diff psi, 110 top drive rpm, 121 motor rpm, 231 total bit rpm, 35k wob, 16k ft/lbs trq.
9/20/2013 06:30	9/20/2013 08:30	2	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 44' @ 22'/Hr, 180 spm, 754 gpm, 3,240 spp, 350-400 psi diff, 330 MTF, 121 motor rpm, 15k-25k wob.
9/20/2013 08:30	9/20/2013 09:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 51' @ 102'/Hr.
9/20/2013 09:00	9/20/2013 11:00	2	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 46' @ 23'/Hr, 330 MTF
9/20/2013 11:00	9/20/2013 11:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 49' @ 98'/Hr.
9/20/2013 11:30	9/20/2013 13:00	1.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 41' @ 27'/Hr, 30L MTF
9/20/2013 13:00	9/20/2013 13:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 54' @ 108'/Hr.
9/20/2013 13:30	9/20/2013 15:30	2	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 63' @ 31.5'/Hr, 20L MTF
9/20/2013 15:30	9/20/2013 16:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 35' @ 70'/Hr.
9/20/2013 16:00	9/20/2013 17:00	1	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig & top drive
9/20/2013 17:00	9/20/2013 19:00	2	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 36' @ 18'/Hr, 0 GTF
9/20/2013 19:00	9/20/2013 20:00	1	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 60' @ 60'/Hr.
9/20/2013 20:00	9/20/2013 22:00	2	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 45' @ 23'/Hr, 40L GTF
9/20/2013 22:00	9/20/2013 23:00	1	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 50' @ 50'/Hr.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/20/2013 23:00	9/21/2013 01:30	2.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 40' @ 16"/Hr, 35L GTF
9/21/2013 01:30	9/21/2013 02:30	1	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 50' @ 50'/Hr.
9/21/2013 02:30	9/21/2013 03:30	1	UNPLANNED	Rig Repair (NON-CODE 8, Replacing Pump Expendables)	U_RIG_OTR	Replace #3 piston on #2 mud pump
9/21/2013 03:30	9/21/2013 06:00	2.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 50' @ 20'/Hr, 35L GTF

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

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
6	9	7,478.5	7,460.4	9.20	PATTERSON - UTI, 225		

Operations Summary

Work on #2 pump, Drill 12-1/4" Intermediate Section to T.D. F/ 7,235' - 7,505', Circulate hole clean, TOH & L/D BHA, Remove wear bushing, R/U casing crew & run 9-5/8" Intermediate Casing F/ Surface - 1,299'

Remarks

Rig (Patterson 225) & Well Progress: 8.50 days on location, 6.54 days since rig accepted on, 6.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0 NPT hours for Well

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 7,505' MD, 13.7° Inc, 331.1° Azm. 6' Below , 8' Right of Plan #1

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/21/2013 06:00	9/21/2013 06:30	0.5	UNPLANNED	Rig Repair (NON-CODE 8, Replacing Pump Expendables)	U_RIG_OTR	Lost SPP, isolate pumps found # 2 pump w/ less PSI, change suction valve in # 2 pump
9/21/2013 06:30	9/21/2013 08:00	1.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 8' @ 5.3'/Hr, 180 spm, 754 gpm, 3,100 spp, 300-400 psi diff, 360 MTF, 121 motor rpm, 25k-35k wob.
9/21/2013 08:00	9/21/2013 08:30	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 34' @ 68'/Hr, 180 spm, 754 gpm, 3,475 spp, 450 diff psi, 110 top drive rpm, 121 motor rpm, 231 total bit rpm, 35k wob, 12k ft/lbs trq.
9/21/2013 08:30	9/21/2013 11:30	3	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 60' @ 20'/Hr, 360 MTF
9/21/2013 11:30	9/21/2013 14:30	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12 1/4" Intermediate Section 168' @ 56 '/Hr. TD @ 7505' TDV 7487'
9/21/2013 14:30	9/21/2013 16:30	2	INT-CIRC	CIRCULATE	CIRC	Circulated 2-20 bbl & 1-40 bbl high vis sweeps 5 min apart, Circulated 2x bottoms up total of 20,500 strokes (2,044 bbls) until shakers were clean, W/ 80 vis, 20 ppb lcm of 5 cottonseed hulls, 5 tiger bullits, 10 med. walnut. Pump 40 bbl of 2 ppb over slug. Check for flow / no flow Note: From surface to surface should take 10367 stk (1034 bbl) went to 12015 stk (1198) extra 1648 stk, (164 bbl) / 6.3% wash out
9/21/2013 16:30	9/21/2013 21:30	5	INT-TRIP	TOOH	TRIP	TOOH f/ 7505' - BHA (1,016'), no problems encountered, hole took proper fill.
9/21/2013 21:30	9/22/2013 00:00	2.5	INT-TRIP	TOOH	TRIP	L/D 20 joints of HWDP, Jars, 1 X-O's, 9 joints of 8" D.C.
9/22/2013 00:00	9/22/2013 01:30	1.5	INT-TRIP	TOOH	TRIP	L/D 2 - 8" NMDC, MWD tool, UBHO sub, Shock sub. Drain mud motor, break bit & L/D same.
9/22/2013 01:30	9/22/2013 02:00	0.5	COMPL	ND, NU, Testing, Sleeve Installation, Greasing Wel	WLHEAD	Remove wear bushing.
9/22/2013 02:00	9/22/2013 04:00	2	INT-CASE	RUN INTERMEDIATE CASE	CASE	Hold safety meeting with Express casing crew, rig crew, and PNR representative. R/U Express elevators, bails, and CRT

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/22/2013 04:00	9/22/2013 06:00	2	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run casing F/ surface - 1,299'. Average torque @ 8,130 ft/lbs. Hole displacing properly and have 31% flow on each joint ran. Shoe set @ 7,498' MD Float Collar set @ 7,405' MD Shoe Track: 92.10'

Report #: 10 Daily Operation: 9/22/2013 06:00 - 9/23/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
-------------------------------	-------------------------	----------------------

Days From Spud (days) 7	Days on Location (days) 10	End Depth (ftGRD) 7,478.5	End Depth (TVD) (ftGRD) 7,460.4	Dens Last Mud (lb/gal) 9.20	Rig PATTERSON - UTI, 225
----------------------------	-------------------------------	------------------------------	------------------------------------	--------------------------------	-----------------------------

Operations Summary

Run casing F/ 1,299' - 4,573', Lost returns, TOH w/ 9-5/8" casing F/ 4,573' - 1,158' stopping every 500' +/- and attempt to establish returns, Returns established @ 1,158', well began flowing, Shut in well, nopressure on backside.

Remarks

Rig (Patterson 225) & Well Progress: 9.50 days on location, 7.54 days since rig accepted on, 7.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 7,505' MD, 13.7° Inc, 331.1° Azm. 6' Below , 8' Right of Plan #1

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/22/2013 06:00	9/22/2013 07:00	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run casing F/ 1,299' - 2,042'. Average torque @ 8,130 ft/lbs. Hole displacing properly and have 31% flow on each joint ran.
9/22/2013 07:00	9/22/2013 07:30	0.5	INT-CIRC	CIRCULATE	CIRC	Fill casing and circulate bottoms up @ 2,042', 100 spm, 419 gpm, 260 spp, 49% flow, full returns
9/22/2013 07:30	9/22/2013 09:30	2	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run casing F/ 2,042' - 3921'. Average torque @ 8,130 ft/lbs. Flow decreasing.
9/22/2013 09:30	9/22/2013 10:30	1	INT-CIRC	CIRCULATE	CIRC	Fill casing / lost returns recipocate pipe getting flow w/ up stroke, lost returns on down stroke, w/ 80 stk/min, 353 gpm 160 spp, Lost 90 bbl down hole
9/22/2013 10:30	9/22/2013 11:00	0.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run casing F/ 3921' - 4573'. Average torque @ 8,130 ft/lbs. W/ no flow
9/22/2013 11:00	9/22/2013 13:00	2	INT-CIRC	CIRCULATE	CIRC	Fill pipe recipocate pipe 25' 12% flow on up stroke, 0 flow on down stroke w 40 spm, 170 gpm, 170 spp. rotate pipe 10 rpm. Flow on up stroke decreasing to 5%, lost 120 bbl down hole
9/22/2013 13:00	9/22/2013 13:30	0.5	PLAN	PERS	SFTY	Safety meeting w/ patterson & Exprees crew on laying down casing
9/22/2013 13:30	9/22/2013 14:30	1	UNPLANNED	Tight Hole / Swabbing / Circulating in relation to	U_TH	Rig up casing tongs & pull and laydown 13 joint of 9 5/8" casing F/ 4,562' - 3,954' w/ no drag to regain circulation
9/22/2013 14:30	9/22/2013 15:00	0.5	INT-CIRC	CIRCULATE	CIRC	Circulate, w/ 40 spm, 167 gpm, 140 psi and recipocate pipe 50', 10% flow on up stroke 0% on down stroke, vis 40 wt 8'9
9/22/2013 15:00	9/22/2013 16:00	1	UNPLANNED	Tight Hole / Swabbing / Circulating in relation to	U_TH	Pull and laydown 9 joint of 9 5/8" casing F/ 3,954 - 3,533' no drag
9/22/2013 16:00	9/22/2013 16:30	0.5	INT-CIRC	CIRCULATE	CIRC	Circulate, w/ 60 spm, 255 gpm, 177 psi and recipocate pipe 70', 15% flow on up stroke 0% on down stroke, vis 40 wt 8'9

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/22/2013 16:30	9/22/2013 19:00	2.5	UNPLANNED	Tight Hole / Swabbing / Circulating in relation to	U_TH	Pull and laydown 6 joints of 9 5/8" casing F/ 3,533' - 3,302', no drag, hole not taking any displacement fluid.
9/22/2013 19:00	9/22/2013 20:00	1	INT-CIRC	CIRCULATE	CIRC	Reciprocate pipe 65' and pumping 419 gpm, 265 spp. Receiving 15% flow while picking up, and no flow while going down.
9/22/2013 20:00	9/22/2013 22:30	2.5	UNPLANNED	Tight Hole / Swabbing / Circulating in relation to	U_TH	Pull and laydown 10 joints of 9 5/8" casing F/ 3,302' - 2,832', no drag, hole not taking any displacement fluid.
9/22/2013 22:30	9/23/2013 00:00	1.5	INT-CIRC	CIRCULATE	CIRC	Reciprocate pipe 65' and pumping 752 gpm, 450 spp. Receiving 15% flow while picking up, and no flow while going down. Flow began increasing with every up stroke, from 15% - 31%.
9/23/2013 00:00	9/23/2013 01:00	1	UNPLANNED	Tight Hole / Swabbing / Circulating in relation to	U_TH	Pull and laydown 13 joints of 9 5/8" casing F/ 2,832' - 2,224', no drag, hole not taking any displacement fluid.
9/23/2013 01:00	9/23/2013 01:30	0.5	INT-CIRC	CIRCULATE	CIRC	Reciprocate pipe 65' and pumping 752 gpm, 475 spp. Receiving 30% flow while picking up, and no flow while going down.
9/23/2013 01:30	9/23/2013 02:30	1	UNPLANNED	Tight Hole / Swabbing / Circulating in relation to	U_TH	Pull and laydown 12 joints of 9 5/8" casing F/ 2,224' - 1,674', no drag, hole not taking any displacement fluid.
9/23/2013 02:30	9/23/2013 03:00	0.5	INT-CIRC	CIRCULATE	CIRC	Reciprocate pipe 65' and pumping 752 gpm, 435 spp. Receiving 30% flow while picking up, and no flow while going down.
9/23/2013 03:00	9/23/2013 04:30	1.5	UNPLANNED	Tight Hole / Swabbing / Circulating in relation to	U_TH	Pull and laydown 10 joints of 9 5/8" casing F/ 1,674' - 1,158', no drag, hole not taking any displacement fluid.
9/23/2013 04:30	9/23/2013 05:00	0.5	INT-CIRC	CIRCULATE	CIRC	Reciprocate pipe 65' and pumping 752 gpm, 435 spp. Regained full returns flow increased to 44%. Killed pumps and performed a flow check, well flowing 10 bbl-12 bbl/minute
9/23/2013 05:00	9/23/2013 06:00	1	UNPLANNED	Well Control events & any circulating related to g	U_WC	Shut in well. Monitored pressure, no pressure on backside. Discussed with Superintendent Jess Arnold, and decision made to build 9.0 ppg mud to pump downhole.

Report #: 11 Daily Operation: 9/23/2013 06:00 - 9/24/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
-------------------------------	-------------------------	----------------------

Days From Spud (days) 8	Days on Location (days) 11	End Depth (ftGRD) 7,478.5	End Depth (TVD) (ftGRD) 7,460.4	Dens Last Mud (lb/gal) 9.00	Rig PATTERSON - UTI, 225
----------------------------	-------------------------------	------------------------------	------------------------------------	--------------------------------	-----------------------------

Operations Summary

Build 9.0 ppg mud in pit and pump back to surface to stop well from flowing water, L/D 9-5/8" casing F/ 1,158' - surface, P/U BHA with drill bit & stage in hole to 1,056', Circulate surface to surface, TIH to 2,096', Circulate surface to surface, TIH to 3,054', Circulate surface to surface, Monitor well on trip tank, and build mud.

Remarks

Rig (Patterson 225) & Well Progress: 10.50 days on location, 8.54 days since rig accepted on, 8.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0 NPT hours for Well

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 7,505' MD, 13.7° Inc, 331.1° Azm. 6' Below , 8' Right of Plan #1

Cenergy Inspection Report: 80% Corrected

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/23/2013 06:00	9/23/2013 13:00	7	PLAN	WLCOND	CIRC	Dump mud in active pits, fill w/ fresh water, mix gel and barite to get active pits to 35-36 vis, 9.1+ wt Monitor flow in trip tank: first hour average 2bbl per min, 2nd hour average 1.2 bbl per min, 3rd hour 0.91 bbl per min, 4th hour 0.48 bbl per min, shut choke closing well. Fluid check coming out of well 9.0 mud weight steady, chlorides jumping 42,000 to 50,000
9/23/2013 13:00	9/23/2013 13:30	0.5	PLAN	PERS	SFTY	Meeting w/ Patterson crew & mud engineer about displacement
9/23/2013 13:30	9/23/2013 15:00	1.5	INT-CIRC	CIRCULATE	CIRC	Check PSI on well 0 psi. Open choke small 1/8" flow, watch for 5 min no bbl indicated on trip tank monitor, open BOP, Displace well w/ 234 bbl, went 72 bbls over the proper displacement w/ good flow, circulated 30 min over and check for flow. Well static (no flow) Pump 35 bbl slug of 2 ppb over casing dry.
9/23/2013 15:00	9/23/2013 15:30	0.5	PLAN	PERS	SFTY	Safety meeting w/ Patterson & Express crew about L/D casing
9/23/2013 15:30	9/23/2013 18:00	2.5	UNPLANNED	Tight Hole / Swabbing / Circulating in relation to	U_TH	L/D casing from 1158' - Surface. 800' lost partial returns add fresh water to trip tank to cut mud weight, regain 3/4 of losses Lost total of 125 bbl down hole.
9/23/2013 18:00	9/23/2013 19:00	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	R/D crasing crew, and CRT
9/23/2013 19:00	9/23/2013 20:00	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Strap caliper, and inspect BHA
9/23/2013 20:00	9/23/2013 21:00	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	P/U bit sub, 1 - 8" D.C., X-over, and M/U 12-1/4" Halliburton MM75D PDC bit (same bit used to T.D. Intermediate)
9/23/2013 21:00	9/23/2013 23:00	2	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	P/U 20 joints of HWDP, jars, and 4 stds. of D.P. from derrick to 1,054'
9/23/2013 23:00	9/23/2013 23:30	0.5	INT-CIRC	CIRCULATE	CIRC	Fill pipe and circulate 1,500 stks. Circulated fresh mud to surface. Hole taking mud, lost 43 bbls during circulation.
9/23/2013 23:30	9/24/2013 00:30	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/ 11 stds. F/ 1,054' - 2,096', receiving 11%-13% flow on each std. run, hole taking mud losing 60% displacement.
9/24/2013 00:30	9/24/2013 01:00	0.5	INT-CIRC	CIRCULATE	CIRC	Fill pipe and circulate 3,000 stks. Circulated fresh mud to surface. Pumped 40 bbl LCM sweep with 10 ppb Tiger Bulets Regular and 10 ppb LCF Blend. Hole taking mud, lost 52 bbls during circulation.
9/24/2013 01:00	9/24/2013 02:00	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/ 10 stds. F/ 2,096' - 3,045', receiving 11%-13% flow on each std. run, hole taking mud losing 60% displacement.
9/24/2013 02:00	9/24/2013 03:00	1	INT-CIRC	CIRCULATE	CIRC	Fill pipe and circulate 4,500 stks. Circulated fresh mud to surface. Pumped 40 bbl LCM sweep with 10 ppb Tiger Bulets Regular and 10 ppb LCF Blend. Hole taking mud, lost 39 bbls during circulation.
9/24/2013 03:00	9/24/2013 06:00	3	PLAN	WLCOND	CIRC	After killing pumps well continued to flow @ 1 bbl/min for first hour, then slowed to 0.5 bbl/min. Continued to monitor flow on trip tank while weighting up system from 8.9 ppg to 9.0 ppg and increase viscosity from 33 - 36.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 12 Daily Operation: 9/24/2013 06:00 - 9/25/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 028096				
Days From Spud (days)	9	Days on Location (days)	12	End Depth (ftGRD)	7,478.5	End Depth (TVD) (ftGRD)	7,460.4	Dens Last Mud (lb/gal)	9.00	Rig	PATTERSON - UTI, 225

Operations Summary

TIH F/ 3,045' - 3,991', Circulate fresh mud to surface, TIH F/ 3,991' - 4,957', Circulate fresh mud to surface, TIH F/ 4,957' - 5,145', Wash and ream F/ 5,145' - 7,505', Pump 2 sweeps to clean hole, Condition mud and bring down yield point from 16 - 9, TOH 1 std, Wash and ream tight spot and circulate bottoms up, TOH on elevators F/ 7,412' - 5,797'

Remarks

Rig (Patterson 225) & Well Progress: 11.50 days on location, 9.54 days since rig accepted on, 9.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0 NPT hours for Well

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 7,505' MD, 13.7° Inc, 331.1° Azm. 6' Below , 8' Right of Plan #1

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/24/2013 06:00	9/24/2013 07:00	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/ 10 stds. F/ 3,045' to 3991' receiving 11%-13% flow on each std. run, hole taking mud losing 20% displacement.
9/24/2013 07:00	9/24/2013 08:30	1.5	INT-CIRC	CIRCULATE	CIRC	Fill pipe and circulate 469 bbl / 4,700 stks. @ 80 spm, 337 gpm, Circulated fresh mud to surface. Pumped 40 bbl LCM sweep with 10 ppb Tiger Bulets Regular and 10 ppb LCF Blend. Hole taking mud, lost 22 bbls sent 10 bbl to reserve of contaminated mud during circulation. no flow
9/24/2013 08:30	9/24/2013 09:00	0.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH slow w/ 10 stds. F/ 3991' to 4957' receiving 2%-4% flow on each std in displacement, hole taking mud losing 20% displacement.
9/24/2013 09:00	9/24/2013 10:00	1	INT-CIRC	CIRCULATE	CIRC	Fill pipe and circulate 700 bbl / 7020 stks. @ 100 spm, 437 gpm, Circulated fresh mud to surface. Pumped 40 bbl LCM sweep with 25 ppb Tiger Bulets extreme, K seal, walnut medium. Hole taking mud, lost 18 bbls sent 0 bbl to reserve of contaminated mud during circulation. Check for flow no flow
9/24/2013 10:00	9/24/2013 10:30	0.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH 4957' to 5145' hit bridge, wash and ream tourqe 2000-14000, gpm
9/24/2013 10:30	9/24/2013 11:00	0.5	INT-W&R	WASH & REAM	WASH_R EAM	Wash and ream 3 times thru tight formation from 5145 to 5239'. till no drag W/80 spm, 335 gpm 520 spp, lost no losses or gain, check flow no flow
9/24/2013 11:00	9/24/2013 13:00	2	INT-W&R	WASH & REAM	WASH_R EAM	TIH from 5239' to 5302' hit bridge wash and ream from 5302 to 5532', ratty formation, dragging up and down work thru 5 time slowly to clean up, w/ torque 2000-16000, gpm 589, rpm 100. lost total in hole 35 bbl. Pump 40 bbl LCM sweep at start of clean up of 20 ppb of tiger bulets, K seal and walnut
9/24/2013 13:00	9/24/2013 17:00	4	INT-W&R	WASH & REAM	WASH_R EAM	Wash & ream rest down from 5532' to 6839' w/ less drag, torque 2000-4000' pounds, rpm 100, psi 1300, gmp 587, flow 29% lost of 8 bbl, 2 bbl per hour
9/24/2013 17:00	9/24/2013 18:00	1	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig and top drive, check bolts
9/24/2013 18:00	9/24/2013 20:00	2	INT-W&R	WASH & REAM	WASH_R EAM	Wash and ream F/6,839' - 7,505', P/U 9 joints of 5" D.P. to replace BHA L/D @ Intermediate T.D. 140 spm, 587 gpm, 1,335 spp, 100 top drive rpm, 4k-4.5k trq. No problems encountered, full returns, no losses.
9/24/2013 20:00	9/25/2013 02:30	6.5	INT-CIRC	CIRCULATE	CIRC	Build and pump 2 - 40 bbls sweeps 10 min apart. Reciprocate pipe 90' while circulating conditioning mud bringing yield piont from 16 down to 9, 180 spm, 754 gpm, 2,060' spp, 50 top drive rpm, 4k-4.5k trq.
9/25/2013 02:30	9/25/2013 03:30	1	INT-TRIP	TOOH	TRIP	TOH with 1 std F/ 7,505' - 7,412'. Hole pulled tight, pulling 40k -50k over. Screw into drill string and wash and ream std. 150 gpm, 630 gpm, 1,511 spp, 20 top drive rpm, 6k-14k trq.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/25/2013 03:30	9/25/2013 04:30	1	INT-CIRC	CIRCULATE	CIRC	Reciprocate pipe 90' while circulating bottoms up (9,000 stks), 180 spm, 754 gpm, 2,060 spp, 50 top drive rpm, 4k-4.5k trq.
9/25/2013 04:30	9/25/2013 06:00	1.5	INT-TRIP	TOOH	TRIP	TOH on elevators F/ 7,412' - 5,797'

Report #: 13 Daily Operation: 9/25/2013 06:00 - 9/26/2013 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	028096

Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig
10	13	7,478.5	7,460.4	9.00	PATTERSON - UTI, 225

Operations Summary

Work on trip tank pumps, TOH and L/D BHA F/ 5,797' - Surface, R/U casing crew and CRT, Run 9-5/8" Intermediate Casing F/ Surface - 1,498', Circulate bottoms up, Run Casing F/ 1,498' - 2,281', Circulate bottoms up, Run Casing F/ 2,281' - 3,126' (lost returns on last 2 joints run), Regain circulation and pump bottoms up, Run Casing F/ 3,126' - 3,920'.

Remarks

Rig (Patterson 225) & Well Progress: 12.50 days on location, 10.54 days since rig accepted on, 10.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 7,505' MD, 13.7° Inc, 331.1° Azm. 6' Below , 8' Right of Plan #1

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/25/2013 06:00	9/25/2013 07:00	1	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Both trip tank pump not working filling hole, # 1 love joy come apart, # 2 suction plugged off. Use charge pump to unstop suction on # 2 pump
9/25/2013 07:00	9/25/2013 08:00	1	INT-TRIP	TOOH	TRIP	TOOH f/ 5,797' to 4096' no drag & proper hole fill
9/25/2013 08:00	9/25/2013 09:00	1	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	# 2 pump quit working suction stop up notice suction valve stem broke valve closing when working, take love joy off # 2 to put on # 1 pump
9/25/2013 09:00	9/25/2013 10:30	1.5	INT-TRIP	TOOH	TRIP	TOOH f/ 4096' to BHA, no drag & taking proper displacement
9/25/2013 10:30	9/25/2013 11:30	1	INT-TRIP	TOOH	TRIP	L/D BHA, 20 HW drill pipe, 1-8" DC and subs,
9/25/2013 11:30	9/25/2013 12:30	1	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig
9/25/2013 12:30	9/25/2013 13:00	0.5	PLAN	PERS	SFTY	Safety meeting w/ Patterson & Express crews
9/25/2013 13:00	9/25/2013 16:00	3	PLAN	DRLG	CSG	Rig up casing crew, tongs leaking fluid change out w/ spair set
9/25/2013 16:00	9/25/2013 17:00	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	M/U float shoe onto two joint shoe track of 9 5/8" 43.5 lb/ft L80 IC LTC Casing. M/U float collar. M/U 1 joint of casing on top of float collar.
9/25/2013 17:00	9/25/2013 17:30	0.5	PLAN	DRLG	CSG	Rig up CRT tool w/ torque turn, test tool and floats
9/25/2013 17:30	9/25/2013 22:30	5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run 9-5/8" Intermediate Casing F/ 143' - 1,498'. Average torque 8,130 ft/lbs. and have 17% flow on each joint ran. Shoe set @ 7,500' MD Float Collar set @ 7,470' MD Shoe Track: 96.87'
9/25/2013 22:30	9/25/2013 23:00	0.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Fill casing and circulate bottoms up @ 1,498', 100 spm, 419 gpm, 170 spp, 22% flow.
9/25/2013 23:00	9/26/2013 00:00	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run 9-5/8" Intermediate Casing F/ 1,498' - 2,281'. Average torque 8,130 ft/lbs. and have 17% flow on each joint ran.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/26/2013 00:00	9/26/2013 00:30	0.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Fill casing and circulate bottoms up @ 2,281', 100 spm, 419 gpm, 170 spp, 22% flow.
9/26/2013 00:30	9/26/2013 03:00	2.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run 9-5/8" Intermediate Casing F/ 2,281' - 3,126'. Average torque 7,270 ft/lbs. and have 17% flow on each joint ran. Ran last 2 joints with no flow.
9/26/2013 03:00	9/26/2013 04:00	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	Fill casing reciprocate pipe 65' and re-gain circulation on up stroke. Circulate bottoms up @ 3,126', 100 spm, 419 gpm, 170 spp, 26% flow.
9/26/2013 04:00	9/26/2013 06:00	2	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run 9-5/8" Intermediate Casing F/ 3,126' - 3,920'. Average torque 7,270 ft/lbs. and have 6%-10% flow on each joint ran.

Report #: 14 Daily Operation: 9/26/2013 06:00 - 9/27/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 11	Days on Location (days) 14	End Depth (ftGRD) 7,478.5	End Depth (TVD) (ftGRD) 7,460.4	Dens Last Mud (lb/gal) 9.00	Rig PATTERSON - UTI, 225	

Operations Summary

Run 9-5/8" Intermediate Casing F/3920' T/4708', Circulate bottoms up, Run Casing F/4708' T/5743', Wash F/5743' T/6455', Run Casing F/6455' T/7460', Wash F/7460' T/7498', R/D Casing crew, R/U Cementers & Cement 9-5/8" Intermediate Casing, R/D Cementers, Pack-off 9-5/8" Intermediate Casing

Remarks

Rig (Patterson 225) & Well Progress: 13.50 days on location, 11.54 days since rig accepted on, 11.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 7,505' MD, 13.7° Inc, 331.1° Azm. 6' Below , 8' Right of Plan #1

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/26/2013 06:00	9/26/2013 08:30	2.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run 9-5/8" Intermediate Casing w/ CRT F/ 3,920' - 4708' @ 40' per min. Average torque 7,270 ft/lbs. and have 8%-10% flow on each joint ran.
9/26/2013 08:30	9/26/2013 09:00	0.5	INT-CIRC	CIRCULATE	CIRC	Fill casing reciprocate pipe 40' and circulate bottoms up @ 4708', 80 spm, 337 gpm, 143 spp, 21% flow. Lost 2 bbl down hole at circulation
9/26/2013 09:00	9/26/2013 11:30	2.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run 9-5/8" Intermediate Casing w/CRT F/ 4708' - 5743' @ 40' per min. Average torque 7,270 ft/lbs. and have 6%-8% flow on each joint ran. Hit bridge
9/26/2013 11:30	9/26/2013 15:00	3.5	INT-CIRC	CIRCULATE	CIRC	Wash f/5743' to 6455', w/ 90 spm, 377 gpm, 220 psi, 21% flow, lost 75 bbl fluid down hole. Sent 1-5ppb LCM sweep of tiger bullets, K seal & walnut and circ out 2nd 20 ppb sweep left behind shoe 500 bbl/5014 strk
9/26/2013 15:00	9/26/2013 16:30	1.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run 9-5/8" Intermediate Casing w/CRT F/ 6455' T/7460' @ 40' per min. Average torque 7,270 ft/lbs. and have 10%-15% flow on each joint ran.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/26/2013 16:30	9/26/2013 22:00	5.5	INT-W&R	WASH & REAM	WASH_REAM	<p>Wash last 2 joints of 9 5/8" 40# L80 LTC casing to bottom F/7460' T/7498' with 80 spm - 334 gpm</p> <p>Float shoe @ 7498' Float Collar @ 7403' Bow Spring Centralizers every 3rd Jt. F/2920' T/7403'</p> <p>Note: At 7490' when washing to bottom, felt like we were hanging up. Staged pumps up to 140 spm, 588 gpm, 385 psi & 30 % flow, Pumped a 40 bbl 60 visc sweep around with 9300 stks while working pipe, string weight of 285k, pulling up too 100k over to pull free at times. Staged pumps up to 200 spm, 840 gpm, 500/800 psi, & 30% flow. Pumped 40 bbl polymer sweep around & getting over shakers shale & white lime from sweep. Hanger hanging up in BOP, lay down hanger & pickup another joint of casing to wash to bottom to keep from damaging hanger & BOP. Washed down to 7500', layed down jt & landed hanger. Lost roughly 25 bbls while washing to bottom.</p>
9/26/2013 22:00	9/26/2013 22:30	0.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	R/D casing crew & CRT
9/26/2013 22:30	9/27/2013 00:00	1.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	R/U Schlumberger Cement, hold safety meeting with rig crew, cementers, and PNR representatives over cement operations. Verify loading of bottom & top plug with tattle tail by company man, rig manager & Schlumberger supervisor.
9/27/2013 00:00	9/27/2013 04:30	4.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	<p>Schlumberger cement 9 5/8" Intermediate casing as follows:</p> <p>Pressure test cement lines to 3500 psi</p> <p>Drop bottom plug</p> <p>40 bbls 8.33 lb/gal viscosified water. Mixed with 1.00 lb/bbl of viscosifier D208.</p> <p>1,688 sk 488.3 bbl, 12.5 lb/gal TXI Slurry, 1.62 yield. Mixed with 8.51 gal/sk H2O, 75 lb/sk cement D049, 0.4% fluid loss D207, 3.0% extender D020, 0.2% Dispersant D065, 0.2% Anti foam D046, 0.2% Retarder D013, 3 lb/sk Extender D042, and 0.1 lb/sk Lost circulation control agent D130.</p> <p>163 sk 30.9 bbl, 16.4 lb/gal Tail Tack Slurry, 1.07 yield. Mixed with 4.359 gal/sk H2O, 94 lb/sk Cement (H), 0.2% Anti foam D046, 0.3% Retarder D013, 0.2% Dispersant D065.</p> <p>Drop top plug with tattle tail</p> <p>Displaced cement with 552 bbls of 9.5 ppg OBM. Displaced final 20 bbls at 2.2 bpm. Bump plug with 850 psi 500 psi over final lift pressure of 350 psi. Floats held, bled back 2 bbls after 5 minutes.</p> <p>Returns through out cement job.</p> <p>Lift pressures: 50 bbl- 8.0 bpm 560 psi, 100 bbl- 8.0 bpm 550 psi, 200 bbl- 7.8 bpm 535 psi, 300 bbl- 6.2 bpm 360 psi, 400 bbl - 6.1 bpm 386 psi, 450 bbl- 6.1 bpm 450 psi, 500 bbl- 6.1 bpm 550 psi, 550 bbl- 2.2 bpm 350 psi, 552 bbl- 2.2 bpm 850 psi</p>
9/27/2013 04:30	9/27/2013 06:00	1.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Flush and clean cement lines, R/D cementers, wash thru BOP & choke, back out landing jt & lay down

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 15 Daily Operation: 9/27/2013 06:00 - 9/28/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
12	15	7,733.5	7,686.1	9.50	PATTERSON - UTI, 225	

Operations Summary

Pack-off 9-5/8" Intermediate Casing, Remove casing bails & elevators, Install rig bails & elevators, Slip & cut drill line, Rig Service, P/U curve/lateral BHA, TIH, P/U 5" DP, Test casing to 5,000 psi, Drill cement shoe track, Perform F.I.T., Drill curve F/ 7,505 T/7,760'

Remarks
Rig (Patterson 225) & Well Progress: 14.50 days on location, 12.54 days since rig accepted on, 12.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0 NPT hours for Well

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 30%, Lateral- 0%

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 7,685' MD, 31.6° Inc, 330° Azm. 9' Low , 9' Left Plan #1

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/27/2013 06:00	9/27/2013 08:00	2	PLAN	EQUIP	WLHEAD	Back off landing joint, pull out and install running tool and pack off. Run in with pack off and verify good seat (ok). Secure pack off and pack off to 5,000 psi, held pressure for 5 min (ok). Test mandrel seals to 2,500 psi, held pressure for 5 min (ok). Back out landing joint and remove running tool, lay down landing joint.
9/27/2013 08:00	9/27/2013 08:30	0.5	PLAN	EQUIP	WLHEAD	Remove casing bails and elevators. Install rig bails and elevators. P/U joint of DP and install short wear bushing, secure wear bushing in place.
9/27/2013 08:30	9/27/2013 11:00	2.5	PLAN	DRLG	CUTDL	Slip & cut 15 wraps of drilling line
9/27/2013 11:00	9/27/2013 12:00	1	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig
9/27/2013 12:00	9/27/2013 15:30	3.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Pick up directional tools. Pick up mud motor w/ slick assembly 4/5L 7.0S set @ 2° (.50 rev/gal). Make up UBHO to top of motor, MWD not seating properly in UBHO change out with new. Scribe bend up to UBHO. Make up bottom NMDC. Install MWD and confirm good seat. Pick up top flex monel and XO sub to go from XH to IF. Transfer OBM to active pits 54 bbls to test motor. Shallow test directional tools 337 gpm, 815 psi (good test). Make up 8 1/2" Security MMD55 PDC jetted with 5/22's jets and 2/22's ports (2.597 tfa).
9/27/2013 15:30	9/27/2013 20:00	4.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/ curve and lateral assembly F/BHA T/7390' Tagged TOC @ 7390'
9/27/2013 20:00	9/27/2013 21:00	1	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Fill pipe & test 9-5/8" Intermediate Casing to 2,500 psi, pressure stabilized @ 2460 psi (test good).
9/27/2013 21:00	9/27/2013 22:30	1.5	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Drill plug and cement shoe track F/7,390' T/7498' Tagged Shoe @ 7,498'
9/27/2013 22:30	9/27/2013 23:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate Drill Production Section 10' of new formation 100 spm, 420 gpm, 1824 spp, 425 psi diff, 50 top drive rpm, 210 motor rpm, 240 total bit rpm, 10k wob, 5k ft/lbs trq.
9/27/2013 23:00	9/27/2013 23:45	0.75	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Perform F.I.T. to 13.0 ppg EMW @ 1,366 psi with 9.5 MW in hole @ 7,515' TVD. Test leaked off to 1,295 psi, giving 12.81 ppg EMW
9/27/2013 23:45	9/28/2013 06:00	6.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide drilling in 8 1/2" Production section 245' @ 39.2 ft/hr. 10/15k wob, 140 spm, 586 gpm, 2400 spp, 150/350 psi diff, 293 motor rpm, 293 total bit rpm. (GTF- 0)

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 16 Daily Operation: 9/28/2013 06:00 - 9/29/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 028096	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
13	16	11,345.5	7,923.2	9.30	PATTERSON - UTI, 225			

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/7760' T/8283', Landed Curve @ 8283', Rot/Slide drill F/8283' T/9110', Rig Service, Rot/Slide drill F/9110' T/11372'

Remarks

Rig (Patterson 225) & Well Progress: 15.50 days on location, 13.54 days since rig accepted on, 13.29 days since spud. Rig move day's 1.50

Rig NPT:0.0 hours for previous 24 hours. 0 NPT hours for Well

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 31%

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 11,352' MD, 90.8° Inc, 3.6° Azm. 8' High , 56' Right Plan #2

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/28/2013 06:00	9/28/2013 09:30	3.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide drilling in 8 1/2" Production section 396' @ 113 ft/hr. 15-25k wob, 140 spm, 586 gpm, 2800 spp, 400/650 psi diff, 293 motor rpm, 293 total bit rpm. (GTF- 0)
9/28/2013 09:30	9/28/2013 11:00	1.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate Drill 8 1/2" Production Section 288' @ 192 ft/hr. 140 spm, 586 gpm, 3250 spp, 700/900 diff psi, 110 top drive rpm, 293 motor rpm, 403 total bit rpm, 20k wob, 9/12k ft/lbs trq. Land curve @ 8283' TVD 7936'
9/28/2013 11:00	9/28/2013 11:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 29' @ 58 ft/hr.
9/28/2013 11:30	9/28/2013 12:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 161' @ 322 ft/hr.
9/28/2013 12:00	9/28/2013 12:45	0.75	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 16' @ 31 ft/hr.
9/28/2013 12:45	9/28/2013 13:00	0.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 79' @ 316 ft/hr.
9/28/2013 13:00	9/28/2013 13:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 35' @ 70 ft/hr.
9/28/2013 13:30	9/28/2013 13:45	0.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 61' @ 244 ft/hr.
9/28/2013 13:45	9/28/2013 14:30	0.75	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 33' @ 44 ft/hr.
9/28/2013 14:30	9/28/2013 16:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 252' @ 168 ft/hr.
9/28/2013 16:00	9/28/2013 16:30	0.5	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig, top drive & crown
9/28/2013 16:30	9/28/2013 17:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 17' @ 34 ft/hr. GTF-60L
9/28/2013 17:00	9/28/2013 18:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 359' @ 239.3 ft/hr.
9/28/2013 18:30	9/28/2013 19:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 23' @ 46 ft/hr. GTF-60L
9/28/2013 19:00	9/28/2013 22:15	3.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 640' @ 196.9 ft/hr.
9/28/2013 22:15	9/28/2013 22:45	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 16' @ 32 ft/hr. GTF-140L
9/28/2013 22:45	9/29/2013 01:00	2.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 453' @ 201.3 ft/hr.
9/29/2013 01:00	9/29/2013 01:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 40 ft/hr. GTF-120R
9/29/2013 01:30	9/29/2013 03:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 434' @ 217 ft/hr.
9/29/2013 03:30	9/29/2013 04:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 40 ft/hr. GTF-140R

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/29/2013 04:00	9/29/2013 05:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 260' @ 173.3 ft/hr.
9/29/2013 05:30	9/29/2013 06:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 40 ft/hr. GTF-130L

Report #: 17 Daily Operation: 9/29/2013 06:00 - 9/30/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 14	Days on Location (days) 17	End Depth (ftGRD) 13,345.5	End Depth (TVD) (ftGRD) 7,934.4	Dens Last Mud (lb/gal) 9.30	Rig PATTERSON - UTI, 225	

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/11372' T/11610', Repair liner gasket on #1 Pump, Rotate/Slide drill F/11610' T/12300', Rig Service, Rot/Slide drill F/12300' T/13372'

Remarks

Rig (Patterson 225) & Well Progress: 16.50 days on location, 14.54 days since rig accepted on, 14.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0.0 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 51%

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 13,246' MD, 91.5° Inc, 0.4° Azm. 0' High/Low , 10' Right Plan #2

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/29/2013 06:00	9/29/2013 06:15	0.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 71' @ 284 ft/hr. 140 spm, 586 gpm, 3750 spp, 600/800 diff psi, 110 top drive rpm, 293 motor rpm, 403 total bit rpm, 20k wob, 10/12k ft/lbs trq.
9/29/2013 06:15	9/29/2013 07:30	1.25	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 33' @ 26.4 ft/hr. 20-35k wob, 140 spm, 586 gpm, 2800 spp, 150-450 psi diff, 293 motor rpm, 293 total bit rpm. (GTF- 60 L)
9/29/2013 07:30	9/29/2013 07:45	0.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 62' @ 248 ft/hr.
9/29/2013 07:45	9/29/2013 09:00	1.25	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 42' @ 34 ft/hr. GTF-60L
9/29/2013 09:00	9/29/2013 09:15	0.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 30' @ 120 ft/hr. 110 spm, 463 gpm, 2425 spp, 300/400 diff psi, 120 top drive rpm, 232 motor rpm, 352 total bit rpm, 10k wob, 7/9k ft/lbs trq.
9/29/2013 09:15	9/29/2013 10:00	0.75	UNPLANNED	Rig Repair (NON-CODE 8, Replacing Pump Expendables)	U_RIG_OTR	Liner leaking on #1 pump center liner gasket, repair working string 60' circ. with #2 w/ 110 spm, 453 gpm
9/29/2013 10:00	9/29/2013 14:00	4	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 596' @ 149 ft/hr. 140 spm, 586 gpm, 3750 spp, 600/800 diff psi, 110 top drive rpm, 293 motor rpm, 403 total bit rpm, 20k wob, 10/12k ft/lbs trq.
9/29/2013 14:00	9/29/2013 15:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 30' @ 30 ft/hr. GTF-160L
9/29/2013 15:00	9/29/2013 15:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 64' @ 128 ft/hr.
9/29/2013 15:30	9/29/2013 16:00	0.5	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig and top drive
9/29/2013 16:00	9/29/2013 17:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 110' @ 110 ft/hr. Note: Slow ROP to 225 ft/hr & start back reaming every std to keep hole clean in addition to pumping 20 bbl sweeps every 200'.
9/29/2013 17:00	9/29/2013 17:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr. GTF-30R
9/29/2013 17:30	9/29/2013 18:15	0.75	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 64' @ 85.3 ft/hr.
9/29/2013 18:15	9/29/2013 19:30	1.25	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 25' @ 20 ft/hr. GTF-50R

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/29/2013 19:30	9/29/2013 21:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 258' @ 129 ft/hr.
9/29/2013 21:30	9/29/2013 22:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 40 ft/hr. GTF-360
9/29/2013 22:00	9/29/2013 22:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 106' @ 212 ft/hr.
9/29/2013 22:30	9/29/2013 23:15	0.75	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 18' @ 24 ft/hr. GTF-0
9/29/2013 23:15	9/30/2013 00:00	0.75	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 77' @ 102.6 ft/hr.
9/30/2013 00:00	9/30/2013 01:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 25' @ 25 ft/hr. GTF-0
9/30/2013 01:00	9/30/2013 02:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 133' @ 88.6 ft/hr.
9/30/2013 02:30	9/30/2013 03:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 25' @ 25 ft/hr. GTF-130R
9/30/2013 03:30	9/30/2013 04:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 70' @ 70 ft/hr.
9/30/2013 04:30	9/30/2013 05:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 40 ft/hr. GTF-130R
9/30/2013 05:00	9/30/2013 06:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 106' @ 106 ft/hr.

