

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

API/UWI 42-383-38371-0000		Property Sub 927146-007		Operator PIONEER NATURAL RESRC USA, INC		State TEXAS		County REAGAN	
Field Name SPRABERRY (TREND AREA)		Surface Legal Location 2015' FSL/ 707' FWL, SEC: 12, BLK: 10, SVY: University Lands							
Spud Date 8/5/2013		TD Date 8/19/2013		Drilling Rig Release Date 8/22/2013		Frac Date 9/28/2013		On Production Date 11/14/2013	
Initial Potential Date 11/22/2013									
Ground Elevation (ft) 2,647.00		Original KB Elevation (ft) 2,673.50		PBTD (All) (ftGRD) Original Hole - 15,475.3		Total Depth (All) (ftGRD) Original Hole - 15,556.5		Total Depth All (TVD) (ftGRD) Original Hole - 7,658.1	
<b>Report #: 1 Daily Operation: 8/4/2013 06:00 - 8/5/2013 06:00</b>									
Job Category ORIG DRILLING				Primary Job Type ODR				AFE Number 027547	
Days From Spud (days) 0		Days on Location (days) 1		End Depth (ftGRD) -26.5		End Depth (TVD) (ftGRD)		Dens Last Mud (lb/gal) 8.40	
Rig PATTERSON - UTI, 225									
<p><b>Operations Summary</b>          Finish rigging down miscellaneous, prep rig for skid. PJSM on skidding rig over to University 10-1 7H. Move out equipment around substructure before skidding. Skid rig over to University 10-1 7H. Set equipment back in place. Rig up miscellaneous equipment, prep rig for spud. Perform pre spud inspection.</p> <p><b>Remarks</b>          Rig (Patterson 225) &amp; Well Progress: 1.00 days on location, 0 days since rig accepted on, 0 days since spud. Rig move day's 1.00</p> <p>Rig NPT:0.0 hours for previous 24 hours.0.00 NPT hours for August.</p> <p>Completion percentage: Surface- 0%, Intermediate- 0%, Curve- 0%, Lateral- 0%</p> <p>Rig move: 100% rigged down, 100% rigged up, 100% moved.</p> <p>Estimated spud date: 8/5/2013, 0800 hours.</p> <p>No corrosion ring in string.</p> <p>Contacted TRRC with intent to spud, run &amp; cement 13 3/8" Surface Casing on University 10-1 7H @ 2100hrs on 8/4/13. Spoke with operator Rene out of San Angelo, TX. Phone number (325) - 657 - 7450.</p>									
<b>Time Log Summary</b>									
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com			
8/4/2013 06:00	8/4/2013 06:30	0.5	SURF-SKID	BATCH DRILLED WELLS - SKID TO NEXT WELL	SKID	Rig down rig			
8/4/2013 06:30	8/4/2013 07:00	0.5	PLAN	PERS	SFTY	Safety meeting w/ Patterson crews, T Force trucking crews, PNR personal			
8/4/2013 07:00	8/4/2013 09:00	2	SURF-SKID	BATCH DRILLED WELLS - SKID TO NEXT WELL	SKID	Move equipment from sub before skid, cummy, water tanks, generators, gas separator, suit cases, pipe wrangler, # 1 pump, change house			
8/4/2013 09:00	8/4/2013 15:00	6	SURF-SKID	BATCH DRILLED WELLS - SKID TO NEXT WELL	SKID	Attempt to skid 30' w/ 2-cranes, 1-tandem, 1-gen truck, 4-haul trucks and 1-forklift. 1st attempt no sliding remove BOP handler, pick up in front and add soap under skid, 2nd attempt no skidding pickup from drawworks end and add soup and grease. 3rd attempt skided sub 1' (damage to grasshopper brace to sub, Patterson welder repair) skid sub every 6' adding mats till over hole.			
8/4/2013 15:00	8/4/2013 21:00	6	SURF-SKID	BATCH DRILLED WELLS - SKID TO NEXT WELL	SKID	Move Diesel tanks, VFD house, 3 generator skids, change house, parts house, water tanks, top drive house, and accumulator back into proper position. Spot pipe wrangler in place and install V-door. Move mud pumps and mud tanks and spot in place. Set in Horizon silo's and premix pit into position. Hang off flow line on substructure. Cover up cellar on University 10-1 8H with steel plate.			
						Note: Tforce rig movers finished setting in equipment @ 2100hrs.			
8/4/2013 21:00	8/5/2013 04:00	7	SURF-SKID	BATCH DRILLED WELLS - SKID TO NEXT WELL	SKID	Rig up miscellaneous equipment on mud pumps and duck pond. Connect electrical power lines to drawworks. Connect all electrical lines on mud tanks. Connect all electrical lines to VFD house. Set electrical lines in suitcases. Connect rig air lines. Fill mud tanks and rig day tank with H2O, check for leaks (no leaks). Rig up diesel trash pumps to jet out cellar while drilling surface hole.			
						Note: Patterson toolpusher began pre spud inspection @ 0400hrs 8/5/13.			

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Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/5/2013 04:00	8/5/2013 06:00	2	SURF-SKID	BATCH DRILLED WELLS - SKID TO NEXT WELL	SKID	Patterson toolpusher performing pre spud inspection. Load out bit sub, shock sub, 3 8" DC's, X/O, HWDP. Strap & Caliper surface hole BHA.  Note: KSW working on floating reserve pumps, changing rotation on two outer reserve pumps. Estimated spud time @ 0800hrs 8/5/13.

Report #: 2 Daily Operation: 8/5/2013 06:00 - 8/6/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 027547
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
1	2	633.5	633.5	8.40	PATTERSON - UTI, 225	

#### Operations Summary

Perform pre spud inspection. Rig service. Load & Strap BHA #1. MU BHA #1. Spud University 10 - 1 7H @ 1300 hrs 8/6/13. Rotate drilling F/144' - 660', took wireline survey's @ 301' and 500'. Pump high vis sweep. Run Gyro. TOH to run 13 3/8" casing, spot LCM pill above loss zone @ 200'. RU Express casing crew and run 13 3/8" casing with no problems encountered. RD Express casing crew equipment and load cementing equipment on rig floor. Circulate 1.5X casing capacity 153 bbls with no returns to surface. Rig up Schlumberger cementers.

#### Remarks

Rig (Patterson 225) & Well Progress: 2.00 days on location, .92 days since rig accepted on, .71 days since spud. Rig move day's 1.00

Rig NPT:0.0 hours for previous 24 hours.0.00 NPT hours for August.

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

No corrosion ring in string.

Spud University 10-1 7H @ 1300hrs 8/6/13.

Contacted TRRC with intent to spud, run & cement 13 3/8" Surface Casing on University 10-1 7H @ 2100hrs on 8/4/13. Spoke with operator Rene out of San Angelo, TX. Phone number (325) - 657 - 7450.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/5/2013 06:00	8/5/2013 07:00	1	MOBILIZATION	MIRU	MIRU	Finish performed Patterson comprehensive rig inspection.
8/5/2013 07:00	8/5/2013 08:00	1	SURF-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Inspect derrick, maxi rider & top drive, grease blocks, crown & top drive
8/5/2013 08:00	8/5/2013 09:30	1.5	MOBILIZATION	MIRU	MIRU	Tallied and callipered the ID and OD of all BHA components. put in place, 2nd cellar pump, replace reserve pumps, over flow for active pits back to reserve.
8/5/2013 09:30	8/5/2013 13:00	3.5	SURF-TIH	TRIP IN HOLE	TIH	P/U and M/U 17 1/2" Ulterra PDC bit model U616S SN# 20834 (note) change jets to 10 from 14, bit sub with float and crows foot, 8" shock tool, 2 x 8" DC, 17 1/4" IBS, 1 x 8" DC, X/O 6 5/8" Reg to 4 1/2" XH, X/O 4 1/2" XH to 4 1/2" IF to 1 jt HWDP and to tag at bottom at 144'.
8/5/2013 13:00	8/5/2013 16:30	3.5	SURF-DRILL	DRILL SURFACE	DRL	Rotate drilling 17 1/2" surface hole 216' @ 61'/hr. 10 - 15 wob, 60 rpm, 5 - 7k ft/lbs tq, 70-100 spm, 425-800 spp, 293-420 gpm. Note: Spud the University 10-1 #7H @ 1:00 pm. Lost total returns starting @ 202' mixing paper, cotton seed hulls & cedar fiber.
8/5/2013 16:30	8/5/2013 17:00	0.5	PLAN	DRLG	DEVSUR	Run wireline survey.  Survey depth: 301' Inc= 0.67°
8/5/2013 17:00	8/5/2013 18:30	1.5	SURF-DRILL	DRILL SURFACE	DRL	Rotate drilled 17 1/2" hole 182' @ 121'/hr, 70 spm, 293 gpm, 800 spp, 100 RPM, 12-15 wob, 5-8 k tq. No returns to surface.
8/5/2013 18:30	8/5/2013 19:00	0.5	PLAN	DRLG	DEVSUR	Run wireline survey.  Survey depth: 500' Inc= 0.23°
8/5/2013 19:00	8/5/2013 20:30	1.5	SURF-DRILL	DRILL SURFACE	DRL	Rotate drilled 17 1/2" hole 118' @ 79'/hr, 70 spm, 293 gpm, 850 spp, 100 RPM, 12-15 wob, 5-8 k tq. No returns to surface.
8/5/2013 20:30	8/5/2013 21:00	0.5	SURF-CIRC	CIRCULATE	CIRC	Pump 60 bbl high vis sweep to clean the hole. No returns to surface.

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Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/5/2013 21:00	8/5/2013 22:00	1	PLAN	DRLG	DEVSUR	Rig up Multi Shot and run Gyro every 100' to TD.  Depth Inc Azm 100.00 0.36 153.51 200.00 0.58 109.10 300.00 0.43 74.96 400.00 0.54 169.56 500.00 0.82 161.60 600.00 0.68 160.49 613.00 0.66 154.67
8/5/2013 22:00	8/5/2013 23:00	1	SURF-TRIP	TOOH	TRIP	TOH with 5 stands of HWDP.
8/5/2013 23:00	8/5/2013 23:30	0.5	SURF-CIRC	CIRCULATE	CIRC	Pump 80 bbl 30 ppb LCM pill and spot on top of loss zone @ 200'. No returns to surface.
8/5/2013 23:30	8/6/2013 00:30	1	SURF-TRIP	TOOH	TRIP	Continue to TOH to run 13 3/8" 48 ppf J-55 STC Surface Casing. Lay down X/O sub, stabilizer, and break bit off. Lay down shock sub and bit sub. Stand back 1 stand of 8" DC's in derrick.
8/6/2013 00:30	8/6/2013 02:30	2	SURF-CASE	RUN SURFACE CASING	CASE	Remove rig bails and elevators. Install casing bails and elevators, connect link tilts on casing bails. Rig up Express power tongs and hydraulic lines. Pick up remaining equipment and set on rig floor (slip bowl, slips, centralizers, float shoe, and float collar).
8/6/2013 02:30	8/6/2013 05:00	2.5	SURF-CASE	RUN SURFACE CASING	CASE	PJSM with Express casing crew. Run 13-3/8" 48 ppf J-55 STC F/ surface - 654'. Filled pipe at 10 joints ran. No returns to surface.  Shoe @ 654' Float Collar @ 608.87' Centralizers: 1st ran on stop ring in middle of first joint (631'). 2nd ran on stop ring 5' above float collar (604'). 3rd @ 492'. 4th @ 368'. 5th @ 245'.
8/6/2013 05:00	8/6/2013 06:00	1	SURF-CIRC	CIRCULATE	CIRC	Rig down Express casing crew equipment. Load cement head and chicksons up to rig floor. Spot Schlumberger cementing crew, and load remaining equipment up to rig floor and rig up same. Pump 1.5x casing capacity with no returns to surface prior to rigging up cementing crew.

**Report #: 3 Daily Operation: 8/6/2013 06:00 - 8/7/2013 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 027547	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
2	3	633.5	633.5	8.40	PATTERSON - UTI, 225		

Operations Summary  
Cement 13 3/8" Surface Casing. Run temp log to get a base line temperature, established cement top on first run. Top out cement between 13 3/8" Surface Casing & Conductor, top out successful. Install well head. NU BOP & Test. PU directional tools.

Remarks  
Rig (Patterson 225) & Well Progress: 3.00 days on location, 1.92 days since rig accepted on, 1.71 days since spud. Rig move day's 1.00

Rig NPT:0.0 hours for previous 24 hours.0.00 NPT hours for August.

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

No corrosion ring in string.

Built 2000 bbls of pre hydrated gel mud in last 24hrs to be ready to displace @ 4,000'.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/6/2013 06:00	8/6/2013 07:30	1.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Spot in place, Schlumberger cement trucks, and rig up tools & cement head
8/6/2013 07:30	8/6/2013 08:00	0.5	PLAN	PERS	SFTY	Safety meeting w/ cement & rig hands crews. Check volume w/ cement supervisor all good

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/6/2013 08:00	8/6/2013 09:30	1.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Cement 13 3/8 casg with no returns. Tail Slurry: 20 bbl spacer w/ 548 sks Class "C" cement (166 bbl's) with 3% Extender and 2.0% Calcium Chloride. Displace with 97 bbls of fresh water, pump 2 bbl over to bump plug. Plug bumped & floats held.
8/6/2013 09:30	8/6/2013 10:00	0.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Rig down cement head from casing
8/6/2013 10:00	8/6/2013 12:30	2.5	SURF-LOG	LOG	LOG	Run 1 cement temperature logs & R/D MS Survey and rig down  Note: 1st run determind cement top to be @ 196' MS having problems with computer got tech support working on issue
8/6/2013 12:30	8/6/2013 13:30	1	SURF-CMT	CEMENT SURFACE CASING	CMT	Run 1" pipe to 120' GL. pipe would not go any farther, rig up cement connection to pipe and secure
8/6/2013 13:30	8/6/2013 14:30	1	SURF-CMT	CEMENT SURFACE CASING	CMT	Start top job from 196' to surface. Pump 135 sacks (32 bbl) between surface & conductor got cement to top of surface. Cement fell 1' from top of conductor
8/6/2013 14:30	8/6/2013 15:00	0.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Pull 1' pipe, wash out joints from cement, rig down cements. Cement fell 1/2' but come from pulling pipe out.
8/6/2013 15:00	8/6/2013 19:00	4	INT-NU/TEST	NIPPLE UP/TST	NU/TEST	Welder drained cement from casing and performed rough cut on surface casing. PNR representative, welder, and seaboard representative measured final cut to set top of B section 18" below ground level. Perform final cut and bevel. Set multi bowl starting head on casing. Two hole well head and verify level with PNR representative present (ok). Weld well head and test to 370 psi for 5 min, pressure held ok.
8/6/2013 19:00	8/6/2013 22:00	3	PLAN	EQUIP	BOPS	Lift BOP with handler and stab on top of Multi bowl well head. Install bell nipple onto BOP stack. Install turnbuckles and center stack over hole. NU dresser sleeve on flowline. NU choke line and kill line.
8/6/2013 22:00	8/7/2013 03:00	5	PLAN	EQUIP	WLHEAD	PJSM on testing BOP stack with ETS testing crew, rig crew, and co man present. ETS testing unit operator tested choke line, kill line, and choke manifold to 250 psi low / 2,500 psi high. Tested TIW Valves and stand pipe valves to 250 psi low, 2,500 psi high. Test lines back to the pumps to 250 psi low, 2,500 psi high. Tested blind rams, pipe rams, and annular to 250 low, 2,500 high. Tested surface casing to 1,000 psi for 30 minutes (good test).
8/7/2013 03:00	8/7/2013 03:30	0.5	PLAN	EQUIP	BHA	Install long wear bushing and secure to well head. PU 12 1/4" Smith MSi619 PDC bit and subs to be used in directional bha and set on rig floor.
8/7/2013 03:30	8/7/2013 06:00	2.5	PLAN	EQUIP	BHA	PJSM on picking up directional tools, discuss tool sequence with driller and crew. PU 7/8 lobe 4.0 stage mud motor set @ 2.00° (.17 rev/gal). PU shock sub and UBHO (orient UBHO). PU NMDC and install MWD. Shallow test directional tools (good test). PU and make up 12 1/4" Smith MSi619 PDC bit. PU top NMDC.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 4 Daily Operation: 8/7/2013 06:00 - 8/8/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 027547
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
3	4	2,607.5	2,607.2	8.70	PATTERSON - UTI, 225	

### Operations Summary

Finish picking up BHA #2. TIH. Drill out float equipment. Rotate Drlg F/660' - 1,115'. Rig service. Rotate Drlg f/1,115' - 1,591'. Short trip to shoe to work on pump #2 power, receptacles burned up while experiencing heavy rain. Rotate/Slide Drlg F/1,591 - 2,634'.

### Remarks

Rig (Patterson 225) & Well Progress: 4.00 days on location, 2.92 days since rig accepted on, 2.71 days since spud. Rig move day's 1.00

Rig NPT: 2.5 hours for previous 24 hours.0.00 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 28%, Curve- 0%, Lateral- 0%

Corrosion ring in string 8/7/13 @ 0600hrs. Hours in string= 24.

BOP drill @ 1500 hrs 8/7/13.

Survey @ 2,291' Inc= 1.8 Azm= 344.5 Tvd= 2,290.86' (Closure distance plan #6=14.86' @ 135.86°) (Closure distance to 10-1 #8H= 65.57' @ 53.55°)

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/7/2013 06:00	8/7/2013 07:00	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Finish, P/U 8" NMDC, install MWD tool, and perform surface test (test good), M/U bit, P/U last 8" NMDC
8/7/2013 07:00	8/7/2013 09:30	2.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/ 1 std 8" DC, pick up X-O sub, 6-61/2" DC from cat walk, 3 stds wevi wt DP. Tag @ 598' Note: corrosion ring location, 6" drill collars and hevi weight drill pipe in top of X-O sub
8/7/2013 09:30	8/7/2013 10:30	1	UNPLANNED	Surface Equipment not related to Rig (eg, cuttings)	U_SEQ	Reserve pump supplying water to active pits not working, pick up and reposition float pumps and add over flow from active to reserve
8/7/2013 10:30	8/7/2013 11:30	1	PLAN	DRLG	DRLCMT	Drilling cement & shoe track. Tag depths: cement @ 598', float collar @ 606', and float shoe @ 651'. 10k wob, 30 rpm, 1500 - 2500 ft/lbs torque, 800 spp, and 100 spm (418 gpm).
8/7/2013 11:30	8/7/2013 12:00	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section 33' @ 66 ft/hr. 10k wob, 100 spm, 418 gpm, 30 top drive rpm's, 3000k torque, 71 motor revolutions/min, 101 total bit revolutions/min, 846 spp, 150 diff. Circulating outside reserve with full returns.
8/7/2013 12:00	8/7/2013 12:30	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section 145' @ 290 ft/hr. 20-30k wob, 180 spm, 756 gpm, 70 top drive rpm's, 7500k torque, 129 motor revolutions/min, 200 total bit revolutions/min, 2,350 spp, 300 - 500 diff. Circulating outside reserve with full returns.
8/7/2013 12:30	8/7/2013 13:00	0.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Pull 1 std add jars above 12 jnt HW, TIH 1 std. want jars in hole for safety
8/7/2013 13:00	8/7/2013 15:00	2	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section 277' @ 139 ft/hr. 20-30k wob, 180 spm, 756 gpm, 100 top drive rpm's, 7500k torque, 129 motor revolutions/min, 229 total bit revolutions/min, 2,350 spp, 300 - 500 diff. Circulating outside reserve with full returns.
8/7/2013 15:00	8/7/2013 16:00	1	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig & top drive.
8/7/2013 16:00	8/7/2013 18:30	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section F/1,115' - 1,591'. 476' @ 190 ft/hr. 20 - 30k wob, 180 spm, 752 gpm, 70 top drive rpm's, 10-12k torque, 128 motor revolutions/min, 228 total bit revolutions/min, 2,600 spp, 350-450 diff. Circulating outside reserve with full returns.
8/7/2013 18:30	8/7/2013 19:30	1	INT-CIRC	CIRCULATE	CIRC	Troubleshoot mud pump #2. Pump would not engage after making a connection. Reset pump on rig floor and inside VFD house and pump would still not engage. Chased electrical line and found that power male & female receptacles had burned up.  Note: Pump #2 went down while experiencing heavy rain.

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Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/7/2013 19:30	8/7/2013 20:30	1	INT-TRIP	TOOH	TRIP	TOH to shoe. Contacted Dave Williams about incident and the decision was made to trip out to inside shoe @ 660'nd until pump #2 was operational.
8/7/2013 20:30	8/7/2013 23:00	2.5	UNPLAN	EQUIP	U_RIG	Waiting on electrician. Electrician arrived promptly on location by 2145 hrs. First call was made @ 1930 hrs. Changed out camlocks on both end of pump #2. Test pump #2, run for 10 min (good test).
8/7/2013 23:00	8/8/2013 00:00	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/ Shoe - 1,591'. Hole displacing properly on each stand ran in hole.
8/8/2013 00:00	8/8/2013 03:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section F/1,591' - 2,160'. 568' @ 190 ft/hr. 30 - 40k wob, 180 spm, 752 gpm, 100 top drive rpm's, 10-12k torque, 128 motor revolutions/min, 228 total bit revolutions/min, 2,600 spp, 600 - 750 diff. Circulating outside reserve with full returns.
8/8/2013 03:00	8/8/2013 03:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide drilling in 12 1/4" Intermediate section F/2,160' - 2,185'. 25' @ 50 ft/hr. 10 - 20k wob, 180 spm, 752 gpm, 2,150 spp, 250 - 350 psi diff, 350 mtf, 120 motor revolutions/min, 128 total bit revolutions/min. Circulating outside reserve with full returns.
8/8/2013 03:30	8/8/2013 06:00	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section F/2,185' - 2,634'. 449' @ 180 ft/hr. 30 - 40k wob, 180 spm, 752 gpm, 100 top drive rpm's, 11-13k torque, 128 motor revolutions/min, 228 total bit revolutions/min, 2,800 spp, 600 - 750 diff. Circulating outside reserve with full returns.

Report #: 5 Daily Operation: 8/8/2013 06:00 - 8/9/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 027547
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Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig
4	5	4,124.5	4,121.4	8.80	PATTERSON - UTI, 225

#### Operations Summary

Drill Intermediate Section F/ 2,634' - 3,107', TOH to change out bit due to reduced R.O.P., Drill Intermediate Section F/ 3,701' - 4,151', Displaced hole with dispersed WBM @ 3,582'

#### Remarks

Rig (Patterson 225) & Well Progress: 5.00 days on location, 3.92 days since rig accepted on, 3.71 days since spud. Rig move day's 1.00

Rig NPT: 2.5 hours for previous 24 hours.0.00 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 50%, Curve- 0%, Lateral- 0%

Corrosion ring in string 8/7/13 @ 0600hrs. Hours in string= 48.

PTB= 4,151' md, .9° inc, 54.2° azm. 28' Ahead, 14' Right of Plan #6, 142' F/ 10-1 8H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/8/2013 06:00	8/8/2013 06:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide drilling in 12 1/4" Intermediate section F/2,634' - 2,654'. 20' @ 40 ft/hr. 10 - 20k wob, 180 spm, 752 gpm, 2,150 spp, 250 - 350 psi diff, 350 mtf, 120 motor revolutions/min, 128 total bit revolutions/min. Circulating outside reserve with full returns.
8/8/2013 06:30	8/8/2013 08:00	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section F/2,654' - 2,918'. 264' @ 176 ft/hr. 40 - 50k wob, 180 spm, 752 gpm, 110 top drive rpm's, 9-12k torque, 128 motor revolutions/min, 228 total bit revolutions/min, 2,800 spp, 400 - 550 diff. Circulating outside reserve with full returns.
8/8/2013 08:00	8/8/2013 09:30	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section F/2,918' - 3,013'. 95' @ 63 ft/hr. 40 - 50k wob, 180 spm, 752 gpm, 80 top drive rpm's, 9-12k torque, 128 motor revolutions/min, 228 total bit revolutions/min, 2,900 spp, 400 - 550 diff. Circulating outside reserve with full returns.  Note: Decreased rpm F/110 - 80 to stay under critical rpm zone with inclination @ 5°. ROP fell off to under 100'/hr.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/8/2013 09:30	8/8/2013 10:30	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling in 12 1/4" Intermediate section F/3,013' - 3,107'. 94' @ 94 ft/hr. 50k wob, 180 spm, 752 gpm, 120 top drive rpm's, 11-12k torque, 128 motor revolutions/min, 228 total bit revolutions/min, 2,900 spp, 400 - 550 diff. Pumped 50 bbl viscous sweep and will circulate around prior to TOH due to ROP. Circulating outside reserve with full returns.  Note: Increased rpm F/80 - 120 above critical rpm zone with inclination @ 5°. ROP holding steady @ 100'/hr. Torque smoother @ 120 rpm.
8/8/2013 10:30	8/8/2013 11:00	0.5	INT-CIRC	CIRCULATE	CIRC	Build and pump 50 bbl 20 lb/bbl LCM pill and spot on bottom.
8/8/2013 11:00	8/8/2013 15:00	4	INT-TRIP	TOOH	TRIP	TOH due to ROP. Motor appeared to be in good condition when visually inspected, will re run same. Bit showed excessive damage, swapped out for 12 1/4" Ulterra U619M PDC Bit dressed with 6/13's (.77 tfa). Set MWD back in place.  Note: TOH with 5 stands of DP, filled hole using trip tank, and checked for flow. Well was static, continued to TOH to check bit & motor. Hole took proper displacement throughout TOH.
8/8/2013 15:00	8/8/2013 16:00	1	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Rig service. Grease top drive & blocks. Checked fluid level on top drive, added 3 gal hydraulic oil.
8/8/2013 16:00	8/8/2013 18:30	2.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH F/ BHA - 3,013', no problems encountered on trip, hole displaced properly
8/8/2013 18:30	8/8/2013 19:30	1	INT-CIRC	CIRCULATE	CIRC	Fill pipe and wash to bottom F/ 3,013' - 3,107', fan bottom before returning to drilling
8/8/2013 19:30	8/8/2013 20:00	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 23' @ 46'/Hr, 180 spm, 754 gpm, 3,130 spp, 550-650 psi diff, 120 mtf, 121 motor rpm's, 121 total bit rpm's, 30- 35 k wob.
8/8/2013 20:00	8/8/2013 21:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 167' @ 167'/hr, 180 spm, 754 gpm, 3,250 spp, 550-650 diff psi, 80 top drive rpm, 121 motor rpm, 201 total bit rpm, 35k-40k wob, 10.5k ft/lbs trq.
8/8/2013 21:00	8/8/2013 22:00	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 25' @ 25'/Hr, 170 mtf
8/8/2013 22:00	8/8/2013 23:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 165' @ 165'/hr
8/8/2013 23:00	8/9/2013 00:00	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 30' @ 30'/Hr, 120 mtf
8/9/2013 00:00	8/9/2013 01:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 160' @ 160'/hr  Displaced hole @ 3582' with 770 bbls of dispersed WBM, 195 bbls ( 34%) over the 575 bbls calculated
8/9/2013 01:00	8/9/2013 02:00	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 20' @ 20'/Hr, 260 mtf
8/9/2013 02:00	8/9/2013 03:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 169' @ 169'/hr
8/9/2013 03:00	8/9/2013 04:00	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 25' @ 25'/Hr, 270 mtf
8/9/2013 04:00	8/9/2013 04:30	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 70' @ 140'/hr
8/9/2013 04:30	8/9/2013 05:00	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 30' @ 60'/Hr, 270 mtf
8/9/2013 05:00	8/9/2013 06:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 165' @ 165'/hr, 120 top drive rpm, 121 motor rpm, 241 total bit rpm

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 6 Daily Operation: 8/9/2013 06:00 - 8/10/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 027547
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
5	6	6,017.5	6,013.2	9.00	PATTERSON - UTI, 225	

Operations Summary  
Drill Intermediate Section F/ 4,151' - 6,044', TOH F/ 6,044' - 3,810', Back reamed through tight hole F/ 3,810' - 3,554', continued TOH on elevators F/ 3,554' - 2,550'

Remarks  
Rig (Patterson 225) & Well Progress: 6.00 days on location, 4.92 days since rig accepted on, 4.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 77%, Curve- 0%, Lateral- 0%

Corrosion ring in string 8/7/13 @ 0600hrs. Hours in string= 72.

