

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

API/UWI 42-003-46078-0000		Property Sub 927693-028		Operator PIONEER NATURAL RESRC USA INC		State TEXAS		County ANDREWS	
Field Name SPRABERRY (TREND AREA)				Surface Legal Location 555' FNL/ 1472' FEL, SEC: 38, BLK: 7, TWP: , SVY: University Lands					
Spud Date 8/2/2014		TD Date 9/23/2014		Drilling Rig Release Date 9/29/2014		Frac Date 11/19/2014		On Production Date	
Ground Elevation (ft) 2,950.00		Original KB Elevation (ft) 2,976.00		PBDT (All) (ftKB) Original Hole - 20,651.5		Total Depth (All) (ftKB) Original Hole - 20,743.0		Total Depth All (TVD) (ftKB) Original Hole - 10,603.8	
<b>Report #: 1 Daily Operation: 7/30/2014 06:00 - 7/31/2014 06:00</b>									
Job Category ORIG DRILLING				Primary Job Type ODR				AFE Number 030879	
Days From Spud (days) -3		Days on Location (days) 1		End Depth (ftKB) 0.0		End Depth (TVD) (ftKB)		Dens Last Mud (lb/gal)	
								Rig PATTERSON - UTI, 220	
<p>Operations Summary</p> <p>Rigged down electrical, flowline, suit cases, catwalk, bop w/wrangler, V door, water tank, and accumulator and skid rig w/Lightning rig movers,( rig centered over well and verified by Pioneer day and night drilling consultant), R/U catwalk, V door, suit cases, accumulator and electrical, 100% moved and 60% rigged up</p> <p>Remarks</p> <p>Rig move started: 7/30/2014 @ 0600hrs</p> <p>Accepted rig to drill:</p> <p>Total rig move: 8.5 hrs</p> <p>Contacted: TRRC on</p> <p>Surface csg and cement: Intermediate-</p> <p>Production-</p> <p>Spud Surface:</p> <p>TD Surface:</p> <p>TD Intermediate:</p> <p>Landed Curve:</p> <p>Lateral Hole Section Drilled =</p> <p>TD well @</p> <p>Rig release:</p> <p>Last Survey : @</p> <p>Projection @</p> <p>Last Sample @</p> <p>No Accidents, No Incidents or Spills Reported.</p> <p>Days Rig Downtime: 0 Hrs</p> <p>Total Rig Downtime: .</p> <p>Freeboard : 4</p>									
<b>Time Log Summary</b>									
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com			
7/30/2014 06:00	7/30/2014 13:00	7	PLAN	MOB	MIRU	Rig down electrical lines, prep rig for skid.			
7/30/2014 13:00	7/30/2014 21:30	8.5	PLAN	MOB	MIRU	Skid rig to University 7-38 #28H and center over well. Had issues getting rig centered over the hole so Pioneer construction foreman had D8 dozer delivered to assist with rig skid			
7/30/2014 21:30	7/31/2014 06:00	8.5	PLAN	MOB	MIRU	Rig up on University 7-38 #28H, install flowline, set and rig up catwalk, r/u electrical lines, r/u pvc to desander and desilter			

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 2 Daily Operation: 7/31/2014 06:00 - 8/1/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PATTERSON - UTI, 220	
-2	2	0.0				

### Operations Summary

Continue rigging up electrical, silicone and finish rigging up flowline and 2" hoses to jet flowline, Dress conductor (add 2") and tie off w/turnbuckles, deliver and off load surface casing, fill water tanks and working pits with fresh water, discovered gear oil leak on topdrive, topdrive technician diagnosed problem as an inner seal leaking, rigging down lower section of topdrive (RLA) at time of report, rig went on down time @ 0300hrs on 8/1/2014, 100 % moved and 100% rigged up

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill:

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate-

Production-

Spud Surface:

TD Surface:

TD Intermediate:

Landed Curve:

Lateral Hole Section Drilled =

TD well @

Rig release:

Last Survey : @

Projection @

Last Sample @

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime: 0 Hrs

Total Rig Downtime: .

Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/31/2014 06:00	8/1/2014 03:00	21	MOBILIZATION	MIRU	MIRU	Continue rigging up electrical and ground work. Install by pass PVC on trough to reserve pit. Rig up pumps. Rig up 2" hoses to jet flow line. Dress conductor and rig up same. Fill water tanks and pits with fresh water. Rig up desander and desilter.
8/1/2014 03:00	8/1/2014 06:00	3	UNPLAN	EQUIP	U_RIG	Noticed gear oil leak on topdrive as we were about to pick up bails and elevators. Decision made to have topdrive technician diagnose problem. Inner seal needs to be replaced.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 3 Daily Operation: 8/1/2014 06:00 - 8/2/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
-1	3	0.0			PATTERSON - UTI, 220	

### Operations Summary

Continue working on topdrive, remove leaking Rotary Link Assembly and rig up new Rotary Link Assembly (RLA), Release Valve on shot pin bad, Replace swabs and liners on both #1 and #2 pump, 100% moved and 100% rigged up, waiting on Release Valve for Shot Pin @ time of report

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill:

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate-

Production-

Spud Surface:

TD Surface:

TD Intermediate:

Landed Curve:

Lateral Hole Section Drilled =

TD well @

Rig release:

Last Survey : @

Projection @

Last Sample @

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime: 24

Total Rig Downtime: 27 hrs

Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/1/2014 06:00	8/2/2014 06:00	24	UNPLAN	EQUIP	U_RIG	Remove RLA from top drive. Preparing to reinstall new RLA. Install new RLA on topdrive, Release Valve on Shock Pin bad, waiting on parts

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 4 Daily Operation: 8/2/2014 06:00 - 8/3/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
0	4	409.0	409.0	8.50	PATTERSON - UTI, 220	

### Operations Summary

Wait on Shot Pin and install the same, pick up bales and elevators, change out slip dies, pick up directional tools, hold safety stand down w/Patterson and all personnel on location, test motor, shut down and fix leaking flowline, finish testing motor and mwd, TIH and Spud surface @ 2330 hrs on 8/2/2014, Drld surface f/120' to 409', (289' @ 44.46 fph), 15% Complete, 100% rotate, 0% Slide, 8.6 Mw, 44 Vis

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate-

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface:

TD Intermediate:

Landed Curve:

Lateral Hole Section Drilled =

TD well @

Rig release:

Last Survey : @ 292', INC .53°, AZM 53.44°

Projection @ 347', INC .53°, AZM 53.44°

Last Sample @

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 33 hrs

Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/2/2014 06:00	8/2/2014 12:00	6	UNPLAN	EQUIP	U_RIG	Wait on shot pin and install the same.
8/2/2014 12:00	8/2/2014 13:00	1	MOBILIZATION	MIRU	MIRU	Install bales and elevators.
8/2/2014 13:00	8/2/2014 14:00	1	PLAN	EQUIP	RIGSER	Rig Service.
8/2/2014 14:00	8/2/2014 16:30	2.5	PLAN	EQUIP	BHA	Pick up motor and monel.
8/2/2014 16:30	8/2/2014 17:30	1	PLAN	EQUIP	RIGSER	Change drill collar slip segments, due to slipping on hang off sub.
8/2/2014 17:30	8/2/2014 18:00	0.5	PLAN	EQUIP	BHA	Install MWD, pick up kelly joint and install cross overs.
8/2/2014 18:00	8/2/2014 18:30	0.5	PLAN	PERS	SFTY	Safety stand down per Patterson with both rig crews. Discussed personnell's commitment to safety, zero incidents, not overlooking corrective action items, work postures, and slip/pipe handling.
8/2/2014 18:30	8/2/2014 21:30	3	UNPLAN	EQUIP	U_RIG	Shut down to fix leaking flowline, replaced "O" Ring
8/2/2014 21:30	8/2/2014 22:00	0.5	UNPLAN	EQUIP	U_RIG	Shut down to un clog flowline
8/2/2014 22:00	8/3/2014 00:00	2	SURFACE - BHA	P/U SURFACE BHA	DRLG	Make up bha #1 (Surface BHA)
8/3/2014 00:00	8/3/2014 06:00	6	SURF-DRILL	DRILL SURFACE	DRL	Drld f/120'-409' (289' @ 44.46 fph), Wob 10, rotary 70, gpm 756, torque 3-5, spp 1300, differential 200

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 5 Daily Operation: 8/3/2014 06:00 - 8/4/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
1	5	1,951.0	1,949.9	9.20	PATTERSON - UTI, 220		

### Operations Summary

Drid surf 590' to 1951' (1361' @ 124 fph); 100% complete @ 00:00 hrs 08/04/2014; 91% rot, 9% sldg.

Circ. two 50 bbl. sweeps around  
Circ. until shakers where clean  
Trip out of hole to run surface casing  
Change out o'ring on discharge line  
Back ream do to bit balling up

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
TD Intermediate:  
Landed Curve:  
Lateral Hole Section Drilled =  
TD well @

Rig release:

Last Survey : @ 292', INC .53°, AZM 53.44°  
Projection @ 347', INC .53°, AZM 53.44°

Last Sample @  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 33 hrs  
Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/3/2014 06:00	8/3/2014 07:30	1.5	UNPLAN	EQUIP	U_RIG	Circulate, unplug flowline, fix hoses on cellar pump. Add Sapp and Drill A.
8/3/2014 07:30	8/3/2014 09:30	2	SURF-DRILL	DRILL SURFACE	DRL	Rotate from 409' to 501' (92' @ 46 fph). WOB 10k, 70 rpm, SPP 1270, motor diff 200, 758 GPM, torque 5k.
8/3/2014 09:30	8/3/2014 10:00	0.5	SURF-DRILL	DRILL SURFACE	DRL	Slide from 501' to 531' (30' @ 60 fph). 10 MTF, WOB 11k, SPP 1257, motor diff 90, 758 GPM.
8/3/2014 10:00	8/3/2014 11:00	1	SURF-DRILL	DRILL SURFACE	DRL	Rotate from 531' to 590' (59' @ 59 fph). WOB 10k, 70 rpm, SPP 1300, motor diff 270, 758 GPM, torque 6k.
8/3/2014 11:00	8/3/2014 13:00	2	UNPLAN	EQUIP	U_RIG	Circulate, check suction screens on pumps. Pull valve caps and check for trash. Reassemble #2 pump and put both pumps on line and synced fine.
8/3/2014 13:00	8/3/2014 13:30	0.5	SURF-DRILL	DRILL SURFACE	DRL	Slide from 590' to 610' (20' @ 40 fph). WOB 11k, SPP 1540, motor diff 370, 799 GPM.
8/3/2014 13:30	8/3/2014 19:00	5.5	SURF-DRILL	DRILL SURFACE	DRL	Rotate from 610' to 1445' (835' @ 152 fph). WOB 15k, 80 rpm, SPP 2810, motor diff 620, 840 GPM, torque 9k.
8/3/2014 19:00	8/3/2014 19:30	0.5	SURF-DRILL	DRILL SURFACE	DRL	Slide from 1445' to 1460' (15' @ 30 fph). 305 MTF, WOB 12k, SPP 2630, motor diff 350, 840 GPM, torque 0k.
8/3/2014 19:30	8/4/2014 00:00	4.5	SURF-DRILL	DRILL SURFACE	DRL	Rotate from 1460' to 1951' (491' @ 109 fph). WOB 30k, 80 rpm, SPP 2780, motor diff 588, 840 GPM, torque 14k.
8/4/2014 00:00	8/4/2014 01:30	1.5	SURF-CIRC	CIRCULATE	CIRC	T.D surface @ 1951' Circulate two 50 bbl. sweeps around to insure the was cleaned up and the shakers where clean prepare to trip out of hole
8/4/2014 01:30	8/4/2014 03:30	2	SURF-TRIP	TOOH	TRIP	Trip out of hole and back ream f/1890' t/1238'

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/4/2014 03:30	8/4/2014 04:30	1	UNPLAN	EQUIP	U_RIG	The 10k hammer union on discharge line is wash out and keeps blowing o'rings
8/4/2014 04:30	8/4/2014 06:00	1.5	SURF-TRIP	TOOH	TRIP	Back reaming f/1238' t/800' @ 30 SPM 120 GPM.

Report #: 6 Daily Operation: 8/4/2014 06:00 - 8/5/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 2	Days on Location (days) 6	End Depth (ftKB) 1,951.0	End Depth (TVD) (ftKB) 1,949.9	Dens Last Mud (lb/gal) 9.20	Rig PATTERSON - UTI, 220	

#### Operations Summary

Back ream out of hole  
Lay down DDR tools  
Make up 17.5 bit on dumb iron  
Rig repair  
Make wiper trip

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
TD Intermediate:  
Landed Curve:  
Lateral Hole Section Drilled =  
TD well @

Rig release:

Last Survey : @ 292', INC .53°, AZM 53.44°  
Projection @ 347', INC .53°, AZM 53.44°

Last Sample @  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 33 hrs  
Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/4/2014 06:00	8/4/2014 16:00	10	SURF-TRIP	TOOH	TRIP	Back reaming f/800' t/163' @ 30 SPM 120 GPM, increase to 70 SPM 295 GPM 80 RPM. Pump 10 bbl 80 vis sweep. Pump 20 bbl 80 vis sweep with nut plug. Pump 50 bbl sweep 80 vis with nut plug. Initial sweep after increase in pump rate, brought back large amount of cuttings. Other sweeps brought very significant amount of cuttings.
8/4/2014 16:00	8/4/2014 18:00	2	SURF-TRIP	TOOH	TRIP	Cleaned off bit and break off same. Bit Balled up. Motor stabilizer sleeve (slick) backed off motor and rode out on bit. Break and lay-down mud motor and ubho sub
8/4/2014 18:00	8/4/2014 19:00	1	SURF-TRIP	TOOH	TRIP	Rig service greased top drive, crown, draw works
8/4/2014 19:00	8/4/2014 19:30	0.5	SURF-TIH	TRIP IN HOLE	TIH	Make up bit, bit sub and stand of 8" DC's.
8/4/2014 19:30	8/5/2014 03:30	8	UNPLAN	EQUIP	U_RIG	Rig Repair cut and replace 10k hammer union on high pressure mud line. Let welds cool to outside temperature and make up hammer union and pressure test with pumps up to 2500 psi. (Test Good)
8/5/2014 03:30	8/5/2014 05:00	1.5	SURF-TIH	TRIP IN HOLE	TIH	Making wiper trip @ 554' with dumb iron to insure the hole is clean
8/5/2014 05:00	8/5/2014 06:00	1	SURF-TIH	TRIP IN HOLE	TIH	Replace 4" valve on conductor pipe. Valve was broke in 1/2.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 7 Daily Operation: 8/5/2014 06:00 - 8/6/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
3	7	1,951.0	1,949.9	9.30	PATTERSON - UTI, 220	

Operations Summary  
 Finish wiper trip  
 Trip out hole to run casing  
 Rig up casing crew  
 Run 13.3/8 casing  
 Wash casing to 1942'  
 Rig down casing crew  
 Start rigging up cementers at report time

Remarks  
 Rig move started: 7/30/2014 @ 0600hrs  
 Accepted rig to drill: 8/2/14 12:00  
 Total rig move: 8.5 hrs  
  
 Contacted: TRRC on  
 Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
 Intermediate-  
 Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
 TD Surface: 8/4/2014 @ 00:00  
 TD Intermediate:  
 Landed Curve:  
 Lateral Hole Section Drilled =  
 TD well @

Rig release:

Last Survey : @ 292', INC .53°, AZM 53.44°  
 Projection @ 347', INC .53°, AZM 53.44°

Last Sample @  
 No Accidents, No Incidents or Spills Reported.  
 Days Rig Downtime:  
 Total Rig Downtime: 33 hrs  
 Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/5/2014 06:00	8/5/2014 09:30	3.5	SURF-TIH	TRIP IN HOLE	TIH	Wash and ream 1013' - 1951. Wash through bridges and tight hole. Shakers covered while reaming in the hole.
8/5/2014 09:30	8/5/2014 10:30	1	SURF-CIRC	CIRCULATE	CIRC	Circulate 2 40 bbl 80 vis sweeps w/ 5 PPB nut plug. Moderate increase in cuttings. Shakers clean.
8/5/2014 10:30	8/5/2014 13:30	3	SURF-TRIP	TOOH	TRIP	Start trip out of hole. Back ream 1900' - 1377. Pulling 40-50K over. Back ream @ 80 RPM 800 GPM with torque increasing to 10K in various sections.
8/5/2014 13:30	8/5/2014 17:30	4	SURF-TRIP	TOOH	TRIP	Trip out of hole on elevators. 1377' - 700'. Stop trouble shoot trip tank not filling hole. Finish tripping out of hole and break 17.5 bit
8/5/2014 17:30	8/5/2014 18:30	1	SURF-CASE	RUN SURFACE CASING	CASE	Rig up Express casing crew and hold safety meeting with rig hands and casing crew
8/5/2014 18:30	8/6/2014 03:30	9	SURF-CASE	RUN SURFACE CASING	CASE	Run 13.3/8 casing  ****Note the casing crew took 2 hrs. 45 min. to make up shoe joint and float joint****
8/6/2014 03:30	8/6/2014 04:30	1	SURF-CIRC	CIRCULATE	CIRC	Washing casing from 1925' to 1942'
8/6/2014 04:30	8/6/2014 06:00	1.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Rig down casing crew and rig up cementers

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

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

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
4	8	1,951.0	1,949.9	9.30	PATTERSON - UTI, 220		

### Operations Summary

Rig up cementers and cement surface  
Wait on cement  
Lay down conductor riser and cut casing install wellhead  
Nipple up BOP  
Rig Repair work on Koomey unit  
Function test BOP  
Preparing to test BOP at report time

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
TD Intermediate:  
Landed Curve:  
Lateral Hole Section Drilled =  
TD well @

Rig release:

Last Survey : @ 292', INC .53°, AZM 53.44°  
Projection @ 347', INC .53°, AZM 53.44°

Last Sample @  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 33 hrs  
Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/6/2014 06:00	8/6/2014 08:00	2	SURF-CIRC	CIRCULATE	CIRC	Wash casing to bottom 1932' - 1951'. Vary pump rates 45 to 90 SPM. Finish loading cement iron on floor while working pipe to bottom.
8/6/2014 08:00	8/6/2014 08:30	0.5	SURF-CMT	CEMENT SURFACE CASING	CMT	PJSM with Chief Cementing and rig up cementer.
8/6/2014 08:30	8/6/2014 11:00	2.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Pressure test lines to 2000 PSI. Precede cement with 20 bbls fresh water. Pump cement as follows: 730 sacks Class C 70/30/6, with Gel 6%, Salt 5%, DF-10 0.25% slurry weight 12.8 lb/gal, yield 1.93 cu.ft/sx, water 10.64 gal/sx, 410 sacks Class C with CaCl2 2%, Gel 4%, DF-10 0.25%. Displace with 295 bbl fresh water. Lift pressure 638 @ 4 BPM, bump plug with 1240 psi. Held 5 minutes bleed back 1.5 bbls. Floats held, good circulation through out job. 20 BBLs cement to surface
8/6/2014 11:00	8/6/2014 15:00	4	SURF-CMT	CEMENT SURFACE CASING	CMT	Wait on cement. Nipple down flowline, remove turn buckles, clean cellar.
8/6/2014 15:00	8/6/2014 19:30	4.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Loosen allen head screws Pick up on conductor Rough cut 13.3/8 casing Lay down casing cut off and lay down conductor pipe and cut conductor to fit wellhead Make final cut on 13.3/8 surface casing and set the head 6" below ground level Install wellhead and weld on the wellhead allow to cool and test to 500 psi. hold test for 10 minutes (Test Good)



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/6/2014 19:30	8/7/2014 02:30	7	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	BOP bolts were not prepped as discussed. Clean BOP bolts and nipple up BOP. Hook up electrical, air, and remote to Koomey unit. Lay out hydraulic lines and hook up. Lift BOP with Bop wrangler and adjust over well remove hole cover install ring gasket and line up bolt holes on BOP and wellhead set BOP down on head install BOP bolts. made sure that there was a full nut on top and bottom hammer up bolts by hand. Install kill line, HCR and hammer up bolts. Hook up all lines from koomey to BOP stack and hooked electric line plus remote unit to koomey. Started to pressure up on koomey unit and would not pressure up.
8/7/2014 02:30	8/7/2014 04:00	1.5	UNPLANNED	Rig-related problems (BOPE, etc)	U_RIG	had to wake up rig manager to go though koomey unit to correct the problem of the koomey unit not pressuring up. The unit was low of oil and the pressure release valve was all the way out. Once the unit was valve was closed and the oil level was right the unit pressuered up
8/7/2014 04:00	8/7/2014 04:30	0.5	SURF-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Test casing 250 low / 500 high. Ok.
8/7/2014 04:30	8/7/2014 06:00	1.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Function testing BOP to make sure everything working properly. Pick up test plug and begin testing BOP with Lonestar Testers.

Report #: 9 Daily Operation: 8/7/2014 06:00 - 8/8/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
5	9	1,951.0	1,949.9	9.30	PATTERSON - UTI, 220	

#### Operations Summary

Finish testing BOP  
Rig repair change TIW.  
Rig up transfer pump for gel mud system  
Make up Intermediate BHA  
Surface test mwd (test good)  
Lay down 2 stands of 6" drill collars  
Trip in hole  
Pick up jars, 2 jts. of hwdp  
Finish tripping in hole to shoe

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
TD Intermediate:  
Landed Curve:  
Lateral Hole Section Drilled =  
TD well @

Rig release:

Last Survey : @ 292', INC .53°, AZM 53.44°  
Projection @ 347', INC .53°, AZM 53.44°

Last Sample @  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 33 hrs  
Freeboard : 4

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/7/2014 06:00	8/7/2014 10:30	4.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Test back to pumps 250 low 4200 high. Upper TIW valve failed. Test Pipe rams, blind rams, choke, 250 lo / 2500 high ok. Test annular 250 low / 1500 high.
8/7/2014 10:30	8/7/2014 12:00	1.5	UNPLAN	EQUIP	U_RIG	Replace upper TIW and saver sub.
8/7/2014 12:00	8/7/2014 12:30	0.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Test upper TIW 250 low / 2500 high. OK.
8/7/2014 12:30	8/7/2014 13:00	0.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Install wear bushing.
8/7/2014 13:00	8/7/2014 15:30	2.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Hook up flow line.
8/7/2014 15:30	8/7/2014 17:00	1.5	PLAN	DRLG	CUTDL	Slip cut 75' of drill line
8/7/2014 17:00	8/7/2014 18:00	1	PLAN	EQUIP	RIGSER	Rig service
8/7/2014 18:00	8/7/2014 21:00	3	PLAN	OTHR	PUMPPIL L	Rig up Transfer pumps from gel mud premix and frac tanks to rig steel tanks and hook up all hoses needed to transfer gel mud when needed.
8/7/2014 21:00	8/8/2014 00:30	3.5	SURF-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRILL OUT/FIT	Make up new DDR BHA Scribe New mud motor and install new mwd Surface test new mwd (Test Good)
8/8/2014 00:30	8/8/2014 02:30	2	SURF-TIH	TRIP IN HOLE	TIH	Trip in hole to second stand of 6" drill collars
8/8/2014 02:30	8/8/2014 04:30	2	SURF-TIH	TRIP IN HOLE	TIH	Lay down 2 stands of 6" drill collars
8/8/2014 04:30	8/8/2014 06:00	1.5	SURF-TIH	TRIP IN HOLE	TIH	Trip in hole to drilling "jars" Atmpt to make up hwdp that was delivered from (Triumph Machine Shop) and they sent out the wrong HWDP it was a 4.5 X-Hole thread and Pattersons HWDP is 4.5 I-F We are picking up 2 more joints off the pipe racks to replace the 2 that was wrong

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

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

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879				
Days From Spud (days)	6	Days on Location (days)	10	End Depth (ftKB)	3,385.0	End Depth (TVD) (ftKB)	3,379.5	Dens Last Mud (lb/gal)	9.40	Rig	PATTERSON - UTI, 220

### Operations Summary

Level Derrick  
Finish tripping in hole  
Drill float equipment f/1905' t/1951'  
Rig Service  
Started int @ 1200 hrs 8/8/14. Drld int 1951' to 3385' (1434' @ 82 fph); 18% complete; 86% rot, 14% slgd.

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs  
  
Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate:  
Start Drilling Curve Section;  
Landed Curve:  
Start Drilling Lateral Section;  
TD well @

Rig release:

Last Survey : @ 3281', INC .5.28°, AZM 18.02°  
Projection @ 3353', INC .5.28°, AZM 18.02°

Last Sample @  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 33 hrs  
Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/8/2014 06:00	8/8/2014 09:00	3	UNPLAN	EQUIP	U_RIG	Level derrick. Add shims to drillers side back derrick leg and drillers side front derrick leg. String was still hanging to drillers side front derrick leg. Unable to shim it anymore. No shims on off side to pull out.
8/8/2014 09:00	8/8/2014 10:30	1.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Trip in hole 1089' - 1870'.
8/8/2014 10:30	8/8/2014 11:00	0.5	UNPLAN	EQUIP	U_RIG	Tighten leak on flow line.
8/8/2014 11:00	8/8/2014 12:00	1	INT-CIRC	CIRCULATE	CIRC	Drill float equipment and shoe track. Tagged plug @ 1905 & float collar 1951'.
8/8/2014 12:00	8/8/2014 15:30	3.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 1951' to 2220' (269' @ 77 fph). WOB 35k, 70 rpm, SPP 1550, motor diff 466, 589 GPM, torque 9k.
8/8/2014 15:30	8/8/2014 16:30	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 2220' to 2255' (35' @ 35 fph). 360 MTF, WOB 43k, 0 rpm, SPP 2440, motor diff 419, 807 GPM.
8/8/2014 16:30	8/8/2014 17:00	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 2255' to 2314' (59' @ 118 fph). WOB 45k, 75 rpm, SPP 2400, motor diff 480, 807 GPM, torque 10k.
8/8/2014 17:00	8/8/2014 17:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 2314' to 2349' (35' @ 70 fph). 360 MTF, WOB 32k, 0 rpm, SPP 2350, motor diff 300, 807 GPM.
8/8/2014 17:30	8/8/2014 19:00	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 2349' to 2503' (154' @ 103 fph). WOB 13k, 75 rpm, SPP 2450, motor diff 450, 808 GPM, torque 11k.
8/8/2014 19:00	8/8/2014 19:30	0.5	PLAN	EQUIP	RIGSER	Rig Service
8/8/2014 19:30	8/8/2014 21:00	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 2503' to 2692' (189' @ 126 fph). WOB 15k, 75 rpm, SPP 2400, motor diff 440, 807 GPM, torque 11k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/8/2014 21:00	8/8/2014 21:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 2692' to 2712' (20' @ 40 fph). 170 MTF, WOB 13k, 0 rpm, SPP 2335, motor diff 285, 807 GPM.
8/8/2014 21:30	8/8/2014 22:00	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 2712' to 2787' (75' @ 150 fph). WOB 27k, 75 rpm, SPP 2654, motor diff 488, 807 GPM, torque 12k.
8/8/2014 22:00	8/8/2014 22:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 2787' to 2817' (30' @ 60 fph). 170 MTF, WOB 28k, 0 rpm, SPP 2277, motor diff 190, 807 GPM.
8/8/2014 22:30	8/9/2014 06:00	7.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 2817' to 3385' (568' @ 76 fph). WOB 25k, 75 rpm, SPP 2556, motor diff 420, 807 GPM, torque 8k.

Report #: 11 Daily Operation: 8/9/2014 06:00 - 8/10/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PATTERSON - UTI, 220	
7	11	4,832.0	4,820.0	9.00		

#### Operations Summary

Drld int 3385' to 4832' (1447' @ 62 fph); 36% complete; 87% rot, 13% sldg.  
While sliding we slowed the pumps down to 75/75 and begin displacing the hole with gel mud the calculated strokes was 6893 and 682 bbls.  
Actual displacement took 1200 bbls. and 12,036 strokes. It took 5143 strokes over actual strokes and 518 bbls. over

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate:  
Start Drilling Curve Section;  
Landed Curve:  
Start Drilling Lateral Section;  
TD well @

Rig release:

Last Survey : @ 4603', INC .5.19°, AZM 19.25°  
Projection @ 4675', INC .5.19°, AZM 19.25°

Last Sample @  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 33 hrs  
Freeboard : 4

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/9/2014 06:00	8/9/2014 07:30	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 3385' to 3543' (158' @ 105 fph). WOB 35k, 70 rpm, SPP 2850, motor diff 650, 807 GPM, torque 9k.
8/9/2014 07:30	8/9/2014 08:30	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 3543' to 3578' (35' @ 35 fph). 180 GTF, WOB 30k, SPP 2590, motor diff 250, 807 GPM.
8/9/2014 08:30	8/9/2014 09:00	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 3578' to 3637' (59' @ 118 fph). WOB 40k, 70 rpm, SPP 2650, motor diff 325, 807 GPM, torque 10k.
8/9/2014 09:00	8/9/2014 09:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 3637' to 3652' (15' @ 30 fph). 180 GTF, WOB 26k, SPP 2570, motor diff 270, 807 GPM.
8/9/2014 09:30	8/9/2014 17:30	8	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 3652' to 4203' (551' @ 69 fph). WOB 35k, 70 rpm, SPP 2850, motor diff 650, 807 GPM, torque 8.5k.
8/9/2014 17:30	8/9/2014 18:00	0.5	PLAN	EQUIP	RIGSER	Rig Service
8/9/2014 18:00	8/9/2014 23:00	5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 4203' to 4487' (284' @ 57 fph). WOB 44k, 70 rpm, SPP 2810, motor diff 280, 807 GPM, torque 12k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/9/2014 23:00	8/10/2014 00:30	1.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 4487' to 4517' (30' @ 20 fph). 170 GTF, WOB 22k, 0 rpm, SPP 1934, motor diff 130, 630 GPM.  While sliding we slowed the pumps down to 75/75 and begin displacing the hole with gel mud the calculated strokes was 6893 and 682 bbls. Actual displacement took 1200 bbls. and 12,036 strokes. It took 5143 strokes over actual strokes and 518 bbls. over
8/10/2014 00:30	8/10/2014 06:00	5.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 4517' to 4832' (315' @ 57 fph). WOB 38k, 60 rpm, SPP 2952, motor diff 396, 807 GPM, torque 13k.