Report #: 18 Daily Operation: 9/30/2013 06:00 - 10/1/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
15	18	14,570.5	7,928.1	9.50	PATTERSON - UTI, 225	

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/13372' T/14571', Rig Service, Rot/slide drill F/14571' T/14597, Circulate, POOH F/14597' T/4500

Remarks

Rig (Patterson 225) & Well Progress: 17.50 days on location, 15.54 days since rig accepted on, 15.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0.0 NPT hours for Well.

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 14,571' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/30/2013 06:00	9/30/2013 12:30	6.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 916' @ 141 ft/hr. 134 spm, 560 gpm, 3900 spp, 500/650 diff psi, 110 top drive rpm, 280 motor rpm, 390 total bit rpm, 20k wob, 10/12k ft/lbs trq.
9/30/2013 12:30	9/30/2013 14:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 189' @ 94.5 ft/hr. 130 spm, 543 gpm, 3850 spp, 500/650 diff psi, 110 top drive rpm, 272 motor rpm, 382 total bit rpm, 20k wob, 10/12k ft/lbs trq.
9/30/2013 14:30	9/30/2013 15:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 20 ft/hr. 50 - 60k wob, 140 spm, 586 gpm, 3700 spp, 150 - 250 psi diff, 293 motor rpm, 293 total bit rpm. (GTF= 120 L)
9/30/2013 15:30	9/30/2013 16:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate drilling in 8 1/2" Production section 74' @ 148'/hr.
9/30/2013 16:00	9/30/2013 17:00	1	PLAN	EQUIP	RIGSER	Daily rig service.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/30/2013 17:00	9/30/2013 17:30	0.5	UNPLANNED	Directional Equipment Failure (motor/rotary steera	U_DIR	When making a connection found that drill pipe screen was missing and out side ring was still in drill pipe. When sliding ahead on last stand pressure came up rapidly due to weight breaking off causing a stall out. When screen was not found and ring was still there, decision was made to break off 3" hammer union with bull plug on goose neck to check for and remove drill pipe screen. Drill pipe screen was removed successfully, replaced and continued drilling operations.
9/30/2013 17:30	9/30/2013 21:00	3.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 5.7 ft/hr. GTF= 180 Note: @ 14592' Having problems sliding, once we get to bottom & apply weight, motor stalls. Attempted to rotate F/14592' T/14597' , lost diff psi with 25k wob @ 14597'.
9/30/2013 21:00	9/30/2013 22:30	1.5	PROD-CIRC	CIRCULATE	CIRC	Circulate 30 bbl weighted sweep around with 9615 stks @ 110 rpm, 140 spm, 3275 psi while working pipe, preparing to POOH for mud motor
9/30/2013 22:30	10/1/2013 06:00	7.5	PROD-TRIP BHA	TRIP FOR BHA	TRIP BHA	Pump slug & POOH F/14597' T/4500' with trip tank, Hole taking proper displacement. Note: Checked for flow @ 14101' . No flow, well is static. Checked for flow @ 7500'. No flow, well is static.

Report #: 19 Daily Operation: 10/1/2013 06:00 - 10/2/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
16	19	14,570.5	7,928.1	9.70	PATTERSON - UTI, 225		

Operations Summary

TOOH F/4500' T/BHA, Lay down BHA & break bit, P/U 6.75" 7/8 4.0 mud motor set @ 2° (Adjustable housing) (0.5 Rev/gal) & 8-1/2" Security Bit, Rig Service, TIH F/BHA T/7498, Circulate, TIH F/7498' T/8073', Wash F/8073' T/8500', TIH F/8500' T/10400', Circulate while bringing Mw up to a 10 ppg due to stopped water influx from nearby frac operations

Remarks

Rig (Patterson 225) & Well Progress: 18.50 days on location, 16.54 days since rig accepted on, 16.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0.0 NPT hours for Well.

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 14,571' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/1/2013 06:00	10/1/2013 08:30	2.5	PLAN	EQUIP	BHA	Continue to TOOH F/4500' T/ directional BHA.
10/1/2013 08:30	10/1/2013 10:30	2	PLAN	EQUIP	BHA	Attempted to drain BHA but could not do so due to broken transmission on mud motor. Broke bit off. Went back down with BHA to NMDC, broke off & retrieved MWD tool. Changed out mud motors, Pick up 6.75" 7/8 4.0 mud motor set @ 2° (Adjustable housing) (0.5 Rev/gal). Scribe up to UBHO. Set MWD back in place. Shallow test directional tools (good test). Pick up 8 1/2" Security MMD55 PDC bit jetted with 7/22's (2.597 tfa).
10/1/2013 10:30	10/1/2013 11:30	1	PLAN	EQUIP	RIGSER	Daily rig service. Conducted inspection of derrick, mud lines, and top drive for proper safety keepers and pins (ok).
10/1/2013 11:30	10/1/2013 15:00	3.5	PROD-TRIP	TRIP	TRIP	TIH with BHA # 6 F/ bank - intermediate casing shoe @ 7498'
10/1/2013 15:00	10/1/2013 16:00	1	PROD-CIRC	CIRCULATE	CIRC	Circulate surface to surface with 5203 stks @ 100 spm, 1450 psi. Full returns
10/1/2013 16:00	10/1/2013 16:30	0.5	PROD-TRIP	TRIP	TRIP	TIH F/7498' T/8073'

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/1/2013 16:30	10/1/2013 18:00	1.5	PROD1	WASH TO BTM	WA	Wash F/8073' T/8500' to clean up curve
10/1/2013 18:00	10/1/2013 20:00	2	PROD-TRIP	TRIP	TRIP	TIH F/8500' T/10400'
10/1/2013 20:00	10/2/2013 06:00	10	UNPLANNED	Well Control events & any circulating related to g	U_WC	<p>After filling pipe @ 10400', did a flow check & noticed well was flowing with a small trickle & Switched over to trip tank to monitor 1% flow. Took mud check to verify & had a Mw in 9.7 vis 88 & Mw out 9.5 vis 103. Vis was at a 73 when we started tripping in hole. O/W changed from 68/32 to a 48/52. Noticed we are getting about 0.25-0.5 bbl/min from nearby Frac operations. Put pumps on hole & it started to pack off, shut pumps in & picked up. Staged pumps on hole establishing circulation, continued to see gain in pit volume.</p> <p>Notified superintendent & decision was made to continue circulating & get Mw up to 10 ppg throughout system.</p> <p>Circulating while bringing Mw up to a 10 ppg due to getting stopped water influx from nearby Frac Operations</p> <p>21:30- Mw in 9.7 Vis 102 Out 9.1 Vis 180 22:00- Mw in 9.6 Vis 147 Out 9.4 Vis 106 22:30- Mw in 9.8 Vis 110 Out 9.3 Vis 100 - Frac Operations Shut down 23:00- Mw in 9.6 Vis 90 Out 9.6 Vis 115 23:30- Mw in 9.6 Vis 106 Out 9.7 Vis 109 00:00- Mw in 9.6 Vis 110 Out 9.4 Vis 103 00:30- Mw in 9.6 Vis 101 Out 9.6 Vis 110 01:00- Mw in 9.6 Vis 94 Out 9.6 Vis 91 01:30- Mw in 9.6 Vis 93 Out 9.3 Vis 89 02:00- Mw in 9.7 Vis 88 Out 9.3 Vis 80 02:30- Mw in 9.7 Vis 86 Out 9.3 Vis 84 03:00- Mw in 9.9 Vis 86 Out 9.4 Vis 85 03:30- Mw in 10 Vis 85 Out 9.7 Vis 90 04:00- Mw in 9.9 Vis 88 Out 9.8 Vis 91 04:30- Mw in 9.9 Vis 88 Out 9.7 Vis 88 05:00- Mw in 9.9 Vis 89 Out 9.7 Vis 86 05:15- Mw in 9.9 Vis 89 Out 9.7 Vis 86</p>

Report #: 20 Daily Operation: 10/2/2013 06:00 - 10/3/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
17	20	14,570.5	7,928.1	10.90	PATTERSON - UTI, 225	

Operations Summary

Circulate @ 10359' while bringing Mw up to a 10 ppg, Flow check, TOO H F/10359' T/8600', Flow check, TOO H F/8600' T/7500', Circulate while bringing Mw up to a 10.5 ppg, Flow check, TOO H F/7500' T/BHA, L/D Lateral BHA, Pull wear bushing, PJSM & R/U wireline operations, Run in hole to set composite bridge plug

Remarks

Rig (Patterson 225) & Well Progress: 19.50 days on location, 17.54 days since rig accepted on, 17.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0.0 NPT hours for Well.

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 14,571' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/2/2013 06:00	10/2/2013 08:00	2	PROD-CIRC	CIRCULATE	CIRC	Bit depth 10,359', Circulate w/ RPM 40 starting GPM 590, PSI 2900 raising mud weight from 9.5 to 10.0 kill well from communication on frac on the University 10-1 # 8H

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/2/2013 08:00	10/2/2013 09:00	1	UNPLANNED	Well Control events & any circulating related to g	U_WC	Check for flow in trip tank, well flowing 1 bbl per hour, getting everything ready to TOO H to shoe.
10/2/2013 09:00	10/2/2013 11:00	2	INT-TRIP	TOOH	TRIP	TOOH from 10,359' to bottom of shoe 8,600' w/ no drag had 3 bbl gain after displacement.
10/2/2013 11:00	10/2/2013 11:30	0.5	PROD-CIRC	CIRCULATE	CIRC	Check for flow @ bottom of curve for 30 min, gain 1/2 bbl in trip tank (same)
10/2/2013 11:30	10/2/2013 13:30	2	PROD-TRIP	TRIP	TRIP	TOOH from 8600' to 7500' @ shoe
10/2/2013 13:30	10/2/2013 20:00	6.5	PROD-CIRC	CIRCULATE	CIRC	Bit depth 7500' Circulate raising mud weight to 10.5 (vis out 10.2 in 10.6)
10/2/2013 20:00	10/2/2013 20:30	0.5	UNPLANNED	Well Control events & any circulating related to g	U_WC	Flow check, well static. Preparing slug to TOO H
10/2/2013 20:30	10/3/2013 00:30	4	PROD-TRIP	TRIP	TRIP	Pump slug & TOO H F/7500' T/BHA
10/3/2013 00:30	10/3/2013 02:30	2	PLAN	EQUIP	BHA	L/D directional tools. Drain motor & break bit off. Run directional tools in mouse hole and begin laying down. Lay down cross over and top flex monel. Retrieve MWD tool and lay down. Lay down NMDC, UBHO, and mud motor.
10/3/2013 02:30	10/3/2013 03:30	1	PLAN	EQUIP	WLHEAD	Pull wear bushing and check for wear (no wear), clean OBM off floor & organize floor
10/3/2013 03:30	10/3/2013 05:30	2	PLAN	DRLG	WIRELN	PJSM over wireline operations, R/U wireline & test wireline lubricator, M/U 1st Composite bridge plug & running tool on wireline,
10/3/2013 05:30	10/3/2013 06:00	0.5	PLAN	DRLG	WIRELN	Running in hole to set 1st Composite bridge plug above float collar

Report #: 21 Daily Operation: 10/3/2013 06:00 - 10/4/2013 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	028096
Days From Spud (days)	Days On Location (days)	End Depth (ftGRD)
18	21	14,570.5
		End Depth (TVD) (ftGRD)
		7,928.1
		Dens Last Mud (lb/gal)
		10.90
		Rig
		PATTERSON - UTI, 225

Operations Summary

Test lubricator, Run in hole with bridge plug, Pull out running tool, R/D wireline, Rig service, M/U & run 2-7/8" tubing followed with DP, Tagged plug @ 7319', Circulate bottoms up, Test casing, PJSM & R/U Cementers, Cement 20 bbl 16.5 ppg Class H, TOO H racking back F/7300 T/6734', R/D cementers, Circulate bottoms up, TOO H laying down to run 2nd Composite bridge plug

Remarks

Rig (Patterson 225) & Well Progress: 20.50 days on location, 18.54 days since rig accepted on, 18.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0.0 NPT hours for Well.

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 14,571' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/3/2013 06:00	10/3/2013 07:30	1.5	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Safety meeting w/ crews on testing lubricator, annular and blinds. Test to 1000 psi for 15 min pressure fell to 988 psi and held good test
10/3/2013 07:30	10/3/2013 09:30	2	PLAN	DRLG	WIRELN	Run in hole (slowly plug floating) to the 2nd jt above float collar @ 7330' & set composite bridge plug
10/3/2013 09:30	10/3/2013 11:30	2	PLAN	DRLG	WIRELN	Pull out of hole with running tool & L/D wireline lubricator & equipment
10/3/2013 11:30	10/3/2013 12:30	1	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig and top drive

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/3/2013 12:30	10/3/2013 19:00	6.5	PROD-TRIP	TRIP	TRIP	M/U & run 17 jts (523') of 2-7/8" tubing stinger with perf sub on bottomw/ x-o subs & run in hole followed by DP to tag composite bridge plug with cement stinger, tagged plug @ 7319'
10/3/2013 19:00	10/3/2013 21:00	2	PROD-CIRC	CIRCULATE	CIRC	Circulate Bottoms up 7300' with 5000 stks, 50 spm, 600 psi
10/3/2013 21:00	10/3/2013 21:30	0.5	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Shut in pipe rams & test casing to top of plug to 500 psi- dropped 12 psi in 30 min- test good
10/3/2013 21:30	10/3/2013 22:30	1	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	PJSM over cementing operations & R/U cementers
10/3/2013 22:30	10/3/2013 23:30	1	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Schlumberger cement: Pressure test cement lines to 4500 psi 10 bbls 14.0 lb/gal Mud Push Express. Mixed with 1.0 lb/bbl Mudpush Express B389, 2.0 gal/bbl Surfactant B220, 0.2 gal/bbl Anti foam D206, 6597.7 lb/mgal Weighting agent D031. 106 sk 20 bbl, 16.4 lb/gal Tail Tack Slurry, 1.07 yield. Mixed with 4.208 gal/sk H2O, 94 lb/sk Cement (H), 0.1 gal/sk Anti foam D206, 0.04 gal/sk Retarder D177, 0.075 gal/sk Dispersant D080. Displaced cement with 117 bbls of 10.5 ppg OBM. Displaced final 20 bbls at 2.2 bpm.
10/3/2013 23:30	10/4/2013 00:00	0.5	PROD-TRIP	TRIP	TRIP	Pull cement stinger above cement to 6734', R/D cement equipment
10/4/2013 00:00	10/4/2013 01:30	1.5	PROD-CIRC	CIRCULATE	CIRC	Insert foam wiper ball into DP & circulate 1 complete circulation with 4500 stks, 50 spm, 570 psi
10/4/2013 01:30	10/4/2013 06:00	4.5	PROD-TRIP	TRIP	TRIP	Pump slug & TOOH laying down DP F/6734' T/2700'

Report #: 22 Daily Operation: 10/4/2013 06:00 - 10/5/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
19	22	14,570.5	7,928.1	10.90	PATTERSON - UTI, 225	

Operations Summary

TOOH laying down DP & 2-7/8" tubing, PJSM & R/U wireline, Test lubricator, M/U 2nd composite bridge plug & run to 2505', POOH & L/D wireline, R/d wireline, TIH with 21 stds to 2000', Test casing above bridge plug to 800 psi, L/D 21 stds DP, Rig Service, TIH in 2000' increments & L/D DP, Wash thru lines & pumps, Nipple down

Remarks

Rig (Patterson 225) & Well Progress: 21.50 days on location, 19.54 days since rig accepted on, 19.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0.0 NPT hours for Well.

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 14,571' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 80% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/4/2013 06:00	10/4/2013 08:00	2	PROD-TRIP	TRIP	TRIP	TOOH laying down DP F/2700' T/top of 2 7/8" stinger pipe
10/4/2013 08:00	10/4/2013 09:30	1.5	PROD-TRIP	TRIP	TRIP	L/D (17 jts) 523' of 2 7/8" stinger tubin, subs and perforated jt

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/4/2013 09:30	10/4/2013 11:00	1.5	PLAN	PERS	SFTY	PJSM over wireline operations, R/U wireline & test wireline lubricator, M/U 2nd Composite bridge plug & running tool on wireline,
10/4/2013 11:00	10/4/2013 12:30	1.5	UNPLANNED	Wireline Operation Failures (logging, electric lin	U_EL	Running in hole to set 2nd Composite bridge plug @ 2505'. Check w/ wireline and POOH, lay down lubricator & rig down Dialog's tools
10/4/2013 12:30	10/4/2013 14:00	1.5	PROD-TRIP	TRIP	TRIP	TIH w/ 21 stds of DP to lay down 2000'
10/4/2013 14:00	10/4/2013 14:30	0.5	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Attempt to test bridge plug & casing to 1000 psi not enough drill pipe weight stop test @ 800 psi contact engineer & superintendent 800 psi was good for test
10/4/2013 14:30	10/4/2013 16:00	1.5	PROD-TRIP	TRIP	TRIP	L/D 21 stds of DP 2000'
10/4/2013 16:00	10/4/2013 17:00	1	PROD-TRIP	TRIP	TRIP	TIH W/ 7 stds HWDP & 14 DP 2000' Note: TDJ is on location cleaning pits & washing rig.
10/4/2013 17:00	10/4/2013 18:30	1.5	PROD-TRIP	TRIP	TRIP	L/D 14 stds of DP & 7 stds of HWDP
10/4/2013 18:30	10/4/2013 19:30	1	PROD-TRIP	TRIP	TRIP	TIH w/21 stds of DP to lay down 2000'
10/4/2013 19:30	10/4/2013 20:00	0.5	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Rig Service
10/4/2013 20:00	10/4/2013 22:00	2	PROD-TRIP	TRIP	TRIP	L/D 21 stds of DP 2000'
10/4/2013 22:00	10/4/2013 23:00	1	PROD-TRIP	TRIP	TRIP	TIH w/19 stds of DP to lay down 1870'
10/4/2013 23:00	10/5/2013 01:30	2.5	PROD-TRIP	TRIP	TRIP	L/D 19 stds of DP 1870'
10/5/2013 01:30	10/5/2013 02:00	0.5	PROD-TRIP	TRIP	TRIP	TIH last 12 stds of DP to lay down 1200'
10/5/2013 02:00	10/5/2013 03:30	1.5	PROD-TRIP	TRIP	TRIP	L/D 12 stds of DP 1200', fill up
10/5/2013 03:30	10/5/2013 04:30	1	PROD-NU/TEST	NIPPLE UP/TEST	NU/TEST	Wash out stack and choke through kill line with line flush. Flush thru top drive, kelly line, vibrating line & 2" fill up line. Pumped through both pumps to clean out.
10/5/2013 04:30	10/5/2013 06:00	1.5	PROD-NU/TEST	NIPPLE UP/TEST	NU/TEST	Nipple down drip pan, dresser sleeve on flow line, and hang off flow line. ND choke line & kill line.

Report #: 23 Daily Operation: 10/5/2013 06:00 - 10/6/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
20	22	14,570.5	7,928.1	10.90	PATTERSON - UTI, 225	

Operations Summary

Fishing Nippling down, Install abandonment cap and NU, Test Casing to 800 psi, Prepare rig for skid, Rig Released @ 18:00hrs on 10/5/13

Remarks

Rig (Patterson 225) & Well Progress: 22.50 days on location, 20.54 days since rig accepted on, 20.29 days since spud. Rig move day's 1.50

Rig NPT: 0.0 hours for previous 24 hours. 0.0 NPT hours for Well.

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

Corrosion Ring In 9/17/13 @ 16:00 hrs. Out 9/22/13 @ 00:30 hrs. Hours in string= 104.5

PTB= 14,571' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 80% Corrected

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/5/2013 06:00	10/5/2013 09:30	3.5	PLAN	EQUIP	BOPS	Nipple down Katch Kan drip pan, rig down dresser sleeve on flow line and hang off to substructure. ND choke line, and kill line. ND bell nipple and lay down. Secure BOP with handler, and ND BOP on top of B section. RD hydraulic lines. Lift BOP stack with handler and lay down with rig manager and co man supervising operation. Install abandonment cap and NU. Test Casing to 800 psi and graph on chart (good test).
10/5/2013 09:30	10/5/2013 15:00	5.5	MOBILIZATION	RDMO	RDMO	Hang off and pin top drive to track. Rig down all electrical and air lines going to rig floor and draw works. Rig down miscellaneous equipment on substructure. Rig down pipe wrangler. Remove v-door slide. Rig down accumulator. Remove flow line and ready possum belly for new flow line. Install 30' extension on 4" mud line. Note: Crew coming in from days off working on replacing swabs, seats, valves, springs, and all gaskets on both mud pumps. Texas 21st century rig movers pushed skid to 2000hrs.
10/5/2013 15:00	10/5/2013 18:00	3	MOBILIZATION	RDMO	RDMO	Finish Cleaning OBM from mud pits. Rig cleaning inspected by rig manager and rig released @ 18:00 hrs. on 10/5/2013. Note: Final report for University 10-1 17H. Next report will be on University 10-1 18H

Report #: 24 Daily Operation: 12/5/2013 14:00 - 12/6/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
81	23	14,570.5	7,928.1	10.90	PATTERSON - UTI, 225	

Operations Summary

Skid rig over to University 10-1 #17H. NU & Test BOP Stack.

Remarks

Rig (Patterson 225) & Well Progress: 23.16 days on location, 21.2 days since rig accepted on, 20.95 days since spud.

Rig NPT: 0.0 hours for previous 24 hours. 0.0 NPT hours for Well.

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

PTB= 14,597' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 100% Corrected

Note: Rig accepted back on University 10-1 #17H on 12/05/13 @ 19:00 Hrs.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/5/2013 14:00	12/5/2013 19:00	5	MOBILIZATION	MIRU	MIRU	PJSM on walking rig with Patterson and PNR personnel present. Walk rig F/University 10-1 18H / 10-1 17H. PNR representative confirmed rig over well center (ok). Skid and center accumulator with BOP. Walk pipe wrangler and pin to V-door. Note: Rig accepted on 12/05/13 @ 19:00 Hrs.
12/5/2013 19:00	12/6/2013 00:00	5	PLAN	EQUIP	BOPS	Remove abandonment cap on University 10-1 17H. PJSM with Patterson and PNR personnel on picking up BOP stack and setting on top of multi bowl well head. Set BOP stack on top of well head and begin nipple up. NU Choke line and kill line. Lay down casing bails and elevators. Install bell nipple. Hook up accumulator lines to B.O.P Note: Checked for trapped pressure on University 10-1 17H before nipple down blind cap.
12/6/2013 00:00	12/6/2013 03:00	3	PLAN	EQUIP	BOPS	Test back to the pumps to 4,000 psi. Installed rig bails & elevators. NU flow line, and katch-kan. Secure and tighten turnbuckles.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/6/2013 03:00	12/6/2013 06:00	3	UNPLANNED	Other - Anything not listed above	U_OTR	While running joint of drill pipe with plug into BOP and setting up to continue with testing pressure line froze up. Before starting job testing operator added antifreeze to his holding tank but still froze the lines. Removed pressure line and took inside bottom dog house and turned heater on high heat to thaw-out.

Report #: 25 Daily Operation: 12/6/2013 06:00 - 12/7/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 82	Days on Location (days) 24	End Depth (ftGRD) 14,570.5	End Depth (TVD) (ftGRD) 7,928.1	Dens Last Mud (lb/gal) 10.90	Rig PATTERSON - UTI, 225	

Operations Summary

Attempt to test BOP (no success). Wait on Green's energy testing unit. Test BOP (ok). Install short wear bushing. Pick up clean out BHA. Rig service.

Remarks

Rig (Patterson 225) & Well Progress: 24.16 days on location, 22.2 days since rig accepted on, 21.95 days since spud.

Rig NPT: 8.0 hours for previous 24 hours. 8.0 NPT hours for Well.

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

PTB= 14,597' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 100% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/6/2013 06:00	12/6/2013 10:00	4	UNPLANNED	Other - Anything not listed above	U_OTR	While running joint of DP with test plug into BOP to test, pressure line was found froze up. Before starting job testing operator added antifreeze to his holding tank but still froze the lines. Due to no back up test line on truck, had to remove test line and took inside bottom dog house and turned heater on high heat to thaw-out. Ran more antifreeze through tester's holding tanks and pressure lines while thawing out test lines. Pulled out test plug to inspect while thawing line, pulled tight coming out due to large pieces of ice inside BOP. Decision made to fill BOP with OBM for testing and bleed pressure off through choke manifold instead of test unit due to short freezing periods. Pump out ice from BOP with OBM through 2" on B section of well head and function all rams while circulating BOP clean.
12/6/2013 10:00	12/6/2013 15:00	5	NU/TEST	NIPPLE UP/TST	NU/TEST	Install test plug and attempted to test BOP but could not get pressure above 600 psi with ETS testing unit. Multiplet tests were performed with no success, also attempted to re test back to pumps where a successful test was previously made and could not get test. Believed that test lines still had froze fluid which was preventing proper tests. Contacted Greene's Energy Testers and released ETS Oilfield Services.
12/6/2013 15:00	12/6/2013 19:00	4	UNPLANNED	Other - Anything not listed above	U_OTR	Waiting on Greene's Nipple up & testing crew. Note: Strap and caliper clean out bha while waiting for Greene's energy. pu 1 joint DP and circulate OBM through BOP while waiting and also filled choke with OBM and displaced out the previous testing fluid to prevent freezing
12/6/2013 19:00	12/7/2013 01:00	6	NU/TEST	NIPPLE UP/TST	NU/TEST	Test upper and lower pipe rams, blind rams, annular, HCR valve, and choke manifold to 250 psi low - 2500 psi high. Test back to the pumps to 4,000 psi. Test well control equipment on rig floor (Dart valve & TIW). Test IBOP. Testing completed with no issues and results were graphed on chart.
12/7/2013 01:00	12/7/2013 02:30	1.5	COMPL	ND, NU, Testing, Sleeve Installation, Greasing Wel	WLHEAD	Install wear bushing and secure in place with lock pins.
12/7/2013 02:30	12/7/2013 05:30	3	BHA	BHA HANDLING	BHA	Pick up BHA. P/U Bit Sub and Float, 2 6-1/2" Drill Collars, M/U Bit, P/U X-Over, Make up 5 Joints of HWDP, P/U Jars and 2 joints of HWDP.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/7/2013 05:30	12/7/2013 06:00	0.5	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Daily rig service. Clear floor of trip/slip hazards prior to TIH.

Report #: 26 Daily Operation: 12/7/2013 06:00 - 12/8/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
-------------------------------	-------------------------	----------------------

Days From Spud (days) 83	Days on Location (days) 25	End Depth (ftGRD) 14,570.5	End Depth (TVD) (ftGRD) 7,928.1	Dens Last Mud (lb/gal) 11.00	Rig PATTERSON - UTI, 225
-----------------------------	-------------------------------	-------------------------------	------------------------------------	---------------------------------	-----------------------------

Operations Summary

TIH and drill out composite plug. Conditioned mud to 11.0 ppg. TIH to TOC. Drilled out cement and 2nd composite plug. Condition mud to 11.0 ppg.

Remarks

Rig (Patterson 225) & Well Progress: 25.16 days on location, 23.2 days since rig accepted on, 22.95 days since spud.

Rig NPT: 0.0 hours for previous 24 hours. 8.0 NPT hours for Well.

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

PTB= 14,597' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 100% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/7/2013 06:00	12/7/2013 08:00	2	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH with clean out BHA F/BHA - 2,492'. Hole displacing properly into trip tank. Note: Tagged first composite plug @ 2,492' SLM.
12/7/2013 08:00	12/7/2013 09:30	1.5	CIRC	CIRCULATE	CIRC	Circulate @ 2,492' and condition OBM coming back F/10.5 - 11 ppg. 100 spm, 580 psi, 419 gpm. Full returns to surface.
12/7/2013 09:30	12/7/2013 10:00	0.5	UNPLANNED	Other - Anything not listed above	U_OTR	Drill out first composite plug F/2,492' - 2,496'. Worked through plug multiple times (clear). Note: shut off mud pumps, lined up flow into trip tank, and checked for trapped pressure (clear).
12/7/2013 10:00	12/7/2013 10:30	0.5	CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 2,500'. 100 spm, 580 psi, 419 gpm. Full returns to surface. Note: Conducted flow check into trip tank prior to continuing TIH (well static).
12/7/2013 10:30	12/7/2013 11:30	1	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH with clean out BHA F/2,492' - 4,297'. Hole displacing properly into trip tank. Note: Flow decreased on last two stands. Decided to fill pipe and circulate bottoms up.
12/7/2013 11:30	12/7/2013 12:00	0.5	CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 4,297' with 2,300 strokes @ 100 spm, 700 psi, 419 gpm. Full returns to surface.
12/7/2013 12:00	12/7/2013 14:00	2	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH with clean out BHA F/4,297' - 7,025' TOC. Hole displacing properly into trip tank. Clear debree out of flow line and 4" discharge going to trip tank after drilling out first composite plug. Continue with TIH. Note: Tagged TOC @ 7,025' SLM.
12/7/2013 14:00	12/7/2013 19:00	5	CIRC	CIRCULATE	CIRC	Circulate and condition OBM up to 11ppg @ 7,015'. 120 spm, 1550 psi, 502 gpm. Full returns to surface. Mud weight 11.1 ppg in - 11 ppg. Note: Tested casing to 2,500 psi for 10 min (good test).
12/7/2013 19:00	12/8/2013 02:30	7.5	UNPLANNED	Other - Anything not listed above	U_OTR	Drill cement F/7,025' - 7,306'. Drill out second composite bridge plug F/7,306' - 7,309'. Note: Experienced hard drilling F/7,212' - 7,215'. Adjusted parameters as needed to break through. Note: Tagged second composite plug @ 7,306'

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/8/2013 02:30	12/8/2013 06:00	3.5	CIRC	CIRCULATE	CIRC	Circulate bottoms up and condition OBM as needed to obtain 11ppg. 120 spm, 1590 psi, 502 gpm. Full returns to surface. Mud weight 11.1 ppg in - 11 ppg. Note: Conducted flow check after drilling out second composite bridge plug (Well static).

Report #: 27 Daily Operation: 12/8/2013 06:00 - 12/9/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 84	Days on Location (days) 26	End Depth (ftGRD) 14,570.5	End Depth (TVD) (ftGRD) 7,928.1	Dens Last Mud (lb/gal) 11.00	Rig PATTERSON - UTI, 225	

Operations Summary

TIH F/7,400'- 8,237', Wash and Ream F/8,237'-8,257'. Well Control Operations. Circ & Cond Hole Increase MW F/11.0- T/11.5 ppg. Wash and Ream F/8,257'- 8,558'.

Remarks

Rig (Patterson 225) & Well Progress: 26.16 days on location, 24.2 days since rig accepted on, 23.95 days since spud.

Rig NPT: 0.0 hours for previous 24 hours. 8.0 NPT hours for Well.

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

PTB= 14,597' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 100% Corrected

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/8/2013 06:00	12/8/2013 06:30	0.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH with clean out BHA F/7,400' - 8,237' on elevators. Began taking weight @ 8,237' md (approximately 85° in the hole). Note: Down drag increased from 5-10k to 30-40k. Attempted to wash and still taking 30-40k.
12/8/2013 06:30	12/8/2013 08:30	2	UNPLANNED	Well Control events & any circulating related to g	U_WC	Wash and ream F/8,237' - 8,257'. Hole taking excessive weight to wash through @ 8,257', picked up & had 50K overpull of 200K neutral weight, fell off immediately. Backed off pumps from 120 spm - 60 spm and pulled up above tight hole depth w/ 50K. Took 5 bbl gain at this time, shut pumps off to check for flow. Gained an additional 5 bbls then began to blow OBM above the rotary +/- 40' up onto top drive and derrick mast. Shut in annular from rig floor remote, bag closed slowly due to cold weather. Went down to accumulator to check pressures and closed upper pipe rams as well for safety. Opened HCR valve & recorded SICP @ 290 PSI and recorded SIDPP @ 72 PSI. Calculations w/ original MW of 11 ppg call for 11.2ppg kill mud weight. Decision to increase MW t/ 11.4ppg based of safety factor & FIT of 12.81 EMW
12/8/2013 08:30	12/8/2013 15:00	6.5	UNPLANNED	Well Control events & any circulating related to g	U_WC	Lined up through choke manifold & gas buster, began circulating kill mud schedule w/ slow pump rate of 30 spm w/ 11.4 ppg in / 10.6 ppg out. casing pressure was 90% higher than expected while circulating through 100% full open choke and seeing partial losses of 0.5 bbls/minute. Recieved +/- 35' flare while circulating through gas buster. Due to the excessive stand pipe pressure and losses, it appeared that drill string was partially packed off. Decision made to close Hydril & open pipe rams. reduce hydril psi f/ 850 psi t/ 400 psi & work string up while circulating to confirm if string was packed off. pulled 50K over neutral string weight of 200K until weight broke over. Could work string freely while circulating, but still seeing losses & excessive stand pipe pressure. Decision made to shut well back in & confirm that choke manifold had no obstructions that were restricting flow. Note: Experienced total of 188 bbl losses during these operations.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/8/2013 15:00	12/8/2013 16:30	1.5	UNPLANNED	Other - Anything not listed above	U_OTR	Removed pressure gauge from choke and tied on to it with 2" pressure line to flush out choke manifold and clear of debree that was causing pressure increase. Mathena super choke appeared to be restricted, and un-able to clear off. Lined up on manual choke and pump through, acted similar to super choke but was able to clear up after pumping 2 SPM @ 400 psi & slowly cleared out obstruction which reduced pressure to 180 psi @ 60 SPM. found debree f/ the composite retainer's coming back over the shakers that were restricting flow and causing the excessive psi increase and downhole losses. Completed flush out of Choke manifold and lined back up through gas buster. Note: Called out Mathena supervisor to come out and inspect super choke.
12/8/2013 16:30	12/8/2013 20:00	3.5	UNPLANNED	Well Control events & any circulating related to g	U_WC	Lined back up on Choke/Gas Buster and continued circulating w/ slow pump rate of 30 SPM. Casing pressure reduced f/ 371 psi prior to cleaning out composite retainer debree t/ 0 casing psi @ same pump rate. Increased SPM f/ 30 t/ 50 & continued circ 11.4 ppg in w/ 10.7 ppg coming out & slowly increased t/ 10.9 ppg over 3800 strokes. Max Background gas of 65 units during this circulation. After pumping 2 complete surface t/ surface w/ 11.4 ppg in and max of 10.9 ppg coming out, stopped and performed flow check back to trip tank for accurate monitoring. Gained 3.38 bbls over next 5 minutes started out with 15.41 bbls - 18.79 bbls, then became static over 10 minutes. Decision t/ increase MW f/ 11.4ppg and dust up t/ 11.5 ppg due to 10.9ppg MW coming back.
12/8/2013 20:00	12/8/2013 23:00	3	CIRC	CIRCULATE	CIRC	Circulate & condition OBM up t/ 11.5 ppg surface to surface w/ 80 SPM, 337 GPM, no rotation & 60' reciprocation on the flow line. Full returns to surface. Max gas of 50 units, no excessive overpull or drag while reciprocating string. Flow check after surface to surface - well static. Proceed to wash & ream.
12/8/2013 23:00	12/9/2013 06:00	7	W&R	WASH & REAM	WASH_R EAM	Wash and ream F/8,257'- 8,558' @ avg ROP 43' Hr. 80 SPM, 30 RPM, 3-4K Torque, 337 GPM, SPP 940, WOB 5-10K, Note: Tight spot @ 8,265'. Pulled 50K overpull of 200K neutral weight. Broke over and lowered parameters to 10' hr.

Report #: 28 Daily Operation: 12/9/2013 06:00 - 12/10/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
85	27	14,570.5	7,928.1	11.50	PATTERSON - UTI, 225	

Operations Summary

W&R F/8,558'-8,653'. Perform clean up cycle @ 8,653'. W&R F/8,653'- 8,943'. Rig service. W&R F/8,943'- 9,465'.

Remarks

Rig (Patterson 225) & Well Progress: 27.16 days on location, 25.2 days since rig accepted on, 24.95 days since spud.

Rig NPT: 0.0 hours for previous 24 hours. 8.0 NPT hours for Well.