PTB= 6,044' md, 6.2° inc, 353.2° azm. 54' Ahead, 15' Right of Plan #6

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/9/2013 06:00	8/9/2013 08:30	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling 474' @ 190'/hr. 35k wob, 180 spm, 752 gpm, 120 top drive rpm's, 14-16k torque, 128 motor revolutions/min, 228 total bit revolutions/min, 3,500 spp, 650 - 750 diff.  Note: Pumping 10 bbl viscous sweeps every stand with 20 lb/bbl LCM content to help prevent losses (15 sks lcf blend + 15 sks of tiger bullets mixed into 75 bbls in slug tank = [75X20=1500/50=30sks]).
8/9/2013 08:30	8/9/2013 17:30	9	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate drilling 1,137' @ 126'/hr. 40k wob, 160 spm, 669 gpm, 110 top drive rpm's, 14-16k torque, 114 motor revolutions/min, 224 total bit revolutions/min, 3,000 spp, 550 - 750 diff.
8/9/2013 17:30	8/9/2013 18:30	1	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 50' @ 50'/Hr, 190 spm, 796 gpm, 3,470 spp, 250-350 psi diff, 355 mtf, 128 motor rpm's, 128 total bit rpm's, 30- 35 k wob.
8/9/2013 18:30	8/9/2013 19:00	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 45' @ 90'/hr
8/9/2013 19:00	8/9/2013 20:00	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 40' @ 40'/Hr, 320 mtf
8/9/2013 20:00	8/9/2013 21:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 54' @ 54'/hr
8/9/2013 21:00	8/9/2013 22:00	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 40' @ 40'/Hr, 300 mtf
8/9/2013 22:00	8/9/2013 23:30	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 53' @ 53'/hr
8/9/2013 23:30	8/10/2013 00:30	1	INT-CIRC	CIRCULATE	CIRC	Pump LCM sweep, circulate bottoms up, build and pump slug to TOH due to reduced R.O.P. of 30'/hr.
8/10/2013 00:30	8/10/2013 06:00	5.5	INT-TRIP	TOOH	TRIP	TOH F/ 6,044' - 3,810', hole pulling tight, pulled 40k over, tried to work through tight spot without pumps (unsuccessful), screwed into drill string with top drive and back reamed F/ 3,810' - 3,554', 160 spm, 670 gpm, 2,090 spp, 20 top drive rpm, 5k-10k trq, continued TOH on elevators F/ 3,554' - 2,550', hole taking proper fill



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 7 Daily Operation: 8/10/2013 06:00 - 8/11/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 027547
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
6	7	6,536.5	6,520.9	9.00	PATTERSON - UTI, 225	

### Operations Summary

TOH F/ 2,550' - BHA, Pick up new bit and motor, TIH, Drill Intermediate Section F/ 6,044' - 6,563'

### Remarks

Rig (Patterson 225) & Well Progress: 7.00 days on location, 5.92 days since rig accepted on, 5.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 84%, Curve- 0%, Lateral- 0%

Corrosion ring in string 8/7/13 @ 0600hrs. Hours in string= 96.

PTB= 6,563' md, 14.4° inc, 2.2° azm. 85' Ahead, 12' Right of Plan #6

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/10/2013 06:00	8/10/2013 08:30	2.5	INT-TRIP	TOOH	TRIP	Continue TOH F/2,550' - BHA. Hole taking proper fill.
8/10/2013 08:30	8/10/2013 11:30	3	PLAN	EQUIP	BHA	Change out Motor & Bit. Pick up 7/8 4.0 mud motor set @ 2°. Scribe up to UBHO. Set MWD back in place. Shallow test directional tools (good test). Pick up 12 1/4" Smith MSi616 PDC bit jetted with 6/13's (.77 tfa).
8/10/2013 11:30	8/10/2013 12:30	1	PLAN	EQUIP	RIGSER	Rig service. Grease top drive and blocks.
8/10/2013 12:30	8/10/2013 18:00	5.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH with BHA #4 to 6,044', washed last stand to bottom. Hole displacing properly.
8/10/2013 18:00	8/10/2013 18:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 9', 180 spm, 754 gpm, 3,050 spp, 250-350 diff psi, 50 top drive rpm, 121 motor rpm, 171 total bit rpm, 20k-25k wob, 9.5k ft/lbs trq.  Note: Fan bottom for 10 min. before returning to drilling.
8/10/2013 18:30	8/10/2013 19:30	1	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 23' @ 23'/Hr, 180 spm, 754 gpm, 2,870 spp, 250-350 psi diff, 0 gtf, 121 motor rpm's, 121 total bit rpm's, 20- 25 k wob.
8/10/2013 19:30	8/10/2013 20:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 72' @ 144'/Hr, 180 spm, 754 gpm, 3,335 spp, 450-650 diff psi, 100 top drive rpm, 121 motor rpm, 221 total bit rpm, 25k-30k wob, 16.5k ft/lbs trq.  Note: Fan bottom for 10 min. before returning to drilling.
8/10/2013 20:00	8/10/2013 21:30	1.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 30' @ 20'/Hr, 20R gtf
8/10/2013 21:30	8/10/2013 22:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 65' @ 130'/Hr
8/10/2013 22:00	8/10/2013 23:30	1.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 30' @ 20'/Hr, 20R gtf
8/10/2013 23:30	8/11/2013 00:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 65' @ 130'/Hr
8/11/2013 00:00	8/11/2013 01:30	1.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 37' @ 25'/Hr, 0 gtf
8/11/2013 01:30	8/11/2013 02:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 58' @ 116'/Hr
8/11/2013 02:00	8/11/2013 03:30	1.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 35' @ 23'/Hr, 0 gtf
8/11/2013 03:30	8/11/2013 04:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 60' @ 120'/Hr
8/11/2013 04:00	8/11/2013 06:00	2	INT-DRILL-CURVE	DRILL INT CURVE-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Intermediate Section 35' @ 18'/Hr, 0 gtf

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 8 Daily Operation: 8/11/2013 06:00 - 8/12/2013 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 027547
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
7	8	7,279.5	7,207.8	9.00	PATTERSON - UTI, 225	

### Operations Summary

Drill Intermediate Section F/ 6,563' - 7,306'

### Remarks

Rig (Patterson 225) & Well Progress: 8.00 days on location, 6.92 days since rig accepted on, 6.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 95%, Curve- 0%, Lateral- 0%

Corrosion ring in string 8/7/13 @ 0600hrs. Hours in string= 120.

PTB= 7306' md, 25.2° inc, 357.1° azm. 68' Ahead, 11' Right of Plan #6

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/11/2013 06:00	8/11/2013 06:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 59' @ 118'/hr. 180 spm, 752 gpm, 3,450 spp, 350 - 550 diff psi, 70 top drive rpm, 128 motor rpm, 198 total bit rpm, 20 - 25k wob, 14 - 18k ft/lbs trq.
8/11/2013 06:30	8/11/2013 09:00	2.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide drilling in 12 1/4" Intermediate section 58' @ 23 ft/hr. 25 - 40k wob, 180 spm, 752 gpm, 3,000 spp, 250 - 450 psi diff, HS gtf, 128 motor revolutions/min, 128 total bit revolutions/min.
8/11/2013 09:00	8/11/2013 09:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate in 12-1/4" Intermediate Section 37' @ 74'/hr.
8/11/2013 09:30	8/11/2013 12:00	2.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 60' @ 24'/hr.
8/11/2013 12:00	8/11/2013 12:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate in 12-1/4" Intermediate Section 35' @ 70'/hr.
8/11/2013 12:30	8/11/2013 14:30	2	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 40' @ 20'/hr.
8/11/2013 14:30	8/11/2013 15:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate in 12-1/4" Intermediate Section 45' @ 90'/hr.
8/11/2013 15:00	8/11/2013 16:00	1	PLAN	EQUIP	RIGSER	Daily rig service. Grease top drive & blocks.
8/11/2013 16:00	8/11/2013 18:30	2.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 60' @ 24'/Hr, 0 gtf
8/11/2013 18:30	8/11/2013 19:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate in 12-1/4" Intermediate Section 35' @ 70'/Hr.
8/11/2013 19:00	8/11/2013 21:30	2.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 50' @ 20'/Hr, 0 gtf
8/11/2013 21:30	8/11/2013 22:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate in 12-1/4" Intermediate Section 44' @ 88'/Hr.
8/11/2013 22:00	8/12/2013 00:30	2.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 50' @ 20'/Hr, 0 gtf
8/12/2013 00:30	8/12/2013 01:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate in 12-1/4" Intermediate Section 45' @ 90'/Hr.
8/12/2013 01:00	8/12/2013 04:30	3.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 60' @ 17'/Hr, 0 gtf
8/12/2013 04:30	8/12/2013 05:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate in 12-1/4" Intermediate Section 35' @ 70'/Hr.
8/12/2013 05:00	8/12/2013 06:00	1	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 10' @ 20'/Hr, 0 gtf

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

**Report #: 9 Daily Operation: 8/12/2013 06:00 - 8/13/2013 06:00**

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 027547
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
8	9	7,623.5	7,491.8	8.80	PATTERSON - UTI, 225	

**Operations Summary**

Drill Intermediate Section F/ 7,306' - 7,650' (T.D Intermediate Section), Circulate hole clean, TOH to run 9-5/8" Intermediate Casing F/ 7,650' - 1,022', L/D BHA

**Remarks**

Rig (Patterson 225) & Well Progress: 9.00 days on location, 7.92 days since rig accepted on, 7.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

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

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 7650' md, 37.1° inc, 2.7° azm. 33' Ahead, 7' Right of Plan #6, 12.6°/100' DLN

**Time Log Summary**

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/12/2013 06:00	8/12/2013 15:30	9.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide drilling in 12 1/4" Intermediate section 170' @ 18 ft/hr. 30 - 35k wob,180 spm, 752 gpm, 2,900 spp, 150 - 350 psi diff, HS gtf, 128 motor revolutions/min, 128 total bit revolutions/min.
8/12/2013 15:30	8/12/2013 16:30	1	PLAN	EQUIP	RIGSER	Daily rig service. Motor hand greased blocks and top drive. Checked fluid level on top drive. Floor hands serviced ST-80 and checked handling tools for missing dies and keepers. Tool pusher and PNR representative verified all bolts and cleabaces had the appropriate safety keepers on blocks, top drive, and elevators (OK).
8/12/2013 16:30	8/12/2013 18:00	1.5	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 31' @ 21'/hr. Gtf=HS.
8/12/2013 18:00	8/12/2013 18:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Intermediate Section 63' @ 126'/hr, 180 spm, 754 gpm, 3,325 spp, 450-550 diff psi, 60 top drive rpm, 181 motor rpm, 181 total bit rpm, 25k-30k wob, 16.5k ft/lbs trq.
8/12/2013 18:30	8/12/2013 20:30	2	INT-DRILL-TAN	DRILL INT TANGENT-SLIDE	DRL-SLIDE	Slide in 12-1/4" Intermediate Section 35' @ 18'/Hr, 0 gtf
8/12/2013 20:30	8/12/2013 21:00	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate in 12-1/4" Intermediate Section 45' @ 90'/Hr.  Note: T.D. Intermediate Section @ 7,650' MD, 7,519' TVD, XX DLN
8/12/2013 21:00	8/13/2013 00:00	3	INT-CIRC	CIRCULATE	CIRC	Circulated 2-40 bbl high vis sweeps with 20 lb/bbl LCM 10 min apart. Circulated 2x bottoms up total of 18,500 strokes (1,840 bbls) until shakers were clean.
8/13/2013 00:00	8/13/2013 03:30	3.5	INT-TRIP	TOOH	TRIP	TOH to run 9-5/8" Intermediate Casing F/ 7,650' - 1,022', noproblems encountered hole took proper fill
8/13/2013 03:30	8/13/2013 06:00	2.5	INT-TRIP	TOOH	TRIP	L/D 20 joints of HWDP, Jars, 2 X-O's, 6 joints of 6-1/2" D.C., 3 joints of 8" D.C.

**Report #: 10 Daily Operation: 8/13/2013 06:00 - 8/14/2013 06:00**

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 027547
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
9	10	7,623.5	7,491.8	8.80	PATTERSON - UTI, 225	

**Operations Summary**

Finish laying down BHA #4. Remove wear bushing. Rig service. Run 9 5/8" Intermediate casing F/Surface - 7,611', filling casing and circulating bottoms up @ 2,293', 4,018', and 6,035'. Land casing @ 7,642', circulate, R/D casing crew and rig up cement, cement 9-5/8" casing, lay out landing joint

**Remarks**

Rig (Patterson 225) & Well Progress: 10.00 days on location, 8.92 days since rig accepted on, 8.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

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

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 7650' md, 37.1° inc, 2.7° azm. 33' Ahead, 7' Right of Plan #6, 12.6°/100' DLN

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/13/2013 06:00	8/13/2013 07:30	1.5	PLAN	EQUIP	BHA	Finish laying down stand of 8" DC's. L/D top NMDC. Retrieve MWD. P/U and drain motor. Break bit. L/D mud motor, stabilizer, shock sub, UBHO, and NMDC.
8/13/2013 07:30	8/13/2013 08:00	0.5	PLAN	EQUIP	BHA	REMOVE WEAR BUSHING.
8/13/2013 08:00	8/13/2013 09:00	1	PLAN	EQUIP	RIGSER	Rig service. Grease blocks and top drive. clear floor of trip hazards before running casing.
8/13/2013 09:00	8/13/2013 11:00	2	INT-CASE	RUN INTERMEDIATE CASE	CASE	R/D rig bails and elevators. R/U Express casing crew bails, elevators, and CRT. R/U hydraulic lines and power tongs. Inspect casing running equipment (equipment in good condition).
8/13/2013 11:00	8/13/2013 11:30	0.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	PJSM with Express casing crew, Patterson rig crew, and PNR representative on running casing. Discussed hand placement, pinch points, and maintaining good communication between driller and casing crew operator.
8/13/2013 11:30	8/13/2013 14:00	2.5	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. Fill up and test floats (ok). Run casing F/Surface - 2,293' (36 joints of 43.5 lb/ft torqued to 8,100 ft/lbs and 13 joints of 40 lb/ft torqued to 7,200 ft/lbs). Hole displacing properly and have 32 - 35% flow on each joint ran.  Note: Ran bow spring centralizers on stop rings in the middle of each joint on two joint shoe track. Ran bow spring centralizer 5' above float collar on stop ring. Running bow spring centralizers every third joint until reaching the top of the Ryte Wrap.  Shoe depth: 7,642' md. Float Collar depth: 7,548' md. Shoe track length: 93.68'
8/13/2013 14:00	8/13/2013 14:30	0.5	INT-CIRC	CIRCULATE	CIRC	Fill up casing and circulate bottoms up @ 2,293'. Total strokes pumped= 3,100 @ 100 spm, 228 spp, 28% flow. Full returns to surface.  Note: Changed out elevators for Ryte Wrap friendly elevators.
8/13/2013 14:30	8/13/2013 16:00	1.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run casing F/2,293' - 4,018' (37 joints of 9 5/8" 40 lb/ft L80 LTC Ryte Wrap casing). Average torque @ 7,200 ft/lbs. Hole displacing properly and have 32 - 35% flow on each joint ran.
8/13/2013 16:00	8/13/2013 16:30	0.5	INT-CIRC	CIRCULATE	CIRC	Fill up casing and circulate bottoms up @ 4,018'. Total strokes pumped= 3,600 @ 100 spm, 290 spp, 27% flow. Full returns to surface.
8/13/2013 16:30	8/13/2013 19:00	2.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run casing F/4,018' - 6,035' (43 joints of 9 5/8" 40 lb/ft L80 LTC Ryte Wrap casing). Average torque @ 7,200 ft/lbs. Hole displacing properly and have 32 - 35% flow on each joint ran.
8/13/2013 19:00	8/13/2013 19:30	0.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Fill up casing and circulate bottoms up @ 6,035'. Total strokes pumped= 5,500 @ 100 spm, 260 spp, 27% flow. Full returns to surface.
8/13/2013 19:30	8/13/2013 21:00	1.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run casing F/6,035' - 7,611' (34 joints of 9 5/8" 40 lb/ft L80 LTC Ryte Wrap casing). Average torque @ 7,200 ft/lbs. Hole displacing properly and have 32 - 35% flow on each joint ran.
8/13/2013 21:00	8/13/2013 23:00	2	INT-CASE	RUN INTERMEDIATE CASE	CASE	M/U landing joint and hanger, and wash to bottom F/7,611' - 7,642'. Circulate 1-1/2 casing capacity, full returns.
8/13/2013 23:00	8/14/2013 00:00	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	R/D casing crew & CRT
8/14/2013 00:00	8/14/2013 00:30	0.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	R/U Schlumberger Cement, hold safety meeting with rig crew, cementers, and PNR representatives.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/14/2013 00:30	8/14/2013 04:30	4	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	<p>Schlumberger cement 9 5/8" Intermediate casing as follows:</p> <p>40 bbls 8.33 lb/gal viscosified water. Mixed with 1.00 lb/bbl of viscosifier D208.</p> <p>1,593 sk 459.6 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>185 sk 35 bbl, 16.4 lb/gal Tail tack, 1.07 yield. Mixed with 4.359 gal/sk H2O, 94 lb/sk Cement (H), 0.2% Anti foam D046, 0.2% Retarder D013, 0.2% Dispersant D065.</p> <p>Displaced cement with 570 bbls of 9.6 ppg OBM. Displaced final 20 bbls at 2.5 bpm. Bump plug with 1,185 psi 500 psi over final lift pressure of 685 psi. Floats held, bled back 2.5 bbls.</p> <p>Returned cement to surface 400 bbls into displacement. Lost full returns 425 bbls into displacement. Did not regain returns through remainder of cement job.</p> <p>Lift pressures: 50 bbl-6.5 bpm 400 psi, 100 bbl-6.5 bpm 405 psi, 200 bbl-6.5 bpm 375 psi, 300 bbl-6.5 bpm 680 psi, 400 bbl-6.5 bpm 1,005 psi, 410 bbl-6.5 bpm 1,030 psi, 420 bbl-6.5 bpm 1,055 psi, 430 bbl (lost returns)-5.2 bpm 635 psi, 440 bbl-4.5 bpm 525 psi, 450 bbl-4.5 bpm 540 psi, 460 bbl-4.5 bpm 585 psi, 470 bbl-3.3 bpm 485 psi, 480 bbl-3.3 bpm 505 psi 490 bbl-3.3 bpm 560 psi, 500 bbl-3.3 bpm 600 psi, 550 bbl-3.3 bpm 755 psi, 560 bbl-2.3 bpm 665 psi, 570 bbl-2.3 bpm 685 psi</p>
8/14/2013 04:30	8/14/2013 06:00	1.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Cementers flush and clean lines, R/D cementers, backout landing joint and lay down

Report #: 11 Daily Operation: 8/14/2013 06:00 - 8/15/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 027547
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig PATTERSON - UTI, 225	
10	11	7,935.5	7,666.3	9.60		

Operations Summary  
Pack-off 9-5/8" Intermediate Casing, Test to 5,000 psi, Remove casing bails & elevators, Install rig bails & elevators, P/U curve/lateral BHA, Slip & Cut 160' of drlg. line, TIH, P/U 5" D.P., Test casing to 5,000 psi, Drill cement shoe track, Perform F.I.T., Drill curve F/ 7,650' - 7,962'

Remarks  
Rig (Patterson 225) & Well Progress: 11.00 days on location, 9.92 days since rig accepted on, 9.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 86%, Lateral- 0%

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 7,962' md, 74° inc, 2.0° azm. 6' Above, 15' Right of Plan #6, 9°/100' DLN to land 15' low

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/14/2013 06:00	8/14/2013 08:30	2.5	PLAN	EQUIP	WLHEAD	<p>Back off landing joint, pull out and install running tool and pack off. Run in with pack off and verify good seat (ok). Secure pack off and pack off to 5,000 psi, held pressure for 5 min (ok). 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.</p>
8/14/2013 08:30	8/14/2013 10:00	1.5	PLAN	EQUIP	RURDRT	<p>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.</p>

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/14/2013 10:00	8/14/2013 12:00	2	PLAN	EQUIP	BHA	Pick up directional tools. Pick up mud motor 4/5L 7.0S set @ 2° (.50 rev/gal). Make up UBHO to top of motor. Scribe bend up to UBHO. Make up bottom NMDC. Install MWD and confirm good seat. Pick up top flex monel and XO sub to go from XH to IF. Shallow test directional tools (good test). Make up 8 1/2" Security MMD55 PDC jetted with 5/22's jets and 2/22's ports (2.597 tfa).
8/14/2013 12:00	8/14/2013 14:00	2	PLAN	DRLG	CUTDL	Slip & Cut 160' of drilling line. Noe Gonzales, Patterson HSE advisor and tool pusher supervising operation.  Note: Finished pit cleaning @ 0800hrs. PNR representative and derrick man performed walk around pits to confirm bull plugs were installed to avoid spills. Transferred 380 bbls of 9.6 lb/bbl OBM to active system through gun line and over the shakers.
8/14/2013 14:00	8/14/2013 15:00	1	PLAN	EQUIP	RIGSER	Daily rig service. Clear floor of trip hazards prior to TIH.
8/14/2013 15:00	8/14/2013 19:00	4	PROD-TRIP	TRIP	TRIP	TIH w/ cuve and lateral assembly F/ BHA - 6,730'
8/14/2013 19:00	8/14/2013 19:30	0.5	PROD-CIRC	CIRCULATE	CIRC	Fill drill pipe & brak circulation
8/14/2013 19:30	8/14/2013 22:30	3	PROD-TRIP	TRIP	TRIP	P/U 27 joints of 5" D.P. to replace BHA L/D after Intermediate Section F/ 6,730' - 7,539'  Tagged cement on top of plug @ 7,539'
8/14/2013 22:30	8/14/2013 23:00	0.5	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Test 9-5/8" Intermediate Casing to 2,500 psi, pressure stabilized @ 2,458 psi (test good).
8/14/2013 23:00	8/15/2013 00:00	1	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Drill plug and cement shoe track F/ 7,548' - 7,642'  Tagged Shoe @ 7,642'
8/15/2013 00:00	8/15/2013 00:30	0.5	PROD-DRILL TANGENT	DRILL PROD TANGENT-ROTATE	DRL-ROT	Rotate Drill Production Section 5' of new formation 85 spm, 356 gpm, 1,460 spp, 300 psi diff, 30 top drive rpm, 178 motor rpm, 208 total bit rpm, 10k wob, 5k ft/lbs trq.
8/15/2013 00:30	8/15/2013 01:00	0.5	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 @ 1,369 psi with 9.5 MW in hole @ 7,523' TVD. Test leaked off to 1,350 psi, giving 12.95 ppg EMW
8/15/2013 01:00	8/15/2013 06:00	5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide Drill 12-1/4" Intermediate Section 307' @ 61'/Hr, 140 spm, 587 gpm, 3,110 spp, 500-650 psi diff, 10L gtf, 294 motor rpm's, 294 total bit rpm's, 20- 25 k wob.

Report #: 12 Daily Operation: 8/15/2013 06:00 - 8/16/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 027547
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Days From Spud (days) 11	Days on Location (days) 12	End Depth (ftGRD) 10,872.5	End Depth (TVD) (ftGRD) 7,663.8	Dens Last Mud (lb/gal) 9.80	Rig PATTERSON - UTI, 225
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#### Operations Summary

Drill Curve F/ 7,962' - 8,103', Drill Lateral F/ 8,103' - 10,899'

#### Remarks

Rig (Patterson 225) & Well Progress: 12.00 days on location, 10.92 days since rig accepted on, 10.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 37%

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 10,899' md, 89.6° inc, 2.0° azm. 12' Above, 8' Left of new target line 7,708' TVD @ 0' V.S. w/ 90.027° Inc.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/15/2013 06:00	8/15/2013 07:30	1.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide drilling in 8 1/2" Production section 125' @ 83 ft/hr. 30 - 35k wob, 140 spm, 585 gpm, 3,000 spp, 350 - 550 psi diff, 30 L, 293 motor revolutions/min, 393 total bit revolutions/min.
8/15/2013 07:30	8/15/2013 08:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 64' @ 128'/hr. 140 spm, 585 gpm, 3,050 spp, 550 - 750 diff psi, 100 top drive rpm, 293 motor rpm, 493 total bit rpm, 20 - 25k wob, 10 - 12k ft/lbs trq.  Note: TD 8 1/2" Curve Section @ 8,103' md 7,712' tvd @ 0730hrs (6.5 drilling hours).
8/15/2013 08:00	8/15/2013 08:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 20' @ 83 ft/hr @ 20L.
8/15/2013 08:30	8/15/2013 09:30	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 170' @ 170'/hr. 140 spm, 585 gpm, 3,100 spp, 550 - 750 diff psi, 120 top drive rpm, 313 motor rpm, 513 total bit rpm, 25 - 30k wob, 10 - 12k ft/lbs trq.
8/15/2013 09:30	8/15/2013 10:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 10' @ 20 ft/hr (GTF=120R).
8/15/2013 10:00	8/15/2013 11:00	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 85' @ 85'/hr.
8/15/2013 11:00	8/15/2013 11:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr (GTF=120R).
8/15/2013 11:30	8/15/2013 12:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 80' @ 160'/hr.
8/15/2013 12:00	8/15/2013 12:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr (GTF=130R).
8/15/2013 12:30	8/15/2013 13:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 80' @ 160'/hr.
8/15/2013 13:00	8/15/2013 13:30	0.5	PLAN	EQUIP	RIGSER	Daily rig service. Grease blocks & top drive. Checked hydraulic fluid level on top drive (ok).
8/15/2013 13:30	8/15/2013 14:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr (GTF=180R).
8/15/2013 14:00	8/15/2013 14:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 79' @ 158'/hr.
8/15/2013 14:30	8/15/2013 15:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr (GTF=180).
8/15/2013 15:00	8/15/2013 16:00	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 175' @ 175'/hr.
8/15/2013 16:00	8/15/2013 16:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr (GTF=180).
8/15/2013 16:30	8/15/2013 17:30	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 175' @ 175'/hr.
8/15/2013 17:30	8/15/2013 18:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr (GTF=150R).
8/15/2013 18:00	8/15/2013 19:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 170' @ 113'/Hr.
8/15/2013 19:30	8/15/2013 20:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 15' @ 30'/Hr. (GTF=150R)
8/15/2013 20:00	8/15/2013 21:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Rotate Drill 8-1/2" Production Section 269' @ 179'/Hr.
8/15/2013 21:30	8/15/2013 22:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr. (GTF=160L)
8/15/2013 22:00	8/16/2013 00:00	2	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 358' @ 179'/Hr.
8/16/2013 00:00	8/16/2013 00:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 18' @ 36'/Hr. (GTF=160L)
8/16/2013 00:30	8/16/2013 02:30	2	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 361' @ 181'/Hr.
8/16/2013 02:30	8/16/2013 03:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 16' @ 32'/Hr. (GTF=160L)

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/16/2013 03:00	8/16/2013 04:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 268' @ 179'/Hr.
8/16/2013 04:30	8/16/2013 05:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 12' @ 24'/Hr. (GTF=180)
8/16/2013 05:00	8/16/2013 06:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 272' @ 272'/Hr.