Report #: 12 Daily Operation: 8/10/2014 06:00 - 8/11/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
8	12	5,749.0	5,734.2	9.35	PATTERSON - UTI, 220	

### Operations Summary

Drl int 4832' to 5749' (917' @ 40.8 fph); 47% complete; 53% rot, 47% sldg.

Rig Repair; The rig blacked out with bit on bottom.

\*\*\*\*The well has begin flowing @ 55 bbls. per-hour and mud weight is a 9.3+ ppg. The flow is slowing down at report time and there is a trace of H2s at the shakers. Monitor flow and keep mud weight @ 9.3+ as per Jeff Norris\*\*\*\*

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate-

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate:

Start Drilling Curve Section;

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 5642' , INC .246°, AZM 0.09°

Projection @ 5714' , INC .246°, AZM 0.09°

Last Sample @

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 34 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/10/2014 06:00	8/10/2014 07:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 4832' to 4864' (32' @ 32 fph). WOB 44k, 55 rpm, SPP 2790, motor diff 290, 804 GPM, torque 11k.
8/10/2014 07:00	8/10/2014 07:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 4864' to 4892' (28' @ 56 fph). 180 GTF, WOB 40k, SPP 2854, motor diff 347, 804 GPM.
8/10/2014 07:30	8/10/2014 11:00	3.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 4892' to 5147' (255' @ 73 fph). WOB 42k, 65 rpm, SPP 2900, motor diff 350, 804 GPM, torque 12k.
8/10/2014 11:00	8/10/2014 11:30	0.5	PLAN	EQUIP	RIGSER	Rig Service
8/10/2014 11:30	8/10/2014 15:00	3.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 5147' to 5430' (283' @ 81 fph). WOB 40k, 65 rpm, SPP 2800, motor diff 400, 804 GPM, torque 12k.
8/10/2014 15:00	8/10/2014 15:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 5430' to 5445' (15' @ 30 fph). 180 GTF, WOB 43k, SPP 2625, motor diff 350, 804 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/10/2014 15:30	8/10/2014 17:00	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 5445' to 5525' (80' @ 53 fph). WOB 50k, 70 rpm, SPP 2670, motor diff 420, 804 GPM, torque 13k.  ****The well has begin flowing @ 70 bbls. per-hour and the decision was made to bring the mud weight up from 8.9+ to 9.1 ppg. ****
8/10/2014 17:00	8/10/2014 18:00	1	UNPLAN	EQUIP	U_RIG	Rig lost power while bit was on bottom and had to restart generator # 2
8/10/2014 18:00	8/10/2014 20:00	2	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 5525' to 5560' (35' @ 17.5 fph). 180 GTF, WOB 37k, SPP 2514, motor diff 242, 804 GPM.  ****The well has begin flowing @ 70 bbls. per-hour and the decision was made to bring the mud weight up to 9.2 ppg. ****
8/10/2014 20:00	8/10/2014 21:30	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 5560' to 5620' (60' @ 40 fph). WOB 46k, 65 rpm, SPP 2506, motor diff 311, 804 GPM, torque 12k.  ****The well has begin flowing @ 85 bbls. per-hour and the decision was made to bring the mud weight up to 9.3+ ppg. ****
8/10/2014 21:30	8/11/2014 01:30	4	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 5620' to 5655' (35' @ 8.8 fph). 180 GTF, WOB 40k, SPP 2456, motor diff 136, 804 GPM.  ****The well has begin flowing @ 65 bbls. per-hour and mud weight is a 9.3+ ppg. ****
8/11/2014 01:30	8/11/2014 02:30	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 5655' to 5714' (59' @ 59 fph). WOB 35k, 65 rpm, SPP 2656, motor diff 365, 804 GPM, torque 11k.  ****The well has begin flowing @ 65 bbls. per-hour and mud weight is a 9.3+ ppg. ****
8/11/2014 02:30	8/11/2014 06:00	3.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 5714' to 5749' (35' @ 10 fph). 180 GTF, WOB 17k, SPP 2463, motor diff 148, 804 GPM.  ****The well has begin flowing @ 55 bbls. per-hour and mud weight is a 9.3+ ppg. The flow is slowing down at report time and there is a trace of H2s at the shakers. Monitor flow and keep mud weight @ 9.3+ as per Jeff Norris****

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 13 Daily Operation: 8/11/2014 06:00 - 8/12/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879				
Days From Spud (days)	9	Days on Location (days)	13	End Depth (ftKB)	6,846.0	End Depth (TVD) (ftKB)	6,830.7	Dens Last Mud (lb/gal)	9.40	Rig	PATTERSON - UTI, 220

### Operations Summary

Drid int 5749' to 6846' (1097' @ 51 fph); 61% complete; 86% rot, 14% sldg.  
Rig Repair; Change out swabs on # 2 mud pump

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate:  
Start Drilling Curve Section;  
Landed Curve:  
Start Drilling Lateral Section;  
TD well @

Rig release:

Last Survey : @ 6586', INC 1.32°, AZM 276.68°  
Projection @ 6658', INC 1.32°, AZM 276.68°

Last Sample @  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 36.5 hrs  
Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/11/2014 06:00	8/11/2014 15:00	9	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 5749' to 6376' (627' @ 70 fph). WOB 40k, 65 rpm, SPP 3029, motor diff 530, 756 GPM, torque 14k.
8/11/2014 15:00	8/11/2014 17:00	2	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 6376' to 6396' (20' @ 10 fph). 116 MTF, WOB 25k, SPP 2519, motor diff 157, 740 GPM.
8/11/2014 17:00	8/11/2014 19:30	2.5	UNPLAN	EQUIP	U_RIG	Work on # 2 pump change # 2 swab and fix liner washer and change out # 3 swab on same pump. Air pump out And put pump back online return back to drilling
8/11/2014 19:30	8/11/2014 20:30	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 6396' to 6411' (15' @ 15 fph). 120 MTF, WOB 25k, SPP 2550, motor diff 205, 740 GPM.
8/11/2014 20:30	8/12/2014 06:00	9.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 6411' to 6846' (435' @ 45.8 fph). WOB 41k, 60 rpm, SPP 2735, motor diff 280, 740 GPM, torque 14k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 14 Daily Operation: 8/12/2014 06:00 - 8/13/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
10	14	6,930.0	6,914.7	9.40	PATTERSON - UTI, 220	

### Operations Summary

Drld int 6846' to 6930' (84' @ 24 fph); 62% complete.  
Circ. and pre-para to tooh  
trip out hole to 6212'  
back ream f/6212' t/5604'  
Well is flowing and shut well in and pump though choke so could hold back pressure  
we had a balanced mud weight in and out 9.4 ppg. and close choke, orbit valve  
Pull out hole to shoe and attempt to spot a 150 bbl. pill 2 pounds over  
Wait on barite to arrive because the barite bulk ran out and out of sack barite also  
Barite arrive finished mixing pill and spot pill with 420 stks. the well is static.  
Trip out of hole

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate:  
Start Drilling Curve Section;  
Landed Curve:  
Start Drilling Lateral Section;  
TD well @

Rig release:

Last Survey : @ 6586', INC 1.32°, AZM 276.68°  
Projection @ 6658', INC .1.32°, AZM 276.68°

Last Sample @  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 36.5 hrs  
Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/12/2014 06:00	8/12/2014 09:30	3.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 6846' to 6930' (84' @ 24 fph). WOB 46k, 60 rpm, SPP 2850, motor diff 262, 739 GPM, torque 8k. Pump 2 sweeps 80 vis.
8/12/2014 09:30	8/12/2014 10:30	1	INT-CIRC	CIRCULATE	CIRC	Finish circulating sweeps out of hole, shakers clean.
8/12/2014 10:30	8/12/2014 15:00	4.5	INT-TRIP	TOOH	TRIP	Trip out of hole, hole not taking proper fill. Back Ream 6212' - 6086', 6022' - 5990, 5809' - 5604'. Pull on elevators 5604' - 4471', hole not taking any fluid with orbit valve shut and trip tank on hole.
8/12/2014 15:00	8/12/2014 18:30	3.5	INT-CIRC	CIRCULATE	CIRC	Leave orbit valve shut open HCR, 60 psi on annulus. Circulate through choke at 60 SPM 252 GPM, maintain 60-80 PSI on choke. Dump 313 BBLs water weighing 9.0 - 9.5 with contaminated muddy water. MW in and out 9.4.
8/12/2014 18:30	8/12/2014 21:30	3	INT-TRIP	TOOH	TRIP	Trip out of hole and leave orbit valve, choke closed to hold pressure on the back side fill every stand. The hole was taking 1/2 bbl. a stand and proper displacement is 2.3 bbls. per stand of wet pipe. There was 60 psi. on the csg. guage.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/12/2014 21:30	8/13/2014 03:30	6	UNPLAN	OTHR	U_OTR	The mud engineers are not communicating and they had put barite in one bulk tank and the next day changed it and started putting the barite in the other bulk tank and didn't tell us that they changed tanks and did not label them. we have had a hard time getting them out of the house. Start mixing 150 bbl. pill to spot at shoe and perform a flow check to insure the well is not flowing while mixing the pill the wrong bulk bin was used causing the pill to vis up. the Mud Engineer was asked a number of times to come out of his trailer but didn't. We ran out of bulk bar to weight up, sack barite also and called for a truck load of bar to be delivered ASAP. Jeff Norris was contacted and was told of the issue with (Anchor) Personell on location. The bulk bar arrived and we finish weighting up and spotted a 166 bbl. 11.5 ppg. pill and checked for flow there was no flow open orbit valve begin pulling out of hole.
8/13/2014 03:30	8/13/2014 06:00	2.5	INT-TRIP	TOOH	TRIP	Trip out of hole @ 100' to pick up new DDR tools

### Report #: 15 Daily Operation: 8/13/2014 06:00 - 8/14/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 11	Days on Location (days) 15	End Depth (ftKB) 6,930.0	End Depth (TVD) (ftKB) 6,914.7	Dens Last Mud (lb/gal) 9.70	Rig PATTERSON - UTI, 220	

#### Operations Summary

Finish Tooh  
Change out DDR tools  
Trip in hole to 4200'  
Circ. @ 4200' to circ. out heavy pill  
Trip in hole to 5323'  
Wash & Ream f/5323' t/6930'  
While Making a connection the well started flowing  
Close choke and hold 80 psi. on csg. guage until well stops flowing while reaming to bottom

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate:  
Start Drilling Curve Section;  
Landed Curve:  
Start Drilling Lateral Section;  
TD well @

Rig release:

Last Survey : @ 6586', INC 1.32°, AZM 276.68°  
Projection @ 6658', INC 1.32°, AZM 276.68°

Last Sample @  
No Accidents, No Incidents or 4 BBL Spill Reported.  
Days Rig Downtime:  
Total Rig Downtime: 36.5 hrs  
Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/13/2014 06:00	8/13/2014 09:00	3	INT-TRIP	TOOH	TRIP	Finish Trip to directional bha.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/13/2014 09:00	8/13/2014 13:00	4	PLAN	EQUIP	BHA	Lay down stabilizer, bit, & motor. Pick up motor and scribe. Attempt to test mwd, good pulses. Vibration was too much to sync. Make up bit.
8/13/2014 13:00	8/13/2014 15:00	2	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Trip in hole with DC's & 1 stand of HWDP.
8/13/2014 15:00	8/13/2014 18:00	3	INT-CIRC	CIRCULATE	CIRC	Test MWD pulser no test change out MWD and retest ( test good )
8/13/2014 18:00	8/13/2014 18:30	0.5	PLAN	EQUIP	RIGSER	Rig Service
8/13/2014 18:30	8/13/2014 23:30	5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Trip in hole f/88' t/4200'
8/13/2014 23:30	8/14/2014 01:30	2	INT-CIRC	CIRCULATE	CIRC	Circ. @ 4200' and circ. out heavy pill and cond. mud
8/14/2014 01:30	8/14/2014 06:00	4.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Tripping in hole f/4200' t/5323' Wash and Ream f/5323' t/6930'  ****The well is flowing while reaming f/ 5750' where the started flowing at and I closed the choke off to 42% and held 70 to 80 psi. of back pressure on formation as discussed with (Jeff Norris) we will stripping in hole to 6930' and assess the well at that point*****

Report #: 16 Daily Operation: 8/14/2014 06:00 - 8/15/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
12	16	8,240.0	8,224.3	9.35	PATTERSON - UTI, 220		

#### Operations Summary

Drl Vertical f/6930' to 8240', (1310' @ 62.38 fph), 82% Complete, 100% Rotate, 0% Slide, 2' B, 21' L CBHT 133°, Plan #5, Mw 9.35, Vis 43, 40% Shale, 60% Limestone, Lost approximately 50bbls @ 7600', mixed and pumped 20bbl LCM pill and regained full returns

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate-

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate:

Start Drilling Curve Section;

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 8096', INC 1.76°, AZM 78.23°, 2' B, 21' L

Projection @ 8159', INC 1.76°, AZM 78.23°

Last Sample @ 8025', 60% Limestone, 40% Shale

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/14/2014 06:00	8/14/2014 10:00	4	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate from 6930' to 7122' (192' @ 48 fph). WOB 25k, 60 rpm, SPP 3000, motor diff 300, 741 GPM, torque 10k.
8/14/2014 10:00	8/14/2014 11:00	1	PLAN	EQUIP	RIGSER	Rig Service
8/14/2014 11:00	8/14/2014 11:30	0.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate from 7122' to 7151' (29' @ 58 fph). WOB 25k, 60 rpm, SPP 3000, motor diff 300, 741 GPM, torque 10k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/14/2014 11:30	8/14/2014 12:30	1	UNPLANNED	Rig-related problems (BOPE, etc)	U_RIG	Circulate with # 2 pump while changing out piston on # 1 pump.
8/14/2014 12:30	8/15/2014 00:30	12	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate from 7151' to 7885' (734' @ 61.17 fph). WOB 28k, 70 rpm, SPP 2700, motor diff 400, 668 GPM, torque 10k.
8/15/2014 00:30	8/15/2014 01:30	1	UNPLAN	EQUIP	U_DIR	L/D Washed out joint of drill pipe
8/15/2014 01:30	8/15/2014 06:00	4.5	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate from 7885' to 8240' (355' @ 78.89 fph). WOB 28k, 70 rpm, SPP 2700, motor diff 400, 668 GPM, torque 10k.

**Report #: 17 Daily Operation: 8/15/2014 06:00 - 8/16/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 13	Days on Location (days) 17	End Depth (ftKB) 8,725.0	End Depth (TVD) (ftKB) 8,709.1	Dens Last Mud (lb/gal) 9.30	Rig PATTERSON - UTI, 220	

#### Operations Summary

Drd Vertical f/8240' to 8725', (485' @ 21.55 fph), 86% Complete, 27% Rotate, 73% Slide, 9' B, 17' L CBHT 133°, Plan #5, Mw 9.3, Vis 38, 30% Shale, 30% Limestone, 40% Sandstone

Lost returns @ 8347', pumped 90bbl LCM sweep and regained full returns

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate-

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate:

Start Drilling Curve Section;

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 8473 ' , INC 1.67°, AZM 129.73°, 9' B, 17' L

Projection @ 8536', INC .1.67°, AZM 129.73°

Last Sample @ 8680', 30% Limestone, 30% Shale, 40% Sandstone

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/15/2014 06:00	8/15/2014 10:00	4	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 8240' to 8299' (59' @ 11.25 fph). 265 MTF, WOB 15k, SPP 2500, motor diff 200, 673 GPM.
8/15/2014 10:00	8/15/2014 11:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8299' to 8347' (48' @ 48 fph). WOB 25k, 70 rpm, SPP 2850, motor diff 300, 673 GPM, torque 12k.
8/15/2014 11:00	8/15/2014 12:00	1	UNPLAN	WLCOND	U_LC	Lost returns, circulate with 1 pump @ 65 spm, regained circulation and pump 90 bbl lcm sweep, circulate @ 628 gpm, full returns.
8/15/2014 12:00	8/15/2014 13:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8347' to 8420 (73' @ 73 fph). WOB 25k, 70 rpm, SPP 2850, motor diff 300, 673 GPM, torque 12k.
8/15/2014 13:00	8/15/2014 13:30	0.5	UNPLAN	EQUIP	U_LPP	Lay down washed out joint, ( leaking on toolface)
8/15/2014 13:30	8/15/2014 14:00	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8420' to 8442 (22' @ 44fph). WOB 25k, 70 rpm, SPP 2850, motor diff 300, 673 GPM, torque 12k.
8/15/2014 14:00	8/15/2014 19:00	5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 8442 to 8486' (44' @ 8.8 fph). 290 MTF, WOB 15k, SPP 2500, motor diff 200, 673 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/15/2014 19:00	8/15/2014 20:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8486' to 8536' (50' @ 50 fph). WOB 20k, 70 rpm, SPP 2350, motor diff 300, 630 GPM, torque 12k.
8/15/2014 20:00	8/16/2014 00:00	4	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 8536' to 8566' (30' @ 7.5 fph). 310 MTF, WOB 15k, SPP 2500, motor diff 150, 630 GPM.
8/16/2014 00:00	8/16/2014 02:30	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8566' to 8694' (128' @ 51.2 fph). WOB 20k, 70 rpm, SPP 2350, motor diff 300, 630 GPM, torque 12k.
8/16/2014 02:30	8/16/2014 06:00	3.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 8694' to 8725' (31' @ 8.86 fph). 360 MTF, WOB 15k, SPP 2500, motor diff 150, 630 GPM.

Report #: 18 Daily Operation: 8/16/2014 06:00 - 8/17/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 14	Days on Location (days) 18	End Depth (ftKB) 9,228.0	End Depth (TVD) (ftKB) 9,211.8	Dens Last Mud (lb/gal) 9.40	Rig PATTERSON - UTI, 220	

#### Operations Summary

Drld Vertical f/8725' to 9228', (503' @ 22.35 fph), 91% Complete, 44% Rotate, 56% Slide, 4' B, 1' L CBHT 133°, Plan #5, Mw 9.4, Vis 38, 70% Shale, 20% Limestone, 10% Sandstone

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate:  
Start Drilling Curve Section;  
Landed Curve:  
Start Drilling Lateral Section;  
TD well @

Rig release:

Last Survey : @ 9039', INC 1.41°, AZM 210.85°, 4' B, 1' L  
Projection @ 9102', INC 1.41°, AZM 210.85°

Last Sample @ 9107', 20% Limestone, 70% Shale, 10% Sandstone  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 37.5 hrs  
Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/16/2014 06:00	8/16/2014 12:00	6	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 8725' to 8764' (39' @ 6.5 fph). 360 MTF, WOB 15k, SPP 2000, motor diff 100, 630 GPM. (Note: well flowing 50 bbls hour while drilling, notified Drlg. Supt. Sergio Marin about issue and decision was to bring mud wt. up to 9.4 ppg from 9.3 ppg. )
8/16/2014 12:00	8/16/2014 13:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8764' to 8806' (42' @ 42 fph). WOB 20k, 70 rpm, SPP 2190, motor diff 350, 630 GPM, torque 10k.
8/16/2014 13:00	8/16/2014 13:30	0.5	UNPLAN	EQUIP	U_LPP	Lay down washed out joint.(toolface)
8/16/2014 13:30	8/16/2014 14:00	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8806' to 8819' (13' @ 26 fph). WOB 20k, 70 rpm, SPP 2190, motor diff 350, 630 GPM, torque 10k.
8/16/2014 14:00	8/16/2014 15:00	1	PLAN	EQUIP	RIGSER	Rig Service
8/16/2014 15:00	8/16/2014 16:00	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 8819' to 8826' (7' @ 7 fph). 14 MTF, WOB 15k, SPP 2000, motor diff 100, 630 GPM.
8/16/2014 16:00	8/16/2014 18:00	2	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8826' to 8914' (88' @ 44 fph). WOB 20k, 70 rpm, SPP 2190, motor diff 200, 630 GPM, torque 10k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/16/2014 18:00	8/16/2014 23:30	5.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 8914' to 8955' (41' @ 7.45 fph). 9 MTF, WOB 15k, SPP 2000, motor diff 100, 630 GPM.
8/16/2014 23:30	8/17/2014 06:00	6.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 8955' to 9228' (273' @ 42 fph). WOB 20k, 75 rpm, SPP 2190, motor diff 400, 630 GPM, torque 10k.

**Report #: 19 Daily Operation: 8/17/2014 06:00 - 8/18/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 15	Days on Location (days) 19	End Depth (ftKB) 9,505.0	End Depth (TVD) (ftKB) 9,488.7	Dens Last Mud (lb/gal) 9.40	Rig PATTERSON - UTI, 220	

#### Operations Summary

Drd Vertical f/9228' to 9505', (277' @ 12.31 fph), 94% Complete, 24% Rotate, 76% Slide, 7' A, 0' L CBHT 133°, Plan #5, Mw 9.4, Vis 38, 90% Shale, 10% Limestone, Well Static

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate:  
Start Drilling Curve Section;  
Landed Curve:  
Start Drilling Lateral Section;  
TD well @

Rig release:

Last Survey : @ 9417', INC 1.93°, AZM 203.03°, 4' B, 1' L  
Projection @ 9480', INC 1.93°, AZM 203.03°

Last Sample @ 9485', 10% Limestone, 90% Shale  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 37.5 hrs  
Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/17/2014 06:00	8/17/2014 08:30	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 9228' to 9291' (63' @ 25.2 fph). WOB 18k, 75 rpm, SPP 2200, motor diff 200, 630 GPM, torque 10k.
8/17/2014 08:30	8/17/2014 15:00	6.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 9291' to 9331' (40' @ 6.6 fph). 30 MTF, WOB 15k, SPP 2000, motor diff 100, 630 GPM.
8/17/2014 15:00	8/17/2014 16:30	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 9331' to 9384' (53' @ 35.33 fph). WOB 18k, 75 rpm, SPP 2200, motor diff 200, 630 GPM, torque 10k.
8/17/2014 16:30	8/17/2014 17:00	0.5	PLAN	EQUIP	RIGSER	Routine Rig Service
8/17/2014 17:00	8/18/2014 00:00	7	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 9384' to 9430' (46' @ 6.57 fph). 30 MTF, WOB 15k, SPP 2000, motor diff 100, 630 GPM.
8/18/2014 00:00	8/18/2014 01:30	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 9430' to 9480' (50' @ 33.33 fph). WOB 20k, 75 rpm, SPP 2200, motor diff 200, 708 GPM, torque 10k.
8/18/2014 01:30	8/18/2014 02:30	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 9480' to 9485' (5' @ 5 fph). 23 MTF, WOB 15k, SPP 2000, motor diff 100, 708 GPM.
8/18/2014 02:30	8/18/2014 03:30	1	UNPLAN	EQUIP	U_RIG	C/O Swab on #1 pump
8/18/2014 03:30	8/18/2014 06:00	2.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide from 9485' to 9505' (20' @ 8 fph). 23 MTF, WOB 15k, SPP 2000, motor diff 100, 708 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 20 Daily Operation: 8/18/2014 06:00 - 8/19/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
16	20	10,047.0	10,029.8	9.40	PATTERSON - UTI, 220			

Operations Summary  
Drid Vertical f/9505' to 10,047' TD Intermediate @ 0300hrs on 8/19/2014, (542' @ 28.53 fph), Well flowing on average 90 bbls/hr, 100% Complete, 100% Rotate, 0% Slide, 36' A, 3' R CBHT 133°, Plan #5, Mw 9.4, Vis 39, 50% Shale, 50% Limestone, Pump (2) high Vis sweeps to clean hole and circulate, Close orbit valve and monitor casing pressure before pumping slug, pump slug, begin stripping out of hole

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate-  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate: 8/19/2014 @ 0300 hrs  
Start Drilling Curve Section;  
Landed Curve:  
Start Drilling Lateral Section;  
TD well @

Rig release:

Last Survey : @ 9984', INC 3.52°, AZM 194.59°, 36' A, 3' R  
Projection @ 10047', INC .3.52°, AZM 194.59°

Last Sample @ 10047', 50% Limestone, 50% Shale  
No Accidents, No Incidents or Spills Reported.  
Days Rig Downtime:  
Total Rig Downtime: 37.5 hrs  
Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/18/2014 06:00	8/18/2014 07:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 9501' to 9515' (10' @ 10 fph). WOB 20k, 70 rpm, SPP 2880, motor diff 200, 711 GPM, torque 11k.
8/18/2014 07:00	8/18/2014 07:30	0.5	INT-CIRC	CIRCULATE	CIRC	Circulate with # 2 pump and clean out suction on # 1 pump.
8/18/2014 07:30	8/18/2014 13:00	5.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 9515' to 9669' (154' @ 28.0 fph). WOB 20k, 70 rpm, SPP 2880, motor diff 200, 711 GPM, torque 11k.
8/18/2014 13:00	8/18/2014 13:30	0.5	PLAN	EQUIP	RIGSER	Rig Service
8/18/2014 13:30	8/18/2014 16:30	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 9669' to 9764' (95' @ 31.67 fph). WOB 25k, 70 rpm, SPP 2880, motor diff 200, 711 GPM, torque 11k.
8/18/2014 16:30	8/18/2014 17:00	0.5	UNPLAN	EQUIP	U_LPP	L/D Washed out joint of drill pipe
8/18/2014 17:00	8/18/2014 21:00	4	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 9764' to 9884' (120' @ 30 fph). WOB 25k, 70 rpm, SPP 2880, motor diff 200, 711 GPM, torque 11k.
8/18/2014 21:00	8/18/2014 21:30	0.5	UNPLAN	EQUIP	U_LPP	L/D Washed out joint of drill pipe
8/18/2014 21:30	8/19/2014 03:00	5.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate from 9884' to 10,047' TD (163' @ 29.64 fph). WOB 25k, 70 rpm, SPP 2880, motor diff 200, 711 GPM, torque 11k.
8/19/2014 03:00	8/19/2014 05:00	2	INT-CIRC	CIRCULATE	CIRC	Circulate and pump (2) 80vis sweeps to clean hole
8/19/2014 05:00	8/19/2014 05:30	0.5	PLAN	DRLG	STRIP	Kill pumps, close orbit valve, open HCR and monitor casing pressure before pumping slug
8/19/2014 05:30	8/19/2014 06:00	0.5	INT-CIRC	CIRCULATE	CIRC	Build and pump slug

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 21 Daily Operation: 8/19/2014 06:00 - 8/20/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
17	21	10,047.0	10,029.8	9.40	PATTERSON - UTI, 220	

### Operations Summary

Continue monitoring casing pressure, No pressure on Annulus so continue stripping out of hole working through tight spots @ 8709', 8545', 5813', 5707', 5642', 5574', 4835', 4519', 2980', 2920', to 1948', C/O Saver sub on Topdrive, Trip in hole relieving casing pressure through choke f/1948 to 10,047' and taking returns through gas buster, pumped (2) 50bbl high vis LCM sweeps to clean hole, Circulate and condition mud to a 9.5 to kill saltwater influx, Lost returns, mix and pump 20 lb/bbl LCM pill and regain full returns, Circulating with 9.3/36 vis and no salt water influx, begin TOOH

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate-

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section;

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 9984', INC 3.52°, AZM 194.59°, 36' A, 3' R

Projection @ 10047', INC .3.52°, AZM 194.59°

Last Sample @ 10047', 50% Limestone, 50% Shale

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/19/2014 06:00	8/19/2014 13:00	7	INT-TRIP	TOOH	TRIP	Check flow, well flowing, shut in well, 0 pressure on annulus, open well and pump slug, strip out of hole from 10,047' to 1,948'
8/19/2014 13:00	8/19/2014 15:30	2.5	UNPLAN	EQUIP	U_RIG	Open well and check for flow, well flowing, shut in well and monitor pressure, change out savers sub on top drive, 0 pressure on annulus while changing out sub.
8/19/2014 15:30	8/19/2014 22:00	6.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH f/1948' to 10,047'
8/19/2014 22:00	8/20/2014 01:00	3	INT-CIRC	CIRCULATE	CIRC	Circulate and condition mud, weighted up 9.5 to kill salt water influx, lost returns
8/20/2014 01:00	8/20/2014 02:30	1.5	UNPLAN	WLCOND	U_LC	Built 20 lb/bbl LCM pill in slugging tank and conditioned 500 bbls of mud to 9.3 and 40 vis in frac tank for volume
8/20/2014 02:30	8/20/2014 05:00	2.5	INT-CIRC	CIRCULATE	CIRC	Pumped 20 lb/bbl LCM pill and regained full returns, circulating with 9.3/36 vis and no salt water influx
8/20/2014 05:00	8/20/2014 06:00	1	INT-TRIP	TOOH	TRIP	TOOH f/10,047' to 9500'