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

PTB= 14,597' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 100% Corrected

BOP drill @ 1000hrs, rig hands responded in a timely manner.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/9/2013 06:00	12/9/2013 07:00	1	W&R	WASH & REAM	WASH_R EAM	W&R F/8,558' - 8,653'. Began seeing larger cuttings coming back accross the shakers approx 1" in size. Increased parameters from 30 top drive rpm to 100 top drive rpm / 80 spm - 100 spm/ 1,400 psi / 3.5 - 4.5 trq.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/9/2013 07:00	12/9/2013 08:30	1.5	CIRC	CIRCULATE	CIRC	Circulate total of two bottoms up, 8,800 strokes @ 100 spm / 419 gpm / 1,400 psi / 4 - 6 trq. Note: Fine cuttings coming back accross shakers at end of circulation.
12/9/2013 08:30	12/9/2013 17:00	8.5	W&R	WASH & REAM	WASH_REAM	W&R F/8,653' - 8,943'. 100 top drive rpm / 100 spm / 1,400 psi / 4 - 7 trq. Tight F/8,752' - 8,760' / 8,860' - 8,864'. BOP drill @ 1000hrs, rig hands responded in a timely manner. Note: W&R monitoring pressure, torque, and flow closely to identify tight hole. Torque limit on top drive is set @ 10k ft/lbs max, Auto drill is set @ 6,000k ft/lbs max. Adjusting top drive rpm's, rop, and weight on bit as the hole dictates. Having to slow down reaming as much as 10'/hr at times to get through tight spots, and up to 200'/hr once through. When going through these trouble spots the string acts as if cork screwing, torque starts coming up and starts packing off. Breaking free at neutral weight of 200k when picking up out of tight hole and flow coming back to normal.
12/9/2013 17:00	12/9/2013 17:30	0.5	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Daily rig service. Grease blocks, top drive, and crown. check fluid levels. Note: Check SPR's at 8,943' md. Pump #1 30- 394 psi 40- 465 psi 50- 562 psi Pump #2 30- 394 psi 40- 463 psi 50- 558 psi
12/9/2013 17:30	12/10/2013 06:00	12.5	W&R	WASH & REAM	WASH_REAM	W&R F/8,943' - 9,465'. Avg rop 41' / 100 top drive rpm / 100 spm / 1,480 psi / 4 - 7 trq / 5-10K wob / 419 gpm. Note: W&R @ 9,282' attempted to pack off. Worked pipe up above tight spot pulling 55k over string weight of 200k to break over. Decision was made to rack one stand back, pump 30 bbl sweep and circulate 1 bottoms up above tight spot. Got full returns back. Reamed back through tight spot @ 40 fph, tight hole cleared up. Sweep returned 1" - 1.5" cuttings covering 40% of two shakers. Continued W&R to 9,465'. Have not experienced mud cut, maintaining 11.5 - 11.6 MW through full circulation.

Report #: 29 Daily Operation: 12/10/2013 06:00 - 12/11/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
-------------------------------	-------------------------	----------------------

Days From Spud (days) 86	Days on Location (days) 28	End Depth (ftGRD) 14,570.5	End Depth (TVD) (ftGRD) 7,928.1	Dens Last Mud (lb/gal) 11.60	Rig PATTERSON - UTI, 225
-----------------------------	-------------------------------	-------------------------------	------------------------------------	---------------------------------	-----------------------------

Operations Summary

Circ B/U, W&R F/9,440'-9,502'. Circ and Condition Hole. W&R F/9,502'- 9,886'. Circ and Condition Hole. W&R F/9,886'- 10,065'. Circ and Condition Hole. W&R F/10,065'- 10,100'.

Remarks

Rig (Patterson 225) & Well Progress: 28.16 days on location, 26.2 days since rig accepted on, 25.95 days since spud.

Rig NPT: 0.0 hours for previous 24 hours. 8.0 NPT hours for Well.

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

PTB= 14,597' MD, 92.0° Inc, 359.5° Azm. 5' High, 26' Right Plan #2

Cenergy Inspection Report: 100% Corrected

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/10/2013 06:00	12/10/2013 07:00	1	CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 9,440' due to hole packing off. Pumped weighed sweep and circulated out. 100 spm / 418 gpm / 1500 psi / 3,900 trq.
12/10/2013 07:00	12/10/2013 12:00	5	W&R	WASH & REAM	WASH_R EAM	W&R F/9,440' - 9,450'. Packed off. Work free, lost 30' of hole. Raise parameters to 130 spm / 545 gpm / 2,200 psi / 100 rpm / 3 - 5 trq. Continue to W&R F/9,430' - 9,502'. Note: Lost 8 bbls down hole when trying to get free and did not get them back after full circulation was established.
12/10/2013 12:00	12/10/2013 14:00	2	CIRC	CIRCULATE	CIRC	Circulate & reciprocate full stand while building 20 bbl diesel fuel only pill. Pump diesel pill and circulate surface to surface 6,500 strokes @ 130 spm / 2,100 psi / 545 gpm / 100 rpm / 3,500 trq. Note: Seen 2 - 3" cuttings mixed in fine to medium cuttings coming back after diesel pill came back across the shakers.
12/10/2013 14:00	12/10/2013 18:00	4	W&R	WASH & REAM	WASH_R EAM	W&R F/9,502' - 9,696'. 130 spm / 545 gpm / 2,050 psi / 100 rpm / 3 - 5 trq. Note: Pumping weighted sweeps to help with hole cleaning. Began seeing large cuttings coming back over shakers approx 2 - 3" in size.
12/10/2013 18:00	12/10/2013 21:00	3	W&R	WASH & REAM	WASH_R EAM	W&R F/9,696'-9,886'. 156 spm / 654 gpm / 2,750 psi / 100 rpm / 3 - 5 trq Note: Increased gpm's T/650- F/ 545 to compare cutting returns. Pumped 2 -15bbl weighted sweeps one per stand. 1st sweep returned fine grounds with about 25% dime size flat cuttings. 2nd sweep returned medium size cuttings 1/2"- 1" in size.
12/10/2013 21:00	12/10/2013 22:00	1	CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 9,886', 156 spm/ 653 gpm/ 2,780 psi/ 3,450 trq Note: Pumped 1-20bbl weighted sweep. Fine cuttings coming back across shakers at end of circulation.
12/10/2013 22:00	12/11/2013 01:00	3	W&R	WASH & REAM	WASH_R EAM	W&R F/9,886'- 10,065. 120 spm / 500 gpm / 1,980 psi / 100 rpm / 3 - 5 trq. Packed off @ 10,052. Worked free, backreamed stand and pumped 20 bbl sweep. Note: Decreased gpm's T/500- F/ 650 to compare cutting returns. Fine cuttings coming back across shakers.
12/11/2013 01:00	12/11/2013 02:00	1	CIRC	CIRCULATE	CIRC	Circulate surface to surface 6800 strokes Raise parameters to 130 spm/ 2150 psi/ 545 gpm/ 100 rpm/ 4000 trq. Note: Fine cuttings coming back across shakers
12/11/2013 02:00	12/11/2013 06:00	4	W&R	WASH & REAM	WASH_R EAM	W&R F/10,030'-10,100'. Lost 35' of hole after pack off. Parameters set @ 120 spm / 502 gpm / 1,900 psi / 100 rpm / 3 - 5 trq. Note: 660' total footage W&R in last 24 hrs.

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

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 87	Days on Location (days) 29	End Depth (ftGRD) 14,570.5	End Depth (TVD) (ftGRD) 7,928.1	Dens Last Mud (lb/gal) 11.50	Rig PATTERSON - UTI, 225	
Operations Summary W/R F/10,067' -10,109', Circ & Conditin Hole, TOH F/ 9,900' - 9,500'. Spot heavy pill. TOH F/9,500' - 8,929'. Spot high vis sweep. TOH F/8,929' - 7,485'. CBU. TOH F/7,484' - BHA. L/D HWDP						
Remarks Rig (Patterson 225) & Well Progress: 29.16 days on location, 27.2 days since rig accepted on, 26.95 days since spud. Rig NPT: 0.0 hours for previous 24 hours. 8.0 NPT hours for Well. Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 00%						

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/11/2013 06:00	12/11/2013 09:30	3.5	W&R	WASH & REAM	WASH_REAM	Packed off @ 10,099'. Work free and regain full returns. Lost 32' while working free. Continue to W&R F/10,067' - 10,109'. 100 spm, 2,800 psi, 652 gpm, 100 rpm, 4-5 trq. Taking 3-5k wob, backed off rate of penetration to 25 ft/hr to avoid packing off. Note: Observed large cuttings coming back across shakers when weighted sweep that was pumped after pack-off came back around. Cuttings size was 1.5 - 3".
12/11/2013 09:30	12/11/2013 12:30	3	CIRC	CIRCULATE	CIRC	Packed off @ 10,109'. Work free and regain full returns. Pulled up 50' to 10,059' working tight hole, pulled up 60k over string weight of 200k. Regained returns but still trying to pack off. Decision to rack back two stands was made, back ream two stands F/10,059' - 9,886' and build 2 weighted sweeps. Circulated @ 156 spm, 652 gpm, 2,700 psi, 100 rpm, 3 - 4k trq.
12/11/2013 12:30	12/11/2013 15:30	3	CIRC	CIRCULATE	CIRC	Circulate & reciprocate full stand. Pump two weighted sweeps, and continued to circulate until shakers were clean. Circulated @ 156 spm, 652 gpm, 2,700 psi, 100 rpm, 3 - 4k trq. First weighted sweep brought back 1 - 3" size mixed in with fine cuttings, and covered 3/4 of the two shakers being used. Second weighted sweep brought back mostly fine cuttings, large cuttings were seen but minimal amount. Continued to circulate until hole was clean. Rig up air operated mud bucket, and finish building slug. Note: Check SPR's at 9,900' md. Pump #1 30- 192 psi 40- 270 psi 50- 355 psi Pump #2 30- 190 psi 40- 252 psi 50- 341 psi
12/11/2013 15:30	12/11/2013 17:30	2	TRIP OUT HOLE	TOOH	TOOH	PJSM on TOH with wet pipe. Finish rigging up air operated mud bucket. TOH f/9,900' - 9,500' hole taking proper fill out of trip tank. Set max drag @ 20k and hoist speed @ 40'/hr. Note: Max drag seen 10k.
12/11/2013 17:30	12/11/2013 18:00	0.5	CIRC	CIRCULATE	CIRC	Decision made to Build 40 bbl 13.5 heavy pill and spot f/ 9,500' - 8929' md that would stretch across 571' of open hole for a well control mud cap after abandoning well bore for open hole sidetrack. Pump heavy pill with 1,663 strokes @ 150 spm, 2,300 psi, 100 rpm, 3,500 trq. Full returns to surface.
12/11/2013 18:00	12/11/2013 18:30	0.5	TRIP OUT HOLE	TOOH	TOOH	TOH on elevators F/9,500' - 8,929'. Hole taking proper fill out of trip tank. Set max drag @ 20k and hoist speed @ 40'/hr. Max drag seen 5 - 10k.
12/11/2013 18:30	12/11/2013 20:00	1.5	CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 8,929' md. 130 spm, 545 gpm, 1,900 psi, 100 rpm, 3,200 torque. Build 40 bbl high vis sweep mixed with 15 ppb cedar fiber to spot on top of weighted pill for a marker in case that after open hole side track & lateral #2 is complete - we could see cedar fiber at shakers when running casing for indicator that csg string was in old well bore.
12/11/2013 20:00	12/11/2013 23:30	3.5	TRIP OUT HOLE	TOOH	TOOH	TOH on elevators F/8,929' - 8,945'. Pulled into tight spot, worked pipe pulling 50K over 210k string weight. Could not get to break over so screwed into stand and used pumps @ 140 spm, 50 rpm and worked through tight spot. Continued parameters F/8,945' - 7,895'. TOH on elevators F/7,895' - 7,484'. Hole taking proper fill out of trip tank

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/11/2013 23:30	12/12/2013 00:30	1	CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 7,484' md. 120 spm, 502 gpm, 1550 psi. Pump slug.
12/12/2013 00:30	12/12/2013 05:30	5	TRIP OUT HOLE	TOOH	TOOH	TOH on elevators F/7,484' - BHA. Hole taking proper fill out of trip tank.
12/12/2013 05:30	12/12/2013 06:00	0.5	BHA	BHA HANDLING	BHA	Lay down 7 joints of HWDP.

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

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
88	30	8,623.5	7,919.1	11.70	PATTERSON - UTI, 225	

Operations Summary

L/D BHA, P/U Directional BHA, Rig Service, TIH F/BHA- 7,519', Wash F/7,519'- 8,018', Rotate/Slide Drill 8-1/2" Production Section F/8,018'- 8,643'

Remarks

Rig (Patterson 225) & Well Progress: 30.16 days on location, 28.2 days since rig accepted on, 27.95 days since spud.

Rig NPT: 0.0 hours for previous 24 hours. 8.0 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 1%

Note: Landed Curve @ 8,526' MD

PTB= 8,643' MD, 90.8° Inc, 347.9° Azm. 11' High, 43' Left Plan #5

Note: 181' straight line projection from lateral #1

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/12/2013 06:00	12/12/2013 08:00	2	BHA	BHA HANDLING	BHA	L/D 7 joints of HWDP, jars, 2 - 6-1/2" D.C., float sub, bit sub, and break bit
12/12/2013 08:00	12/12/2013 09:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Pull wear bushing, P/U wash pipe and wash out well head , and reinstall wear bushing.
12/12/2013 09:00	12/12/2013 10:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Level rig with walking package.
12/12/2013 10:00	12/12/2013 12:00	2	BHA	BHA HANDLING	BHA	P/U 6-3/4" Integrity Mud Motor 4/5 7.0 stage fixed @ 2.0° (0.50 rpg), make up UBHO sub. Scribe motor to top of UBHO sub, and orientate muleshoe sleeve. M/U NMDC's, install MWD tool, and perform surface test (test good), M/U 8-1/2" Halliburton MMD55 PDC bit with 2.597 TFA.
12/12/2013 12:00	12/12/2013 13:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig, & Top Drive, grease crown
12/12/2013 13:00	12/12/2013 19:00	6	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/ BHA - 7,519', filling pipe every 30 stand, hole displacing properly.
12/12/2013 19:00	12/12/2013 19:30	0.5	W&R	WASH & REAM	WASH_R EAM	Wash F/7,519' - 8,018'. 120 spm, 2,500 psi, trq 2-3k, 504 gpm
12/12/2013 19:30	12/12/2013 20:00	0.5	UNPLANNED	Other - Anything not listed above	U_OTR	Align TF @ 160 Left GTF and work 30' trough until no reactive torque was observed while working pipe.
12/12/2013 20:00	12/12/2013 21:00	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE CURVE	DRL CURVE-SLIDE	Slide Drill 8-1/2" Production Side Track 12' @ 12'/Hr, 140 spm, 587 gpm, 3,050 spp, 300-400 psi diff, 294 motor rpm, 160 Left GTF 15k-20k Wob. Note: After 8' of slide, began to ease weight to bit. Holding good weight on bit, differential, and getting good reactive torque. Confirmed successful side track @ 8,084' MD after seeing 2° drop in inclination in comparison to original curve surveys.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/12/2013 21:00	12/12/2013 22:00	1	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate Drill 8-1/2" Production 54' @ 54'/Hr, 140 spm, 587 gpm, 3,600 spp, 600-700 diff psi, 50 top drive rpm, 294 motor rpm, 344 total bit rpm, 15-20k wob, 6-8k ft/lbs trq. MSE 7-10 ksi. Note: Mud Logger (Shuttles) showed up on location to log lateral as per geology request.
12/12/2013 22:00	12/12/2013 22:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide Drill 8-1/2" 45' @ 45'/Hr, @ 40L GTF
12/12/2013 22:30	12/12/2013 23:00	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate Drill 8-1/2" Production Side Track 16' @ 32'/Hr. MSE 7-10 ksi
12/12/2013 23:00	12/13/2013 00:00	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide Drill 8-1/2" 40' @ 40'/Hr, @ 10L GTF
12/13/2013 00:00	12/13/2013 00:30	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate Drill 8-1/2" 55' @ 110'/Hr. MSE 7-10 ksi
12/13/2013 00:30	12/13/2013 01:30	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide Drill 8-1/2" 60' @ 60'/Hr, @ 0 GTF
12/13/2013 01:30	12/13/2013 02:00	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate Drill 8-1/2" 35' @ 70'/Hr. MSE 7-10 ksi
12/13/2013 02:00	12/13/2013 02:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide Drill 8-1/2" 45' @ 90'/Hr, @ 20 Right GTF
12/13/2013 02:30	12/13/2013 03:00	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate Drill 8-1/2" 50' @ 100'/Hr. MSE 7-10 ksi
12/13/2013 03:00	12/13/2013 04:00	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide Drill 8-1/2" 30' @ 30'/Hr, @ 80 Right GTF
12/13/2013 04:00	12/13/2013 04:30	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate Drill 8-1/2" 64' @ 128'/Hr. MSE 7-10 ksi. Note: Curve landed @ 8,526 MD. Survey Depth 8,479', 90.60° Inc, 346.7 Azm.
12/13/2013 04:30	12/13/2013 05:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Slide Drill 8-1/2" 14' @ 28'/Hr, @ 110 Right GTF
12/13/2013 05:00	12/13/2013 05:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" 81' @ 162'/Hr. MSE 7-10 ksi
12/13/2013 05:30	12/13/2013 06:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" 24' @ 48'/Hr, @ 130 Right GTF

Report #: 32 Daily Operation: 12/13/2013 06:00 - 12/14/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 89	Days on Location (days) 31	End Depth (ftGRD) 11,091.5	End Depth (TVD) (ftGRD) 7,933.8	Dens Last Mud (lb/gal) 11.50	Rig PATTERSON - UTI, 225	

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/8,643'- 9,759', Rig Service, Rotate/Slide Drill 8-1/2" Production Section F/9,759'- 10,517', Circulate, Rotate/Slide Drill 8-1/2" Production Section F/10,517' - 11,118'.

Remarks

Rig (Patterson 225) & Well Progress: 31.16 days on location, 29.2 days since rig accepted on, 28.95 days since spud.

Rig NPT: 0.0 hours for previous 24 hours. 8.0 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 26%

PTB= 11,118' MD, 88.5° Inc, 2.5° Azm. 4' High, 10' Left Plan #5

Note: 360' straight line projection from original lateral #1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/13/2013 06:00	12/13/2013 06:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 73' @ 146'/Hr, 140 spm, 587 gpm, 3,650 spp, 600-800 diff psi, 100 top drive rpm, 294 motor rpm, 394 total bit rpm, 20-25k wob, 8k-12k ft/lbs trq. MSE 8-12 ksi.
12/13/2013 06:30	12/13/2013 07:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 30' @ 60'/Hr, 140 spm, 587 gpm, 3,115 spp, 200-250 psi diff, 294 total bit rpm, 80R GTF, 20k-25k Wob.
12/13/2013 07:00	12/13/2013 07:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 65' @ 130'/Hr, MSE 5-10 ksi.
12/13/2013 07:30	12/13/2013 08:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 30' @ 60'/Hr, @ 90R GTF Rotate Drill 8-1/2" Production Section 65' @ 130'/Hr, MSE 5-10 ksi.
12/13/2013 08:00	12/13/2013 10:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 349' @ 140'/Hr, MSE 5-10 ksi.
12/13/2013 10:30	12/13/2013 11:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 30' @ 60'/Hr, @ 150R GTF
12/13/2013 11:00	12/13/2013 13:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 359' @ 144'/Hr, MSE 5-10 ksi.
12/13/2013 13:30	12/13/2013 14:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 30' @ 30'/Hr, @ 90R GTF
12/13/2013 14:30	12/13/2013 15:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 65' @ 130'/Hr, MSE 5-10 ksi.
12/13/2013 15:00	12/13/2013 15:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr, @ 90R GTF
12/13/2013 15:30	12/13/2013 16:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 75' @ 150'/Hr, MSE 5-10 ksi.
12/13/2013 16:00	12/13/2013 17:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig and Top Drive
12/13/2013 17:00	12/13/2013 18:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 284' @ 189'/Hr, MSE 8-12 ksi.
12/13/2013 18:30	12/13/2013 19:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 20'/Hr, @ 150L GTF
12/13/2013 19:30	12/13/2013 22:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 454' @ 182'/Hr, MSE 5-10 ksi.
12/13/2013 22:00	12/13/2013 23:00	1	CIRC	CIRCULATE	CIRC	BOS grinder locked up and tripped breaker. P/U and circulated at 70 spm, 85 rpm working 1 std. Called BOS tech. While working on grinder found 1 bolt and washer in grinder, along with one lodged at bottom of grinder blades. Rigged shaker slides to by pass grinder to open top to continue drilling.
12/13/2013 23:00	12/14/2013 01:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 190' @ 95'/Hr, MSE 10-15 ksi.
12/14/2013 01:00	12/14/2013 02:00	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 10'/Hr, @ 160R GTF
12/14/2013 02:00	12/14/2013 02:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 85' @ 170'/Hr, MSE 10-15 ksi.
12/14/2013 02:30	12/14/2013 03:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 25' @ 25'/Hr, @ 150R GTF
12/14/2013 03:30	12/14/2013 06:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 291' @ 116'/Hr, MSE 10-15ksi.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 33 Daily Operation: 12/14/2013 06:00 - 12/15/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
90	32	12,408.5	7,927.5	11.00	PATTERSON - UTI, 225		

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/11,118'- 11,276', Circ/Remove toe board, Rotate/Slide Drill 8-1/2" Production Section F/11,276'- 11,556', Safety Stand down, Rig Service, Rotate/Slide Drill 8-1/2" Production Section F/11,556' - 11,750', Circ/Re Install Toe Board, Rotate/Slide Drill 8-1/2" Production Section F/11,750' - 12,435'.

Remarks

Rig (Patterson 225) & Well Progress: 32.16 days on location, 30.2 days since rig accepted on, 29.95 days since spud.

Rig NPT: 2.5 hours for previous 24 hours. 10.5 NPT hours for Well.

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

PTB= 12,435' MD, 91.5° Inc, 4.8° Azm. 7' High, 11' Right Plan #5

Note: 252' straight line projection from original lateral #1

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/14/2013 06:00	12/14/2013 08:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 158' @ 79'/Hr, 136 spm, 570 gpm, 3,800-3950 spp, 600-800 diff psi, 100-120 top drive rpm, 285 motor rpm, 385-405 total bit rpm, 20-25k wob, 8k-12k ft/lbs trq. MSE 15-20 ksi. Note: While making a connection drilling out of derrick, driller hit toe board with elevators, bending toe board towards off drillers side not allowing pipe to move freely through alleyway.
12/14/2013 08:00	12/14/2013 09:30	1.5	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Inspected damage to toe board and found bracket on driller side bent off of the holding pin (other side still secured by holding pin). Decision made to completely remove toe board from holding pin and place on diving board tied off with rope and secured with safety chains. Stopped drilling and circulated to ensure no personnel would be working under defective suspended load. Welder arrived @ 08:45 hrs, had safety meeting with welder and crew, and welder cut safety chains and removed toe board from service.
12/14/2013 09:30	12/14/2013 10:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 20'/Hr, @ 70R GTF, 136 spm, 570 gpm, 20k-25k Wob, 3,500-3600 spp, 200-250 psi diff, 285 total bit rpm, 285 total motor rpm.
12/14/2013 10:30	12/14/2013 12:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 264' @ 176'/Hr, MSE 15-20 ksi.
12/14/2013 12:00	12/14/2013 12:30	0.5	SAFETY	PRE-JOB SAFETY MEETING	SAFETY	Performed safety stand down discussed incident and re-focusing on job.
12/14/2013 12:30	12/14/2013 13:30	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig and Top Drive
12/14/2013 13:30	12/14/2013 15:30	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 10'/Hr, @ 180 GTF
12/14/2013 15:30	12/14/2013 16:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 75' @ 75'/Hr, MSE 15-20 ksi.
12/14/2013 16:30	12/14/2013 17:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 40' @ 40'/Hr, @ 180 GTF
12/14/2013 17:30	12/14/2013 18:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 55' @ 110'/Hr, MSE 20-25 ksi.
12/14/2013 18:00	12/14/2013 19:00	1	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Reinstall repaired toe board to derrick. Circulate during repair @ 50 rpm, 136 spm, 570 gpm.
12/14/2013 19:00	12/14/2013 20:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 94' @ 63'/Hr, MSE 20-25 ksi.
12/14/2013 20:30	12/14/2013 21:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 20'/Hr, @ 150L GTF
12/14/2013 21:30	12/15/2013 02:00	4.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 454' @ 101'/Hr, MSE 30-35 ksi.
12/15/2013 02:00	12/15/2013 03:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 12' @ 8'/Hr, @ 160L GTF

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/15/2013 03:30	12/15/2013 04:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 85' @ 85'/Hr, MSE 30-35 ksi.
12/15/2013 04:30	12/15/2013 06:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13'/Hr, @ 180 GTF

Report #: 34 Daily Operation: 12/15/2013 06:00 - 12/16/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 91	Days on Location (days) 33	End Depth (ftGRD) 13,936.5	End Depth (TVD) (ftGRD) 7,929.3	Dens Last Mud (lb/gal) 11.00	Rig PATTERSON - UTI, 225	

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/12,435'- 13,076', Rig Service, Rotate/Slide Drill 8-1/2" Production Section F/13,076' - 13,963'.

Remarks

Rig (Patterson 225) & Well Progress: 33.16 days on location, 31.2 days since rig accepted on, 30.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 56%

PTB= 13,963' MD, 90.4° Inc, 2.2° Azm. 10' High, 18' Right Plan #5

Note: 175' straight line projection from original lateral #1

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/15/2013 06:00	12/15/2013 08:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 167' @ 83'/Hr, 132 spm, 553 gpm, 3,800-3950 spp, 600-700 diff psi, 100-120 top drive rpm, 277 motor rpm, 377-396 total bit rpm, 15-20k wob, 10k-14k ft/lbs trq. MSE 15-20 ksi.
12/15/2013 08:00	12/15/2013 09:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13'/Hr, @ 150L GTF, 132 spm, 553 gpm, 20k-25k Wob, 3,500-3600 spp, 200-250 psi diff, 277 total bit rpm's.
12/15/2013 09:30	12/15/2013 14:00	4.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 359' @ 80'/Hr, MSE 15-20 ksi.
12/15/2013 14:00	12/15/2013 15:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13'/Hr, @ 150L GTF
12/15/2013 15:30	12/15/2013 16:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 75' @ 150'/Hr, MSE 15-20 ksi.
12/15/2013 16:00	12/15/2013 17:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig & Top Drive
12/15/2013 17:00	12/15/2013 18:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 105' @ 70'/Hr, MSE 15-20 ksi.
12/15/2013 18:30	12/15/2013 19:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 25' @ 25'/Hr, @ 150L GTF
12/15/2013 19:30	12/15/2013 23:30	4	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 448' @ 112'/Hr, MSE 20-25 ksi.
12/15/2013 23:30	12/16/2013 00:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 20'/Hr, @ 180 GTF
12/16/2013 00:30	12/16/2013 02:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 170' @ 85'/Hr, MSE 20-25 ksi.
12/16/2013 02:30	12/16/2013 03:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 20'/Hr, @ 180 GTF
12/16/2013 03:30	12/16/2013 04:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 74' @ 74'/Hr, MSE 20-25 ksi.
12/16/2013 04:30	12/16/2013 06:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 25' @ 17'/Hr, @ 180 GTF

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 35 Daily Operation: 12/16/2013 06:00 - 12/17/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
92	34	14,376.5	7,932.3	11.10	PATTERSON - UTI, 225	

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/13,963'- 14,403', CTCH, Rig Service, TOH F/14,403'- 8,621', Circ B/U, TOH F/8,621'- 7,498', Pump Slug, TOH F/7,498'- BHA, L/D BHA

Remarks

Rig (Patterson 225) & Well Progress: 34.16 days on location, 32.2 days since rig accepted on, 31.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

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

PTB= 14,403' MD, 90.6° Inc, 1.6° Azm. 5' High, 10' Right Plan #5

Note: 174' straight line projection from original lateral #1

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/16/2013 06:00	12/16/2013 09:00	3	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 355' @ 118'/Hr, 114 spm, 478 gpm, 3,950-4,050 spp, 600-700 diff psi, 100-120 top drive rpm, 239 motor rpm, 339-359 total bit rpm, 15-20k wob, 10k-14k ft/lbs trq. MSE 20-35 ksi.
12/16/2013 09:00	12/16/2013 11:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 41' @ 16'/Hr, @ 180 GTF, 120-130 spm, 503-545 gpm, 20k-25k Wob, 3,900-4,150 spp, 100-150 psi diff, 252-273 total bit rpm's. Note: Having trouble sliding, P/U & rotated 10' F/ 14,323' - 14,333'.
12/16/2013 11:30	12/16/2013 12:30	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 44' @ 44'/Hr, MSE 15-20 ksi. Note: After slide gained 500 psi of off bottom pressure F/ 3,300 - 3,800 spp @ 114 gpm
12/16/2013 12:30	12/16/2013 15:30	3	CIRC	CIRCULATE	CIRC	Perform clean up cycle. Pump 2 - 20 bbl weighted sweeps (13 ppg, 2 ppg over 11.0 MW) 15 min apart, 114 -120 spm, 478-503 gpm, 3,750-4,150 spp, 120 top drive rpm, 239-252 motor rpm, 359-372 total bit rpm. During clean up cycle off bottom torque reduced from 7,500 - 5,500 ft/lbs. Note: During clean up cycle no reduction in SSP. Decision made to circulate 3 bottoms up & TOH.
12/16/2013 15:30	12/16/2013 16:30	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig & Top Drive
12/16/2013 16:30	12/16/2013 22:00	5.5	TRIP OUT HOLE	TOOH	TOOH	TOH on elevators F/14,403' - 8,621'. Hole taking proper fill out of trip tank. Note: No excessive over pull seen.
12/16/2013 22:00	12/16/2013 23:00	1	CIRC	CIRCULATE	CIRC	Circulate surface to surface at bottom of curve working one stand @ 140 spm / 90 rpm/ 587 gpm / 3,750 psi / 3,400 trq.
12/16/2013 23:00	12/17/2013 04:30	5.5	TRIP OUT HOLE	TOOH	TOOH	TOH on elevators F/8,621-7,498' "Casing Shoe" Pump slug, TOH on elevators F/7,498'- BHA. Hole taking proper fill out of trip tank.
12/17/2013 04:30	12/17/2013 06:00	1.5	BHA	BHA HANDLING	BHA	Stand back double and flex monel in derrick, retrieve MWD tool & L/D same, come up to drain motor and break bit discovered that bit, bit box and 1.9' of mandrill missing in hole.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 36 Daily Operation: 12/17/2013 06:00 - 12/18/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 028096	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
93	35	14,376.5	7,932.3	11.10	PATTERSON - UTI, 225			

Operations Summary

Slip/Cut DL, Rig Service, Pull & Install Wear Bushing, P/U Motor, M/U Bit, TIH F/BHA- 7,961', Orient into side track, TIH F/7,961'- 8,639', Tagged mandrill/ bit box left in hole, Rack 1 std back, Circ B/U, TOH/8,590'- BHA, L/D BHA

Remarks

Rig (Patterson 225) & Well Progress: 35.16 days on location, 31.2 days since rig accepted on, 32.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

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

PTB= 14,403' MD, 90.6° Inc, 1.6° Azm. 5' High, 10' Right Plan #5

Note: 174' straight line projection from original lateral #1

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/17/2013 06:00	12/17/2013 10:00	4	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Slip & cut drilling line. Had to slip 1,500' of drilling line to replace spool.
12/17/2013 10:00	12/17/2013 11:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig & Top Drive
12/17/2013 11:00	12/17/2013 12:30	1.5	WLHEAD	WELLHEAD	WLHEAD	Pull & inspect Wear Bushing. P/U wash pipe and wash wellhead, 100 spm, 419 gpm, 10 rpm. Note: Wear Bushing had slight wear on v-door side of bushing. Decision made to rotate bushing and re-install
12/17/2013 12:30	12/17/2013 13:30	1	BHA	BHA HANDLING	BHA	P/U Integrity Mud Motor 4/5 7.0 stage fixed @ 2° 0.50 rpg, Scribe motor, orientate muleshoe sleeve, install MWD tool, Make up NMDC's, and perform surface test (good).
12/17/2013 13:30	12/17/2013 19:30	6	TRIP IN HOLE	TRIP IN HOLE	TIH	M/U 8-1/2" Halliburton MMD55M PDC with 1.855 TFA. & TIH F/ BHA - 7,961', filling pipe every 30 stds.
12/17/2013 19:30	12/17/2013 21:00	1.5	TRIP IN HOLE	TRIP IN HOLE	TIH	Filled pipe @ 7,961' oriented tool face @ 160L to enter side track. 1st attempt unsuccessful, 2nd attempt successful and confirmed by survey. Note: After 1st attempt washed and reamed through opening of side track to open up entry.
12/17/2013 21:00	12/17/2013 23:00	2	TRIP IN HOLE	TRIP IN HOLE	TIH	Continue to TIH on elevators F/7,961' - 8,639'. Tagged mandrill and bit box left in hole. Slacked off 30K. Contacted Jess Arnold. Decision made to slack off slowly to total of 80K. Decision made to trip out of hole to fish.
12/17/2013 23:00	12/18/2013 00:00	1	CIRC	CIRCULATE	CIRC	Rack back one stand into derrick, circulate bottoms up @ 3,100 spp, 400 trq, 140 spm, 587 gpm, 10 rpm, build slug
12/18/2013 00:00	12/18/2013 05:00	5	TRIP OUT HOLE	TOOH	TOOH	Pump slug, TOH on elevators F/ 8,590' - BHA. Hole taking proper fill out of trip tank.
12/18/2013 05:00	12/18/2013 06:00	1	BHA	BHA HANDLING	BHA	L/D Flex joint, retrieve MWD tool & L/D, Drain Motor

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 37 Daily Operation: 12/18/2013 06:00 - 12/19/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 028096
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
94	36	14,376.5	7,932.3	10.80	PATTERSON - UTI, 225		

Operations Summary

L/D BHA, P/U Fishing Assy, TIH F/BHA-8,639', Tagged fish, TIH F/8,639' - 9,642', TOH F/9,642' - BHA, L/D Fishing Assy.

Remarks

Rig (Patterson 225) & Well Progress: 36.16 days on location, 32.2 days since rig accepted on, 33.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

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

PTB= 14,403' MD, 90.6° Inc, 1.6° Azm. 5' High, 10' Right Plan #5

Note: 174' straight line projection from original lateral #1

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/18/2013 06:00	12/18/2013 06:30	0.5	BHA	BHA HANDLING	BHA	Break bit & L/D NMDC & Mtr.
12/18/2013 06:30	12/18/2013 09:30	3	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	P/U Fishing Assy - Cut lip Guide, Grappel w/ Mill Control, Top Sub, Lubricated Bumper Sub, XO, Float Sub, XO Note: Jars set in string to not exceed 30° in curve on bottom- 72 stds behind BHA
12/18/2013 09:30	12/18/2013 13:30	4	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	TIH on elevators F/BHA- 8,018' (Side track depth), filling pipe every 30 stands, hole displacing properly.
12/18/2013 13:30	12/18/2013 16:30	3	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	TIH on elevators F/8,018' - 8,639 Tag fish. Confirmed tag fish 100 spm, setting 12K on fish, rotating 2 revolutions, pressure increase F/ 1,130 - 1,160 spp and pressure did not bleed off. Cont to TIH pushing fish down hole. Note: Worked fishing assy through dog legs stacking 20-30K and rotating pipe @ 10 rpm, correlating with previous slides. Appeared to be in side track due to no big cuttings, increase in MW/Vis, or cedar fiber seen.
12/18/2013 16:30	12/18/2013 21:00	4.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	TIH F/8,639'- 9,642', hit tight spot at 9,197' stacked 60K to break through, fill pipe every 30 stands, hole displacing properly. Note: At 9,642' could not push fish any further. Decsion made to TOH and see if fish had been secured.
12/18/2013 21:00	12/19/2013 04:30	7.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	TOH on elevators F/9,642'- BHA. Hole taking proper fill out of trip tanks. Note: Tight spots encountered @ 9,149' w/ max over pull 50K, @ 8,354' w/ max over pull 64K, @ 8,127' w/ max over pull 60K.
12/19/2013 04:30	12/19/2013 06:00	1.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Break and L/D Fishing Assy, Grappel w/ Mill Control, Top Sub, Lubricated Bumper Sub, XO, Float Sub, XO. Note: Cut lip Guide backed off and left down hole along w/mandrill, bit box, and bit

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 38 Daily Operation: 12/19/2013 06:00 - 12/20/2013 06:00						
Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days) 95	Days on Location (days) 37	End Depth (ftGRD) 14,376.5	End Depth (TVD) (ftGRD) 7,932.3	Dens Last Mud (lb/gal) 11.10	Rig PATTERSON - UTI, 225	
Operations Summary P/U Fishing Assy., TIH F/BHA-9,454', Wash F/9,454'-9,664', Mill F/9,664'-9,665', TIH F/9,665'-14,401', Circ B/U, TOH F/14,401'-13,930', Rig Service, TOH F/13,930'-5252'						
Remarks Rig (Patterson 225) & Well Progress: 37.16 days on location, 33.2 days since rig accepted on, 34.95 days since spud. Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well. Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 60% PTB= 14,403' MD, 90.6° Inc, 1.6° Azm. 5' High, 10' Right Plan #5 Note: 174' straight line projection from original lateral #1						
Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/19/2013 06:00	12/19/2013 07:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	P/U Fishing Assy - 8-1/2" Cone Buster Mill, Bit Sub, XO, Lubricated Bumper Sub, XO, Float Sub, XO, 2-Joints HWDP Note: Jars set in string to not exceed 30° in curve on bottom- 72 stds behind BHA
12/19/2013 07:00	12/19/2013 14:30	7.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	TIH F/ BHA - 9,454', hit bridge, set down 10k, M/U Top Drive, and washed F/ 9,454' - 9,664'. Hole displaced properly, no problems encountered, entered side track with no issues. Note: Tagged fish @ 9,664'
12/19/2013 14:30	12/19/2013 15:00	0.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Milled 1' F/ 9,664' - 9,665', fish broke free and was able to push fish down hole.
12/19/2013 15:00	12/19/2013 22:30	7.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continued to push fish to bottom of hole. TIH F/ 9,665' - 14,401', once on bottom set down 20k to confirm, on elevators 95% of time, washing as needed.
12/19/2013 22:30	12/20/2013 00:30	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Circulate bottoms up @ 3,500 spp, 7K trq, 140 spm, 587 gpm, 40 rpm, build slug
12/20/2013 00:30	12/20/2013 01:00	0.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Check Flow (Static), TOH on elevators F/14,403' - 13,930'. No excessive drag, hole taking proper fill out of trip tank. Note: Pulling wet pipe
12/20/2013 01:00	12/20/2013 01:30	0.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Service Rig & TD
12/20/2013 01:30	12/20/2013 06:00	4.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Check Flow (Static), Pump slug, TOH on elevators F/13,930' - 5,252'. No excessive drag, hole taking proper fill out of trip tank.
Report #: 39 Daily Operation: 12/20/2013 06:00 - 12/21/2013 06:00						
Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days) 96	Days on Location (days) 38	End Depth (ftGRD) 14,376.5	End Depth (TVD) (ftGRD) 7,932.3	Dens Last Mud (lb/gal) 11.00	Rig PATTERSON - UTI, 225	
Operations Summary TOH F/5,252-BHA, L/D BHA, Retrieve Wear Bushing & Reinstall, Rig Service, P/U BHA, TIH F/BHA-14,213', Cut Trough F/14213'-14,244', Time drill F/14,244-14,248'						
Remarks Rig (Patterson 225) & Well Progress: 38.16 days on location, 34.2 days since rig accepted on, 35.95 days since spud. Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well. Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 60% PTB= 14,248' MD, 90.42° Inc, 1.7° Azm. 0' High, 0' Right, ST #2 Plan #1 Note: 82' straight line projection from original lateral #1						