Report #: 13 Daily Operation: 8/16/2013 06:00 - 8/17/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 027547
Days From Spud (days) 12	Days on Location (days) 13	End Depth (ftGRD) 12,783.5
	End Depth (TVD) (ftGRD) 7,670.0	Dens Last Mud (lb/gal) 9.80
		Rig PATTERSON - UTI, 225

### Operations Summary

Drill Lateral F/ 10,899' - 12,810, Troubleshoot MWD, TOH to C/O MWD Tool, F/ 12,810' - 9,670'

Remarks  
Rig (Patterson 225) & Well Progress: 13.00 days on location, 11.92 days since rig accepted on, 11.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

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

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 12,810' md, 90.4° inc, 356.6° azm. 9' Above, 5' Left of Plan #7

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/16/2013 06:00	8/16/2013 06:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 40 ft/hr. 35 - 40k wob, 140 spm, 585 gpm, 3,000 spp, 150 - 350 psi diff, 140 L gtf, 293 motor revolutions/min, 293 total bit revolutions/min.
8/16/2013 06:30	8/16/2013 07:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 169' @ 169'/hr. 140 spm, 585 gpm, 3,800 spp, 650 - 850 diff psi, 120 top drive rpm, 293 motor rpm, 413 total bit rpm, 25 - 30k wob, 10 - 12k ft/lbs trq.
8/16/2013 07:30	8/16/2013 08:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr @ 170L gtf.
8/16/2013 08:00	8/16/2013 10:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 269' @ 135'/hr.
8/16/2013 10:00	8/16/2013 10:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 15' @ 30 ft/hr @ 180 gtf.
8/16/2013 10:30	8/16/2013 11:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 175' @ 175'/hr.
8/16/2013 11:30	8/16/2013 12:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 20 ft/hr @ 180 gtf.
8/16/2013 12:30	8/16/2013 15:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 359' @ 144'/hr.  Note: PNR representative discussed Rig Inspection & Drops Survey that was performed by Cenergy, with both rig managers and Noe Gonzales (Patterson HSE advisor). Third party equipment company's (KSW, NAC, Horizon, and Monster Pit) have been notified of requirements and will be coming out to make corrections asap. Patterson rig manager Jesse Caldera & Bernard Weatherall were handed a print out of the rig inspection by PNR representative on our meeting, and will be checking off items that have been completed.
8/16/2013 15:00	8/16/2013 15:30	0.5	PLAN	EQUIP	RIGSER	Daily rig service.
8/16/2013 15:30	8/16/2013 16:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 20 ft/hr @ 150L gtf.
8/16/2013 16:30	8/16/2013 19:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 359' @ 144'/Hr.
8/16/2013 19:00	8/16/2013 19:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 15' @ 30'/Hr. (GTF=150L)

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/16/2013 19:30	8/16/2013 21:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 269' @ 179'/Hr.
8/16/2013 21:00	8/16/2013 21:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 18' @ 36'/Hr. (GTF=180)
8/16/2013 21:30	8/16/2013 22:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Production Section 77' @ 77'/Hr.
8/16/2013 22:30	8/16/2013 23:30	1	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Troubleshoot MWD. Pulses became too small to de-code while drilling causing tool to loose sync, tested drilling at reduced rates of 503 gpm, 461 gpm, and 419 gpm. While drilling at 419 gpm tool would give big clean pulses and would get worse as gpm's were increased. Determined pulse was weak and could not over come the increased pressure at higher gpm causing the tool to short pulse and show smaller pulses. Decision made to keep drilling at reduced rate of 419 gpm after discussing with Superintendent Jess Arnold and Engineer Ian Birbeck
8/16/2013 23:30	8/17/2013 00:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Intermediate Section 77' @ 77'/Hr, 100 spm, 419 gpm, 2,490 spp, 450-650 diff psi, 120 top drive rpm, 210 motor rpm, 330 total bit rpm, 20k-25k wob, 11k ft/lbs trq.
8/17/2013 00:00	8/17/2013 00:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide Drill 8-1/2" Production Section 18' @ 36'/Hr. (GTF=180)
8/17/2013 00:30	8/17/2013 01:30	1	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Troubleshoot MWD. Pulses continue getting smaller while drilling at reduced gpm, Pulses became too small while drilling to decode desicion made to TOH to C/O MWD tool
8/17/2013 01:30	8/17/2013 03:00	1.5	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Circulate hole clean, 140 spm, 587 gpm, 3,050 spp, 120 top drive rpm, 294 motor rpm, 414 total bit rpm, 5k ft/lbs trq.
8/17/2013 03:00	8/17/2013 06:00	3	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	TOH to C/O MWD, F/ 12,810' - 9,670', no problems encountered, hole taking proper fill.  Note: TOH with 5 stands, filled hole, hole took proper displacement. Checked for flow, no flow, well was static.

### Report #: 14 Daily Operation: 8/17/2013 06:00 - 8/18/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 027547	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
13	14	13,113.5	7,674.4	9.70	PATTERSON - UTI, 225		

#### Operations Summary

Continue TOH to C/O MWD Tool F/ 9,670' - BHA, C/O bit, motor, and MWD Tool, TIH F/ BHA - 7,805', Wash through tight spot F/ 7,805' - 8,625', Finish TIH on elevators, Drill Lateral F/ 12,810' - 13,140'

#### Remarks

Rig (Patterson 225) & Well Progress: 14.00 days on location, 12.92 days since rig accepted on, 12.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours.2.50 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 67%

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 13,140' md, 89.2° inc, 1.7° azm. 5' Above, 6' Left of Plan #7

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/17/2013 06:00	8/17/2013 11:30	5.5	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Continue TOH F/9,670' - BHA. Hole taking proper displacement.  Note: Checked for flow @ shoe. No flow seen, well was static.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/17/2013 11:30	8/17/2013 14:00	2.5	PLAN	EQUIP	BHA	Lay down MWD tool. Break bit and change out motor. Pick up 4/5_7.0 mud motor set @ 2° (fixed housing). Scribe up to UBHO. Set MWD back in place. Shallow test directional tools (good test). Pick up 8 1/2" Security MMD55DM PDC bit jetted with 5/22's (1.856 tfa).  Note: Removed screen from pulser to check for debree (clear). Also checked UBHO sleeve for debree (clear).
8/17/2013 14:00	8/17/2013 15:00	1	PLAN	EQUIP	RIGSER	Daily rig service. Greased blocks & top drive. Checked fluid level on top drive (good). Cleared floor of OBM and checked handling tools prior to TIH with BHA #6.
8/17/2013 15:00	8/17/2013 19:30	4.5	PROD-TRIP	TRIP	TRIP	TIH F/ BHA - 7,772', hole displacing properly.
8/17/2013 19:30	8/17/2013 20:00	0.5	PROD-CIRC	CIRCULATE	CIRC	Fill pipe, test MWD Tool (test good)
8/17/2013 20:00	8/17/2013 22:30	2.5	PROD-TRIP	TRIP	TRIP	Resume TIH hit tight spot @ 7,805', dragging 40k over, screwed into drill string with top drive and washed F/ 7,805' - 8,625'
8/17/2013 22:30	8/18/2013 00:30	2	PROD-TRIP	TRIP	TRIP	TIH on elevators F/ 8,625' - 10,805', hole displacing properly.
8/18/2013 00:30	8/18/2013 01:00	0.5	PROD-CIRC	CIRCULATE	CIRC	Fill pipe, test MWD Tool (test good).
8/18/2013 01:00	8/18/2013 03:00	2	PROD-TRIP	TRIP	TRIP	TIH on elevators F/ 10,805' - 12,699', washed last stand to bottom to 12,810', hole displaced properly.
8/18/2013 03:00	8/18/2013 06:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Intermediate Section 330' @ 110'/Hr, 130 spm, 545 gpm, 3,750 spp, 450-650 diff psi, 120 top drive rpm, 273 motor rpm, 393 total bit rpm, 20k-25k wob, 13k ft/lbs trq.

Report #: 15 Daily Operation: 8/18/2013 06:00 - 8/19/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 027547	
Days From Spud (days) 14	Days on Location (days) 15	End Depth (ftGRD) 15,230.5	End Depth (TVD) (ftGRD) 7,670.6	Dens Last Mud (lb/gal) 9.80	Rig PATTERSON - UTI, 225		

### Operations Summary

Drill Lateral F/ 13,140' - 15,257'

### Remarks

Rig (Patterson 225) & Well Progress: 15.00 days on location, 13.92 days since rig accepted on, 13.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours. 2.50 NPT hours for August.

Completion percentage: Surface- 100%, Intermediate- 100%, Curve- 100%, Lateral- 98%

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 15,257' md, 87.8° inc, 2.5° azm. 10' Above, 15' Right of Plan #7

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/18/2013 06:00	8/18/2013 11:30	5.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 885' @ 161'/hr. 130 spm, 543 gpm, 3,800 spp, 550 - 750 diff psi, 120 top drive rpm, 272 motor rpm, 392 total bit rpm, 25 - 30k wob, 11 - 13k ft/lbs trq.
8/18/2013 11:30	8/18/2013 13:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 20' @ 13 ft/hr. 40 - 50k wob, 130 spm, 543 gpm, 3,200 spp, 150 - 250 psi diff, 90 L gtf, 272 motor revolutions/min, 272 total bit revolutions/min.
8/18/2013 13:00	8/18/2013 13:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8 1/2" Production Section 75' @ 150'/hr. 130 spm, 543 gpm, 3,800 spp, 550 - 750 diff psi, 100 top drive rpm, 272 motor rpm, 372 total bit rpm, 25 - 30k wob, 11 - 13k ft/lbs trq.
8/18/2013 13:30	8/18/2013 14:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide drilling in 8 1/2" Production section 30' @ 30 ft/hr. 40 - 50k wob, 130 spm, 543 gpm, 3,200 spp, 150 - 250 psi diff, 90 L gtf, 272 motor revolutions/min, 272 total bit revolutions/min.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/18/2013 14:30	8/18/2013 15:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 65' @ 130'/hr. 130 spm, 543 gpm, 3,800 spp, 550 - 750 diff psi, 120 top drive rpm, 272 motor rpm, 392 total bit rpm, 25 - 30k wob, 11 - 13k ft/lbs trq.
8/18/2013 15:00	8/18/2013 16:00	1	PLAN	EQUIP	RIGSER	Daily rig service. Grease Crown, Blocks, and Top Drive.
8/18/2013 16:00	8/18/2013 17:00	1	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide drilling in 8 1/2" Production section 15' @ 15 ft/hr @ 180 gtf.
8/18/2013 17:00	8/18/2013 17:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 80' @ 160'/hr.
8/18/2013 17:30	8/18/2013 18:30	1	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 20' @ 40'/Hr @ 135L gtf
8/18/2013 18:30	8/18/2013 19:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 74' @ 148'/Hr.
8/18/2013 19:00	8/18/2013 20:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 22' @ 15'/Hr @ 180 gtf
8/18/2013 20:30	8/18/2013 22:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 168' @ 112'/Hr.
8/18/2013 22:00	8/18/2013 22:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 18' @ 36'/Hr @ 180 gtf
8/18/2013 22:30	8/19/2013 00:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 171' @ 114'/Hr.
8/19/2013 00:00	8/19/2013 01:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 20' @ 13'/Hr @ 180 gtf
8/19/2013 01:30	8/19/2013 03:30	2	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 264' @ 132'/Hr.
8/19/2013 03:30	8/19/2013 05:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide Drill 8-1/2" Production Section 23' @ 15'/Hr @ 180 gtf
8/19/2013 05:00	8/19/2013 06:00	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Production Section 167' @ 167'/Hr.

Report #: 16 Daily Operation: 8/19/2013 06:00 - 8/20/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 027547
Days From Spud (days) 15	Days on Location (days) 16	End Depth (ftGRD) 15,556.5
End Depth (TVD) (ftGRD) 7,658.1	Dens Last Mud (lb/gal) 9.70	Rig PATTERSON - UTI, 225

#### Operations Summary

Drill Lateral F/ 15,257' - 15,583' (T.D.), Circulate hole clean, TOH on elevators F/ 15,583' - 14,594', L/D 5" D.P. F/ 14,594' - 925', Replace broken hydraulic hose on catwalk

#### Remarks

Rig (Patterson 225) & Well Progress: 16.00 days on location, 14.92 days since rig accepted on, 14.71 days since spud. Rig move day's 1.00

Rig NPT: 1.5 hours for previous 24 hours. 4.0 NPT hours for August.

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

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 15,583' md, 93.3° inc, 4.1° azm. 19' Above, 28' Right of Plan #7

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/19/2013 06:00	8/19/2013 09:30	3.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8 1/2" Production Section 326' @ 93'/hr. 124 spm, 518 gpm, 3,700 spp, 550 - 750 diff psi, 120 top drive rpm, 259 motor rpm, 379 total bit rpm, 25 - 30k wob, 12 - 15k ft/lbs trq.
8/19/2013 09:30	8/19/2013 13:30	4	PROD-CIRC	CIRCULATE	CIRC	Circulate @ 15,583' (TD). Pump 2 weighted sweeps and circulated 3 bottoms up following the sweeps. First sweep brought back small cuttings up to 1/4" and covered top three screens. Second sweep brought back mostly fine/silty cuttings. After circulation was complete shaker screens were clear of cuttings. Torque decreased from 9,500 ft/lbs - 7,500 ft/lbs throughout circulation. Circulate @ 140 spm, 585 gpm, 3,650 spp, 120 rpm, 7,500 trq. Reciprocating a full stand @ 2,000 ft/hr throughout circulation.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/19/2013 13:30	8/19/2013 14:00	0.5	PLAN	EQUIP	RIGSER	Daily rig service. Inspected blocks, top drive, bails, and elevators for missing safety keepers and pins (ok). Checked oil on top drive (good).
8/19/2013 14:00	8/19/2013 15:30	1.5	PROD-TRIP	TRIP	TRIP	TOH 10 stands on elevators F/ 15,583' - 14594'. Max pull @ 10k.  Note: TOH with five stands and filled backside, hole took proper displacement. Checked for flow into trip tank at 5 stands, no flow seen, well was static.
8/19/2013 15:30	8/20/2013 04:30	13	PROD-TRIP	TRIP	TRIP	Pump slug and lay down 5" drill pipe F/ 14,594 - 925', no hole problems encountered, hole taking proper fill.
8/20/2013 04:30	8/20/2013 06:00	1.5	UNPLANNED	Rig Repair (NON-CODE 8, Replacing Pump Expendables)	U_RIG_OTR	Replace broken hydraulic hose on catwalk

Report #: 17 Daily Operation: 8/20/2013 06:00 - 8/21/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 027547
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Days From Spud (days) 16	Days on Location (days) 17	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) 7,658.1	Dens Last Mud (lb/gal) 9.70	Rig PATTERSON - UTI, 225
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#### Operations Summary

Finish L/D 5" D.P. F/ 926' - BHA, L/D directional tools, TIH & L/D 10 stands from derrick, Pull wear bushing, R/U casing crew, Run 5-1/2" Production Casing F/ surface - 11,077', Work on hydraulic leak on catwalk.

#### Remarks

Rig (Patterson 225) & Well Progress: 17.00 days on location, 15.92 days since rig accepted on, 15.71 days since spud. Rig move day's 1.00

Rig NPT: 0 hours for previous 24 hours. 2.50 NPT hours for August.

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

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 15,583' md, 93.3° inc, 4.1° azm. 19' Above, 28' Right of Plan #7

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/20/2013 06:00	8/20/2013 07:00	1	PLAN	EQUIP	DPIPE	Finish layind down 5" drill pipe f/925' - BHA. Hole taking proper displacement.
8/20/2013 07:00	8/20/2013 09:00	2	PLAN	EQUIP	BHA	Lay down directional tools. Drain motor & break bit off (Motor drained strong and no damage was seen when visually inspected). 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.
8/20/2013 09:00	8/20/2013 10:30	1.5	PLAN	EQUIP	DPIPE	TIH with 10 stands of 5" drill pipe. Lay down 30 joints 5" drill pipe. Hole took proper fill when laying down pipe.
8/20/2013 10:30	8/20/2013 11:00	0.5	PLAN	EQUIP	WLHEAD	"RETRIEVE WEAR BUSHING". PNR representative supervising operation.
8/20/2013 11:00	8/20/2013 13:00	2	PROD-CASE	RUN PRODUCTION CASTING	CASE	R/D rig bails and elevators. Wash off OBM on rig floor and remove all trip hazards prior to running 5 1/2" Casing. Rig up Tesco CDS tool & equipment.
8/20/2013 13:00	8/20/2013 13:30	0.5	PLAN	EQUIP	RIGSER	Daily rig service. Grease blocks & top drive. Inspect blocks, top drive, bails, and tesco CDS tool for missing safety keepers (all good).
8/20/2013 13:30	8/20/2013 14:00	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	PJSM with Tesco, Patterson, and PNR representative on location. Discussed casing running procedure, keeping good communication, looking out for each other.
8/20/2013 14:00	8/20/2013 14:30	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	M/U 5 1/2" Float Shoe + 2 joints of 5-1/2" 17 ppf P-110 BTC + Float Collar. Used thread lock on float shoe, 2 joint shoe track, float collar, and 1 joint above float collar. Test Floats (test good). Shoe Track = 76.23'.
8/20/2013 14:30	8/20/2013 17:00	2.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/ 76' - 2,503'. Avg torque @ 6,500 ft/lbs, casing making up to the base of the triangle. Hole displacing properly, and have 20 - 22% flow on each joint ran.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/20/2013 17:00	8/20/2013 17:30	0.5	PROD-CIRC	CIRCULATE	CIRC	Fill 5 1/2" Production Csg with 563 stks @ 100 spm, 450 spp, 30% flow. Full returns to surface during circulation.
8/20/2013 17:30	8/20/2013 20:30	3	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/ 2,503' - 4,996'. Avg torque @ 6,500 ft/lbs, casing making up to the base of the triangle. Hole displacing properly, and have 20 - 22% flow on each joint ran.
8/20/2013 20:30	8/20/2013 21:00	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill 5 1/2" Production Csg with 579 stks @ 100 spm, 510 spp, 30% flow. Full returns to surface during circulation.
8/20/2013 21:00	8/21/2013 00:00	3	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/ 4,996' - 7,509'. Avg torque @ 6,500 ft/lbs, casing making up to the base of the triangle. Hole displacing properly, and have 20 - 22% flow on each joint ran.
8/21/2013 00:00	8/21/2013 00:30	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill 5 1/2" Production Csg with 584 stks @ 100 spm, 590 spp, 30% flow. Full returns to surface during circulation.
8/21/2013 00:30	8/21/2013 03:00	2.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/ 4,996' - 10,032'. Avg torque @ 6,500 ft/lbs, casing making up to the base of the triangle. Hole displacing properly, and have 20 - 22% flow on each joint ran.
8/21/2013 03:00	8/21/2013 03:30	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill 5 1/2" Production Csg with 586 stks @ 100 spm, 790 spp, 30% flow. Full returns to surface during circulation.
8/21/2013 03:30	8/21/2013 04:30	1	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/ 10,032' - 11,077'. Avg torque @ 6,500 ft/lbs, casing making up to the base of the triangle. Hole displacing properly, and have 20 - 22% flow on each joint ran.
8/21/2013 04:30	8/21/2013 06:00	1.5	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Troubleshoot hydraulic leak on catwalk. Found hydraulic oil leaking from the hydraulic oil cooling radiator. Circulate @ 100 spm, 419 gpm, 840 spp.

Report #: 18 Daily Operation: 8/21/2013 06:00 - 8/22/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 027547	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
17	18	15,556.5	7,658.1	9.70	PATTERSON - UTI, 225		

#### Operations Summary

Fix hydraulic leak, Run 5-12" Production Casing F/ 11,077 - 15,581', R/D Tesco CDS, Circulate casing, Cement 5-1/2" casing, N/D B.O.P., Cut casing and install cap, Prepare rig to skid. Rig released @ 06:00 hrs on 8/22/2013

#### Remarks

Rig (Patterson 225) & Well Progress: 18.00 days on location, 16.92 days since rig accepted on, 16.71 days since spud. Rig move day's 1.00

Rig NPT: 2 hours for previous 24 hours. 4.50 NPT hours for August.

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

Corrosion Ring In 8/7/13 @ 06:00hrs, Out 8/13/13 @ 04:00 hrs. Hours in string= 140.

PTB= 15,583' md, 93.3° inc, 4.1° azm. 19' Above, 28' Right of Plan #7

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/21/2013 06:00	8/21/2013 08:00	2	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Continue to work on hydraulic leak. Removed panel in front of hydraulic cooling unit to identify where leak was coming from. Leak found to be on cracked weld on bottom of hydraulic oil cooling unit. Received ok from mechanic's and Patterson Superintendent to bypass unit and continue running 5 1/2" production casing.
8/21/2013 08:00	8/21/2013 10:00	2	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/ 11,069' - 13,015'. Avg torque @ 6,500 ft/lbs, casing making up to the base of the triangle. Hole displacing properly, and have 20 - 23% flow on each joint ran.
8/21/2013 10:00	8/21/2013 10:30	0.5	PROD-CIRC	CIRCULATE	CIRC	Fill 5 1/2" Production Csg with 693 stks @ 100 spm, 1000 spp, 29% flow. Full returns to surface during circulation.  Note: Mechanic's arrived to install new cooling unit @ 0900hrs. Replaced cooling unit during fill up @ 1000hrs. Pipe wrangler working properly.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/21/2013 10:30	8/21/2013 13:00	2.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2" 17# P110 BTC production casing F/ 13,015' - 15,581'. Wash down last two joints to bottom for safety. No problems encountered while washing down. Avg torque @ 6,500 ft/lbs, casing making up to the base of the triangle. Hole displacing properly, and have 20 - 23% flow on each joint ran.  Ran total of 15 spiral glider centralizers. Ran 1 every joint f/8,100' - 7,800'. Ran 1 every other joint f/7,800' - 7,350'.  Shoe @ 15,581' Float @ 15,504' Shoe Track=76.23'
8/21/2013 13:00	8/21/2013 14:00	1	PROD-CIRC	CIRCULATE	CIRC	Rigging down Tesco CDS tool and equipment.
8/21/2013 14:00	8/21/2013 15:30	1.5	PROD-CIRC	CIRCULATE	CIRC	Circulate 5 1/2" Production Casing on bottom 1.5x casing volume (5,430 stks). Rig up long bails and elevators. Load up cement head and chickens to rig floor.
8/21/2013 15:30	8/21/2013 16:30	1	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Rig up Schlumberger cementing equipment. Install bottom and top plugs on cement head with PNR representative present. Installed tattle-tail on top plug.
8/21/2013 16:30	8/21/2013 20:30	4	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	PJSM with Schlumberger, Patterson personel, and PNR representative. Test cement lines at 4,000 psi (Good test). Mix & pump cement as follows:  Mudpush Express - 40 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, 119.0 lb/bbl of weighing agent D031.  Scavenger Slurry - 195 bbls @ 11 lb/gal, 2.79 yield, 16.986 gal/sk h20. Mixed with 75 lb/sk cement D049, 0.2% fluid loss D207, 10.0% extender D020, 6.0% extender D154, 0.2% anti foam D046, 0.9% retarder D013, and 0.2% viscosifier D208.  Tail Slurry - 450 bbls @ 12.5 bl/gal, 1.59 yield, 8.580 gal/sk h20. Mixed with 75 lb/sk cement D049, 1.5% expanding agent D174, 0.7% fluid loss D112, 0.2% anti foam D046, and 0.5% retarder D201.  PNR representative observed tattle tail leave cement head when pumping down top plug. Displaced with 360 bbls @ 8.32 lb/gal mixed with 0.084 gal/bbl green-cide 25G B244. Bump plug @ 20:15 hrs 8/21/13 with 500 psi over final lift pressure of 1,975 psi (2,475 psi). Held pressure for 5 min, floats held. Released pressure & bled back 3 bbls.  Circulated out 40 bbls Mudpush Express, and 40 bbls of Scavenger slurry (81 sk's).  Note: After bumping top plug monitored well for flow on flow line for 10 min, well was static.  *Held full returns to surface throughout cement job.
8/21/2013 20:30	8/21/2013 21:30	1	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Rig down cementers and wash through B.O.P., flowline, and all surface equipment.
8/21/2013 21:30	8/22/2013 00:30	3	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, and kill line. Secure BOP with handler, and ND BOP on top of B section. Lift BOP stack with handler. Set casing slips with 140K with PNR representative, Seaboard representative, and tool pusher supervising operation. Perform rough cut on 5 1/2" production casing and lay out on catwalk.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/22/2013 00:30	8/22/2013 03:00	2.5	PROD-NU/TEST	NIPPLE UP/TEST	NU/TEST	Finish NB BOP, make final cut & install 5-1/2" Casing packoff. Install 13-5/8" 5MSP x 17-1/16" 10 MSP tubing head, test pack off seals & void 5000 psi
8/22/2013 03:00	8/22/2013 06:00	3	MOBILIZATION	RDMO	RDMO	Clean OBM from mud pits. Continue with final 3 hrs of OBM rig cleaning as per Patterson contract. Rig cleaning inspected by rig manager and rig released @ 06:00 hrs. on 8/22/2013. Night crew worked throughout night to prepare rig to skid to University 10-1 6H. Pinned top drive, rigged down mud lines, electrical lines, v-door, and catwalk.  Note: Final report for University 10-1 7H. Next report will be on University 10-1 6H

### Report #: 1 Daily Operation: 9/16/2013 06:00 - 9/17/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 43	Days on Location (days) 1	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

Operations Summary  
PLumb Surface & Intermediate. NU TBY Head & Frac Stack. 0 PSI on well.  
WSI at report time waiting on W/L.

Remarks  
No accidents or Incidents to report.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/16/2013 06:00	9/16/2013 12:00	6	COMPL	Other operations	OTHR	WSI
9/16/2013 12:00	9/17/2013 00:00	12	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Plumb Surface & Intermediate. NU TBY Head & NU Frac Stack. 0 PSI on well.
9/17/2013 00:00	9/17/2013 06:00	6	COMPL	Other operations	OTHR	WSI . No activity at report time waiting on W/L.

### Report #: 2 Daily Operation: 9/17/2013 06:00 - 9/18/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 44	Days on Location (days) 2	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

Operations Summary  
MIRU API WL & support equipment.  
RIH w/4.5" OD Gauge ring & Junk Basket to 7,800' WLM.  
RIH w/GYRO, CCL to 6,400' WLM  
RIH w/CBL, CCL. to 6,660' WLM  
Logged well from 6,660' to 2,600'. Estimated TOC @ 2,930'.  
0 psi shut in pressure.  
MIRU CTS CTU. Do psi test intermediate to 1,500 psi. Did not hold  
Tested casing to 8,500 psi @ time of report.