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 22 Daily Operation: 8/20/2014 06:00 - 8/21/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
18	22	10,047.0	10,029.8	9.30	PATTERSON - UTI, 220	

### Operations Summary

Strip out of hole f/9500' to 2024', Circulate and condition mud and spot 10.2ppg pill at casing shoe to kill salt water influx, finish TOO H and L/D 8" collars and directional tools, pull wear bushing, remove elevators and bails and rig up casing bails, rig up casing crew and hold PJSM, M/U (2) joint shoe trac and test float equipment, run 9 5/8ths casing f/0' to 326', shut down and wait on back up Spider f/Express Energy, R/D bad Spider and R/U good Spider, continue running casing f/326' to 2450', well still flowing, transferring salt water f/trip tank out into reserve

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section;

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 9984', INC 3.52°, AZM 194.59°, 36' A, 3' R

Projection @ 10047', INC .3.52°, AZM 194.59°

Last Sample @ 10047', 50% Limestone, 50% Shale

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/20/2014 06:00	8/20/2014 11:00	5	INT-TRIP	TOOH	TRIP	TOOH from 5,500' to 1951'
8/20/2014 11:00	8/20/2014 12:00	1	INT-CIRC	CIRCULATE	CIRC	Check flow at casing shoe, well flowing 1.0 bbls/min., shut in well monitor annulus pressure, 30 psi max pressure on annulus, pump and spot 80 bbls of 10.6 ppg weighted pill @ shoe, 31 psi difference in hydrostatic pressure @ surface casing shoe. check flow, well static.
8/20/2014 12:00	8/20/2014 14:30	2.5	INT-TRIP	TOOH	TRIP	TOOH from 1,951' to 269' (Remove rotating head)
8/20/2014 14:30	8/20/2014 16:30	2	PLAN	EQUIP	BHA	Lay down intermediate hole section BHA & DD Assembly
8/20/2014 16:30	8/20/2014 17:00	0.5	PLANNED	INSTALL/REMOVE/IN SPECT WEARBUSHING	WEARBU SHING	Pull wear bushing
8/20/2014 17:00	8/20/2014 18:00	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	Install casing bails
8/20/2014 18:00	8/20/2014 18:30	0.5	PRESTIM	NONOPS	SAFETY	Hold pre job safety meeting w/casing crew and all other personnell on location
8/20/2014 18:30	8/20/2014 21:00	2.5	PLAN	DRLG	CSG	R/U Casing Crew
8/20/2014 21:00	8/20/2014 23:00	2	PLAN	DRLG	CSG	M/U Shoe trac and test float equipment, run casing f/0' to 326'
8/20/2014 23:00	8/21/2014 02:00	3	UNPLAN	OTHR	U_OTR	R/D bad Spider and Wait on new Spider f/Express Energy
8/21/2014 02:00	8/21/2014 06:00	4	PLAN	DRLG	CSG	Run intermediate casing f/326' to 2450'



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 23 Daily Operation: 8/21/2014 06:00 - 8/22/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
19	23	10,047.0	10,029.8	9.30	PATTERSON - UTI, 220		

### Operations Summary

Continue running 9 5/8ths intermediate casing f/2450' to 10,036', P/U (1) joint of casing and tag bottom, P/U landing joint and land same, circulate bottoms up (5800 strokes), R/D Casing crew and CRT, R/U Cementers and hold PJSM, pressure test lines and start pumping 50 bbl water spacer, lost returns while pumping 70 bbl mud push, regained partial returns while pumping lead cement and then transmission on pump truck went down 25 bbls into 10.69 ppg lead cement, switch over to rig pump and circulate out cement to reserve while waiting on new pump truck, R/U new pump truck and continue pumping 302 bbls of 10.69 ppg lead cement and 12.5 ppg tail cement

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section;

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 9984', INC 3.52°, AZM 194.59°, 36' A, 3' R  
Projection @ 10047', INC .3.52°, AZM 194.59°

Last Sample @ 10047', 50% Limestone, 50% Shale

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/21/2014 06:00	8/21/2014 20:30	14.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Continue to run 9 5/8" casing from 2,450' to 10,036', fill up casing every 30 joints.
8/21/2014 20:30	8/21/2014 22:00	1.5	INT-CIRC	CIRCULATE	CIRC	Circulate casing and R/D casing crew and CRT
8/21/2014 22:00	8/21/2014 23:30	1.5	PLAN	DRLG	CMTPRI	R/U Cementers, hold pre job safety meeting w/cementers and all personnel on location.
8/21/2014 23:30	8/22/2014 01:00	1.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Pressure test lines and pump 50 bbl spacer, pump 70 bbl mud push and lost returns, continue pumping w/partial returns, 25 bbls into lead slurry Schlumberger pump truck with down due to transmission issues
8/22/2014 01:00	8/22/2014 04:00	3	UNPLAN	PERS	U_CMTRS	Downtime related to waiting on new pump truck, circulating out cement out of hole with rig pump while waiting on new truck
8/22/2014 04:00	8/22/2014 06:00	2	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Continue pumping 302 bbls of 10.69 ppg lead cement and 62 bbls of 12.5 ppg tail cement

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 24 Daily Operation: 8/22/2014 06:00 - 8/23/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
20	24	10,047.0	10,029.8	9.40	PATTERSON - UTI, 220	

### Operations Summary

Continue pumping 1st stage cement, 835 sks, 277 bbls of 10.69 ppg lead cement and 215 sks, 62 bbls of 12.5 ppg tail cement, drop plug and displace with 740 bbls WBM, bump plug with 500 # over FCP-368 psi, bump plug with 868 #. held pressure for 5 min., bleed off pressure 5 bbls returned to pump truck floats not holding, pump 5 bbls back into casing, and hold pressure for 5 min., release pressure 5 bbls returned back to truck, floats not holding, shut in casing valve, Notified Drlg. Supt. Sergio Marin and Drlg. Engineer Jorge Morales about issue and decision was to bleed off pressure, drop the DV Tool Bomb, re-apply pressure up to 150 psi for 30 min., bleed off pressure, and pressure back up to 500 psi and open circulating ports on DV Tool. Circulate @ 40 spm with full returns, dumped 70 bbls cement, no mud losses while circulating, held PJSM w/all personnel, shut off rig pump, swap out valves on rig floor and test lines to 5000 psi (ok), pump 2nd stage cement, 90 bbls visc spacer, 1442 sks, 521 bbls lead cement @ 10.69 ppg, 205 sks, 62 bbls tail cement @ 12.5 ppg, drop closing plug and displace cement with 508.8 bbls WBM, bump plug 470 psi to bump @ 1648hrs on 8/22/2014, floats held got 2.5 bbls back, R/D Cementers while making up Seaboard Pack Off and Running Tool, land tool and pack off to 8000 psi and test to 5000 psi and hold for 10 minutes, lay down landing joint & L/D Casing Bails and Elevators, Install Wear Bushing, P/U and Strap Dumb, Iron Assembly, TIH w/Dumb iron assembly,

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section;

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 9984', INC 3.52°, AZM 194.59°, 36' A, 3' R

Projection @ 10047', INC .3.52°, AZM 194.59°

Last Sample @ 10047', 50% Limestone, 50% Shale

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/22/2014 06:00	8/22/2014 08:00	2	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Continue pumping 1st stage cement, 835 sks, 277 bbls of 10.69 ppg lead cement, yield 2.03 ft3/sk, mix water 7.32 gal/sk and 215 sks, 62 bbls of 12.5 ppg tail cement, yield 1.63 ft3/sk, mix water 8.77 gal/sk, drop plug and displace with 740 bbls WBM, bump plug with 500 # over FCP-368 psi, bump plug with 868 #. held pressure for 5 min., bleed off pressure 5 bbls returned to pump truck floats not holding, pump 5 bbls back into casing, and hold pressure for 5 min., release pressure 5 bbls returned back to truck, floats not holding. shut in casing valve. Note: full returns throughout job.
8/22/2014 08:00	8/22/2014 08:30	0.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Notified Drlg. Supt. Sergio Marin and Drlg. Engineer Jorge Morales about issue and decision was to, bleed off pressure, drop the DV Tool Bomb, re-apply pressure up to 150 psi for 30 min., bleed off pressure, and pressure back up to 500 psi and open circulating ports on DV Tool.
8/22/2014 08:30	8/22/2014 12:30	4	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Circulate @ 40 spm with full returns, dumped 70 bbls cement into resrve pit, no mud losses while circulating.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/22/2014 12:30	8/22/2014 17:00	4.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	PJSM, shut off rig pump, swap out valves on rig floor and test lines to 5000 psi (ok) pump 2nd stage cement, 90 bbls visc spacer, 1442 sks, 521 bbls lead cement @ 10.69 ppg, yield 2.03 ft3/sk, mix water 7.32 gal/sk, 205 sks, 62 bbls tail cement @ 12.5 ppg, yield 1.63 ft3/sk, mix water 8.78 gal/sk, drop closing plug and displace cement with 508.8 bbls WBM. Note: full returns throughout cement job.
8/22/2014 17:00	8/22/2014 21:00	4	PLAN	EQUIP	WLHEAD	Drain stack, well flowing 1/2 bbl/min, Install pack off and land the same, energize pack off to 8000 psi and test to 5000 psi, test ok, N/D landing joint and running tool
8/22/2014 21:00	8/22/2014 22:30	1.5	PLAN	MOB	RDMO	L/D Casing elevators and Bails, R/U Drill pipe elevators and Bails
8/22/2014 22:30	8/22/2014 23:30	1	PROD-1- WEARBUSHING	INSTALL/REMOVE/IN SPECT WEARBUSHING	WEARBU SHING	Install wear bushing
8/22/2014 23:30	8/23/2014 06:00	6.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	M/U Dumb iron assembly and TIH to 6500'

**Report #: 25 Daily Operation: 8/23/2014 06:00 - 8/24/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 21	Days on Location (days) 25	End Depth (ftKB) 10,057.0	End Depth (TVD) (ftKB) 10,039.8	Dens Last Mud (lb/gal) 9.40	Rig PATTERSON - UTI, 220	

#### Operations Summary

Finish TIH w/Dumb Iron to DV Tool and Test Casing, Test casing @ Float, Drill float equipment, Perform FIT to 13ppg, Drop Gyro, TOO H w/Dumb Iron Assembly, P/U and M/U Curve Assembly, TIH and Test motor, Cut and Slip drill line, Cleaned pits, TIH w/ Curve Assembly to 940'

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section;

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 9984', INC 3.52°, AZM 194.59°, 36' A, 3' R

Projection @ 10047', INC .3.52°, AZM 194.59°

Last Sample @ 10047', 50% Limestone, 50% Shale

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/23/2014 06:00	8/23/2014 06:30	0.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Trip in hole from 6,500' to 6,824' (tagged Stage Collar @ 6824') set down on stage collar 50k 3 times to ensure it was closed.
8/23/2014 06:30	8/23/2014 07:30	1	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Fill pipe and break circulation, test casing to 2000 psi (ok)
8/23/2014 07:30	8/23/2014 10:30	3	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Trip in hole from 6,824' to 9,844'

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/23/2014 10:30	8/23/2014 11:00	0.5	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Fill pipe and break circulation, test casing to 2000 psi (ok)
8/23/2014 11:00	8/23/2014 12:30	1.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Drilling cement and float equipment from 9942' to 10,047' ( tag plug @ 9942')
8/23/2014 12:30	8/23/2014 13:30	1	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Drill new formation f/10,047' to 10,057', (10' @ 10' fph)
8/23/2014 13:30	8/23/2014 14:30	1	INT-CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 10,057'
8/23/2014 14:30	8/23/2014 15:00	0.5	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Perform 13.0 ppg FIT @ 10,036' with 9.5 ppg mud @ 1826 psi (good test)
8/23/2014 15:00	8/23/2014 15:30	0.5	INT-CIRC	CIRCULATE	CIRC	Pump slug and drop Gyro
8/23/2014 15:30	8/23/2014 23:30	8	INT-TRIP	TOOH	TRIP	TOOH f/10,057' to 0'
8/23/2014 23:30	8/24/2014 02:30	3	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/Curve assembly and shallow test MWD and Motor
8/24/2014 02:30	8/24/2014 05:30	3	PLAN	DRLG	CUTDL	Slip and cut 120' of drill line
8/24/2014 05:30	8/24/2014 06:00	0.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/curve assembly to 940'

**Report #: 26 Daily Operation: 8/24/2014 06:00 - 8/25/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 22	Days on Location (days) 26	End Depth (ftKB) 10,382.0	End Depth (TVD) (ftKB) 10,346.1	Dens Last Mud (lb/gal) 12.00	Rig PATTERSON - UTI, 220	

#### Operations Summary

Finish TIH w/Curve Assembly, Displace hole w/OBM, Drld Curve f/10,057' to 10,382, (325 @ 32.5 fph), 29% Complete, 20% Rotate, 80% Slide, Plan #6, MW 12.0 ppg, 91 Vis, 80% Shale, 20% Limestone

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 10,274', INC 22.16°, AZM 170.86°, 6' A, 25' R

Projection @ 10382', INC 22.16°, AZM 170.86°

Last Sample @ 10257', 20% Limestone, 80% Shale

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/24/2014 06:00	8/24/2014 09:30	3.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/Curve assembly to 9000'
8/24/2014 09:30	8/24/2014 10:00	0.5	PLAN	EQUIP	BOPS	Install trip nipple w/ rotating head
8/24/2014 10:00	8/24/2014 13:00	3	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH w/ Curve assembly to 10036'
8/24/2014 13:00	8/24/2014 15:00	2	MOBILIZATION	MIRU	MIRU	Prep back yard for OBM transfer
8/24/2014 15:00	8/24/2014 17:00	2	INT-CIRC	CIRCULATE	CIRC	Circulate and transfer OBM over shakers to pits
8/24/2014 17:00	8/24/2014 20:00	3	INT-CIRC	CIRCULATE	CIRC	Displace hole w/OBM, Displace fresh water mud through panic line
8/24/2014 20:00	8/24/2014 23:30	3.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,057' to 10,130' (73' @ 20.9 fph). MTF = HS, WOB 20k, SPP 2550, motor diff 400, 423 GPM.
8/24/2014 23:30	8/25/2014 00:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10130' to 10137' (7' @ 14 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 00:00	8/25/2014 00:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,137' to 10,162' (25' @ 50 fph). MTF = HS, WOB 20k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 00:30	8/25/2014 01:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,162' to 10,172' (10' @ 20 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 01:00	8/25/2014 02:00	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,172' to 10,225' (53' @ 53 fph). MTF 60L, WOB 20k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 02:00	8/25/2014 02:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,225' to 10,235' (10' @ 20 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 02:30	8/25/2014 03:30	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,235' to 10,286' (51' @ 51 fph). MTF 60L, WOB 20k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 03:30	8/25/2014 04:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,286' to 10,296' (10' @ 20 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 04:00	8/25/2014 06:00	2	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,296' to 10,382' (86' @ 43 fph). MTF 60L, WOB 20k, SPP 2550, motor diff 400, 423 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 27 Daily Operation: 8/25/2014 06:00 - 8/26/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
23	27	11,232.0	10,724.4	12.00	PATTERSON - UTI, 220			

### Operations Summary

Drd Curve f/10,382' to 11,232', (850' @ 40.48 fph) , 100% Complete, 50% Rotate, 50% Slide, Plan #6, MW 11.9+ ppg, 78 Vis, 40% Shale, 30% Limestone, 30% Sand, Change out liners on #1 and #2 mud pumps

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve:

Start Drilling Lateral Section;

TD well @

Rig release:

Last Survey : @ 11,232', INC 84.94°, AZM 155.57°, 14' A, 42' R

Projection @ 11169', INC 89.34°, AZM 155.00°

Last Sample @ 11,195', 30% Limestone, 40% Shale, 30% Sand

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/25/2014 06:00	8/25/2014 06:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,382' to 10,414' (32' @ 64 fph). MTF 150HS, WOB 15k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 06:30	8/25/2014 07:00	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 10,414' to 10,422' (8' @ 16 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 07:00	8/25/2014 07:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,422' to 10,446' (24' @ 48 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 07:30	8/25/2014 08:00	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 10,446' to 10,456' (10' @ 20 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 08:00	8/25/2014 08:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,456' to 10,476' (20' @ 40 fph). MTF 30L, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 08:30	8/25/2014 09:00	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 10,476' to 10,486' (10' @ 20 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 09:00	8/25/2014 09:15	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,486' to 10,508' (22' @ 88 fph). MTF 30L, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 09:15	8/25/2014 09:45	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 10,508' to 10,518' (10' @ 20 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 09:45	8/25/2014 10:00	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,518' to 10,540' (22' @ 88 fph). MTF 10L, WOB 13k, SPP 2550, motor diff 400, 423 GPM.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/25/2014 10:00	8/25/2014 10:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,540' to 10,550' (10' @ 20 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 10:30	8/25/2014 11:15	0.75	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,550' to 10,603' (53' @ 79.5 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 11:15	8/25/2014 12:00	0.75	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,603' to 10,611' (8' @ 12 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 12:00	8/25/2014 12:45	0.75	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,611' to 10,634' (23' @ 34.5 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 12:45	8/25/2014 13:00	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,634' to 10,644' (10' @ 25 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 13:00	8/25/2014 13:15	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,644' to 10,665' (21' @ 84 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 13:15	8/25/2014 13:30	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,665' to 10,680' (15' @ 60 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 13:30	8/25/2014 14:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,680' to 10,698' (18' @ 36 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 14:00	8/25/2014 14:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,698' to 10,713' (15' @ 30 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 14:30	8/25/2014 14:45	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,713' to 10,728' (15' @ 60 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 14:45	8/25/2014 15:00	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,728' to 10,744' (16' @ 64 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 15:00	8/25/2014 15:15	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,744' to 10,758' (14' @ 56 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 15:15	8/25/2014 15:30	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,758' to 10,773' (15' @ 60 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 15:30	8/25/2014 15:45	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,773' to 10,791' (18' @ 72 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 15:45	8/25/2014 16:00	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,791' to 10,806' (15' @ 60 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 16:00	8/25/2014 16:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,806' to 10,822' (16' @ 32 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 16:30	8/25/2014 16:45	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,822' to 10,834' (12' @ 48 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 16:45	8/25/2014 17:00	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,834' to 10,858' (24' @ 96 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 17:00	8/25/2014 17:15	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 10,858' to 10,861' (3' @ 12 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 17:15	8/25/2014 17:30	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 10,861' to 10,885' (24' @ 96 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/25/2014 17:30	8/25/2014 17:45	0.25	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 10,885' to 10,891' (6' @ 24 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 17:45	8/25/2014 18:00	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,891' to 10,917' (26' @ 96 fph). MTF HS, WOB 13k, SPP 2550, motor diff 400, 423 GPM.
8/25/2014 18:00	8/25/2014 18:15	0.25	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 10,917' to 10,922' (5' @ 20 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 423 GPM, torque 8k.
8/25/2014 18:15	8/25/2014 19:00	0.75	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,922' to 10,947' (25' @ 37.5 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/25/2014 19:00	8/25/2014 19:15	0.25	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 10,947' to 10,955' (8' @ 24 fph). WOB 25k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 8k.
8/25/2014 19:15	8/25/2014 19:45	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,955' to 10,980' (25' @ 50 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/25/2014 19:45	8/25/2014 20:00	0.25	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 10,980' to 10,995' (15' @ 60 fph). WOB 25k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 8k.
8/25/2014 20:00	8/25/2014 20:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 10,995' to 11,012' (17' @ 34 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/25/2014 20:30	8/25/2014 20:45	0.25	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 11,012' to 11,027' (15' @ 60 fph). WOB 25k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 8k.
8/25/2014 20:45	8/25/2014 21:00	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 11,027' to 11,042' (15' @ 60 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/25/2014 21:00	8/25/2014 21:30	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 11,042' to 11,062' (20' @ 40 fph). WOB 25k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 8k.
8/25/2014 21:30	8/25/2014 22:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 11,062' to 11,075' (13' @ 60 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/25/2014 22:00	8/25/2014 22:30	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 11,075' to 11,095' (20' @ 40 fph). WOB 25k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 8k.
8/25/2014 22:30	8/25/2014 22:45	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 11,095' to 11,107' (12' @ 48 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/25/2014 22:45	8/25/2014 23:30	0.75	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 11,107' to 11,132' (25' @ 37.5 fph). WOB 25k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 8k.
8/25/2014 23:30	8/26/2014 00:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 11,132' to 11,137' (5' @ 10 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/26/2014 00:00	8/26/2014 00:30	0.5	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 11,137' to 11,157' (20' @ 40 fph). WOB 25k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 8k.
8/26/2014 00:30	8/26/2014 01:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 11,157' to 11,170' (13' @ 26 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/26/2014 01:00	8/26/2014 02:00	1	PROD-DRILL CURVE	DRILL CURVE- ROTATE	DRL CURVE- ROT	Rotate from 11,170' to 11,195' (25' @ 25 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 424 GPM, torque 7k.
8/26/2014 02:00	8/26/2014 05:00	3	UNPLAN	EQUIP	U_RIG	Change out liner on #1 and #2 mud pump, caused interference issue with mwd
8/26/2014 05:00	8/26/2014 05:15	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE- SLIDE	Slide from 11,195' to 11,200' (5' @ 20 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/26/2014 05:15	8/26/2014 05:45	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 11,200' to 11,225' (25' @ 50 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 424 GPM, torque 7k.
8/26/2014 05:45	8/26/2014 06:00	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 11,225' to 11,228' (3' @ 12 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.

**Report #: 28 Daily Operation: 8/26/2014 06:00 - 8/27/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 24	Days on Location (days) 28	End Depth (ftKB) 11,411.0	End Depth (TVD) (ftKB) 10,719.8	Dens Last Mud (lb/gal) 12.10	Rig PATTERSON - UTI, 220	

#### Operations Summary

Drl Curve f/11,232' to 11,411', (179' @ 32.5 fph) , Curve100% Complete, 50% Rotate, 50% Slide, Drl Lateral 5% Complete, 52% Slide, 48% RotatePlan #6, MW 12.1 ppg, 75 Vis, 40% Shale, 30% Limestone, 30% Sand, Landed curve @ 11,312' MD and 10,724' TVD, Mix and pump slug, TOOH f/MWD and Lateral Assembly, C/O 2" kill valve on stack, Begin testing BOP's

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 11,312', INC 93.74°, AZM 156.89°, 20' A, 34' R  
Projection @ 11,357', INC 93.74°, AZM 156.89°

Last Sample @ 11,195', 30% Limestone, 40% Shale, 30% Sand

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/26/2014 06:00	8/26/2014 07:00	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 11,228' to 11,232' (4' @ 4 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/26/2014 07:00	8/26/2014 07:15	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 11,232' to 11,253' (21' @ 84 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 424 GPM, torque 7k.
8/26/2014 07:15	8/26/2014 07:30	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 11,253' to 11,264' (11' @ 44 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/26/2014 07:30	8/26/2014 08:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	Rotate from 11,264' to 11,294' (30' @ 60 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 424 GPM, torque 7k.
8/26/2014 08:00	8/26/2014 08:45	0.75	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 11,294' to 11,315' (21' @ 84 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/26/2014 08:45	8/26/2014 09:00	0.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11,315' to 11,336' (21' @ 84 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 7k.
8/26/2014 09:00	8/26/2014 10:00	1	UNPLAN	EQUIP	U_DIR	Trouble shoot MWD

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/26/2014 10:00	8/26/2014 10:45	0.75	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11,336' to 11,357' (21' @ 28 fph). WOB 15k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 7k.
8/26/2014 10:45	8/26/2014 11:00	0.25	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 11,357' to 11,369' (12' @ 48 fph). MTF HS, WOB 25k, SPP 2550, motor diff 400, 545 GPM.
8/26/2014 11:00	8/26/2014 11:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11,369' to 11,389' (20' @ 40 fph). WOB 22k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 7k.
8/26/2014 11:30	8/26/2014 12:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 11,389' to 11,398' (9' @ 18 fph). MTF HS, WOB 22k, SPP 2550, motor diff 400, 545 GPM.
8/26/2014 12:00	8/26/2014 12:30	0.5	PLAN	DRLG	DEVSUR	Re Log Gamma f/11,369' to 11,398'
8/26/2014 12:30	8/26/2014 13:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11,398' to 11,411' (13' @ 26 fph). WOB 22k, 50 rpm, SPP 2500, motor diff 300, 545 GPM, torque 7k.
8/26/2014 13:00	8/26/2014 13:30	0.5	UNPLAN	EQUIP	U_DIR	Trouble shoot MWD
8/26/2014 13:30	8/26/2014 15:00	1.5	PROD-CIRC	CIRCULATE	CIRC	Circulate and condition mud, mix and pump slug, TOO H f/lateral assembly, possible MWD failure
8/26/2014 15:00	8/26/2014 22:30	7.5	PROD-TRIP	TRIP	TRIP	TOOH f/11,411' to 0', L/D Directional Tools
8/26/2014 22:30	8/27/2014 02:30	4	UNPLAN	EQUIP	U_RIG	Change out 2" kill valve on stack
8/27/2014 02:30	8/27/2014 04:00	1.5	PROD-1-WEARBUSHING	INSTALL/REMOVE/IN SPECT WEARBUSHING	WEARBU SHING	Pull Wear Bushing and R/U BOP testers
8/27/2014 04:00	8/27/2014 06:00	2	INT-TST CSG/DO/FIT	TEST CSG/DRILL OUT/FIT	TEST CSG/DRI LL OUT/FIT	Testing BOP's

### Report #: 29 Daily Operation: 8/27/2014 06:00 - 8/28/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
25	29	11,749.0	10,710.8	12.10	PATTERSON - UTI, 220		

#### Operations Summary

Finish Testing BOP's, P/U and M/U lateral assembly, TIH w/lateral assembly, Drld lateral f/11,411' to 11,749', (338' @ 35.6 fph), 7% Complete, 89% Rotate, 11% Slide, Plan #6, MW 12.0, 81 Vis, 30% Shale, 20% Limestone, 50% Sandstone

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 11,564', INC 91.98°, AZM 155.31°, 19' A, 10' R  
Projection @ 11,608', INC 91.98°, AZM 155.31°

Last Sample @ 11,619', 20% Limestone, 30% Shale, 50% Sand

No Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/27/2014 06:00	8/27/2014 09:30	3.5	PROD-NU/TEST	NIPPLE UP/TEST	NU/TEST	Finish testing- Upper pipe rams, kill side manuals, blinds and super choke 250psi low, 2500psi high, Hydril 250psi low 1500psi high
8/27/2014 09:30	8/27/2014 10:00	0.5	PROD-1-WEARBUSHING	INSTALL/REMOVE/INSPECT WEARBUSHING	WEARBU SHING	Install wear bushing
8/27/2014 10:00	8/27/2014 10:30	0.5	PROD1-RIGSERVICE	RIGSEV	RIGSER	Rig Service
8/27/2014 10:30	8/27/2014 13:30	3	PLAN	EQUIP	BHA	M/U Lateral assembly, (motor, pulsar sub, NMDC, MWD, NMFC, X/O), Test mwd and motor
8/27/2014 13:30	8/27/2014 20:30	7	PROD-TRIP	TRIP	TRIP	TIH w/Lateral assembly f/O' to 11,411'
8/27/2014 20:30	8/28/2014 02:30	6	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11,411' to 11,608' (197' @ 32.8 fph). WOB 22k, 70 rpm, SPP 3780, motor diff 200, 545 GPM, torque 7k.
8/28/2014 02:30	8/28/2014 03:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 11,608' to 11,628' (20' @ 20 fph). MTF 180, WOB 22k, SPP 3600, motor diff 400, 545 GPM.
8/28/2014 03:30	8/28/2014 06:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11,628' to 11,749' (121' @ 48.4 fph). WOB 15k, 70 rpm, SPP 3780, motor diff 200, 545 GPM, torque 7k.

**Report #: 30 Daily Operation: 8/28/2014 06:00 - 8/29/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 26	Days on Location (days) 30	End Depth (ftKB) 12,483.0	End Depth (TVD) (ftKB) 10,685.6	Dens Last Mud (lb/gal) 12.00	Rig PATTERSON - UTI, 220	

#### Operations Summary

Drld lateral 11749' to 12483' (734' @ 31.9 fph); 13% complete; 70% rot, 30% sldg; 5' left, 3' high; CBHT 178 F; plan #7.

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate: 8/19/2014 @ 0300 hrs  
Start Drilling Curve Section; 8/24/2014 @ 2000 hrs  
Landed Curve: 8/26/2014 @ 0900 hrs  
Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs  
TD well @

Rig release:

Last Survey : @ 12320', INC 91.23°, AZM 168.84°, 3' A, 5' L  
Projection @ 11,364', INC 91.23°, AZM 168.84°

Last Sample @ 11,619', 20% Limestone60% Shale, 20% Sand  
1 Accidents, No Incidents or Spills Reported.