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/20/2013 06:00	12/20/2013 09:00	3	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue TOH on elevators F/ 5,252' - BHA. No excessive drag, hole taking proper fill out of trip tank.
12/20/2013 09:00	12/20/2013 10:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	L/D Fishing Assy - 8-1/2" Cone Buster Mill, Bit Sub, XO, Lubricated Bumper Sub, XO, Float Sub, XO, 2-Joints HWDP
12/20/2013 10:00	12/20/2013 11:00	1	WLHEAD	WELLHEAD	WLHEAD	Pull Wear Bushing, P/U Wash Pipe & Washout Wellhead. Install Wear Bushing.
12/20/2013 11:00	12/20/2013 12:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig and Top Drive. Center pipe in rotary by adjusting rig position with walking package.
12/20/2013 12:00	12/20/2013 13:30	1.5	BHA	BHA HANDLING	BHA	P/U Integrity Mud Motor 4/5 7.0 stage fixed @ 2° 0.50 rpg, Scribe motor, orientate muleshoe sleeve, install MWD tool, Make up NMDC's, and perform surface test (good). M/U 8-1/2" Halliburton MMD55M PDC with 1.855 TFA
12/20/2013 13:30	12/20/2013 23:00	9.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/ BHA - 14,213', filling pipe every 30 stds, hole displacing properly into trip tank, no problems encountered.
12/20/2013 23:00	12/21/2013 02:00	3	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Align TF @ 160 Right GTF and work 31' trough until no reactive torque was observed while working pipe. Note: Troughed F/14,213'-14,244'
12/21/2013 02:00	12/21/2013 06:00	4	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Time Drill 8-1/2" Production Section 4' @ 1'/Hr, 120 spm, 503 gpm, 3,100 spp, 15-25 psi diff, 251 total bit rpm, 160R GTF 1-2K WOB. Note: Side track procedure 5 min per 1" for first 5' 4 min per 1" for next 5' 3 min per 1" for next 5' 2 min per 1" for next 5' 1 min per 1" for next 5'

Report #: 40 Daily Operation: 12/21/2013 06:00 - 12/22/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
-------------------------------	-------------------------	----------------------

Days From Spud (days) 97	Days on Location (days) 39	End Depth (ftGRD) 14,376.5	End Depth (TVD) (ftGRD) 7,932.3	Dens Last Mud (lb/gal) 10.90	Rig PATTERSON - UTI, 225
-----------------------------	-------------------------------	-------------------------------	------------------------------------	---------------------------------	-----------------------------

Operations Summary

Time Drill F/14,248'-14,269', Circ while WOO, Rig Service, TOH F/14,269'-11,276', Cut Trough F/11,246'-11,276', Time Drill F/11,276'-11,282'

Remarks

Rig (Patterson 225) & Well Progress: 39.16 days on location, 35.2 days since rig accepted on, 36.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 29%

PTB= 11,282' MD, 88.3° Inc, 1.6° Azm. 0' High, 0' Right, ST #2 Plan #7

Note: 53' straight line projection from tie in @ 11229'

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/21/2013 06:00	12/21/2013 18:00	12	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Time Drill 8-1/2" Production Side Track #2 / 21' @ 1.75'/Hr, 120 spm, 503 gpm, 3,100 spp, 15-80 psi diff, 251 total bit rpm, 160R GTF 1-2K WOB. (Sidetrack unsuccessful) Note: Side track procedure 5 min per 1" for first 5' 4 min per 1" for next 5' 3 min per 1" for next 5' 2 min per 1" for next 5' 1 min per 1" for next 5' Seeing up to 80 diff psi when slacking off

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/21/2013 18:00	12/21/2013 19:00	1	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Circulate & condition mud while wait on orders Note: Decision made as per Scott Lowry & Dave Williams to TOH T/11,276' and make second attempt to sidetrack in lateral section.
12/21/2013 19:00	12/21/2013 20:00	1	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Service Rig & TD
12/21/2013 20:00	12/21/2013 21:30	1.5	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Chek Flow (Static) & TOH on elevators F/14,269' - 11,276'. No excessive drag, hole taking proper fill out of trip tank.
12/21/2013 21:30	12/22/2013 00:30	3	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Align TF @ 150 Left GTF and work 30' trough until no reactive torque was observed while working pipe. Note: Troughed F/11,246'-11,276'
12/22/2013 00:30	12/22/2013 06:00	5.5	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Time Drill 8-1/2" Production Side Track #2 / 6' @ 1"/Hr, 120 spm, 503 gpm, 3,100 spp, 15-35 psi diff, 251 total bit rpm, 150L GTF 1-2K WOB. (Attempt #2) Note: Side track procedure 5 min per 1" for first 5' 4 min per 1" for next 5' 3 min per 1" for next 5' 2 min per 1" for next 5' 1 min per 1" for next 5'

Report #: 41 Daily Operation: 12/22/2013 06:00 - 12/23/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 98	Days on Location (days) 40	End Depth (ftGRD) 12,102.5	End Depth (TVD) (ftGRD) 7,948.2	Dens Last Mud (lb/gal) 10.90	Rig PATTERSON - UTI, 225	

Operations Summary

Time Drill F/11,282'-11,318', Rotate/Slide Drill 8-1/2" Production Section F/11,318'-11,465', Rig Service, Rotate/Slide Drill F/11,465'-11,750', Circ., Rotate/Slide Drill F/11,750'-12,129'

Remarks

Rig (Patterson 225) & Well Progress: 40.16 days on location, 36.2 days since rig accepted on, 37.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 29%

PTB= 12,129' MD, 89° Inc, 2.5° Azm. 11' Low, 2' Right, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/22/2013 06:00	12/22/2013 19:00	13	UNPLANNED	Unplanned time associated with all efforts to side	U_GEO	Time Drill 8-1/2" Production Side Track #2 / 36' @ 2.75"/Hr, 120 spm, 503 gpm, 3,100 spp, 15-35 psi diff, 251 total bit rpm, 150L GTF 1-2K WOB. (Attempt #2). After 1.5' into 2 min/1" (11,292.5'), side track quit holding weight and lost differential psi, slowed back down to 3 min/1" and began holding 1k - 1.5k and differential psi back to 80 psi. Note: After 30' of time drilling, began to ease weight to bit. Holding good weight on bit, differential, and getting good reactive torque
12/22/2013 19:00	12/22/2013 20:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 52' @ 34.6"/Hr, 120 spm, 503 gpm, 3650 spp, 300 diff psi, 30 top drive rpm, 251 motor rpm, 281 total bit rpm, 15-20k wob, 8-9k ft/lbs trq. MSE 10-15 ksi.
12/22/2013 20:30	12/22/2013 21:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Slide Drill 8-1/2" Production Section 20' @ 40"/Hr, @ 90R GTF, 140 spm, 587 gpm, 25k WOB, 3,500 spp, 250 psi diff, 293 total bit rpm's.
12/22/2013 21:00	12/22/2013 21:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 75' @ 150"/Hr, 140 spm, 140 gpm, 3850 spp, 500 diff psi, 70 top drive rpm, 293 motor rpm, 363 total bit rpm, 25k wob, 12-13k ft/lbs trq. MSE 10-20 ksi.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/22/2013 21:30	12/22/2013 22:30	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig & TD
12/22/2013 22:30	12/22/2013 23:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 15' @ 30'/Hr, @ 60R GTF
12/22/2013 23:00	12/22/2013 23:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 80' @ 160'/Hr, MSE 10-20 ksi.
12/22/2013 23:30	12/23/2013 00:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr, @ 60R GTF
12/23/2013 00:00	12/23/2013 00:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 75' @ 150'/Hr, MSE 10-20 ksi.
12/23/2013 00:30	12/23/2013 01:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr, @ 90R GTF
12/23/2013 01:00	12/23/2013 01:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 75' @ 150'/Hr, MSE 10-20 ksi.
12/23/2013 01:30	12/23/2013 02:00	0.5	CIRC	CIRCULATE	CIRC	Circulate while repair clamp on #1 MP
12/23/2013 02:00	12/23/2013 02:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr, @ 90R GTF
12/23/2013 02:30	12/23/2013 04:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 179' @ 120'/Hr, MSE 10-20 ksi.
12/23/2013 04:00	12/23/2013 04:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr, @ 60R GTF
12/23/2013 04:30	12/23/2013 06:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 160' @ 106'/Hr, MSE 10-20 ksi.

Report #: 42 Daily Operation: 12/23/2013 06:00 - 12/24/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
Days From Spud (days) 99	Days on Location (days) 41	End Depth (ftGRD) 13,901.5
End Depth (TVD) (ftGRD) 7,946.3	Dens Last Mud (lb/gal) 10.90	Rig PATTERSON - UTI, 225

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/12,129'-12,792', Rig Service, Rotate/Slide Drill F/12,792'-13928'

Remarks

Rig (Patterson 225) & Well Progress: 41.16 days on location, 37.2 days since rig accepted on, 38.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 56%

PTB= 13928' MD, 88.9° Inc, 4.5° Azm. 5' Low, 33' Left, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/23/2013 06:00	12/23/2013 06:15	0.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 10' @ 40'/Hr, 140 spm, 587 gpm, 3,950 spp, 550-600 diff psi, 70 top drive rpm, 294 motor rpm, 364 total bit rpm, 20-25k wob, 11-12k ft/lbs trq. MSE 10-15 ksi.
12/23/2013 06:15	12/23/2013 07:00	0.75	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 23' @ 31'/Hr, 140 spm, 587 gpm, 3,540 spp, 200-250 psi diff, 294 total bit rpm, 30R GTF, 20k-25k Wob.
12/23/2013 07:00	12/23/2013 07:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 62' @ 65'/Hr, MSE 5-10 ksi.
12/23/2013 07:30	12/23/2013 08:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 22' @ 22'/Hr, @ 160R GTF
12/23/2013 08:30	12/23/2013 10:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 167' @ 111'/Hr, MSE 5-10 ksi.
12/23/2013 10:00	12/23/2013 11:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 25' @ 25'/Hr, @ 10R GTF
12/23/2013 11:00	12/23/2013 12:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 175' @ 117'/Hr, MSE 5-10 ksi.
12/23/2013 12:30	12/23/2013 13:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr, @ 10R GTF

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/23/2013 13:00	12/23/2013 14:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 159' @ 106'/Hr, MSE 5-10 ksi.
12/23/2013 14:30	12/23/2013 15:30	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig & Top Drive
12/23/2013 15:30	12/23/2013 17:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 105' @ 70'/Hr, MSE 10-15 ksi.
12/23/2013 17:00	12/23/2013 18:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 15' @ 15'/Hr, @ 0 GTF
12/23/2013 18:00	12/23/2013 22:30	4.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 448' @ 99'/Hr, MSE 10-15 ksi.
12/23/2013 22:30	12/23/2013 23:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr, @ 130R GTF
12/23/2013 23:00	12/24/2013 00:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 75' @ 75'/Hr, MSE 10-15 ksi.
12/24/2013 00:00	12/24/2013 01:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 15' @ 15'/Hr, @ 140R GTF
12/24/2013 01:00	12/24/2013 03:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 269' @ 107'/Hr, MSE 10-15 ksi.
12/24/2013 03:30	12/24/2013 04:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 20'/Hr, @ 50R GTF
12/24/2013 04:30	12/24/2013 06:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 113' @ 107'/Hr, MSE 10-15 ksi.

Report #: 43 Daily Operation: 12/24/2013 06:00 - 12/25/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
100	42	15,798.5	7,934.6	10.80	PATTERSON - UTI, 225		

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/13928'-14,782', Rig Service, Rotate/Slide Drill F/14,782'-15,825'

Remarks

Rig (Patterson 225) & Well Progress: 42.16 days on location, 38.2 days since rig accepted on, 39.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

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

PTB= 15,825' MD, 88.7° Inc, 3.8° Azm. 5' High, 10' Left, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/24/2013 06:00	12/24/2013 12:30	6.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 674' @ 104'/Hr, 126 spm, 528 gpm, 4,050 spp, 550-600 diff psi, 70 top drive rpm, 264 motor rpm, 334 total bit rpm, 20-25k wob, 12-15k ft/lbs trq. MSE 10-20 ksi.
12/24/2013 12:30	12/24/2013 14:30	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 10'/Hr, 126 spm, 528 gpm, 3,540 spp, 100-250 psi diff, 294 total bit rpm, 180 GTF, 20k-25k Wob.
12/24/2013 14:30	12/24/2013 15:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 97' @ 97'/Hr, MSE 10-20 ksi.
12/24/2013 15:30	12/24/2013 16:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 20'/Hr, @ 180 GTF
12/24/2013 16:30	12/24/2013 17:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 86' @ 86'/Hr, MSE 10-20 ksi.
12/24/2013 17:00	12/24/2013 18:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig & TD
12/24/2013 18:00	12/24/2013 20:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 319' @ 128'/Hr, MSE 10-20 ksi.
12/24/2013 20:30	12/24/2013 22:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13'/Hr, @ 90R GTF
12/24/2013 22:00	12/25/2013 01:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 325' @ 108'/Hr, MSE 10-20 ksi.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/25/2013 01:00	12/25/2013 02:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 7'/Hr, @ 180 GTF
12/25/2013 02:30	12/25/2013 06:00	3.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 369' @ 105'/Hr, MSE 10-20 ksi.

Report #: 44 Daily Operation: 12/25/2013 06:00 - 12/26/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 028096
Days From Spud (days) 101	Days on Location (days) 43	End Depth (ftGRD) 16,176.5
End Depth (TVD) (ftGRD) 7,928.2	Dens Last Mud (lb/gal) 10.80	Rig PATTERSON - UTI, 225

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/15,825'-16,203', CTHC, TOH F/16,203'-8,385', CBU, TOH F/8,385'-BHA, L/D BHA

Remarks

Rig (Patterson 225) & Well Progress: 43.16 days on location, 39.2 days since rig accepted on, 40.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 10.5 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 79%

PTB= 16,203' MD, 91.7° Inc, 3.6° Azm. 5' High, 14' Left, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/25/2013 06:00	12/25/2013 09:30	3.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 299' @ 85'/Hr, 124 spm, 520 gpm, 4,050 spp, 500-550 diff psi, 70 top drive rpm, 260 motor rpm, 330 total bit rpm, 20-25k wob, 15-16k ft/lbs trq. MSE 20-30 ksi.
12/25/2013 09:30	12/25/2013 10:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 6' @ 6'/Hr, 124 spm, 520 gpm, 3,540 spp, 50-75 psi diff, 260 total bit rpm, 180 GTF, 20k-25k Wob. Note: Could not get to bottom without rotating, weight stacking up and not getting to bit while sliding. Decision made to TOH and P/U 1.76° degree motor, new bit, and agitator to help with weight transfer to bit.
12/25/2013 10:30	12/25/2013 11:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 73' @ 73'/Hr, MSE 20-30 ksi.
12/25/2013 11:30	12/25/2013 16:00	4.5	CIRC	CIRCULATE	CIRC	Perform clean up cycle to TOH to P/U new motor, bit, and agitator, 136 spm, 570 gpm, 4,010 spp, 85 top drive rpm, 285 motor rpm, 370 total bit rpm. Pumped 2 weighted sweeps @ 2 ppg over 10.8 MW, circulated 3x bottoms up and shakers not clear, pumped 1 more bottoms up until shaker were clear (total of 4x bottoms up). During clean up cycle torque dropped F/ 8,900 ft/lbs T/ 5,800 ft/lb.
12/25/2013 16:00	12/25/2013 22:00	6	TRIP OUT HOLE	TOOH	TOOH	Check Flow (Static), Pump slug, TOH on elevators F/16,203' - 8,385'. No excessive drag, hole taking proper fill out of trip tank.
12/25/2013 22:00	12/25/2013 23:00	1	CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 8,385', 140 spm, 587 gpm, 3000 psi, 80 TD rpm, 4000 tq. Note: 8385' Btm. of curve in sidetrack #1
12/25/2013 23:00	12/26/2013 00:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Service Rig & TD
12/26/2013 00:00	12/26/2013 04:30	4.5	TRIP OUT HOLE	TOOH	TOOH	Check Flow (Static), Pump slug, TOH on elevators F/8,385'-BHA. No excessive drag, hole taking proper fill out of trip tank.
12/26/2013 04:30	12/26/2013 06:00	1.5	BHA	BHA HANDLING	BHA	Drain motor and break bit. Retrieve MWD tool & L/D same, L/D dirty motor.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 45 Daily Operation: 12/26/2013 06:00 - 12/27/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 028096	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
102	44	16,176.5	7,928.2	10.80	PATTERSON - UTI, 225	

Operations Summary

Rig Service, Slip & Cut, Retrieve & Reinstall wear bushing, P/U BHA, Reytrieve wear bushing, Test BOP's, Reinstall wear bushing, TIH F/BHA-852', Slip & Cut (Rig repair), TIH F/852'-2085'

Remarks

Rig (Patterson 225) & Well Progress: 44.16 days on location, 40.2 days since rig accepted on, 41.95 days since spud.

Rig NPT: 4.5 hours for previous 24 hours. 15 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 79%

PTB= 16,203' MD, 91.7° Inc, 3.6° Azm. 5' High, 14' Left, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/26/2013 06:00	12/26/2013 07:00	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Daily rig service. Grease top drive, blocks, and crown section. Check fluid levels (ok).
12/26/2013 07:00	12/26/2013 08:00	1	UNPLANNED	Other - Anything not listed above	U_OTR	Pump out cellar.
12/26/2013 08:00	12/26/2013 11:00	3	PLAN	DRLG	CUTDL	Slip & Cut 80' of drill line.
12/26/2013 11:00	12/26/2013 12:30	1.5	PROD-1-WEARBUSHING	INSTALL/REMOVE/IN SPECT WEARBUSHING	WEARBU SHING	Remove & Inspect wear bushing (ok). Wash out well head with wash sub and install wear bushing, lock down wear bushing with lock screws.
12/26/2013 12:30	12/26/2013 15:00	2.5	BHA	BHA HANDLING	BHA	PU Integrity 4/5_7.0 stg_0.5 rev/gal_1.76° ABH Mud Motor. Install MWD and confirm good seat. Shallow test Motor & MWD, good test. MU 8 1/2" Security MMD55 PDC jetted with 5/22's jets and 2/22's ports (2.597 tfa).
12/26/2013 15:00	12/26/2013 16:00	1	PROD-1-WEARBUSHING	INSTALL/REMOVE/IN SPECT WEARBUSHING	WEARBU SHING	Retrieve wear bushing and drain BOP stack. Note: Decision made to perform full BOP test due to being nearly 21 days since last.
12/26/2013 16:00	12/26/2013 22:00	6	NU/TEST	NIPPLE UP/TST	NU/TEST	Test blind rams, upper/lower pipe rams, annular, HCR valve, kill line valves, ibop, dart valve, and choke manifold to 250 psi low - 2,500 psi high. Test mud lines and back to the pumps to 250 psi low - 4,000 psi high. Note: Test accumulator as per Pioneer procedure.
12/26/2013 22:00	12/26/2013 22:30	0.5	PROD-1-WEARBUSHING	INSTALL/REMOVE/IN SPECT WEARBUSHING	WEARBU SHING	Reinstall wear bushing & lock down and label 2 lock pins on well head.
12/26/2013 22:30	12/27/2013 00:00	1.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/ BHA -852', filling pipe every 30 stds, hole diplacing properly into trip tank.
12/27/2013 00:00	12/27/2013 04:30	4.5	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Drill line not spooling up properly on drum. Slipped drill line off drum and attempted to respool drum using air hoist to hold tension on drill line while spooling back onto drum. Drill line continued to jump wraps on drum, decision made to slip drill line back off drum & slip & cut 100' of drill line. Note: May have been caused by twist in drill line when initial slip & cut was done.
12/27/2013 04:30	12/27/2013 06:00	1.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/ 852'-2085', filling pipe every 30 stds, hole diplacing properly into trip tank.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 46 Daily Operation: 12/27/2013 06:00 - 12/28/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days) 103	Days on Location (days) 45	End Depth (ftGRD) 16,969.5	End Depth (TVD) (ftGRD) 7,927.6	Dens Last Mud (lb/gal) 11.00	Rig PATTERSON - UTI, 225	

Operations Summary
TIH F/2,085'-16,203', Circ. B/U, Rotate/Slide Drill 8-1/2" Production Section F/16,203'-16,996'

Remarks
Rig (Patterson 225) & Well Progress: 45.16 days on location, 41.2 days since rig accepted on, 42.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 15 NPT hours for Well.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 87%

PTB= 16,996' MD, 89.2° Inc, 4.6° Azm. 9' High, 0' Left/Right, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/27/2013 06:00	12/27/2013 06:30	0.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/2,085' - 2,909'. Hole displacing properly into trip tank.
12/27/2013 06:30	12/27/2013 07:30	1	TRIP IN HOLE	TRIP IN HOLE	TIH	Fill up @ 2,909' md & Empty out trip tank. Note: Ran both trip tank pumps and added a trash pump to help empty out trip tank.
12/27/2013 07:30	12/27/2013 08:30	1	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/2,909' - 5,427'. Hole displacing properly into trip tank.
12/27/2013 08:30	12/27/2013 09:00	0.5	TRIP IN HOLE	TRIP IN HOLE	TIH	Fill up @ 5,427' md & Empty out trip tank. Note: Ran both trip tank pumps and added a trash pump to help empty out trip tank.
12/27/2013 09:00	12/27/2013 10:30	1.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/5,427' - 8,000'. Hole displacing properly into trip tank.
12/27/2013 10:30	12/27/2013 11:00	0.5	TRIP IN HOLE	TRIP IN HOLE	TIH	Fill up @ 8,000' md. Orient through sidetrack #1, took check shot survey to confirm that we were in right wellbore (ok). Note: Empty out trip tank.
12/27/2013 11:00	12/27/2013 12:30	1.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/8,000' - 10,652'. Hole displacing properly into trip tank.
12/27/2013 12:30	12/27/2013 13:30	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Fill pipe @ 10,652' md and conduct daily rig service. Note: Empty out trip tank.
12/27/2013 13:30	12/27/2013 15:30	2	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/10,652' - 13,470'. Hole displacing properly into trip tank. Note: Filled pipe @ 11,250' and oriented through sidetrack #2. Took check shot survey to confirm if successful (ok). Worked through sidetrack several times to clean up.
12/27/2013 15:30	12/27/2013 16:00	0.5	TRIP IN HOLE	TRIP IN HOLE	TIH	Fill pipe @ 13,470' md & empty out trip tank.
12/27/2013 16:00	12/27/2013 17:30	1.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/13,470' - 16,203'. Hole displacing properly into trip tank. Note: Washed & Reamed last 2 stands to bottom with no issues.
12/27/2013 17:30	12/27/2013 18:30	1	CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 16,203'.
12/27/2013 18:30	12/27/2013 19:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 43' @ 86'/Hr, 110 spm, 461 gpm, 4,050 spp, 500-550 diff psi, 100 top drive rpm, 230 motor rpm, 330 total bit rpm, 15-20k wob, 12-14k ft/lbs trq. MSE 20-30 ksi.
12/27/2013 19:00	12/27/2013 19:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr, 110 spm, 461 gpm, 3,500 spp, 50-100 psi diff, 230 total bit rpm, 150R GTF, 20k-25k Wob.
12/27/2013 19:30	12/28/2013 01:00	5.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 454' @ 82.5'/Hr, MSE 20-30 ksi.
12/28/2013 01:00	12/28/2013 03:00	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 10'/Hr, @ 140L GTF

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/28/2013 03:00	12/28/2013 06:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 254' @ 85'/Hr, MSE 20-30 ksi.

Report #: 47 Daily Operation: 12/28/2013 06:00 - 12/29/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 028096
Days From Spud (days) 104	Days on Location (days) 46	End Depth (ftGRD) 18,226.5	End Depth (TVD) (ftGRD) 7,929.6	Dens Last Mud (lb/gal) 11.00	Rig PATTERSON - UTI, 225	

Operations Summary

Rotate/Slide Drill 8-1/2" Production Section F/16,996'-17,659', Rig Service, Rotate/Slide Drill F/17,659'-18,253', Circ, TOH F/18,253'-17,280'

Remarks

Rig (Patterson 225) & Well Progress: 46.16 days on location, 42.2 days since rig accepted on, 43.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 15 NPT hours for Well.

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

PTB= 18,253' MD, 90.1° Inc, 3.4° Azm. 2' High, 13' Right, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/28/2013 06:00	12/28/2013 11:00	5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 474' @ 95'/Hr, 110 spm, 461 gpm, 4,000 spp, 400-550 diff psi, 100 top drive rpm, 230 motor rpm, 330 total bit rpm, 15-20k wob, 14-16k ft/lbs trq. MSE 30-40 ksi.
12/28/2013 11:00	12/28/2013 12:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 10' @ 10'/Hr, 110 spm, 461 gpm, 3,550 spp, 50-100 psi diff, 230 total bit rpm, 150L GTF, 20k-25k Wob.
12/28/2013 12:00	12/28/2013 13:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 85' @ 57'/Hr, MSE 30-40 ksi.
12/28/2013 13:30	12/28/2013 15:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13'/Hr, @ 150L GTF.
12/28/2013 15:00	12/28/2013 15:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 74' @ 148'/Hr, MSE 30-40 ksi.
12/28/2013 15:30	12/28/2013 16:30	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Daily rig service.
12/28/2013 16:30	12/28/2013 22:00	5.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production 594' @ 108'/Hr, MSE 30-40 ksi.
12/28/2013 22:00	12/29/2013 04:30	6.5	CIRC	CIRCULATE	CIRC	Perform hole clean up cycle @ 18,253' (TD). Pump (2) weighted sweeps and circulate 3 bottoms up following the sweeps (11,635 stks per complete circulation, 8,395 stks per bottoms up). Circulate @ 120 spm, 502 gpm, 3,775 spp, 100 rpm, Reciprocating a full stand @ 2,00'/hr throughout circulation. Note: Circulated until shakers were clean. Slack off weight decreased and torque went F/10,250 - 7,200 ft/lbs by the end of circulation.
12/29/2013 04:30	12/29/2013 06:00	1.5	TRIP OUT HOLE	TOOH	TOOH	TOH F/18,253'-17,280' to run 5 1/2" 17# P110 BTC Csg. Hole taking proper fill from trip tank. Note: No excessive drag seen pulling off bottom, seen 10k max over pull on first 10 stands out of the hole. Conducted flow checks @ TD and 10 stds out of the hole (Well static). Begin L/D 5" DP @ 17,280'.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 48 Daily Operation: 12/29/2013 06:00 - 12/30/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days) 105	Days on Location (days) 47	End Depth (ftGRD) 18,226.5	End Depth (TVD) (ftGRD) 7,929.6	Dens Last Mud (lb/gal) 11.00	Rig PATTERSON - UTI, 225	

Operations Summary
L/D 5" DP F/17,280'-15,818', Rig service, L/D 5" DP F/15,818'-8,385', Circ., L/D 5" DP F/8,385'-BHA, TIH F/BHA-1,044', L/D 5" DP F/1,044'-BHA

Remarks
Rig (Patterson 225) & Well Progress: 47.16 days on location, 43.2 days since rig accepted on, 44.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 15 NPT hours for Well.

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

PTB= 18,253' MD, 90.1° Inc, 3.4° Azm. 2' High, 13' Right, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/29/2013 06:00	12/29/2013 07:30	1.5	PLAN	EQUIP	DPIPE	L/D Drill Pipe F/17,280' - 15,818'. Hole taking proper fill out of trip tank. Note: Conducted flow check @ 10 stands out of the hole into trip tank, well static.
12/29/2013 07:30	12/29/2013 08:30	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Daily rig service.
12/29/2013 08:30	12/29/2013 17:00	8.5	PLAN	EQUIP	DPIPE	L/D Drill Pipe F/15,818' - 8,385'. Hole taking proper fill out of trip tank.
12/29/2013 17:00	12/29/2013 18:30	1.5	CIRC	CIRCULATE	CIRC	Circulate (2) bottoms up @ 8,385', 120 spm, 503 gpm, 2700 psi, 100 TD rpm, 3750 tq. Note: 8385' Btm. of curve in sidetrack #1
12/29/2013 18:30	12/30/2013 04:00	9.5	PLAN	EQUIP	DPIPE	L/D Drill Pipe F/8,385'-BHA. Hole taking proper fill out of trip tank.
12/30/2013 04:00	12/30/2013 04:30	0.5	TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/BHA-1,044' with final 10 stds from derrick, hole displacing properly into trip tank.
12/30/2013 04:30	12/30/2013 06:00	1.5	PLAN	EQUIP	DPIPE	L/D Drill Pipe F/1,044'-BHA. Hole taking proper fill out of trip tank.

Report #: 49 Daily Operation: 12/30/2013 06:00 - 12/31/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days) 106	Days on Location (days) 48	End Depth (ftGRD) 18,226.5	End Depth (TVD) (ftGRD) 7,929.6	Dens Last Mud (lb/gal) 11.10	Rig PATTERSON - UTI, 225	

Operations Summary
L/D BHA, Retrieve wear bushing, R/U Csg. crew, PJSM, Run 5 1/2" Csg. T/12,256'

Remarks
Rig (Patterson 225) & Well Progress: 48.16 days on location, 44.2 days since rig accepted on, 45.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 15 NPT hours for Well.

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

PTB= 18,253' MD, 90.1° Inc, 3.4° Azm. 2' High, 13' Right, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/30/2013 06:00	12/30/2013 07:30	1.5	BHA	BHA HANDLING	BHA	Lay down directional BHA.
12/30/2013 07:30	12/30/2013 08:30	1	PROD-1-WEARBUSHING	INSTALL/REMOVE/IN SPECT WEARBUSHING	WEARBU SHING	Retrieve wear bushing. Wash out well head with wash sub.
12/30/2013 08:30	12/30/2013 10:30	2	PROD-CASE	RUN PRODUCTION CSG	CASE	Rig down rig bails and elevators. Rig up Tesco CRT and equipment.
12/30/2013 10:30	12/30/2013 11:30	1	RIG SERVICE	RIG SERVICE (DRAWWORKS, TOP DRIVE ECT.)	RIGSER	Daily rig service. Clear floor of OBM and inspect Tesco casing running equipment for missing/damaged safety equipment (ok). Note: H2S drill @ 1100hrs.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/30/2013 11:30	12/30/2013 12:00	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	PJSM with Tesco, Patterson, and PNR personel. M/U 5 1/2" Float Shoe + 2 joints of 5-1/2" 17 ppf P-110 BTC + Float Collar with thread lock. Test Floats (test good). Shoe Track = 83.12'.
12/30/2013 12:00	12/30/2013 14:30	2.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/ 86' - 1,652'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 18 - 20% flow on each joint ran.
12/30/2013 14:30	12/30/2013 15:00	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill 5 1/2" Production Casing with 364 stks @ 75 spm, 250 spp, 25% flow. Full returns to surface during circulation.
12/30/2013 15:00	12/30/2013 16:00	1	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/1,652' - 2,727'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 20 - 21% flow on each joint ran.
12/30/2013 16:00	12/30/2013 16:30	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 250 stks @ 100 spm, 420 spp, 27% flow. Full returns to surface during circulation. Note: Empty out trip tank.
12/30/2013 16:30	12/30/2013 19:00	2.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/2,727'-4,943'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 15 - 17% flow on each joint ran.
12/30/2013 19:00	12/30/2013 19:30	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 492 stks @ 100 spm, 450 spp, 28% flow. Full returns to surface during circulation. Note: Empty out trip tank.
12/30/2013 19:30	12/30/2013 21:00	1.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/4,943'-6,593'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 12-14% flow on each joint ran.
12/30/2013 21:00	12/30/2013 21:30	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 452 stks @ 100 spm, 540 spp, 26% flow. Full returns to surface during circulation.
12/30/2013 21:30	12/30/2013 23:00	1.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/6,593'-7,986. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 12-14% flow on each joint ran.
12/30/2013 23:00	12/30/2013 23:30	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 452 stks @ 100 spm, 540 spp, 26% flow. Full returns to surface during circulation. Note: Empty out trip tank.
12/30/2013 23:30	12/31/2013 01:30	2	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/7,986-9,913'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 12-14% flow on each joint ran. Note: Sidetrack #1 @ 8018' no issues or excessive drag.
12/31/2013 01:30	12/31/2013 02:00	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 525 stks @ 100 spm, 600 spp, 25% flow. Full returns to surface during circulation. Note: Empty out trip tank.
12/31/2013 02:00	12/31/2013 04:00	2	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/9,913'-11,256'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 12-14% flow on each joint ran.
12/31/2013 04:00	12/31/2013 04:30	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 460 stks @ 100 spm, 720 spp, 25% flow. Full returns to surface during circulation. Note: Empty out trip tank.
12/31/2013 04:30	12/31/2013 06:00	1.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/11,256'-12,256'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 12-14% flow on each joint ran. Note: Sidetrack #2 @ 11,276' no issues or excessive drag.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 50 Daily Operation: 12/31/2013 06:00 - 1/1/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days) 107	Days on Location (days) 49	End Depth (ftGRD) 18,226.5	End Depth (TVD) (ftGRD) 7,929.6	Dens Last Mud (lb/gal) 11.20	Rig PATTERSON - UTI, 225	

Operations Summary

Run 5 1/2" Csg. F/12,256'-18,253', Circ., R/D Tesco, R/U Schlumberger, Pump Cement, Flush lines, Back off landing joint, Prep BOP for lift, Lift BOP & install pack off

Remarks

Rig (Patterson 225) & Well Progress: 49.16 days on location, 45.2 days since rig accepted on, 46.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 15 NPT hours for Well.

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

PTB= 18,253' MD, 90.1° Inc, 3.4° Azm. 2' High, 13' Right, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/31/2013 06:00	12/31/2013 06:30	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/12,256 - 13,252'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 12-14% flow on each joint ran.
12/31/2013 06:30	12/31/2013 07:30	1	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 464 stks @ 100 spm, 770 spp, 28% flow. Circulate bottoms up @ 13,252'. Full returns to surface during circulation.
12/31/2013 07:30	12/31/2013 09:00	1.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/13,252'-14,801'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 12-14% flow on each joint ran.
12/31/2013 09:00	12/31/2013 09:30	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 360 stks @ 100 spm, 980 spp, 28% flow. Full returns to surface during circulation.
12/31/2013 09:30	12/31/2013 11:00	1.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/14,801'-16,521'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 13-15% flow on each joint ran.
12/31/2013 11:00	12/31/2013 11:30	0.5	PROD-CASE	RUN PRODUCTION CSG	CASE	Fill 5 1/2" Production Casing with 400 stks @ 100 spm, 1050 spp, 28% flow. Full returns to surface during circulation.
12/31/2013 11:30	12/31/2013 13:30	2	PROD-CASE	RUN PRODUCTION CSG	CASE	Run 5 1/2" 17# P110 BTC production casing F/16,521'-18,228'. Avg torque @ 5,600 ft/lbs, casing making up to the base of the triangle. Hole displacing properly into trip tank, and have 13-15% flow on each joint ran.
12/31/2013 13:30	12/31/2013 14:00	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Make up Hanger and landing joint to top of last 5 1/2" casing joint. Fill up casing with 396 strokes and wash down landing joint F/18,228' - 18,253'. Set hanger in multi bowl well head, pick up and set down once more to confirm good seat (ok).
12/31/2013 14:00	12/31/2013 15:30	1.5	PROD-CIRC	CIRCULATE	CIRC	Circulate 1 1/2x casing volume= 6,500 stks @ 100 spm, 418 gpm, 1,000 psi. Full returns to surface. Shoe depth: 18,253' md. Float Collar depth: 18,166' md. Shoe track length: 86.12' Marker's @ 7,594' & 7,417'. Ran 31 rigid body centralizers. 1 every joint from 8,300' - 7,550'. 1 every 2nd joint from 7,550' - 6,500'. Note: Schlumberger pump truck made it on time @ 1400hrs, cement trucks running late, mixed wrong batch in the cement trucks and had to reload. Still waiting on lab results for cement slurry's, will circulate until ready to cement.
12/31/2013 15:30	12/31/2013 17:30	2	UNPLANNED	Other - Anything not listed above	U_OTR	Rig down Tesco. Rig up long bails, and casing elevators. Perform daily rig service. Note: Wait on Schlumberger cement trucks, and lab reports until 1730hrs.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/31/2013 17:30	12/31/2013 19:00	1.5	PROD-CMT	CEMENT PRODUCTION CSG	CMT	RU Schlumberger cement crew and equipment. PJSM with Schlumberger cement crew, rig crew, tool pusher, and PNR representative on cementing operations. Load bottom & top plug in cement head, installed tattle tail on top plug (PNR representative supervised this operation). Rig up cement head, and chickens.
12/31/2013 19:00	1/1/2014 00:00	5	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	<p>Schlumberger test cement lines at 4,500 psi (Good test). Mix & pump cement as follows:</p> <p>Mudpush Express - 80 bbls @ 10.5 lb/gal. Mixed with 1.0 lb/bbl of mudpush express B389, 2.0 gal/bbl of surfactant B220, 0.2 gal/bbl of anti foam D206, 119 lb/bbl of weighting agent D031.</p> <p>Scavenger Slurry - 220 bbls @ 11.0 lb/gal, 2.79 yield, 16.985 gal/sk h20. Mixed with 75 lb/sk cement D049, 0.2% BWOB fluid loss D207, 10.0% BWOB extender D020, 6.0% BWOB extender D154, 0.2% anti foam D046, 0.9% BWOB retarder D013, and 0.2% BWOB viscosifier D208.</p> <p>Tail Slurry - 591 bbls @ 12.5 lb/gal, 1.63 yield, 8.770 gal/sk h20. Mixed with 75 lb/sk cement D049, 0.6% BWOB fluid loss D207, 0.2% BWOB anti foam D046, 0.6% BWOB retarder D013, 5.0% BWOB extender D020, 0.1% BWOB dispersant D065, and 0.02% BWOB viscosifier D208.</p> <p>PNR representative observed tattle tail leave cement head when pumping down top plug. Displaced with 422 bbls @ 8.32 lb/gal mixed with 0.084 gal/bbl green-cide 25G B244. Bump plug @ 2355 hrs 12/31/13 with 600 psi over final lift pressure of 1,800 psi (2,400 psi). Held pressure for 5 min, floats held. Released pressure @ 0000 hrs, bled back 3.5 bbls.</p> <p>Circulated out 80 bbls Mudpush Express, and 42 bbls of Scavenger slurry (84 sk's).</p> <p>Note: After bumping top plug monitored well for flow on flow line for 10 min, well was static.</p> <p>*Held full returns to surface throughout cement job.</p>
1/1/2014 00:00	1/1/2014 01:30	1.5	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Wash through BOP and Choke Manifold. RD Schlumberger cement crew and equipment.
1/1/2014 01:30	1/1/2014 02:30	1	COMPL	ND, NU, Testing, Sleeve Installation, Greasing Wel	WLHEAD	Back off landing joint & pull out same, drain BOP and attempt to wash out. Observed trash or possibly cement on top of mandrel hanger attempted to wash by running water hose down BOP without success. Decision made to lift BOP and clean obstructions, and install pack off by hand & run in lock pins.
1/1/2014 02:30	1/1/2014 06:00	3.5	PROD-NU/TEST	NIPPLE UP/TEST	NU/TEST	<p>Nipple down catch pan, dresser sleeve on flow line, and hang off flow line, R/D turn buckles, fill up line, remove choke & kill line and remove mouse hole, remove hydraulic lines and raise BOP handler.</p> <p>Note: Wait on cement (4 hrs) to set up prior to breaking the integrity of the BOP stack, removing hydraulic lines, or kill & choke lines. Monitored for flow during this time as well (well static).</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 51 Daily Operation: 1/1/2014 06:00 - 1/2/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 028096
Days From Spud (days) 108	Days on Location (days) 50	End Depth (ftGRD) 18,226.5	End Depth (TVD) (ftGRD) 7,929.6	Dens Last Mud (lb/gal) 11.20	Rig PATTERSON - UTI, 225	

Operations Summary

N/D BOP, Begin prepping rig for move, OBM pit clean up.

Remarks

Rig (Patterson 225) & Well Progress: 50.16 days on location, 46.2 days since rig accepted on, 47.95 days since spud.

Rig NPT: 0 hours for previous 24 hours. 15 NPT hours for Well.