Remarks  
No accidents or Incidents to report.

CTS coil Downtime: 0 hrs  
RPS flowback Downtime: 0 hrs  
API wireline Downtime: 0 hrs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/17/2013 06:00	9/17/2013 14:00	8	COMPL	Other operations	OTHR	WSI waiting on wireline to complete log runs on 10-1 #6H.
9/17/2013 14:00	9/17/2013 15:30	1.5	COMPL	Other wireline operations	WLOTHR	MIRU API WL & support equipment. RIH w/4.5" OD Gauge ring & Junk Basket to 7,800' WLM. POOH
9/17/2013 15:30	9/17/2013 17:30	2	COMPL	Other wireline operations	WLOTHR	RIH w/GYRO, CCL and log to 6,400' WLM. POOH.
9/17/2013 17:30	9/17/2013 20:30	3	COMPL	Other wireline operations	WLOTHR	RIH w/radial CBL logging tools. Logged from 6,660' to 2,600'. Estimated TOC @ 2,930' WLM. POOH w/wireline & logging tools. RDMO wireline unit to 8H.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/17/2013 20:30	9/17/2013 21:30	1	MOBILIZATION	RDMO	RDMO	RD API wireline off location.
9/17/2013 21:30	9/18/2013 00:30	3	MOBILIZATION	MIRU	MIRU	MIRU CTS CTU, Rig up pump iron onto intermediate casing. Pickup injector head and. Picked up risers.
9/18/2013 00:30	9/18/2013 02:00	1.5	COMPL	Other operations	OTHR	RU BHA Consisting of th following:  Coil connector. OD- 2.875" length .93 DF Back PSI valve OD- 2.875" Length 1.22 w/ 2 3/8"PAC Box & 2 3/8" PAC Pin. CTT BiDi Jar OD-2.875" Length 5.20 w/ 2 3/8"PAC Box & @2 3/8" PAC Pin. Hydraulic Disconnect OD- 2875" Length 2.13 w/2 3/8" PAC Box & 2 3/8" PAC Pin. NOV Agitator OD-2.875" Length 4.91 w/2 3/8" PAC Box & 2 3/8" PAC Pin. Cir. Sub ID- 1" Length 0.56 2 7/8" Bico Motor Length 11.97 w/ 2 3/8"Box X- over Length .55 w/ 2 3/8"Pin & 2 7/8" Reg.Box 4 3/4" JZ Rock Bit Length .50 w/ 2 7/8" Reg. Pin. Total Length of tools 27.97'
9/18/2013 02:00	9/18/2013 04:00	2	COMPL_UNPLN D	Unplanned time due to OTHER pumping services`	U_PEOT H	Waiting on Thru Tubing piece for Pressure testing coil connector,
9/18/2013 04:00	9/18/2013 06:00	2	COMPL	Other operations	OTHR	Put on coil connector & Pull test & Pressure test to1,500 psi. Make up BHA and test motor. RU on well Pressure test BOP / Lubircator stack to 5000 psi. Pressured up to 1,500 psi on intermediate csg pressure wouldn't go above 711 psi kept falling off to 330 psi. within 3 mins. No test. Pressured up to 8,500 psi on csg @ time of report.

Report #: 3 Daily Operation: 9/18/2013 06:00 - 9/19/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 027769	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
45	3	15,556.5	-26.5		BAT PPS Frac Fleet, BAT PPS Frac Fleet			

Operations Summary  
RIH w/ 2 3/8" coil tbg & toe prep BHA.  
Tagged PBTD.  
Circulated clean out wash.  
POOH w/ coil & BHA  
WSI/ 0 psi casing pressure.

Remarks  
No accidents or Incidents to report.

CTS coil Downtime: 0 hrs  
RPS flowback Downtime: 0 hrs  
CDK Perforating Downtime: 0 hrs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/18/2013 06:00	9/18/2013 19:30	13.5	COMPL	Clean out with tubulars @ beginning of completion	TUB-CLNOUT	Continued to RIH w/ coil tbg & toe prep BHA. Tagged PBTD @ 15,500'. Circulated clean out wash. POOH w/ coil tbg & BHA.
9/18/2013 19:30	9/18/2013 20:30	1	COMPL	Other operations	OTHR	CT bumped up and shut well in. Nipple down risers off of well and laye down BHA from clean out run. PU TCP guns and nipple riser onto well.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/18/2013 20:30	9/19/2013 00:30	4	COMPL	TCP operations	TCP	Open well and RIH with CT and TCP guns to perforate 1st stage. Tagged pbtd @ 15,500' and pulled up to 1st shot and began perforating. Perforated from 15,480'-82', 15,420'-22', 15,360'-62', 15,300'-02', 15,240'-42'. Using 3 1/8" guns, 19 grm charge, 60 degree phasing, .42 EHD, 40 holes. Good indication all shoots fired and maintaing 550 psi on casing while POOH.
9/19/2013 00:30	9/19/2013 03:30	3	COMPL	Other operations	OTHR	POOH with CT and TCP guns. CT bumped. Shut well in, nipple down risers off of well and confirmed all guns fired.
9/19/2013 03:30	9/19/2013 04:30	1	COMPL	Other operations	OTHR	Lay down guns and CTU and support groups start rigging down. CTU rigged down and released CTU
9/19/2013 04:30	9/19/2013 06:00	1.5	COMPL	Other operations	OTHR	Well shut in waiting on frac. 0 psi casing pressure.

### Report #: 4 Daily Operation: 9/19/2013 06:00 - 9/20/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 46	Days on Location (days) 4	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary WSI waiting on frac						
Remarks NA						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/19/2013 06:00	9/20/2013 06:00	24	COMPL	Other operations	OTHR	WSI waiting on frac.

### Report #: 5 Daily Operation: 9/20/2013 06:00 - 9/21/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 47	Days on Location (days) 5	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary WSI waiting on frac						
Remarks NA						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/20/2013 06:00	9/21/2013 06:00	24	COMPL	Other operations	OTHR	WSI waiting on frac.

### Report #: 6 Daily Operation: 9/21/2013 06:00 - 9/22/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 48	Days on Location (days) 6	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary WSI waiting on frac.						
Remarks NA						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/21/2013 06:00	9/22/2013 06:00	24	COMPL	Other operations	OTHR	WSI waiting on frac.

### Report #: 7 Daily Operation: 9/22/2013 06:00 - 9/23/2013 06:00

Job Category			Primary Job Type			AFE Number
ORIG COMPLETION			OCM			027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
49	7	15,556.5	-26.5		BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary						
WSI waiting on frac.						
Remarks						
NA						

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/22/2013 06:00	9/23/2013 06:00	24	COMPL	Other operations	OTHR	WSI waiting on frac.

### Report #: 8 Daily Operation: 9/23/2013 06:00 - 9/24/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 50	Days on Location (days) 8	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary WSI waiting on frac.						
Remarks NA						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/23/2013 06:00	9/24/2013 06:00	24	COMPL	Other operations	OTHR	WSI waiting on frac.

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

Job Category			Primary Job Type			AFE Number
ORIG COMPLETION			OCM			027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
51	9	15,556.5	-26.5		BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary						
WSI waiting on frac.						
Remarks						
NA						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/24/2013 06:00	9/25/2013 06:00	24	COMPL	Other operations	OTHR	WSI waiting on frac.

### Report #: 10 Daily Operation: 9/25/2013 06:00 - 9/26/2013 06:00

Job Category			Primary Job Type			AFE Number
ORIG COMPLETION			OCM			027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
52	10	15,556.5	-26.5		BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary						
WSI waiting on frac.						
Remarks						
NA						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/25/2013 06:00	9/26/2013 06:00	24	COMPL	Other operations	OTHR	WSI waiting on frac.

### Report #: 11 Daily Operation: 9/26/2013 06:00 - 9/27/2013 06:00

Job Category			Primary Job Type			AFE Number
ORIG COMPLETION			OCM			027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
53	11	15,556.5	-26.5		BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary						
WSI waiting on frac.						
Remarks						
NA						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/26/2013 06:00	9/27/2013 06:00	24	COMPL	Shut down for night	SDFN	Well SI waiting on frac.

### Report #: 12 Daily Operation: 9/27/2013 06:00 - 9/28/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 54	Days on Location (days) 12	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	
Operations Summary WSI waiting on frac.						
Remarks NA						



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/27/2013 06:00	9/28/2013 06:00	24	COMPL	Shut down for night	SDFN	Well SI waiting on frac.

Report #: 13 Daily Operation: 9/28/2013 06:00 - 9/29/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 55	Days on Location (days) 13	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

#### Operations Summary

WSI waiting on frac.  
Repair sand belt  
Frac stg # 1 of 25  
Plug & Perf stg 2of 25  
Log out well  
WSI waiting on frac ops on the #'s 6 & 8.

#### Remarks

PPS Downtime: 6 hrs Cum Downtime 6 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 9,539  
RT - 0  
CR - 0  
LTR - 9,539

TSIF - 353,015

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/28/2013 06:00	9/28/2013 16:00	10	PROD1	OTHER	WSI	Well SI Waiting on frac
9/28/2013 16:00	9/28/2013 22:00	6	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	During acid stage it was discovered that the conveyor belt for the sand had a tear in the seam. Acid was displaced and frac SD. Parts to repair the belt were not on location and were delivered from Midland. After belt was repaired stage continued without further incident.
9/28/2013 22:00	9/29/2013 00:00	2	COMPL	Frac	STIM	FRAC STG # 1 of 25: Tested stack to 9008 psi. PPS frac'd perfs per schedule w/30 bbls 15% HCL, 36,617 lbs 100/Mesh sand, 316,398 lbs 30/50 sand & 9041 bbls slick water down 5.5" csg.  Formation broke @ 6482 psi @ 20 bpm Acid on form @ 40 bpm @ 6416 psi. Acid cleared @ 40 bpm @ 4313 psi.  Increased rate to 80 bpm. Pumped 1666 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Flushed well with 357 bbls. Ending rate 69 bpm @ 7246 psi. Placed 100% prop in formation.  Avg rate: 79 bpm Avg psi:6313 psi Max rate: 81 bpm Max psi: 8513 psi  Pad ISIP: 2884 psi FG: 0..80 psi/ft ISIP: 2018 psi FG: 0..69 psi/ft  FTR= 9071 bbls LTR= 18,738 bbls SIF= 353,015 lbs. TSIF= 353,015 lbs.
9/29/2013 00:00	9/29/2013 04:00	4	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 2 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 15,211. Perforated intervals 14,940 - 14,942, 15,000 - 15,002, 15,060 - 15,062, 15,120 - 15,122, 15,180 - 15,182 w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 18 bpm/5700 psi. Line speed 301 ft/min. Logged well out after perfling.  FTR: 468 bbls

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/29/2013 04:00	9/29/2013 06:00	2	PROD1	OTHER	WSI	WSI pending frac ops on # 8 & # 6

### Report #: 14 Daily Operation: 9/29/2013 06:00 - 9/30/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 56	Days on Location (days) 14	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

#### Operations Summary

Fraced stg 2  
Plug & perf stg 3  
Well SI waiting on blender to finish stg 3 on the #6 well @ report time.

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 6 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 19,138  
RT - 0  
CR - 0  
LTR - 19,138

TSIF - 703,894

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/29/2013 06:00	9/29/2013 10:15	4.25	COMPL	Frac	STIM	Well SI waiting to frac.
9/29/2013 10:15	9/29/2013 12:45	2.5	COMPL	Frac	STIM	<p>FRAC STG # 2 of 25: Tested stack to 8,500 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 37,143 lbs 100/Mesh sand, 313,736 lbs 30/50 sand &amp; 9,199 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 4,222 psi @ 20 bpm Acid on form @ 40 bpm @ 6,114 psi. Acid cleared @ 40 bpm @ 5,315 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppg to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 1.50 ppg. Flushed well with 447 bbls. Ending rate 80 bpm @ 5,733 psi. Placed 100% prop in formation.</p> <p>Avg rate: 81 bpm Avg psi: 6,069 psi Max rate: 82 bpm Max psi: 6,696 psi</p> <p>Pad ISIP: 3,065 psi FG: 0.83 psi/ft ISIP: 1,811 psi FG: 0.67 psi/ft</p> <p>FTR= 9,199 bbls LTR= 18,738 bbls SIF= 350,879 lbs. TSIF= 703,894 lbs.</p> <p>During 1.50# 30/50, pressure began to rise slowly so 1.50# was held to monitor pressure.</p>
9/29/2013 12:45	9/29/2013 15:30	2.75	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 3 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 14,611'. Perforated intervals 14,880' - 14,882', 14,820' - 14,822', 14,760' - 14,762', 14,700' - 14,702' &amp; 14,640' - 14,642' w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL. Pump down @ 19 bpm/ 4,800 psi. Line speed 240 ft/min.</p> <p>FTR: 400 bbls LTR: 19,138 bbls</p>
9/29/2013 15:30	9/29/2013 19:30	4	COMPL	Frac	STIM	Well SI waiting on frac.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/29/2013 19:30	9/30/2013 06:00	10.5	PROD1	OTHER	WSI	Well shut in waiting on blender to be repaired to finish stg 3 on the #6 well @ report time.
9/30/2013 06:00	9/30/2013 06:00					

Report #: 15 Daily Operation: 9/30/2013 06:00 - 10/1/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 57	Days on Location (days) 15	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

#### Operations Summary

Waited on blender to be repaired.

Frac'd stg 3

Perforated stg 4

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 6 hrs

Priority Downtime: 0 hrs

ArkLaTex Wireline Downtime: 0 hrs

FTR - 29,016

RT - 0

CR - 0

LTR - 29,016

TSIF - 1,020,029

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/30/2013 06:00	9/30/2013 15:00	9	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	Waited on blender to be repaired.
9/30/2013 15:00	9/30/2013 18:30	3.5	COMPL	Frac	STIM	<p>FRAC STG # 3 of 25: Tested stack to 8,500 psi. PPS frac'd perms per schedule w/ 20 bbls 15% HCL, 29,779 lbs 100/Mesh sand, 286,356 lbs 30/50 sand &amp; 9,494 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 4,230 psi @ 20 bpm Acid on form @ 40 bpm @ 4,271 psi. Acid cleared @ 40 bpm @ 4,336 psi.</p> <p>Increased rate to 75 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 2.00 ppg. Flushed well with 441 bbls. Ending rate 75 bpm @ 6,029 psi. Placed 90% prop in formation.</p> <p>Avg rate: 74 bpm Avg psi: 5,568 psi Max rate: 84 bpm Max psi: 6,925 psi</p> <p>Pad ISIP: 2,838 psi FG: 0.80 psi/ft ISIP: 2,235 psi FG: 0.72 psi/ft</p> <p>FTR= 9,494 bbls LTR= 28,632 bbls SIF= 316,135 lbs. TSIF= 1,020,029 lbs.</p> <p>Shutdown on pad due to chemicals not running. Hoses were clogged up and after cleaning them stage was resumed. Stage was pumped at 75 bpm due to lose of frac pumps. During 1.75# 30/50, pressure began to increase so sand was cut and well was flushed. After flush pressure decreased and resumed sand at 1.00#. Increased sand up to 2.0# and completed remainder of stage at 2.0#. Due to another pressure increase sand was cut during 2.0# and well was flushed. Pumped a total of 316,135 lbs for the stage (90% of design)</p>

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/30/2013 18:30	9/30/2013 20:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 4 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 14,611'. Perforated intervals 14,340' - 14,342', 14,400' - 14,402', 14,460' - 14,462', 14,520' - 14,522' & 14,580' - 14,582' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 19 bpm/ 5,600 psi. Line speed 360 ft/min.  FTR: 384 bbls  LTR - 29,016
9/30/2013 20:30	10/1/2013 06:00	9.5	COMPL	Frac	STIM	Well SI waiting to frac.

Report #: 16 Daily Operation: 10/1/2013 06:00 - 10/2/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769	
Days From Spud (days) 58	Days on Location (days) 16	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	BAT PPS Frac Fleet, BAT PPS Frac Fleet	

#### Operations Summary

WSI pending frac ops on 6H  
Frac stg # 4  
Plug & Perf stg 5  
Frac'd stg 5  
Shut down frac operations due to frac communicating with nearby drilling rig.

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 6 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 45,134  
RT - 0  
CR - 0  
LTR - 45,134

TSIF - 1,637,670

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/1/2013 06:00	10/1/2013 07:30	1.5	PROD1	OTHER	WSI	WSI pending frac ops on 6H
10/1/2013 07:30	10/1/2013 09:30	2	COMPL	Frac	STIM	FRAC STG # 4 of 25: Tested stack to 8,500 psi. PPS frac'd perfs per schedule w/ 40 bbls 15% HCL, 29,166 lbs 100/Mesh sand, 321,537 lbs 30/50 sand & 8,470 bbls slick water down 5.5" csg.  Formation broke @ 4,620 psi @ 20 bpm Acid on form @ 40 bpm @ 4,250 psi. Acid cleared @ 40 bpm @ 4,482 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 2.25 ppg. Flushed well with 433 bbls. Ending rate 80 bpm @ 5,029 psi. Placed 100% prop in formation.  Avg rate: 75 bpm Avg psi: 5,698 psi Max rate: 81 bpm Max psi: 7,482 psi  Pad ISIP: 2,802 psi FG: 0.80 psi/ft ISIP: 1,947 psi FG: 0.69 psi/ft  FTR= 8,470 bbls LTR= 37,486 bbls SIF= 350,703 lbs. TSIF= 1,370,732 lbs.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/1/2013 09:30	10/1/2013 12:00	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 5 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 14,311'. Perforated intervals 14,040' - 14,042', 14,100' - 14,102', 14,160' - 14,162', 14,220' - 14,222' & 14,280' - 14,282' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 19 bpm/ 4,700 psi. Line speed 250 ft/min.  FTR: 347 bbls  LTR - 37,833
10/1/2013 12:00	10/1/2013 20:00	8	PROD1	OTHER	WSI	WSI pending frac ops on # 6 & 8
10/1/2013 20:00	10/1/2013 22:00	2	PROD1	WORK	STIM	FRAC STG # 5 of 25: Tested stack to 8,500 psi. PPS frac'd perfs per schedule w/ 60 bbls 15% HCL, 35,242 lbs 100/Mesh sand, 231,696 lbs 30/50 sand & 7,241 bbls slick water down 5.5" csg.  Formation broke @ 4,291 psi @ 20 bpm Acid on form @ 20 bpm @ 4,270 psi. Acid cleared @ 20 bpm @ 3,750 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppg to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 2.0 ppg. Flushed well with 381 bbls. Ending rate 80 bpm @ 5,857 psi.  Avg rate: 79 bpm Avg psi: 5,407 psi Max rate: 81 bpm Max psi: 6,327 psi  Pad ISIP: 2,329 psi FG: 0.73 psi/ft ISIP: 2,624 psi FG: 0.77 psi/ft  FTR= 7,301 bbls LTR= 45,134 bbls SIF= 266,938 lbs. TSIF= 1,637,670 lbs.  Note: Cut frac short due to frac communicating with nearby drilling rig. Did not pump 2.25ppg 30/50 sand stage.
10/1/2013 22:00	10/2/2013 06:00	8	COMPL	Shut down for night	SDFN	Shut down frac operations due to frac communicating with nearby drilling rig.

Report #: 17 Daily Operation: 10/2/2013 06:00 - 10/3/2013 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)
59	17	15,556.5
		End Depth (TVD) (ftGRD)
		-26.5
Dens Last Mud (lb/gal)	Rig	
	BAT PPS Frac Fleet, BAT PPS Frac Fleet	

#### Operations Summary

Shutdown all frac operations due to communication with nearby drilling rig.

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 6 hrs

Priority Downtime: 0 hrs

ArkLaTex Wireline Downtime: 0 hrs

FTR - 45,134

RT - 0

CR - 0

LTR - 45,134

TSIF - 1,637,670

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/2/2013 06:00	10/3/2013 06:00	24	COMPL	Other operations	OTHR	Shutdown all frac operations due to communication with nearby drilling rig

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

**Report #: 18 Daily Operation: 10/3/2013 06:00 - 10/4/2013 06:00**

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 60	Days on Location (days) 18	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

**Operations Summary**

P/P Stage 6

During Stage 6, blender went down during pad. Shutdown and began rigging down blender to replace with standby.

**Remarks**

PPS Downtime: 0 hrs Cum Downtime 6 hrs

Priority Downtime: 0 hrs

ArkLaTex Wireline Downtime: 0 hrs

FTR - 45,134

RT - 0

CR - 0

LTR - 45,134

TSIF - 1,637,670

**Time Log Summary**

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/3/2013 06:00	10/3/2013 18:00	12	PROD1	OTHER	WSI	Wait on drilling rig to set plug
10/3/2013 18:00	10/3/2013 20:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 6 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 14,011'. Perforated intervals 13,740' - 13,742', 13,800' - 13,802', 13,860' - 13,862', 13,920' - 13,922' & 13,980' - 13,982' w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 19 bpm/ 5,600 psi. Line speed 250 ft/min.  FTR: 366 bbls  LTR - 45,500
10/3/2013 20:00	10/4/2013 03:00	7	PROD1	OTHER	WSI	Waiting on frac operations on 8H and hydraulic oil for the blender.
10/4/2013 03:00	10/4/2013 06:00	3	COMPL	Frac	STIM	Began Stage 6 at 03:00. Cleared acid and shutdown for ISIP. During pad while increasing rate, the main seal on the blender tub went out. Shutdown and began rigging down the blender to swap out with standby blender.

**Report #: 19 Daily Operation: 10/4/2013 06:00 - 10/5/2013 06:00**

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 61	Days on Location (days) 19	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

**Operations Summary**

WSI changing out blender

Start stage 6 frac @ report time.

**Remarks**

PPS Downtime: 7 hrs Cum Downtime 13 hrs

Priority Downtime: 0 hrs

ArkLaTex Wireline Downtime: 0 hrs

FTR - 55,504

RT - 0

CR - 0

LTR - 55,504

TSIF - 1,826,205

**Time Log Summary**

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/4/2013 06:00	10/4/2013 11:00	5	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	WSI changing out the blender



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/4/2013 11:00	10/4/2013 14:30	3.5	COMPL	Frac	STIM	<p>FRAC STG # 6 of 25: Tested stack to 9,709 psi. PPS frac'd perfs per schedule w/ 40 bbls 15% HCL, 29,458 lbs 100/Mesh sand, 159,770 lbs 30/50 sand &amp; 9613 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 4860 psi @ 20 bpm Acid on form @ 20 bpm @ 3255 psi. Acid cleared @ 20 bpm @ 3105 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 1.75 ppg. Flushed well with 400 bbls. Ending rate 80 bpm @ 6789 psi.</p> <p>Avg rate: 76 bpm    Avg psi: 6056 psi Max rate: 86 bpm    Max psi: 8278 psi</p> <p>Pad ISIP: 2797 psi      FG: 0.80 psi/ft ISIP: 2327 psi          FG: 0.74 psi/ft</p> <p>FTR= 9653 bbls    LTR= 55,153 bbls SIF= 188,535 lbs.    TSIF= 1,826,205 lbs.</p>
10/4/2013 14:30	10/4/2013 17:00	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 7 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 13,711'. Perforated intervals 13,680' - 13,682", 13,620' - 13,622", 13,560' - 13,562', 13,500' - 13,502' &amp; 13,440' - 13,442" w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 15 bpm/ 4,900 psi. Line speed 250 ft/min.</p> <p>FTR: 351 bbls</p> <p>LTR - 55,504 bbls</p>
10/4/2013 17:00	10/5/2013 05:00	12	COMPL	Other operations	OTHR	Wait for Frac ops on #6, and #8
10/5/2013 05:00	10/5/2013 06:00	1	COMPL	Frac	STIM	RU & start stage 7 frac. Frac report continued on next day's report.

**Report #: 20    Daily Operation: 10/5/2013 06:00 - 10/6/2013 06:00**

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 027769	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
62	20	15,556.5	-26.5		BAT PPS Frac Fleet, BAT PPS Frac Fleet			

Operations Summary  
Frac Stages 7 & 8  
WL Stages 8 & 9 & 10

Remarks  
PPS    Downtime: 0 hrs    Cum Downtime 13 hrs  
Priority    Downtime: 0 hrs  
ArkLaTex Wireline    Downtime: 0 hrs

FTR - 25,903 bbls 24hr ttl  
RT - 0  
CR - 0  
LTR - 81,407 bbls  
TSIF - 2,881,539 lbs

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/5/2013 06:00	10/5/2013 07:30	1.5	COMPL	Frac	STIM	<p>FRAC STG # 7 of 25: Tested stack to 9,709 psi. PPS frac'd perms per schedule w/ 20 bbls 15% HCL, 35,909 lbs 100/Mesh sand, 116,791 lbs 30/50 sand, &amp; 162,823 lbs 30/50 sand &amp; 8,440 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 4867 psi @ 20 bpm Acid on form @ 20 bpm @ 6035 psi. Acid cleared @ 20 bpm @ 5,321 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 40/70 &amp; 30/50 sand from 0.5 ppg – 1.75 ppg. Flushed well with 400 bbls. Ending rate 80 bpm @ 6309 psi.</p> <p>PPS came out of wrong silo and we pumped est 115k of 40/70 from .5# into 1.25#. Bad communication during crew swap out</p> <p>Avg rate: 76 bpm    Avg psi: 5,853 psi Max rate: 80 bpm    Max psi: 7,481 psi</p> <p>Pad ISIP: 2,907 psi      FG: 0.811 psi/ft ISIP: 2195 psi          FG: 0.718 psi/ft</p> <p>FTR= 8,440 bbls    LTR= 63,944 bbls SIF= 351,432 lbs.    TSIF= 2,177,637 lbs.</p>
10/5/2013 07:30	10/5/2013 09:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 8 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 13,406'. Perforated intervals 13,380' - 13,382', 13,320' - 13,322', 13,260' - 13,262', 13,200' - 13,202' &amp; 13,140' - 13,142' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 15 bpm/ 4,100 psi. Line speed 250 ft/min.</p> <p>FTR: 316 bbls</p> <p>LTR - 64260 bbls</p>
10/5/2013 09:30	10/5/2013 16:00	6.5	COMPL	Other operations	OTHR	Wait for Frac Ops on #6 and #8

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/5/2013 16:00	10/5/2013 18:00	2	COMPL	Frac	STIM	<p>FRAC STG # 8 of 25: Tested stack to 9,800 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 37,824 lbs 100/Mesh sand, 313,900 lbs 30/50 sand, &amp; 8,284 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 3,675 psi @ 20 bpm Acid on form @ 20 bpm @ 5,301 psi. Acid cleared @ 20 bpm @ 4,765 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 2.25 ppg. Flushed well with 384 bbls. Ending rate 80 bpm @ 5,692 psi.</p> <p>Avg rate: 81 bpm    Avg psi: 5,661 psi Max rate: 80 bpm    Max psi: 6,535 psi</p> <p>Pad ISIP: 2,673 psi      FG: 0.78 psi/ft ISIP: 2,069 psi      FG: 0.70 psi/ft</p> <p>FTR= 8,284 bbls    LTR= 72,544 bbls SIF= 351,724 lbs.    TSIF= 2,529,361 lbs.</p>
10/5/2013 18:00	10/5/2013 20:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 9 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 13,106'. Perforated intervals 13,080' - 13,082', 13,020' - 13,022', 12,960' - 12,962', 12,900' - 12,902' &amp; 12,840' - 12,842' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 16 bpm/ 5,300 psi. Line speed 250 ft/min.</p> <p>FTR: 292 bbls</p> <p>LTR - 72,836 bbls</p>
10/5/2013 20:00	10/6/2013 02:00	6	COMPL	Other operations	OTHR	Wait for Frac Ops on #6 and #8
10/6/2013 02:00	10/6/2013 04:00	2	COMPL	Frac	STIM	<p>FRAC STG # 9 of 25: Tested stack to 9,800 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 36,964 lbs 100/Mesh sand, 315,214 lbs 30/50 sand, &amp; 8,296 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 4,276 psi @ 20 bpm Acid on form @ 20 bpm @ 4,588 psi. Acid cleared @ 20 bpm @ 4,388 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 2.25 ppg. Flushed well with 401 bbls. Ending rate 80 bpm @ 5,884 psi.</p> <p>Avg rate: 74 bpm    Avg psi: 5,543 psi Max rate: 80 bpm    Max psi: 6,035 psi</p> <p>Pad ISIP: 2,645 psi      FG: 0.78 psi/ft ISIP: 2,019 psi      FG: 0.70 psi/ft</p> <p>FTR= 8,296 bbls    LTR= 81,132 bbls SIF= 352,178 lbs.    TSIF= 2,881,539 lbs.</p>

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/6/2013 04:00	10/6/2013 06:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 10 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 12,811'. Perforated intervals 12,780' - 12,782', 12,720' - 12,722', 12,660' - 12,662', 12,600' - 12,602' & 12,540' - 12,542' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 16 bpm/ 5,100 psi. Line speed 300 ft/min.  FTR: 275 bbls  LTR - 81,407 bbls

Report #: 21 Daily Operation: 10/6/2013 06:00 - 10/7/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027769
Days From Spud (days) 63	Days on Location (days) 21	End Depth (ftGRD) 15,556.5
End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet

#### Operations Summary

Frac Stage 10 & WL Stage 11.