Days Rig Downtime:  
Total Rig Downtime: 37.5 hrs  
Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/28/2014 06:00	8/28/2014 09:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11749' to 11797' (48' @ 16 fph). WOB 7k, 70 rpm, SPP 3560, motor diff 180, 521 GPM, torque 7k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/28/2014 09:00	8/28/2014 10:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 11797' to 11824' (27' @ 27 fph). 100R GTF, WOB 16k, 0 rpm, SPP 3603, motor diff 180, 521 GPM.
8/28/2014 10:00	8/28/2014 11:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11824' to 11893' (69' @ 69 fph). WOB 12k, 70 rpm, SPP 3564, motor diff 190, 521 GPM, torque 9k.
8/28/2014 11:30	8/28/2014 12:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 11893' to 11917' (24' @ 24 fph). 100R GTF, WOB 19k, 0 rpm, SPP 3620, motor diff 200, 521 GPM.
8/28/2014 12:00	8/28/2014 13:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 11917' to 11986' (69' @ 46 fph). WOB 11k, 70 rpm, SPP 3700, motor diff 241, 521 GPM, torque 8k.
8/28/2014 13:30	8/28/2014 14:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 11986' to 12006' (20' @ 20 fph). 100R GTF, WOB 25k, 0 rpm, SPP 3663, motor diff 230, 521 GPM.
8/28/2014 14:30	8/28/2014 16:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12006' to 12081' (75' @ 75 fph). WOB 15k, 70 rpm, SPP 3760, motor diff 318, 521 GPM, torque 10k.
8/28/2014 16:00	8/28/2014 17:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 12081' to 12106' (25' @ 25 fph). 100R GTF, WOB 32k, 0 rpm, SPP 3807, motor diff 316, 521 GPM.
8/28/2014 17:00	8/28/2014 18:00	1	PLAN	EQUIP	RIGSER	Rig Service
8/28/2014 18:00	8/28/2014 19:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12106' to 12175' (69' @ 69 fph). WOB 25k, 70 rpm, SPP 3940, motor diff 445, 521 GPM, torque 10k.
8/28/2014 19:00	8/28/2014 20:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 12175' to 12200' (25' @ 25 fph). 100R GTF, WOB 22k, 0 rpm, SPP 3675, motor diff 180, 521 GPM.
8/28/2014 20:00	8/28/2014 22:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12200' to 12270' (70' @ 28 fph). WOB 10k, 70 rpm, SPP 3780, motor diff 210, 521 GPM, torque 10k.
8/28/2014 22:30	8/28/2014 23:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 12270' to 12290' (20' @ 20 fph). 100R GTF, WOB 28k, 0 rpm, SPP 3820, motor diff 331, 521 GPM.
8/28/2014 23:30	8/29/2014 02:30	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12290' to 12397' (107' @ 35.7 fph). WOB 24k, 70 rpm, SPP 3700, motor diff 140, 521 GPM, torque 9k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/29/2014 02:30	8/29/2014 03:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 12397' to 12407' (10' @ 20 fph). 180 GTF, WOB 24k, 0 rpm, SPP 3740, motor diff 138, 521 GPM.
8/29/2014 03:00	8/29/2014 05:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12407' to 12458' (51' @ 25.5 fph). WOB 10k, 70 rpm, SPP 3760, motor diff 170, 521 GPM, torque 10k.
8/29/2014 05:00	8/29/2014 06:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 12458' to 12483' (25' @ 25 fph). 180 GTF, WOB 23k, 0 rpm, SPP 3750, motor diff 140, 521 GPM.

**Report #: 31 Daily Operation: 8/29/2014 06:00 - 8/30/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days On Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
27	31	13,243.0	10,679.6	12.50	PATTERSON - UTI, 220	

#### Operations Summary

Drl lateral 12483' to 13243' (760' @ 32.3 fph); 22% complete; 81% rot, 19% sldg; 2' left, 0' low; CBHT 185 F; plan #7.

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 13167', INC 90.92°, AZM 165.68°, 0' A, 2' L  
Projection @ 13,211', INC 90.92°, AZM 165.68°

Last Sample @ 13,134', 20% Limestone70% Shale, 10% Sand

1 Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/29/2014 06:00	8/29/2014 07:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12483' to 12521' (38' @ 38 fph). WOB 7k, 70 rpm, SPP 3820, motor diff 192, 521 GPM, torque 8k.
8/29/2014 07:00	8/29/2014 08:30	1.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	Slide from 12521' to 12536' (15' @ 10 fph). 150L GTF, WOB 18k, 0 rpm, SPP 2870, motor diff 200, 521 GPM.  *****Note The swab on the # 1 pump # 2 module went out and washed out the liner. We changed the liner and swab*****
8/29/2014 08:30	8/29/2014 10:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12536' to 12584' (48' @ 32 fph). WOB 12k, 70 rpm, SPP 3847, motor diff 194, 521 GPM, torque 9k.
8/29/2014 10:00	8/29/2014 11:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 12584' to 12599' (15' @ 15 fph). 180 GTF, WOB 20k, 0 rpm, SPP 3886, motor diff 165, 521 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/29/2014 11:00	8/29/2014 12:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12599' to 12647' (48' @ 32 fph). WOB 12k, 70 rpm, SPP 3955, motor diff 210, 521 GPM, torque 10k.
8/29/2014 12:30	8/29/2014 13:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 12647' to 12665' (18' @ 18 fph). 180 GTF, WOB 32k, 0 rpm, SPP 3918, motor diff 220, 521 GPM.
8/29/2014 13:30	8/29/2014 15:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12665' to 12741' (76' @ 51 fph). WOB 12k, 70 rpm, SPP 3930, motor diff 170, 521 GPM, torque 9k.
8/29/2014 15:30	8/29/2014 16:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12741' to 12772' (31' @ 31 fph). WOB 11k, 70 rpm, SPP 3898, motor diff 186, 521 GPM, torque 9k.
8/29/2014 16:30	8/29/2014 17:00	0.5	PLAN	EQUIP	RIGSER	Service rig
8/29/2014 17:00	8/29/2014 17:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 12772' to 12787' (15' @ 30 fph). 180 GTF, WOB 10k, 0 rpm, SPP 3800, motor diff 100, 521 GPM.
8/29/2014 17:30	8/30/2014 01:00	7.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 12787' to 13056' (269' @ 35.9 fph). WOB 9k, 70 rpm, SPP 3850, motor diff 130, 521 GPM, torque 8k.
8/30/2014 01:00	8/30/2014 01:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 13056' to 13073' (17' @ 34 fph). 180 GTF, WOB 15k, 0 rpm, SPP 3900, motor diff 180, 521 GPM.
8/30/2014 01:30	8/30/2014 06:00	4.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 13073' to 13243' (170' @ 37.8 fph). WOB 11k, 70 rpm, SPP 3900, motor diff 190, 521 GPM, torque 9k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 32 Daily Operation: 8/30/2014 06:00 - 8/31/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
28	32	14,058.0	10,647.1	12.50	PATTERSON - UTI, 220	

### Operations Summary

Drid lateral 13243' to 14058' (815' @ 36.2 fph); 31% complete; 80% rot, 20% slgd; 5' left, 5' high; CBHT 190 F; plan #8.

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 13919', INC 91.54°, AZM 164.80°, 5' A, 5' L

Projection @ 14058', INC 91.54°, AZM 164.80°

Last Sample @ 13,134', 20% Limestone70% Shale, 10% Sand

0 Accidents, No Incidents or Spills Reported.

Days Rig Downtime:

Total Rig Downtime: 37.5 hrs

Freeboard : 19"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/30/2014 06:00	8/30/2014 06:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 13243' to 13274' (31' @ 62 fph). WOB 8k, 70 rpm, SPP 3960, motor diff 114, 521 GPM, torque 7k.
8/30/2014 06:30	8/30/2014 07:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 13274' to 13289' (15' @ 15 fph). 180 GTF, WOB 12k, SPP 3976, motor diff 120, 521 GPM.
8/30/2014 07:30	8/30/2014 12:00	4.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 13289' to 13493' (204' @ 45.3 fph). WOB 7k, 70 rpm, SPP 3980, motor diff 126, 521 GPM, torque 8k.
8/30/2014 12:00	8/30/2014 13:30	1.5	PLAN	WLCOND	CIRC	Circulate a clean up cycle we pumped two 40 bbl. sweeps in tandem Before String weights Pick up weight 258k Slack off weight 238k Rotating weight 245k Torque 7000 ft/lb After Clean up cycle Pick up weight 252k Slack off weight 244k Rotating weight 250k Torque 4000 ft/lb
8/30/2014 13:30	8/30/2014 18:00	4.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 13493' to 13680' (187' @ 41.6 fph). WOB 10.5k, 70 rpm, SPP 3991, motor diff 161, 521 GPM, torque 8k.
8/30/2014 18:00	8/30/2014 19:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 13680' to 13700' (20' @ 20 fph). 180 GTF, WOB 12k, 0 rpm, SPP 3980, motor diff 160, 521 GPM.
8/30/2014 19:00	8/30/2014 21:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 13700' to 13775' (75' @ 30 fph). WOB 15k, 70 rpm, SPP 3900, motor diff 160, 521 GPM, torque 9k.
8/30/2014 21:30	8/30/2014 22:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 13775' to 13790' (15' @ 15 fph). 180 GTF, WOB 25k, 0 rpm, SPP 3875, motor diff 180, 521 GPM.
8/30/2014 22:30	8/31/2014 00:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 13790' to 13869' (79' @ 39.5 fph). WOB 15k, 70 rpm, SPP 3900, motor diff 160, 521 GPM, torque 9k.
8/31/2014 00:30	8/31/2014 01:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 13869' to 13881' (12' @ 24 fph). 180 GTF, WOB 23k, 0 rpm, SPP 3955, motor diff 235, 521 GPM.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/31/2014 01:00	8/31/2014 03:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 13881' to 13963' (82' @ 41 fph). WOB 14k, 70 rpm, SPP 3930, motor diff 175, 521 GPM, torque 9k.
8/31/2014 03:00	8/31/2014 04:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 13963' to 13978' (15' @ 15 fph). 180 GTF, WOB 20k, 0 rpm, SPP 3955, motor diff 175, 521 GPM.
8/31/2014 04:00	8/31/2014 06:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 13978' to 14058' (80' @ 40 fph). WOB 14k, 70 rpm, SPP 3930, motor diff 175, 504 GPM, torque 8k.

Report #: 33 Daily Operation: 8/31/2014 06:00 - 9/1/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 29	Days on Location (days) 33	End Depth (ftKB) 14,469.0	End Depth (TVD) (ftKB) 10,644.9	Dens Last Mud (lb/gal) 12.50	Rig PATTERSON - UTI, 220	

#### Operations Summary

Drlid lateral 14058' to 14469' (411' @ 27.4 fph); 36% complete; 77% rot, 23% sldg; 5' left, 1' high; CBHT 190 F; plan #8.

Rig repair-- change out 4" vavle on pump

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 14389', INC 90.66°, AZM 166.91°, 1' A, 5' L

Projection @ 14469', INC 90.66°, AZM 166.91°

Last Sample @ 14377', 20% Limestone50% Shale, 30% Sand

0 Accidents, No Incidents or Spills Reported.

Days Rig Downtime: 8 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/31/2014 06:00	8/31/2014 07:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14058' to 14089' (31' @ 31 fph). WOB 13k, 70 rpm, SPP 3976, motor diff 247, 521 GPM, torque 7k.
8/31/2014 07:00	8/31/2014 08:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 14089' to 14099' (10' @ 6.7 fph). 130R GTF, WOB 18k, 0 rpm, SPP 3817, motor diff 132, 521 GPM, torque 0k.
8/31/2014 08:30	8/31/2014 09:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14099' to 14152' (53' @ 53 fph). WOB 13k, 70 rpm, SPP 3901, motor diff 121, 521 GPM, torque 8k.
8/31/2014 09:30	8/31/2014 10:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 14152' to 14172' (20' @ 20 fph). 180R GTF, WOB 13k, 0 rpm, SPP 3881, motor diff 121, 521 GPM, torque 0k.
8/31/2014 10:30	8/31/2014 11:30	1	PLAN	EQUIP	RIGSER	Rig Service
8/31/2014 11:30	8/31/2014 13:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14172' to 14244' (72' @ 48 fph). WOB 11k, 70 rpm, SPP 3950, motor diff 182, 521 GPM, torque 8k.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/31/2014 13:00	8/31/2014 21:00	8	UNPLANNED	Rig-related problems (BOPE, etc)	U_RIG	(Rig repair) The derrick man was going to change out a pump valve on the # 1 pump # 3 module and he attempted to close the 4" discharge line valve and the valve stem was stripped out and would not close for him to work on the pump in order to fix the 4" valve we had to trip to the casing shoe and have a valve repair kit delivered to the rig by a hot shot truck . The valve repair kit got here and it was the wrong one and had to wait for another repair kit was delivered from NOV supply and the repair kit was installed and it was pressured up to 2500 psi. and held for 5 minutes . We ran the pumps and checked that the MWD tool was working properly (All test was good). We go back on daywork when we get back on bottom @ 14,244'
8/31/2014 21:00	8/31/2014 23:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14244' to 14277' (33' @ 16.5 fph). WOB 17k, 70 rpm, SPP 3950, motor diff 160, 521 GPM, torque 8k.
8/31/2014 23:00	9/1/2014 00:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 14277' to 14290' (13' @ 13 fph). 180 GTF, WOB 27k, 0 rpm, SPP 3850, motor diff 110, 521 GPM.
9/1/2014 00:00	9/1/2014 06:00	6	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14290' to 14469' (179' @ 29.8 fph). WOB 17k, 70 rpm, SPP 3900, motor diff 230, 521 GPM, torque 8k.

**Report #: 34 Daily Operation: 9/1/2014 06:00 - 9/2/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
30	34	15,374.0	10,638.8	12.50	PATTERSON - UTI, 220	

#### Operations Summary

Drlid lateral 14469' to 15374' (905' @ 38.5 fph); 46% complete; 83% rot, 17% sldg; 13' left, 0' low; CBHT 190 F; plan #8.

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 15237', INC 90.57°, AZM 163.30°, 0' A, 13' L

Projection @ 15374', INC 90.57°, AZM 163.30°

Last Sample @ 14904', 20% Limestone60% Shale, 20% Sand

0 Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/1/2014 06:00	9/1/2014 08:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14469' to 14528' (59' @ 29.5 fph). WOB 21k, 70 rpm, SPP 3935, motor diff 309, 487 GPM, torque 10k.
9/1/2014 08:00	9/1/2014 09:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 14528' to 14558' (30' @ 20 fph). 180D GTF, WOB 37k, 0 rpm, SPP 3830, motor diff 310, 487 GPM, torque 0k.
9/1/2014 09:30	9/1/2014 12:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14558' to 14622' (64' @ 25.6 fph). WOB 9k, 70 rpm, SPP 3140, motor diff 310, 487 GPM, torque 8k.
9/1/2014 12:00	9/1/2014 13:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 14622' to 14627' (5' @ 5 fph). 180D GTF, WOB 13k, 0 rpm, SPP 3757, motor diff 169, 487 GPM, torque 0k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/1/2014 13:00	9/1/2014 16:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14627' to 14800' (173' @ 87 fph). WOB 20k, 70 rpm, SPP 3831, motor diff 283, 487 GPM, torque 11k.
9/1/2014 16:00	9/1/2014 16:30	0.5	PLAN	EQUIP	RIGSER	Service rig
9/1/2014 16:30	9/1/2014 18:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14811' to 14905' (94' @ 63 fph). WOB 20k, 70 rpm, SPP 3840, motor diff 200, 487 GPM, torque 9k.
9/1/2014 18:00	9/1/2014 19:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 14905' to 14917' (12' @ 8 fph). 180 GTF, WOB 35k, 0 rpm, SPP 3900, motor diff 254, 487 GPM, torque 0k.
9/1/2014 19:30	9/2/2014 06:00	10.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 14917' to 15374' (457' @ 43.5 fph). WOB 21k, 70 rpm, SPP 3980, motor diff 350, 487 GPM, torque 10k.

Report #: 35 Daily Operation: 9/2/2014 06:00 - 9/3/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
31	35	16,051.0	10,633.9	12.50	PATTERSON - UTI, 220	

#### Operations Summary

Drld lateral 15374' to 16051' (677' @ 42.3 fph); 53% complete; 59% rot, 41% sldg; 29' left, 1' high; CBHT 190 F; plan #8.

Tooh to chg. bha

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 15990', INC 89.78°, AZM 165.17°, 1' A, 29' L

Projection @ 16051', INC 89.78°, AZM 165.17°

Last Sample @ 15941', 10% Limestone80% Shale, 10% Sand

0 Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/2/2014 06:00	9/2/2014 07:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 15374' to 15390' (16' @ 16 fph). 90R GTF, WOB 20k, 0 rpm, SPP 3826, motor diff 113, 470 GPM, torque 0k.
9/2/2014 07:00	9/2/2014 09:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 15390' to 15520' (130' @ 65 fph). WOB 21k, 70 rpm, SPP 3950, motor diff 274, 470 GPM, torque 11k.
9/2/2014 09:00	9/2/2014 09:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 15520' to 15530' (10' @ 20 fph). 45R GTF, WOB 31k, 0 rpm, SPP 3876, motor diff 144, 470 GPM, torque 0k.
9/2/2014 09:30	9/2/2014 10:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 15530' to 15595' (65' @ 65 fph). WOB 20k, 70 rpm, SPP 4110, motor diff 370, 470 GPM, torque 11k.
9/2/2014 10:30	9/2/2014 12:30	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 15595' to 15610' (15' @ 7.5 fph). 45R GTF, WOB 31k, 0 rpm, SPP 3765, motor diff 166, 470 GPM, torque 0k.
9/2/2014 12:30	9/2/2014 13:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 15610' to 15658' (48' @ 96 fph). WOB 23k, 70 rpm, SPP 4047, motor diff 366, 470 GPM, torque 12k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/2/2014 13:00	9/2/2014 14:30	1.5	PROD-CIRC	CIRCULATE	CIRC	Circulate clean up cycle and pump two 20 bbl. sweeps in tandem. While working a whole stand  Before clean up cycle Pick up weight 290k Slack off weight 200k Rotating weight 242k Top Drive RPM 80 Torque 9000 ft/lb After clean up cycle Pick up weight 270k Slack off weight 229k Rotating weight 250k Top Drive RPM 80 Torque 6000 ft/lb
9/2/2014 14:30	9/2/2014 16:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 15658' to 15752' (94' @ 63 fph). WOB 21k, 70 rpm, SPP 4077, motor diff 450, 470 GPM, torque 11k.
9/2/2014 16:00	9/2/2014 17:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 15752' to 15769' (17' @ 17 fph). 70R GTF, WOB 31k, 0 rpm, SPP 3948, motor diff 174, 470 GPM, torque 10k.
9/2/2014 17:00	9/2/2014 18:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 15769' to 15847' (78' @ 78 fph). WOB 23k, 70 rpm, SPP 4070, motor diff 393, 470 GPM, torque 11k.
9/2/2014 18:00	9/2/2014 18:30	0.5	UNPLAN	OTHR	U_OTR	Had pump problem, had to relog gama 15832'-15847'
9/2/2014 18:30	9/2/2014 22:00	3.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 15847' to 16034' (187' @ 53 fph). WOB 23k, 70 rpm, SPP 3990, motor diff 360, 470 GPM, torque 11k.
9/2/2014 22:00	9/3/2014 00:00	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16034' to 16051' (17' @ 8.5 fph). 45R GTF, WOB 30k, 0 rpm, SPP 3850, motor diff 118, 470 GPM.
9/3/2014 00:00	9/3/2014 02:00	2	UNPLANNED	Directional Equipment Failure (motor/rotary steera	U_DIR	After making slide, tried to go back to drilling, could not get any diff. pressure & no torque, set 30-35 wob, no diff. pressure, didnt lose any pump pressure off bottom, build & pump slug
9/3/2014 02:00	9/3/2014 06:00	4	PROD-TRIP	TRIP	TRIP	Pull out of hole

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 36 Daily Operation: 9/3/2014 06:00 - 9/4/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
32	36	16,051.0	10,633.9	12.60	PATTERSON - UTI, 220	

### Operations Summary

Finnish out of hole, change out motor, bit, pull wear bushing, test BOP ( test good ),install wear bushing, test MWD tools, make up bit, trip in hole to 1000', slip & cut drill line,trip in hole, fill pipe @ 3000',6500', @ 10100' fill pipe, break circ. & install rotatring head, trip in hole @ 12500'

### Test BOP

annular 250 low-1500 high  
Pipe rams 250 low--2500 high  
Blind rams 250 low--2500 high  
Lower rams 250 low--2500 high  
Manifold  
Inner 250 low--2500 high  
Outer 250 low--2500 high  
Secondary 250 low--2500 high  
S/M choke 250 low--2500 high

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 15990', INC 89.78°, AZM 165.17°, 1' A, 29' L  
Projection @ 16051', INC 89.78°, AZM 165.17°

Last Sample @ 15941', 10% Limestone80% Shale, 10% Sand

0 Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/3/2014 06:00	9/3/2014 14:00	8	UNPLANNED	Directional Equipment Failure (motor/rotary steera	U_DIR	Finished pulling out of the hole to change out mud motor, mwd tool and bit
9/3/2014 14:00	9/3/2014 15:00	1	UNPLANNED	Directional Equipment Failure (motor/rotary steera	U_DIR	Break and Lay down mud motor, mwd tool and bit # 6 Make up new mud motor, mwd tool and bit # 7 Clean rig floor before testing B.O.P for 14 day test
9/3/2014 15:00	9/3/2014 16:00	1	PLAN	EQUIP	BOPS	Pull wear bushing
9/3/2014 16:00	9/3/2014 17:30	1.5	PLAN	EQUIP	BOPS	Test BOP annular 250 low--2500 high Pipe rams 250 low--2500 high Blind rams 250 low--2500 high Lower rams 250 low--2500 high Manifold Inner 250 low--2500 high Outer 250 low--2500 high Secondary 250 low--2500 high S/M choke 250 low--2500 high
9/3/2014 17:30	9/3/2014 18:00	0.5	PLAN	EQUIP	BOPS	Install wear bushing

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/3/2014 18:00	9/3/2014 20:30	2.5	UNPLANNED	Directional Equipment Failure (motor/rotary steera	U_DIR	Test MWD tools, make up bit, trip in 10 stds
9/3/2014 20:30	9/3/2014 22:30	2	PLAN	DRLG	CUTDL	Slip & cut drill line
9/3/2014 22:30	9/4/2014 03:00	4.5	UNPLANNED	Directional Equipment Failure (motor/rotary steera	U_DIR	Trip in hole to 10100', fill pipe 3000',6500'
9/4/2014 03:00	9/4/2014 04:00	1	PLAN	WLCOND	CIRC	Fill pipe @ 10100', break cir. & install rotateing head
9/4/2014 04:00	9/4/2014 06:00	2	UNPLANNED	Directional Equipment Failure (motor/rotary steera	U_DIR	Tripping in hole @ 12500'

**Report #: 37 Daily Operation: 9/4/2014 06:00 - 9/5/2014 06:00**

Job Category <b>ORIG DRILLING</b>	Primary Job Type <b>ODR</b>	AFE Number <b>030879</b>
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Days From Spud (days) <b>33</b>	Days on Location (days) <b>37</b>	End Depth (ftKB) <b>16,525.0</b>	End Depth (TVD) (ftKB) <b>10,632.1</b>	Dens Last Mud (lb/gal) <b>12.50</b>	Rig <b>PATTERSON - UTI, 220</b>
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#### Operations Summary

Drl lateral 16051' to 16525' (474' @ 25.6 fph); 59% complete; 59% rot, 41% sldg; 32' left, 1' high; CBHT 190 F; plan #8.

Had to replace 2 valves & seats in # 1 pump,& 3 valves & seats in # 2 pump, had 2" valve wash out on # 2 pump, rebuild valve, still getting some interfering from pumps, hard to log

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 16367', INC 89.16°, AZM 166.56°, 1' A, 29' L

Projection @ 16584', INC 89.16°, AZM 166.56°

Last Sample @ 16380', 10% Limestone 70% Shale, 20% Sand

0 Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/4/2014 06:00	9/4/2014 08:00	2	UNPLAN	EQUIP	U_DEQ	Trip in hole with new bha. t/15936'
9/4/2014 08:00	9/4/2014 08:30	0.5	UNPLAN	EQUIP	U_DEQ	Wash and ream f/15936' t/16051'
9/4/2014 08:30	9/4/2014 13:00	4.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16051' to 16228' (177' @ 39.3 fph). WOB 23k, 70 rpm, SPP 4085, motor diff 385, 445 GPM, torque 13k.
9/4/2014 13:00	9/4/2014 14:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16228' to 16240' (12' @ 8 fph). 45R GTF, WOB 63k, 0 rpm, SPP 3800, motor diff 240, 445 GPM, torque 0k.
9/4/2014 14:30	9/4/2014 15:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16240' to 16250' (10' @ 20 fph). WOB 21k, 70 rpm, SPP 4022, motor diff 369, 445 GPM, torque 11k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/4/2014 15:00	9/4/2014 17:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16240' to 16322' (82' @ 41 fph). WOB 25k, 70 rpm, SPP 4022, motor diff 555, 445 GPM, torque 11k.
9/4/2014 17:00	9/4/2014 18:00	1	PLAN	EQUIP	RIGSER	Rig Service
9/4/2014 18:00	9/4/2014 20:00	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16322' to 16337' (15' @ 7.5 fph). 45R GTF, WOB 58k, 0 rpm, SPP 3830, motor diff 105, 445 GPM, torque 0k.
9/4/2014 20:00	9/4/2014 22:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16337' to 16416' (79' @ 31.6 fph). WOB 26k, 70 rpm, SPP 4040, motor diff 500, 445 GPM, torque 11k.
9/4/2014 22:30	9/5/2014 00:00	1.5	UNPLANNED	Other - Anything not listed above	U_OTR	Had to relog from 16342'--16416', had to work on #1 & #2 pump
9/5/2014 00:00	9/5/2014 04:00	4	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16416' to 16430' (14' @ 3.5 fph). 45R GTF, WOB 16k, 0 rpm, SPP 3545, motor diff 35, 445 GPM, torque 0k.
9/5/2014 04:00	9/5/2014 06:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16430' to 16525' (154' @ 38.5 fph). WOB 16k, 70 rpm, SPP 3900, motor diff 400, 445 GPM, torque 14k.

Report #: 38 Daily Operation: 9/5/2014 06:00 - 9/6/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
34	38	16,904.0	10,617.1	12.50	PATTERSON - UTI, 220	

#### Operations Summary

Drl lateral 16525' to 16904' (379' @ 21.7 fph); 63% complete; 43% rot, 57% sldg; 14' left, 11' high; CBHT 190 F; plan #8.

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 16840', INC 91.10°, AZM 167.96°, 11' A, 14' L  
Projection @ 16904', INC 91.10°, AZM 167.96

Last Sample @ 16807', 10% Limestone 80% Shale, 10% Sand

0 Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/5/2014 06:00	9/5/2014 12:30	6.5	UNPLAN	EQUIP	U_RIG	Attempted to slide with only one mud pump on line and the mwd tool was picking up to much noise with only one pump. We picked up off bottom and worked on pump # 2 module # 3 we changed the swab, liner, valves and seats. while putting the # 2 pump back together the # 1 pump the # 1 module the swab went out and we changed it out and bought both pumps on line and attempted to return to sliding with both pumps when the swab we replaced in the # 2 pump went out and we replaced it. we aired out both pumps and returned to sliding.
9/5/2014 12:30	9/5/2014 14:30	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16525' to 16533' (8' @ 4 fph). 30R GTF, WOB 15k, 0 rpm, SPP 3484, motor diff 200, 445 GPM, torque 0k.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/5/2014 14:30	9/5/2014 15:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16533' to 16542' (9' @ 18 fph). WOB 22k, 70 rpm, SPP 3840, motor diff 358, 445 GPM, torque 13k.
9/5/2014 15:00	9/5/2014 16:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16542' to 16552' (10' @ 6.7 fph). 30R GTF, WOB 15k, 0 rpm, SPP 3484, motor diff 200, 445 GPM, torque 0k.
9/5/2014 16:30	9/5/2014 18:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16552' to 16637' (85' @ 57 fph). WOB 30k, 70 rpm, SPP 3900, motor diff 400, 445 GPM, torque 14k.
9/5/2014 18:00	9/5/2014 20:00	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16637' to 16652' (15' @ 7.5 fph). HS GTF, WOB 26k, 0 rpm, SPP 3568, motor diff 62, 445 GPM, torque 0k.
9/5/2014 20:00	9/5/2014 23:30	3.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16652' to 16795' (143' @ 40.9 fph). WOB 25k, 70 rpm, SPP 3900, motor diff 480, 445 GPM, torque 13k.
9/5/2014 23:30	9/6/2014 00:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16795' to 16806' (11' @ 11 fph). 180 GTF, WOB 20k, 0 rpm, SPP 3545, motor diff 45, 445 GPM, torque 0k.
9/6/2014 00:30	9/6/2014 01:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16806' to 16823' (17' @ 34 fph). WOB 25k, 70 rpm, SPP 3900, motor diff 480, 445 GPM, torque 14k.
9/6/2014 01:00	9/6/2014 02:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16823' to 16836' (13' @ 8.7 fph). 180 GTF, WOB 30k, 0 rpm, SPP 3650, motor diff 60, 445 GPM, torque 0k.
9/6/2014 02:30	9/6/2014 04:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16836' to 16889' (53' @ 35.3 fph). WOB 25k, 70 rpm, SPP 3900, motor diff 480, 445 GPM, torque 13k.
9/6/2014 04:00	9/6/2014 06:00	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 16889' to 16904' (15' @ 7.5 fph). 180 GTF, WOB 25k, 0 rpm, SPP 3550, motor diff 70, 445 GPM, torque 0k.