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

PTB= 18,253' MD, 90.1° Inc, 3.4° Azm. 2' High, 13' Right, ST #2 Plan #7

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/1/2014 06:00	1/1/2014 11:00	5	NU/TEST	NIPPLE UP/TST	NU/TEST	Continue to ND BOP, Lift BOP stack and install pack-off. Install abandonment cap on top of B section and NU same. Note: Broke bolts on ram doors, will inspect rubbers on new location and replace bonnet seals.
1/1/2014 11:00	1/1/2014 15:00	4	MOBILIZATION	RDMO	RDMO	Lay BOP down with handler. Rig down accumulator. Pin top drive to trac. Hang off traveling blocks. Rig down miscellaneous on rig floor. Rig down back yard. Note: CNH performing pit cleaning to ready for transport.
1/1/2014 15:00	1/2/2014 06:00	15	MOBILIZATION	RDMO	RDMO	Continue with final OBM rig cleaning as per Patterson contract. R/D miscellaneous equipment, electric lines, gas separator, mud pumps, and rig floor. Rig down mud tanks. Unspool drill line off drum. Rig down remaining electrical and backyard. Note: Toolpusher & Co man verified pits were clean and released rig 01/02/2014 @ 06:00 hrs.

Report #: 1 Daily Operation: 1/5/2014 06:00 - 1/6/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 112	Days on Location (days) 1	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	

Operations Summary

No activity.
Held JSA Safety Meeting.
Install Tubing head/ B-Section.
Plumb Surface & Intermediate.
Fill Cellar w/ pea gravel.
NU Priority 7 1/6" 10K Frac Stack.
WSI No Activity.

Remarks

No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/5/2014 06:00	1/5/2014 07:00	1	PROD1	OTHER	WSI	No activity.
1/5/2014 07:00	1/5/2014 07:30	0.5	PROD1	SHARE	SFTY	Held JSA Safety
1/5/2014 07:30	1/5/2014 10:30	3	WLHEAD	WELLHEAD	WLHEAD	MI Seaboard and installed 11 5M x 7 1/6" 10M Tubing Head B-Section. Tested tubing head seals to 5000 Psi, good test. MI Renegade and plumb Surface & Intermediate valves, fill cellar w/pea gravel. MI/NU Priority 7 1/6" 10K Frac stack lower half w/ WL 10K adapter.
1/5/2014 10:30	1/6/2014 06:00	19.5	PROD1	OTHER	WSI	WSI No activity.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 2 Daily Operation: 1/6/2014 06:00 - 1/7/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 113	Days on Location (days) 2	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	

Operations Summary
WSI, No activity.
Held JSA Safety Meeting.
RIH w/ 4.625" GR/JB.
RIH w/ GR/CBL/CCL.
Top of cement hard to tell 7,584'
Test CSG test good
RDMO

Remarks
No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/6/2014 06:00	1/6/2014 14:30	8.5	PROD1	OTHER	WSI	WSI No activity.
1/6/2014 14:30	1/6/2014 15:00	0.5	PROD1	SHARE	SFTY	Held JSA Safety Meeting
1/6/2014 15:00	1/6/2014 16:00	1	PROD1	WORK	RURD	MIRU API WL & Support equipment.
1/6/2014 16:00	1/6/2014 17:00	1	LOG	LOG	LOG	RIH w/ WL 4.625" OD Gauge Ring and Junk Basket to 7,740' WLM. POOH w/ GR/JB.
1/6/2014 17:00	1/6/2014 20:00	3	LOG	LOG	LOG	OOH w/ GR/JB. ND lubricator, PU CBL Radial Logging tool. Pull 200' log not looking good. Pressure to 1,500 PSI and log.
1/6/2014 20:00	1/6/2014 21:30	1.5	TEST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRILL OUT/FIT	Test annulus to 1,500 PSI. Hold PSI. Test CSG to 80% 9,500 PSI with chart. Test good
1/6/2014 21:30	1/7/2014 06:00	8.5	PROD1	OTHER	WSI	WSI waiting on coil clean out.
1/7/2014 06:00	1/7/2014 06:00					

Report #: 3 Daily Operation: 1/7/2014 06:00 - 1/8/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 114	Days on Location (days) 3	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig Coiled Tubing Solutions, #7	

Operations Summary
WSI.
Held JSA Safety Meeting.
MIRU CTS 2 3/8" CTU & Blackhole 2 7/8" Motor.
Tested CT Lubricator/Stack to 7500 Psi.
RIH w/ Cleanout BHA to 18,169 ft. CTM.
Pump 16 bbls of Limonene & Treated Water.
POOH w/ Cleanout BHA.
RDMO

Remarks
No accidents or incidents

CTS Down time 0 hrs. Cum Down time 0 hrs.

Exclusive Down time 1 hrs. Cum Down time 1 hrs.

Blackhole Down time 0 hrs. Cum Down time 0 hrs.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/7/2014 06:00	1/7/2014 07:00	1	PROD1	OTHER	WSI	WSI Pending CBL Logging ops on #18H & 19H.
1/7/2014 07:00	1/7/2014 07:30	0.5	PROD1	SHARE	SFTY	Held JSA Safety Meeting w/ day crew.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/7/2014 07:30	1/7/2014 09:30	2	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	MIRU Coil Tubing Solutions 2 3/8" CTU and Support equipment. Function tested 15K BOP's, PU 15K Lubricator, Cut -off 15 ft of coil, PU Blackhole 2 7/8" OD Motor and PNR 4 3/4" OD Bear Claw Mill. Pull tested CT connector to 25,000 lbs, good test. SD waiting on Exclusive mixing plant.
1/7/2014 09:30	1/7/2014 10:30	1	UNPLANNED	Other - Anything not listed above	U_OTR	Waiting on Exclusive mixing plant, hotshot truck broke down
1/7/2014 10:30	1/7/2014 11:45	1.25	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Coutinue rigging up CTU support equipment. Load tubing w/ treated fresh water. Test Blackhole motor at 3 BPM @ 3500 Psi. NU lubricator, tested CT lubricator/stack to 7500 Psi, good test.
1/7/2014 11:45	1/7/2014 16:00	4.25	COMPL	Clean out with tubulars @ beginning of completion	TUB-CLNOUT	RIH w/ Coil, Motor & Bear Claw Bit. Tagged PBTD @ 18,169 ft CTM. PU and pump 16 bbls of Limonene, 5 bbls KCL water spacer, 10 bbl dye sweep. Circulate the wellbore clean with treated water.
1/7/2014 16:00	1/7/2014 20:00	4	TRIP OUT HOLE	TOOH	TOOH	POOH w/ Cleanout BHA.
1/7/2014 20:00	1/8/2014 05:00	9	PROD1	OTHER	WSI	WSI ready to perf.

Report #: 4 Daily Operation: 1/8/2014 06:00 - 1/9/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 115	Days on Location (days) 4	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig Coiled Tubing Solutions, #7	

Operations Summary

WSI Ready to perforate.

Remarks

No accidents or incidents

CTS Down time 0 hrs. Cum Down time 0 hrs.

Exclusive Down time 0 hrs. Cum Down time 1 hrs.

Blackhole Down time 0 hrs. Cum Down time 0 hrs.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/8/2014 06:00	1/9/2014 06:00	24	COMPL	Clean out with tubulars @ beginning of completion	TUB-CLNOUT	WSI waiting to perforate

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 5 Daily Operation: 1/9/2014 06:00 - 1/10/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 116	Days on Location (days) 5	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig Coiled Tubing Solutions, #7	

Operations Summary
 WSI Ready to perforate.
 MORU from #18H well.
 PU CDK 5 clusters TCP guns.
 RIH w/coil & guns.
 Tagged PBTD @ 18,165 ft CTM. (FC @ 18,166' MD).
 PU 20' & Perfed stage 1 as design.
 POOH w/ coil & guns.
 OOH w/ guns, all shots fired.
 RDMOL CTU & Support equipment.
 WSI Ready to frac.

Remarks
 No accidents or incidents

CTS Down time 0 hrs. Cum Down time 0 hrs.

Exclusive Down time 0 hrs. Cum Down time 1 hrs.

Blackhole Down time 0 hrs. Cum Down time 0 hrs.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/9/2014 06:00	1/9/2014 18:00	12	COMPL	TCP operations	TCP	WSI waiting to perforate.
1/9/2014 18:00	1/9/2014 18:45	0.75	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	MORU from #18H well. PU CDK 5 clusters perforating guns, 8 holes, 2' cluster length, 4 spf (3 1/8" guns, 19 gram charge, 60 degree phasing. Minimum 0.42" EHD and 24" perf distance.
1/9/2014 18:45	1/9/2014 22:00	3.25	COMPL	TCP operations	TCP	RIH w/ TCP guns. Pumping at .75 bpm @ 200 psi. Start pumping pipe-on-pipe (Lube 360 & Bek-A-Lube). Tagged bottom @ 18,165 ft CTM, (FC @ 18,166' MD). PU 20 ft, pressure casing to 2300 Psi and fired 1st guns, other 4 guns set on 6 minute time delay. Perforate stage 1 toe as design at 18,144' - 18,146', 18,084' - 18,086', 18,024' - 18,026', 17,964' - 17,966', & 17,904' - 17,906'. All shorts fired. POOH holding 2000 psi back-pressure on formation.
1/9/2014 22:00	1/10/2014 00:30	2.5	COMPL	TCP operations	TCP	POOH w/ Coil and TCP guns.
1/10/2014 00:30	1/10/2014 03:00	2.5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	OOH w/ Coil and TCP guns. All shots fired. RDMOL CDK Perforating, Blackhole Tools and Coiled Tubing Solutions (CTS) and support equipment.
1/10/2014 03:00	1/10/2014 06:00	3	PROD1	OTHER	WSI	WSI Ready to frac.

Report #: 6 Daily Operation: 1/10/2014 06:00 - 1/11/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 117	Days on Location (days) 6	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary
 RD all toe prep ops and release.
 Begin Ru of frac ops.
 MI/NU Priority Frac stack upper-half.
 Continue RU for frac ops.
 WSI Ready to frac.

Remarks
 No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/10/2014 06:00	1/10/2014 18:00	12	COMPL	TCP operations	TCP	RD all toe prep equipment. Begin moving in frac equipment.
1/10/2014 18:00	1/10/2014 18:15	0.25	PROD1	SHARE	SFTY	Held JSA Safety Meeting w/ Priority

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/10/2014 18:15	1/10/2014 20:00	1.75	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	MIRU Priority Frac stack 10K upper-half w/ WL 10K Adapter.
1/10/2014 20:00	1/11/2014 06:00	10	PROD1	OTHER	WSI	WSI, Continue loading sand silo's.

Report #: 7 Daily Operation: 1/11/2014 06:00 - 1/12/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 118	Days on Location (days) 7	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

WSI, MIRU Pioneer Pumping Services and all third party equipment.

Remarks

No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/11/2014 06:00	1/12/2014 06:00	24	MOBILIZATION	MIRU	MIRU	WSI, MIRU Pioneer pumping services and all third party equipment

Report #: 8 Daily Operation: 1/12/2014 06:00 - 1/13/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 119	Days on Location (days) 8	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 1 of 35.

Perf Stages 2 of 35.

WSI Pending frac ops on 18H.

Held 1,500 psi on the intermediate casing.

Remarks

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

FTR: 9,534 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 9,534 bbls

TSIF: 352,002 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/12/2014 06:00	1/12/2014 11:30	5.5	COMPL	Other operations	OTHR	WSI, Await Frac Ops on the #19H

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/12/2014 11:30	1/12/2014 13:45	2.25	COMPL	Frac	STIM	<p>Frac Stage # 1 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 0 bbls. 15% HCL 36,828 # 100 MESH / 315,174 # 30/50 Brady/ 8,906 BBLS Slickwater fluid, down 5.5' #20 CSG</p> <p>Formation broke @ 6.7 BPM/ 4,391 PSI</p> <p>Shutdown: @ 80 BPM/7,605 PSI @ 60 BPM/5,617 PSI @ 40 BPM/4,475 PSI @ 20 BPM/3,649 PSI</p> <p>Pad ISIP: 2,816 PSI / 5 Min: 2,427 PSI</p> <p>Avg rate: 80 BPM Avg PSI: 6,467 Max rate: 81 BPM Max PSI: 8,243</p> <p>ISIP: 2,556 PSI FG .75</p> <p>FTR: 8,906 BBLS SIF: 352,002 # TOTAL SIF: 352,002 #</p> <p>Note- Had pump issues during the 1# 100 Mesh stage causing the rate to fluctuate.</p>
1/12/2014 13:45	1/12/2014 15:45	2	COMPL	Other operations	OTHR	WSI,Awaiting wireline ops on the #19H
1/12/2014 15:45	1/12/2014 19:00	3.25	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #2 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 17,875' Perforated Intervals: 17,846-17,844 / 17,786-17,784 / 17,726-17,724 / 17,666-17,664 / 17,606-17,604 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5000 psi. Line Speed 340 ft/min</p> <p>Used 628 bbls LTR Total 9,534 Bbls</p> <p>Ran Gamma Ray</p>
1/12/2014 19:00	1/13/2014 05:00	10	PROD1	OTHER	WSI	WSI, Awaiting Frac Ops on the 18H & 19H.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 9 Daily Operation: 1/13/2014 06:00 - 1/14/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 120	Days on Location (days) 9	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 2 of 35.
Perf Stages 3 of 35.
Start Frac on stage #4 @ time of report.

Held 1,500 psi on the intermediate casing.

Remarks

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

FTR: 30,710 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 30,710 bbls

TSIF: 1,053,312 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/13/2014 06:00	1/13/2014 09:30	3.5	PROD1	OTHER	WSI	WSI, Awaiting Frac Ops on the 18H & 19H.
1/13/2014 09:30	1/13/2014 11:45	2.25	COMPL	Frac	STIM	<p>Frac Stage # 2 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 0 bbls. 15% HCL 37,850 # 100 MESH / 312,659 # 30/50 Brady/ 8,890 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 19 BPM/ 3,684 PSI</p> <p>Shutdown: @ 80 BPM/6,206 PSI @ 60 BPM/5,394 PSI @ 40 BPM/4,484 PSI @ 20 BPM/3,619 PSI</p> <p>Pad ISIP: 2,805 PSI / 5 Min: 2,524 PSI</p> <p>Avg rate: 80.3 BPM Avg PSI: 6,253 Max rate: 80.0 BPM Max PSI: 7,149</p> <p>ISIP: 3,125 PSI FG .82</p> <p>FTR: 18,424 BBLS SIF: 350,509 # TOTAL SIF: 702,511 #</p>
1/13/2014 11:45	1/13/2014 14:00	2.25	COMPL_UNPLN D	Perf gun did not fire - Time to POOH to back on bt	U_PERF	<p>RU E&P WL for stage #3 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 17,575' Perforated Intervals: 17,546-17,544 / 17,486-17,484 / 17,426-17,424 / 17,366-17,364 / 17,306-17,304 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5,730 psi. Line Speed 290 ft/min</p> <p>Used 461 bbls LTR Total 18,885 Bbls</p>
1/13/2014 14:00	1/13/2014 16:00	2	COMPL	Other operations	OTHR	WSI, Awaiting Frac Ops on the 19H.
1/13/2014 16:00	1/13/2014 18:00	2	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	PPS down having to weld on missile.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/13/2014 18:00	1/13/2014 20:30	2.5	COMPL	Frac	STIM	<p>Frac Stage # 3 of 35. Test stack to 9,500 PSI , Frac perms as proposed W/ 0 bbls. 15% HCL 37,408 # 100 MESH / 313,405 # 30/50 Brady/ 11,273 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,494 PSI</p> <p>Stepdown: @ 80 BPM/6,353 PSI @ 60 BPM/5,382 PSI @ 40 BPM/4,335 PSI @ 20 BPM/3,500 PSI</p> <p>Pad ISIP: 2,940 PSI / 5 Min: 2,640 PSI F.G.-0.80</p> <p>Avg rate: 77 BPM Avg PSI: 6,702 Max rate: 80.0 BPM Max PSI: 8,067</p> <p>ISIP: 2,651 PSI FG .77</p> <p>FTR: 30,158 BBLS SIF: 350,801 # TOTAL SIF: 1,053,312 #</p>
1/13/2014 20:30	1/13/2014 23:30	3	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #4 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 17,275' Perforated Intervals: 17,246-17,244 / 17,186-17,184 / 17,126-17,124 / 17,066-17,064 / 17,006-17,004 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5,900 psi. Line Speed 290 ft/min</p> <p>Used 552 bbls LTR Total 30,710 Bbls</p>
1/13/2014 23:30	1/14/2014 04:30	5	COMPL	Other operations	OTHR	WSI, Awaiting Frac Ops on the19H.
1/14/2014 04:30	1/14/2014 05:00	0.5	COMPL	Frac	STIM	Start Frac on stage #4 @ time of report.

Report #: 10 Daily Operation: 1/14/2014 06:00 - 1/15/2014 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 028196
--	--------------------------------	-----------------------------

Days From Spud (days) 121	Days on Location (days) 10	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>
-------------------------------------	--------------------------------------	-----------------------------------	-------------------------	------------------------	---

Operations Summary

Frac Stages 4, and 5 of 35.
Perf Stages 5 and 6 of 35.
Fracing stage 6 of 35 @ report time.

Held 1,500 psi on the intermediate casing.

Remarks

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

FTR: 49,475 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 49,475 bbls

TSIF: 1,754,407 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/14/2014 06:00	1/14/2014 08:00	2	COMPL	Frac	STIM	<p>Frac Stage 4 of 35. Test stack to 9,500 PSI , Frac perms as proposed W/ 0 bbls. 15% HCL 37534 # 100 MESH / 313,724 # 30/50 Brady/ 8909 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 10 BPM/ 3,393 PSI</p> <p>Shutdown: @ 80 BPM/6,390 PSI @ 60 BPM/5,283 PSI @ 40 BPM/4,280 PSI @ 20 BPM/3,620 PSI</p> <p>Pad ISIP: 3,079 PSI / 5 Min: 2,720 PSI</p> <p>Avg rate: 81 BPM Avg PSI: 6,621 Max rate: 80.0 BPM Max PSI: 8,078</p> <p>ISIP: 2,909 PSI FG .79</p> <p>FTR: 39,619 BBLS SIF: 351,258 # TOTAL SIF: 1,404,570 #</p>
1/14/2014 08:00	1/14/2014 10:30	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #5 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 16,975' Perforated Intervals: 16,946-16,944 / 16,886-16,884 / 16,826-16,824 / 16,766-16,764 / 16,706-16,704 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 6,200 psi. Line Speed 300 ft/min</p> <p>Used 444 bbls LTR Total 40,063 Bbls</p>
1/14/2014 10:30	1/14/2014 14:30	4	COMPL	Other operations	OTHR	WSI,Awaiting frac ops on the #18H and #19H
1/14/2014 14:30	1/14/2014 17:00	2.5	COMPL	Frac	STIM	<p>Frac Stage # 5 of 35. Test stack to 9,500 PSI , Frac perms as proposed W/ 0 bbls. 15% HCL 39,649 # 100 MESH / 319,188 # 30/50 Brady/ 8,875 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,397 PSI</p> <p>Shutdown: @ 80 BPM/6,208 PSI @ 60 BPM/5,228 PSI @ 40 BPM/4,263 PSI @ 20 BPM/3,655 PSI</p> <p>Pad ISIP: 2,876 PSI / 5 Min: 2,742 PSI</p> <p>Avg rate: 75.3 BPM Avg PSI: 6,182 Max rate: 81.3 BPM Max PSI: 6,967</p> <p>ISIP: 2,848 PSI FG .79</p> <p>FTR: 48,938 BBLS SIF: 349,837 # TOTAL SIF: 1,754,407 #</p>
1/14/2014 17:00	1/14/2014 23:30	6.5	PROD1	OTHER	WSI	WSI, Awaiting frac ops on the 18H and 19H.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/14/2014 23:30	1/15/2014 02:00	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #6 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 16,675' Perforated Intervals: 16,646' - 16,644' / 16,586' - 16,584' / 16,526' - 16,524' / 16,466' - 16,464' / 16,406' - 16,404' w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL. Pump Down @ 18 bpm / 6400 psi. Line Speed 325 ft/min Used 537 bbls FTR Total 49,475 Bbls.
1/15/2014 02:00	1/15/2014 05:00	3	PROD1	OTHER	WSI	WSI, Awaiting frac ops on 19H.
1/15/2014 05:00	1/15/2014 06:00	1	COMPL	Frac	STIM	Fracing stage #6 @ time of report.

Report #: 11 Daily Operation: 1/15/2014 06:00 - 1/16/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days) 122	Days on Location (days) 11	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 7 thru 8
Perf Stages 7 thru 9

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 0.0 Hrs
Select Water Transf Down Time: 1.25 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 0.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 78,175 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 78,175 bbls

TSIF: 2,810,811 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/15/2014 06:00	1/15/2014 08:00	2	COMPL	Frac	STIM	Frac Stage 6 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 0 bbls. 15% HCL 37534 # 100 MESH / 313,724 # 30/50 Brady/ 8909 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 10 BPM/ 3,713 PSI Shutdown: @ 80 BPM/6,780 PSI @ 60 BPM/5,560 PSI @ 40 BPM/4,383 PSI @ 20 BPM/3,600 PSI Pad ISIP: 3,077 PSI / 5 Min: 2,900 PSI Avg rate: 78 BPM Avg PSI: 6,654 Max rate: 80.0 BPM Max PSI: 7,884 ISIP: 3,025 PSI FG .81 Psi/Ft FTR: 39,619 BBLS SIF: 351,006 # TOTAL SIF: 2,105,413 #

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/15/2014 08:00	1/15/2014 11:30	3.5	COMPL	Other operations	OTHR	Waiting on frac and wireline operations on the 18H and 19H
1/15/2014 11:30	1/15/2014 13:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #7 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 16,375' Perforated Intervals: 16,104-16,106 / 16,164-16,166 / 16,224-16,226 / 16,284-16,286 / 16,344-16,346 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 6,450 psi. Line Speed 300 ft/min Used 480 bbls LTR Total 40,543 Bbls
1/15/2014 13:30	1/15/2014 14:00	0.5	COMPL	Other operations	OTHR	Waiting on frac and wireline operations on the 18H and 19H
1/15/2014 14:00	1/15/2014 16:30	2.5	COMPL	Frac	STIM	Frac Stage # 7 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 0 bbls. 15% HCL 41,470 # 100 MESH / 311,877 # 30/50 Brady/ 8,977 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 15 BPM/ 3,502 PSI Shutdown: @ 80 BPM/5,978 PSI @ 60 BPM/4,969 PSI @ 40 BPM/4,105 PSI @ 20 BPM/3,462 PSI Pad ISIP: 2,958 PSI / 5 Min: 2,658 PSI Avg rate: 80 BPM Avg PSI: 6,214 Max rate: 81.5 BPM Max PSI: 6,651 ISIP: 2,843 PSI FG .79 FTR: 8,977 BBLS SIF: 353,347 # TOTAL SIF: 2,458,760 #
1/15/2014 16:30	1/15/2014 18:00	1.5	COMPL	Other operations	OTHR	Waiting on frac and wireline operations on the 18H and 19H
1/15/2014 18:00	1/15/2014 20:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #8 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 16,075' Perforated Intervals: 16,046-16,044 / 15,986-15,984 / 15,926-15,924 / 15,866-15,864 / 15,806-15,804 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5,600 psi. Line Speed 290 ft/min Used 507 bbls LTR Total 68,348 Bbls
1/15/2014 20:00	1/16/2014 00:15	4.25	COMPL	Other operations	OTHR	WSI,Await frac ops on the #19H

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/16/2014 00:15	1/16/2014 04:00	3.75	COMPL	Frac	STIM	<p>Frac Stage # 8 of 35. Test stack to 8,500 PSI , Frac perfs as proposed W/ 0 bbls. 15% HCL 37,415 # 100 MESH / 314,636 # 30/50 Brady/ 9,348 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 2995 PSI</p> <p>Shutdown: @ 80 BPM/5,848 PSI @ 60 BPM/4,929 PSI @ 40 BPM/4,123 PSI @ 20 BPM/3,470 PSI</p> <p>Pad ISIP: 2,995 PSI / 5 Min: 2,675 PSI</p> <p>Avg rate: 77.6 BPM Avg PSI: 6,145 Max rate: 82 BPM Max PSI: 7,549</p> <p>ISIP: 2,870 PSI FG .79</p> <p>FTR: 77,696 BBLS SIF: 352,051 # TOTAL SIF: 2,810,811 #</p> <p>Note- Had to shut down during the .5# 30/50 stage for 1.25 hrs due to running out of water in the frac tanks. Select Water Transfer had to be woke up because they were sleeping in the pickup.</p>
1/16/2014 04:00	1/16/2014 04:30	0.5	COMPL	Other operations	OTHR	Waiting on frac and wireline operations on the 18H and 19H
1/16/2014 04:30	1/16/2014 06:00	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #9 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 15,775' Perforated Intervals: 15,746-15,744 / 15,686-15,684 / 15,626-15,624 / 15,566-15,564 / 15,506-15,504 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 6,000 psi. Line Speed 290 ft/min</p> <p>Used 479 bbls LTR Total 78,175 Bbls</p>

Report #: 12 Daily Operation: 1/16/2014 06:00 - 1/17/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	028196

Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig
123	12	-26.5			PIONEER PUMPING SERVICES, <rigno>

Operations Summary

Frac Stages 9 thru 10
Perf Stages 10 thru 11

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 0.0 Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 0.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 97,029 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 97,029 bbls

TSIF: 3,511,864 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/16/2014 06:00	1/16/2014 13:00	7	COMPL	Other operations	OTHR	WSI,Await frac ops on the #19H
1/16/2014 13:00	1/16/2014 15:00	2	COMPL	Frac	STIM	<p>Frac Stage # 9 of 35. Test stack to 8,500 PSI , Frac perfs as proposed W/ 51 bbls. 15% HCL 37,415 # 100 MESH / 314,636 # 30/50 Brady/ 9,348 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 2257 PSI</p> <p>Shutdown: @ 80 BPM/6,260 PSI @ 60 BPM/5,000 PSI @ 40 BPM/4,450 PSI @ 20 BPM/3,300 PSI</p> <p>Pad ISIP: 2,962 PSI, FG- .87 Psi/Ft / 5 Min: 2,675 PSI</p> <p>Avg rate: 77.6 BPM Avg PSI: 6,145 Max rate: 82 BPM Max PSI: 7,549</p> <p>ISIP: 2,870 PSI FG .79 Psi/Ft</p> <p>FTR: 77,696 BBLS SIF: 350,551 # TOTAL SIF: 3,161,362 #</p>
1/16/2014 15:00	1/16/2014 17:00	2	COMPL	Other wireline operations	WLOTHR	<p>RU E&P WL for stage #10 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 15,475' Perforated Intervals: 15,206-15,206 / 15,264-15,266 / 15,324-15,326 / 15,384-15,386 / 15,444-15,446 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 6,000 psi. Line Speed 290 ft/min</p> <p>Used 381 bbls LTR Total 87,474 Bbls</p>
1/16/2014 17:00	1/16/2014 23:15	6.25	COMPL	Other operations	OTHR	Waiting to Frac
1/16/2014 23:15	1/17/2014 01:30	2.25	COMPL	Frac	STIM	<p>Frac Stage # 10 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 00 bbls. 15% HCL 24,777 # 100 MESH / 313,225 # 30/50 Brady/ 8,695 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/3,257 PSI</p> <p>Shutdown: @ 80 BPM/6,063 PSI @ 60 BPM/4,971 PSI @ 40 BPM/4,101 PSI @ 20 BPM/3,346 PSI</p> <p>Pad ISIP: 2,938 PSI / 5 Min: 2,554 PSI</p> <p>Avg rate: 75 BPM Avg PSI: 5,835 Max rate: 84 BPM Max PSI: 7,466</p> <p>ISIP: 2,818 PSI FG .78</p> <p>FTR: 8,695 BBLS SIF: 350,502 # TOTAL SIF: 3,511,864 #</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/17/2014 01:30	1/17/2014 03:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #11 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 15,175' Perforated Intervals: 15,146-15,144 / 15,086-15,084 / 15,026-15,024 / 15,966-15,964 / 15,906-15,904 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5,300 psi. Line Speed 290 ft/min Used 430 bbls LTR Total 97,029 Bbls
1/17/2014 03:30	1/17/2014 06:00	2.5				WSI, Awaiting frac ops on the #18H and #19H at report time

Report #: 13 Daily Operation: 1/17/2014 06:00 - 1/18/2014 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 028196
Days From Spud (days) 124	Days on Location (days) 13	End Depth (ftGRD) -26.5
End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>

Operations Summary

Frac Stages 11 thru 12
Perf Stages 12 thru 13

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 0.0 Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 0.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 115,311 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 115,311 bbls

TSIF: 4,215,857 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/17/2014 06:00	1/17/2014 10:30	4.5	COMPL	Other operations	OTHR	WSI, Awaiting frac ops on the #18 and #19H
1/17/2014 10:30	1/17/2014 12:30	2	COMPL	Frac	STIM	Frac Stage # 11 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 36 bbls. 15% HCL 37,643 # 100 MESH / 315,119 # 30/50 Brady/ 9,047 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 15 BPM/3,794 PSI Shutdown: @ 60 BPM/8,210 PSI @ 40 BPM/5,485 PSI @ 20 BPM/3,782 PSI Pad ISIP: 2,957 PSI FG .81 Psi/Ft / 5 Min: 2,475 PSI Avg rate: 79 BPM Avg PSI: 6,672 Max rate: 82 BPM Max PSI: 8,309 ISIP: 2,974 PSI FG .81 Psi/Ft. FTR: 106,419 BBLS SIF: 352,762 # TOTAL SIF: 3,864,626 #

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/17/2014 12:30	1/17/2014 14:30	2	COMPL	Other wireline operations	WLOTHR	RU E&P WL for stage #12 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 14,875' Perforated Intervals: 14,604-14,606 / 14,664-14,666 / 14,724-14,726 / 14,784-14,786 / 14,844-14,846 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 6,000 psi. Line Speed 290 ft/min Used 368 bbls LTR Total 106,419 Bbls
1/17/2014 14:30	1/17/2014 20:30	6	COMPL	Other operations	OTHR	WSI, Awaiting frac ops on the #19H
1/17/2014 20:30	1/17/2014 22:30	2	COMPL	Frac	STIM	Frac Stage # 12 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 0 bbls. 15% HCL 37,678 # 100 MESH / 313,553 # 30/50 Brady/ 8,486 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 15 BPM/ 3,253 PSI Shutdown: @ 80 BPM/6,475 PSI @ 60 BPM/5,460 PSI @ 40 BPM/4,276 PSI @ 20 BPM/3,462 PSI Pad ISIP: 2,876 PSI / 5 Min: 2,505 PSI Avg rate: 75 BPM Avg PSI: 5,871 Max rate: 81.0 BPM Max PSI: 7,416 ISIP: 2,805 PSI FG .78 FTR: 114,905 BBLS SIF: 351,231 # TOTAL SIF: 4,215,857 #
1/17/2014 22:30	1/18/2014 00:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #13 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 14,575' Perforated Intervals: 14,546-14,544 / 14,486-14,484 / 14,426-14,424 / 14,366-14,364 / 14,306-14,304 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5,700 psi. Line Speed 300 ft/min Used 406 bbls LTR Total 115,311 Bbls
1/18/2014 00:30	1/18/2014 06:00	5.5	COMPL	Other operations	OTHR	WSI, Awaiting frac ops on the #18H and #19H at report time

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 14 Daily Operation: 1/18/2014 06:00 - 1/19/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
125	14	-26.5			PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 13 thru 14
Perf Stages 14 thru 15

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 0.0 Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 4.0 Hrs _ Cum: 4.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 137,175 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 135,175 bbls

TSIF: 4,913,982 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/18/2014 06:00	1/18/2014 08:45	2.75	COMPL	Frac	STIM	<p>Frac Stage # 13 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 18 bbls. 15% HCL 36,314 # 100 MESH / 312,868 # 30/50 Brady/ 8,415 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,809 PSI</p> <p>Shutdown: @ 80 BPM/6,505 PSI @ 60 BPM/5,412 PSI @ 40 BPM/4,385 PSI @ 20 BPM/3,568 PSI</p> <p>Pad ISIP: 2,834 PSI / 5 Min: 2,456 PSI</p> <p>Avg rate: 81 BPM Avg PSI: 6,033 Max rate: 82 BPM Max PSI: 6,821</p> <p>ISIP: 4,737 PSI FG .77</p> <p>FTR: 123,726 BBLS SIF: 349,182 # TOTAL SIF: 4,565,039 #</p>
1/18/2014 08:45	1/18/2014 11:00	2.25	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #14 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 14,275' Perforated Intervals: 14,246-14,244 / 14,186-14,184 / 14,126-14,124 / 14,066-14,064 / 14,006-14,004 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5400 psi. Line Speed 300 ft/min</p> <p>Used 320 bbls LTR Total 124,046 Bbls</p>
1/18/2014 11:00	1/18/2014 15:15	4.25	COMPL	Other operations	OTHR	WSI, Awaiting frac ops on the #18 and #19H

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/18/2014 15:15	1/18/2014 18:00	2.75	COMPL	Frac	STIM	<p>Frac Stage # 14 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 43 bbls. 15% HCL 36,314 # 100 MESH / 312,629 # 30/50 Brady/ 9,811 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 4,040 PSI</p> <p>Shutdown: @ 80 BPM/6,630 PSI @ 60 BPM/5,466 PSI @ 40 BPM/4,506 PSI @ 20 BPM/3,526 PSI</p> <p>Pad ISIP: 2,782 PSI, FG .78 Psi/FT / 5 Min: 2,444 PSI</p> <p>Avg rate: 74.9 BPM Avg PSI: 6,170 Max rate: 81.6 BPM Max PSI: 8,050</p> <p>ISIP: 2,851 PSI FG .79</p> <p>FTR: 133,857 BBLS SIF: 348,943 # TOTAL SIF: 4,913,952 #</p> <p>SD on sweep after 100-Mesh, repair air leak on hydration Unit, DN 5-Min. Continue Frac //Cut sand on 1.5 ppg had sweep due psi, sweep csg, continue frac.</p>
1/18/2014 18:00	1/18/2014 19:30	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #15 of 35. RIH & pumped down w/Baker CFP , set CFP @ 13,975'</p> <p>Had a misfire during the attempt to fire the first perf gun., showing an open cuurent.POOH, made wireline rehead and run back in to perforate.</p> <p>Note: RIH with stage 15 guns @ 20:15 to set plug. Lost tension on plug fire, but didn't show on meter to fire. PUH to first set of perfs and didn't show to fire. Pumped back down 10' and PUH to stage perfs. Gun still didn't fire. POOH. On surface all checks on guns, drum and head showed correct amperages.</p> <p>Pump Down @ 18 bpm / 5400 psi. Line Speed 300 ft/min</p> <p>Used 385 bbls</p>
1/18/2014 19:30	1/19/2014 03:30	8	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #15. Perforated Intervals: 13,704-13,706 / 13,764-13,766 / 13,824-13,826 / 13,884-13,886 / 13,944-13,946 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 4,800 psi. Line Speed 300 ft/min</p> <p>Used 933 bbls LTR Total 135,175 Bbls</p> <p>Note: RIH with stage 15 guns @ 21:00 to bottom perf. Guns fired. PUH to second perf and guns failed again. Pulled out of hole and changed charge caps. Started back in with the third attempt and shot the lastt four guns at depth.</p>
1/19/2014 03:30	1/19/2014 06:00	2.5	COMPL	Frac	STIM	Frac Ops on stage 15 at report time

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 15 Daily Operation: 1/19/2014 06:00 - 1/20/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days) 126	Days on Location (days) 15	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 15 thru 17
Perf Stages 16 thru 18

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 0.0 Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 2.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 144,193 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 144,193 bbls

TSIF: 5,967,106 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/19/2014 06:00	1/19/2014 08:00	2	COMPL	Frac	STIM	<p>Frac Stage # 15 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 0 bbls. 15% HCL 37,020 # 100 MESH / 314,713 # 30/50 Brady/ 9,018 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,626 PSI</p> <p>Shutdown: @ 80 BPM/6,085 PSI @ 60 BPM/5,201 PSI @ 40 BPM/4,505 PSI @ 20 BPM/3,762 PSI</p> <p>Pad ISIP: 3,120 PSI / 5 Min: 2,617 PSI</p> <p>Avg rate: 76 BPM Avg PSI: 5,857 Max rate: 82 BPM Max PSI: 7,252</p> <p>ISIP: 2,665 PSI FG .76</p> <p>FTR: 144,193 BBLS SIF: 351,733 # TOTAL SIF: 5,265,715 #</p>
1/19/2014 08:00	1/19/2014 12:00	4	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #16 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 13,675' (Note: Guns missed fire, Pooh found bad switch, replaced) Rih & Perforated Intervals: 13,646-13,644 / 13,586-13,584 / 13,526-13,524 / 13,466-13,464 / 13,406-13,404 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 20 bpm / 6100 psi. Line Speed 300 ft/min</p> <p>Used 656 bbls LTR Total 144,849 Bbls</p>
1/19/2014 12:00	1/19/2014 14:30	2.5	COMPL	Other operations	OTHR	WSI, Awaiting frac ops on the #18 and #19H

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/19/2014 14:30	1/19/2014 16:30	2	COMPL	Frac	STIM	<p>Frac Stage # 16 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 38 bbls. 15% HCL 37,209 # 100 MESH / 314,102 # 30/50 Brady/ 8,918 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,766 PSI</p> <p>Shutdown: @ 80 BPM/5,915 PSI @ 60 BPM/4,845 PSI @ 40 BPM/4,060 PSI @ 20 BPM/3,400 PSI</p> <p>Pad ISIP: 2,888 / FG .79 Psi/ft PSI / 5 Min: 2,481PSI</p> <p>Avg rate: 80 BPM Avg PSI: 5,701 Max rate: 81 BPM Max PSI: 6,231</p> <p>ISIP: 2,889 PSI FG .80</p> <p>FTR: 153,767 BBLS SIF: 351,311 # TOTAL SIF: 5,617,026#</p>
1/19/2014 16:30	1/19/2014 18:30	2	COMPL	Other operations	OTHR	WSI, Awaited frac ops on the #18H
1/19/2014 18:30	1/19/2014 21:00	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #17 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 13,375 Perforated Intervals: 13,106-13,104 / 13,166-13,164 / 13,226-13,224 / 13,286-13,284 / 13,346-13,344 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5800 psi. Line Speed 296 ft/min</p> <p>Used 338 bbls LTR Total 154,105 Bbls</p>
1/19/2014 21:00	1/20/2014 01:00	4	COMPL	Other operations	OTHR	WSI, Awaited frac ops on the #19H
1/20/2014 01:00	1/20/2014 03:15	2.25	COMPL	Frac	STIM	<p>Frac Stage # 17 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 00 bbls. 15% HCL 37,614 # 100 MESH / 312,466 # 30/50 Brady/ 8699 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,739 PSI</p> <p>Shutdown: @ 80 BPM/5,813 PSI @ 60 BPM/4,979 PSI @ 40 BPM/4,294 PSI @ 20 BPM/3,671 PSI</p> <p>Pad ISIP: 3,080 PSI / 5 Min: 2,555 PSI</p> <p>Avg rate: 77 BPM Avg PSI: 5,855 Max rate: 81.8 BPM Max PSI: 7,165</p> <p>ISIP: 2,695 PSI FG .77</p> <p>FTR: 162,804 BBLS SIF: 350,080 # TOTAL SIF: 5,967,106 #</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/20/2014 03:15	1/20/2014 05:30	2.25	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #18 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 13,075' Perforated Intervals: 13,046-13,044 / 12,986-12,984 / 12,926-12,924 / 12,866-12,864 / 12,806-12,804 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5,600 psi. Line Speed 300 ft/min Used 327 bbls LTR Total 163,131 Bbls
1/20/2014 05:30	1/20/2014 06:00	0.5	COMPL	Other operations	OTHR	WSI,Awaiting frac ops on the #18H and #19H at report time.