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 13 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 8,433 bbls 24hr ttl  
RT - 0  
CR - 0  
LTR - 89,840 bbls

TSIF - 3,191,855 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/6/2013 06:00	10/6/2013 21:30	15.5	COMPL	Other operations	OTHR	Waiting for Frac ops on #6 and #8
10/6/2013 21:30	10/6/2013 23:30	2	COMPL	Frac	STIM	FRAC STG # 10 of 25: Tested stack to 9,800 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 38,133 lbs 100/Mesh sand, 272,183 lbs 30/50 sand, & 8,133 bbls slick water down 5.5" csg.  Formation broke @ 4,324 psi @ 20 bpm Acid on form @ 20 bpm @ 4,771 psi. Acid cleared @ 20 bpm @ 5,652 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppg to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 2.00 ppg. Flushed well with 391 bbls. Ending rate 80 bpm @ 6,175 psi.  Avg rate: 79 bpm Avg psi: 5,480 psi Max rate: 80 bpm Max psi: 6,168 psi  Pad ISIP: 3,345 psi FG: .87 psi/ft ISIP: 2,151 psi FG: .71 psi/ft  During 2.00# sand PPS was trying to make the swap to another sand silo when they couldnt the gates to open. After we shutdown the mechanic located the problem and frac activity continued. 90% of the designed prop was placed.  FTR= 8,133 bbls LTR= 89,540 bbls SIF= 310,316 lbs. TSIF= 3,191,855 lbs.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/6/2013 23:30	10/7/2013 01:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 11 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 12,511' Perforated intervals 12,480' - 12,482', 12,420' - 12,422', 12,360' - 12,362', 12,300' - 12,302' & 12,240' - 12,242' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 16 bpm/ 5,100 psi. Line speed 300 ft/min.  FTR: 300 bbls  LTR - 89,840 bbls
10/7/2013 01:30	10/7/2013 06:00	4.5	COMPL	Other operations	OTHR	Waiting for Frac ops on #6 and #8

Report #: 22 Daily Operation: 10/7/2013 06:00 - 10/8/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027769
Days From Spud (days) 64	Days on Location (days) 22	End Depth (ftGRD) 15,556.5
	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal) BAT PPS Frac Fleet, BAT PPS Frac Fleet

#### Operations Summary

Frac Stages 11 &  
WL stage 12.

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 13 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 98,432 bbls  
RT - 0  
CR - 0  
LTR - 98,432 bbls

TSIF - 3,507,220 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/7/2013 06:00	10/7/2013 15:30	9.5	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	Waited on frac to make crew change, reload scale inhibitor and prime/test. During prime up, crew noticed tub wear plate was out, swapping blenders @ 0800 hrs Blender swapped out and priming and testing again @ 1300 hrs 8" valve on blender will not open, have to change out @ 1315 hrs Completed blender valve @ 1430 hrs Repaired pump while fixing blender Primed and tested again @ 1500 hrs
10/7/2013 15:30	10/7/2013 17:30	2	COMPL	Frac	STIM	FRAC STG # 11 of 25: Tested stack to 9,800 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 35,871 lbs 100/Mesh sand, 315,365 lbs 30/50 sand, & 8,436 bbls slick water down 5.5" csg.  Formation broke @ 20 bpm @ 4151 psi Acid on form @ 20 bpm @ 4,467 psi. Acid cleared @ 60 bpm @ 5,073 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 2.00 ppg. Flushed well with 356 bbls. Ending rate 80 bpm @ 6,350 psi.  Avg rate: 76 bpm Avg psi: 5,913 psi Max rate: 80 bpm Max psi: 6,668 psi  Pad ISIP: 2,727 psi FG: .79 psi/ft ISIP: 2,170 psi FG: .72 psi/ft  LTR= 8,436 bbls FTR= 98,276 bbls SIF= 315,365 lbs. TSIF= 3,507,220 lbs.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/7/2013 17:30	10/7/2013 19:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU Ark Lat Tex WL for Stage # 12 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 12,211' Perforated intervals 11,940' - 11,942', 12,000' - 12,002', 12,060' - 12,062', 12,120' - 12,122', 12,180' - 12,182' w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 18 bpm/ 4,400 psi. Line speed 300 ft/min.  Pumped: 156 bbls  FTR - 98,432 bbls
10/7/2013 19:30	10/8/2013 06:00	10.5	COMPL	Other operations	OTHR	Waiting for Frac ops

Report #: 23 Daily Operation: 10/8/2013 06:00 - 10/9/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769	
Days From Spud (days) 65	Days on Location (days) 23	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	BAT PPS Frac Fleet, BAT PPS Frac Fleet	

#### Operations Summary

Frac Stage 12, 13  
P/P Stage 13, 14

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 13 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 116,299 bbls

RT - 0

CR - 0

FTR= 116,299 bbls TSIF= 4,191,825 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/8/2013 06:00	10/8/2013 09:00	3	COMPL	Frac	STIM	FRAC STG # 12 of 25: Tested stack to 9,800 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 35,142 lbs 100/Mesh sand, 298,177 lbs 30/50 sand, & 8,825 bbls slick water down 5.5" csg.  Formation broke @ 20 bpm @ 4,314 psi Acid on form @ 20 bpm @ 4,344 psi. Acid cleared @ 60 bpm @ 6,897 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 1.75 ppg. On 1.75 ppa pressured up to 8598 psi from 6,276 psi. Cut sand, swept hole. Pressure back down to 5550 psi. Ramp back to 1.0 ppa then 2.0 ppa-2.25 ppa. Cut sand early on 2.25 ppa Flushed well with 408 bbls. Ending rate 75 bpm @ 8989. psi. Cut rate on flush to maintain 8500 psi. 95% sand in formation.  Avg rate: 76 bpm Avg psi: 5,570 psi Max rate: 80 bpm Max psi: 8989 psi  Pad ISIP: 2,843 psi FG: .80 psi/ft ISIP: 3,212 psi FG: .85 psi/ft  LTR= 8,825 bbls FTR= 107,257 bbls SIF= 333,319 lbs. TSIF= 3,804,539 lbs.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/8/2013 09:00	10/8/2013 11:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU Ark Lat Tex WL for Stage # 13 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 11,937' Perforated intervals 11,640'/11,642',11,700'/11,702',11,760'/11,762',11,820'/11,822', 11,880'/11,882', w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 16 bpm/ 5,100 psi. Line speed 300 ft/min.  Pumped: 268 bbls  FTR - 107,525 bbls
10/8/2013 11:00	10/8/2013 19:00	8	COMPL	Other operations	OTHR	WO frac ops on 6 & 8H
10/8/2013 19:00	10/8/2013 22:00	3	COMPL	Frac	STIM	FRAC STG # 13 of 25: Tested stack to 9,800 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 37,658 lbs 100/Mesh sand, 313,628 lbs 30/50 sand, & 8,474 bbls slick water down 5.5" csg.  Formation broke @ 20 bpm @ 4,253 psi Acid on form @ 20 bpm @ 4,885 psi. Acid cleared @ 60 bpm @ 5,770 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 2.25 ppg. Flushed well with 369 bbls. Ending rate 80 bpm @ 5540 psi.  Avg rate: 79 bpm Avg psi: 5616 psi Max rate: 80 bpm Max psi: 6439 psi  Pad ISIP: 2,987 psi FG: 0.82 psi/ft ISIP: 2016 psi FG: 0.70 psi/ft  LTR= 8,474 bbls FTR= 115,999 bbls SIF= 351,286 lbs. TSIF= 4,191,825 lbs.
10/8/2013 22:00	10/9/2013 00:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU Ark Lat Tex WL for Stage # 14 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 11,611' Perforated intervals 11,580'/11,582',11,520'/11,522',11,460'/11,462',11,400'/11,402', 11,340'/11,342', w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 16 bpm/ 4,800 psi. Line speed 300 ft/min.  Pumped: 300 bbls  FTR - 116,299 bbls
10/9/2013 00:00	10/9/2013 06:00	6	COMPL	Shut down for night	SDFN	WO frac ops on 6 & 8H  FTR 116,299

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 24 Daily Operation: 10/9/2013 06:00 - 10/10/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 027769				
Days From Spud (days) 66		Days on Location (days) 24		End Depth (ftGRD) 15,556.5		End Depth (TVD) (ftGRD) -26.5		Dens Last Mud (lb/gal)		Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

Operations Summary  
Frac Stage 14  
Wireline Stage 15

Remarks  
PPS Downtime: 0 hrs Cum Downtime 13 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 125,461 bbls  
RT - 0  
CR - 0  
FTR= 125,461 bbls TSIF= 4,543,327 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/9/2013 06:00	10/9/2013 19:30	13.5	COMPL	Other operations	OTHR	Waiting for Frac Ops on #6 and #8
10/9/2013 19:30	10/9/2013 22:00	2.5	COMPL	Frac	STIM	<p>FRAC STG # 14 of 25: Tested stack to 9,800 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 38,002 lbs 100/Mesh sand, 313,500 lbs 30/50 sand, &amp; 8,961 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4,405 psi Acid on form @ 20 bpm @ 6477 psi. Acid cleared @ 60 bpm @ 3,607 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 1.50 ppg. Lost power to Hydration unit. Cut sand and flushed well with 364 bbl. Bypassed Hydration. Achieved 75 bpm. Start 1.75ppg--2.25 ppg. Flushed well with 367 bbls. Ending rate 75 bpm @ 6,196 psi. 100% SIF</p> <p>Avg rate: 77 bpm Avg psi: 5,409 psi Max rate: 80 bpm Max psi: 6,771 psi</p> <p>Pad ISIP: 2,840 psi FG: 0.802 psi/ft ISIP: 1,906 psi FG: 0.689 psi/ft</p> <p>LTR= 8,961 bbls FTR= 125260 bbls SIF= 351,502 lbs. TSIF= 4,543,327 lbs.</p>
10/9/2013 22:00	10/10/2013 00:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Ark Lat Tex WL for Stage # 15 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 11,311'</p> <p>Perforated intervals 11,280'/11,282', 11,220'/11,222', 11,162'/11,164', 11,100'/11,102', 11,040'/11,042', w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 18 bpm/ 4,900 psi. Line speed 250 ft/min.</p> <p>Pumped: 201 bbls</p> <p>FTR - 125,461 bbls</p>
10/10/2013 00:00	10/10/2013 06:00	6	COMPL	Other operations	OTHR	Waiting for Frac Ops on #6 and #8

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 25 Daily Operation: 10/10/2013 06:00 - 10/11/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 67	Days on Location (days) 25	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

### Operations Summary

Frac stage 15

WL stage 16

### Remarks

PPS Downtime: 2.75 hrs Cum Downtime 15.75 hrs

Priority Downtime: 0 hrs

ArkLaTex Wireline Downtime: 0 hrs

FTR - 134,343 bbls

RT - 0

CR - 0

FTR= 134,343 bbls TSIF= 4,893,391 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/10/2013 06:00	10/10/2013 23:00	17	COMPL	Other operations	OTHR	Waiting on FRAC OPER on #6 & #8H
10/10/2013 23:00	10/10/2013 23:45	0.75	COMPL	Frac	STIM	Pumped 20 bbls HCL and SD after increasing rate to 80 bpm on Pad. Leak on Chicksan pump iron at Zipper manifold.
10/10/2013 23:45	10/11/2013 01:45	2	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	WSI waiting for replacement 4" Chicksan on pump iron at zipper manifold.
10/11/2013 01:45	10/11/2013 03:45	2	COMPL	Frac	STIM	<p>FRAC STG # 15 of 25: Tested stack to 9,800 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 38123 lbs 100/Mesh sand, 311,941 lbs 30/50 sand, &amp; 8707 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4186 psi Acid on form @ 40 bpm @ 5469 psi. Acid cleared @ 60 bpm @ 4583 psi.</p> <p>Increased rate to 80 bpm. Pumped 1285 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg--2.25 ppg. Flushed well with 335 bbls. Ending rate 80 bpm @ 5635 psi. 100% SIF</p> <p>Avg rate: 79 bpm Avg psi: 5661 psi Max rate: 81 bpm Max psi: 6451 psi</p> <p>Pad ISIP: 3021 psi FG: 0.82 psi/ft ISIP: 2086 psi FG: 0.70 psi/ft</p> <p>LTR= 8707 bbls FTR= 134,168 bbls SIF= 350,064 lbs. TSIF= 4,893,391 lbs.</p>
10/11/2013 03:45	10/11/2013 05:30	1.75	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Ark Lat Tex WL for Stage # 16 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 11,011' Perforated intervals 10,740'/10,742', 10,800'/10,802', 10,860'/10,862', 10,920'/10,922', 10,980'/10,982', w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 15 bpm/ 4,900 psi. Line speed 250 ft/min.</p> <p>Pumped: 175 bbls</p> <p>FTR - 134,343 bbls</p>
10/11/2013 05:30	10/11/2013 06:00	0.5	COMPL	Other operations	OTHR	Wo frac ops on 6&8H

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 26 Daily Operation: 10/11/2013 06:00 - 10/12/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 68	Days on Location (days) 26	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

Operations Summary

Frac stage 16 thru 17  
WL stage 17 thru 18

Remarks

PPS Downtime: 0 hrs Cum Downtime 15.75 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 151,340 bbls  
RT - 0  
CR - 0  
FTR= 151,340 bbls TSIF= 5,597,668 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/11/2013 06:00	10/11/2013 11:45	5.75	COMPL	Other operations	OTHR	Wo frac ops on 6&8H
10/11/2013 11:45	10/11/2013 14:00	2.25	COMPL	Frac	STIM	<p>FRAC STG # 16 of 26: Tested stack to 9,214 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 36,982 lbs 100/Mesh sand, 314,801 lbs 30/50 sand, &amp; 8,354 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4316 psi Acid on form @ 40 bpm @ 5599 psi. Acid cleared @ 60 bpm @ 4372 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppg to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 2.25 ppg. Flushed well with 350 bbls. Ending rate 80 bpm @ 5109 psi. 100% SIF.</p> <p>Avg rate: 78 bpm Avg psi: 5253 psi Max rate: 80 bpm Max psi: 6176 psi</p> <p>Pad ISIP: 2998 psi FG: .82 psi/ft ISIP: 2447 psi FG: .75 psi/ft</p> <p>LTR= 8,354 bbls FTR= 142,697 bbls SIF= 351,783 lbs. TSIF= 5,245,174 lbs.</p>
10/11/2013 14:00	10/11/2013 16:30	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Ark Lat Tex WL for Stage # 17 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 10711'</p> <p>Perforated intervals 10680'/10682', 10620'/10622', 10560'/10562', 10500'/10502', 10440'/10442', w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 15 bpm/ 3137 psi. Line speed 250 ft/min.</p> <p>Pumped: 167 bbls</p> <p>FTR - 142,864 bbls</p>
10/11/2013 16:30	10/12/2013 00:00	7.5	COMPL	Other operations	OTHR	WO frac ops on 6&8H

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/12/2013 00:00	10/12/2013 02:00	2	COMPL	Frac	STIM	<p>FRAC STG # 17 of 26: Tested stack to 9,214 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 35,956 lbs 100/Mesh sand, 316,538 lbs 30/50 sand, &amp; 8308 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4110 psi Acid on form @ 40 bpm @ 5873 psi. Acid cleared @ 60 bpm @ 4984 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 2.25 ppg. Flushed well with 321 bbls. Ending rate 80 bpm @ 5666 psi. 100% SIF.</p> <p>Avg rate: 78 bpm Avg psi: 5818 psi Max rate: 80 bpm Max psi: 6416 psi</p> <p>Pad ISIP: 3011 psi FG: .82 psi/ft ISIP: 2427 psi FG: .74 psi/ft</p> <p>LTR= 8308 bbls FTR= 151,172 bbls SIF= 352,494 lbs. TSIF= 5,597,668 lbs.</p>
10/12/2013 02:00	10/12/2013 04:30	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Ark Lat Tex WL for Stage # 18 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 10,411'</p> <p>Perforated intervals 10,140'/10,142',10,200'/10,202',10,260'/10,262',10,320'/10,322', 10,380'/10,382, w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 15 bpm/ 3137 psi. Line speed 250 ft/min.</p> <p>Pumped: 168 bbls</p> <p>FTR - 151,340 bbls</p>
10/12/2013 04:30	10/12/2013 06:00	1.5	COMPL	Other operations	OTHR	WO frac ops on 6&8H

### Report #: 27 Daily Operation: 10/12/2013 06:00 - 10/13/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 69	Days on Location (days) 27	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

#### Operations Summary

Frac stages 18 thru 19  
Plug & Perfed stg. 19 thru 20

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 15.75 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs

FTR - 168,135 bbls  
RT - 0  
CR - 0  
FTR= 168,135 bbls TSIF= 6,302,490 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/12/2013 06:00	10/12/2013 06:30	0.5	COMPL	Other operations	OTHR	Held safety meeting
10/12/2013 06:30	10/12/2013 10:30	4	COMPL	Other operations	OTHR	WO frac ops on 6&8H

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/12/2013 10:30	10/12/2013 12:45	2.25	COMPL	Frac	STIM	<p>FRAC STG # 18 of 26: Tested stack to 9123 psi. PPS frac'd perms per schedule w/ 20 bbls 15% HCL, 37,377 lbs 100/Mesh sand, 314,168 lbs 30/50 sand, &amp; 8,241 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4177 psi Acid on form @ 40 bpm @ 4208 psi. Acid cleared @ 60 bpm @ 3946 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 2.25 ppg. Flushed well with 335 bbls. Ending rate 80 bpm @ 4937 psi. 100% SIF.</p> <p>Avg rate: 77 bpm Avg psi: 5236 psi Max rate: 80 bpm Max psi: 5856 psi</p> <p>Pad ISIP: 3081 psi FG: .83 psi/ft ISIP: 2035 psi FG: .76 psi/ft</p> <p>LTR= 8,241 bbls FTR= 159,581 bbls SIF= 351,545 lbs. TSIF= 5,949,213 lbs.</p>
10/12/2013 12:45	10/12/2013 14:30	1.75	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Ark Lat Tex WL for Stage # 19 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 10,111'</p> <p>Perforated intervals 1 10,080'/10,082'--10,020'/10,022'---9,960'/9.962'- -9,900'/9.902'--9,843'/9.845, w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 15 bpm/ 4,827 psi. Line speed 300 ft/min.</p> <p>Pumped: 137 bbls</p> <p>FTR - 159,718 bbls</p>
10/12/2013 14:30	10/13/2013 00:00	9.5	COMPL	Other operations	OTHR	WSI Pending ops on 6H & 8H.
10/13/2013 00:00	10/13/2013 02:15	2.25	COMPL	Frac	STIM	<p>FRAC STG # 19 of 26: Tested stack to 9500 psi. PPS frac'd perms per schedule w/ 20 bbls 15% HCL, 39,453 lbs 100/Mesh sand, 313,824 lbs 30/50 sand, &amp; 8,300 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 3,966 psi Acid on form @ 40 bpm @ 4,967 psi. Acid cleared @ 60 bpm @ 5,636 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 2.25 ppg. Flushed well with 301 bbls. Ending rate 80 bpm @ 5,310 psi. 100% SIF.</p> <p>Avg rate: 78 bpm Avg psi: 5,347 psi Max rate: 80 bpm Max psi: 5,791 psi</p> <p>Pad ISIP: 2,979 psi FG: .82 psi/ft ISIP: 2,232 psi FG: .723 psi/ft</p> <p>LTR= 8,300 bbls FTR= 168,018 bbls SIF= 353,277 lbs. TSIF= 6,302,490 lbs.</p>



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/13/2013 02:15	10/13/2013 04:30	2.25	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU Ark Lat Tex WL for Stage # 20 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 9,811' Perforated intervals 9,780'/9,782'--9,720'/9,722'--9,660'/9,662--9,600'/9,602'--- 9,540'/9,542' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 18 bpm/ 4,130 psi. Line speed 300 ft/min.  Pumped: 117 bbls  FTR - 168,135 bbls
10/13/2013 04:30	10/13/2013 06:00	1.5	COMPL	Other operations	OTHR	Waiting for Frac Ops # 6 & # 8

Report #: 28 Daily Operation: 10/13/2013 06:00 - 10/14/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027769
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Days From Spud (days) 70	Days on Location (days) 28	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet
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Operations Summary  
Waiting on 30/50 sand.  
Frac Stage # 20 thru 21  
Plug & Perf Stg. # 21 thru 22

Remarks  
PPS Downtime: 2 hrs Cum Downtime 17.75 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs  
Waiting on sand Downtime: 2 hrs. Cum 2 hrs.

FTR - 186,815 bbls  
RT - 0  
CR - 0  
FTR= 186,815 bbls TSIF= 7,003,138 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/13/2013 06:00	10/13/2013 08:15	2.25	UNPLANNED	OTHER	U_WOP	Decided to frac stage #20 instead of fracing on stage #19 on #8H, Do to the fact that we did not have enough 40/70 sand. while waiting Waiting on 1 load of 30/50 sand. Phoned and informed engineer of sand issues.
10/13/2013 08:15	10/13/2013 10:15	2	UNPLANNED	OTHER	U_PEPX D	Removed sand from around Blinder and Belt area.
10/13/2013 10:15	10/13/2013 12:30	2.25	COMPL	Frac	STIM	FRAC STG # 20 of 25: Tested stack to 9265 psi. PPS frac'd perms per schedule w/ 20 bbls 15% HCL, 36,674 lbs 100/Mesh sand, 314,167 lbs 30/50 sand, & 8,300 bbls slick water down 5.5" csg.  Formation broke @ 20 bpm @ 3,911 psi Acid on form @ 40 bpm @ 6,410 psi. Acid cleared @ 60 bpm @ 5,139 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 2.25 ppg. Flushed well with 322 bbls. Ending rate 80 bpm @ 5,091 psi. 100% SIF.  Avg rate: 77 bpm Avg psi: 5,279 psi Max rate: 80 bpm Max psi: 6,173 psi  Pad ISIP: 2984 psi ISIP: 2230 psi FG: .72 psi/ft  LTR= 8,295 bbls FTR= 176,430 bbls SIF= 350,841 lbs. TSIF= 6,653,331 lbs

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/13/2013 12:30	10/13/2013 14:00	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU Ark Lat Tex WL for Stage # 21 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 9,511' Perforated intervals 9,480'/9,482'--9,420'/9,422'--9,360'/9,365'--9,300'/9,302'--- 9,240'/9,243', w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 15 bpm/ 3700 psi. Line speed 300 ft/min.  Pumped: 100 bbls  FTR - 176,530 bbls
10/13/2013 14:00	10/13/2013 22:45	8.75	COMPL	Other operations	OTHR	WO frac ops on 6&8H
10/13/2013 22:45	10/14/2013 04:00	5.25	COMPL	Frac	STIM	FRAC STG # 21 of 25: Tested stack to 9265 psi. PPS frac'd perfs per schedule w/ 20 bbls 15% HCL, 36,306 lbs 100/Mesh sand, 313,501 lbs 30/50 sand, & 10,201 bbls slick water down 5.5" csg.  Formation broke @ 20 bpm @ 4300 psi Acid on form @ 40 bpm @ 5399 psi. Acid cleared @ 60 bpm @ 6397 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 1.75 ppg. Washed out Chicksan on Pump iron. S/D. Flush with RSI pump down trucks @ 19 BPM. 377 BBLs. Replace Chicksan. Pressure tested iron. Pump 5000# slug of 1.0 ppg 30-50. Good. Continue ramp from 1.50 ppg to 2.25 ppg. Flushed well with 290 bbls. Ending rate 80 bpm @ 5,280 psi. 100% SIF.  Avg rate: 78 bpm Avg psi: 5,665 psi Max rate: 80 bpm Max psi: 5,997 psi  Pad ISIP: 2535 psi ISIP: 2,535 psi FG: .763 psi/ft  LTR= 10,201 bbls FTR= 186,731 bbls  SIF= 349,807 lbs. TSIF= 7,003,138 lbs
10/14/2013 04:00	10/14/2013 06:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU Ark Lat Tex WL for Stage # 22 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 9,211'. Perforated intervals 9,180'/9,182'--9,120'/9,122'--9,060'/9,062'--9,000'/9,002'--- 8,940'/8,943', w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns & setting tool. RD WL . Pump down @ 18 bpm/ 4,400 psi. Line speed 300 ft/min.  Pumped: 84 bbls  FTR - 186,815 bbls

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 29 Daily Operation: 10/14/2013 06:00 - 10/15/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
71	29	15,556.5	-26.5		BAT PPS Frac Fleet, BAT PPS Frac Fleet	

Operations Summary  
Frac Stage #22  
Swap out Pump Iron

Remarks  
PPS Downtime: 17.5 hrs Cum Downtime 35.25 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs  
Waiting on sand Downtime: 2 hrs. Cum 2 hrs.