**Report #: 39 Daily Operation: 9/6/2014 06:00 - 9/7/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
35	39	17,330.0	10,618.0	12.50	PATTERSON - UTI, 220		

#### Operations Summary

Drid lateral 16904' to 17330' (426' @ 19.8 fph); 68% complete; 58% rot, 42% sldg; 6' right, 7' high; CBHT 190 F; plan #8.

Wrk. on pump # 2 chg. out swab, liner, liner gasket on # 2 module

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 17218', INC 90.22°, AZM 171.57°, 7' Above, 6' Right

Projection @ 17361', INC 90.22°, AZM 171.57

Last Sample @ 17203', 20% Limestone 70% Shale, 10% Sand

0 Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/6/2014 06:00	9/6/2014 10:00	4	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 16904' to 17078' (174' @ 43.5 fph). WOB 20k, 70 rpm, SPP 3890, motor diff 480, 444 GPM, torque 13k.
9/6/2014 10:00	9/6/2014 10:30	0.5	PLAN	EQUIP	RIGSER	Rig service



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/6/2014 10:30	9/6/2014 12:30	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17078' to 17092' (14' @ 5.6 fph). 150L GTF, WOB 20k, 0 rpm, SPP 3890, motor diff 480, 444 GPM, torque 0k.
9/6/2014 12:30	9/6/2014 15:30	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17092' to 17202' (110' @ 36.7 fph). WOB 20k, 70 rpm, SPP 3909, motor diff 338, 444 GPM, torque 12k.
9/6/2014 15:30	9/6/2014 18:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17202' to 17216' (14' @ 5.6 fph). 130L GTF, WOB 22k, 0 rpm, SPP 3890, motor diff 480, 444 GPM, torque 0k.
9/6/2014 18:00	9/6/2014 20:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17216' to 17267' (51' @ 20.4 fph). WOB 21k, 70 rpm, SPP 3860, motor diff 458, 444 GPM, torque 13k.
9/6/2014 20:30	9/6/2014 21:00	0.5	PLAN	EQUIP	RIGSER	Service rig
9/6/2014 21:00	9/7/2014 00:00	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17267' to 17278' (11' @ 3.7 fph). 150L GTF, WOB 25k, 0 rpm, SPP 3415, motor diff 60, 420 GPM, torque 0k.
9/7/2014 00:00	9/7/2014 01:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17278' to 17298' (20' @ 13.3 fph). WOB 18k, 70 rpm, SPP 3850, motor diff 160, 444 GPM, torque 14k.  **** Work on # 2 pump, change out middle swab & liner, liner gasket****
9/7/2014 01:30	9/7/2014 03:30	2	PLAN	WLCOND	CIRC	Circulate clean up cycle and pump two 25 bbl. & 35 bbls. sweeps in tandem. While working a whole stand 94' Before clean up cycle Pick up weight 310k Slack off weight 190k Rotating weight 250k Top Drive RPM 75 Torque 8000 ft/lb After clean up cycle Pick up weight 250k Slack off weight 235k Rotating weight 250k Top Drive RPM 75 Torque 6000 ft/lb
9/7/2014 03:30	9/7/2014 04:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17298' to 17306' (8' @ 8 fph). 150L GTF, WOB 27k, 0 rpm, SPP 3415, motor diff 55, 444 GPM, torque 0k.
9/7/2014 04:30	9/7/2014 06:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17306' to 17330' (24' @ 16.7 fph). WOB 25k, 70 rpm, SPP 3850, motor diff 160, 444 GPM, torque 12k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 40 Daily Operation: 9/7/2014 06:00 - 9/8/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
36	40	17,710.0	10,623.1	12.50	PATTERSON - UTI, 220	

### Operations Summary

Drl lateral 17330' to 17710' (380' @ 16.5 fph); 72% complete; 54% rot, 46% sldg; 36' right, 2' high; CBHT 190 F; plan #8.

Change middle swab in # 2 pump, liner ok

Reported a 3 bbls oil base mud spil around # 1 pump when replaceing swab

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 17595', INC 88.64°, AZM 169.28°, 2' Above, 36' Right

Projection @ 17710' INC 88.64°, AZM 169.28

Last Sample @ 17526', 10% Limestone 70% Shale,20% Sand

0 Accidents, 0 Incidents or 1 Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/7/2014 06:00	9/7/2014 07:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17330' to 17361' (31' @ 20.7 fph). WOB 20k, 70 rpm, SPP 3800, motor diff 150, 444 GPM, torque 10k.
9/7/2014 07:30	9/7/2014 08:00	0.5	PLAN	EQUIP	RIGSER	Rig Service
9/7/2014 08:00	9/7/2014 14:00	6	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17361' to 17378' (17' @ 2.8 fph). 180R GTF, WOB 35k, 0 rpm, SPP 3980, motor diff 110, 444 GPM, torque 0k.
9/7/2014 14:00	9/7/2014 18:00	4	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17378' to 17486' (108' @ 27 fph). WOB 26k, 70 rpm, SPP 3900, motor diff 200, 444 GPM, torque 10k.
9/7/2014 18:00	9/7/2014 22:30	4.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17486' to 17499' (13' @ 2.9 fph). 150L GTF, WOB 23k, 0 rpm, SPP 3885, motor diff 250, 444 GPM, torque 0k.
9/7/2014 22:30	9/8/2014 00:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17499' to 17550' (51' @ 34 fph). WOB 25k, 70 rpm, SPP 3900, motor diff 250, 444 GPM, torque 12k.
9/8/2014 00:00	9/8/2014 00:30	0.5	PLAN	EQUIP	RIGSER	Service rig
9/8/2014 00:30	9/8/2014 06:00	5.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17550' to 17710' (160' @ 29.1 fph). WOB 22k, 70 rpm, SPP 3900, motor diff 400, 444 GPM, torque 13k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 41 Daily Operation: 9/8/2014 06:00 - 9/9/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
37	41	17,958.0	10,621.0	12.50	PATTERSON - UTI, 220			

### Operations Summary

Drid lateral 17710' to 17958' (248' @ 12.1 fph); 75% complete; 27% rot, 73% sldg; 51' right, 0' low; CBHT 191 F; plan #8.

Did a clean up cycle @ 17798'

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 17878', INC 89.60°, AZM 167.52°, 0' Above, 51' Right

Projection @ 17958' INC 89.60°, AZM 167.52

Last Sample @ 17832', 20% Limestone 70% Shale10% Sand

0 Accidents, 0 Incidents or 1 Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/8/2014 06:00	9/8/2014 06:30	0.5	PLAN	EQUIP	RIGSER	Rig Service
9/8/2014 06:30	9/8/2014 07:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17710' to 17738' (28' @ 56 fph). WOB 20k, 70 rpm, SPP 3800, motor diff 200, 444 GPM, torque 12k.
9/8/2014 07:00	9/8/2014 12:30	5.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17738' to 17753' (15' @ 2.7 fph). 120L GTF, WOB 50k, 0 rpm, SPP 3650, motor diff 50, 444 GPM, torque 0k.
9/8/2014 12:30	9/8/2014 15:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17753' to 17798' (45' @ 18 fph). WOB 23k, 70 rpm, SPP 3911, motor diff 170, 444 GPM, torque 12k.
9/8/2014 15:00	9/8/2014 17:30	2.5	PLAN	WLCOND	CIRC	Circulate clean up cycle and pump two sweeps, 20 bbl.& 25 bbls. sweeps in tandem. While working a whole stand 94' Before clean up cycle Pick up weight 325 k Slack off weight 110k Rotating weight 250k Top Drive RPM 75 Torque 11000 ft/lb After clean up cycle Pick up weight 300 k Slack off weight 190 k Rotating weight 250k Top Drive RPM 75 Torque 9000 ft/lb
9/8/2014 17:30	9/8/2014 20:30	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17798' to 17816' (18' @ 6 fph). 150L GTF, WOB 59k, 0 rpm, SPP 3735, motor diff 90, 444 GPM, torque 0k.
9/8/2014 20:30	9/8/2014 21:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17816' to 17832' (16' @ 16 fph). WOB 20k, 70 rpm, SPP 3970, motor diff 350, 444 GPM, torque 12k.
9/8/2014 21:30	9/8/2014 22:00	0.5	PLAN	EQUIP	RIGSER	Service rig

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/8/2014 22:00	9/8/2014 22:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17832' to 17865' (33' @ 66 fph). WOB 13k, 70 rpm, SPP 3900, motor diff 265, 444 GPM, torque 12k.
9/8/2014 22:30	9/9/2014 02:30	4	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 17865' to 17879' (14' @ 3.5 fph). 100L GTF, WOB 59k, 0 rpm, SPP 3735, motor diff 90, 444 GPM.
9/9/2014 02:30	9/9/2014 06:00	3.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17879' to 17958' (79' @ 22.6 fph). WOB 12k, 70 rpm, SPP 3950, motor diff 300, 444 GPM, torque 12k.

Report #: 42 Daily Operation: 9/9/2014 06:00 - 9/10/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
38	42	17,971.0	10,620.9	12.60	PATTERSON - UTI, 220	

### Operations Summary

Drld lateral 17958' to 17971' (13' @ 4.3 fph); 75% complete; 100% rot; 51' right, 0' low; CBHT 191 F; plan #8.

Pull out of hole to 11800', did a clean up cycle, finnish out of hole, pick up new bit; motor & MWD tools, test MWD, make up bit & trip in hole, fill pipe @ 3000'

Circulate clean up cycle and pump two sweeps, 20 bbl.& 30 bbls. sweeps in tandem. While working a whole stand 94'

Before clean up cycle

Pick up weight300 k

Slack off weight 240k

Rotating weight250k

Top Drive RPM 75

Torque 10000 ft/lb

After clean up cycle

Pick up weigh 262 k

Slack off weight 260 k

Rotating weight 250k

Top Drive RPM 75

Torque 7000 ft/lb

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 17878', INC 89.60°, AZM 167.52°, 0' Above, 51' Right

Projection @ 17971' INC 89.60°, AZM 167.52

Last Sample @ 17832', 20% Limestone 70% Shale10% Sand

0 Accidents, 0 Incidents or 0 Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/9/2014 06:00	9/9/2014 09:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 17958' to 17971' (13' @ 4.3 fph). , WOB 59k, 0 rpm, SPP 3735, motor diff 90, 444 GPM, torque 0k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/9/2014 09:00	9/9/2014 12:00	3	PROD-CIRC	CIRCULATE	CIRC	Circulate clean up cycle and pump two sweeps, 30 bbl. & 30 bbls. sweeps in tandem. While working a whole stand 94' Before clean up cycle Pick up weight 320 k Slack off weight 120k Rotating weight 259k Top Drive RPM 75 Torque 12000 ft/lb After clean up cycle Pick up weight 300 k Slack off weight 190 k Rotating weight 250k Top Drive RPM 75 Torque 9000 ft/lb
9/9/2014 12:00	9/9/2014 16:30	4.5	PROD-TRIP	TRIP	TRIP	Pump slug and pull out the hole to 11800'
9/9/2014 16:30	9/9/2014 19:00	2.5	PROD-CIRC	CIRCULATE	CIRC	Circulate clean up cycle and pump two sweeps, 20 bbl. & 30 bbls. sweeps in tandem. While working a whole stand 94' Before clean up cycle Pick up weight 300 k Slack off weight 240k Rotating weight 250k Top Drive RPM 75 Torque 12000 ft/lb After clean up cycle Pick up weight 262 k Slack off weight 260 k Rotating weight 250k Top Drive RPM 75 Torque 9000 ft/lb
9/9/2014 19:00	9/10/2014 00:30	5.5	PROD-TRIP	TRIP	TRIP	Pulling out of hole for BHA
9/10/2014 00:30	9/10/2014 03:30	3	PROD-TRIP	TRIP	TRIP	Change out bit; motor : MWD tools & test tools
9/10/2014 03:30	9/10/2014 06:00	2.5	PROD-TRIP	TRIP	TRIP	Trip in hole, fill pipe @ 3000'

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 43 Daily Operation: 9/10/2014 06:00 - 9/11/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
39	43	18,110.0	10,617.6	12.60	PATTERSON - UTI, 220			

### Operations Summary

Drid lateral 17971' to 18110' (139' @ 13.9 fph); 76% complete; 50% rot, 50% sldg; 51' right, 0' low; CBHT 191 F; plan #8.

Trip in hole with new bha

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 17878', INC 89.60°, AZM 167.52°, 0' Above, 51' Right

Projection @ 17971' INC 89.60°, AZM 167.52

Last Sample @ 18015', 20% Limestone 60% Shale 20% Sand

0 Accidents, 0 Incidents or 0 Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/10/2014 06:00	9/10/2014 15:00	9	PROD-TRIP	TRIP	TRIP	Trip in hole and fill every 30 stands Stop at the shoe and retest mwd tools (test good) Finish tripping in the hole to 17451'
9/10/2014 15:00	9/10/2014 17:00	2	PROD-TRIP	TRIP	TRIP	Wash and ream from 17451' to 17922'
9/10/2014 17:00	9/10/2014 17:30	0.5	PLAN	EQUIP	RIGSER	Service rig
9/10/2014 17:30	9/10/2014 18:00	0.5	PROD-TRIP	TRIP	TRIP	Wash and ream from 17922' to 17971'
9/10/2014 18:00	9/10/2014 19:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide from 17971' to 17985' (14' @ 9.3 fph). 90L GTF, WOB 30k, 0 rpm, SPP 3900, motor diff 100, 444 GPM, torque 0k.
9/10/2014 19:30	9/10/2014 22:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate from 17985' to 18045' (60' @ 24 fph). WOB 18k, 70 rpm, SPP 4080, motor diff 300, 444 GPM, torque 15k.
9/10/2014 22:00	9/11/2014 00:00	2	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide from 18045' to 18050' (5' @ 2.5 fph). 110L GTF, WOB 10k, 0 rpm, SPP 3790, motor diff 140, 444 GPM, torque 0k.
9/11/2014 00:00	9/11/2014 02:00	2	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate from 18050' to 18079' (29' @ 14.5 fph). WOB 18k, 70 rpm, SPP 4000, motor diff 300, 424 GPM, torque 13k.
9/11/2014 02:00	9/11/2014 05:00	3	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide from 18079' to 18094' (15' @ 5 fph). 180D GTF, WOB 50k, 0 rpm, SPP 3700, motor diff 150, 424 GPM, torque 0k.
9/11/2014 05:00	9/11/2014 06:00	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate from 18094' to 18110' (16' @ 16 fph). WOB 20k, 70 rpm, SPP 4070, motor diff 350, 424 GPM, torque 13k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 44 Daily Operation: 9/11/2014 06:00 - 9/12/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
40	44	18,267.0	10,612.9	12.60	PATTERSON - UTI, 220	

### Operations Summary

Drid lateral f/ 18,110' to 18,267' (157' @ 8.05 fph); 88% complete, 36% rot, 64% sldg, 56' right, 3' above, CBHT 191° F; plan #8, 20% Limestone, 50% Shale, 30% Sand

Clean Up Cycle @ 18,218', pumped 80 bbl 13.6ppg 90 vis weighted sweep followed with 40bbl 13.6ppg 90 vis weighted sweep while working pipe. 350 P/U before cycle, 320 P/U after cycle

Lost 100 bbls OBM @ 18,230' after pumping weighted sweep, mixed and pumped LCM pill and regained full returns

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 18,160', INC 92.24°, AZM 166.12°, 3' Above, 56' Right

Projection @ 18,204' INC 92.24°, AZM 166.12°

Last Sample @ 18,234', 20% Limestone 50% Shale 30% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/11/2014 06:00	9/11/2014 08:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 18110' to 18141' (31' @ 15.5 fph). WOB 10k, 70 rpm, SPP 3670, motor diff 150, 430 GPM, torque 11k.
9/11/2014 08:00	9/11/2014 11:00	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18141' to 18163' (22' @ 7.3 fph). 150L GTF, WOB 30k, 0 rpm, SPP 3700, motor diff 150, 430 GPM, torque 0k.
9/11/2014 11:00	9/11/2014 13:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 18163' to 18203' (40' @ 20 fph). WOB 10k, 70 rpm, SPP 3670, motor diff 150, 430 GPM, torque 11k.
9/11/2014 13:00	9/11/2014 13:30	0.5	PLAN	EQUIP	RIGSER	Rig Service
9/11/2014 13:30	9/11/2014 18:00	4.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18,203' to 18,218' (15' @ 3.33 fph). 150L TF, WOB 30k, 0 rpm, SPP 3750, motor diff 225, 430 GPM, torque 0k.
9/11/2014 18:00	9/11/2014 20:00	2	PROD-CIRC	CIRCULATE	CIRC	Pump Clean Up Cycle-Pumped 80 bbl 13.6ppg 90 vis weighted sweep while reciprocating drill string, soon as sweep cleared bit pumped 40 bbl 13.6ppg 90 vis weighted sweep while working pipe, C/O pulsation dampener on #1 pump while performing clean up cycle, pumped clean up cycle w/#2 pump, 101 strokes 422 gpm's
9/11/2014 20:00	9/11/2014 21:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18,218' to 18,222' (4' @ 2.67 fph). 150L TF, WOB 30k, 0 rpm, SPP 3750, motor diff 225, 430 GPM, torque 0k.
9/11/2014 21:30	9/11/2014 23:30	2	UNPLAN	EQUIP	U_RIG	C/O Saver Sub, L/D 1 joint drill pipe and p/u 1 joint drill pipe. Torque caused us to screw out of saver sub w/topdrive while using rocker system trying to slide.
9/11/2014 23:30	9/12/2014 03:00	3.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18,222' to 18,231' (9' @ 2.57 fph). 150L TF, WOB 65k, 0 rpm, SPP 3750, motor diff 225, 430 GPM, torque 0k.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/12/2014 03:00	9/12/2014 06:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 18,231' to 18,267' (36' @ 12 fph). WOB 10k, 70 rpm, SPP 3670, motor diff 150, 430 GPM, torque 11k. Lost approx. 100 bbls OBM, mixed and pumped LCM pill and regained full returns

Report #: 45 Daily Operation: 9/12/2014 06:00 - 9/13/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 41	Days on Location (days) 45	End Depth (ftKB) 18,345.0	End Depth (TVD) (ftKB) 10,612.2	Dens Last Mud (lb/gal) 12.40	Rig PATTERSON - UTI, 220	

#### Operations Summary

Drld lateral 18267' to 18345' (78' @ 7.1 fph); 74% complete; 32% rot, 68% sldg; 54' right, 5' high; CBHT 188 F; plan #6.  
Trip out of hole from 18,345' to 1,000'.

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 18,254', INC 91.01°, AZM 164.08°, 5' Above, 54' Right

Projection @ 18,298' INC 91.01°, AZM 164.08°

Last Sample @ 18,234', 20% Limestone 50% Shale 20% LS 30% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/12/2014 06:00	9/12/2014 08:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18267' to 18280' (13' @ 5.2 fph). 165L GTF, WOB 30k, SPP 3960, motor diff 200, 427 GPM.
9/12/2014 08:30	9/12/2014 12:00	3.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 18280' to 18330' (50' @ 14.3 fph). WOB 15k, 70 rpm, SPP 3650, motor diff 200, 412 GPM, torque 11k
9/12/2014 12:00	9/12/2014 17:00	5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18330' to 18345' (15' @ 3 fph). 180 GTF, WOB 38k, SPP 3450, motor diff 200, 427 GPM.
9/12/2014 17:00	9/12/2014 17:30	0.5	UNPLAN	EQUIP	U_RIG	POOH with 1 stand to perform clean up cycle, and work complete stand while circulating, found 2nd joint of stand half way backed off, Notified Drlg. Supt. Jeff Norris about issue and decision was to pump slug and POOH checking for backed off connections.
9/12/2014 17:30	9/12/2014 18:00	0.5	UNPLAN	EQUIP	U_RIG	Check flow, pump slug & POOH from 18,345' to 18,130'
9/12/2014 18:00	9/13/2014 06:00	12	UNPLAN	EQUIP	U_RIG	Continue POOH from 18,130' to 1,000'.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 46 Daily Operation: 9/13/2014 06:00 - 9/14/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
42	46	18,345.0	10,612.2	12.40	PATTERSON - UTI, 220	

### Operations Summary

Trip out of hole, changed motor and MWD, orient and test BHA, Trip in hole break and re-torque every connection on drill pipe. Stopped at 10,003', slip and cut 100' drill line, continue tripping in hole break and re-torque every connection.

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 18,254', INC 91.01°, AZM 164.08°, 5' Above, 54' Right

Projection @ 18,298' INC 91.01°, AZM 164.08°

Last Sample @ 18,234', 20% Limestone 50% Shale 20% LS 30% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/13/2014 06:00	9/13/2014 08:30	2.5	UNPLAN	EQUIP	U_RIG	Lay down 30 joints 5" drill pipe, derrick full can't rack back anymore pipe.
9/13/2014 08:30	9/13/2014 09:00	0.5	UNPLAN	EQUIP	U_RIG	Lay down MWD , drain motor and break off bit.
9/13/2014 09:00	9/13/2014 09:30	0.5	UNPLAN	EQUIP	U_RIG	Clean Rig Floor
9/13/2014 09:30	9/13/2014 11:30	2	UNPLAN	EQUIP	U_RIG	Pick up new mud motor and scribe same, pick up MWD Tool, test MWD (OK) M/U Bit.
9/13/2014 11:30	9/13/2014 12:30	1	UNPLAN	EQUIP	U_RIG	Brads Electric checking Top Drive ( torque release wiring & equipment, function test topdrive) did not find anything wrong with top drive.
9/13/2014 12:30	9/14/2014 01:30	13	UNPLAN	EQUIP	U_RIG	Pick up 30 joints of 5" drill pipe from racks and trip in hole with drill pipe from derrick breaking ,doping and re-torque every connection to 10,003'.
9/14/2014 01:30	9/14/2014 03:30	2	UNPLAN	EQUIP	U_RIG	Slip and cut 100' drill line
9/14/2014 03:30	9/14/2014 06:00	2.5	UNPLAN	EQUIP	U_RIG	trip in hole with drill pipe from derrick breaking ,doping and re-torque every connection from 10,003' to 10,850'

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 47 Daily Operation: 9/14/2014 06:00 - 9/15/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
43	47	18,368.0	10,612.1	12.50	PATTERSON - UTI, 220	

### Operations Summary

Finish tripping in hole checking torque on every connection, washed last 141' to bottom

Drld lateral 18345' to 18367' (22' @ 3.7 fph); 75% complete; 25% rot, 75% sldg; 54' right, 5' high; CBHT 188 F; plan #6.

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 18,254', INC 91.01°, AZM 164.08°, 5' Above, 54' Right

Projection @ 18,298' INC 91.01°, AZM 164.08°

Last Sample @ 18,234', 20% Limestone 40% Shale 20% LS 40% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 45.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/14/2014 06:00	9/14/2014 07:30	1.5	UNPLAN	EQUIP	U_RIG	Trip in hole from 11,300' to 11,800' { break,dope and re-torque connections}
9/14/2014 07:30	9/14/2014 10:30	3	UNPLAN	EQUIP	U_RIG	Perform clean up cycle @ 11,800', pump 2 sweeps and circulate out.
9/14/2014 10:30	9/14/2014 15:30	5	UNPLAN	EQUIP	U_RIG	Trip in hole from 11,800' to 15,113' { break,dope and re-torque connections}
9/14/2014 15:30	9/14/2014 17:30	2	UNPLAN	EQUIP	U_RIG	Perform clean up cycle @ 15,100', pump 2 sweeps and circulate out.
9/14/2014 17:30	9/15/2014 00:00	6.5	UNPLAN	EQUIP	U_RIG	Trip in hole from 15,100' to 18,345' { break,dope and re-torque connections} Wash and ream from 18,402' to 18,345'
9/15/2014 00:00	9/15/2014 03:00	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18345' to 18352' (7' @ 2 fph). 180 GTF, WOB 35k, SPP 3480, motor diff 50, 403 GPM.
9/15/2014 03:00	9/15/2014 04:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 18352' to 18362' (10' @ 6.7 fph). WOB 14k, 70 rpm, SPP 3830, motor diff 230, 428 GPM, torque 11k.
9/15/2014 04:30	9/15/2014 06:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18362' to 18367' (5' @ 3.3 fph). 180 GTF, WOB 35k, SPP 3480, motor diff 50, 428 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 48 Daily Operation: 9/15/2014 06:00 - 9/16/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
44	48	18,677.0	10,607.0	12.50	PATTERSON - UTI, 220			

### Operations Summary

Drid lateral 18368' to 18677' (309' @ 24.7 fph); 78% complete; 80% rot, 20% sldg; 54' right, 8' high; CBHT 195 F; plan #6.

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 18,633', INC 92.68°, AZM 165.94°, 8' Above, 54' Right

Projection @ 18,677' INC 92.68°, AZM 165.94°

Last Sample @ 18,676', 20% Limestone 60% Shale 20% LS 20% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 10.5 hrs

Total Rig Downtime: 196.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/15/2014 06:00	9/15/2014 08:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide from 18368' to 18377' (9' @ 3.6 fph). 150L GTF, WOB 45k, SPP 3480, motor diff 50, 428 GPM.
9/15/2014 08:30	9/15/2014 09:00	0.5	UNPLAN	EQUIP	U_RIG	While slide drilling @ 18,377', torque caused to stall out top drive while using rocker system trying to slide, did not release torque.(Rocker system shut down tripped fault) DD picked up off bottom, nothing backed off the string or lost any pressure, check all surface equipment and notified Drilling Supt. Jeff Norris and Drilling Engineer Jorge Morales on issue, decision was to continue rotate drilling and monitoring angle & az. while rotate drilling.
9/15/2014 09:00	9/15/2014 10:00	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate from 18377' to 18394' (17' @ 17.0 fph). WOB 18k, 70 rpm, SPP 4000, motor diff 300, 424 GPM, torque 13k.
9/15/2014 10:00	9/15/2014 11:00	1	PLAN	EQUIP	RIGSER	Rig Service
9/15/2014 11:00	9/15/2014 20:00	9	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate from 18394' to 18677' (283' @ 31.4 fph). WOB 12k, 70 rpm, SPP 3800, motor diff 230, 427 GPM, torque 10k.
9/15/2014 20:00	9/15/2014 21:00	1	PROD-CIRC	CIRCULATE	CIRC	Re-log from 18,633' to 18,677'
9/15/2014 21:00	9/16/2014 00:00	3	UNPLAN	EQUIP	U_RIG	Pump 40 bbl sweep and circulate to clean hole
9/16/2014 00:00	9/16/2014 03:00	3	UNPLAN	EQUIP	U_RIG	Make 15 stand short trip from 18,677' to 17,262' and back to bottom with no losses, hole taking proper fill, no issues
9/16/2014 03:00	9/16/2014 06:00	3	UNPLAN	EQUIP	U_RIG	Pump 40 bbl sweep and circulate to clean hole, build and pump slug

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 49 Daily Operation: 9/16/2014 06:00 - 9/17/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
45	49	18,677.0	10,607.0	12.50	PATTERSON - UTI, 220	

### Operations Summary

TOOH from 18677' to 10004'. NOV tech worked on topdrive - Change out encoder wires and check 42 pin wire (damaged) wiring. NOV Techs and Slider Techs installed slider on rig. Change out liners and pistons on both pumps from 6" to 5.5". Replaced wash plate and pony rod on #2 pump. TIH from 10004' to 15658

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 18,633', INC 92.68°, AZM 165.94°, 8' Above, 54' Right

Projection @ 18,677' INC 92.68°, AZM 165.94°

Last Sample @ 18,676', 20% Limestone 60% Shale 20% LS 20% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 24 hrs

Total Rig Downtime: 220.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/16/2014 06:00	9/16/2014 11:00	5	UNPLAN	EQUIP	U_RIG	POOH from 17,000' to 10,004' for topdrive repairs
9/16/2014 11:00	9/16/2014 15:30	4.5	UNPLAN	EQUIP	U_RIG	NOV tech working on topdrive, change out encoder wires, check 42 pin wire (damaged) wiring trough. NOV Techs and Slider Techs installing slider on rig. change out liners and pistons on both pumps from 6" to 5.5".
9/16/2014 15:30	9/16/2014 21:30	6	UNPLAN	EQUIP	U_RIG	Change out liners and pistons on both pumps from 6" to 5.5".
9/16/2014 21:30	9/17/2014 01:30	4	UNPLAN	EQUIP	U_RIG	Replace wear plate and pony rod on # 2 pump
9/17/2014 01:30	9/17/2014 06:00	4.5	UNPLAN	EQUIP	U_RIG	TIH from 10004' to 15658'. Fill DP every 30 stands. Test MWD tool 12849

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 50 Daily Operation: 9/17/2014 06:00 - 9/18/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 46	Days on Location (days) 50	End Depth (ftKB) 18,978.0	End Depth (TVD) (ftKB) 10,606.7	Dens Last Mud (lb/gal) 12.50	Rig PATTERSON - UTI, 220	

Operations Summary  
TIH from 16500' to 18677'. Wash last 90' to bottom. Drl lateral 18677' to 18978' (301' @ 15.1 fph); 81% complete; 45% rot, 55% slidg; 53' right, 9' high; CBHT 200 F; plan #6. Down 1.5 hrs changing seats and valve in #1 pump.