Report #: 16 Daily Operation: 1/20/2014 06:00 - 1/21/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days) 127	Days on Location (days) 16	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 18 thru 19
Perf Stages 19 thru 20

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 2.5 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum:1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs_ Cum. 0.0 Hrs

FTR: 181,307 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 181,307 bbls

TSIF: 6,668,519 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/20/2014 06:00	1/20/2014 11:00	5	COMPL	Other operations	OTHR	WSI, Awaited frac ops on the #19H
1/20/2014 11:00	1/20/2014 13:00	2	COMPL	Frac	STIM	Frac Stage # 18 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 31 bbls. 15% HCL 37,849 # 100 MESH / 312,387 # 30/50 Brady/ 8,865 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 15 BPM/ 3,794 PSI Shutdown: @ 80 BPM/6,390 PSI @ 60 BPM/5,380 PSI @ 40 BPM/4,424 PSI @ 20 BPM/3,604 PSI Pad ISIP: 3,115 PSI / 5 Min: 2,610 PSI Avg rate: 80 BPM Avg PSI: 6,000 Max rate: 81 BPM Max PSI: 6,451 ISIP: 2,804 PSI FG .78 Psi/Ft FTR: 171,996 BBLS SIF: 350,236 # TOTAL SIF: 6,317,342 #

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/20/2014 13:00	1/20/2014 15:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #19 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 12,775' Perforated Intervals: 12,506-12,504 / 12,566-12,5654 / 12,626-12,624 / 12,686-12,684 / 12,746-12,744 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5,600 psi. Line Speed 300 ft/min Used 282 bbls LTR Total 172,278 Bbls
1/20/2014 15:00	1/20/2014 20:00	5	COMPL	Other operations	OTHR	WSI,Awaiting frac ops on the #18H and #19H.
1/20/2014 20:00	1/20/2014 22:30	2.5	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	PPS was down waiting on the E-Techs to arrive to replace some cables on the blender due to losing communication in the Data Van during stage 19 on the #19H.
1/20/2014 22:30	1/21/2014 00:30	2	COMPL	Frac	STIM	Frac Stage # 19 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 0 bbls. 15% HCL 37,912 # 100 MESH / 313,265 # 30/50 Brady/ 8,753 BBLs Slickwater fluid, down 5.5' #17 CSG Formation broke @ 16 BPM/ 3,852 PSI Shutdown: @ 80 BPM/6,283 PSI @ 60 BPM/5,266 PSI @ 40 BPM/4,399 PSI @ 20 BPM/3,631 PSI Pad ISIP: 3,041 PSI / 5 Min: 2,712 PSI Avg rate: 77 BPM Avg PSI: 5,648 Max rate: 81.0 BPM Max PSI: 7,397 ISIP: 2,848 PSI FG .79 FTR: 181,031 BBLs SIF: 351,177 # TOTAL SIF: 6,668,519 #
1/21/2014 00:30	1/21/2014 02:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #20 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 12,475' Perforated Intervals: 12,446-12,444 / 12,386-12,384 / 12,326-12,324 / 12,266-12,264 / 12,206-12,204 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5,600 psi. Line Speed 300 ft/min Used 276 bbls LTR Total 181,307 Bbls
1/21/2014 02:30	1/21/2014 06:00	3.5	COMPL	Other operations	OTHR	WSI,Awaiting frac ops on the #18H and #19H at report time.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 17 Daily Operation: 1/21/2014 06:00 - 1/22/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
128	17	-26.5			PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 20 thru 21
Perf Stages 21 thru 22

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 2.5 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 199,203 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 199,203 bbls

TSIF: 7,371,274 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/21/2014 06:00	1/21/2014 08:00	2	COMPL	Other operations	OTHR	WSI,Awaiting frac ops on the #18H and #19H
1/21/2014 08:00	1/21/2014 10:00	2	COMPL	Frac	STIM	<p>Frac Stage # 20 of 35. Test stack to 9,500 PSI , Frac perms as proposed W/ 18 bbls. 15% HCL 37,683 # 100 MESH / 314,090 # 30/50 Brady/ 8,702 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,914 PSI</p> <p>Shutdown: @ 80 BPM/5,728 PSI @ 60 BPM/4,877 PSI @ 40 BPM/4,128 PSI @ 20 BPM/3,557 PSI</p> <p>Pad ISIP: 3,024 PSI / 5 Min: 2,563 PSI</p> <p>Avg rate: 77 BPM Avg PSI: 5,587 Max rate: 81 BPM Max PSI: 6,151</p> <p>ISIP: 2,902 PSI FG .79</p> <p>FTR: 190,009 BBLS SIF: 351,773 # TOTAL SIF: 7,020,292 #</p>
1/21/2014 10:00	1/21/2014 12:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #21 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 12,175' Perforated Intervals: 12,146-12,144 / 12,086-12,084 / 12,026-12,024 / 11,966-11,964 / 11,906-11,04 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5,700 psi. Line Speed 300 ft/min</p> <p>Used 239 bbls LTR Total 190,248 Bbls</p>
1/21/2014 12:00	1/21/2014 17:00	5	COMPL	Other operations	OTHR	WSI,Awaiting frac ops on the #18H and #19H

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/21/2014 17:00	1/21/2014 18:45	1.75	COMPL	Frac	STIM	<p>Frac Stage # 21 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 44 bbls. 15% HCL</p> <p>37,683 # 100 MESH / 313,299 # 30/50 Brady/ 8,710 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,845 PSI</p> <p>Shutdown: @ 80 BPM/5,845 PSI @ 60 BPM/4,860 PSI @ 40 BPM/4,085 PSI @ 20 BPM/3,500 PSI</p> <p>Pad ISIP: 3,056 PSI- FG .82 Psi/Ft / 5 Min: 2,563 PSI</p> <p>Avg rate: 77 BPM Avg PSI: 5,524 Max rate: 81 BPM Max PSI: 5,990</p> <p>ISIP: 2,788 PSI FG .77</p> <p>FTR: 198,958 BBLS SIF: 350,982 # TOTAL SIF: 7,371,274 #</p>
1/21/2014 18:45	1/21/2014 20:30	1.75	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #22 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 11,875' Perforated Intervals: 11,846-11,844 / 11,786-11,784 / 11,726-11,724 / 11,666-11,664 / 11,606-11,604 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5,900 psi. Line Speed 300 ft/min</p> <p>Used 245 bbls LTR Total 199,203 Bbls</p>
1/21/2014 20:30	1/22/2014 04:30	8	COMPL	Other operations	OTHR	WSI,Awaiting frac ops on the #18H and #19H
1/22/2014 04:30	1/22/2014 06:00	1.5	COMPL	Frac	STIM	Frac ops on Stage 22 at report time.

Report #: 18 Daily Operation: 1/22/2014 06:00 - 1/23/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	
129	18	-26.5				

Operations Summary

Frac Stages 22 thru 23
Perf Stages 23 thru 24

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 2.5 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum:1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum. 0.0 Hrs

FTR: 217,113 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 217,113 bbls

TSIF: 8,072,845 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/22/2014 06:00	1/22/2014 06:30	0.5	COMPL	Frac	STIM	<p>Frac Stage # 22 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 44 bbls. 15% HCL 37,802 # 100 MESH / 313,719 # 30/50 Brady/ 8786 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 15 BPM/ 3,545 PSI</p> <p>Shutdown: @ 80 BPM/5,854 PSI @ 60 BPM/4,958 PSI @ 40 BPM/4,216 PSI @ 20 BPM/3,619 PSI</p> <p>Pad ISIP: 3,038 PSI- FG 0.0Psi/Ft / 5 Min: 2,625 PSI</p> <p>Avg rate: 79 BPM Avg PSI: 5623 Max rate: 81.3 BPM Max PSI: 7052</p> <p>ISIP: 2899 PSI FG .79</p> <p>FTR: 207,989 BBLS SIF: 351,521 # TOTAL SIF: 7,722,795 #</p>
1/22/2014 06:30	1/22/2014 08:00	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #23 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 11,570' Perforated Intervals: 11,544-11,546 / 11,484-11,486 / 11,424-11,426 / 11,364-11,366 / 11,304-11,306 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5500 psi. Line Speed 370 ft/min</p> <p>Used 192 bbls FTR Total 208,181 Bbls</p>
1/22/2014 08:00	1/22/2014 16:00	8	COMPL	Other operations	OTHR	WO frac ops on 18H & 19H
1/22/2014 16:00	1/22/2014 18:00	2	COMPL	Frac	STIM	<p>Frac Stage # 23 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 31 bbls. 15% HCL 37,398- # 100 MESH / 312,612 # 30/50 Brady/ 8705 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 20 BPM/ 3944 PSI</p> <p>Shutdown: @ 80 BPM/5,900 PSI @ 60 BPM/5,000 PSI @ 40 BPM/4,200 PSI @ 20 BPM/3,500 PSI</p> <p>Pad ISIP: 2,975 PSI / FG .80 Psi/Ft / 5 Min: 2,520 PSI</p> <p>Avg rate:78 BPM Avg PSI:5,484 Max rate: 80 BPM Max PSI: 6,981</p> <p>ISIP: 2,773 PSI FG .78 Psi/Ft</p> <p>FTR: 216,886 BBLS SIF: # 350,050 TOTAL SIF: 8,072,845 #</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/22/2014 18:00	1/22/2014 20:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #24 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 11,275' Perforated Intervals: 11,004-11,006 / 11,664-11,666 / 11,724-11,726 / 11,184-11,186 / 11,244-11,246 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5500 psi. Line Speed 300 ft/min Used 227 bbls FTR Total 217,113 Bbls
1/22/2014 20:00	1/23/2014 04:15	8.25	COMPL	Other operations	OTHR	WO frac ops on 18H & 19H
1/23/2014 04:15	1/23/2014 06:00	1.75	COMPL	Frac	STIM	Frac ops on Stage 24 at report time.

Report #: 19 Daily Operation: 1/23/2014 06:00 - 1/24/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	
130	19	-26.5				

Operations Summary

Frac Stages 24 thru 25
Perf Stages 25 thru 26

Held 1,500 psi on the intermediate casing. WO nearby drilling rig to run casing/cement

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum:1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum. 0.0 Hrs

FTR: 234,967 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 234,967 bbls

TSIF: 8,772,159 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/23/2014 06:00	1/23/2014 06:30	0.5	COMPL	Frac	STIM	Frac Stage # 24 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 31 bbls. 15% HCL 42,911- # 100 MESH / 305,136 # 30/50 Brady/ 8780 BBLs Slickwater fluid, down 5.5' #17 CSG Formation broke @ 20 BPM/ 3670 PSI Shutdown: @ 80 BPM/6008 PSI @ 60 BPM/4804 PSI @ 40 BPM/4004PSI @ 20 BPM/3364 PSI Pad ISIP: 2927 PSI /5 Min: 2584 PSI Avg rate:80.6 BPM Avg PSI: 5605 Max rate: 81 BPM Max PSI: 6374 ISIP: 2820 PSI FG .78Psi/Ft FTR: 225,893 BBLs SIF: # 348,047 TOTAL SIF: 8,420,892 #

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/23/2014 06:30	1/23/2014 08:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #25 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 10,975' Perforated Intervals: 10,944-10,946 / 10,844-10,886 / 10,824-10,826 / 10,764-10,766 / 10,704-10,706 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5400 psi. Line Speed 360 ft/min Used 164 bbls FTR Total 226,057 Bbls
1/23/2014 08:30	1/23/2014 13:30	5	COMPL	Other operations	OTHR	Waiting on Frac Ops
1/23/2014 13:30	1/23/2014 15:45	2.25	COMPL	Frac	STIM	Frac Stage # 25 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 29 bbls. 15% HCL 37,566 - # 100 MESH / 313,701 # 30/50 Brady/ 8768 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 20 BPM/ 3746 PSI Shutdown: @ 80 BPM/5723 PSI @ 60 BPM/4751 PSI @ 40 BPM/4063 PSI @ 20 BPM/3482 PSI Pad ISIP: 3136 PSI / FG: .83 / 5 Min: 2710 PSI Avg rate: 75 BPM Avg PSI: 5643 Max rate: 81 BPM Max PSI: 6469 ISIP: 2858 PSI FG .79 Psi/Ft FTR: 234,825 BBLS SIF: 351,267 # TOTAL SIF: 8,772,159 #
1/23/2014 15:45	1/23/2014 17:15	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #26 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 10,675' Perforated Intervals: 10,404'/10,406', 10,464'/10,466', 10524'/10,526', 10,584'/10,586', 10,644'/10,646', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5400 psi. Line Speed 350 ft/min Used 142 bbls FTR Total 234,967 Bbls
1/23/2014 17:15	1/24/2014 06:00	12.7 5	UNPLANNED	Other - Anything not listed above	U_OTR	WO nearby drilling rig to run casing/cement

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 20 Daily Operation: 1/24/2014 06:00 - 1/25/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 131	Days on Location (days) 20	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages ___ thru ___
Perf Stages ___ thru ___

Held 1,500 psi on the intermediate casing. WO nearby drilling rig to run casing/cement.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 234,967 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 234,967 bbls

TSIF: 8,772,159 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/24/2014 06:00	1/25/2014 06:00	24	UNPLANNED	Other - Anything not listed above	U_OTR	WO nearby drilling rig to run casing/cement

Report #: 21 Daily Operation: 1/25/2014 06:00 - 1/26/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 028196
Days From Spud (days) 132	Days on Location (days) 21	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages ___ thru ___
Perf Stages ___ thru ___

Held 1,500 psi on the intermediate casing. WO nearby drilling rig to run casing/cement.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 234,967 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 234,967 bbls

TSIF: 8,772,159 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/25/2014 06:00	1/26/2014 06:00	24	UNPLANNED	Other - Anything not listed above	U_OTR	WO nearby drilling rig to run casing/cement

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 22 Daily Operation: 1/26/2014 06:00 - 1/27/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
133	22	-26.5			PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 26 thru 27
Perf Stages 27 thru 28

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum: 1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs _ Cum: 0.0 Hrs

FTR: 252,540 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 252,540 bbls

TSIF: 9,475,500 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/26/2014 06:00	1/26/2014 12:00	6	UNPLANNED	Other - Anything not listed above	U_OTR	WO nearby drilling rig for cement to set up for 12 Hours.
1/26/2014 12:00	1/26/2014 15:00	3	COMPL	Other operations	OTHR	Waiting on Frac Ops.
1/26/2014 15:00	1/26/2014 17:15	2.25	COMPL	Frac	STIM	<p>Frac Stage # 26 of 35. Test stack to 9,500 PSI , Frac perms as proposed W/ 36' bbls. 15% HCL 37,767 - # 100 MESH / 313,136 # 30/50 Brady/ 8644 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 20 BPM/ 3,597 PSI</p> <p>Shutdown: @ 80 BPM/ 5360 PSI @ 60 BPM/ 4565 PSI @ 40 BPM/ 3680PSI @ 20 BPM/ 3540 PSI</p> <p>Pad ISIP: 2978 PSI / FG: .80 / 5 Min: 2455 PSI</p> <p>Avg rate: 78 BPM Avg PSI: 5366 Max rate: 81 BPM Max PSI: 6714</p> <p>ISIP: 2944 PSI FG .80 Psi/Ft</p> <p>FTR: 243,610 BBLS SIF: 350,898# TOTAL SIF: 9,123,057 #</p>
1/26/2014 17:15	1/26/2014 18:45	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #27 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 10,375' Perforated Intervals: 10,344'/10,346', 10,284'/10,286', 10224'/10,226', 10,164'/10,166', 10,104'/10,106', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5788 psi. Line Speed 300 ft/min</p> <p>Used 164 bbls FTR Total 243,774 Bbls</p>
1/26/2014 18:45	1/27/2014 02:15	7.5	COMPL	Other operations	OTHR	Waiting to frac

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/27/2014 02:15	1/27/2014 04:15	2	COMPL	Frac	STIM	<p>Frac Stage # 27 of 35. Test stack to 9,500 PSI , Frac perfs as proposed w/ 35 bbls. 15% HCL 38,155 - # 100 MESH / 314,288 # 30/50 Brady/ 8,636 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 20 BPM/ 3,470 PSI</p> <p>Shutdown: @ 80 BPM/ 5,259 PSI @ 60 BPM/ 4,610 PSI @ 40 BPM/ 3,941 PSI @ 20 BPM/ 3,462 PSI</p> <p>Pad ISIP: 3,071 PSI / FG .82 / 5 Min: 2,767 PSI</p> <p>Avg rate: 76 BPM Avg PSI: 5,431 Max rate: 82 BPM Max PSI: 6,107</p> <p>ISIP: 2,903 PSI FG .79 Psi/Ft</p> <p>FTR: 252,410 BBLS SIF: 352,443# TOTAL SIF: 9,475,500 #</p>
1/27/2014 04:15	1/27/2014 05:30	1.25	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #28 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 10,075' Perforated Intervals: 10,044'/10,046', 9,984'/9,986', 9,924'/9,926', 9,864'/9,866', 9,804'/9,806', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5,400 psi. Line Speed 300 ft/min</p> <p>Used 130 bbls FTR Total 252,540 Bbls</p>
1/27/2014 05:30	1/27/2014 06:00	0.5	COMPL	Other operations	OTHR	Waiting to frac

Report #: 23 Daily Operation: 1/27/2014 06:00 - 1/28/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196	
Days From Spud (days) 134	Days on Location (days) 23	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	PIONEER PUMPING SERVICES, <rigno>	

Operations Summary

Frac Stages 28 thru 30
Perf Stages 29 thru 30

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum:1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0.0 Hrs_ Cum. 0.0 Hrs

FTR: 279,854 bbls

RT: 0 bbls

CR: 0 bbls

LTR: 279,854 bbls

TSIF: 10,541,138 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/27/2014 06:00	1/27/2014 10:15	4.25	COMPL	Other operations	OTHR	Waiting to frac

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/27/2014 10:15	1/27/2014 12:30	2.25	COMPL	Frac	STIM	<p>Frac Stage # 28 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 37 bbls. 15% HCL 37,416 # 100 MESH / 314,201 # 30/50 Brady/ 8470 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 20 BPM/3483 PSI</p> <p>Shutdown: @ 80 BPM/ 5344 PSI @ 60 BPM/ 4573 PSI @ 40 BPM/3978 PSI @ 20 BPM/ 3483 PSI</p> <p>Pad ISIP 3119 PSI / FG :.82 / 5 Min: 2848 PSI</p> <p>Avg rate: 80 BPM Avg PSI: 5373 Max rate: 81 BPM Max PSI: 6017</p> <p>ISIP: 3059 PSI FG .82 Psi/Ft</p> <p>FTR: 261,011 BBLS SIF: 351,617# TOTAL SIF: 9,827,117 #</p>
1/27/2014 12:30	1/27/2014 14:00	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #29 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 9,778' Perforated Intervals: 9,504'/9,506', 9,564'/9,566', 9,624'/9,626', 9,684'/9,686', 9,744'/9,746', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5400 psi. Line Speed 350 ft/min</p> <p>Used 110 bbls FTR Total 261,121 Bbls</p>
1/27/2014 14:00	1/27/2014 14:00		COMPL	Other operations	OTHR	WO frac ops
1/27/2014 14:00	1/27/2014 16:00	2	COMPL	Frac	STIM	<p>Frac Stage # 29 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 37 bbls. 15% HCL 37,782 # 100 MESH / 314,184 # 30/50 Brady/ 8795 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 20 BPM/3710 PSI</p> <p>Shutdown: @ 80 BPM/ 5618 PSI @ 60 BPM/ 4780 PSI @ 40 BPM/4088 PSI @ 20 BPM/ 3464 PSI</p> <p>Pad ISIP: 3113 PSI / FG :.82 / 5 Min: 2850 PSI</p> <p>Avg rate: 80 BPM Avg PSI: 5676 Max rate: 81 BPM Max PSI: 6013</p> <p>ISIP: 3044 PSI FG .81 Psi/Ft</p> <p>FTR: 266,917 BBLS SIF: 352,966# TOTAL SIF: 10,188,083 #</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/27/2014 16:00	1/27/2014 18:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #30 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 9,475' Perforated Intervals: 9,204'/9,206', 9,264'/9,266', 9,324'/9,326', 9,384'/9,386', 9,444'/9,446', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5400 psi. Line Speed 350 ft/min Used 107 bbls FTR Total 261,121 Bbls
1/27/2014 18:00	1/28/2014 02:30	8.5	COMPL	Other operations	OTHR	WO frac ops
1/28/2014 02:30	1/28/2014 05:30	3	COMPL	Frac	STIM	Frac Stage # 30 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 37 bbls. 15% HCL 36,304 # 100 MESH / 316,751 # 30/50 Brady/ 9,830 BBLs Slickwater fluid, down 5.5' #17 CSG Formation broke @ 20 BPM/3,532 PSI Shutdown: @ 80 BPM/ 6,116 PSI @ 60 BPM/ 5,082 PSI @ 40 BPM/ 4,213 PSI @ 20 BPM/ 3,558 PSI Pad ISIP: 3,176 PSI / FG: .83 / 5 Min: 2,777 PSI Avg rate: 78 BPM Avg PSI: 5,162 Max rate: 81 BPM Max PSI: 6,698 ISIP: 3,399 PSI FG .86 Psi/Ft FTR: 271,007 BBLs SIF: 353,055# TOTAL SIF: 10,541,138 #
1/28/2014 05:30	1/28/2014 06:00	0.5	COMPL	Other operations	OTHR	P/P Stage 31 at Report Time

Report #: 24 Daily Operation: 1/28/2014 06:00 - 1/29/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, <rigno>	
135	24	-26.5				

Operations Summary

Frac Stages 31 thru 33
Perf Stages 31 thru 33

Held 1,500 psi on the intermediate casing.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum:1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 3.0 Hrs _ Cum. 3.0 Hrs

FTR: 305,721 bbls

RT: 0 bbls

CR: 0 bbls

LTR:305,721 bbls

TSIF: 11,594,424 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/28/2014 06:00	1/28/2014 09:00	3	COMPL	Other operations	OTHR	WO frac ops

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/28/2014 09:00	1/28/2014 11:00	2	UNPLANNED	Other - Anything not listed above	U_OTR	WO new slobber lines and lube pump from SPC due to pump and lines froze
1/28/2014 11:00	1/28/2014 13:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #31 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 9,175' Perforated Intervals: 9,144'/9,146', 9,084'/9,086', 9,024'/9,026', 8,964'/8,966', 8,904'/8,906', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 3575 psi. Line Speed 350 ft/min</p> <p>Used 84 bbls FTR Total 279,938 Bbls</p>
1/28/2014 13:00	1/28/2014 15:00	2	COMPL	Frac	STIM	<p>Frac Stage # 31 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 39 bbls. 15% HCL 37,598 # 100 MESH / 313,082 # 30/50 Brady/ 8578 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 20 BPM/3669 PSI</p> <p>Shutdown: @ 80 BPM/ 5400 PSI @ 60 BPM/ 4640 PSI @ 40 BPM/ 4000 PSI @ 20 BPM/ 3480 PSI</p> <p>Pad ISIP: 3167 PSI / FG: .83 / 5 Min: 2850 PSI</p> <p>Avg rate: 75 BPM Avg PSI: 5255 Max rate: 80 BPM Max PSI: 5550</p> <p>ISIP: 3102 PSI FG ,82 Psi/Ft</p> <p>FTR: 279,938 BBLS SIF: 350,680 # TOTAL SIF: 10,891,818 #</p>
1/28/2014 15:00	1/28/2014 17:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU E&P WL for stage #32 of 35. RIH & pumped down w/Baker CFP & 5 - 3-1/8" guns, set CFP @ 8,882' Perforated Intervals: 8604'/8606', 8664'/8666', 8724'/8726', 8784'/8786', 8844'/8846', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 18 bpm / 5000 psi. Line Speed 350 ft/min</p> <p>Used 59 bbls FTR Total 288,575 Bbls</p>
1/28/2014 17:00	1/28/2014 19:00	2	COMPL	Frac	STIM	<p>Frac Stage # 32 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 39 bbls. 15% HCL 37,667 # 100 MESH / 313,171 # 30/50 Brady/ 8470 BBLS Slickwater fluid, down 5.5' #17 CSG</p> <p>Formation broke @ 20 BPM/ 3715 PSI</p> <p>Shutdown: @ 80 BPM/ 5537 PSI @ 60 BPM/ 4580 PSI @ 40 BPM/ 3950 PSI @ 20 BPM/ 3500 PSI</p> <p>Pad ISIP: 3186 PSI / FG: .83 / 5 Min: 2805 PSI</p> <p>Avg rate: 78 BPM Avg PSI: 5220 Max rate: 84 BPM Max PSI: 5424</p> <p>ISIP: 3305 PSI FG ,85 Psi/Ft</p> <p>FTR: 297,045 BBLS SIF: 350,838 # TOTAL SIF: 11,242,656 #</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/28/2014 19:00	1/28/2014 22:00	3	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #33 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 8,575' Perforated Intervals: 8,304'/8,306', 8,364'/8,366', 8,424'/8,426', 8,484'/8,486', 8,544'/8,546', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 18 bpm / 5000 psi. Line Speed 350 ft/min Used 53 bbls FTR Total 297,098 Bbls
1/28/2014 22:00	1/29/2014 00:00	2	COMPL	Frac	STIM	Frac Stage # 33 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 25 bbls. 15% HCL 37,648# 100 MESH / 314,090 # 30/50 Brady/ 8470 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 20 BPM/ 3712 PSI Shutdown: @ 80 BPM/ 5665 PSI @ 60 BPM/ 4756 PSI @ 40 BPM/4,050 PSI @ 20 BPM/ 3,537 PSI Pad ISIP: 3,484 PSI / FG: .87 / 5 Min: 2,990 PSI Avg rate: 80 BPM Avg PSI: 5,073 Max rate: 83 BPM Max PSI: 7,611 ISIP: 3,340 PSI FG .85 Psi/Ft FTR: 305,721 BBLS SIF: 351,768 # TOTAL SIF: 11,594,424 #
1/29/2014 00:00	1/29/2014 06:00	6	COMPL	Other operations	OTHR	Well Shut in, Waiting on SPI make repairs on Glycol Pump.

Report #: 25 Daily Operation: 1/29/2014 06:00 - 1/30/2014 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)
136	25	-26.5
End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig
		PIONEER PUMPING SERVICES, <rigno>

Operations Summary

Frac Stages 34 Thru 35
Perf Stages 34 Thru 35

SET CBP @ 6,420'

Held 1,500 psi on the intermediate casing. SWI ,RDMO Location. Waiting on Drill Out Ops.

Remarks

PPS Downtime: 0.0 Hrs _ Cum: 2.05Hrs
Select Water Transf Down Time: 0.0 Hrs _ Cum:1.25 Hrs
E&P Wireline Down Time: 0.0 Hrs _ Cum: 6.0 Hrs
RSI Downtime: 0 Hrs_ Cum. 3.0 Hrs

FTR: 319,108 bbls

RT: 0 bbls

CR: 0 bbls

LTR:319,108 bbls

TSIF: 12,133,094 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/29/2014 06:00	1/29/2014 08:30	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #34 of 35. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 8,275' Perforated Intervals: 8,004'/8,006', 8,064'/8,066', 8,124'/8,126', 8,184'/8,186', 8,244'/8,246', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 14 bpm / 4,600 psi. Line Speed 300 ft/min Used 33 bbls FTR Total 305,754 Bbls
1/29/2014 08:30	1/29/2014 12:00	3.5	COMPL	Frac	STIM	Frac Stage # 34 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 47 bbls. 15% HCL 28548# 100 MESH / 307,392# 30/50 Brady/ 8150 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 20 BPM/ 3,537 PSI Shutdown: @ 80 BPM/ 5,399 PSI @ 60 BPM/ 4,519 PSI @ 40 BPM/ 3,894 PSI @ 20 BPM/ 3,409 PSI Pad ISIP: 3,109 PSI / FG: .82 / 5 Min: 2,790 PSI Avg rate: 75.9 BPM Avg PSI: 5,087 Max rate: 80 BPM Max PSI: 5,365 ISIP: 3,136 PSI FG .83 Psi/Ft FTR: 313,904 BBLS SIF: 335,940 # TOTAL SIF: 11,930,364 #
1/29/2014 12:00	1/29/2014 13:00	1	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #35 of 35. RIH & pumped down w/Baker CFP & 3 – 3-1/8" guns, set CFP @ 7,980' Perforated Intervals: 7,824'/7,826', 7,884'/7,886', 7,944'/7,946', w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL Pump Down @ 12 bpm / 3,800 psi. Line Speed 300 ft/min Used 11 bbls FTR Total 313,915 Bbls
1/29/2014 13:00	1/29/2014 17:30	4.5	COMPL	Other operations	OTHR	Waiting on frac ops on #18.
1/29/2014 17:30	1/29/2014 19:00	1.5	COMPL	Frac	STIM	Frac Stage # 35 of 35. Test stack to 9,500 PSI , Frac perfs as proposed W/ 47 bbls. 15% HCL 18,899# 100 MESH / 183,831# 30/50 Brady/ 5193 BBLS Slickwater fluid, down 5.5' #17 CSG Formation broke @ 20 BPM/ 4364 PSI Shutdown: @ 80 BPM/ 7056 PSI @ 60 BPM/ 5365 PSI @ 40 BPM/ 4285 PSI @ 20 BPM/ 2647 PSI Pad ISIP: 3083 PSI / FG: .47 / 5 Min: 2647 PSI Avg rate: 67 BPM Avg PSI: 5107 Max rate: 75 BPM Max PSI: 6166 ISIP: 3,191 PSI FG .47 Psi/Ft FTR: 319,108 BBLS SIF: 202,730 # TOTAL SIF: 12,133,094 #

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
1/29/2014 19:00	1/29/2014 19:45	0.75	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL . RIH w/Baker CBP , set CBP @ 6,420' . Perform a negative test POOH, RD WL FTR Total 319,108 Bbls
1/29/2014 19:45	1/30/2014 06:00	10.2 5	MOBILIZATION	RDMO	RDMO	SWI ,RDMO Location. Waiting on Drill Out Ops.

Report #: 26 Daily Operation: 2/17/2014 06:00 - 2/18/2014 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 028196
Days From Spud (days) 155	Days on Location (days) 26	End Depth (ftGRD) -26.5
End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig ENERGY SERVICE, #240

Operations Summary

MIRU ESCO WOR #240, Set pipe Racks, Load with 2.3/8 & 2.7/8 work string, NU Stack RU Flowlines. Function test Pipe Rams, Test Good, Test Blind Rams Against chokes to 3K, Test Good. PU 2.3/8 PH WS. Drill BP and CFP's #34, #33.

Remarks

Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Vision Oil Tools: 0.0 Hrs Cum: 0.0 Hrs
Exclusive Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Warrior Flowback: 0.0 Hrs Cum: 0.0 Hrs
Voyager: 0.0 Hrs Cum: 0.0 Hrs

FTR: 319,108 bbls

RT: 841 bbls

CR: 841 bbls

LTR: 318,267 bbls

TSIF: 12,133,094 lbs

Frac Tanks # 744 & #705 - Storage for Oil from Drill-out on Well 17H = 000 bbls est

Roll Offs on loc= 11 Boxes

4 boxes used on 19H

4 boxes used on 18H

1 RT250384 in use

8 Full (RT250129, 178, 187, 273, 342, 450, 338, 445).

2 Empty (RT250017, 300).

Pick up BHA follows

	OD	ID	Length
Cross over sub	3.11/16	X 1.3/4	1.38
R Nipple	2.7/8	X 1.1/2	.67
2.3/8 Float	3.1/8	X 1.1/2	1.50
2.3/8 Float	3.1/8	X 1.3/4	1.50
Bit sub	3.11/16	X 1.1/8	1.39
Bit SN 1328346	4.3/4	X	.50
		Total BHA	6.94

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/17/2014 06:00	2/17/2014 11:15	5.25	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Hold rig move Safety Meeting. MIRU ESCO Rig #240. Set catwalk, pipe racks, load pipe on racks & set other equipment for drill-out operation.
2/17/2014 11:15	2/17/2014 13:15	2	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	RU BOP & Hydril. Set rig floor & control panel up high. RU Flowlines , Function test Pipe Rams , Test Good , Test Blind Rams Against chokes to 3K , Test Good

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/17/2014 13:15	2/17/2014 13:45	0.5	BHA	BHA HANDLING	BHA	MU BHA--4 3/4" HA-2G bit ser. # 1328346, bit sub(ser # V-5082) ID=1 1/8" , OD=3 11/16", 1.50' , double float(#1 VW2202 1 1/8" ID, 3 1/8" OD. #2, VW2398, ID 1 3/4", OD 3 1/8", Both have 1" flappers) 1 jt 2 3/8" PH-6 tubing, R- nipple, ID 1 1/2", OD 2 7/8", 67' long, x/o VW 1267 1 3/4" ID, 3 11/16" OD, 1.38' long.. Total length of BHA 6,94'.
2/17/2014 13:45	2/17/2014 14:30	0.75	COMPL	Tbg related operations	TUBING	RIH in Well with 2.3/8 PH-6 workstring to 1,469' with 50 Jnts ,
2/17/2014 14:30	2/17/2014 18:00	3.5	COMPL	Other operations	OTHR	Shut down for Safety reasons to let Production finish hook up on 18H.
2/17/2014 18:00	2/18/2014 00:00	6	COMPL	Milling plugs	MILL	Continue TIH to tag bridge plug @ 6,430 with 218 jnts. RU swivel and break circulation. Drill plug in 23 min. Pump in 3.1 bpm @ 350 psi, wellhead out 3.0 bpm @ 160 psi.
2/18/2014 00:00	2/18/2014 02:30	2.5	COMPL	Milling plugs	MILL	Washed down to top of CFP #34 @ 7,990' with 271 jnts. Drill plug in 23 min. Pump in 3.0 bpm @ 1,500 psi, wellhead out 3.5 bpm @ 200 psi.
2/18/2014 02:30	2/18/2014 05:30	3	COMPL	Milling plugs	MILL	Washed down to top of CFP #33 @ 8,265' with 281 jnts. Pump 10 bbl sweep. Drill plug in 36 min. Pump in 3.0 bpm @ 1,500 psi, wellhead out 3.5 bpm @ 250 psi.
2/18/2014 05:30	2/18/2014 06:00	0.5	COMPL	Milling plugs	MILL	Washing down to CFP #32 at report time.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 27 Daily Operation: 2/18/2014 06:00 - 2/19/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
156	27	-26.5			ENERGY SERVICE, #240	

Operations Summary

Drill CFP's # 32, 31, 30, 29
POOH to kill well due to pressure decrease.
Pump 10# Brine
TIH to tag plug #28
Drill CFP #28

Remarks

Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Vision Oil Tools: 0.0 Hrs Cum: 0.0 Hrs
Exclusive Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Warrior Flowback: 0.0 Hrs Cum: 0.0 Hrs
Voyager: 0.0 Hrs Cum: 0.0 Hrs

FTR: 319,108 bbls

RT: 714 bbls

CR: 1555 bbls

LTR: 317,553 bbls

TSIF: 12,133,094 lbs

Frac Tanks # 744 & #705 - Storage for Oil from Drill-out on Well 17H = 000 bbls est

Roll Offs on loc= 13 Boxes

4 boxes used on 19H

4 boxes used on 18H

1 box used on 17H

1 RT250013 in use

8 Full (RT250129, 178, 187, 273, 342, 450, 338, 445).

1 Empty (RT250300). 2 other

Pick up BHA follows

	OD	ID	Length
Cross over sub	3.11/16	X 1.3/4	1.38
R Nipple	2.7/8	X 1.1/2	.67
2.3/8 Float	3.1/8	X 1.1/2	1.50
2.3/8 Float	3.1/8	X 1.3/4	1.50
Bit sub	3.11/16	X 1.1/8	1.39
Bit SN 1328346	4.3/4	X	.50
Total BHA			6.94

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/18/2014 06:00	2/18/2014 08:00	2	COMPL	Milling plugs	MILL	Washed down to top of CFP #32 @ 8,581' with 291 jnts. Pump10 bbl sweep. Drill plug in 32 min. Pump in 3.0 bpm @ 1,000 psi, wellhead out 3.5 bpm @ 150 psi.
2/18/2014 08:00	2/18/2014 10:30	2.5	COMPL	Milling plugs	MILL	Washed down to top of CFP #31 @ 8,872' with 302 jnts. Pump10 bbl sweep. Drill plug in 25 min. Pump in 3.4 bpm @ 1,000 psi, wellhead out 3.6 bpm @ 195 psi.
2/18/2014 10:30	2/18/2014 13:00	2.5	COMPL	Milling plugs	MILL	Washed down to top of CFP #30 @ 9,165' with 312 jnts. Pump10 bbl sweep. Drill plug in 27 min. Pump in 3.5 bpm @ 1,100 psi, wellhead out 4.4 bpm @ 195 psi.
2/18/2014 13:00	2/18/2014 15:30	2.5	COMPL	Milling plugs	MILL	Washed down to top of CFP #29 @ 9,486' with 322 jnts. Pump10 bbl sweep. Drill plug in 30 min. Pump in 3.5 bpm @ 1,200 psi, wellhead out 4.0 bpm @ 50 psi.
2/18/2014 15:30	2/18/2014 18:00	2.5	CIRC	CIRCULATE	CIRC	Start washing down to 9,555' with jnt # 324. Pressure on casing dropped from 50 psi to 20 psi. Returns 2.0 BPM, annular velocity 112 ft/min, Increase pump rate to 4.5/1,460 psi/Returns 5 BPM/60 psi, Pump 10 bbl 80 visc sweep to surface. Circ well to clean annulus.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/18/2014 18:00	2/18/2014 20:00	2	COMPL	CIRCULATE	CIRC	Pressure didn't change and sand volume increased. Sent a 20 bbl sweep an pumped to surface. Pumping 4.5 bpm in and getting 4.5 bpm back. Pump pressure at 1600 psi and wellhead at 100 psi.
2/18/2014 20:00	2/19/2014 01:00	5	TRIP OUT HOLE	TOOH	TOOH	RD swivel and lay down 20 jnts and stand back 9 stands to 8,355' with 284 jnts in hole. Pump 50 bbls down tubing and 150 bbls down casing to kill well. ISP 300 casing. Monitor for one hour. Casing pressure at 175 psi. TIH to try to drill again.
2/19/2014 01:00	2/19/2014 04:30	3.5	COMPL	Milling plugs	MILL	Washed down to top of CFP #28 @ 9,784' with 332 jnts. Pump10 bbl sweep. Drill plug in 40 min. Pump in 4.0 bpm @ 1,500 psi, wellhead out 4.5 bpm @ 60 psi.
2/19/2014 04:30	2/19/2014 06:00	1.5	COMPL	CIRCULATE	CIRC	Washed down to 9,840' with 334 jnts and circ sweep. . Pump in 4.0 bpm @ 1,500 psi, wellhead out 4.5 bpm @ 60 psi.

Report #: 28 Daily Operation: 2/19/2014 06:00 - 2/20/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig ENERGY SERVICE, #240		
157	28	-26.5					

Operations Summary

Drill CFP # 27, 26, 25, 24, 23, 22, 21 & 20. Circulating bottoms up @ report time.