FTR - 190,129 bbls  
RT - 0  
CR - 0  
LTR= 190,129 bbls TSIF= 7,102,546 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/14/2013 06:00	10/14/2013 12:00	6	COMPL	Other operations	OTHR	WO frac ops on 6&8H
10/14/2013 12:00	10/14/2013 13:30	1.5	COMPL	Frac	STIM	FRAC STG # 22 of 25: Tested stack to 9265 psi. PPS frac'd perms per schedule w/ 24 bbls 15% HCL, 38,408 lbs 100/Mesh sand, 61,000 lbs 30/50 sand, & bbls slick water down 5.5" csg.  Formation broke @ 20 bpm @ 4602 psi Acid on form @ 40 bpm @ 5846 psi. Acid cleared @ 60 bpm @ 4602 psi.  Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppg to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg - 1.0 ppg when a chicken washed out on priority side, cut sand on 1.0 ppg with 100 k lbs into it. dropped rate to 40 bpm and called shutdown when 4in line parted.
10/14/2013 13:30	10/15/2013 06:00	16.5	MOBILIZATION	MIRU	MIRU	Rigging down parted iron and the rest of the 1002 4in iron and having it replaced with 1502 4in iron from the Missile to priority's zipper manifold.

Report #: 30 Daily Operation: 10/15/2013 06:00 - 10/16/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
72	30	15,556.5	-26.5		BAT PPS Frac Fleet, BAT PPS Frac Fleet	

Operations Summary  
Frac Stage 22  
WL Stage 23

Started Stage 22 over w/ a full pad volume followed by (30/50) sand.

Remarks  
PPS Downtime: 17.5 hrs Cum Downtime 35.25 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs  
Waiting on sand Downtime: 2 hrs. Cum 2 hrs.

FTR - 195,797 bbls  
RT - 0  
CR - 0  
LTR= 195,797 bbls TSIF= 7,402,452 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/15/2013 06:00	10/15/2013 06:30	0.5	PROD1	SHARE	SFTY	Held safety meeting
10/15/2013 06:30	10/15/2013 09:30	3	PROD1-TEST	TEST LINES	TEST LINES	Priming up and testing lines. Pop-off failed test. Replaced with new.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/15/2013 09:30	10/15/2013 11:30	2	COMPL	Frac	STIM	<p>FRAC STG # 22 of 25: Tested stack to 9265 psi. PPS frac'd perms per schedule w/ 24 bbls 15% HCL, 38,408 lbs 100/Mesh sand, 61,000 lbs 30/50 sand, &amp; bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4602 psi Acid on form @ 40 bpm @ 5846 psi. Acid cleared @ 60 bpm @ 4602 psi.</p> <p>Pad ISIP:2901 psi</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100/Mesh sand from 0.5 ppa to 1.0 ppg. Ramped 30/50 sand from 0.5 ppg – 1.0 ppg when a chickens washed out on priority side, cut sand on 1.0 ppa with 100 k lbs into it. dropped rate to 40 bpm and called shutdown when 4in line parted.</p> <p>(CONTINUED FRAC) The info above was the first part of the frac reported on 10/15/13</p> <p>Increased rate to 80 bpm. Pumped 859 bbl pad. Ramped 30/50 sand from 0.5 ppg – 2.25 ppg. Flushed well with 288 bbls. Ending rate 80 bpm @ 5,091 psi. .85% SIF.</p> <p>Avg rate: 80 bpm Avg psi: 5686 psi Max rate: 80 bpm Max psi: 5686 psi</p> <p>ISIP: 2141 psi FG: .71 psi/ft</p> <p>LTR= 8907 bbls FTR= 195,051 bbls SIF=299,906 lbs. TSIF= 7,402,452 lbs</p> <p>NOTE: Had to cut sand @ the beginning of 2.25 ppa due to hyd on blender overheating. Flushed well and pumped 85 % SIF</p>
10/15/2013 11:30	10/15/2013 13:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Ark Lat Tex WL for Stage # 23 of 25. RIH &amp; pump down Baker CFP &amp; 5 each 3.375" guns. Set CFP @ 8,911'.</p> <p>Perforated intervals 8,880'/8,883' - 8,820'/8,823' - 8,760'/8,763' - 8,700'/8,703' - 8,640'/8,643" w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH w/ wireline, guns &amp; setting tool. RD WL . Pump down @ 15 bpm/ 4555 psi. Line speed 300 ft/min.</p> <p>Pumped: 75 bbls</p> <p>FTR - 195,797 bbls</p>
10/15/2013 13:30	10/16/2013 06:00	16.5	PROD1	OTHER	WSI	WSI Pending ops on 6H & 8H.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 31 Daily Operation: 10/16/2013 06:00 - 10/17/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 73	Days on Location (days) 31	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet

### Operations Summary

Frac Stages 23 thru 24  
WI Stages 24 thru 25

Currently waiting on Frac Ops on #6H & #8H @ report time

### Remarks

PPS Downtime: 4.75 hrs Cum Downtime 40.00 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs  
Waiting on sand Downtime: 0 hrs. Cum 2 hrs.

FTR - 213,593 bbls

RT - 0

CR - 0

LTR= 213,593 bbls TSIF= 8,107,792 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/16/2013 06:00	10/16/2013 10:15	4.25	COMPL	Other operations	OTHR	Waited on Frac Ops on #6H and 8H. Down time working on LA pumps and Blender. Pressure test lines to 9000 psi.
10/16/2013 10:15	10/16/2013 14:00	3.75	COMPL	Frac	STIM	<p>Frac Stage # 23 of 25. Test stack to 8,500 PSI , Frac perfs as proposed W/ 20 bbls. 15% HCL 37,967 # 100 Mesh /313,217 #30/50 Brady/ 9330 BBLS Slickwater, down 5.5' CSG</p> <p>Formation broke @ 20 BPM/ 4886 PSI Acid on form @ 30 BPM/ 6782 PSI Acid cleared @ 60 BPM/ 5548 PSI</p> <p>Pad ISIP: 2884 PSI FG:.80</p> <p>Avg rate: 79 BPM Avg PSI: 5406 Max rate: 80.0 BPM Max PSI: 6419</p> <p>ISIP: 1984 PSI FG .69</p> <p>FTR: 9330 BBLS LTR Total: 205127 BBLS SIF: 351,184 # Total SIF:7,753,636 #</p> <p>Note:Had down time due FR pump. Had to go thru pump and hoses 2 times. Pumped extra water on pad lining out FR before starting sand. Down 4.75 hrs. Pressure climbing in 2# and continued on 2# thru end of job.</p>
10/16/2013 14:00	10/16/2013 15:30	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Arklatex WL for stage #24 of 25. RIH &amp; pumped down w/Baker CFP &amp; 5 – 3-1/8" guns, set CFP @ 8,611' Perforated Intervals: 8,582-8,580 / 8,522-8,520 / 8,462-8,460 / 8,402-8,400 / 8,342-8,340 w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL</p> <p>Pump Down @ 12 bpm / 3600 psi. Line Speed 215 ft/min</p> <p>Used 70 bbls LTR Total 205197 Bbls</p>
10/16/2013 15:30	10/17/2013 00:30	9	COMPL	Other operations	OTHR	WSI Pending ops on 6H & 8H.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/17/2013 00:30	10/17/2013 02:30	2	COMPL	Frac	STIM	Frac Stage # 24 of 27. Test stack to 8,500 PSI , Frac perms as proposed W/ 24 bbls. 15% HCL 34,451 # 100 Mesh / 319,075# 30/50 Brady/8349 BBLS Slickwater, down 5.5' CSG  Formation broke @ 20 BPM/ 5160 PSI Acid on form @ 30 BPM/ 5160 PSI Acid cleared @ 60 BPM/ 7240 PSI  Pad ISIP: 2987 PSI  Avg rate: 79.4 BPM Avg PSI: 5506 Max rate: 80.0 BPM Max PSI: 6915  ISIP: 2201 PSI FG .72  FTR: 8349 BBLS LTR Total:213,546 BBLS SIF: 354,156 # Total SIF: 8,107,792 #
10/17/2013 02:30	10/17/2013 04:00	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU E&P WL for stage #25 of 25. RIH & pumped down w/Baker CFP & 5 – 3-1/8" guns, set CFP @ 8,311' Perforated Intervals: 8,280/8,282' - 8,220/8,222' - 8,160/8,162' - 8,100/8,102' - 8,040/8,042' w/ 60 deg phased, 19 gram charge, 0.42" EHD perf guns. 40 holes total. POOH, RD WL.  Pump Down @18 bpm / 4600 psi. Line Speed 300 ft/min  Used 47 bbls LTR Total 213,593 Bbls
10/17/2013 04:00	10/17/2013 06:00	2	COMPL	Other operations	OTHR	WSI Pending ops on 6H & 8H.

### Report #: 32 Daily Operation: 10/17/2013 06:00 - 10/18/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 74	Days on Location (days) 32	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig BAT PPS Frac Fleet, BAT PPS Frac Fleet	

#### Operations Summary

Frac Stages 25

Job complete!

Set kill plug at 7630'

Waiting on frac ops to be completed on #6H & #8H Wells before MIRU workover rig for Drill out @ report time.

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 40.00 hrs

Priority Downtime: 0 hrs

ArkLaTex Wireline Downtime: 0 hrs

Waiting on sand Downtime: 0 hrs. Cum 2 hrs.

FTR - 221,559 bbls

RT - 0

CR - 0

LTR= 221,559 bbls

TSIF=8,455,420 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/17/2013 06:00	10/17/2013 22:30	16.5	COMPL	Other operations	OTHR	WSI Pending ops on 6H & 8H.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/17/2013 22:30	10/18/2013 00:30	2	COMPL	Frac	STIM	Frac Stage # 25 of 25. Test stack to 8,500 PSI , Frac perms as proposed W/ 31 bbls. 15% HCL 31,822 # 100 Mesh / 315,806 # 30/50 Brady/7,966 BBLS Slickwater, down 5.5' CSG  Formation broke @ 20 BPM/ 4287 PSI Acid on form @ 30 BPM/ 3214 PSI Acid cleared @ 60 BPM/ 6744 PSI  Pad ISIP: 3162 PSI  Avg rate: BPM Avg PSI: 5316 Max rate: 80.0 BPM Max PSI: 7186  ISIP: 2279 PSI FG .73  FTR: 7966 BBLS LTR Total:221,559 BBLS SIF: 347,628 # Total SIF: 8,455,420 #
10/18/2013 00:30	10/18/2013 02:00	1.5	COMPL	Other operations	OTHR	Picked up and ran 5.5" Comp. bridge plug to 7630' & set with 2120psi under plug / blowed well down ( plug holding )
10/18/2013 02:00	10/18/2013 06:00	4	COMPL	Other operations	OTHR	Waiting on frac ops to be completed on #6H & #8H Wells before MIRU workover rig for Drill out @ report time.

### Report #: 33 Daily Operation: 10/18/2013 06:00 - 10/19/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
75	33	15,556.5	-26.5			

#### Operations Summary

Frac operation completed, waiting on frac ops on the 6H and 8H.

#### Remarks

PPS Downtime: 0 hrs Cum Downtime 40.00 hrs  
Priority Downtime: 0 hrs  
ArkLaTex Wireline Downtime: 0 hrs  
Waiting on sand Downtime: 0 hrs. Cum 2 hrs.

FTR - 221,559 bbls

RT - 0

CR - 0

LTR= 221,559 bbls

TSIF=8,455,420 lbs

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/18/2013 06:00	10/18/2013 14:00	8	COMPL	Other operations	OTHR	Well shut in waiting on frac ops to be completed on the 6H and 8H.
10/18/2013 14:00	10/19/2013 06:00	16	COMPL	Other operations	OTHR	WSI,Awaiting on Drill Out Ops

### Report #: 34 Daily Operation: 10/19/2013 06:00 - 10/20/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
76	33	15,556.5	-26.5			

#### Operations Summary

WSI, Awaiting Drill Out Ops on #6H

#### Remarks

No accidents or Incidents Reported.

### Time Log Summary

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

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

<b>Report #: 35 Daily Operation: 10/20/2013 06:00 - 10/21/2013 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 77	Days on Location (days) 34	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	
Operations Summary WSI, Awaiting Drill Out Ops on #6H						
Remarks No accidents or Incidents Reported.						
<b>Time Log Summary</b>						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/20/2013 06:00	10/21/2013 06:00	24	COMPL	Other operations	OTHR	WSI,Awaiting Drill Out Ops on #6H
<b>Report #: 36 Daily Operation: 10/21/2013 06:00 - 10/22/2013 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 78	Days on Location (days) 35	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	
Operations Summary WSI, Awaiting Drill Out Ops on #6H						
Remarks No accidents or Incidents Reported.						
<b>Time Log Summary</b>						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/21/2013 06:00	10/22/2013 06:00	24	COMPL	Other operations	OTHR	WSI,Awaiting Drill Out Ops on #6H
<b>Report #: 37 Daily Operation: 10/22/2013 06:00 - 10/23/2013 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 79	Days on Location (days) 36	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	
Operations Summary WSI, Awaiting Drill Out Ops on #6H						
Remarks No accidents or Incidents Reported.						
<b>Time Log Summary</b>						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/22/2013 06:00	10/23/2013 06:00	24	COMPL	Other operations	OTHR	WSI,Awaiting Drill Out Ops on #6H and #7H
<b>Report #: 38 Daily Operation: 10/23/2013 06:00 - 10/24/2013 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 80	Days on Location (days) 37	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	
Operations Summary WSI, Awaiting Drill Out Ops on #6H						
Remarks No accidents or Incidents Reported.						
<b>Time Log Summary</b>						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/23/2013 06:00	10/24/2013 06:00	24	COMPL	Other operations	OTHR	WSI,Awaiting Drill Out Ops on #6H and #7H
<b>Report #: 39 Daily Operation: 10/24/2013 06:00 - 10/25/2013 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 81	Days on Location (days) 38	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	
Operations Summary WSI, Awaiting Drill Out Ops on #6H						
Remarks No accidents or Incidents Reported.						
<b>Time Log Summary</b>						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/24/2013 06:00	10/25/2013 06:00	24	COMPL	Other operations	OTHR	WSI,Awaiting Drill Out Ops on #6H and #7H

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Report #: 40 Daily Operation: 10/25/2013 06:00 - 10/26/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 82	Days on Location (days) 39	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

Operations Summary  
WSI, Awaiting Drill Out Ops on #6H

Remarks  
No accidents or Incidents Reported.

#### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/25/2013 06:00	10/26/2013 06:00	24	COMPL	Other operations	OTHR	WSI,Awaiting Drill Out Ops on #6H

### Report #: 41 Daily Operation: 10/26/2013 06:00 - 10/27/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 83	Days on Location (days) 40	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

Operations Summary  
WSI, Awaiting Drill Out Ops on #6H

Remarks  
No accidents or Incidents Reported.

#### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/26/2013 06:00	10/27/2013 06:00	24	COMPL	Other operations	OTHR	Well shut in waiting on drill out ops on 6H

### Report #: 42 Daily Operation: 10/27/2013 06:00 - 10/28/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 84	Days on Location (days) 41	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

Operations Summary  
WSI, Awaiting Drill Out Ops on #6H

Remarks  
No accidents or Incidents Reported.

#### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/27/2013 06:00	10/28/2013 06:00	24	COMPL	Other operations	OTHR	Well shut in waiting on drill out ops on 6H

### Report #: 43 Daily Operation: 10/28/2013 06:00 - 10/29/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 85	Days on Location (days) 42	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

Operations Summary  
WSI, Awaiting Drill Out Ops on #6H

Remarks  
No accidents or Incidents Reported.

#### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/28/2013 06:00	10/29/2013 06:00	24	COMPL	Other operations	OTHR	Well shut in waiting on drillout ops on 6H

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 44 Daily Operation: 10/29/2013 06:00 - 10/30/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 86	Days on Location (days) 43	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig C.A.T.S Work over rig, 1	

### Operations Summary

MIRU C.A.T.S Workover Rig

SICP:700 psi. Bled well down and satarted RIH w/4 3/4 JZ HA-4G bit, float subs and 2 3/8" workstring.

### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 0.0 Cum hrs

RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs

Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date:

FTR -221,559 bbls

RT - 0 bbls

CR - 0 bbls

LTR -221,559 bbls

JZ Bit- 4 3/4

Type -HA-4G

S/N- 1319985

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/29/2013 06:00	10/29/2013 17:00	11	COMPL	Other operations	OTHR	Well Shut in awaiting drill-out ops
10/29/2013 17:00	10/30/2013 02:00	9	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Begin MIRU on #7H, walking rig from #6H to #7H. Flange up snub/BOP stack on frac valve. Continue rigging up Rig and equipment. Change out slips and dyes to 2 3/8", function test BOP's, pressure test BOP's and line to 4500 psi.
10/30/2013 02:00	10/30/2013 06:00	4	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	SICP:700 psi. Bled well down and satarted RIH w/4 3/4 JZ HA-4G bit, float subs and 2 3/8" workstring.

Report #: 45 Daily Operation: 10/30/2013 06:00 - 10/31/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 87	Days on Location (days) 44	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig C.A.T.S Work over rig, 1	

### Operations Summary

RIH with Tbg

Milled out CFP 25,24,23,22

### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 0.0 Cum hrs

RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs

Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date:

FTR -221,559 bbls

RT - 23 bbls

CR - 23 bbls

LTR -221,536 bbls

JZ Bit- 4 3/4

Type -HA-4G

S/N- 1319985

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/30/2013 06:00	10/30/2013 16:30	10.5	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	RIH with Tbg, Tag Kill plug @ 7623', 246 jts in hole. Prepare to start drilling plugs. Load Tbg and break circulation
10/30/2013 16:30	10/30/2013 22:30	6	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Drill plug #25 @ 7623'. Drill time 9 min. Pump rate 3. BPM / 1700 PSI. Return rate 3.5 BPM / 1200 PSI. Pump sweep, RIH with 2 jts circulate hole clean.
10/30/2013 22:30	10/30/2013 23:45	1.25	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #24. Tag @ 8,276'. Drill time 45 minutes. 3 BPM in @ 2,000 psi / 3.4 BPM out @ 1,600 psi. Pump 10 bbl sweep. Circ btms up.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/30/2013 23:45	10/31/2013 01:45	2	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #23. Tag @ 8,625'. Drill time 5 minutes. 3 BPM in @ 1,700 psi / 3.4 BPM out @ 1,400 psi. Pump 10 bbl sweep. Circ btms up.
10/31/2013 01:45	10/31/2013 03:45	2	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #22. Tag @ 8,895'. Drill time 8 minutes. 3 BPM in @ 1,500 psi / 3.4 BPM out @ 1,400 psi. Pump 10 bbl sweep. Circ btms up.
10/31/2013 03:45	10/31/2013 06:00	2.25	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Washing down to CFP #21 @ report time.

Report #: 46 Daily Operation: 10/31/2013 06:00 - 11/1/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
88	45	15,556.5	-26.5		C.A.T.S Work over rig, 1		

### Operations Summary

Mill Plugs#21,20,19,18,17,16,& drilling plug 15 @ report time.

### Remarks

C.A.T.S : Downtime: 4.5 hrs/ 4.5 Cum hrs  
RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs  
Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 0

FTR -221,906 bbls  
RT - 0 bbls  
CR - 23 bbls  
LTR -221,883 bbls

JZ Bit- 4 3/4  
Type -HA-4G  
S/N- 1319985

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/31/2013 06:00	10/31/2013 09:45	3.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Plug Catcher plugged off. Go through panic line and clean out plug catcher. Circulate well between Plug # 22 and # 21 to clear sweeps and clear sand. Pumping 3 bpm at 1,200 psi and returning 3 bpm at 250 psi. Annulus pressure continueing to rise.
10/31/2013 09:45	10/31/2013 11:45	2	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #21. Tag @ 9,212'. Drill time 10 minutes. 3 BPM in @ 1,500 psi / 3.4 BPM out @ 800 psi. Pump 10 bbl sweep. Circ btms up.
10/31/2013 11:45	10/31/2013 14:45	3	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #20. Tag @ 9,497'. Drill time 22 minutes. 3.25 BPM in @ 1,700 psi / 3.3 BPM out @ 800 psi. Pump 10 bbl sweep. Circ btms up.
10/31/2013 14:45	10/31/2013 17:15	2.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #19. Tag @ 9,803'. Drill time 18 minutes. 3.50 BPM in @ 1,800 psi / 3.4 BPM out @ 750 psi. Pump 10 bbl sweep. Circ btms up.
10/31/2013 17:15	10/31/2013 18:15	1	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #18. Tag @ 10,090'. Drill time 12 minutes. 3.50 BPM in @ 1,700 psi / 3.4 BPM out @ 725 psi. Pump 10 bbl sweep. Circ btms up.
10/31/2013 18:15	10/31/2013 21:15	3	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #17. Tag @ 10,390'. Drill time 11 minutes. 3.50 BPM in @ 1,500 psi / 3.2 BPM out @ 700 psi. Pump 10 bbl sweep. Circ btms up.
10/31/2013 21:15	10/31/2013 23:45	2.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #16. Tag @ 10,688'. Drill time 17 minutes. 3.50 BPM in @ 1,500 psi / 3.0 BPM out @ 700 psi. Pump 10 bbl sweep. Circ btms up. Have a leak on swivel-top drive. Rig up TIW and circulate while doing repair.
10/31/2013 23:45	11/1/2013 04:45	5	COMPL	Other operations	OTHR	Repair leak on swivel. Circulate thru TIW while rig crew does repairs. RU to swivel. Resume operations. Picked up 1 jt and when catwalk was returning down, 3 jts rolled into the path of the returning catwalk due to a missing pin. 3 jts of tubing were stuck under catwalk and were bent. Removed the 3 jts, Checked damage to catwalk. Two braces are broken but they do not effect the use of catwalk. Resume operation.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/1/2013 04:45	11/1/2013 06:00	1.25	COMPL	Tbg related operations	TUBING	Wash to CFP #15. Tag @ 11,024' on jt# 355. Drill plug @ report time.

Report #: 47 Daily Operation: 11/1/2013 06:00 - 11/2/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 89	Days on Location (days) 46	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig C.A.T.S Work over rig, 1	

#### Operations Summary

Mill Plugs #15,14,13, 12, 11, 10, 9,

#### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 4.5 Cum hrs  
RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs  
Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 0

FTR: 221,906 bbls  
RT: 339 bbls  
CR: 362 bbls  
LTR : 221,544 bbls

JZ Bit- 4 3/4  
Type -HA-4G  
S/N- 1319985

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/1/2013 06:00	11/1/2013 07:45	1.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Drilling CFP #15. Drill time 12 minutes.3 BPM in @ 1,900 psi / 3.5 BPM out @ 600 psi. Pump 10 bbl sweep. Circ btms up.
11/1/2013 07:45	11/1/2013 10:00	2.25	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Pipe getting sticky,& pump psi @ 2,500 psi & slowly rising,sent 2 additional 10 bbl sweeps to clean up wellbore.
11/1/2013 10:00	11/1/2013 13:45	3.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #14. Tag @ 11,287'. Drill time 35 minutes. 3 BPM in @ 1,500 psi / 3.2 BPM out @ 700 psi. Pump 10 bbl sweep. Circ btms up.
11/1/2013 13:45	11/1/2013 16:30	2.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #13. Tag @ 11,578'. Drill time 12 minutes. 3 BPM in @ 1,700 psi / 3.4 BPM out @ 700 psi. Pump 10 bbl sweep. Circ btms up.
11/1/2013 16:30	11/1/2013 18:15	1.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #12. Tag @ 11,923'. Drill time 30 minutes. 3 BPM in @ 1,700 psi / 3.3 BPM out @ 700 psi. Pump 10 bbl sweep. Circ btms up.
11/1/2013 18:15	11/1/2013 20:45	2.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #11. Tag @ 12,183'. Drill time 5 minutes. 3.5 BPM in @ 1,500 psi / 3.5 BPM out @ 475 psi. Pump 10 bbl sweep. Circ btms up.
11/1/2013 20:45	11/2/2013 00:15	3.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #10. Tag @ 12,490'. Drill time 15 minutes. 3.5 BPM in @ 1,300 psi / 3.5 BPM out @ 475 psi. Pump 10 bbl sweep. Circ btms up.
11/2/2013 00:15	11/2/2013 02:15	2	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #9. Tag @ 12,787'. Drill time 10 minutes. 3.0 BPM in @ 1,500 psi / 3.3 BPM out @ 320 psi. Pump 10 bbl sweep. Circ btms up.
11/2/2013 02:15	11/2/2013 06:00	3.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #8. Tag @ 13,080'. Picked up off plug. Rig up TIW to circulate heavy sand while repairing leak on top drive.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 48 Daily Operation: 11/2/2013 06:00 - 11/3/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 90	Days on Location (days) 47	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig C.A.T.S Work over rig, 1

Operations Summary

Mill Plugs #8,7,6, & 5.

Remarks

C.A.T.S : Downtime: 16.0 hrs/ 20.5 Cum hrs

RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs

Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 1

FTR: 221,906 bbls

RT: 339 bbls

CR: 701 bbls

LTR : 221,205 bbls

JZ Bit- 4 3/4

Type -HA-4G

S/N- 1319985

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/2/2013 06:00	11/2/2013 22:00	16	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Circulate hole while waiting on packing for swivel. Packing for swivel arrived at 10:00. Had to wait on wash pipe coming from Dallas. Wash pipe arrived @ 22:00.
11/2/2013 22:00	11/3/2013 00:00	2	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Tag CFP #8 @ 13,080'. Drill time 17 minutes. 3 BPM in @ 1,700 psi / 3.2 BPM out @ 300 psi. Pump 10 bbl sweep. Circ btms up.
11/3/2013 00:00	11/3/2013 03:00	3	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP #7. No indication of tagging plug. Continue to plug #6. Wash to CFP #6. Tag @ 13,666'. Drill time 34 minutes. 3 BPM in @ 1,700 psi / 3.2 BPM out @ 275 psi. Pump 10 bbl sweep. Very heavy sand in returns. Pump another 10 bbl sweep.
11/3/2013 03:00	11/3/2013 05:30	2.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	1 hour adjustment for daylight savings time.
11/3/2013 05:30	11/3/2013 07:00	1.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash heavy sand down to CFP #5. Never tagged plug. Washed heavy sand down to 14,141' on jt# 456(4jts passed where plug should have been). Pick up & circulate hole clean w bio-water & polymer sweeps. Pumping 3 bpm @ 1,250 psi w/ 3.1 bpm @ 300 psi in returns.

Report #: 49 Daily Operation: 11/3/2013 06:00 - 11/4/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 91	Days on Location (days) 48	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig C.A.T.S Work over rig, 1

Operations Summary

Washed through Plug # 5 no indication. Mill Plugs # 4,3,2,1 & washed to pbtd. Circ clean & pooh ld ws.