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate: 8/19/2014 @ 0300 hrs  
Start Drilling Curve Section; 8/24/2014 @ 2000 hrs  
Landed Curve: 8/26/2014 @ 0900 hrs  
Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs  
TD well @

Rig release:

Last Survey : @ 18,959', INC 90.66°, AZM 166.56°, 9' Above, 53' Right  
Projection @ 19.003' INC 90.66°, AZM 166.56°

Last Sample @ 18,930', 90% Shale 20% LS 10% Sand  
No Accidents, No Incidents or Spills Reported.  
Day Rig Downtime: 4 hrs  
Total Rig Downtime: 224.5 hrs  
Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/17/2014 06:00	9/17/2014 08:00	2	UNPLANNED	Rig-related problems (BOPE, etc)	U_RIG	Trip in hole from 16,500' to 18,630'
9/17/2014 08:00	9/17/2014 08:30	0.5	PLAN	WLCOND	RMWAS H	Wash and ream from 18,630' to 18,677', adjust pressures and orient tool face.
9/17/2014 08:30	9/17/2014 12:00	3.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18677' to 18702' (25' @ 7.1 fph). 180 GTF, WOB 20k, SPP 4350, motor diff 150, 460 GPM.
9/17/2014 12:00	9/17/2014 13:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 18702' to 18740' (38' @ 25.3 fph). WOB 8k, 70 rpm, SPP 4200, motor diff 120, 460 GPM, torque 9k
9/17/2014 13:30	9/17/2014 16:30	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18740' to 18760' (20' @ 13.3 fph). 180 GTF, WOB 10k, SPP 4150, motor diff 100, 460 GPM.
9/17/2014 16:30	9/17/2014 18:00	1.5	UNPLAN	EQUIP	U_RIG	Work on #1 pump. Replace seats and valves.
9/17/2014 18:00	9/17/2014 20:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 18763' to 18802' (39' @ 15.6 fph). WOB 18k, 70 rpm, SPP 4250, motor diff 120, 460 GPM, torque 10000k.
9/17/2014 20:30	9/17/2014 22:30	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18802' to 18822' (20' @ 10 fph). 180 GTF, WOB 35k, SPP 4100, motor diff 100, 460 GPM.
9/17/2014 22:30	9/18/2014 03:30	5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 18822' to 18958' (136' @ 27.2 fph). WOB 12k, 70 rpm, SPP 4250, motor diff 270, 460 GPM, torque 11000k.
9/18/2014 03:30	9/18/2014 06:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 18958' to 18978' (20' @ 8 fph). 180 GTF, WOB 35k, SPP 4100, motor diff 100, 460 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 51 Daily Operation: 9/18/2014 06:00 - 9/19/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
47	51	19,399.0	10,610.8	12.40	PATTERSON - UTI, 220			

### Operations Summary

Drl lateral 18978' to 19399' (421' @ 18.3 fph); 86% complete; 80% rot, 20% sldg; 50' right, 3' high; CBHT 208 F; plan #6.

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 19,292', INC 90.13°, AZM 164.18°, 3' Above, 50' Right

Projection @ 19.399' INC 90.13°, AZM 164.18°

Last Sample @ 19,138', 50% Shale 40% LS 10% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 4 hrs

Total Rig Downtime: 224.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/18/2014 06:00	9/18/2014 08:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide from 18978' to 18984' (6' @ 2.4 fph). 180 GTF, WOB 25k, SPP 4250, motor diff 100, 460 GPM.
9/18/2014 08:30	9/18/2014 11:30	3	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate from 18984' to 19053' (69' @ 23 fph). WOB 12k, 70 rpm, SPP 4330, motor diff 230, 460 GPM, torque 9000k.
9/18/2014 11:30	9/18/2014 12:30	1	PLAN	EQUIP	RIGSER	Rig Service
9/18/2014 12:30	9/18/2014 14:30	2	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	Slide from 19053' to 19078' (25' @ 12.5 fph). 180 GTF, WOB 10k, SPP 4270, motor diff 160, 460 GPM.
9/18/2014 14:30	9/19/2014 06:00	15.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate from 19078' to 19399' (321' @ 20.7 fph). WOB 15k, 70 rpm, SPP 4300, motor diff 290, 460 GPM, torque 11k.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 52 Daily Operation: 9/19/2014 06:00 - 9/20/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
48	52	19,652.0	10,611.2	12.40	PATTERSON - UTI, 220	

### Operations Summary

Drld lateral 19399' to 19652' (253' @ 13.3 fph); 88% complete; 45% rot, 55% sldg; 43' right, 5' high; CBHT 198 F; plan #6.

Drilling time 19 hrs

Down 4.5 hrs working on pumps.

0.5 hrs rig service

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 19,481', INC 89.60°, AZM 162.78°, 5' Above, 43' Right

Projection @ 19.525' INC 89.60°, AZM 162.78°

Last Sample @ 19,610', 60% Shale, 20% LS, 20% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 4.5 hrs

Total Rig Downtime: 229 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/19/2014 06:00	9/19/2014 09:30	3.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 19399' to 19413' (14' @ 4 fph). 180 GTF, WOB 35k, SPP 4200, motor diff 100, 460 GPM.
9/19/2014 09:30	9/19/2014 10:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 19413' to 19430' (17' @ 34 fph). WOB 10k, 70 rpm, SPP 4165, motor diff 180, 460 GPM, torque 10k.
9/19/2014 10:00	9/19/2014 10:30	0.5	PLAN	EQUIP	RIGSER	Rig Service
9/19/2014 10:30	9/19/2014 12:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 19430' to 19462' (32' @ 21.3 fph). , WOB 38k, 70 rpm, SPP 4250, motor diff 100, 460 GPM, torque 10k.
9/19/2014 12:00	9/19/2014 14:00	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 19462' to 19483' (21' @ 10.5 fph). 180 GTF, WOB 38k, SPP 4250, motor diff 110, 460 GPM.
9/19/2014 14:00	9/19/2014 18:30	4.5	UNPLAN	EQUIP	U_RIG	Circulate with # 1 pump and change out piston on # 2 pump, valves and seats on # 2 pump, reinstall retainer bolt on # 1 pump suction valve guide. Replace valve and seat in #1 pump.
9/19/2014 18:30	9/19/2014 20:30	2	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 19483' to 19497' (14' @ 7 fph). 180 GTF, WOB 30k, SPP 4200, motor diff 100, 445 GPM.
9/19/2014 20:30	9/20/2014 00:00	3.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 19497' to 19557' (60' @ 17.1 fph). WOB 15k, 70 rpm, SPP 4000, motor diff 150, 425 GPM, torque 10k.
9/20/2014 00:00	9/20/2014 03:00	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 19557' to 19569' (12' @ 4 fph). 180 GTF, WOB 30k, SPP 4000, motor diff 100, 445 GPM.
9/20/2014 03:00	9/20/2014 06:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 19569' to 19652' (83' @ 27.7 fph). WOB 15k, 70 rpm, SPP 4000, motor diff 150, 425 GPM, torque 10k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 53 Daily Operation: 9/20/2014 06:00 - 9/21/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
49	53	20,109.0	10,606.2	12.40	PATTERSON - UTI, 220		

### Operations Summary

Drid lateral 19652' to 20109' (457' @ 26.1 fph); 93% complete; 91% rot, 9% sldg; 11' right, 5' high; CBHT 203 F; plan #6.

6.5 hrs down time

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 20,047', INC 93.03°, AZM 163.92°, 5' Above, 11' Right

Projection @ 20,091' INC 93.03°, AZM 163.92°

Last Sample @ 20,105', 60% Shale, 20% LS, 20% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 6.5 hrs

Total Rig Downtime: 235.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/20/2014 06:00	9/20/2014 12:00	6	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 19652' to 19809' (157' @ 26.2 fph). WOB 15k, 70 rpm, SPP 4200, motor diff 275, 438 GPM, torque 10k.
9/20/2014 12:00	9/20/2014 13:00	1	UNPLAN	EQUIP	U_RIG	Circulate with # 2 pump @ 80 spm and work string full stand, change out # 3 pot discharge valve and seat.
9/20/2014 13:00	9/20/2014 15:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 19809' to 19889' (80' @ 32 fph). WOB 15k, 70 rpm, SPP 4270, motor diff 202, 438 GPM, torque 12k.
9/20/2014 15:30	9/20/2014 17:30	2	UNPLANNED	Rig-related problems (BOPE, etc)	U_RIG	Circulate with #1 pump, change out valves and seats in #1 and #3 modules
9/20/2014 17:30	9/21/2014 00:00	6.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 19889' to 20091' (202' @ 31.1 fph). , WOB 20k, 70 rpm, SPP 4200, motor diff 200, 424 GPM, torque 11k.
9/21/2014 00:00	9/21/2014 01:00	1	UNPLAN	EQUIP	U_DIR	Circulate wellbore while orienting tool face
9/21/2014 01:00	9/21/2014 02:00	1	UNPLAN	EQUIP	U_RIG	Circulate with #2 pump, change out valve on #2 module
9/21/2014 02:00	9/21/2014 03:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20091' to 20101' (10' @ 10 fph). , WOB 20k, 70 rpm, SPP 4200, motor diff 200, 424 GPM, torque 11k.
9/21/2014 03:00	9/21/2014 04:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20101' to 20109' (8' @ 5.3 fph). 180 GTF, WOB 30k, SPP 3875, motor diff 100, 424 GPM.
9/21/2014 04:30	9/21/2014 05:00	0.5	UNPLAN	EQUIP	U_DIR	Trouble shoot MWD tools. Isolate pumps
9/21/2014 05:00	9/21/2014 06:00	1	UNPLAN	EQUIP	U_DIR	Circulate wellbore while orienting tool face

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 54 Daily Operation: 9/21/2014 06:00 - 9/22/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
50	54	20,317.0	10,604.6	12.40	PATTERSON - UTI, 220		

### Operations Summary

Drid lateral 20109' to 20317' (208' @ 10.7 fph); 95% complete; 23% rot, 77% sldg; 5' right, 10' high; CBHT 200 F; plan #6.

Down time 4hrs. 1 hr trouble shoot MWD and 3 hrs working on pump

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 20,236', INC 88.90°, AZM 164.80°, 10' Above, 5' Right

Projection @ 20,280' INC 88.90°, AZM 164.80°

Last Sample @ 20,226', 60% Shale, 30% LS, 10% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 4 hrs

Total Rig Downtime: 239.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/21/2014 06:00	9/21/2014 07:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20109' to 20113' (4' @ 2.7 fph). 180 GTF, WOB 35k, SPP 4120, motor diff 135, 438 GPM.
9/21/2014 07:30	9/21/2014 08:30	1	UNPLAN	EQUIP	U_DIR	Lost sync with MWD, trouble shoot equipment found connection under water, change transducer.
9/21/2014 08:30	9/21/2014 11:30	3	UNPLAN	EQUIP	U_DIR	Circulate with # 2 pump and change out valves and seats on # 1 pump (pots 1 & 2 suction and discharge) clean out suction manifold on # 1 pump, full of solids causing the pump to starve for fluid.
9/21/2014 11:30	9/21/2014 14:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20113' to 20132' (19' @ 7.6 fph). 180 GTF, WOB 35k, SPP 3075, motor diff 125, 373 GPM.
9/21/2014 14:00	9/21/2014 15:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20132' to 20151' (19' @ 19 fph). , WOB 25k, 70 rpm, SPP 3634, motor diff 250, 387 GPM, torque 13k.
9/21/2014 15:00	9/21/2014 19:00	4	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20151' to 20171' (20' @ 5 fph). 180 GTF, WOB 38k, SPP 3650, motor diff 130, 390 GPM.
9/21/2014 19:00	9/21/2014 19:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20171' to 20184' (13' @ 26 fph). WOB 20k, 70 rpm, SPP 4150, motor diff 300, 424 GPM, torque 12k.
9/21/2014 19:30	9/21/2014 20:00	0.5	PLAN	EQUIP	RIGSER	Service rig. Grease all zerts. Check fluid levels on all equipment and fill as needed.
9/21/2014 20:00	9/21/2014 20:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20184' to 20190' (6' @ 12 fph). , WOB 20k, 70 rpm, SPP 4150, motor diff 300, 424 GPM, torque 12k.
9/21/2014 20:30	9/22/2014 02:30	6	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20190' to 20215' (25' @ 4.2 fph). 180 GTF, WOB 27k, SPP 3950, motor diff 125, 424 GPM.
9/22/2014 02:30	9/22/2014 05:00	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20215' to 20312' (97' @ 38.8 fph). WOB 20k, 70 rpm, SPP 4150, motor diff 300, 424 GPM, torque 12k.
9/22/2014 05:00	9/22/2014 06:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20312' to 20317' (5' @ 5 fph). 180 GTF, WOB 27k, SPP 3950, motor diff 125, 424 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 55 Daily Operation: 9/22/2014 06:00 - 9/23/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
51	55	20,608.0	10,605.2	12.40	PATTERSON - UTI, 220			

### Operations Summary

Drid lateral 20317' to 20608' (291' @ 13.2 fph); 98% complete; 39% rot, 61% sldg; 10' right, 8' high; CBHT 200 F; plan #6.

Downtime: 1.5 hrs / 1 hr troubleshooting MWD, 1 hr working on mud pump

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @

Rig release:

Last Survey : @ 20,519', INC 90.48°, AZM 168.93°, 8' Above, 17' Right

Projection @ 20,563' INC 90.48°, AZM 168.93°

Last Sample @ 20,743', 60% Shale, 20% LS, 20% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 1.5 hrs

Total Rig Downtime: 241 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/22/2014 06:00	9/22/2014 09:00	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20317' to 20332' (15' @ 5 fph). 180 GTF, WOB 20k, SPP 4025, motor diff 155, 424 GPM.
9/22/2014 09:00	9/22/2014 10:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20332' to 20374' (42' @ 28 fph). WOB 10k, 70 rpm, SPP 4050, motor diff 120, 424 GPM, torque 10k
9/22/2014 10:30	9/22/2014 11:00	0.5	PLAN	EQUIP	RIGSER	Rig Service
9/22/2014 11:00	9/22/2014 15:30	4.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20374' to 20399' (25' @ 5.6 fph). 180 GTF, WOB 15k, SPP 4000, motor diff 100, 424 GPM.
9/22/2014 15:30	9/22/2014 17:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20399' to 20437' (38' @ 25.3 fph). WOB 16k, 70 rpm, SPP 4120, motor diff 150, 424 GPM, torque 11k.
9/22/2014 17:00	9/22/2014 17:30	0.5	UNPLAN	EQUIP	U_RIG	Circulate with #2 pump, repair liner washer on #1 pump
9/22/2014 17:30	9/22/2014 19:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20437' to 20469' (32' @ 21.3 fph). WOB 20k, 70 rpm, SPP 4250, motor diff 350, 424 GPM, torque 11k.
9/22/2014 19:00	9/22/2014 19:30	0.5	UNPLAN	EQUIP	U_DIR	Troubleshoot MWD surface equipment, change out Transducer on stand pipe
9/22/2014 19:30	9/22/2014 20:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20469' to 20479' (10' @ 20 fph). WOB 20k, 70 rpm, SPP 4250, motor diff 350, 424 GPM, torque 11k.
9/22/2014 20:00	9/22/2014 20:30	0.5	UNPLAN	EQUIP	U_DIR	Circulate and work pipe while troubleshooting MWD surface equipment
9/22/2014 20:30	9/22/2014 21:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20479' to 20491' (12' @ 24 fph). WOB 20k, 70 rpm, SPP 3940, motor diff 270, 416 GPM, torque 11k.
9/22/2014 21:00	9/23/2014 00:00	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20491' to 20508' (17' @ 5.7 fph). 180 GTF, WOB 27k, SPP 3900, motor diff 100, 416 GPM.
9/23/2014 00:00	9/23/2014 02:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20508' to 20574' (66' @ 33 fph). WOB 15k, 70 rpm, SPP 4250, motor diff 270, 416 GPM, torque 11k.
9/23/2014 02:00	9/23/2014 05:00	3	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	Slide from 20574' to 20598' (24' @ 8 fph). 180 GTF, WOB 20k, SPP 3900, motor diff 100, 416 GPM.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/23/2014 05:00	9/23/2014 06:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20598' to 20608' (10' @ 10 fph). WOB 15k, 70 rpm, SPP 4250, motor diff 270, 416 GPM, torque 11k.

Report #: 56 Daily Operation: 9/23/2014 06:00 - 9/24/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 52	Days on Location (days) 56	End Depth (ftKB) 20,743.0	End Depth (TVD) (ftKB) 10,603.8	Dens Last Mud (lb/gal) 12.40	Rig PATTERSON - UTI, 220	

#### Operations Summary

Drld lateral 20608' to 20743' (135' @ 27 fph); 100% complete @ 11:30 hrs 9/23/2014; 100% rot; 17' right, 8' high; CBHT 200 F; plan #6.

Condition mud and circulate - pump sweeps. TOOH to shoe. TIH back to bottom for wiper trip.  
Down time 0.5 hrs working on pump

#### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC on  
Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636  
Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2  
Production-

Spud Surface: 8/2/2014 @ 2330 hrs  
TD Surface: 8/4/2014 @ 00:00  
Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.  
TD Intermediate: 8/19/2014 @ 0300 hrs  
Start Drilling Curve Section; 8/24/2014 @ 2000 hrs  
Landed Curve: 8/26/2014 @ 0900 hrs  
Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs  
TD well @ 11:30 hrs on 9/23/2014

Rig release:  
Last Survey : @ 20,699', INC 91.54°, AZM 169.37°, 8' Above, 17' Right  
Projection @ 20,743' INC 91.54°, AZM 169.37°

Last Sample @ 20,743', 60% Shale, 10% LS, 30% Sand  
No Accidents, No Incidents or Spills Reported.  
Day Rig Downtime: 0.5 hrs  
Total Rig Downtime: 241.5 hrs  
Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/23/2014 06:00	9/23/2014 09:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20608' to 20683' (75' @ 25 fph). WOB 15k, 70 rpm, SPP 4150, motor diff 220, 416 GPM, torque 11k.
9/23/2014 09:00	9/23/2014 09:30	0.5	UNPLAN	EQUIP	U_RIG	Circulate with # 1 pump, change out swab on # 2 pump pot # 3.
9/23/2014 09:30	9/23/2014 11:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate from 20683' to 20743' (60' @ 30 fph). WOB 10k, 70 rpm, SPP 4050, motor diff 100, 416 GPM, torque 10k. TD. 20,743' MD. @ 11:30 hrs.
9/23/2014 11:30	9/23/2014 15:00	3.5	PROD-CIRC	CIRCULATE	CIRC	TD Well @ 20,743' MD, perform clean up cycle, work string and pump 2 sweeps 1500 strokes apart and circulate out, circulate hole clean.
9/23/2014 15:00	9/24/2014 06:00	15	PROD-TRIP	TRIP	TRIP	Trip out of hole from 20,743' to 10,037' for wiper trip, trip back in hole

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 57 Daily Operation: 9/24/2014 06:00 - 9/25/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 53	Days on Location (days) 57	End Depth (ftKB) 20,743.0	End Depth (TVD) (ftKB) 10,603.8	Dens Last Mud (lb/gal) 12.60	Rig PATTERSON - UTI, 220	

Operations Summary  
TIH from 18,915' to 20,249'. Wash / ream from 20,316' to 20,743'. Condition mud and circulate, Stand back 30 stands from 20,743' to 17,922'. LDDP. Service rig. LDDP

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC on

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014,spoke w/Audrey oprator #2

Production-

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @ 11:30 hrs on 9/23/2014

Rig release:

Last Survey : @ 20,699', INC 91.54°, AZM 169.37°, 8' Above, 17' Right

Projection @ 20,743' INC 91.54°, AZM 169.37°

Last Sample @ 20,743', 60% Shale, 10% LS, 30% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 241.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/24/2014 06:00	9/24/2014 09:30	3.5	PROD-TRIP	TRIP	TRIP	Trip in hole from 18,915' to 20,249' ( work tight spots @ 17,960', 18,902', 18,915', 18,968', 19,085', 19,477', 19,661', 20,316'
9/24/2014 09:30	9/24/2014 10:30	1	PLAN	WLCOND	RMWASH	Wash and Ream from 20,316' to 20,743' WOB 10K, RPM 75, GPM 410, TORQUE 12K
9/24/2014 10:30	9/24/2014 17:00	6.5	PROD-CIRC	CIRCULATE	CIRC	Perform clean up cycle,work string and pump 2 sweeps 2000 strokes apart and circulate out, circulate hole clean.
9/24/2014 17:00	9/24/2014 20:00	3	PROD-TRIP	TRIP	TRIP	Trip out of hole from 20,743' to 17,922'
9/24/2014 20:00	9/25/2014 03:00	7	PROD-TRIP	TRIP	TRIP	Lay down drill pipe from 17,922' to 11,551'
9/25/2014 03:00	9/25/2014 03:30	0.5	PLAN	EQUIP	RIGSER	Service rig. Grease all zerts. Check fluid levels on all equipment and fill as needed. Change dies in ST-80
9/25/2014 03:30	9/25/2014 06:00	2.5	PROD-TRIP	TRIP	TRIP	Lay down drill pipe from 11,551' to 8000'



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 58 Daily Operation: 9/25/2014 06:00 - 9/26/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 54	Days on Location (days) 58	End Depth (ftKB) 20,743.0	End Depth (TVD) (ftKB) 10,603.8	Dens Last Mud (lb/gal) 12.60	Rig PATTERSON - UTI, 220	

### Operations Summary

Lay down drill pipe, lay down BHA, bit & MWD tools, pull wear bushing, clean floor, hold safety meeting with all service hands on location, rig up CRT tool, casing crew to start running 5 1/2" casing,

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC On;

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production- 9/25/2014 Notified TRRC With the intent to run Production casing on 9/25/2014 and Cement positably on 9/27/2014 I Cecil Smith spoke with (Corenna) on 9/25/2014 @ 14:00 Oper. #2 at TRCC.

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @ 11:30 hrs on 9/23/2014

### Rig release:

Last Survey : @ 20,699', INC 91.54°, AZM 169.37°, 8' Above, 17' Right

Projection @ 20,743' INC 91.54°, AZM 169.37°

Last Sample @ 20,743', 60% Shale, 10% LS, 30% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 241.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/25/2014 06:00	9/25/2014 19:30	13.5	PROD-TRIP	TRIP	TRIP	Laying down 5.5" drill pipe Ran 25 stands in hole out of the derrick Continue laying down 5.5" drill pipe
9/25/2014 19:30	9/25/2014 22:00	2.5	PLAN	EQUIP	BHA	Lay down BHA, bit, MWD tools, clean rig floor
9/25/2014 22:00	9/25/2014 23:00	1	PLAN	EQUIP	WLHEAD	Pull wear bushing
9/25/2014 23:00	9/26/2014 01:30	2.5	PROD-CASE	RUN PRODUCTION CASING	CASE	Rig up CRT tools & casing equ. to run 5 1/2" casing
9/26/2014 01:30	9/26/2014 06:00	4.5	PROD-CASE	RUN PRODUCTION CASING	CASE	Make up shoe, float collar & stage tool, running casing



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 59 Daily Operation: 9/26/2014 06:00 - 9/27/2014 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
55	59	20,743.0	10,603.8	12.70	PATTERSON - UTI, 220	

### Operations Summary

Rig down Tesco casing crew, rig up Express casing & start running casing f/ 928'--10025', fill pipe every 30 jts, cir. bottoms up @ 10025', @ 14890' had to lay out 2 jts # 354 & 355, running in hole @ 16000'

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC On;

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production- 9/25/2014 Notified TRRC With the intent to run Production casing on 9/25/2014 and Cement positably on 9/27/2014 I Cecil Smith spoke with (Corenna) on 9/25/2014 @ 14:00 Oper. #2 at TRCC.

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @ 11:30 hrs on 9/23/2014

Rig release:

Last Survey : @ 20,699', INC 91.54°, AZM 169.37°, 8' Above, 17' Right

Projection @ 20,743' INC 91.54°, AZM 169.37°

Last Sample @ 20,743', 60% Shale, 10% LS, 30% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 241.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/26/2014 06:00	9/26/2014 08:00	2	PROD-CASE	RUN PRODUCTION CASING	CASE	Attempting to run 5.5 production casing with Tesco casing services and we where having trouble getting the CRT to line up and stab into the casing and they seem to not care about fixing the problem. and at that point we have run only 25 joints of casing in 4.5 hrs. I then called (Sergio Marin) and we made the decision to rig down Tesco services and call Express casing services to come out and rig up.
9/26/2014 08:00	9/26/2014 10:30	2.5	UNPLAN	OTHR	U_OTR	Rig down Tesco casing services and rig up long bells while waiting on Express casing services to arrive on location.
9/26/2014 10:30	9/26/2014 12:00	1.5	UNPLAN	OTHR	U_OTR	Rig up Express casing services and held safety meeting with casing crews, torque turn and CRT
9/26/2014 12:00	9/26/2014 21:00	9	PROD-CASE	RUN PRODUCTION CASING	CASE	Begin running 5.5" 20# Txp-Btc casing with Express casing services Fill every 30 joints Starting depth 928' t/ 10025'
9/26/2014 21:00	9/26/2014 22:30	1.5	PLAN	WLCOND	CIRC	Fill pipe & cir. bottom up @ 10025'
9/26/2014 22:30	9/27/2014 06:00	7.5	PROD-CASE	RUN PRODUCTION CASING	CASE	Running 5 1/2" casing f/ 10025'--16000'

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 60 Daily Operation: 9/27/2014 06:00 - 9/28/2014 06:00

Job Category ORIG DRILLING				Primary Job Type ODR			AFE Number 030879	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
56	60	20,743.0	10,603.8	12.70	PATTERSON - UTI, 220			

### Operations Summary

Run casing f/ 16000' t/ 20106', wash to bottom 20743', pick up hanger tool & set, rig down casing crew, rig up Schlumberger, Test line to 4500 psi, pump 40 bbl mud push @ 12.9, pump 297 bbl @ 13 ppg, pump tail 461 bbl @ 13.5 ppg, drop plug, did look to make sure plug went, pump 557 bbl of displacement, bump plug 500 over pumping psi, plug held, release psi, rig down Schlumberger, pull landing jt, start nipple down of BOP & cleaning mud tanks

### Remarks

Rig move started: 7/30/2014 @ 0600hrs

Accepted rig to drill: 8/2/14 12:00

Total rig move: 8.5 hrs

Contacted: TRRC On;

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey oprator #2

Production- 9/25/2014 Notified TRRC With the intent to run Production casing on 9/25/2014 and Cement positably on 9/27/2014 I Cecil Smith spoke with (Corenna) on 9/25/2014 @ 14:00 Oper. #2 at TRCC.