Remarks

Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Vision Oil Tools: 0.0 Hrs Cum: 0.0 Hrs
Exclusive Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Warrior Flowback: 0.0 Hrs Cum: 0.0 Hrs
Voyager: 0.0 Hrs Cum: 0.0 Hrs

FTR: 319,108 bbls

RT: 659 bbls

CR: 2,214 bbls

LTR: 316,894 bbls

TSIF: 12,133,094 lbs

2-19-2014 Transferred 353 bbls oil from holding tanks to University 10-1 #18H Battery , Red Aldridge Orders ,

Roll Offs on loc= 14 Boxes

4 boxes used on 19H

4 boxes used on 18H

2 box used on 17H

1 RT250300 in use

10 Full (RT250017, 129, 178, 187, 273, 337, 343, 384, 450, 445).

3 Empty (RT250018, 173, 229).

Pick up BHA follows

	OD		ID	Length
Cross over sub	3.11/16	X	1.3/4	1.38
R Nipple	2.7/8	X	1.1/2	.67
2.3/8 Float	3.1/8	X	1.1/2	1.50
2.3/8 Float	3.1/8	X	1.3/4	1.50
Bit sub	3.11/16	X	1.1/8	1.39
Bit SN 1328346	4.3/4	X		.50
Total BHA				6.94

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/19/2014 06:00	2/19/2014 07:00	1	COMPL	Milling plugs	MILL	Circulate for 20 mins past crew change. WHP 90-100 psi. 4 bpm pump/4.7 bpm returns. Light sand to clean returns. Confer with office. Wash in hole slowly to CFP # 27
2/19/2014 07:00	2/19/2014 08:00	1	COMPL	Milling plugs	MILL	Jt 341 down. 10,056' 1jt above CFP # 27. Circulate 10 bbls gel pill. Complete BU before picking up jt #342 to drill plug. 4 bpm 1400 psi pump/ 4.5 bpm 95 psi whp.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/19/2014 08:00	2/19/2014 09:00	1	COMPL	Milling plugs	MILL	Tag CFP # 27 at 10,080' , jt # 342. Drill 54 Mins. 4bpm @ 1400psi/ 4.4 bpm @ 90 psi whp. Send 5 bbl gel sweep. 20 bbls after. Then wash to CFP #26
2/19/2014 09:00	2/19/2014 10:45	1.75	COMPL	Milling plugs	MILL	Wash to jt # 351 down 10,351'. Circulate 10 bbl gel pill to surface.
2/19/2014 10:45	2/19/2014 11:30	0.75	COMPL	Milling plugs	MILL	Tag CFP # 26 at 10,384' , jt # 352. Drill 25 Mins. 4bpm @ 1500psi/ 4.5 bpm @ 90 psi whp. Send 5 bbl gel sweep. 20 bbls after sweep in tubing Then wash to CFP #25
2/19/2014 11:30	2/19/2014 13:00	1.5	COMPL	Milling plugs	MILL	Wash to jt #361 down 10,644'. Circulate Bu with 10 bbl gel pill.
2/19/2014 13:00	2/19/2014 13:45	0.75	COMPL	Milling plugs	MILL	Tag CFP # 25 at 10,682' , jt # 363. Drill 32 Mins. 4bpm @ 1500psi/ 5 bpm @ 90 psi whp. Send 5 bbl gel sweep. 20 bbls after sweep in tubing Then wash to CFP #24
2/19/2014 13:45	2/19/2014 15:30	1.75	COMPL	Milling plugs	MILL	Wash down to CFP #24 1 jt above at jt #372 10,967' . Circulate 10 bbl sweep bottoms up.
2/19/2014 15:30	2/19/2014 16:30	1	COMPL	Milling plugs	MILL	Tag CFP # 24 at 10,982' , jt # 373. Drill 49 Mins. 4bpm @ 1600psi/ 4.9 bpm @ 90 psi whp. Send 5 bbl gel sweep. 20 bbls after sweep in tubing Then wash to CFP #24
2/19/2014 16:30	2/19/2014 18:30	2	COMPL	Milling plugs	MILL	Wash down to jt # 382 at 11,263' . 1 jt above CFP # 23. Circulate 10 bbl gel sweep. Bottoms up. 4 bpm at 1500 psi/4.5-5 bpm returns at 80-90 psi whp.
2/19/2014 18:30	2/19/2014 19:45	1.25	COMPL	Milling plugs	MILL	Tag & drill Plug # 23 @ 11,285 on jt #383. Drill plug in 19 min. Pump 5 bbl sweep Obtain bottoms up. Pumping 4.0 bpm @ 1,600 psi in, returns 4.9 bpm @ 60 psi whp. Hold Safety Meeting w/ all personell on evening shift.
2/19/2014 19:45	2/19/2014 22:15	2.5	COMPL	Milling plugs	MILL	Wash down & tag Plug #22 on jt # 393 @ 11,580'. Pump 20 bbl sweep to bottoms up plus 20 mins. Drill plug in 28 min. Pump 5 bbl sweep to bottoms up Pumping 3.9 bpm @ 1,700 psi in & 4.9 bpm @ 100 psi whp. While circ. got an annulus increase to 250 psi. Light sand in returns.
2/19/2014 22:15	2/20/2014 01:15	3	COMPL	Milling plugs	MILL	Wash down & tag Plug #21 on jt # 403 @ 11,884'. Pump 20 bbl sweep to bottoms.. Drill plug in 34 min. Pump 5 bbl sweep to bottoms up Pumping 3.5 bpm @ 1,500 psi in & 4.5 bpm @ 210 psi whp. Light sand in returns.
2/20/2014 01:15	2/20/2014 04:30	3.25	COMPL	Milling plugs	MILL	Wash down & tag Plug #20 on jt # 413 @ 12,185'. Pump 20 bbl sweep to bottoms up. Drill plug in 27 min. Pump 5 bbl sweep to bottoms up Pumping 3.5 bpm @ 1,700 psi in & 4.5 bpm @ 190 psi whp. Light sand in returns.
2/20/2014 04:30	2/20/2014 06:00	1.5	COMPL	Milling plugs	MILL	Wash down to plug # 19 & circ bottoms up @ report time. Pumping 3.5 bpm, 1,700 psi in--4.5 bpm, 190 psi out. Light sand in returns.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 29 Daily Operation: 2/20/2014 06:00 - 2/21/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
158	29	-26.5			ENERGY SERVICE, #240	

Operations Summary

Drill plugs # 19 thru 11=9 total plugs. Circ on top of #10.

Remarks

Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Vision Oil Tools: 0.0 Hrs Cum: 0.0 Hrs
Exclusive Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Warrior Flowback: 0.0 Hrs Cum: 0.0 Hrs
Voyager: 0.0 Hrs Cum: 0.0 Hrs

FTR: 319,108 bbls

RT: 659 bbls

CR: 1,596 bbls

LTR: 317,512 bbls

TSIF: 12,133,094 lbs

2-19-2014 Transferred 353 bbls oil from holding tanks to University 10-1 #18H Battery , Red Aldridge Orders ,

Roll Offs on loc= 14 Boxes

4 boxes used on 19H

4 boxes used on 18H

2 box used on 17H

1 RT250300 in use

10 Full (RT250017, 129, 178, 187, 273, 337, 343, 384, 450, 445).

3 Empty (RT250018, 173, 229).

Pick up BHA follows

	OD	ID	Length
Cross over sub	3.11/16	X 1.3/4	1.38
R Nipple	2.7/8	X 1.1/2	.67
2.3/8 Float	3.1/8	X 1.1/2	1.50
2.3/8 Float	3.1/8	X 1.3/4	1.50
Bit sub	3.11/16	X 1.1/8	1.39
Bit SN 1328346	4.3/4	X	.50
Total BHA			6.94

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/20/2014 06:00	2/20/2014 07:00	1	COMPL	Milling plugs	MILL	Tag CFP # 19 at 12,490' , jt # 423. Drill 29 Mins. 3.5 bpm @ 1800psi/ 4.9 bpm @ 190 psi whp. Send 5 bbl gel sweep. 20 bbls after sweep in tubing Then wash to CFP # 18.
2/20/2014 07:00	2/20/2014 08:45	1.75	COMPL	Milling plugs	MILL	Wash to CFP # 18. 3.5 bpm 1600-1800 psi// 4 bpm returns at 190 psi whp. Send 10 bbl sweep on jt 431. 12,758' . 3.5 bpm 1600 psi pump//4 bpm 170 psi returns. Circulate bottoms up.
2/20/2014 08:45	2/20/2014 09:45	1	COMPL	Milling plugs	MILL	Tag CFP # 18 at 12,785' jt # 432 . Drill 41 mins. 3.5 bpm @ 1700 psi. Return 3.9 bpm @ 160 psi. Send 5 bbl gell pill and chase with 20 bbls water. Wash to CFP # 17.
2/20/2014 09:45	2/20/2014 12:45	3	COMPL	Milling plugs	MILL	Wash to CFP # 17. Stop 1 jt above at 13,069' jt # 441. Circulate bottoms up with 10 bbl gel sweep at 3.5 bpm @ 1800 psi. Return 4 bpm @ 190 psi.
2/20/2014 12:45	2/20/2014 13:30	0.75	COMPL	Milling plugs	MILL	Tag CFP # 17 at 13,090' jt # 442 . Drill 30 mins. 3.5 bpm @ 1850 psi. Return 4.1 bpm @ 140 psi. Send 5 bbl gell pill and chase with 20 bbls water. Wash to CFP # 16.
2/20/2014 13:30	2/20/2014 16:00	2.5	COMPL	Milling plugs	MILL	Wash to CFP # 16. Stop 1 jt above at 13,348'. Circulate bottoms up with 10 bbl gel sweep at 3.5 bpm @ 1800 psi. Return 4 bpm @ 150 psi.
2/20/2014 16:00	2/20/2014 17:00	1	COMPL	Milling plugs	MILL	Tag CFP # 16 at 13,390' jt # 452 . Drill 46 mins. 3.5 bpm @ 1900 psi. Return 4. bpm @ 160 psi. Send 5 bbl gell pill and chase with 20 bbls water. Wash to CFP # 15.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/20/2014 17:00	2/20/2014 19:00	2	COMPL	Milling plugs	MILL	Wash to CFP # 15 w/461 jts, 3.5 bpm @ 1800 psi pump// 4.2 bpm @ 160 psi whp. Circulate 10 bbl gel sweep 1 jt above plug. Attempt to tag #15 @ 13,685'. Seems to be pushing plug down.. Cont in hole. Light to moderatet sand in returns.
2/20/2014 19:00	2/20/2014 21:30	2.5	COMPL	Milling plugs	MILL	Wash down to CFP # 14 w/471 jts, 3.5 bpm @ 1600 psi pump// 4.1 bpm @ 110 psi whp. Will circulate 10 bbl gel sweep 1 jt above plug. Tag & drill plug #14 @ 13,985' in 26 min. Pump15 bbl sweep to surface due to this driil was for 2 plugs. Light sand in returns.
2/20/2014 21:30	2/21/2014 00:00	2.5	COMPL	Milling plugs	MILL	Wash down to CFP # 13 w/481 jts, 3.5 bpm @ 1600 psi pump// 4.1 bpm @ 105 psi whp. Will circulate 10 bbl gel sweep 1 jt above plug. Tag & drill plug #13 @ 14,285' in 24 min. Light sand in returns.
2/21/2014 00:00	2/21/2014 02:30	2.5	COMPL	Milling plugs	MILL	Wash down to CFP # 12 w/490 jts, 3.5 bpm @ 2000 psi pump// 4.1 bpm @ 340 psi whp. Will circulate 10 bbl gel sweep 1 jt above plug. Tag & drill plug #12 @ 14,585' in 16 min. Light sand in returns.
2/21/2014 02:30	2/21/2014 05:30	3	COMPL	Milling plugs	MILL	Wash down to CFP # 11 w/500 jts, 3.5 bpm @ 2000 psi pump// 4.1 bpm @ 340 psi whp. Will circulate 10 bbl gel sweep 1 jt above plug. Tag & drill plug #11 @ 14,885' in 11 min.
2/21/2014 05:30	2/21/2014 06:00	0.5	COMPL	Milling plugs	MILL	Wash down to CFP # 10 w/510 jts, 3.5 bpm @ 2000 psi pump// 4.1 bpm @ 340 psi whp. Will circulate 10 bbl gel sweep 1 jt above plug. Circulating @ report time

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 30 Daily Operation: 2/21/2014 06:00 - 2/22/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 028196	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
159	30	-26.5			ENERGY SERVICE, #240			

Operations Summary

Drill plugs # 10 to # 3. Circulating on #2.

Remarks

Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Vision Oil Tools: 0.0 Hrs Cum: 0.0 Hrs
Exclusive Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Warrior Flowback: 0.0 Hrs Cum: 0.0 Hrs
Voyager: 0.0 Hrs Cum: 0.0 Hrs

FTR: 319,108 bbls

RT: 920 bbls

CR: 2,516 bbls

LTR: 316,592 bbls

TSIF: 12,133,094 lbs

2-19-2014 Transferred 353 bbls oil from holding tanks to University 10-1 #18H Battery , Red Aldridge Orders ,
2-22-2014- Storing 54 bbl of oil from 17H in tk. #744

Roll Offs on loc= 15 Boxes

4 boxes used on 19H

4 boxes used on 18H

3 box used on 17H

1 RT250173 in use

12 Full (RT250017, 129, 178, 187, 229, 273, 300, 337, 343, 384, 450, 445).

2 Empty (RT250018, 341).

Pick up BHA follows

	OD	ID	Length
Cross over sub	3.11/16	X 1.3/4	1.38
R Nipple	2.7/8	X 1.1/2	.67
2.3/8 Float	3.1/8	X 1.1/2	1.50
2.3/8 Float	3.1/8	X 1.3/4	1.50
Bit sub	3.11/16	X 1.1/8	1.39
Bit SN 1328346	4.3/4	X	.50
Total BHA			6.94

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/21/2014 06:00	2/21/2014 07:00	1	COMPL	Milling plugs	MILL	15,113' Circulate 10 bbl gel sweep. 3.5 bpm @ 2000 psi// 4 bpm @ 200 psi whp. Jt # 507
2/21/2014 07:00	2/21/2014 07:30	0.5	COMPL	Milling plugs	MILL	Tag CFP # 10 at 15,195 ' jt # 510. Drill 22 mins. 3.5 bpm @ 1900 psi pump// returns 4 bpm @ 130 psi whp. Send 5 bbl gel sweep. 20 bbl water after. Wash to CFP # 9.
2/21/2014 07:30	2/21/2014 09:45	2.25	COMPL	Milling plugs	MILL	Wash to 1 jt above CFP # 9 at 15,455 ' jt # 518. 3.5 bpm @ 1900 psi// return 3.5 bpm @ 130 psi. Send 10 bbl 75 vis Gel sweep.
2/21/2014 09:45	2/21/2014 10:45	1	COMPL	Milling plugs	MILL	Tag CFP # 9 at 15,483 ' jt # 519. Drill 48 mins. 3.5 bpm @ 2200 psi pump// Returns 4 bpm @ 110 psi. Send 5 bbl gel sweep. 20 bbls after. Wash to CFP # 8.
2/21/2014 10:45	2/21/2014 13:00	2.25	COMPL	Milling plugs	MILL	Wash to 1 jt above CFP # 8 to 15,764 ' jt # 528. 3.5 bpm @ 2100 psi pump// 3.9 bpm @ 110 psi returns. Send 10 bbl gel sweep. Circulate bottoms up.
2/21/2014 13:00	2/21/2014 14:00	1	COMPL	Milling plugs	MILL	Tag CFP # 8 at 15,785 ' jt # 529. Drill 32 mins. 3.5 bpm @ 2100 psi pump// Returns 4 bpm @ 110 psi. Send 5 bbl gel sweep. 20 bbls after. Wash to CFP # 7.
2/21/2014 14:00	2/21/2014 16:00	2	COMPL	Milling plugs	MILL	Wash to 1 jt above CFP # 1 to 16,043 ' jt # 537. 3.5 bpm @ 2100 psi pump// 4 bpm @ 110 psi returns. Send 10 bbl gel sweep. Circulate bottoms up.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/21/2014 16:00	2/21/2014 16:30	0.5	COMPL	Milling plugs	MILL	Tag CFP # 7 at 16,080' jt # 539. Drill 27 mins. 3.5 bpm @ 2100 psi pump// Returns 4.5 bpm @ 140 psi. Send 5 bbl gel sweep. 20 bbls after. Wash to CFP # 6.
2/21/2014 16:30	2/21/2014 18:00	1.5	COMPL	Milling plugs	MILL	Washing to CFP # 6 pumping 3.5 bpm @ 2100 psi// 4.5 bpm @ 140 psi whp. On jt # 542 16,198' pump pressure rose to 2500 psi. Stop and circulate 10 bbl Gel sweep 75 vis. whp 140 psi @ 4.5 bpm. Monitor returns.
2/21/2014 18:00	2/21/2014 20:00	2	COMPL	Milling plugs	MILL	Wash to CFP # 6 @ 16,380' on jt # 549, Pumping 3.5 bpm @ 2100 psi// 4.5 bpm @ 140 psi whp. Drill plug in 25 min. Circ 5 bbl sweep to surface.
2/21/2014 20:00	2/21/2014 23:00	3	COMPL	Milling plugs	MILL	Wash to CFP # 5 @ 16,690' on jt # 558, Pumping 3.5 bpm @ 1900 psi// 4.1 bpm @ 120 psi whp. Drill plug in 18 min. Circ 5 bbl sweep to surface.
2/21/2014 23:00	2/22/2014 01:30	2.5	COMPL	Milling plugs	MILL	Wash to CFP # 4 @ 16,990' on jt # 568, Pumping 3.5 bpm @ 2000 psi// 4.1 bpm @ 120 psi whp. Drill plug in 23 min. Circ 5 bbl sweep to surface.
2/22/2014 01:30	2/22/2014 04:30	3	COMPL	Milling plugs	MILL	Wash to CFP # 3 @ 17,282' on jt # 577, Pumping 3.5 bpm @ 2000 psi// 4.1 bpm @ 120 psi whp. Drill plug in 26 min. Circ 5 bbl sweep to surface.
2/22/2014 04:30	2/22/2014 06:00	1.5	COMPL	Milling plugs	MILL	Wash to CFP # 2 @ 17,583' on jt # 587, Pumping 3.5 bpm @ 2000 psi// 4.1 bpm @ 120 psi whp @ report time.

Report #: 31 Daily Operation: 2/22/2014 06:00 - 2/23/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days) 160	Days on Location (days) 31	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig ENERGY SERVICE, #240	

Operations Summary

Drill plugs #2 & 1--Clean to PBTD. POOH laying down tubing. MIRU API WL. Set Prod. Pkr.

Remarks

Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Vision Oil Tools: 0.0 Hrs Cum: 0.0 Hrs
Exclusive Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Warrior Flowback: 0.0 Hrs Cum: 0.0 Hrs
Voyager: 0.0 Hrs Cum: 0.0 Hrs

Transferred Pioneer Tank # 814 to University 10-13 #22-24H Location

FTR: 319,108 bbls

RT: 283 bbls

CR: 2,799 bbls

LTR: 316,309 bbls

TSIF: 12,133,094 lbs

2-22-2014- Storing 54 bbl of oil from 17H in tk. #744

Roll Offs on loc= 15 Boxes

4 boxes used on 19H

4 boxes used on 18H

4 box used on 17H

13 Full (RT250017, 129, 173, 178, 187, 229, 273, 300, 337, 343, 384, 450, 445).

2 Empty (RT250018, 341).

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/22/2014 06:00	2/22/2014 06:45	0.75	COMPL	Milling plugs	MILL	Circulating bottoms up. 3.5 bpm @ 2100 psi//4.25 bpm @ 120 psi returns. 1 jt above CFP # 2 @ 17,561'.
2/22/2014 06:45	2/22/2014 07:45	1	COMPL	Milling plugs	MILL	Tag CFP # 2. 17,585' jt # 587. Pumping 3.5 bpm @ 2400 psi// 4.25 bpm @ 120 psi whp returns. Drill Time : 45 minutes. Send 5 bbls sweep. 20 bbls spacer. Wash to CFP # 1.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/22/2014 07:45	2/22/2014 10:15	2.5	COMPL	Milling plugs	MILL	Wash to CFP # 1. Stop and send 10 bbl sweep @ 17,871' jt 596. 1 jt above plug #1. 3.5 bpm 2400 psi//4 bpm @ 120 psi returns. 75 vis sweep.
2/22/2014 10:15	2/22/2014 11:00	0.75	COMPL	Milling plugs	MILL	Tag CFP # 1. 17,885' jt # 597. Drill time : 69 mins. 3.5 bpm @ 2,400 psi// 4 bpm @ 120 psi whp returns. Send 5 bbl gel sweep.
2/22/2014 11:00	2/22/2014 12:45	1.75	COMPL	Milling plugs	MILL	Wash to Float collar @ 18,176' work string tally jt 606 w 4' out. Send gel sweeps.
2/22/2014 12:45	2/22/2014 15:30	2.75	COMPL	Milling plugs	MILL	Send 20 bbl (75 vis) gel sweep//30 bbl Fr water spacer// 20 bbl (75 vis) Gel sweep. 3.5 bpm @ 2400 psi // 4 bpm @ 100 psi whp returns. When second sweep is on bottom, pinch in returns to bbl in/bbl out. Circulate both sweeps to surface. Pump until returns are clean of sand.
2/22/2014 15:30	2/22/2014 21:30	6	TRIP OUT HOLE	TOOH	TOOH	Returns clean. Close choke ISIP 210 psi. Rig down swivel. Begin trip out of hole with 209 jts of 2 7/8" Ph6 and 132 jts of 2 3/8 " Ph6 tubing. Laying down single joints.
2/22/2014 21:30	2/22/2014 23:00	1.5	TRIP OUT HOLE	TOOH	TOOH	Pump 200 bbl 10# brine water to kill well w/265 jts in hole (7,850). Put rig back on 2 lines. Well @ 0 psi. Observe for 30 min.
2/22/2014 23:00	2/23/2014 01:30	2.5	TRIP OUT HOLE	TOOH	TOOH	Cont to POOH laying down 2 3/8" WS. OOH. SIW.
2/23/2014 01:30	2/23/2014 03:30	2	R/U/R/D	RIG UP / RIG DOWN	RIG UP / RIG DOWN	RD Birdbath & Hydril. RU WL spool. Start moving Prod string on racks & tally.
2/23/2014 03:30	2/23/2014 06:00	2.5	COMPL	Wireline operations to set packer	WLPK	MIRU API WL. RIH w/ 4.625 GR & junk basket to 7,800' WLM, POOH w/ GR / junk basket. RIH w/ PCS 5-1/2 AS1X 7K packer (4.625 O.D.) w/ pump out plug to 7,734' WLM and set packer. POOH w/ setting tool. RDMO API WL. Bleed psi off well to check that the packer is holding. Rigging down @ report time.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Report #: 32 Daily Operation: 2/23/2014 06:00 - 2/24/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 028196
Days From Spud (days) 161	Days on Location (days) 32	End Depth (ftGRD) -26.5	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig ENERGY SERVICE, #240	

Operations Summary

Run Prod tbg w/gas lift valves.

Remarks

Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Vision Oil Tools: 0.0 Hrs Cum: 0.0 Hrs
Exclusive Energy Services: 0.0 Hrs Cum: 0.0 Hrs
Warrior Flowback: 0.0 Hrs Cum: 0.0 Hrs
Voyager: 0.0 Hrs Cum: 0.0 Hrs

Transferred Pioneer Tank # 814 to University 10-13 #22-24H Location

FTR: 319,108 bbls

RT: 283 bbls

CR: 2,799 bbls

LTR: 316,309 bbls

TSIF: 12,133,094 lbs

2-23-2014- Storing 326 bbl of oil from 17H in tk. #744

3/2/14 at 18:30 spoke to Dustin w Pioneer Tanks Release all Frac Tanks except #693 has oil. Red will get someone to determine if oil is sellable on 3/3/14. Once determined and emptied, # 693 will be transferred to a loc to be a flowback tank(Dustin aware it will not be clean.

Roll Offs on loc= 12 Boxes

4 boxes used on 19H

4 boxes used on 18H

4 box used on 17H

13 Full (RT250017, 129, 173, 178, 187, 229, 273, 300, 337, 343, 384, 450, 445).

2 Empty (RT250018, 341).

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/23/2014 06:00	2/23/2014 06:30	0.5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Wireline out of hole with setting tool. Packer set at 7,734' w/l measurement.
2/23/2014 06:30	2/23/2014 07:45	1.25	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Flange bird bath back up. Tally production pipe 2 7/8" L-80 6.5 lb.
2/23/2014 07:45	2/23/2014 13:15	5.5	COMPL	Tbg related operations	TUBING	Begin trip in hole with 245 jts of 2 7/8 " L-80 8rnd 6.5lb Production pipe with 1x 10', 1x 8' , 1x6' , and 2 x 2' 2 7/8" L80 subs. With 11 PCS Gas Lift Valves.
2/23/2014 13:15	2/23/2014 16:45	3.5	COMPL	Tbg related operations	TUBING	Latch onto Packer. Mark for spacing. J- off. Install pup jts. Latch onto packer with J and W hanger and landing joint. 16,000 #'s down on packer. Rig down Bird bath, BOP's, lower half frac stack. Install Production well head. Test hanger to 5000 psi.
2/23/2014 16:45	2/23/2014 17:00	0.25	COMPL	Other operations	OTHR	Rigged Vision pump to well head. Pressure up to 2000 psi to shear screws on pump out plug. Pumped 10 bbls after. WHP 100 psi at shut down.
2/23/2014 17:00	2/23/2014 18:00	1	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Rig down Vision pump and ESCO WOR. . Equipment releasing, tank cleaning, location cleaning still in progress.
2/23/2014 18:00	2/24/2014 06:00	12	COMPL	Other operations	OTHR	Sending water to disposal. Releasing equipment. Turn well over to production.

WELL DETAILS

Well Name UNIVERSITY 10-1 17H	API/UWI 42-383-38420-0000	Operator PIONEER NATURAL RESRC USA INC
----------------------------------	------------------------------	---

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Wellbore Hole Size									
Section Des		Size (in)	Act Top (ftGRD)	Act Btm (ftGRD)	Start Date		End Date		
Conductor		30	0.0	120.0	9/1/2013		9/1/2013		
Surface		17 1/2	120.0	653.5	9/15/2013		9/16/2013		
Intermediate		12 1/4	653.5	7,991.5	9/22/2013		9/26/2013		
Production		8 1/2	7,991.5	14,376.5	12/12/2013		12/16/2013		
Production		8 1/2	7,991.5	14,570.5	9/27/2013		10/1/2013		
Production		8 1/2	11,255.5	18,226.5	12/22/2013		12/28/2013		
Conductor Casing									
Run Date		Set Depth (ftGRD)			Centralizers				
		93.5							
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints		20	19.124	94.00		120.00	1	-26.5	93.5
Run Date		Set Depth (ftGRD)			Centralizers				
9/1/2013		120.0							
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints		20	19.124	94.00	J-55	120.00	1	0.0	120.0
Surface Casing									
Set Depth (ftGRD)		Run Date		Centralizers					
646.5		9/16/2013		4					
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints		13 3/8	12.715	48.00	J-55	600.85	15	0.0	600.9
Float Collar		13 3/8	12.715	48.00	J-55	1.25	1	600.9	602.1
Casing Joints		13 3/8	12.715	48.00	J-55	42.90	1	602.1	645.0
Float Shoe		13 3/8	12.715	48.00	J-55	1.50	1	645.0	646.5
Set Depth (ftGRD)		Run Date		Centralizers					
648.5									
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints		13 3/8	12.715	48.00	J-55	350.00	17	298.5	648.5
Surface Casing Cement									
Type		String	Cementing Start Date	Cementing End Date	Cementing Company			Top (ftGRD)	Btm (ftGRD)
Casing		Surface, 646.5ftGRD	9/16/2013	9/16/2013	SCHLUMBERGER			0.0	653.5
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
Class C		548		1.71		13.60			
Intermediate Casing									
Set Depth (ftGRD)		Run Date		Centralizers					
7,471.5		9/26/2013		20					
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Landing Joint		9 5/8	8.755	40.00	L-80	0.00	0	0.0	0.0
Hanger/Running Tool		9 5/8	8.755	40.00	L-80	0.00	0	0.0	0.0
Casing Joints		9 5/8	8.755	40.00	L-80	10.25	1	0.0	10.2
Casing Joints		9 5/8	8.755	40.00	L-80	2,928.99	64	10.2	2,939.2
Ryte Wrap		9 5/8	8.755	40.00	L-80	2,294.05	49	2,939.2	5,233.3
Casing Joints		9 5/8	8.755	40.00	L-80	368.09	8	5,233.3	5,601.3
Casing Joints		9 5/8	8.755	43.50	L-80	1,773.29	38	5,601.3	7,374.6
Float Collar		9 5/8	8.755	43.50	L-80	1.50	1	7,374.6	7,376.1
Casing Joints		9 5/8	8.755	43.50	L-80	93.87	2	7,376.1	7,470.0
Float Shoe		9 5/8	8.755	43.50	L-80	1.50	1	7,470.0	7,471.5
Set Depth (ftGRD)		Run Date		Centralizers					
7,523.5									
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints		9 5/8	8.755	43.50	L-80	7,525.00	189	-1.5	7,523.5
Intermediate Casing Cement									
Type		String	Cementing Start Date	Cementing End Date	Cementing Company			Top (ftGRD)	Btm (ftGRD)
Casing		Intermediate, 7,471.5ftGRD	9/27/2013	9/27/2013	SCHLUMBERGER			0.0	7,471.5
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
						8.33			
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
TXI LITEWEIGHT		1,688		1.62		12.50			
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
Class H		163		1.07		16.40			
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
Oil Base Mud						9.50			
Production Casing									
Set Depth (ftGRD)		Run Date		Centralizers					
16,473.5									

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints		5 1/2	4.892	17.00	P-110	16,475.00	412	-1.5	16,473.5
Set Depth (ftGRD)	Run Date	Centralizers							
18,226.5	12/31/2013	31							
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Landing Joint		5 1/2	4.892	17.00	P-110	0.00	0	0.0	0.0
Marker Joint		5 1/2	4.892	17.00	P-110	0.00	0	0.0	0.0
Casing Joints		5 1/2	4.892	17.00	P-110	7,389.99	178	0.0	7,390.0
Marker Joint		5 1/2	4.892	17.00	P-110	9.66	1	7,390.0	7,399.7
Casing Joints		5 1/2	4.892	17.00	P-110	168.30	4	7,399.7	7,568.0
Marker Joint		5 1/2	4.892	17.00	P-110	9.93	1	7,568.0	7,577.9
Casing Joints		5 1/2	4.892	17.00	P-110	10,562.46	256	7,577.9	18,140.4
Float Collar		5 1/2	4.892	17.00	P-110	1.50	1	18,140.4	18,141.9
Casing Joints		5 1/2	4.892	17.00	P-110	83.12	2	18,141.9	18,225.0
Float Shoe		5 1/2	4.892	17.00	P-110	1.50	1	18,225.0	18,226.5
Production Casing Cement									
Type		String		Cementing Start Date		Cementing End Date		Cementing Company	
Casing		Production, 18,226.5ftGRD		12/31/2013		1/1/2014		SCHLUMBERGER	
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
								11.00	
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
TXI LITEWEIGHT		373		2.79				11.00	
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
TXI LITEWEIGHT		2,037		1.63				12.40	
Class		Amount (sacks)		Yield (ft³/sack)		Density (lb/gal)			
								8.33	
Cement Squeeze									
Description		Type		String		Cementing Start Date		Cementing End Date	
								Top (ftGRD)	
								Btm (ftGRD)	
Amount (sacks)		Yield (ft³/sack)		Dens (lb/gal)					
Perforations									
Top (ftGRD)	Btm (ftGRD)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com				
7,797.5	7,799.5	WOLFCAMP, Original Hole	4.0	8	Stage 35 Cluster 3				
7,857.5	7,859.5	WOLFCAMP, Original Hole	4.0	8	Stage 35 Cluster 2				
7,917.5	7,919.5	WOLFCAMP, Original Hole	4.0	8	Stage 35 Cluster 1				
7,977.5	7,979.5	WOLFCAMP, Original Hole	4.0	8	Stage 34 Cluster 5				
8,037.5	8,039.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 34 Cluster 4				
8,097.5	8,099.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 34 Cluster 3				
8,157.5	8,159.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 34 Cluster 2				
8,217.5	8,219.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 34 Cluster 1				
8,277.5	8,279.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 33 Cluster 5				
8,337.5	8,339.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 33 Cluster 4				
8,397.5	8,399.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 33 Cluster 3				
8,457.5	8,459.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 33 Cluster 2				
8,517.5	8,519.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 33 Cluster 1				
8,577.5	8,579.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 32 Cluster 5				
8,637.5	8,639.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 32 Cluster 4				
8,697.5	8,699.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 32 Cluster 3				
8,757.5	8,759.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 32 Cluster 2				
8,817.5	8,819.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 32 Cluster 1				
8,877.5	8,879.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 31 Cluster 5				
8,937.5	8,939.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 31 Cluster 4				
8,997.5	8,999.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 31 Cluster 3				
9,057.5	9,059.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 31 Cluster 2				
9,117.5	9,119.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 31 Cluster 1				
9,177.5	9,179.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 30 Cluster 5				
9,237.5	9,239.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 30 Cluster 4				
9,297.5	9,299.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 30 Cluster 3				
9,357.5	9,359.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 30 Cluster 2				
9,417.5	9,419.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 30 Cluster 1				

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Perforations

Top (ftGRD)	Btm (ftGRD)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
9,477.5	9,479.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 29 Cluster 5
9,537.5	9,539.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 29 Cluster 4
9,597.5	9,599.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 29 Cluster 3
9,657.5	9,659.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 29 Cluster 2
9,717.5	9,719.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 29 Cluster 1
9,777.5	9,779.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 28 Cluster 5
9,837.5	9,839.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 28 Cluster 4
9,897.5	9,899.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 28 Cluster 3
9,957.5	9,959.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 28 Cluster 2
10,017.5	10,019.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 28 Cluster 1
10,077.5	10,079.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 27 Cluster 5
10,137.5	10,139.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 27 Cluster 4
10,197.5	10,199.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 27 Cluster 3
10,257.5	10,259.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 27 Cluster 2
10,317.5	10,319.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 27 Cluster 1
10,377.5	10,379.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 26 Cluster 5
10,437.5	10,439.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 26 Cluster 4
10,497.5	10,499.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 26 Cluster 3
10,557.5	10,559.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 26 Cluster 2
10,617.5	10,619.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 26 Cluster 1
10,677.5	10,679.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 25 Cluster 5
10,737.5	10,739.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 25 Cluster 4
10,797.5	10,799.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 25 Cluster 3
10,857.5	10,859.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 25 Cluster 2
10,917.5	10,919.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 25 Cluster 1
10,977.5	10,979.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 24 Cluster 5
11,037.5	11,039.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 24 Cluster 4
11,097.5	11,099.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 24 Cluster 3
11,157.5	11,159.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 24 Cluster 2
11,217.5	11,219.5	WOLFCAMP, Sidetrack 1	4.0	8	Stage 24 Cluster 1
11,277.5	11,279.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 23 Cluster 5
11,337.5	11,339.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 23 Cluster 4
11,397.5	11,399.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 23 Cluster 3
11,457.5	11,459.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 23 Cluster 2
11,517.5	11,519.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 23 Cluster 1
11,577.5	11,579.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 22 Cluster 5
11,637.5	11,639.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 22 Cluster 4
11,697.5	11,699.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 22 Cluster 3
11,757.5	11,759.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 22 Cluster 2
11,817.5	11,819.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 22 Cluster 1
11,877.5	11,879.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 21 Cluster 5
11,937.5	11,939.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 21 Cluster 4
11,997.5	11,999.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 21 Cluster 3
12,057.5	12,059.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 21 Cluster 2
12,117.5	12,119.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 21 Cluster 1
12,177.5	12,179.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 20 Cluster 5
12,237.5	12,239.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 20 Cluster 4
12,297.5	12,299.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 20 Cluster 3
12,357.5	12,359.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 20 Cluster 2
12,417.5	12,419.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 20 Cluster 1
12,477.5	12,479.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 19 Cluster 5
12,537.5	12,539.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 19 Cluster 4
12,597.5	12,599.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 19 Cluster 3
12,657.5	12,659.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 19 Cluster 2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Perforations

Top (ftGRD)	Btm (ftGRD)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
12,717.5	12,719.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 19 Cluster 1
12,777.5	12,779.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 18 Cluster 5
12,837.5	12,839.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 18 Cluster 4
12,897.5	12,899.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 18 Cluster 3
12,957.5	12,959.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 18 Cluster 2
13,017.5	13,019.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 18 Cluster 1
13,077.5	13,079.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 17 Cluster 5
13,137.5	13,139.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 17 Cluster4
13,197.5	13,199.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 17 Cluster 3
13,257.5	13,259.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 17 Cluster 2
13,317.5	13,319.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 17 Cluster 1
13,377.5	13,379.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 16 Cluster 5
13,437.5	13,439.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 16 Cluster 4
13,497.5	13,499.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 16 Cluster 3
13,557.5	13,559.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 16 Cluster 2
13,617.5	13,619.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 16 Cluster 1
13,677.5	13,679.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 15 Cluster 5
13,737.5	13,739.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 15 Cluster 4
13,797.5	13,799.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 15 Cluster 3
13,857.5	13,859.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 15 Cluster 2
13,917.5	13,919.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 15 Cluster 1
13,977.5	13,979.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 14 Cluster 5
14,037.5	14,039.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 14 Cluster 4
14,097.5	14,099.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 14 Cluster3
14,157.5	14,159.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 14 Cluster 2
14,217.5	14,219.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 14 Cluster 1
14,277.5	14,279.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 13 Cluster 5
14,337.5	14,339.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 13 Cluster 4
14,397.5	14,399.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 13 Cluster 3
14,457.5	14,459.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 13 Cluster 2
14,517.5	14,519.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 13 Cluster 1
14,577.5	14,579.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 12 Cluster 5
14,637.5	14,639.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 12 Cluster 4
14,697.5	14,699.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 12 Cluster 3
14,757.5	14,759.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 12 Cluster 2
14,817.5	14,819.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 12 Cluster 1
14,877.5	14,879.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 11 Cluster 5
14,937.5	14,939.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 11 Cluster 4
14,997.5	14,999.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 11 Cluster 3
15,057.5	15,059.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 11 Cluster 2
15,117.5	15,119.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 11 Cluster 1
15,177.5	15,179.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 10 Cluster 5
15,237.5	15,239.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 10 Cluster 4
15,297.5	15,299.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 10 Cluster 3
15,357.5	15,359.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 10 Cluster 2
15,417.5	15,419.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 10 Cluster 1
15,477.5	15,479.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 9 Cluster 5
15,537.5	15,539.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 9 Cluster 4
15,597.5	15,599.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 9 Cluster 3
15,657.5	15,659.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 9 Cluster 2
15,717.5	15,719.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 9 Cluster 1
15,777.5	15,779.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 8 Cluster 5
15,837.5	15,839.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 8 Cluster 4
15,897.5	15,899.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 8 Cluster 3

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Perforations

Top (ftGRD)	Btm (ftGRD)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
15,957.5	15,959.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 8 Cluster 2
16,017.5	16,019.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 8 Cluster 1
16,077.5	16,079.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 7 Cluster 5
16,137.5	16,139.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 7 Cluster 4
16,197.5	16,199.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 7 Cluster 3
16,257.5	16,259.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 7 Cluster 2
16,317.5	16,319.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 7 Cluster 1
16,377.5	16,379.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 6 Cluster 5
16,437.5	16,439.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 6 Cluster 4
16,497.5	16,499.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 6 Cluster 3
16,557.5	16,559.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 6 Cluster 2
16,617.5	16,619.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 6 Cluster 1
16,677.5	16,679.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 5 Cluster 5
16,737.5	16,739.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 5 Cluster 4
16,797.5	16,799.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 5 Cluster 3
16,857.5	16,859.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 5 Cluster 2
16,917.5	16,919.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 5 Cluster 1
16,977.5	16,979.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 4 Cluster 5
17,037.5	17,039.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 4 Cluster 4
17,097.5	17,099.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 4 Cluster 3
17,157.5	17,159.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 4 Cluster 2
17,217.5	17,219.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 4 Cluster 1
17,277.5	17,279.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 3 Cluster 5
17,337.5	17,339.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 3 Cluster 4
17,397.5	17,399.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 3 Cluster 3
17,457.5	17,459.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 3 Cluster 2
17,517.5	17,519.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 3 Cluster 1
17,577.5	17,579.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 2 Cluster 5
17,637.5	17,639.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 2 Cluster 4
17,697.5	17,699.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 2 Cluster 3
17,757.5	17,759.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 2 Cluster 2
17,817.5	17,819.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 2 Cluster 1
17,877.5	17,879.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 1 Cluster 5
17,937.5	17,939.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 1 Cluster 4
17,997.5	17,999.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 1 Cluster 3
18,057.5	18,059.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 1 Cluster 2
18,117.5	18,119.5	WOLFCAMP, Sidetrack 2	4.0	8	Stage 1 Cluster 1

Stimulations & Treatments (Actual)

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/12/2014	STAGE 1	Pioneer Pumping Services	17,877.5	18,119.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 24328 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,535.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/13/2014	STAGE 2	Pioneer Pumping Services	17,577.5	17,819.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25350 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,351.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Stimulations & Treatments (Actual)