Remarks

C.A.T.S : Downtime: 0.0 hrs/ 20.5 Cum hrs

RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs

Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 1

FTR: 221,906 bbls

RT: 0 bbls

CR: 779 bbls

LTR : 221,127 bbls

JZ Bit- 4 3/4

Type -HA-4G

S/N- 1319985

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/3/2013 06:00	11/3/2013 10:45	4.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash heavy sand down to CFP #4. tagged plug at 14,515' on jt# 468(4jts passed where plug should have been).Drill plug in 12 mins. Circulate hole clean w bio-water & 2 polymer sweeps separated by 50 bbls. Pumping 3 bpm @ 1,250 psi w/ 3.1 bpm @ 300 psi in returns.
11/3/2013 10:45	11/3/2013 15:15	4.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Tag CFP #3 @ 14,574'. Drill time 45 minutes. 3 BPM in @ 1,700 psi / 3.2 BPM out @ 200 psi. Pump 10 bbl sweep. Circ btms up.
11/3/2013 15:15	11/3/2013 18:00	2.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Tag CFP #2 @ 14,915'. Drill time 13 minutes. 3 BPM in @ 1,200 psi / 3.2 BPM out @ 350 psi. Pump 10 bbl sweep. Circ btms up.
11/3/2013 18:00	11/3/2013 21:00	3	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash down and tag CFP #1 @ 15,199'. Drill time 26 minutes. 3 BPM in @ 1,200 psi / 3.2 BPM out @ 375 psi. Pump 10 bbl sweep. Circ btms up.
11/3/2013 21:00	11/4/2013 02:00	5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash down to PBTD @ 15,492' on jt # 500. Circulate hole clean w/ bio-water & polymer sweeps X 2. Prepare to lay down tubing. 3.0 bpm @1,240 psi in--3.1 bpm @300 psi out.
11/4/2013 02:00	11/4/2013 04:00	2	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	POOH LD 22 jts 2-7/8" 7.9# PH6. Last 5 jts began to drag. Pulling 20-30k lb over string weight. Brought jt #478 back down, Ru swivel & begin pumping. EOT @ 15,133'.
11/4/2013 04:00	11/4/2013 06:00	2	SURF-CIRC	CIRCULATE	CIRC	Circulate polymer sweep w/ bio-water 3 bpm @ 1,550 psi w/ 3.5 bpm @ 300 psi in returns. Working pipe up & down while circulating.

Report #: 50 Daily Operation: 11/4/2013 06:00 - 11/5/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 92	Days on Location (days) 49	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig C.A.T.S Work over rig, 1	

### Operations Summary

POOH LD Workstring

### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 20.5 Cum hrs  
RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs  
Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls  
RT: 0 bbls  
CR: 779 bbls  
LTR : 221,127 bbls

JZ Bit- 4 3/4  
Type -HA-4G  
S/N- 1319985

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/4/2013 06:00	11/4/2013 15:00	9	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	POOH LD WS,Layed down all 2 7/8",bag was leaking on annular when we started pulling 2 3/8" tubing.
11/4/2013 15:00	11/4/2013 17:00	2	COMPL	Other operations	OTHR	Change out bag on annular
11/4/2013 17:00	11/5/2013 03:00	10	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	POOH LD 2 3/8" WS
11/5/2013 03:00	11/5/2013 06:00	3	COMPL	Wireline operations to set packer	WLPK	MIRU WL- Run Gauge ring & Junk basket.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 51 Daily Operation: 11/5/2013 06:00 - 11/6/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 93	Days on Location (days) 50	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig C.A.T.S Work over rig, 1	

### Operations Summary

RU WL. Run gauge ring & junk basket.Four runs with GR/JB to clean hole. Set PCS packer @ 7740.

### Remarks

C.A.T.S : Downtime: 2.0 hrs/ 22.5 Cum hrs

RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs

Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls

RT: 0 bbls

CR: 779 bbls

LTR : 221,127 bbls

JZ Bit- 4 3/4

Type -HA-4G

S/N- 1319985

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/5/2013 06:00	11/5/2013 14:00	8	COMPL	Wireline operations to set packer	WLPK	RIH with 4.625' GR/JB to 7820'. POOH with WL. Junk basket had chunk rubber in it. Make JB/GR # 2 run. Sand in JB after 2nd run. Make run #3 with JB/GR. Sand in JB. Pump 200 BBL down casing, Make JB/GR # 4 run. Run # 4 clean. Make up and RIH with 5-1/2' ArrowSet 1X packer. Set packer @ 7740'. POOH with WL.
11/5/2013 14:00	11/5/2013 18:00	4	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	OOH with WL. RDMOL API Wireline. Rack and tally 2-7/8 production tubing. Prep to RIH.
11/5/2013 18:00	11/5/2013 19:30	1.5	COMPL	Tbg related operations	TUBING	RIH with 2 7/8" Production string with Gas Lift Valves.
11/5/2013 19:30	11/5/2013 21:30	2	COMPL	Tbg related operations	TUBING	Problems with power tongs. Downtime
11/5/2013 21:30	11/6/2013 06:00	8.5	COMPL	Tbg related operations	TUBING	Cont.to RIH with 195jts of 2 7/8" Production string with Gas Lift Valves.

Report #: 52 Daily Operation: 11/6/2013 06:00 - 11/7/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 94	Days on Location (days) 51	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig C.A.T.S Work over rig, 1	

### Operations Summary

Pick up & run tubing. Tag, space out & land tubing. rigging down C.A.T.S. unit

### Remarks

C.A.T.S : Downtime: 2.0 hrs/ 22.5 Cum hrs

RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs

Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls

RT: 0 bbls

CR: 779 bbls

LTR : 221,127 bbls

JZ Bit- 4 3/4

Type -HA-4G

S/N- 1319985

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/6/2013 06:00	11/6/2013 06:30	0.5	PROD1	SHARE	SFTY	Held Safety meeting
11/6/2013 06:30	11/6/2013 09:00	2.5	COMPL	Tbg related operations	TUBING	Finished running 246 jts of 2 7/8" tbg. and gas valves @ 7,738' ( tagged up ) latched onto & got off of packer.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/6/2013 09:00	11/6/2013 14:30	5.5	UNPLANNED	Waiting on anything other than weather (orders, eq	U_WT	Had to wait for tbg. hanger to be delivered to location from J&W wellhead's yard and T.I.W. valve from Platinum pipe.
11/6/2013 14:30	11/6/2013 15:00	0.5	COMPL	Tbg related operations	TUBING	Latched onto packer & landed tbg. with 17k on packer / string wt. was 45k before landing
11/6/2013 15:00	11/6/2013 18:00	3	MOBILIZATION	RDMO	RDMO	Rigging down the C.A.T.S. unit & started moving to 8H
11/6/2013 18:00	11/7/2013 06:00	12	COMPL	Other operations	OTHR	WSI

### Report #: 53 Daily Operation: 11/7/2013 06:00 - 11/8/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 95	Days on Location (days) 52	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

#### Operations Summary

WSI Pending drillout ops on 8H.  
ND Priority 10K Frac Stack lower half.  
NU 5K Production Tree.  
Tested void to 5000 psi.  
WSI, waiting on drillout ops on #8H.

#### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 22.5 Cum hrs  
RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs  
Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls  
RT: 0 bbls  
CR: 779 bbls  
LTR : 221,127 bbls.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/7/2013 06:00	11/7/2013 10:30	4.5	COMPL	Other operations	OTHR	WSI Pending drillout ops on 8H.
11/7/2013 10:30	11/7/2013 12:30	2	PROD1	SHARE	WLHEAD	Held JSA Safety Meeting. ND Priority 10K Frac Stack lower half. NU 5K Production Tree. Tested void to 5000 psi, good test. WSI, Pending drillout ops on #8H.
11/7/2013 12:30	11/8/2013 06:00	17.5	PROD1	OTHER	WSI	WSI Pending drillout ops on #8H.

### Report #: 54 Daily Operation: 11/8/2013 06:00 - 11/9/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days) 96	Days on Location (days) 53	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

#### Operations Summary

WSI Pending drillout ops on 8H.

#### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 22.5 Cum hrs  
RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs  
Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls  
RT: 0 bbls  
CR: 779 bbls  
LTR : 221,127 bbls.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/8/2013 06:00	11/9/2013 06:00	24	PROD1	OTHER	WSI	WSI Pending drillout ops on #8H.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Report #: 55 Daily Operation: 11/9/2013 06:00 - 11/10/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 97	Days on Location (days) 54	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

#### Operations Summary

WSI Pending drillout ops on 8H.

#### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 22.5 Cum hrs  
RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs  
Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls

RT: 0 bbls

CR: 779 bbls

LTR : 221,127 bbls.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/9/2013 06:00	11/10/2013 06:00	24	PROD1	OTHER	WSI	WSI Pending drillout ops on #8H.

### Report #: 56 Daily Operation: 11/10/2013 06:00 - 11/11/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 98	Days on Location (days) 55	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

#### Operations Summary

WSI Pending drillout ops on 8H.

#### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 22.5 Cum hrs  
RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs  
Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls

RT: 0 bbls

CR: 779 bbls

LTR : 221,127 bbls.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/10/2013 06:00	11/11/2013 06:00	24	COMPL	Other operations	OTHR	WSI

### Report #: 57 Daily Operation: 11/11/2013 06:00 - 11/12/2013 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 027769
Days From Spud (days) 99	Days on Location (days) 56	End Depth (ftGRD) 15,556.5	End Depth (TVD) (ftGRD) -26.5	Dens Last Mud (lb/gal)	Rig	

#### Operations Summary

WSI Pending drillout ops on 8H.

#### Remarks

C.A.T.S : Downtime: 0.0 hrs/ 22.5 Cum hrs  
RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs  
Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls

RT: 0 bbls

CR: 779 bbls

LTR : 221,127 bbls.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/11/2013 06:00	11/12/2013 06:00	24	PROD1	OTHER	WSI	Well Shut In

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Report #: 58 Daily Operation: 11/12/2013 06:00 - 11/13/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
100	57	15,556.5	-26.5			

Operations Summary

WSI Pending drillout ops on 8H.

Remarks

C.A.T.S : Downtime: 0.0 hrs/ 22.5 Cum hrs

RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs

Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls

RT: 0 bbls

CR: 779 bbls

LTR : 221,127 bbls.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/12/2013 06:00	11/13/2013 06:00	24	PROD1	OTHER	WSI	WSI

Report #: 59 Daily Operation: 11/13/2013 06:00 - 11/14/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027769
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
101	58	15,556.5	-26.5			

Operations Summary

Shear disk  
Turn well over to production

Remarks

C.A.T.S : Downtime: 0.0 hrs/ 22.5 Cum hrs

RPS : Downtime: 0.0 hrs/ 0.0 Cum hrs

Emerald: Downtime: 0.0 hrs/ 0.0 Cum hrs

Total # Roll-Off Boxes Used to Date: 2

FTR: 221,906 bbls

RT: 0 bbls

CR: 779 bbls

LTR : 221,127 bbls.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/13/2013 06:00	11/14/2013 06:00	24	COMPL	Other operations	OTHR	Shear disk @ 2300 PSI / 7 BBLS / 750 ISIP Turned well over to production.

WELL DETAILS

Well Name UNIVERSITY 10-1 7H			API/UWI 42-383-38371-0000		Operator PIONEER NATURAL RESRC USA, INC		
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Wellbore Hole Size

Section Des	Size (in)	Act Top (ftGRD)	Act Btm (ftGRD)	Start Date	End Date
Conductor	24	0.0	117.5	7/10/2013	7/10/2013
Surface	17 1/2	117.5	633.5	8/5/2013	8/5/2013
Intermediate	12 1/4	633.5	7,623.5	8/7/2013	8/12/2013
Production	8 1/2	7,623.5	15,556.5	8/15/2013	8/19/2013

Conductor Casing

Run Date 7/10/2013		Set Depth (ftGRD) 117.5			Centralizers			
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints	20	19.000	106.50	J-55	117.50	1	0.0	117.5

Surface Casing

Set Depth (ftGRD) 633.5		Run Date 8/6/2013			Centralizers 5			
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Cut off	13 3/8	12.715	48.00	J-55	19.10	1	0.0	19.1

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

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	569.27	14	19.1	588.4
Float Collar		13 3/8	12.715	48.00	J-55	1.50	1	588.4	589.9
Casing Joints		13 3/8	12.715	48.00	J-55	42.13	1	589.9	632.0
Float Shoe		13 3/8	12.715	48.00	J-55	1.50	1	632.0	633.5
Surface Casing Cement									
Type Casing		String Surface, 633.5ftGRD	Cementing Start Date 8/6/2013	Cementing End Date 8/6/2013	Cementing Company SCHLUMBERGER			Top (ftGRD) 0.0	Btm (ftGRD) 633.5
Class		Amount (sacks)		Yield (ft³/sack)			Density (lb/gal)		
							8.40		
Class Class C		688		1.71			13.60		
Class		Amount (sacks)		Yield (ft³/sack)			Density (lb/gal)		
							8.40		
Class C		135		1.33			14.80		
Intermediate Casing									
Set Depth (ftGRD) 7,618.5		Run Date 8/13/2013		Centralizers 43					
Item Des		OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Landing Joint		9 5/8	8.755	40.00	L-80	0.00	0	1.6	1.6
Casing Hanger		9 5/8	8.755	40.00	L-80	4.00	1	1.6	5.6
Ryte Wrap		9 5/8	8.755	40.00	L-80	2,795.64	60	5.6	2,801.2
Casing Joints		9 5/8	8.835	40.00	L-80	4,719.86	101	2,801.2	7,521.1
Float Collar		9 5/8	8.835	43.50	L-80	1.25	1	7,521.1	7,522.3
Casing Joints		9 5/8	8.835	43.50	L-80	46.66	1	7,522.3	7,569.0
Casing Joints		9 5/8	8.835	43.50	L-80	48.27	1	7,569.0	7,617.3
Shoe		9 5/8	8.835	43.50	L-80	1.25	1	7,617.3	7,618.5
Intermediate Casing Cement									
Type Casing		String Intermediate, 7,618.5ftGRD	Cementing Start Date 8/14/2013	Cementing End Date 8/14/2013	Cementing Company SCHLUMBERGER			Top (ftGRD) 0.0	Btm (ftGRD) 7,623.5
Class		Amount (sacks)		Yield (ft³/sack)			Density (lb/gal)		
							8.40		
Class TXI LITEWEIGHT		1,593		1.62			12.50		
Class Class H		185		1.07			16.40		
Class Oil Base Mud							9.60		
Production Casing									
Set Depth (ftGRD) 15,554.5		Run Date 8/21/2013		Centralizers					
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	0.00	0	0.0	0.0
Casing Cut Off		5 1/2	4.892	17.00	P-110	16.51	1	0.0	16.5
Casing Joints		5 1/2	4.892	17.00	P-110	7,541.29	180	16.5	7,557.8
Marker Joint		5 1/2	4.892	17.00	P-110	19.55	1	7,557.8	7,577.4
Casing Joints		5 1/2	4.892	17.00	P-110	194.93	5	7,577.4	7,772.3
Marker Joint		5 1/2	4.892	17.00	P-110	19.66	1	7,772.3	7,792.0
Casing Joints		5 1/2	4.892	17.00	P-110	7,683.30	184	7,792.0	15,475.3
Float Collar		5 1/2	4.892	17.00	P-110	1.50	1	15,475.3	15,476.8
Casing Joints		5 1/2	4.892	17.00	P-110	76.23	2	15,476.8	15,553.0
Float Shoe		5 1/2	4.892	17.00	P-110	1.50	1	15,553.0	15,554.5
Production Casing Cement									
Type Casing		String Production, 15,554.5ftGRD	Cementing Start Date 8/21/2013	Cementing End Date 8/21/2013	Cementing Company SCHLUMBERGER			Top (ftGRD) 0.0	Btm (ftGRD) 15,556.5
Class		Amount (sacks)		Yield (ft³/sack)			Density (lb/gal)		
							11.00		
Class TXI LITEWEIGHT		437		2.51			11.30		
Class TXI LITEWEIGHT		1,709		1.59			12.50		
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)



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Amount (sacks)		Yield (ft³/sack)		Dens (lb/gal)	
Perforations					
Top (ftGRD)	Btm (ftGRD)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
8,013.5	8,015.5		4.0	8	Stage 25 Cluster 5
8,073.5	8,075.5		4.0	8	Stage 25 Cluster 4
8,133.5	8,135.5		4.0	8	Stage 25 Cluster 3
8,193.5	8,195.5		4.0	8	Stage 25 Cluster 2
8,253.5	8,255.5		4.0	8	Stage 25 Cluster 1
8,313.5	8,315.5		4.0	8	Stage 24 Cluster 5
8,373.5	8,375.5		4.0	8	Stage 24 Cluster 4
8,433.5	8,435.5		4.0	8	Stage 24 Cluster 3
8,493.5	8,495.5		4.0	8	Stage 24 Cluster 2
8,553.5	8,555.5		4.0	8	Stage 24 Cluster 1
8,613.5	8,615.5		4.0	8	Stage 23 Cluster 5
8,673.5	8,675.5		4.0	8	Stage 23 Cluster 4
8,737.5	8,739.5		4.0	8	Stage 23 Cluster 3
8,793.5	8,795.5		4.0	8	Stage 23 Cluster 2
8,853.5	8,855.5		4.0	8	Stage 23 Cluster 1
8,913.5	8,915.5		4.0	8	Stage 22 Cluster 5
8,973.5	8,975.5		4.0	8	Stage 22 Cluster 4
9,033.5	9,035.5		4.0	8	Stage 22 Cluster 3
9,093.5	9,095.5		4.0	8	Stage 22 Cluster 2
9,153.5	9,155.5		4.0	8	Stage 22 Cluster 1
9,213.5	9,215.5		4.0	8	Stage 21 Cluster 5
9,273.5	9,275.5		4.0	8	Stage 21 Cluster 4
9,333.5	9,335.5		4.0	8	Stage 21 Cluster 3
9,393.5	9,395.5		4.0	8	Stage 21 Cluster 2
9,453.5	9,455.5		4.0	8	Stage 21 Cluster 1
9,513.5	9,515.5		4.0	8	Stage 20 Cluster 5
9,573.5	9,575.5		4.0	8	Stage 20 Cluster 4
9,633.5	9,635.5		4.0	8	Stage 20 Cluster 3
9,693.5	9,695.5		4.0	8	Stage 20 Cluster 2
9,753.5	9,755.5		4.0	8	Stage 20 Cluster 1
9,816.5	9,818.5		4.0	8	Stage 19 Cluster 5
9,873.5	9,875.5		4.0	8	Stage 19 Cluster 4
9,933.5	9,935.5		4.0	8	Stage 19 Cluster 3
9,993.5	9,995.5		4.0	8	Stage 19 Cluster 2
10,053.5	10,055.5		4.0	8	Stage 19 Cluster 1
10,113.5	10,115.5		4.0	8	Stage 18 Cluster 5
10,173.5	10,175.5		4.0	8	Stage 18 Cluster 4
10,233.5	10,235.5		4.0	8	Stage 18 Cluster 3
10,293.5	10,295.5		4.0	8	Stage 18 Cluster 2
10,353.5	10,355.5		4.0	8	Stage 18 Cluster 1
10,413.5	10,415.5		4.0	8	Stage 17 Cluster 5
10,473.5	10,475.5		4.0	8	Stage 17 Cluster4
10,533.5	10,535.5		4.0	8	Stage 17 Cluster 3
10,593.5	10,595.5		4.0	8	Stage 17 Cluster 2
10,653.5	10,655.5		4.0	8	Stage 17 Cluster 1
10,713.5	10,715.5		4.0	8	Stage 16 Cluster 5
10,773.5	10,775.5		4.0	8	Stage 16 Cluster 4
10,833.5	10,835.5		4.0	8	Stage 16 Cluster 3
10,893.5	10,895.5		4.0	8	Stage 16 Cluster 2
10,953.5	10,955.5		4.0	8	Stage 16 Cluster 1
11,013.5	11,015.5		4.0	8	Stage 15 Cluster 5
11,073.5	11,075.5		4.0	8	Stage 15 Cluster 4

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Perforations

Top (ftGRD)	Btm (ftGRD)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
11,133.5	11,135.5		4.0	8	Stage 15 Cluster 3
11,193.5	11,195.5		4.0	8	Stage 15 Cluster 2
11,253.5	11,255.5		4.0	8	Stage 15 Cluster 1
11,313.5	11,315.5		4.0	8	Stage 14 Cluster 5
11,373.5	11,375.5		4.0	8	Stage 14 Cluster 4
11,433.5	11,435.5		4.0	8	Stage 14 Cluster3
11,493.5	11,495.5		4.0	8	Stage 14 Cluster 2
11,553.5	11,555.5		4.0	8	Stage 14 Cluster 1
11,613.5	11,615.5		4.0	8	Stage 13 Cluster 5
11,673.5	11,675.5		4.0	8	Stage 13 Cluster 4
11,733.5	11,735.5		4.0	8	Stage 13 Cluster 3
11,793.5	11,795.5		4.0	8	Stage 13 Cluster 2
11,853.5	11,855.5		4.0	8	Stage 13 Cluster 1
11,913.5	11,915.5		4.0	8	Stage 12 Cluster 5
11,973.5	11,975.5		4.0	8	Stage 12 Cluster 4
12,033.5	12,035.5		4.0	8	Stage 12 Cluster 3
12,093.5	12,095.5		4.0	8	Stage 12 Cluster 2
12,153.5	12,155.5		4.0	8	Stage 12 Cluster 1
12,213.5	12,215.5		4.0	8	Stage 11 Cluster 5
12,273.5	12,275.5		4.0	8	Stage 11 Cluster 4
12,333.5	12,335.5		4.0	8	Stage 11 Cluster 3
12,393.5	12,395.5		4.0	8	Stage 11 Cluster 2
12,453.5	12,455.5		4.0	8	Stage 11 Cluster 1
12,513.5	12,515.5		4.0	8	Stage 10 Cluster 5
12,573.5	12,575.5		4.0	8	Stage 10 Cluster 4
12,633.5	12,635.5		4.0	8	Stage 10 Cluster 3
12,693.5	12,695.5		4.0	8	Stage 10 Cluster 2
12,753.5	12,755.5		4.0	8	Stage 10 Cluster 1
12,813.5	12,815.5		4.0	8	Stage 9 Cluster 5
12,873.5	12,875.5		4.0	8	Stage 9 Cluster 4
12,933.5	12,935.5		4.0	8	Stage 9 Cluster 3
12,993.5	12,995.5		4.0	8	Stage 9 Cluster 2
13,053.5	13,055.5		4.0	8	Stage 9 Cluster 1
13,113.5	13,115.5		4.0	8	Stage 8 Cluster 5
13,173.5	13,175.5		4.0	8	Stage 8 Cluster 4
13,233.5	13,235.5		4.0	8	Stage 8 Cluster 3
13,293.5	13,295.5		4.0	8	Stage 8 Cluster 2
13,353.5	13,355.5		4.0	8	Stage 8 Cluster 1
13,413.5	13,415.5		4.0	8	Stage 7 Cluster 5
13,473.5	13,475.5		4.0	8	Stage 7 Cluster 4
13,533.5	13,535.5		4.0	8	Stage 7 Cluster 3
13,593.5	13,595.5		4.0	8	Stage 7 Cluster 2
13,653.5	13,655.5		4.0	8	Stage 7 Cluster 1
13,713.5	13,715.5		4.0	8	Stage 6 Cluster 5
13,773.5	13,775.5		4.0	8	Stage 6 Cluster 4
13,833.5	13,835.5		4.0	8	Stage 6 Cluster 3
13,893.5	13,895.5		4.0	8	Stage 6 Cluster 2
13,953.5	13,955.5		4.0	8	Stage 6 Cluster 1
14,013.5	14,015.5		4.0	8	Stage 5 Cluster 5
14,073.5	14,075.5		4.0	8	Stage 5Cluster 4
14,133.5	14,135.5		4.0	8	Stage 5 Cluster 3
14,193.5	14,195.5		4.0	8	Stage 5 Cluster 2
14,253.5	14,255.5		4.0	8	Stage 5 Cluster 1
14,313.5	14,315.5		4.0	8	Stage 4 Cluster 5

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Perforations

Top (ftGRD)	Btm (ftGRD)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
14,373.5	14,375.5		4.0	8	Stage 4 Cluster 4
14,433.5	14,435.5		4.0	8	Stage 4 Cluster 3
14,493.5	14,495.5		4.0	8	Stage 4 Cluster 2
14,553.5	14,555.5		4.0	8	Stage 4 Cluster 1
14,613.5	14,615.5		4.0	8	Stage 3 Cluster 5
14,673.5	14,675.5		4.0	8	Stage 3 Cluster 4
14,733.5	14,735.5		4.0	8	Stage 3 Cluster 3
14,793.5	14,795.5		4.0	8	Stage 3 Cluster 2
14,853.5	14,855.5		4.0	8	Stage 3 Cluster 1
14,913.5	14,915.5		4.0	8	Stage 2 Cluster 5
14,973.5	14,975.5		4.0	8	Stage 2 Cluster 4
15,033.5	15,035.5		4.0	8	Stage 2 Cluster 3
15,093.5	15,095.5		4.0	8	Stage 2 Cluster 2
15,153.5	15,155.5		4.0	8	Stage 2 Cluster 1
15,213.5	15,215.5		4.0	8	Stage 1 Cluster 5
15,273.5	15,275.5		4.0	8	Stage 1 Cluster 4
15,333.5	15,335.5		4.0	8	Stage 1 Cluster 3
15,393.5	15,395.5		4.0	8	Stage 1 Cluster 2
15,453.5	15,455.5		4.0	8	Stage 1 Cluster 1

### Stimulations & Treatments (Actual)

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
9/28/2013	STAGE 1	Pioneer Pumping Services	15,213.5	15,455.5	0; 0.5 ppg Bulk Sand 25000 lb; 0.75 ppg Bulk Sand 25000 lb; 1.0 ppg Bulk Sand 55000 lb; 1.25 ppg Bul	9,843.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
9/29/2013	STAGE 2	Pioneer Pumping Services	14,913.5	15,155.5	0.5 ppg Bulk Sand 22831 lb; 0.75 ppg Bulk Sand 18490 lb; 1.0 ppg Bulk Sand 53640 lb; 1.25 ppg Bulk S	9,599.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
9/30/2013	STAGE 3	Pioneer Pumping Services	14,613.5	14,855.5	0.5 ppg Bulk Sand 22713 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 49566 lb; 1.25 ppg Bulk S	9,444.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/1/2013	STAGE 4	Pioneer Pumping Services	14,313.5	14,555.5	0.5 ppg Bulk Sand 22747 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 49219 lb; 1.25 ppg Bulk S	8,664.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/1/2013	STAGE 5	Pioneer Pumping Services	14,013.5	14,255.5	0.5 ppg Bulk Sand 25000 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 55000 lb; 1.25 ppg Bulk S	7,666.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/4/2013	STAGE 6	Pioneer Pumping Services	13,713.5	13,955.5	0.5 ppg Bulk Sand 25000 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 46958 lb; 1.25 ppg Bulk S	6,900.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/5/2013	STAGE 7	Pioneer Pumping Services	13,413.5	13,655.5	0.5 ppg Bulk Sand 0 lb; 0.75 ppg Bulk Sand 0 lb; 1.0 ppg Bulk Sand 0 lb; 1.25 ppg Bulk Sand 0 lb; 1.	8,756.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/5/2013	STAGE 8	Pioneer Pumping Services	13,113.5	13,355.5	0.5 ppg Bulk Sand 25000 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 55324 lb; 1.25 ppg Bulk S	8,569.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Stimulations & Treatments (Actual)