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @ 11:30 hrs on 9/23/2014

Rig release:

Last Survey : @ 20,699', INC 91.54°, AZM 169.37°, 8' Above, 17' Right

Projection @ 20,743' INC 91.54°, AZM 169.37°

Last Sample @ 20,743', 60% Shale, 10% LS, 30% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 241.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/27/2014 06:00	9/27/2014 10:00	4	PROD-CASE	RUN PRODUCTION CASING	CASE	Begin running 5.5" 20# Txp-Btc casing with Express casing services Fill every 30 joints Starting depth 16000' t/ 20106'
9/27/2014 10:00	9/27/2014 14:00	4	PROD-CASE	RUN PRODUCTION CASING	CASE	Wash 5.5" TXP-BTC P110 casing f/20106' t/20740'
9/27/2014 14:00	9/27/2014 15:30	1.5	PROD-CASE	RUN PRODUCTION CASING	CASE	Tag bottom and lay down 1 joint and make up pup joint and manderule hanger
9/27/2014 15:30	9/27/2014 16:00	0.5	PROD-CASE	RUN PRODUCTION CASING	CASE	Rig down Expres casing crew & CRT tool
9/27/2014 16:00	9/27/2014 18:00	2	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Rig up Schlumberger & hold safety meeting
9/27/2014 18:00	9/28/2014 01:00	7	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Test line to 4500 psi, pump 40 bbl mud push @ 12.9, pump 297 bbl @ 13 ppg, pump tail 461 bbl @ 13.5 ppg, drop plug, did look to make sure plug went, pump 457 bbl of displacement, bump plug 500 over pumping psi, plug held, release psi
9/28/2014 01:00	9/28/2014 02:00	1	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Rig down Schlumberger
9/28/2014 02:00	9/28/2014 02:30	0.5	PLAN	EQUIP	BOPS	Pull landing jt
9/28/2014 02:30	9/28/2014 06:00	3.5	PLAN	EQUIP	BOPS	Nipple down BOP

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

**Report #: 61 Daily Operation: 9/28/2014 06:00 - 9/29/2014 06:00**

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 030879
Days From Spud (days) 57	Days on Location (days) 61	End Depth (ftKB) 20,743.0	End Depth (TVD) (ftKB) 10,603.8	Dens Last Mud (lb/gal) 12.70	Rig PATTERSON - UTI, 220	

### Operations Summary

We transferred approximately 2300 bbls. of OBM to the frac tanks and we shipped it to (Anchor) and we are waiting on a definite amount that we sent back. We are 100% finished cleaning the rig tanks and 80% finished washing the rig and back yard. We are 25% rigged down we did receive 1 crane today and another 1 on Monday to get ready for trucks on Tuesday morning, Release rig @ 6:00 AM 9-29-14

### Remarks

Rig move started: 7/30/2014 @ 0600hrs  
Accepted rig to drill: 8/2/14 12:00  
Total rig move: 8.5 hrs

Contacted: TRRC On;

Surface csg and cement: 7/31/14 10:43 AM Kaylee Job # 12636

Intermediate- Notified TRRC of intent to run casing and pump cement @ 0130 hrs on 8/21/2014, spoke w/Audrey operator #2

Production- 9/25/2014 Notified TRRC With the intent to run Production casing on 9/25/2014 and Cement postably on 9/27/2014 I Cecil Smith spoke with (Corenna) on 9/25/2014 @ 14:00 Oper. #2 at TRCC.

Spud Surface: 8/2/2014 @ 2330 hrs

TD Surface: 8/4/2014 @ 00:00

Start Drilling Intermediate Section; 08/07/2014 @ 12:00 hrs.

TD Intermediate: 8/19/2014 @ 0300 hrs

Start Drilling Curve Section; 8/24/2014 @ 2000 hrs

Landed Curve: 8/26/2014 @ 0900 hrs

Start Drilling Lateral Section; 8/26/2014 @ 0900 hrs

TD well @ 11:30 hrs on 9/23/2014

Rig release: 6:00 AM 9-29-14

Last Survey : @ 20,699', INC 91.54°, AZM 169.37°, 8' Above, 17' Right

Projection @ 20,743' INC 91.54°, AZM 169.37°

Last Sample @ 20,743', 60% Shale, 10% LS, 30% Sand

No Accidents, No Incidents or Spills Reported.

Day Rig Downtime: 0 hrs

Total Rig Downtime: 241.5 hrs

Freeboard : 20"

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
9/28/2014 06:00	9/28/2014 08:00	2	MOBILIZATION	RDMO	RDMO	Nipple down BOP and raise Bop wrangler
9/28/2014 08:00	9/28/2014 10:30	2.5	MOBILIZATION	RDMO	RDMO	Set BOP wrangler and strap it to BOP and lower BOP Set abandonment cap on well head and test to 500 psi. and held for 5 minutes (test good)
9/28/2014 10:30	9/29/2014 03:00	16.5	MOBILIZATION	RDMO	RDMO	We transferred approximately 2300 bbls. of OBM to the frac tanks and we shipped it to (Anchor) and we are waiting on a definite amount that we sent back. We are 40% finished cleaning the rig tanks and 50% finished washing the rig and back yard. we are 15% rigged down we will receive 1 crane today and another 1 on Monday to get ready for trucks on Tuesday morning, Release rig @ 6:00 AM 9-29-14
9/29/2014 03:00	9/29/2014 06:00	3	MOBILIZATION	RDMO	RDMO	Rigging down, prepare rig for move

**Report #: 1 Daily Operation: 10/2/2014 09:30 - 10/2/2014 17:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 61	Days on Location (days)	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

### Operations Summary

Production head/Frac stack Installation

### Remarks

### Time Log Summary

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

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

**Report #: 2 Daily Operation: 10/4/2014 08:45 - 10/4/2014 14:35**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
63	0	0.0				

Operations Summary

Log Casing

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/4/2014 08:45	10/4/2014 09:19	0.58 3	PRESTIM	WIRELINE	RULUB	
10/4/2014 09:19	10/4/2014 11:00	1.66 7	PRESTIM	WIRELINE	WLRUND N	RIH
10/4/2014 11:00	10/4/2014 14:30	3.5	PRESTIM	WIRELINE	WLRUNU P	POOH Logging
10/4/2014 14:30	10/4/2014 14:34	0.08 3	PRESTIM	WIRELINE	RDLUB	

**Report #: 3 Daily Operation: 10/7/2014 07:00 - 10/8/2014 07:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
66	0	0.0				

Operations Summary

Remarks

### Time Log Summary

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

**Report #: 4 Daily Operation: 10/8/2014 06:00 - 10/9/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
67	2	0.0				

Operations Summary

MIRU, WORKOVER RIG, NIPPLE UP BOP & HYDRILL, SET PIPE RACKS & MOVE IN 20,800' OF 2 3/8 PH-6, P-110

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/8/2014 06:00	10/8/2014 14:00	8	PRESTIM	WORKOVER	RU	MIRU, WORKOVER RIG, NIPPLE UP BOP & HYDRILL, SET PIPE RACKS & MOVE IN 20,800' OF 2 3/8 PH-6, P-110.
10/8/2014 14:00	10/8/2014 18:00	4	PRESTIM	WORKOVER	RU	Waiting on Pioneer Well Service to deliver & install parts to raise floor above WH & BOP stack.
10/8/2014 18:00	10/8/2014 20:00	2	PRESTIM	WORKOVER	RIH	Assemble & PU API TCP guns, TIH.
10/8/2014 20:00	10/9/2014 06:00	10	PRESTIM	WORKOVER	RIH	TIH w/ 420 jts (13,188') & API TCP guns.
10/9/2014 06:00	10/9/2014 10:00	4	PRESTIM	WORKOVER	RIH	T.I.H. TO 16,879' (JT # 540 )
10/9/2014 10:00	10/9/2014 12:00	2	PRESTIM	WORKOVER	CIRC	CIRCULATE FR FROM 16,879 TO TOP OF THE CURVE AT 10,085' ( 200 BBL'S )
10/9/2014 12:00	10/9/2014 13:00	1	PRESTIM	WORKOVER	RU	RIG UP 3.5 POWER SWIVEL
10/9/2014 13:00	10/9/2014 18:00	5	PRESTIM	WORKOVER	RIH	CONTINUEING TO RIH USING 3.5 POWER SWIVEL TO ROTATE EACH JT DOWN

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

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

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 68	Days on Location (days) 3	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

Operations Summary  
Finish TIH w/ TCP guns & shoot

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/9/2014 06:00	10/9/2014 22:00	16	PRESTIM	WORKOVER	RIH	Finish TIH w/ API TCP guns & tbgs. Tagged bottom @ 20,514' (4' in on 658 jt), we are 79' off sliding sleeve.  2200 hrs Called office for instructions. Office said to circulate chemicals till we here from engineers.
10/9/2014 22:00	10/9/2014 23:00	1	PRESTIM	WORKOVER	RU	RU kill truck to circulate 1000 gals D-limonene & 2500 gal 15% HCL acid.
10/9/2014 23:00	10/10/2014 04:00	5	PRESTIM	WORKOVER	CIRC	Circulating D-limonene & acid. Flush w/ 350 bbls fresh water (w/ 0.5 gals / 10 bbls FR chemical & 0.5 gals / 20 bbls Super L chemical in last 100 bbls of flush).  2245 hrs Engineer contacted office, office relayed to location that we are going to circulate hole clean, TOH, LD API TCP guns & PU bit to clean obscuration to top of sliding sleeve.
10/10/2014 04:00	10/10/2014 06:00	2	PRESTIM	WORKOVER	POOH	RD power swivel, TOH, stand tbgs back in derrick.

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

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 69	Days on Location (days) 4	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

Operations Summary  
T.O.O.H.

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/10/2014 06:00	10/10/2014 18:00	12	PRESTIM	WORKOVER	POOH	Finish TOH w/ API TCP guns, LD guns.
10/10/2014 18:00	10/10/2014 20:00	2	PRESTIM	WORKOVER	RU	PUMU Supreme BHA (NOV Rock Bit 4.625", ROPER 4.7 motor 2.880", Hydraulic disconnect 2.880", Daul Flapper valve 2.880", Extension 2 3/8" PH6 = 23.41').
10/10/2014 20:00	10/11/2014 06:00	10	PRESTIM	WORKOVER	RIH	TIH w/ Supreme BHA & workstring (@ 0600 - 579 jts - 17992')

**Report #: 7 Daily Operation: 10/11/2014 06:00 - 10/12/2014 06:00**

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 70	Days on Location (days) 5	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	

Operations Summary  
Finish TIH, tagged @ 20,517'

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/11/2014 06:00	10/11/2014 10:00	4	PRESTIM	WORKOVER	RIH	Finished TIH, tagged bottom @ 20,517 - (660 jts).
10/11/2014 10:00	10/11/2014 15:00	5	PRESTIM	WORKOVER	DOCMT	Started drilling on cmt. made 3' in 2.5 hrs. Made no more footage for 2 hrs.  Superintendent on location, made call to engineer. Will TOH check motor.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/11/2014 15:00	10/11/2014 17:00	2	PRESTIM	WORKOVER	POOH	RD power swivel, start TOH.
10/11/2014 17:00	10/12/2014 00:30	7.5	PRESTIM	WORKOVER	POOH	TOH
10/12/2014 00:30	10/12/2014 01:30	1	PRESTIM	WORKOVER	RIH	Out of hole w/ motor & bit. Checking motor to see if it is in working order. Outside teeth on all three cones are worn down smooth. Motor works good on surface.
10/12/2014 01:30	10/12/2014 04:00	2.5	PRESTIM	NONOPS	PADWAI T	Called office reported by phone, office will call engineer. Engineer called back and advised we will run TCP guns as depth as possible.  Contacted API, tech will be on location around 0400 hrs
10/12/2014 04:00	10/12/2014 06:00	2	PRESTIM	WORKOVER	RIH	API arrived location, PUMU TCP guns, start TIH. Depth XXXX' (XXX jts).  Co Man tour change.

Report #: 8 Daily Operation: 10/12/2014 06:00 - 10/13/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
71	6	0.0				

#### Operations Summary

T.I.H. TO 20,517' SHOOT TCP GUNS, PUMP D-LIMONENE, T.O.O.H. L/D 265 JTS. PUMP D-LIMONENE @ 12,290' T.O.O.H. L/D REMAINING WORKSTRING

#### Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/12/2014 06:00	10/12/2014 15:00	9	PRESTIM	WORKOVER	RIH	T.I.H. TO 20,517' - TAGGED & PICKED BACK UP TO STRING WEIGHT. LOADED TUBING. TESTED IRON TO 5,000 PSI. PRESSURED UP TO 5,500 PSI, & FIRED TCP GUNS. GUNS FIRED AT: 20,272' - 20,274' 5 SPF, = 10 SHOTS 20,333' - 20,335' 5 SPF, = 10 SHOTS 20,394' - 20,396' 5 SPF, = 10 SHOTS 20,456' - 20,458' 5 SPF, = 10 SHOTS 20,514' - 20,516' 5 SPF, = 10 SHOTS 50 SHOTS TOTAL.
10/12/2014 15:00	10/12/2014 15:30	0.5	PRESTIM	WORKOVER	TREATMENT	PUMPED 500 GAL. D-LIMONENE FOLLOWED BY 25 BBL FLUSH
10/12/2014 15:30	10/12/2014 18:45	3.25	PRESTIM	WORKOVER	CIRC	DISPLACED D-LIMONENE TREATMENT WITH 425 BBL'S OF BIO-WATER
10/12/2014 18:45	10/13/2014 01:00	6.25	PRESTIM	WORKOVER	POOH	L/D 265 JTS OF 2 3/8 WORKSTRING
10/13/2014 01:00	10/13/2014 02:00	1	PRESTIM	WORKOVER	TREATMENT	AT 12,290' PUMP 500 GAL. OF D-LIMONENE FOLLOWED BY 25 BBL FLUSH
10/13/2014 02:00	10/13/2014 03:30	1.5	PRESTIM	WORKOVER	CIRC	DISPLACED D-LIMONENE TREATMENT WITH 270 BBL'S OF BIO-WATER
10/13/2014 03:30	10/13/2014 06:00	2.5	PRESTIM	WORKOVER	POOH	Start LD rest of tbgs & shot guns.  0600 hrs  365 jts on pipe rack 317 jts in hole (~9800')

Report #: 9 Daily Operation: 10/13/2014 06:00 - 10/14/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
72	6	0.0				

#### Operations Summary

CONTINUE TO T.O.O.H. L/D 2 3/8 WORKSTRING & RIG DOWN WORKOVER RIG "FINAL REPORT"

#### Remarks

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/13/2014 06:00	10/13/2014 10:30	4.5	PRESTIM	WORKOVER	POOH	CONTINUE TO L/D 2 3/8, P-110, PH-6 WORKSTRING.
10/13/2014 10:30	10/13/2014 15:00	4.5	PRESTIM	WORKOVER	RD	NIPPLE DOWN BOP'S. & NIPPLE UP FRAC STACK. RIG DOWN WORKOVER RIG, CLEAN UP LOCATION. RELEASED WORKOVER RIG, & PREPARE TO MOVE TO NEXT LOCATION. "FINAL REPORT"

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

Job Category			Primary Job Type			AFE Number
ORIG COMPLETION			OCM			032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
73	6	0.0			ANDERSON PERFORATING INC, <rigno>	

Operations Summary

Remarks

### Time Log Summary

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

Report #: 11 Daily Operation: 10/15/2014 07:00 - 10/16/2014 06:30

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
74	7	0.0			PUMPCO, <rigno>	

Operations Summary

Frac Stage 1

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/15/2014 07:00	10/15/2014 10:25	3.41 7	STIM	FRAC	PRIME	
10/15/2014 10:25	10/15/2014 10:55	0.5	STIM	FRAC	TEST	Tested Pop-offs
10/15/2014 10:55	10/15/2014 11:15	0.33 3	STIM	NONOPS	SAFETY	Had safety meeting with all parties
10/15/2014 11:15	10/15/2014 14:51	3.6	STIM	FRAC	STIM	Stage 1 Ernest Barrera
10/15/2014 14:51	10/15/2014 15:15	0.4	STIM	WIRELINE	RULUB	
10/15/2014 15:15	10/15/2014 17:04	1.81 7	STIM	WIRELINE	WLRUND N	
10/15/2014 17:04	10/15/2014 17:07	0.05	STIM	WIRELINE	PLUGPE RF	Set Plug @ 20,245'
10/15/2014 17:07	10/15/2014 19:45	2.63 3	STIM	WIRELINE	WLRUNU P	Logging Horizontal coming out after P&P.
10/15/2014 19:45	10/15/2014 19:52	0.13 3	STIM	WIRELINE	RDLUB	
10/15/2014 19:52	10/15/2014 20:16	0.4	STIM	FRAC	PRIME	
10/15/2014 20:16	10/15/2014 20:42	0.41 7	STIM	FRAC	TEST	
10/15/2014 20:42	10/16/2014 06:30	9.8	STIM	FRAC	STIM	Stage 2 Clint Sims/Ernest Barrera

Report #: 12 Daily Operation: 10/16/2014 06:30 - 10/17/2014 06:30

Job Category				Primary Job Type		AFE Number	
ORIG COMPLETION				OCM		032750	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
75	8	0.0			PUMPCO, <rigno>		

Operations Summary

Non Ops

Remarks



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/16/2014 06:30	10/17/2014 06:30	24	STIM	FRAC	STIM	Stage 2: Clint Sims / Ernest Barrera NOTE: Standby most of the day with no activity until 403 am started stage 2 again and was successful to complete stage at 630 on 10/17/14

Report #: 13 Daily Operation: 10/17/2014 06:30 - 10/18/2014 06:15

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 76	Days on Location (days) 9	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <igno>	

Operations Summary  
Frac Stage 2-4

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/17/2014 06:30	10/17/2014 06:45	0.25	STIM	WIRELINE	RULUB	Stage 2: Clint Sims / Ernest Barrera
10/17/2014 06:45	10/17/2014 08:30	1.75	STIM	WIRELINE	WLRUND N	
10/17/2014 08:30	10/17/2014 08:34	0.06 7	STIM	WIRELINE	PLUGPE RF	Set Plug @ 19,932'
10/17/2014 08:34	10/17/2014 09:19	0.75	STIM	WIRELINE	WLRUNU P	
10/17/2014 09:19	10/17/2014 09:29	0.16 7	STIM	WIRELINE	RDLUB	
10/17/2014 09:29	10/17/2014 11:00	1.51 7	STIM	FRAC	PRIME	
10/17/2014 11:00	10/17/2014 11:13	0.21 7	STIM	FRAC	TEST	
10/17/2014 11:13	10/17/2014 13:30	2.28 3	STIM	FRAC	STIM	Stage 3: Ernest Barrera
10/17/2014 13:30	10/17/2014 13:36	0.1	STIM	WIRELINE	RULUB	
10/17/2014 13:36	10/17/2014 15:38	2.03 3	STIM	WIRELINE	WLRUND N	
10/17/2014 15:38	10/17/2014 15:54	0.26 7	STIM	WIRELINE	PLUGPE RF	Set Plug @ 19,646'
10/17/2014 15:54	10/17/2014 16:40	0.76 7	STIM	WIRELINE	WLRUNU P	
10/17/2014 16:40	10/17/2014 16:45	0.08 3	STIM	WIRELINE	RDLUB	
10/17/2014 16:45	10/17/2014 17:10	0.41 7	STIM	FRAC	PRIME	
10/17/2014 17:10	10/17/2014 17:38	0.46 7	STIM	FRAC	TEST	
10/17/2014 17:38	10/17/2014 19:48	2.16 7	STIM	FRAC	STIM	Stage 4: Clint Sims
10/17/2014 19:48	10/17/2014 20:41	0.88 3	STIM	WIRELINE	RULUB	
10/17/2014 20:41	10/17/2014 22:27	1.76 7	STIM	WIRELINE	WLRUND N	
10/17/2014 22:27	10/17/2014 22:31	0.06 7	STIM	WIRELINE	PLUGPE RF	Set Plug @ 19347
10/17/2014 22:31	10/17/2014 23:30	0.98 3	STIM	WIRELINE	WLRUNU P	
10/17/2014 23:30	10/17/2014 23:39	0.15	STIM	WIRELINE	RDLUB	
10/17/2014 23:39	10/18/2014 01:10	1.51 7	STIM	FRAC	PRIME	
10/18/2014 01:10	10/18/2014 03:09	1.98 3	STIM	FRAC	STIM	Stage 5: Clint Sims

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/18/2014 03:09	10/18/2014 03:25	0.267	STIM	WIRELINE	RULUB	
10/18/2014 03:25	10/18/2014 04:47	1.367	STIM	WIRELINE	WLRUND N	
10/18/2014 04:47	10/18/2014 04:53	0.1	STIM	WIRELINE	PLUGPE RF	Set Plug @ 19047
10/18/2014 04:53	10/18/2014 05:47	0.9	STIM	WIRELINE	WLRUNUP	
10/18/2014 05:47	10/18/2014 05:55	0.133	STIM	WIRELINE	RDLUB	
10/18/2014 05:55	10/18/2014 06:15	0.333	STIM	FRAC	PRIME	

Report #: 14 Daily Operation: 10/18/2014 06:15 - 10/19/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 77	Days on Location (days) 10	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

#### Operations Summary

Frac Stage 5-7

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/18/2014 06:15	10/18/2014 07:18	1.057	STIM	FRAC	TEST	
10/18/2014 07:18	10/18/2014 09:19	2.017	STIM	FRAC	STIM	Stage 6 Ernest Barrera
10/18/2014 09:19	10/18/2014 09:30	0.183	STIM	WIRELINE	RULUB	
10/18/2014 09:30	10/18/2014 10:45	1.25	PRESTIM	WIRELINE	WLRUND N	
10/18/2014 10:45	10/18/2014 10:48	0.05	STIM	WIRELINE	PLUGPE RF	Set Plug @ 18,748
10/18/2014 10:48	10/18/2014 11:31	0.717	STIM	WIRELINE	WLRUNUP	
10/18/2014 11:31	10/18/2014 11:40	0.15	STIM	WIRELINE	RDLUB	
10/18/2014 11:40	10/18/2014 12:02	0.367	STIM	FRAC	PRIME	
10/18/2014 12:02	10/18/2014 13:21	1.317	STIM	FRAC	TEST	
10/18/2014 13:21	10/18/2014 15:21	2	STIM	FRAC	STIM	Stage 7 Ernest Barrera
10/18/2014 15:21	10/18/2014 16:15	0.9	STIM	WIRELINE	RULUB	
10/18/2014 16:15	10/18/2014 17:10	0.917	STIM	WIRELINE	WLRUND N	
10/18/2014 17:10	10/19/2014 06:00	12.833	STIM	WIRELINE	PLUGPE RF	Set Plug @ 18,448', But was unsuccessful to perforate last 3 clusters. Pulled out of rope socket. Needing Coil Unit.

Report #: 15 Daily Operation: 10/19/2014 06:00 - 10/20/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 78	Days on Location (days) 11	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO. <rigno>	

#### Operations Summary

Non Ops

Remarks

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/19/2014 06:00	10/20/2014 06:00	24	STIM	NONOPS	REMEDI ATE	Stage 8: Gun lost in hole. Waiting on Coil Tubing to get permits. Will have them Monday.

### Report #: 16 Daily Operation: 10/20/2014 06:00 - 10/21/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 79	Days on Location (days) 12	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	
Operations Summary Non Ops						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/20/2014 06:00	10/21/2014 06:00	24	STIM	NONOPS	REMEDI ATE	Stage 8: Waiting for coil to retrieve gun downhole. Arrived on location @ 1030.

### Report #: 17 Daily Operation: 10/21/2014 06:00 - 10/22/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 80	Days on Location (days) 13	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	
Operations Summary Non Ops						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/21/2014 06:00	10/22/2014 06:00	24	STIM	NONOPS	REMEDI ATE	Stage 8: Waiting for coil to retrieve gun.

### Report #: 18 Daily Operation: 10/22/2014 06:00 - 10/23/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 81	Days on Location (days) 14	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	
Operations Summary Non Ops						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/22/2014 06:00	10/23/2014 06:00	24	STIM	NONOPS	REMEDI ATE	

### Report #: 19 Daily Operation: 10/23/2014 06:00 - 10/24/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 82	Days on Location (days) 15	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., <rigno>	
Operations Summary RIG UNIT UP						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/23/2014 06:00	10/23/2014 09:00	3	POSTSTIM	NONOPS	PLANNE D	DROVE RIG TO LOC. HAD SAFETY MEETING W/ THE RIG CREW.
10/23/2014 09:00	10/23/2014 10:00	1	POSTSTIM	WORKOVER	BLEED	CHECK WELL PRESSURE HAD 2000 PSI, START BLEED OFF THE PRESSURE, OPEN CHOKE AT 20/64, PRESSURE COME DOWN TO 0 PRESSURE STAY RUNNING OVER, 1 BPM ON FULL OPENING CHOKE.
10/23/2014 10:00	10/23/2014 12:00	2	POSTSTIM	NONOPS	PLANNE D	SPOT THE RIG & RIG UNIT UP.
10/23/2014 12:00	10/23/2014 13:00	1	POSTSTIM	WORKOVER	RD	CLOSED BOTTOM MASTER FRAC VALVE, NIPPLE DOWN TOP FRAC VALVE & FLOW CROSS,

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/23/2014 13:00	10/23/2014 14:30	1.5	POSTSTIM	WORKOVER	RU	NIPPLE UP HYDRALICS BOPS,
10/23/2014 14:30	10/23/2014 16:30	2	POSTSTIM	WORKOVER	RU	RIG UP CUDD SNUBBING UNIT, RIG UP EVERYTHING TO RIH W/ THE FISHING TOOLS & 2 7/8 PH-6 TBG.
10/23/2014 16:30	10/23/2014 18:00	1.5	POSTSTIM	WORKOVER	RIH	PICKUP 4 3/8 OD OVER SHOT, W/ 2 7/8 BASKET GRAPPLE, 3' FT EXTENSION, TOP BUSHING, X-OVER, BUMPER SUB, X-OVER, 1- 2 7/8 PH-6 JT, FLOW THRU VALVE, 1- 2 7/8 PH-6 JT, X-OVER, SET LOGANS JARS, X-OVER, 6 2 7/8 PH-6 JTS, NIGHT SHIFT TAKED OVER THE WELL.
10/23/2014 18:00	10/23/2014 18:30	0.5	POSTSTIM	NONOPS	PLANNE D	SAFETY MEETING WITH CREW
10/23/2014 18:30	10/23/2014 20:00	1.5	POSTSTIM	WORKOVER	RIH	RAN IN WITH 50 JOINTS THRU SNUBBING UNIT.
10/23/2014 20:00	10/23/2014 21:00	1	POSTSTIM	WORKOVER	RD	RIGGED DOWN SNUBBING UNIT
10/23/2014 21:00	10/23/2014 22:00	1	POSTSTIM	WORKOVER	RU	RIGGED UP EVERYTHING UP PICK UP TUBING
10/23/2014 22:00	10/24/2014 00:00	2	POSTSTIM	WORKOVER	RU	SET TUBING ON PIPE RACKS AND TALLY TUBING
10/24/2014 00:00	10/24/2014 00:30	0.5	POSTSTIM	NONOPS	PLANNE D	LUNCH BREAK
10/24/2014 00:30	10/24/2014 06:00	5.5	POSTSTIM	WORKOVER	RIH	CONTINUE PICKING UP TUBING. PICKED UP A TOTAL OF 250 JOINTS TO BE @ 7775. CHANGE SHIFT.

Report #: 20 Daily Operation: 10/24/2014 06:00 - 10/25/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750	
Days From Spud (days) 83	Days on Location (days) 16	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	KEY ENERGY SERVICES, INC., <rigno>	

Operations Summary  
PICKUP WORKSTRING TBG.

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/24/2014 06:00	10/24/2014 06:30	0.5	POSTSTIM	NONOPS	PLANNE D	DROVE CREW TO LOC. HAD SAFETY MEETING W/ RIG CREW, DAY SHIFT TAKED OVER THE WELL.
10/24/2014 06:30	10/24/2014 12:00	5.5	POSTSTIM	WORKOVER	RIH	CONTINUE RIH W/ THE TBG & FISHING TOOLS, PICKUP 150 JTS MORE GET TO 12600' FT W/ 400 JTS TOTAL IN THE HOLE PLUS FISHING TOOLS.
10/24/2014 12:00	10/24/2014 12:30	0.5	POSTSTIM	NONOPS	PLANNE D	SHUT DOWN FOR LUNCH.
10/24/2014 12:30	10/24/2014 13:30	1	POSTSTIM	WORKOVER	RU	NIPPLE UP STRIPPER HEAD.
10/24/2014 13:30	10/24/2014 17:00	3.5	POSTSTIM	WORKOVER	RIH	CONTINUE RIH W/ THE TBG & FISHING TOOLS, GET DOWN TO 16652' FT W/ 536 JTS TOTAL IN THE HOLE PLUS TOOLS, & START HAVING PROBLEMS TO KEEP GOING IN THE HOLE.
10/24/2014 17:00	10/24/2014 18:00	1	POSTSTIM	WORKOVER	RU	START RIG UP THE 3.5 POWER SWIVEL, NIGHT SHIFT TAKED OVER THE WELL.
10/24/2014 18:00	10/24/2014 18:30	0.5	POSTSTIM	NONOPS	PLANNE D	SAFETY MEETING WITH CREW
10/24/2014 18:30	10/24/2014 21:00	2.5	POSTSTIM	WORKOVER	RU	FINISH RIGGING UP SWIVEL. AND CHANGE OUT STRIPPER RUBBER
10/24/2014 21:00	10/25/2014 02:30	5.5	POSTSTIM	WORKOVER	RIH	WASH DOWN FROM 16652 TO 18150 WITH 585 JOINTS IN THE HOLE AND THE BASE FOR THE DRILL LINE ON THE RIG BROKE.
10/25/2014 02:30	10/25/2014 03:30	1	POSTSTIM	WORKOVER	RD	GOT EVERYTHING UNTANGLE
10/25/2014 03:30	10/25/2014 06:00	2.5	POSTSTIM	WORKOVER	CIRC	CIRCULATE WELL WHILE WAITING TO FIX RIG. GOT RIG FIXED. CHANGE SHIFT

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 21 Daily Operation: 10/25/2014 06:00 - 10/26/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 032750	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., <rigno>			
84	17	0.0						
Operations Summary CONTINUE RIH W/ THE TBG.								