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/13/2014	STAGE 3	Pioneer Pumping Services	17,277.5	17,519.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 24908 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	11,825.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/14/2014	STAGE 4	Pioneer Pumping Services	16,977.5	17,219.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25034 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,353.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/14/2014	STAGE 5	Pioneer Pumping Services	16,677.5	16,919.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 27149 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,412.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/15/2014	STAGE 6	Pioneer Pumping Services	16,377.5	16,619.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 0 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 lb; B	9,137.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/15/2014	STAGE 7	Pioneer Pumping Services	16,077.5	16,319.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 28970 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,484.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/16/2014	STAGE 8	Pioneer Pumping Services	15,777.5	16,019.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 24915 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,866.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/16/2014	STAGE 9	Pioneer Pumping Services	15,477.5	15,719.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25512 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,237.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/16/2014	STAGE 10	Pioneer Pumping Services	15,177.5	15,419.5	0; 100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 24777 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 5000	9,125.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Stimulations & Treatments (Actual)

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/17/2014	STAGE 11	Pioneer Pumping Services	14,877.5	15,119.5	0; 100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25143 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 5000	8,372.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/17/2014	STAGE 12	Pioneer Pumping Services	14,577.5	14,819.5	0; 100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25178 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 5000	8,892.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/18/2014	STAGE 13	Pioneer Pumping Services	14,277.5	14,519.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 23593 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,415.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/18/2014	STAGE 14	Pioneer Pumping Services	13,977.5	14,219.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 23814 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	11,129.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/19/2014	STAGE 15	Pioneer Pumping Services	13,677.5	13,919.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 24520 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,648.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/19/2014	STAGE 16	Pioneer Pumping Services	13,377.5	13,619.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 0 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 lb; B	8,993.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/20/2014	STAGE 17	Pioneer Pumping Services	13,077.5	13,319.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25114 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,026.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/20/2014	STAGE 18	Pioneer Pumping Services	12,777.5	13,019.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 0 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 lb; B	8,613.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Stimulations & Treatments (Actual)

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/20/2014	STAGE 19	Pioneer Pumping Services	12,477.5	12,719.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25412 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,029.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/21/2014	STAGE 20	Pioneer Pumping Services	12,177.5	12,419.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25183 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,944.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/21/2014	STAGE 21	Pioneer Pumping Services	11,877.5	12,119.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25183 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,955.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/22/2014	STAGE 22	Pioneer Pumping Services	11,577.5	11,819.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25320 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,978.00

<Comment?>, WOLFCAMP, Sidetrack 2

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/22/2014	STAGE 23	Pioneer Pumping Services	11,277.5	11,519.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 24898 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,734.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/23/2014	STAGE 24	Pioneer Pumping Services	10,977.5	11,219.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 30411 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,944.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/23/2014	STAGE 25	Pioneer Pumping Services	10,677.5	10,919.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25066 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,910.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/26/2014	STAGE 26	Pioneer Pumping Services	10,377.5	10,619.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25262 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	14,277.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Stimulations & Treatments (Actual)

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/27/2014	STAGE 27	Pioneer Pumping Services	10,077.5	10,319.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25655 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,766.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/27/2014	STAGE 28	Pioneer Pumping Services	9,777.5	10,019.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 24916 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,581.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/27/2014	STAGE 29	Pioneer Pumping Services	9,477.5	9,719.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25282 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,516.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/28/2014	STAGE 30	Pioneer Pumping Services	9,177.5	9,419.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 23804 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	9,396.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/28/2014	STAGE 31	Pioneer Pumping Services	8,877.5	9,119.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25098 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,639.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/28/2014	STAGE 32	Pioneer Pumping Services	8,577.5	8,819.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25167 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,502.00

<Comment?>, WOLFCAMP, Sidetrack 1

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/28/2014	STAGE 33	Pioneer Pumping Services	8,277.5	8,519.5	100 Mesh 1 Bulk Sand 12500 lb; 100 Mesh 2 Bulk Sand 25648 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 l	8,539.00

<Comment?>, WOLFCAMP, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/29/2014	STAGE 34	Pioneer Pumping Services	7,977.5	8,219.5	100 Mesh 1 Bulk Sand 6000 lb; 100 Mesh 2 Bulk Sand 22548 lb; Brady 1 Bulk Sand 12500 lb; Brady 2 Bulk Sand 20625 lb; Brady 3 Bulk Sand 30000 lb; Brady 4 Bulk Sand 40625 lb; Brady 5 Bulk Sand 52500 lb; Brady 6 Bulk Sand 56875 lb; Brady 7 Bulk Sand 50000 lb	8,161.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Stimulations & Treatments (Actual)

<Comment?>, WOLFCAMP, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
1/29/2014	STAGE 35	Pioneer Pumping Services	7,797.5	7,919.5	100 Mesh 1 Bulk Sand 7500 lb; 100 Mesh 2 Bulk Sand 11399 lb; Brady 1 Bulk Sand 7500 lb; Brady 2 Bulk Sand 12375 lb; Brady 3 Bulk Sand 18000 lb; Brady 4 Bulk Sand 24375 lb; Brady 5 Bulk Sand 31500 lb; Brady 6 Bulk Sand 34125 lb; Brady 7 Bulk Sand 30000 lb;	5,193.00

Zones

Zone Name	Top (ftGRD)
WOLFCAMP	
WOLFCAMP	
WOLFCAMP	

Tubing Details

Tubing Description	Set Depth (ftGRD)	Run Date
Tubing - Production	7,731.7	2/23/2014

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Tubing Hanger	4.888	6.50	L-80	0.75	1	0.0	0.8
Tubing	2 7/8	6.50	L-80	31.20	1	0.8	32.0
Tubing Pup Joint	2 7/8	6.50	L-80	10.00	1	32.0	42.0
Tubing Pup Joint	2 7/8	6.50	L-80	8.00	1	42.0	50.0
Tubing Pup Joint	2 7/8	6.50	L-80	6.00	1	50.0	56.0
Tubing Pup Joint	2 7/8	6.50	L-80	2.00	1	56.0	58.0
Tubing Pup Joint	2 7/8	6.50	L-80	2.00	1	58.0	60.0
Tubing	2 7/8	6.50	L-80	2,215.90	71	60.0	2,275.9
GLV #11	2 7/8	6.50	L-80	4.10	1	2,275.9	2,280.0
Tubing	2 7/8	6.50	L-80	907.82	29	2,280.0	3,187.8
GLV #10	2 7/8	6.50	L-80	4.10	1	3,187.8	3,191.9
Tubing	2 7/8	6.50	L-80	500.33	16	3,191.9	3,692.2
GLV # 9	2 7/8	6.50	L-80	4.10	1	3,692.2	3,696.3
Tubing	2 7/8	6.50	L-80	500.17	16	3,696.3	4,196.5
GLV # 8	2 7/8	6.50	L-80	4.10	1	4,196.5	4,200.6
Tubing	2 7/8	6.50	L-80	499.19	16	4,200.6	4,699.8
GLV # 7	2 7/8	6.50	L-80	4.10	1	4,699.8	4,703.9
Tubing	2 7/8	6.50	L-80	467.65	15	4,703.9	5,171.5
GLV # 6	2 7/8	6.50	L-80	4.10	1	5,171.5	5,175.6
Tubing	2 7/8	6.50	L-80	498.59	16	5,175.6	5,674.2
GLV # 5	2 7/8	6.50	L-80	4.10	1	5,674.2	5,678.3
Tubing	2 7/8	6.50	L-80	499.92	16	5,678.3	6,178.2
GLV # 4	2 7/8	6.50	L-80	4.10	1	6,178.2	6,182.3
Tubing	2 7/8	6.50	L-80	498.97	16	6,182.3	6,681.3
GLV # 3	2 7/8	6.50	L-80	4.10	1	6,681.3	6,685.4
Tubing	2 7/8	6.50	L-80	499.47	16	6,685.4	7,184.9
GLV # 2	2 7/8	6.50	L-80	4.10	1	7,184.9	7,189.0
Tubing	2 7/8	6.50	L-80	499.60	16	7,189.0	7,688.6
GLV # 1	2 7/8	6.50	L-80	4.10	1	7,688.6	7,692.7
Tubing	2 7/8	6.50	L-80	31.25	1	7,692.7	7,723.9
On-Off Tool	4 1/2	6.50	L-80	0.00	1	7,723.9	7,723.9
X N Nipple	3.32	6.50	L-80	0.00	1	7,723.9	7,723.9
Packer	4 5/8	6.50	L-80	7.40	1	7,723.9	7,731.3
Pump Out Plug	2 7/8	6.50	L-80	0.40	1	7,731.3	7,731.7

Rod Strings

Rod Description	Set Depth (ftGRD)	Run Date

Rod Components

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

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Other In Hole								
Des	Top (ftGRD)	Btm (ftGRD)	OD (in)	Run Date	Pull Date	Com	String	Wellbore
Fish	14,373.5	14,376.5	8 1/2	12/16/2013		Left part of BHA in hole.		Original Hole
Composite Plug 1	17,848.5	17,850.5	4.89	1/12/2014	2/22/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 2	17,548.5	17,550.5	4.89	1/13/2014	2/22/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 3	17,248.5	17,250.5	4.89	1/13/2014	2/22/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 4	16,948.5	16,950.5	4.89	1/14/2014	2/22/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 5	16,648.5	16,650.5	4.89	1/15/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 6	16,348.5	16,350.5	4.89	1/15/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 7	16,048.5	16,050.5	4.89	1/15/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 8	15,748.5	15,750.5	4.89	1/16/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 9	15,448.5	15,450.5	4.89	1/16/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 10	15,158.5	15,160.5	4.89	1/17/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 11	14,848.5	14,850.5	4.89	1/17/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 12	14,548.5	14,550.5	4.89	1/17/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 13	14,248.5	14,250.5	4.89	1/18/2014	2/20/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 14	13,948.5	13,950.5	4.89	1/18/2014	2/20/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 15	13,648.5	13,650.5	4.89	1/19/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 16	13,348.5	13,350.5	4.89	1/19/2014	2/21/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 17	13,043.5	13,045.5	4.89	1/20/2014	2/20/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 18	12,748.5	12,750.5	4.89	1/20/2014	2/20/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 19	12,448.5	12,450.5	4.89	1/21/2014	2/20/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 20	12,148.5	12,150.5	4.89	1/21/2014	2/20/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 21	11,848.5	11,850.5	4.89	1/21/2014	2/20/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 22	11,543.5	11,545.5	4.89	1/22/2014	2/19/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 23	11,248.5	11,250.5	4.89	1/22/2014	2/19/2014		Production, 18,226.5ftGRD	Sidetrack 2
Composite Plug 24	10,948.5	10,950.5	4.89	1/23/2014	2/19/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 25	10,648.5	10,650.5	4.89	1/23/2014	2/19/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 26	10,348.5	10,350.5	4.89	1/26/2014	2/19/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 27	10,048.5	10,050.5	4.89	1/27/2014	2/19/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 28	9,751.5	9,753.5	4.89	1/27/2014	2/19/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 29	9,448.5	9,450.5	4.89	1/27/2014	2/18/2014		Production, 18,226.5ftGRD	Sidetrack 1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Other In Hole

Des	Top (ftGRD)	Btm (ftGRD)	OD (in)	Run Date	Pull Date	Com	String	Wellbore
Composite Plug 30	9,148.5	9,150.5	4.89	1/28/2014	2/18/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 31	8,855.5	8,857.5	4.89	1/28/2014	2/18/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 32	8,548.5	8,550.5	4.89	1/28/2014	2/18/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 33	8,248.5	8,250.5	4.89	1/28/2014	2/18/2014		Production, 18,226.5ftGRD	Sidetrack 1
Composite Plug 34	7,953.5	7,955.5	4.89	1/29/2014	2/18/2014		Production, 18,226.5ftGRD	Original Hole
Kill Plug	6,393.5	6,395.5	4.89	1/29/2014	2/17/2014		Production, 18,226.5ftGRD	Original Hole

Well Tests

Description BEFORE IP	Volume Oil Total (bbl) 32354.0	Volume Gas Total (MCF) 14,413.250	Volume Water Total (bbl) 50305.4
--------------------------	-----------------------------------	--------------------------------------	-------------------------------------

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)
2/24/2014		0.000	200.0	1,110.0	GL	669.0	382.000	2829.0
2/25/2014		0.000	163.0	1,073.0	GL	816.0	390.000	2299.0
2/26/2014		0.000	195.0	1,084.0	GL	762.0	282.000	2144.0
2/27/2014		0.000	216.0	1,095.0	GL	884.0	349.000	1630.0
2/28/2014		0.000	210.0	1,065.0	GL	936.0	349.000	2079.0
3/1/2014		0.000	181.0	1,022.0	GL	940.0	345.000	1940.0
3/2/2014		0.000	141.0	982.0	GL	505.0	196.170	1096.7
3/3/2014		0.000	155.0	955.0	GL	444.0	190.000	1053.0
3/4/2014		0.000	170.0	1,020.0	GL	961.0	466.000	1790.0
3/5/2014		0.000	204.0	1,050.0	GL	908.0	410.000	1627.0
3/6/2014		0.000	203.0	1,052.0	GL	844.0	392.000	1596.0
3/7/2014		0.000	173.0	1,022.0	GL	780.0	368.000	1435.0
3/8/2014		0.000	164.0	910.0	GL	721.0	325.000	1278.0
3/9/2014		0.000	136.0	986.0	GL	505.0	235.000	969.0
3/10/2014		0.000	177.0	1,032.0	GL	813.0	404.000	1319.0
3/11/2014		0.000	164.0	1,019.0	GL	834.0	390.000	1273.0
3/12/2014		0.000	180.0	995.0	GL	804.0	380.000	1249.0
3/13/2014		0.000	175.0	1,000.0	GL	746.0	411.000	1303.0
3/14/2014		0.000	173.0	1,012.0	GL	833.0	373.000	1202.0
3/15/2014		0.000	142.0	967.0	GL	761.0	330.000	1058.0
3/16/2014		0.000	125.0	957.0	GL	637.0	271.000	927.0
3/17/2014		0.000	165.0	1,005.0	GL	700.0	307.000	903.0
3/18/2014		0.000	133.0	967.0	GL	680.0	264.000	809.0
3/19/2014		0.000	135.0	970.0	GL	852.0	366.550	1010.2
3/20/2014		0.000	175.0	1,006.0	GL	725.0	402.000	1072.0
3/21/2014		0.000	175.0	1,020.0	GL	765.0	373.000	998.0
3/22/2014		0.000	185.0	1,005.0	GL	829.0	369.000	1015.0
3/23/2014		0.000	155.0	925.0	GL	806.0	242.000	773.0
3/24/2014		0.000	145.0	960.0	GL	866.0	343.000	940.0
3/25/2014		0.000	165.0	987.0	GL	759.0	366.000	954.0
3/26/2014		0.000	165.0	990.0	GL	855.0	312.000	835.0
3/27/2014		0.000	155.0	991.0	GL	814.0	314.000	804.0
3/30/2014		0.000	196.0	1,018.0	GL	864.0	416.000	901.0
3/31/2014		0.000	185.0	1,006.0	GL	772.0	415.000	941.0
4/1/2014		0.000	180.0	995.0	GL	880.9	375.530	1023.5
4/2/2014		0.000	150.0	965.0	GL	780.0	393.000	799.0
4/3/2014		0.000	190.0	1,005.0	GL	773.0	345.000	828.0
4/4/2014		0.000	187.0	1,004.0	GL	804.0	351.000	882.0
4/5/2014		0.000	170.0	1,005.0	GL	638.0	280.000	673.0
4/6/2014		0.000	175.0	985.0	GL	555.0	188.000	470.0

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

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)
4/7/2014		0.000	191.0	1,002.0	GL	754.0	346.000	767.0
4/8/2014		0.000	183.0	1,000.0	GL	779.0	407.000	811.0
Directional Survey								
Date			Description					
9/16/2013			Actual					
Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company		
9/30/2013	-26.50	0.00	0.00	-26.50	0.00	DrilTech		
9/16/2013	73.50	1.15	81.42	73.49	1.00	MS Survey		
9/16/2013	173.50	1.16	66.00	173.47	3.00	MS Survey		
9/16/2013	273.50	0.65	79.24	273.46	4.57	MS Survey		
9/16/2013	373.50	0.33	147.31	373.46	5.30	MS Survey		
9/16/2013	473.50	0.28	103.14	473.46	5.79	MS Survey		
9/16/2013	573.50	0.32	271.98	573.46	5.85	MS Survey		
9/16/2013	618.50	0.55	301.04	618.45	6.18	MS Survey		
9/17/2013	749.50	0.40	277.30	749.45	7.25	DrilTech		
9/17/2013	749.50	0.40	277.30	749.45	7.25	DrilTech		
9/17/2013	930.50	0.50	288.90	930.44	8.66	DrilTech		
9/17/2013	1,119.50	0.40	278.30	1,119.44	10.14	DrilTech		
9/17/2013	1,309.50	0.50	264.60	1,309.43	11.62	DrilTech		
9/17/2013	1,499.50	0.90	268.80	1,499.42	13.94	DrilTech		
9/17/2013	1,688.50	0.70	288.90	1,688.40	16.54	DrilTech		
9/17/2013	1,878.50	0.70	292.70	1,878.39	18.86	DrilTech		
9/17/2013	2,067.50	1.90	280.30	2,067.33	23.13	DrilTech		
9/17/2013	2,257.50	4.00	259.30	2,257.08	32.76	DrilTech		
9/17/2013	2,446.50	4.20	255.10	2,445.59	46.27	DrilTech		
9/17/2013	2,636.50	1.90	263.00	2,635.31	56.35	DrilTech		
9/17/2013	2,826.50	1.40	264.30	2,825.23	61.83	DrilTech		
9/17/2013	3,016.50	1.10	266.20	3,015.19	65.97	DrilTech		
9/17/2013	3,205.50	1.10	261.80	3,204.15	69.60	DrilTech		
9/17/2013	3,395.50	0.90	289.00	3,394.12	72.82	DrilTech		
9/17/2013	3,585.50	1.10	284.10	3,584.10	76.13	DrilTech		
9/17/2013	3,774.50	1.10	283.10	3,773.06	79.76	DrilTech		
9/17/2013	3,964.50	0.90	291.50	3,963.03	83.07	DrilTech		
9/17/2013	4,153.50	1.10	311.40	4,152.00	86.32	DrilTech		
9/17/2013	4,342.50	1.20	304.70	4,340.97	90.10	DrilTech		
9/17/2013	4,532.50	1.60	294.80	4,530.91	94.73	DrilTech		
9/17/2013	4,722.50	1.40	300.10	4,720.84	99.70	DrilTech		
9/17/2013	4,911.50	1.10	295.00	4,909.80	103.82	DrilTech		
9/17/2013	5,101.50	0.90	319.60	5,099.77	107.06	DrilTech		
9/17/2013	5,291.50	1.20	322.40	5,289.74	110.54	DrilTech		
9/17/2013	5,481.50	2.10	177.30	5,479.70	112.71	DrilTech		
9/17/2013	5,672.50	1.60	152.60	5,670.60	118.74	DrilTech		
9/17/2013	5,862.50	1.90	121.70	5,860.52	124.33	DrilTech		
9/17/2013	6,052.50	1.60	104.00	6,050.43	130.06	DrilTech		
9/17/2013	6,243.50	1.40	105.50	6,241.37	135.06	DrilTech		
9/17/2013	6,338.50	1.10	54.60	6,336.35	136.94	DrilTech		
9/17/2013	6,433.50	2.10	29.90	6,431.31	139.53	DrilTech		
9/17/2013	6,528.50	3.90	13.40	6,526.18	144.46	DrilTech		
9/17/2013	6,623.50	5.10	4.60	6,620.88	151.89	DrilTech		
9/17/2013	6,718.50	6.20	357.30	6,715.42	161.23	DrilTech		
9/17/2013	6,813.50	7.70	352.70	6,809.72	172.71	DrilTech		
9/17/2013	6,909.50	9.10	350.00	6,904.69	186.73	DrilTech		
9/17/2013	7,004.50	10.20	345.70	6,998.35	202.65	DrilTech		
9/17/2013	7,099.50	11.40	341.10	7,091.66	220.43	DrilTech		
9/17/2013	7,194.50	12.70	334.80	7,184.57	240.24	DrilTech		
9/17/2013	7,289.50	13.70	334.00	7,277.06	261.93	DrilTech		

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
9/17/2013	7,383.50	13.90	332.10	7,368.35	284.35	DrilTech
9/17/2013	7,419.50	13.70	331.10	7,403.31	292.93	DrilTech
9/28/2013	7,517.50	17.20	321.20	7,497.77	318.95	DrilTech
9/28/2013	7,612.50	26.90	323.90	7,585.72	354.56	DrilTech
9/28/2013	7,707.50	37.70	332.10	7,665.94	405.14	DrilTech
9/28/2013	7,801.50	49.10	337.20	7,734.14	469.58	DrilTech
9/28/2013	7,896.50	60.20	341.40	7,789.04	546.92	DrilTech
9/28/2013	7,991.50	69.70	350.20	7,829.28	632.77	DrilTech
9/28/2013	8,086.50	76.70	1.60	7,856.80	723.48	DrilTech
9/28/2013	8,181.50	79.90	6.00	7,876.08	816.47	DrilTech
9/28/2013	8,275.50	85.30	6.00	7,888.18	909.65	DrilTech
9/28/2013	8,370.50	85.30	6.00	7,895.96	1,004.33	DrilTech
9/28/2013	8,465.50	89.20	5.30	7,900.52	1,099.21	DrilTech
9/28/2013	8,560.50	87.30	3.10	7,903.42	1,194.15	DrilTech
9/28/2013	8,655.50	89.90	5.30	7,905.74	1,289.11	DrilTech
9/28/2013	8,750.50	89.90	8.50	7,905.91	1,384.10	DrilTech
9/28/2013	8,844.50	87.60	9.40	7,907.96	1,478.07	DrilTech
9/28/2013	8,939.50	87.10	8.50	7,912.35	1,572.96	DrilTech
9/28/2013	9,034.50	86.40	8.20	7,917.74	1,667.81	DrilTech
9/28/2013	9,128.50	88.90	6.20	7,921.59	1,761.72	DrilTech
9/28/2013	9,223.50	88.30	5.30	7,923.91	1,856.69	DrilTech
9/28/2013	9,318.50	88.20	5.20	7,926.81	1,951.64	DrilTech
9/28/2013	9,413.50	88.00	4.80	7,929.96	2,046.59	DrilTech
9/28/2013	9,507.50	89.60	2.20	7,931.93	2,140.56	DrilTech
9/28/2013	9,602.50	90.30	2.70	7,932.01	2,235.56	DrilTech
9/28/2013	9,697.50	90.60	2.30	7,931.27	2,330.56	DrilTech
9/28/2013	9,791.50	89.70	1.60	7,931.02	2,424.55	DrilTech
9/28/2013	9,886.50	89.90	1.80	7,931.35	2,519.55	DrilTech
9/28/2013	9,981.50	91.30	1.80	7,930.36	2,614.55	DrilTech
9/28/2013	10,076.50	91.50	2.00	7,928.04	2,709.52	DrilTech
9/28/2013	10,170.50	90.10	0.90	7,926.73	2,803.50	DrilTech
9/28/2013	10,265.50	89.60	0.20	7,926.97	2,898.50	DrilTech
9/29/2013	10,360.50	90.40	1.60	7,926.97	2,993.50	DrilTech
9/29/2013	10,455.50	90.30	359.90	7,926.39	3,088.49	DrilTech
9/29/2013	10,545.50	90.10	357.60	7,926.08	3,178.49	DrilTech
9/29/2013	10,636.50	89.40	359.40	7,926.48	3,269.48	DrilTech
9/29/2013	10,727.50	90.10	0.10	7,926.87	3,360.48	DrilTech
9/29/2013	10,817.50	90.60	0.10	7,926.32	3,450.48	DrilTech
9/29/2013	10,908.50	90.80	359.40	7,925.21	3,541.47	DrilTech
9/29/2013	10,999.50	90.40	357.10	7,924.26	3,632.46	DrilTech
9/29/2013	11,090.50	90.30	1.30	7,923.70	3,723.44	DrilTech
9/29/2013	11,185.50	89.60	2.00	7,923.79	3,818.44	DrilTech
9/29/2013	11,279.50	90.80	3.60	7,923.46	3,912.43	DrilTech
9/29/2013	11,374.50	89.20	3.10	7,923.46	4,007.43	DrilTech
9/29/2013	11,469.50	87.40	3.10	7,926.28	4,102.38	DrilTech
9/29/2013	11,563.50	87.40	358.70	7,930.54	4,196.26	DrilTech
9/29/2013	11,658.50	88.00	358.80	7,934.35	4,291.19	DrilTech
9/29/2013	11,753.50	88.30	358.80	7,937.42	4,386.14	DrilTech
9/29/2013	11,847.50	88.50	358.50	7,940.05	4,480.10	DrilTech
9/29/2013	11,942.50	90.30	0.10	7,941.04	4,575.09	DrilTech
9/29/2013	12,037.50	90.80	359.00	7,940.13	4,670.08	DrilTech
9/29/2013	12,132.50	91.80	359.50	7,937.97	4,765.06	DrilTech
9/29/2013	12,226.50	87.30	358.10	7,938.71	4,859.03	DrilTech
9/29/2013	12,321.50	87.30	358.10	7,943.19	4,953.92	DrilTech
9/29/2013	12,416.50	88.50	357.80	7,946.67	5,048.85	DrilTech
9/29/2013	12,509.50	90.10	1.50	7,947.80	5,141.83	DrilTech

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
9/29/2013	12,604.50	91.00	2.20	7,946.89	5,236.82	DrilTech
9/29/2013	12,699.50	88.50	1.10	7,947.31	5,331.81	DrilTech
9/29/2013	12,794.50	91.10	0.90	7,947.64	5,426.80	DrilTech
9/29/2013	12,889.50	91.00	359.40	7,945.90	5,521.79	DrilTech
9/30/2013	12,984.50	91.50	357.40	7,943.83	5,616.76	DrilTech
9/30/2013	13,078.50	92.70	357.80	7,940.38	5,710.69	DrilTech
9/30/2013	13,173.50	91.50	0.40	7,936.90	5,805.62	DrilTech
9/30/2013	13,267.50	90.60	2.20	7,935.18	5,899.60	DrilTech
9/30/2013	13,362.50	90.60	2.90	7,934.18	5,994.59	DrilTech
9/30/2013	13,457.50	90.60	2.70	7,933.19	6,089.59	DrilTech
9/30/2013	13,552.50	89.60	1.80	7,933.02	6,184.58	DrilTech
9/30/2013	13,647.50	88.70	1.30	7,934.43	6,279.57	DrilTech
9/30/2013	13,741.50	89.20	1.80	7,936.15	6,373.56	DrilTech
9/30/2013	13,836.50	89.40	1.50	7,937.31	6,468.55	DrilTech
9/30/2013	13,931.50	90.30	2.00	7,937.56	6,563.55	DrilTech
9/30/2013	14,026.50	88.90	1.80	7,938.23	6,658.54	DrilTech
9/30/2013	14,120.50	89.40	2.00	7,939.62	6,752.53	DrilTech
9/30/2013	14,215.50	91.10	1.80	7,939.21	6,847.53	DrilTech
9/30/2013	14,310.50	91.30	2.00	7,937.22	6,942.51	DrilTech
9/30/2013	14,405.50	92.40	2.20	7,934.15	7,037.46	DrilTech
9/30/2013	14,498.50	92.00	359.50	7,930.58	7,130.38	DrilTech
9/30/2013	14,570.50	92.00	359.50	7,928.07	7,202.33	DrilTech
Date 12/12/2013		Description Sidetrack				
Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
	7,991.50	69.70	350.20	7,829.27	0.00	
	8,010.50	67.60	350.20	7,836.19	17.70	
	8,073.50	68.60	348.10	7,859.69	76.14	
	8,168.50	75.00	343.90	7,889.36	166.32	
	8,263.50	81.50	342.50	7,908.69	259.28	
	8,358.50	87.30	343.90	7,917.96	353.78	
	8,452.50	90.60	346.70	7,919.68	447.74	
	8,547.50	90.80	347.90	7,918.52	542.73	
	8,642.50	87.80	349.20	7,919.68	637.71	
	8,737.50	89.90	352.00	7,921.59	732.68	
	8,832.50	90.40	355.70	7,921.34	827.66	
	8,926.50	91.00	355.80	7,920.19	921.66	
	9,021.50	90.40	355.70	7,919.03	1,016.65	
	9,116.50	91.10	355.50	7,917.79	1,111.64	
	9,211.50	88.70	355.30	7,917.95	1,206.63	
	9,305.50	88.20	354.40	7,920.50	1,300.60	
	9,400.50	88.50	354.60	7,923.23	1,395.56	
	9,495.50	88.20	354.10	7,925.97	1,490.52	
	9,590.50	89.60	358.80	7,927.79	1,585.47	
	9,685.50	89.90	0.80	7,928.21	1,680.46	
	9,780.50	90.30	2.50	7,928.04	1,775.46	
	9,875.50	90.40	3.20	7,927.46	1,870.46	
	9,969.50	91.30	3.60	7,926.06	1,964.45	
	10,064.50	89.00	2.20	7,925.82	2,059.44	
	10,159.50	89.00	1.50	7,927.47	2,154.42	
	10,254.50	89.40	0.90	7,928.80	2,249.41	
	10,349.50	89.60	1.10	7,929.63	2,344.41	
	10,444.50	90.80	1.30	7,929.30	2,439.41	
	10,538.50	90.40	2.00	7,928.31	2,533.40	
	10,633.50	90.80	1.10	7,927.32	2,628.39	
	10,728.50	91.30	0.60	7,925.58	2,723.38	

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
	10,823.50	88.00	2.50	7,926.16	2,818.36	
	10,918.50	88.50	2.50	7,929.06	2,913.31	
	11,012.50	88.30	2.70	7,931.68	3,007.28	
	11,107.50	88.70	2.30	7,934.17	3,102.24	
	11,202.50	88.30	1.60	7,936.66	3,197.21	
	11,296.50	91.10	4.60	7,937.15	3,291.19	
	11,391.50	91.80	5.00	7,934.75	3,386.16	
	11,486.50	92.40	4.30	7,931.26	3,481.09	
	11,581.50	91.70	5.00	7,927.87	3,576.03	
	11,675.50	89.90	4.80	7,926.55	3,670.02	
	11,770.50	90.60	5.50	7,926.14	3,765.02	
	11,865.50	88.50	5.00	7,926.89	3,860.01	
	11,960.50	88.70	5.20	7,929.21	3,954.98	
	12,055.50	89.20	5.00	7,930.95	4,049.96	
	12,150.50	89.70	5.00	7,931.86	4,144.96	
	12,244.50	91.30	5.70	7,931.04	4,238.95	
	12,339.50	91.50	4.80	7,928.72	4,333.92	
	12,434.50	90.10	4.80	7,927.39	4,428.91	
	12,528.50	90.80	4.80	7,926.65	4,522.91	
	12,623.50	88.70	3.90	7,927.07	4,617.90	
	12,718.50	89.00	3.90	7,928.97	4,712.88	
	12,813.50	89.40	4.10	7,930.30	4,807.87	
	12,907.50	90.80	5.00	7,930.14	4,901.87	
	13,002.50	89.70	4.30	7,929.72	4,996.86	
	13,097.50	91.10	4.80	7,929.06	5,091.86	
	13,191.50	89.90	3.80	7,928.24	5,185.85	
	13,286.50	89.60	3.20	7,928.65	5,280.85	
	13,381.50	89.60	3.20	7,929.32	5,375.85	
	13,476.50	90.10	3.10	7,929.57	5,470.85	
	13,570.50	90.30	3.10	7,929.24	5,564.85	
	13,665.50	89.70	2.50	7,929.24	5,659.85	
	13,760.50	90.40	2.20	7,929.15	5,754.85	
	13,854.50	90.40	2.20	7,928.50	5,848.84	
	13,949.50	88.20	2.20	7,929.66	5,943.83	
	14,044.50	88.70	2.30	7,932.23	6,038.80	
	14,139.50	89.40	2.30	7,933.80	6,133.78	
	14,234.50	90.60	1.60	7,933.80	6,228.78	
	14,376.50	90.60	1.60	7,932.32	6,370.77	
Date		Description				
12/22/2013		Sidetrack 2				
Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
	11,202.50	88.30	1.60	7,936.66	0.00	
12/23/2013	11,296.50	87.10	359.50	7,940.43	93.92	Integrity Directional Services
12/23/2013	11,391.50	87.40	355.00	7,944.99	188.78	Integrity Directional Services
12/23/2013	11,486.50	89.00	356.20	7,947.98	283.73	Integrity Directional Services
12/23/2013	11,581.50	90.40	358.70	7,948.47	378.72	Integrity Directional Services
12/23/2013	11,676.50	90.40	1.10	7,947.81	473.71	Integrity Directional Services
12/23/2013	11,770.50	90.30	3.20	7,947.24	567.70	Integrity Directional Services
12/23/2013	11,865.50	89.00	2.50	7,947.82	662.70	Integrity Directional Services
12/23/2013	11,960.50	90.40	3.90	7,948.31	757.69	Integrity Directional Services
12/23/2013	12,055.50	89.40	3.10	7,948.48	852.69	Integrity Directional Services
12/23/2013	12,150.50	93.10	6.20	7,946.41	947.64	Integrity Directional Services
12/23/2013	12,244.50	91.10	5.00	7,942.96	1,041.57	Integrity Directional Services
12/23/2013	12,339.50	89.70	3.90	7,942.30	1,136.57	Integrity Directional Services
12/23/2013	12,434.50	90.40	3.60	7,942.22	1,231.56	Integrity Directional Services
12/23/2013	12,528.50	89.20	2.50	7,942.55	1,325.56	Integrity Directional Services

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
12/23/2013	12,623.50	91.00	3.60	7,942.38	1,420.56	Integrity Directional Services
12/23/2013	12,718.50	91.80	3.20	7,940.06	1,515.53	Integrity Directional Services
12/23/2013	12,813.50	92.40	3.20	7,936.58	1,610.46	Integrity Directional Services
12/23/2013	12,907.50	89.60	2.90	7,934.94	1,704.44	Integrity Directional Services
12/23/2013	13,002.50	89.20	2.30	7,935.93	1,799.43	Integrity Directional Services
12/23/2013	13,097.50	91.00	3.80	7,935.77	1,894.43	Integrity Directional Services
12/23/2013	13,191.50	91.00	2.90	7,934.13	1,988.41	Integrity Directional Services
12/23/2013	13,286.50	92.00	2.20	7,931.64	2,083.38	Integrity Directional Services
12/23/2013	13,381.50	89.90	2.90	7,930.06	2,178.36	Integrity Directional Services
12/23/2013	13,476.50	87.40	3.40	7,932.30	2,273.32	Integrity Directional Services
12/23/2013	13,570.50	87.40	2.90	7,936.57	2,367.23	Integrity Directional Services
12/23/2013	13,665.50	86.90	2.70	7,941.29	2,462.11	Integrity Directional Services
12/23/2013	13,760.50	88.90	4.50	7,944.77	2,557.03	Integrity Directional Services
12/23/2013	13,854.50	89.60	5.70	7,946.00	2,651.02	Integrity Directional Services
12/23/2013	13,949.50	89.90	5.50	7,946.42	2,746.02	Integrity Directional Services
12/23/2013	14,044.50	89.20	4.80	7,947.16	2,841.02	Integrity Directional Services
12/23/2013	14,139.50	90.30	5.20	7,947.58	2,936.02	Integrity Directional Services
12/23/2013	14,234.50	89.40	3.80	7,947.82	3,031.01	Integrity Directional Services
12/23/2013	14,329.50	90.30	4.30	7,948.07	3,126.01	Integrity Directional Services
12/23/2013	14,424.50	92.60	5.30	7,945.67	3,220.97	Integrity Directional Services
12/23/2013	14,518.50	93.30	4.60	7,940.83	3,314.85	Integrity Directional Services
12/23/2013	14,613.50	91.70	4.10	7,936.69	3,409.75	Integrity Directional Services
12/23/2013	14,708.50	90.60	4.10	7,934.78	3,504.73	Integrity Directional Services
12/23/2013	14,803.50	89.70	3.20	7,934.53	3,599.73	Integrity Directional Services
12/23/2013	14,898.50	89.70	2.70	7,935.03	3,694.73	Integrity Directional Services
12/23/2013	14,992.50	89.00	1.50	7,936.10	3,788.72	Integrity Directional Services
12/23/2013	15,087.50	89.90	4.50	7,937.01	3,883.70	Integrity Directional Services
12/23/2013	15,182.50	90.60	4.80	7,936.59	3,978.70	Integrity Directional Services
12/23/2013	15,277.50	91.50	5.30	7,934.85	4,073.69	Integrity Directional Services
12/23/2013	15,372.50	92.00	5.30	7,931.95	4,168.64	Integrity Directional Services
12/23/2013	15,466.50	90.60	4.60	7,929.82	4,262.61	Integrity Directional Services
12/23/2013	15,561.50	89.70	4.50	7,929.57	4,357.61	Integrity Directional Services
12/23/2013	15,656.50	88.70	3.80	7,930.90	4,452.60	Integrity Directional Services
12/23/2013	15,751.50	88.30	3.40	7,933.38	4,547.57	Integrity Directional Services
12/23/2013	15,845.50	89.40	3.10	7,935.27	4,641.55	Integrity Directional Services
12/23/2013	15,940.50	91.00	3.90	7,934.94	4,736.54	Integrity Directional Services
12/23/2013	16,035.50	91.80	3.90	7,932.62	4,831.52	Integrity Directional Services
12/23/2013	16,130.50	91.70	3.60	7,929.72	4,926.47	Integrity Directional Services
12/23/2013	16,164.50	92.00	3.60	7,928.62	4,960.45	Integrity Directional Services
12/23/2013	16,259.50	90.30	5.20	7,926.71	5,055.43	Integrity Directional Services
12/23/2013	16,354.50	89.90	5.20	7,926.55	5,150.43	Integrity Directional Services
12/23/2013	16,448.50	89.40	4.60	7,927.12	5,244.42	Integrity Directional Services
12/23/2013	16,543.50	90.30	5.90	7,927.37	5,339.42	Integrity Directional Services
12/23/2013	16,638.50	91.70	7.10	7,925.71	5,434.40	Integrity Directional Services
12/23/2013	16,732.50	89.90	5.30	7,924.40	5,528.39	Integrity Directional Services
12/23/2013	16,827.50	89.20	4.60	7,925.15	5,623.38	Integrity Directional Services
12/23/2013	16,922.50	88.90	4.10	7,926.72	5,718.37	Integrity Directional Services
12/23/2013	17,017.50	89.00	4.50	7,928.46	5,813.35	Integrity Directional Services
12/23/2013	17,112.50	88.90	4.30	7,930.20	5,908.34	Integrity Directional Services
12/23/2013	17,206.50	89.90	5.00	7,931.19	6,002.33	Integrity Directional Services
12/23/2013	17,301.50	90.40	5.50	7,930.94	6,097.33	Integrity Directional Services
12/23/2013	17,396.50	91.10	5.50	7,929.69	6,192.32	Integrity Directional Services
12/23/2013	17,491.50	91.50	5.70	7,927.54	6,287.29	Integrity Directional Services
12/23/2013	17,585.50	89.20	4.30	7,926.97	6,381.28	Integrity Directional Services
12/23/2013	17,680.50	88.90	4.30	7,928.54	6,476.27	Integrity Directional Services
12/23/2013	17,775.50	89.90	4.60	7,929.54	6,571.26	Integrity Directional Services

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 17H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
12/23/2013	17,870.50	89.90	4.60	7,929.70	6,666.26	Integrity Directional Services
12/23/2013	17,964.50	89.90	3.80	7,929.86	6,760.26	Integrity Directional Services
12/23/2013	18,059.50	90.10	3.40	7,929.86	6,855.26	Integrity Directional Services
12/23/2013	18,226.50	90.10	3.40	7,929.57	7,022.26	Integrity Directional Services