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/6/2013	STAGE 9	Pioneer Pumping Services	12,813.5	13,055.5	0.5 ppg Bulk Sand 23784 lb; 0.75 ppg Bulk Sand 21230 lb; 1.0 ppg Bulk Sand 55382 lb; 1.25 ppg Bulk S	8,589.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/6/2013	STAGE 10	Pioneer Pumping Services	12,513.5	12,755.5	0.5 ppg Bulk Sand 22784 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 57849 lb; 1.25 ppg Bulk S	8,355.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/7/2013	STAGE 11	Pioneer Pumping Services	12,213.5	12,455.5	0.5 ppg Bulk Sand 60265 lb; 0.75 ppg Bulk Sand 19847 lb; 1.0 ppg Bulk Sand 53732 lb; 1.25 ppg Bulk S	8,592.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/8/2013	STAGE 12	Pioneer Pumping Services	11,913.5	12,155.5	0.5 ppg Bulk Sand 24862 lb; 0.75 ppg Bulk Sand 21059 lb; 1.0 ppg Bulk Sand 52209 lb; 1.25 ppg Bulk S	9,093.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/8/2013	STAGE 13	Pioneer Pumping Services	11,613.5	11,855.5	0.5 ppg Bulk Sand 23710 lb; 0.75 ppg Bulk Sand 19587 lb; 1.0 ppg Bulk Sand 54203 lb; 1.25 ppg Bulk S	8,774.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/9/2013	STAGE 14	Pioneer Pumping Services	11,313.5	11,555.5	0.5 ppg Bulk Sand 23444 lb; 0.75 ppg Bulk Sand 19413 lb; 1.0 ppg Bulk Sand 53830 lb; 1.25 ppg Bulk S	9,162.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/10/2013	STAGE 15	Pioneer Pumping Services	11,013.5	11,255.5	0.5 ppg Bulk Sand 25000 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 55623 lb; 1.25 ppg Bulk S	8,679.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/11/2013	STAGE 16	Pioneer Pumping Services	10,713.5	10,955.5	0.5 ppg Bulk Sand 25167 lb; 0.75 ppg Bulk Sand 19362 lb; 1.0 ppg Bulk Sand 54489 lb; 1.25 ppg Bulk S	8,515.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/12/2013	STAGE 17	Pioneer Pumping Services	10,413.5	10,655.5	0.5 ppg Bulk Sand 25000 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 53456 lb; 1.25 ppg Bulk S	8,296.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/12/2013	STAGE 18	Pioneer Pumping Services	10,113.5	10,355.5	0.5 ppg Bulk Sand 24188 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 55689 lb; 1.25 ppg Bulk S	8,378.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/13/2013	STAGE 19	Pioneer Pumping Services	9,813.5	10,055.5	0.5 ppg Bulk Sand 24425 lb; 0.75 ppg Bulk Sand 20192 lb; 1.0 ppg Bulk Sand 56353 lb; 1.25 ppg Bulk S	8,417.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/13/2013	STAGE 20	Pioneer Pumping Services	9,513.5	9,755.5	0.5 ppg Bulk Sand 24741 lb; 0.75 ppg Bulk Sand 20750 lb; 1.0 ppg Bulk Sand 54418 lb; 1.25 ppg Bulk S	8,395.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/13/2013	STAGE 21	Pioneer Pumping Services	9,213.5	9,453.5	0.5 ppg Bulk Sand 21027 lb; 0.75 ppg Bulk Sand 19138 lb; 1.0 ppg Bulk Sand 50756 lb; 1.25 ppg Bulk S	10,285.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/14/2013	STAGE 22	Pioneer Pumping Services	8,913.5	9,155.5	0.5 ppg Bulk Sand 25000 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 55908 lb; 1.25 ppg Bulk S	8,982.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

### Stimulations & Treatments (Actual)

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/16/2013	STAGE 23	Pioneer Pumping Services	8,613.5	8,855.5	0; 0.5 ppg Bulk Sand 23851 lb; 0.75 ppg Bulk Sand 18601 lb; 1.0 ppg Bulk Sand 51674 lb; 1.25 ppg Bul	9,400.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/17/2013	STAGE 24	Pioneer Pumping Services	8,313.5	8,555.5	0.5 ppg Bulk Sand 20622 lb; 0.75 ppg Bulk Sand 20548 lb; 1.0 ppg Bulk Sand 51754 lb; 1.25 ppg Bulk S	8,401.00

#### <Comment?>, Middle Wolfcamp Shale A-1, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
10/17/2013	STAGE 25	Pioneer Pumping Services	8,013.5	8,255.5	0.5 ppg Bulk Sand 25000 lb; 0.75 ppg Bulk Sand 20625 lb; 1.0 ppg Bulk Sand 49322 lb; 1.25 ppg Bulk S	7,966.00

### Zones

Zone Name	Top (ftGRD)
Middle Wolfcamp Shale A-1	

### Tubing Details

Tubing Description	Set Depth (ftGRD)	Run Date
Tubing - Production	7,719.2	11/6/2013

### Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Tubing Hanger				0.75	1	0.0	0.7
Tubing	2 7/8		L-80	31.50	1	0.7	32.2
Tubing	2 7/8	4.70	L-80	2,152.48	69	32.2	2,184.7
Gas Lift Sub	2 7/8	4.00		4.10	1	2,184.7	2,188.8
Tubing	2 7/8		L-80	878.80	28	2,188.8	3,067.6
Gas Lift Sub	2 7/8	4.00		4.10	1	3,067.6	3,071.7
Tubing	2 7/8		L-80	502.45	16	3,071.7	3,574.2
Gas Lift Sub	2 7/8	4.00		4.10	1	3,574.2	3,578.3
Tubing	2 7/8		L-80	502.11	16	3,578.3	4,080.4
Gas Lift Sub	2 7/8	4.00		4.10	1	4,080.4	4,084.5
Tubing	2 7/8		L-80	501.90	16	4,084.5	4,586.4
Gas Lift Sub	2 7/8	4.00		4.10	1	4,586.4	4,590.5
Tubing	2 7/8		L-80	497.36	16	4,590.5	5,087.8
Gas Lift Sub	2 7/8	4.00		4.10	1	5,087.8	5,091.9
Tubing	2 7/8		L-80	498.52	16	5,091.9	5,590.5
Gas Lift Sub	2 7/8	4.00		4.10	1	5,590.5	5,594.6
Tubing	2 7/8		L-80	501.72	16	5,594.6	6,096.3
Gas Lift Sub	2 7/8	4.00		4.10	1	6,096.3	6,100.4
Tubing	2 7/8		L-80	470.72	15	6,100.4	6,571.1
Gas Lift Sub	2 7/8	4.00		4.10	1	6,571.1	6,575.2
Tubing	2 7/8		L-80	471.25	15	6,575.2	7,046.5
Gas Lift Sub	2 7/8	4.00		4.10	1	7,046.5	7,050.6
Tubing	2 7/8		L-80	591.69	19	7,050.6	7,642.2
Gas Lift Sub	2 7/8	4.00		4.10	1	7,642.2	7,646.3
Tubing	2 7/8		L-80	63.40	2	7,646.3	7,709.7
On-Off Tool	2 7/8			1.66	1	7,709.7	7,711.4
Packer	2 7/8			7.40	1	7,711.4	7,718.8
Nipple	2 7/8			0.40	1	7,718.8	7,719.2

### Rod Strings

Rod Description	Set Depth (ftGRD)	Run Date
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### Rod Components

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

Well Name: UNIVERSITY 10-1 7H

### Other In Hole

Des	Top (ftGRD)	Btm (ftGRD)	OD (in)	Run Date	Pull Date	Com	String	Wellbore
Composite Plug 1	15,184.5	15,186.5	4.89	9/29/2013	11/3/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 2	14,884.5	14,886.5	4.89	9/29/2013	11/3/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 3	14,584.5	14,586.5	4.89	9/29/2013	11/3/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 4	14,284.5	14,286.5	4.89	10/1/2013	11/3/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 5	13,984.5	13,986.5	4.89	10/3/2013	11/3/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 6	13,684.5	13,686.5	4.89	10/4/2013	11/3/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 7	13,379.5	13,381.5	4.89	10/5/2013	11/3/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 8	13,084.5	13,086.5	4.89	10/5/2013	11/2/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 9	12,784.5	12,786.5	4.89	10/6/2013	11/2/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 10	12,484.5	12,486.5	4.89	10/7/2013	11/2/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 11	12,184.5	12,186.5	4.89	10/7/2013	11/1/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 12	11,910.5	11,912.5	4.89	10/8/2013	11/1/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 13	11,584.5	11,586.5	4.89	10/8/2013	11/1/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 14	11,284.5	11,286.5	4.89	10/9/2013	11/1/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 15	10,984.5	10,986.5	4.89	10/11/2013	11/1/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 16	10,684.5	10,686.5	4.89	10/11/2013	10/31/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 17	10,384.5	10,386.5	4.89	10/12/2013	10/31/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 18	10,084.5	10,086.5	4.89	10/12/2013	10/31/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 19	9,784.5	9,786.5	4.89	10/13/2013	10/31/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 20	9,484.5	9,486.5	4.89	10/13/2013	10/31/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 21	9,184.5	9,186.5	4.89	10/14/2013	10/31/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 22	8,884.5	8,886.5	4.89	10/15/2013	10/31/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 23	8,584.5	8,586.5	4.89	10/16/2013	10/31/2013		Production, 15,554.5ftGRD	Original Hole
Composite Plug 24	8,284.5	8,286.5	4.89	10/17/2013	10/30/2013		Production, 15,554.5ftGRD	Original Hole
Composite Kill Plug 25	7,603.5	7,605.5	4.89	10/18/2013	10/30/2013		Production, 15,554.5ftGRD	Original Hole
Packer	7,711.5	7,718.5	4.89	11/5/2013			Production, 15,554.5ftGRD	Original Hole

### Well Tests

Description					Volume Oil Total (bbl)	Volume Gas Total (MCF)	Volume Water Total (bbl)	
BEFORE IP					10865.4	12,797.190	35667.3	
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)
11/14/2013		20.000	280.0	0.0		0.0	40.960	1240.3
11/15/2013		20.000	140.0	1,003.0		72.0	109.000	1992.0
11/16/2013		0.000	168.0	996.0		189.0	258.000	2049.0
11/17/2013		0.000	186.0	979.0		303.0	370.000	2007.0



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

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)
11/18/2013		0.000	198.0	979.0		376.7	420.520	1883.5
11/18/2013		0.000	198.0	979.0		376.7	420.520	1883.5
11/19/2013		0.000	197.0	987.0		406.0	472.000	1684.0
11/19/2013		0.000	197.0	987.0		406.0	472.000	1684.0
11/20/2013		0.000	203.0	987.0		403.0	452.000	1491.0
11/20/2013		0.000	203.0	987.0		403.0	452.000	1491.0
11/21/2013		0.000	173.0	963.0		413.0	433.000	1371.0
11/21/2013		0.000	173.0	963.0		413.0	433.000	1371.0
11/22/2013		0.000	172.0	937.0		429.0	529.000	1309.0
11/23/2013		0.000	188.0	928.0		409.0	385.000	1186.0
11/24/2013		0.000	114.0	922.0		412.0	441.000	1118.0
11/25/2013		0.000	820.0	910.0		327.0	198.000	1035.0
12/4/2013		0.000	166.0	930.0		486.0	318.000	1005.0
12/5/2013		0.000	149.0	880.0		388.0	650.000	1044.0
12/6/2013		0.000	125.0	1,110.0		358.0	174.000	548.0
12/7/2013		0.000	160.0	915.0		399.0	278.000	838.0
12/8/2013		0.000	165.0	925.0		451.8	472.700	769.0
12/9/2013		0.000	150.0	895.0		489.0	637.000	873.0
12/10/2013		0.000	180.0	910.0		326.6	458.090	725.2
12/11/2013		0.000	160.0	910.0		408.0	532.000	704.0
12/12/2013		0.000	179.0	909.0		406.0	600.000	1088.0
12/13/2013		0.000	143.0	888.0		405.6	404.400	526.8
12/14/2013		0.000	168.0	899.0		398.0	515.000	721.0
12/15/2013		0.000	142.0	893.0		368.0	557.000	640.0
12/16/2013		0.000	222.0	911.0		321.0	649.000	698.0
12/17/2013		0.000	180.0	917.0		322.0	666.000	692.0
Description IP					Volume Oil Total (bbl) 429.0	Volume Gas Total (MCF) 529.000	Volume Water Total (bbl) 1309.0	
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)
11/22/2013		0.000	172.0	937.0		429.0	529.000	1309.0
Description AFTER IP					Volume Oil Total (bbl) 13949.4	Volume Gas Total (MCF) 19,770.260	Volume Water Total (bbl) 26032.1	
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)
11/23/2013		0.000	188.0	928.0		409.0	385.000	1186.0
11/24/2013		0.000	114.0	922.0		412.0	441.000	1118.0
11/25/2013		0.000	820.0	910.0		327.0	198.000	1035.0
12/4/2013		0.000	166.0	930.0		486.0	318.000	1005.0
12/5/2013		0.000	149.0	880.0		388.0	650.000	1044.0
12/6/2013		0.000	125.0	1,110.0		358.0	174.000	548.0
12/7/2013		0.000	160.0	915.0		399.0	278.000	838.0
12/8/2013		0.000	165.0	925.0		451.8	472.700	769.0
12/9/2013		0.000	150.0	895.0		489.0	637.000	873.0
12/10/2013		0.000	180.0	910.0		326.6	458.090	725.2
12/11/2013		0.000	160.0	910.0		408.0	532.000	704.0
12/12/2013		0.000	179.0	909.0		406.0	600.000	1088.0
12/13/2013		0.000	143.0	888.0		405.6	404.400	526.8
12/14/2013		0.000	168.0	899.0		398.0	515.000	721.0
12/15/2013		0.000	142.0	893.0		368.0	557.000	640.0
12/16/2013		0.000	222.0	911.0		321.0	649.000	698.0
12/17/2013		0.000	180.0	917.0		322.0	666.000	692.0
12/18/2013		0.000	215.0	915.0		315.0	635.000	667.0
12/19/2013		0.000	170.0	920.0		385.0	643.000	668.0
12/20/2013		0.000	215.0	903.0		371.0	615.000	632.0
12/21/2013		0.000	233.0	904.0		377.0	612.000	612.0
12/22/2013		0.000	149.0	889.0		350.0	629.000	601.0



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

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)
12/23/2013		0.000	161.0	900.0		351.0	555.000	578.0
12/24/2013		0.000	192.0	891.0		348.8	649.600	608.0
12/25/2013		0.000	193.0	885.0		370.2	675.690	572.3
12/26/2013		0.000	157.0	881.0		364.0	606.000	538.0
12/27/2013		0.000	230.0	890.0		337.0	616.000	532.0
12/28/2013		0.000	220.0	885.0		336.0	601.040	538.4
12/29/2013		0.000	180.0	860.0		354.0	691.000	530.0
12/30/2013		0.000	135.0	870.0		326.0	573.000	506.0
12/31/2013		0.000	227.0	870.0		336.0	627.000	499.0
1/1/2014		0.000	157.0	872.0		334.0	664.000	502.0
1/2/2014		0.000	160.0	870.0		330.0	644.000	492.0
1/3/2014		0.000	166.0	865.0		328.0	378.000	473.0
1/4/2014		0.000	222.0	857.0		315.6	333.600	567.6
1/5/2014		0.000	187.0	853.0		390.9	365.140	769.7
1/6/2014		0.000	158.0	849.0		291.0	332.000	470.0
1/7/2014		0.000	128.0	860.0		364.0	390.000	465.0

### Directional Survey

Date		Description					
8/5/2013		MAIN HOLE SURVEY					
Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company	
8/5/2013	73.50	0.36	153.51	73.50	0.31	Multi Shot	
8/5/2013	173.50	0.58	109.10	173.50	1.08	Multi Shot	
8/5/2013	273.50	0.43	74.96	273.49	1.92	Multi Shot	
8/5/2013	373.50	0.54	169.56	373.49	2.50	Multi Shot	
8/5/2013	473.50	0.82	161.60	473.48	3.68	Multi Shot	
8/5/2013	573.50	0.68	160.49	573.47	4.99	Multi Shot	
8/5/2013	586.50	0.66	154.67	586.47	5.14	Multi Shot	
8/5/2013	756.50	0.90	177.50	756.46	7.41	Integrity	
8/8/2013	937.50	0.70	179.40	937.44	9.94	Integrity	
8/8/2013	1,127.50	0.70	122.60	1,127.43	11.98	Integrity	
8/8/2013	1,316.50	0.70	98.40	1,316.41	14.24	Integrity	
8/8/2013	1,506.50	0.50	126.00	1,506.40	16.17	Integrity	
8/8/2013	1,696.50	0.20	134.60	1,696.40	17.33	Integrity	
8/8/2013	1,885.50	0.20	106.80	1,885.40	17.97	Integrity	
8/8/2013	2,074.50	0.40	118.40	2,074.40	18.96	Integrity	
8/8/2013	2,264.50	1.80	344.50	2,264.37	21.53	Integrity	
8/8/2013	2,454.50	1.80	355.70	2,454.28	27.47	Integrity	
8/8/2013	2,643.50	3.00	355.50	2,643.11	35.38	Integrity	
8/8/2013	2,833.50	4.80	6.60	2,832.66	48.25	Integrity	
8/8/2013	3,023.50	5.30	13.10	3,021.92	64.94	Integrity	
8/8/2013	3,212.50	4.80	349.70	3,210.21	81.24	Integrity	
8/8/2013	3,402.50	3.70	319.50	3,399.71	94.84	Integrity	
8/8/2013	3,592.50	1.60	57.80	3,589.56	101.16	Integrity	
8/8/2013	3,781.50	1.90	70.20	3,778.47	106.90	Integrity	
8/8/2013	3,971.50	1.20	277.50	3,968.44	108.56	Integrity	
8/8/2013	4,160.50	1.40	281.70	4,157.39	112.84	Integrity	
8/8/2013	4,350.50	0.90	321.40	4,347.36	116.44	Integrity	
8/8/2013	4,540.50	0.20	358.00	4,537.35	118.21	Integrity	
8/8/2013	4,730.50	0.40	95.50	4,727.35	118.91	Integrity	
8/8/2013	4,920.50	0.70	113.80	4,917.34	120.71	Integrity	
8/8/2013	5,109.50	0.70	95.70	5,106.32	122.99	Integrity	
8/8/2013	5,299.50	0.70	333.20	5,296.32	124.11	Integrity	
8/8/2013	5,488.50	0.90	75.50	5,485.31	125.79	Integrity	
8/8/2013	5,677.50	1.60	82.40	5,674.26	129.90	Integrity	
8/8/2013	5,772.50	2.30	40.20	5,769.21	132.92	Integrity	
8/8/2013	5,866.50	4.40	6.40	5,863.05	138.20	Integrity	

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
8/8/2013	5,961.50	6.20	353.20	5,957.64	146.92	Integrity
8/8/2013	6,058.50	8.60	354.30	6,053.83	159.41	Integrity
8/8/2013	6,153.50	10.20	356.70	6,147.55	174.93	Integrity
8/8/2013	6,248.50	11.30	359.90	6,240.88	192.64	Integrity
8/8/2013	6,343.50	13.00	0.80	6,333.75	212.63	Integrity
8/8/2013	6,438.50	14.40	2.20	6,426.05	235.13	Integrity
8/8/2013	6,532.50	14.80	0.30	6,517.01	258.82	Integrity
8/8/2013	6,627.50	16.70	0.80	6,608.44	284.61	Integrity
8/8/2013	6,722.50	19.50	1.80	6,698.73	314.12	Integrity
8/8/2013	6,817.50	21.60	0.40	6,787.68	347.46	Integrity
8/8/2013	6,912.50	23.40	2.40	6,875.45	383.81	Integrity
8/8/2013	7,006.50	24.60	1.10	6,961.32	422.04	Integrity
8/8/2013	7,101.50	25.50	356.70	7,047.39	462.24	Integrity
8/8/2013	7,196.50	25.20	357.10	7,133.24	502.91	Integrity
8/8/2013	7,291.50	27.10	359.70	7,218.52	544.77	Integrity
8/8/2013	7,386.50	32.00	2.20	7,301.14	591.60	Integrity
8/8/2013	7,480.50	36.60	1.80	7,378.77	644.55	Integrity
8/8/2013	7,560.50	37.10	2.70	7,442.79	692.53	Integrity
8/8/2013	7,697.50	44.70	2.00	7,546.27	782.16	Integrity
8/8/2013	7,792.50	56.10	3.40	7,606.72	855.24	Integrity
8/8/2013	7,887.50	68.30	3.40	7,650.95	939.11	Integrity
8/8/2013	7,981.50	80.10	1.50	7,676.50	1,029.40	Integrity
8/8/2013	8,076.50	88.50	356.60	7,685.93	1,123.81	Integrity
8/8/2013	8,171.50	92.60	357.80	7,685.02	1,218.79	Integrity
8/8/2013	8,266.50	92.90	357.60	7,680.46	1,313.68	Integrity
8/8/2013	8,361.50	92.20	358.00	7,676.23	1,408.58	Integrity
8/8/2013	8,456.50	91.80	359.00	7,672.92	1,503.52	Integrity
8/8/2013	8,551.50	92.60	1.10	7,669.27	1,598.45	Integrity
8/8/2013	8,645.50	91.70	359.90	7,665.74	1,692.38	Integrity
8/8/2013	8,740.50	90.10	359.90	7,664.25	1,787.36	Integrity
8/8/2013	8,835.50	91.30	0.10	7,663.09	1,882.36	Integrity
8/8/2013	8,930.50	90.30	0.30	7,661.77	1,977.35	Integrity
8/8/2013	9,025.50	91.70	0.30	7,660.11	2,072.33	Integrity
8/8/2013	9,120.50	88.70	359.40	7,659.78	2,167.32	Integrity
8/8/2013	9,215.50	88.20	359.00	7,662.35	2,262.28	Integrity
8/8/2013	9,309.50	88.90	1.10	7,664.72	2,356.24	Integrity
8/8/2013	9,404.50	90.40	1.80	7,665.30	2,451.24	Integrity
8/8/2013	9,499.50	92.20	3.10	7,663.15	2,546.21	Integrity
8/8/2013	9,593.50	89.40	1.00	7,661.84	2,640.19	Integrity
8/8/2013	9,688.50	88.50	1.00	7,663.58	2,735.17	Integrity
8/8/2013	9,783.50	90.10	2.40	7,664.74	2,830.16	Integrity
8/8/2013	9,877.50	91.70	3.40	7,663.26	2,924.14	Integrity
8/8/2013	9,972.50	88.70	1.10	7,662.93	3,019.12	Integrity
8/8/2013	10,067.50	88.70	1.30	7,665.09	3,114.10	Integrity
8/8/2013	10,161.50	90.80	3.20	7,665.50	3,208.09	Integrity
8/8/2013	10,256.50	91.70	3.20	7,663.42	3,303.06	Integrity
8/8/2013	10,351.50	89.00	1.50	7,662.84	3,398.05	Integrity
8/8/2013	10,445.50	89.00	0.80	7,664.48	3,492.04	Integrity
8/8/2013	10,540.50	90.30	1.10	7,665.06	3,587.03	Integrity
8/8/2013	10,635.50	89.70	1.00	7,665.06	3,682.03	Integrity
8/8/2013	10,729.50	89.60	2.00	7,665.64	3,776.03	Integrity
8/8/2013	10,824.50	91.50	3.20	7,664.73	3,871.02	Integrity
8/8/2013	10,918.50	90.10	0.80	7,663.41	3,965.00	Integrity
8/8/2013	11,013.50	90.40	1.50	7,663.00	4,060.00	Integrity
8/8/2013	11,108.50	88.70	359.90	7,663.75	4,154.99	Integrity
8/8/2013	11,203.50	88.90	359.90	7,665.73	4,249.97	Integrity

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-1 7H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
8/8/2013	11,297.50	90.60	0.10	7,666.14	4,343.96	Integrity
8/8/2013	11,392.50	90.10	0.80	7,665.56	4,438.96	Integrity
8/8/2013	11,487.50	92.00	1.50	7,663.82	4,533.94	Integrity
8/8/2013	11,582.50	87.80	0.60	7,663.99	4,628.92	Integrity
8/8/2013	11,676.50	88.00	1.30	7,667.43	4,722.85	Integrity
8/8/2013	11,771.50	89.40	1.70	7,669.59	4,817.83	Integrity
8/8/2013	11,866.50	91.50	2.40	7,668.84	4,912.82	Integrity
8/8/2013	11,961.50	90.10	1.70	7,667.52	5,007.80	Integrity
8/8/2013	12,055.50	89.90	1.30	7,667.52	5,101.80	Integrity
8/8/2013	12,150.50	89.60	0.40	7,667.93	5,196.80	Integrity
8/8/2013	12,245.50	90.10	0.40	7,668.18	5,291.80	Integrity
8/8/2013	12,340.50	87.80	1.10	7,669.92	5,386.78	Integrity
8/8/2013	12,434.50	89.60	1.70	7,672.05	5,480.75	Integrity
8/8/2013	12,529.50	91.80	1.80	7,670.89	5,575.74	Integrity
8/8/2013	12,624.50	89.70	1.00	7,669.65	5,670.72	Integrity
8/8/2013	12,719.50	90.40	359.70	7,669.57	5,765.72	Integrity
8/8/2013	12,813.50	88.00	359.60	7,670.88	5,859.70	Integrity
8/8/2013	12,908.50	89.20	1.70	7,673.20	5,954.67	Integrity
8/8/2013	13,003.50	89.60	0.80	7,674.19	6,049.66	Integrity
8/8/2013	13,097.50	90.10	1.70	7,674.44	6,143.66	Integrity
8/8/2013	13,192.50	90.10	359.20	7,674.28	6,238.65	Integrity
8/8/2013	13,287.50	89.20	358.30	7,674.86	6,333.65	Integrity
8/8/2013	13,381.50	90.30	359.40	7,675.27	6,427.65	Integrity
8/8/2013	13,476.50	90.10	0.60	7,674.93	6,522.64	Integrity
8/8/2013	13,571.50	90.40	0.60	7,674.52	6,617.64	Integrity
8/8/2013	13,666.50	90.10	1.70	7,674.10	6,712.64	Integrity
8/8/2013	13,761.50	89.70	3.80	7,674.27	6,807.63	Integrity
8/8/2013	13,855.50	89.90	5.40	7,674.60	6,901.63	Integrity
8/8/2013	13,950.50	90.10	6.40	7,674.60	6,996.63	Integrity
8/8/2013	14,045.50	91.50	8.00	7,673.27	7,091.61	Integrity
8/8/2013	14,140.50	93.30	1.70	7,669.29	7,186.48	Integrity
8/8/2013	14,234.50	91.10	2.90	7,665.68	7,280.40	Integrity
8/8/2013	14,329.50	91.10	359.40	7,663.86	7,375.37	Integrity
8/8/2013	14,424.50	88.90	359.00	7,663.86	7,470.36	Integrity
8/8/2013	14,519.50	90.30	0.10	7,664.52	7,565.36	Integrity
8/8/2013	14,614.50	89.00	1.70	7,665.10	7,660.35	Integrity
8/8/2013	14,708.50	91.50	1.50	7,664.69	7,754.34	Integrity
8/8/2013	14,803.50	88.90	2.70	7,664.36	7,849.33	Integrity
8/8/2013	14,898.50	89.20	1.30	7,665.93	7,944.32	Integrity
8/8/2013	14,992.50	90.80	2.20	7,665.93	8,038.31	Integrity
8/8/2013	15,087.50	87.80	2.50	7,667.10	8,133.30	Integrity
8/8/2013	15,182.50	88.70	3.40	7,670.00	8,228.25	Integrity
8/8/2013	15,276.50	91.00	3.10	7,670.24	8,322.24	Integrity
8/8/2013	15,371.50	92.20	4.70	7,667.59	8,417.20	Integrity
8/8/2013	15,466.50	93.10	3.10	7,663.20	8,512.09	Integrity
8/8/2013	15,508.50	93.30	4.10	7,660.85	8,554.03	Integrity
8/8/2013	15,556.50	93.30	4.10	7,658.09	8,601.95	Integrity