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/25/2014 06:00	10/25/2014 07:00	1	POSTSTIM	NONOPS	PLANNE D	DROVE CREW TO LOC. HAD SAFETY MEETING W/ RIG CREW & DAY SHIFT TAKED OVER THE WELL.
10/25/2014 07:00	10/25/2014 08:00	1	POSTSTIM	WORKOVER	RU	CONTINUE WORKING ON THE DRILL LINE TILL WE FIXED.
10/25/2014 08:00	10/25/2014 09:00	1	POSTSTIM	WORKOVER	RIH	CONTINUE RIH W/ THE TBG & FISHING TOOLS, GET TO THE TOP OF THE FISH.
10/25/2014 09:00	10/25/2014 10:00	1	POSTSTIM	WORKOVER	FISHING	GET OVER THE FISH, PULL TO 120,000 TO MAKED SURE WE GET OVER, GO BACK DOWN LAYING DOWN THE SWIVEL.
10/25/2014 10:00	10/25/2014 11:00	1	POSTSTIM	WORKOVER	FISHING	START JARRING ON THE FISH, THE JARS WENT OFF ONE TIME & JARS QUIT WORKING. COULD NOT GET JARS TO GO OF AGAIN. MAYBE FRICTION PROBLEMS
10/25/2014 11:00	10/25/2014 13:00	2	POSTSTIM	WORKOVER	CIRC	CIRCULATED THE WELL W/ 20 GLNS COIL BEADS, & 20 GLNS PIPE LUBE & 240 BBLs WATER BEHIND.
10/25/2014 13:00	10/25/2014 14:00	1	POSTSTIM	WORKOVER	FISHING	START JARING PULLED TO 165,000 PNDS, THE FISH MOVE, GET EVERYTHING READY TO POOH W/ THE TBG.
10/25/2014 14:00	10/25/2014 18:00	4	POSTSTIM	WORKOVER	POOH	START POOH W/ THE TBG & THE FISH, PULL 320 JTS OUT, NIGHT SHIFT TAKED OVER THE WELL.
10/25/2014 18:00	10/25/2014 18:30	0.5	POSTSTIM	NONOPS	PLANNE D	SAFETY MEETING WITH CREW
10/25/2014 18:30	10/25/2014 20:30	2	POSTSTIM	NONOPS	PLANNE D	STAND BY FOR KEY TO DO A DRUG TEST ON PULLING UNIT CREW
10/25/2014 20:30	10/25/2014 22:00	1.5	POSTSTIM	WORKOVER	POOH	CONTINUE PULLING TUBING. PULLED 45 STANDS
10/25/2014 22:00	10/26/2014 00:00	2	POSTSTIM	WORKOVER	POOH	CONTINUE PULLING TUBING. LAYED DOWN 87 JOINTS. LEFT 100 JOINTS IN THE HOLE FOR THE SNUBBING UNIT
10/26/2014 00:00	10/26/2014 00:30	0.5	POSTSTIM	NONOPS	PLANNE D	LUNCH BREAK
10/26/2014 00:30	10/26/2014 02:30	2	POSTSTIM	NONOPS	PLANNE D	GOT EVERYTHING READY FOR SNUBBING UNIT
10/26/2014 02:30	10/26/2014 05:30	3	POSTSTIM	NONOPS	PLANNE D	STAND BY FOR SNUBBING
10/26/2014 05:30	10/26/2014 06:00	0.5	POSTSTIM	WORKOVER	RU	STARTED TO RIG UP SNUBBING UNIT. CHANGE TO DAY SHIFT

Report #: 22 Daily Operation: 10/26/2014 06:00 - 10/27/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 032750	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)		End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	KEY ENERGY SERVICES, INC., <rigno>	
85	18	0.0						
Operations Summary SNUBBING OUT 100 JTS.								

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/26/2014 06:00	10/26/2014 07:00	1	POSTSTIM	NONOPS	PLANNE D	DROVE CREW TO LOC. HAD SAFETY MEETING W/ RIG CREW.
10/26/2014 07:00	10/26/2014 08:30	1.5	POSTSTIM	WORKOVER	RU	DAY SHIFT TAKED OVER THE WELL, CONTINUE RIGGING UP SNUBBING UNIT.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/26/2014 08:30	10/26/2014 12:00	3.5	POSTSTIM	WORKOVER	POOH	POOH W/ THE REST OF THE TBG, 100 JTS PLUS FISHING TOOLS, LAYING DOWN OVER SHOT W/ THE FISH, WE GOT ALL THE PERFORATIONS GUNS & THE SEATING TOOL.
10/26/2014 12:00	10/26/2014 12:30	0.5	POSTSTIM	NONOPS	PLANNE D	SHUT DOWN FOR LUNCH.
10/26/2014 12:30	10/26/2014 13:30	1	POSTSTIM	NONOPS	PLANNE D	STANDBY WAIT ON BAKER HUGHES TOOLS.
10/26/2014 13:30	10/26/2014 14:00	0.5	POSTSTIM	WORKOVER	RU	PICKUP 4 5/8 FIVE BLADE JUNK MILL, 2 7/8 DOWN HOLE MOTOR, RIH W/ 2 7/8 PH-6 WORKSTRING TBG.
10/26/2014 14:00	10/26/2014 15:30	1.5	POSTSTIM	WORKOVER	RIH	RIH 100 JTS W/ THE SNUBBING UNIT ON.
10/26/2014 15:30	10/26/2014 17:45	2.25	POSTSTIM	WORKOVER	RD	RIG DOWN SNUBBING UNIT.
10/26/2014 17:45	10/26/2014 18:30	0.75	POSTSTIM	WORKOVER	RU	NIPPLE UP STRIPPER HEAD.
10/26/2014 18:30	10/26/2014 20:00	1.5	POSTSTIM	WORKOVER	RIH	RIH W/ 50 JTS MORE TO COMPLETED 150 JTS TOTAL IN THE HOLE, LOAD THE TBG W/ 26 BBLs WATER.
10/26/2014 20:00	10/26/2014 21:00	1	POSTSTIM	NONOPS	PLANNE D	CLOSED THE WELL & SHUT DOWN, & DROVE CREW BACK HOME.

### Report #: 23 Daily Operation: 10/27/2014 06:00 - 10/28/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 86	Days on Location (days) 19	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., <rigno>	

#### Operations Summary

STAND-BY FOR A SAFETY MEETING

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/27/2014 06:00	10/28/2014 06:00	24	POSTSTIM	NONOPS	PLANNE D	STAND- BY FOR SAFETY MEETING, & CONTINUE ON STAND- BY TILL WE GET ALL THE EQUIPMENT ON SAFE CONDITION.

### Report #: 24 Daily Operation: 10/28/2014 06:00 - 10/29/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 87	Days on Location (days) 20	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., <rigno>	

#### Operations Summary

STAND-BY ON LEL MONITOR.

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/28/2014 06:00	10/28/2014 15:30	9.5	STIM	NONOPS	PLANNE D	STAND-BY ON LEL MONITOR.
10/28/2014 15:30	10/28/2014 16:00	0.5	POSTSTIM	NONOPS	SAFETY	SAFETY MEETING.
10/28/2014 16:00	10/28/2014 18:00	2	POSTSTIM	WORKOVER	RIH	WH=1250 PSI. BLED PRESSURE DOWN TO 0 PSI (HEAD GAS). OPEN WELL. TIH W/ BHA & 150 JTS OF 2 7/8" 7.9 PH-6 TBG.
10/28/2014 18:00	10/28/2014 18:15	0.25	POSTSTIM	WORKOVER	RIH	SHIFT CHANGE TO NIGHT TIME OPERATIONS.
10/28/2014 18:15	10/28/2014 19:00	0.75	POSTSTIM	WORKOVER	RIH	CONTINUE RIH W/ BHA & 2-7/8" 7.9# PH 6 TBG. 430 TOTAL JTS IN WELL.
10/28/2014 19:00	10/28/2014 19:30	0.5	POSTSTIM	NONOPS	SAFETY	SAFETY MEETING.
10/28/2014 19:30	10/28/2014 20:15	0.75	POSTSTIM	NONOPS	PLANNE D	RE-SPOT LIGHT PLANTS.
10/28/2014 20:15	10/28/2014 21:00	0.75	POSTSTIM	WORKOVER	RIH	CONTINUED RIH W/ TBG. 470 TOTAL JTS IN WELL.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/28/2014 21:00	10/28/2014 22:00	1	POSTSTIM	WORKOVER	RIH	TIED BACK TO SIX LINES. LOAD TBG W/ 7 BBLS OF WATER.
10/28/2014 22:00	10/28/2014 23:00	1	POSTSTIM	WORKOVER	RIH	CONTINUE IN HOLE W/ 6 MORE JTS OF 2-7/8" TBG (476 TOTAL IN WELL) & STARTED HAVING PROBLEMS RIH W/ TBG. POSSIBLE FRICTION PROBLEMS. HAD 34 JTS LEFT IN DERRICK.
10/28/2014 23:00	10/29/2014 00:00	1	POSTSTIM	WORKOVER	RIH	POOH & LD 34 JTS OF 2-7/8" TBG.
10/29/2014 00:00	10/29/2014 00:30	0.5	POSTSTIM	NONOPS	PLANNE D	LUNCH BREAK.
10/29/2014 00:30	10/29/2014 01:10	0.66 7	POSTSTIM	WORKOVER	RIH	RIH W/ 34 JTS FROM DERRICK.
10/29/2014 01:10	10/29/2014 02:40	1.5	POSTSTIM	WORKOVER	RU	RU 3.5 PS.
10/29/2014 02:40	10/29/2014 03:30	0.83 3	POSTSTIM	WORKOVER	RU	CHANGE OUT STRIPPER HEAD RUBBER.
10/29/2014 03:30	10/29/2014 06:00	2.5	POSTSTIM	WORKOVER	RIH	SWIVEL 27 JTS OF TBG IN HOLE. 503 TOTAL JTS IN WELL AT REPORT TIME.FCP - 180 PSI, 1 BPM RETURNS TO TANK.30 BBLS/OIL ON LOCATION.

Report #: 25 Daily Operation: 10/29/2014 06:00 - 10/30/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 88	Days on Location (days) 21	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., <rigno>	

### Operations Summary

RIH CLEAN OUT RUN.

### Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/29/2014 06:00	10/29/2014 06:30	0.5	POSTSTIM	NONOPS	PLANNE D	SHIFT CHANGE TO DAYTIME OPERATIONS.
10/29/2014 06:30	10/29/2014 07:00	0.5	POSTSTIM	NONOPS	SAFETY	SAFETY MEETING.
10/29/2014 07:00	10/29/2014 12:00	5	POSTSTIM	WORKOVER	RIH	CONTINUE TO RIH W/ 30 JTS OF 2 7/8" WORKSTRING. A TOTAL OF 533 JTS IN THE HOLE @ ~ 16,526'. TBG WOULDN'T GO IN THE HOLE DUE TO FRICTION LOCK. MIXED 20 GALS OF FR BEADS & 10 GALS OF PIPE LUBE W/ 40 BBLS OF FRESH WTR. PUMP PILL DOWN THE TBG AND OVER DISPLACED W/ 110 BBLS OF FRESH WTR. (WORKING TBG UP/DOWN WHILE PUMPING). CONTINUE TO TIH W/ 20 JTS OF 2 7/8" WORKSTRING A TOTAL OF 553 JTS IN THE HOLE (FIGHTING FRICTION). MIX 25 GALS OF PIPE LUBE & 10 GALS OF FR BEADS W/ 40 BBLS OF WTR. PUMP PILL DOWN THE TBG.
10/29/2014 12:00	10/29/2014 13:00	1	POSTSTIM	NONOPS	PLANNE D	LUNCH BREAK.
10/29/2014 13:00	10/29/2014 18:00	5	POSTSTIM	WORKOVER	RIH	CONTINUE TO RIH W/ 43 JTS OF 2 7/8" WORKSTRING. A TOTAL OF 596 JTS IN THE HOLE @ 18,475.6'. FRACING DEPARTMENT ADVISED TO PUMP SWEEP & CIRCULATE BOTTOMS UP AT THIS DEPTH.
10/29/2014 18:00	10/29/2014 18:15	0.25	POSTSTIM	NONOPS	PLANNE D	SHIFT CHANGE TO NIGHT TIME OPERATIONS.
10/29/2014 18:15	10/29/2014 19:00	0.75	POSTSTIM	WORKOVER	CIRC	PUMP 30 BBLS SWEEP. CWC.
10/29/2014 19:00	10/29/2014 19:15	0.25	POSTSTIM	NONOPS	SAFETY	SAFETY MEETING.
10/29/2014 19:15	10/29/2014 21:45	2.5	POSTSTIM	WORKOVER	CIRC	FINISHED CWC. PUMPED A TOTAL OF 400 BBLS FRESH WATER BEHIND SWEEP. GOOD CLEAN RETURNS TO TANK AFTER 400 BBLS. SD PUMP. SWI.
10/29/2014 21:45	10/29/2014 22:00	0.25	POSTSTIM	WORKOVER	POOH	LD 2 JTS OF 2-7/8" TBG.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/29/2014 22:00	10/29/2014 22:30	0.5	POSTSTIM	WORKOVER	RD	RD PS.
10/29/2014 22:30	10/30/2014 02:00	3.5	POSTSTIM	WORKOVER	POOH	POOH & LD 2-7/8" TBG.
10/30/2014 02:00	10/30/2014 02:30	0.5	POSTSTIM	NONOPS	PLANNE D	LUNCH BREAK
10/30/2014 02:30	10/30/2014 05:30	3	POSTSTIM	WORKOVER	POOH	CONTINUE POOH & LD 2-7/8" WORKSTRING. TOTAL JOINTS LD = 299.
10/30/2014 05:30	10/30/2014 06:00	0.5	POSTSTIM	WORKOVER	POOH	TYING BACK TO 4 LINES AT REPORT TIME.

Report #: 26 Daily Operation: 10/30/2014 06:00 - 10/31/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
89	22	0.0			KEY ENERGY SERVICES, INC., <rigno>		

### Operations Summary

LD WORKSTRING.

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/30/2014 06:00	10/30/2014 07:00	1	POSTSTIM	WORKOVER	POOH	CONTINUE TO POOH LAYING DOWN 57 JTS OF WORKSTRING. A TOTAL OF 356 JTS ON THE PIPE RACKS.
10/30/2014 07:00	10/30/2014 07:15	0.25	POSTSTIM	NONOPS	PLANNE D	SAFETY MEETING.
10/30/2014 07:15	10/30/2014 11:45	4.5	POSTSTIM	WORKOVER	POOH	CONTINUE TO POOH LAYING DOWN WORKSTRING. LD 165 JTS. A TOTAL OF 521 JTS ON THE PIPE RACKS. RD STRIPPER HEAD. INSTALL TBG HANGER & LANDED ON TOP OF BOP.
10/30/2014 11:45	10/30/2014 12:45	1	POSTSTIM	NONOPS	PLANNE D	LUNCH BREAK
10/30/2014 12:45	10/30/2014 13:00	0.25	POSTSTIM	NONOPS	SAFETY	SAFETY MEETING.
10/30/2014 13:00	10/30/2014 15:00	2	POSTSTIM	WORKOVER	RU	RU SNUBBING UNIT.
10/30/2014 15:00	10/30/2014 18:00	3	POSTSTIM	WORKOVER	POOH	WH=650 PSI. POOH LAYING TBG DOWN ON PIPE RACKS. TOTAL JTS LAID DOWN = 595.
10/30/2014 18:00	10/30/2014 18:15	0.25	POSTSTIM	WORKOVER	RD	SHIFT CHANGE TO NIGHT TIME OPERATIONS.
10/30/2014 18:15	10/30/2014 19:00	0.75	POSTSTIM	WORKOVER	POOH	SNUB OUT A TOTAL OF 2 JTS. LD BHA.
10/30/2014 19:00	10/30/2014 19:15	0.25	POSTSTIM	NONOPS	SAFETY	SAFETY MEETING.
10/30/2014 19:15	10/30/2014 20:00	0.75	POSTSTIM	WORKOVER	RD	RD SNUBBING UNIT.
10/30/2014 20:00	10/30/2014 21:00	1	POSTSTIM	WORKOVER	RD	ND BOP'S. NU 7-1/16" 10K FRAC STACK.
10/30/2014 21:00	10/30/2014 23:30	2.5	POSTSTIM	WORKOVER	RU	MIRU API WIRELINE UNIT. NU 5" x 5-1/2" X-OVER & 10K LUBRICATOR W/ BOP'S. MIRU KEY PUMP TRUCKS & LAID PUMP DOWN LINES TO WELLHEAD.
10/30/2014 23:30	10/31/2014 00:30	1	POSTSTIM	WORKOVER	RU	FINISHED RU KEY ENERGY LINES TO WH.
10/31/2014 00:30	10/31/2014 01:00	0.5	POSTSTIM	WORKOVER	TEST	TEST KEY LINES TO 9500 PSI. GOOD TEST.
10/31/2014 01:00	10/31/2014 01:35	0.58 5	POSTSTIM	WORKOVER	TEST	TEST FRAC STACK TO 9500 PSI. GOOD TEST.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/31/2014 01:35	10/31/2014 03:35	2	POSTSTIM	WORKOVER	RIH	MU 4.344" JAYCAR MUSTANG SERIES BALL DROP COMPOSITE PLUG ON SETTING TOOL & (3) 3-3/8" X 2.0' CLUSTERS LOADED 5 SPF, 30 SHOTS TOTAL. RU LUBRICATOR TO WH. OPENED WELL & EQUALIZE LUBRICATOR W/ WELL. SICP - 800 PSI. RIH W/ BALL DROP COMPOSITE PLUG ON SETTING TOOL & GUNS. PUMPED DOWN, POSITIONED & SET COMPOSITE PLUG @ 18,430'. POSITION & SET GUNS TO PERFORATE @ 18,298 - 300', 18,238 - 240', & 18,178 - 180'.
10/31/2014 03:35	10/31/2014 04:35	1	POSTSTIM	WORKOVER	POOH	POOH W/ WIRELINE, GUNS, & SETTING TOOLS. LD GUNS & SETTING TOOL. CONFIRMED ALL GUNS FIRED. ALL GOOD. SWI.
10/31/2014 04:35	10/31/2014 05:15	0.667	POSTSTIM	WORKOVER	RD	LD LUBRICATOR W/ BOP. ND X-OVER. NU 10K CAP. RDMO API WIRELINE.
10/31/2014 05:15	10/31/2014 06:00	0.75	POSTSTIM	NONOPS	PLANNE D	WAITING ON DAYLIGHT TO RD KEY RIG.

Report #: 27 Daily Operation: 10/31/2014 06:00 - 11/1/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 90	Days on Location (days) 23	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., <rigno>	
Operations Summary RIG DOWN WORKOVER RIG.						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
10/31/2014 06:00	10/31/2014 07:30	1.5	POSTSTIM	NONOPS	PLANNE D	WAIT ON DAYLIGHT.
10/31/2014 07:30	10/31/2014 10:30	3	POSTSTIM	WORKOVER	RD	RDMO WORKOVER RIG. CLEANED LOCATION. RELEASE ALL RENTAL EQUIPMENT. TURN WELL OVER TO FRAC OPERATIONS.
10/31/2014 10:30	11/1/2014 06:00	19.5	STIM	NONOPS	PADWAI T	PPS and all other 3rd parties moving back on to location and rigging up

Report #: 28 Daily Operation: 11/1/2014 06:00 - 11/2/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 91	Days on Location (days) 24	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	
Operations Summary PPS rigging up/Stim Ops Day 9						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/1/2014 06:00	11/1/2014 23:52	17.867	STIM	NONOPS	PADWAI T	Waited for frac to finish rigging up.
11/1/2014 23:52	11/2/2014 05:30	5.633	STIM	FRAC	PRIME	
11/2/2014 05:30	11/2/2014 06:00	0.5	STIM	FRAC	TEST	

Report #: 29 Daily Operation: 11/2/2014 06:00 - 11/3/2014 05:30

Job Category			Primary Job Type			AFE Number
ORIG COMPLETION			OCM			032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
92	25	0.0			PUMPCO, <rigno>	
Operations Summary						
Frac Stage 8-9						
Remarks						

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/2/2014 06:00	11/2/2014 17:45	11.75	STIM	FRAC	STIM	Stage 8 Ernest Barrera
11/2/2014 17:45	11/2/2014 17:57	0.2	STIM	WIRELINE	RULUB	
11/2/2014 17:57	11/2/2014 19:24	1.45	STIM	WIRELINE	WLRUND N	
11/2/2014 19:24	11/2/2014 19:30	0.1	STIM	WIRELINE	PLUGPE RF	Plug set @ 18149
11/2/2014 19:30	11/2/2014 20:30	1	STIM	WIRELINE	WLRUNU P	Felix V.
11/2/2014 20:30	11/2/2014 20:39	0.15	STIM	WIRELINE	RDLUB	
11/2/2014 20:39	11/2/2014 21:05	0.434	STIM	FRAC	PRIME	
11/2/2014 21:05	11/2/2014 21:30	0.417	STIM	FRAC	TEST	Stime stage 9 Mike M.
11/2/2014 21:30	11/3/2014 00:13	2.717	STIM	FRAC	STIM	
11/3/2014 00:13	11/3/2014 00:38	0.417	STIM	WIRELINE	RULUB	
11/3/2014 00:38	11/3/2014 01:42	1.067	STIM	WIRELINE	WLRUND N	
11/3/2014 01:42	11/3/2014 01:47	0.083	STIM	WIRELINE	PLUGPE RF	Plug set @17844
11/3/2014 01:47	11/3/2014 02:37	0.833	STIM	WIRELINE	WLRUNU P	Felix V.
11/3/2014 02:37	11/3/2014 04:28	1.85	STIM	NONOPS	PADWAI T	
11/3/2014 04:28	11/3/2014 04:37	0.15	STIM	WIRELINE	RDLUB	
11/3/2014 04:37	11/3/2014 05:30	0.884	STIM	NONOPS	PADWAI T	

Report #: 30 Daily Operation: 11/3/2014 05:30 - 11/4/2014 05:08

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 032750
Days From Spud (days) 93	Days on Location (days) 26	End Depth (ftKB) 0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>

### Operations Summary

Frac Stage 10

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/3/2014 05:30	11/3/2014 07:43	2.233	STIM	FRAC	PRIME	
11/3/2014 07:43	11/3/2014 09:49	2.084	STIM	FRAC	STIM	Stage 10: Clint Sims
11/3/2014 09:49	11/3/2014 21:00	11.183	STIM	WIRELINE	RULUB	
11/3/2014 21:00	11/3/2014 22:22	1.383	STIM	WIRELINE	WLRUND N	
11/3/2014 22:22	11/3/2014 22:27	0.067	STIM	WIRELINE	PLUGPE RF	Plug set @ 17546
11/3/2014 22:27	11/3/2014 23:16	0.817	STIM	WIRELINE	WLRUNU P	
11/3/2014 23:16	11/3/2014 23:47	0.517	STIM	WIRELINE	RDLUB	
11/3/2014 23:47	11/4/2014 00:13	0.433	STIM	FRAC	PRIME	
11/4/2014 00:13	11/4/2014 00:25	0.2	STIM	FRAC	TEST	

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/4/2014 00:25	11/4/2014 03:25	3	STIM	FRAC	STIM	Stage 11: Mike Madrid
11/4/2014 03:25	11/4/2014 04:01	0.6	STIM	WIRELINE	RULUB	
11/4/2014 04:01	11/4/2014 05:01	1	STIM	WIRELINE	WLRUND N	
11/4/2014 05:01	11/4/2014 05:08	0.11 7	STIM	WIRELINE	PLUGPE RF	Plug set @ 17248

**Report #: 31 Daily Operation: 11/4/2014 05:08 - 11/5/2014 06:00**

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 94	Days on Location (days) 27	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>		
Operations Summary Frac Stage 11							
Remarks							

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/4/2014 05:08	11/4/2014 05:56	0.8	STIM	WIRELINE	WLRUNUP	
11/4/2014 05:56	11/4/2014 06:08	0.2	STIM	WIRELINE	RDLUB	
11/4/2014 06:08	11/5/2014 06:00	23.8 67	STIM	NONOPS	PADWAI T	No activity is made on this well. Tool is stuck on the 27H at the wellhead since this morning.

**Report #: 32 Daily Operation: 11/5/2014 06:00 - 11/6/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 95	Days on Location (days) 28	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	
Operations Summary Non Ops						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/5/2014 06:00	11/6/2014 06:00	24	STIM	NONOPS	PADWAI T	We are still currently down on the 27H having gun stuck in hole. At 17:10 Key was able to pump plug into well past wellhead. Waiting on coil unit now. At 0335 coil began to go down hole on the 27H, 28H is still currently down till coil operations are complete

**Report #: 33 Daily Operation: 11/6/2014 06:00 - 11/7/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 96	Days on Location (days) 29	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	
Operations Summary Non Ops						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/6/2014 06:00	11/7/2014 00:00	18	STIM	NONOPS	PADWAI T	No activity done today, still waiting for coil to finish coming out of hole. We will rig up wireline and P&P stage 3 on 27H.
11/7/2014 00:00	11/7/2014 00:45	0.75	STIM	FRAC	PRIME	
11/7/2014 00:45	11/7/2014 01:12	0.45	STIM	FRAC	TEST	
11/7/2014 01:12	11/7/2014 03:32	2.34	STIM	FRAC	STIM	Mark Abila- Stage12
11/7/2014 03:32	11/7/2014 06:00	2.46 7	STIM	NONOPS	PADWAI T	Waiting on other well (27H) to get done wireline so we can start wireline on this well

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 34 Daily Operation: 11/7/2014 06:00 - 11/8/2014 06:44

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	
97	30	0.0				

Operations Summary

Frac Stage 12

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/7/2014 06:00	11/7/2014 07:25	1.41 7	STIM	NONOPS	PADWAI T	
11/7/2014 07:25	11/7/2014 07:33	0.13 3	STIM	WIRELINE	RULUB	
11/7/2014 07:33	11/7/2014 08:40	1.11 7	STIM	WIRELINE	WLRUND N	
11/7/2014 08:40	11/7/2014 08:45	0.08 3	PRESTIM	WIRELINE	PLUGPE RF	Set Plug 16,946'
11/7/2014 08:45	11/7/2014 10:27	1.7	STIM	WIRELINE	WLRUNU P	
11/7/2014 10:27	11/7/2014 10:38	0.18 4	STIM	WIRELINE	RDLUB	
11/7/2014 10:38	11/8/2014 01:50	15.2	STIM	FRAC	PRIME	
11/8/2014 01:50	11/8/2014 02:35	0.75	STIM	FRAC	TEST	
11/8/2014 02:35	11/8/2014 04:32	1.95	STIM	FRAC	STIM	Mark Abila-Stage 13
11/8/2014 04:32	11/8/2014 05:14	0.7	STIM	WIRELINE	RULUB	
11/8/2014 05:14	11/8/2014 06:44	1.5	STIM	WIRELINE	WLRUND N	

Report #: 35 Daily Operation: 11/8/2014 06:44 - 11/9/2014 05:05

Job Category ORIG COMPLETION				Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 98	Days on Location (days) 31	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>		

Operations Summary

Frac Stage 13-15

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/8/2014 06:44	11/8/2014 06:54	0.16 7	STIM	WIRELINE	PLUGPE RF	Set Plug @ 16,644'
11/8/2014 06:54	11/8/2014 07:48	0.9	STIM	WIRELINE	WLRUNU P	Waiting for PPS 4 to finish fracing well on 27H.
11/8/2014 07:48	11/8/2014 07:53	0.08 3	STIM	WIRELINE	RDLUB	
11/8/2014 07:53	11/8/2014 08:48	0.93 3	STIM	FRAC	PRIME	
11/8/2014 08:48	11/8/2014 09:05	0.28 3	STIM	FRAC	TEST	
11/8/2014 09:05	11/8/2014 11:06	2.01 6	STIM	FRAC	STIM	Stage 14 Ernest Barrera
11/8/2014 11:06	11/8/2014 11:35	0.48 3	STIM	WIRELINE	RULUB	
11/8/2014 11:35	11/8/2014 12:30	0.91 7	STIM	WIRELINE	WLRUND N	
11/8/2014 12:30	11/8/2014 12:35	0.06 8	STIM	WIRELINE	PLUGPE RF	Set Plug @ 16,342'
11/8/2014 12:35	11/8/2014 13:20	0.75	STIM	WIRELINE	WLRUNU P	Waiting for PPS 4 to finish fracing well on 27H.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/8/2014 13:20	11/8/2014 13:29	0.15	STIM	WIRELINE	RDLUB	
11/8/2014 13:29	11/8/2014 15:31	2.03 4	STIM	NONOPS	PADWAI T	Waited for PPS4 to finish frac on the 27H.
11/8/2014 15:31	11/8/2014 16:42	1.18 3	STIM	FRAC	PRIME	
11/8/2014 16:42	11/8/2014 17:09	0.45	STIM	FRAC	TEST	
11/8/2014 17:09	11/8/2014 18:55	1.76 7	STIM	FRAC	STIM	Stage 15 Ernest Barrera/Mark Abila
11/8/2014 18:55	11/8/2014 20:00	1.08 3	STIM	WIRELINE	RULUB	
11/8/2014 20:00	11/8/2014 21:01	1.01 7	STIM	WIRELINE	WLRUND N	
11/8/2014 21:01	11/8/2014 21:09	0.13 3	STIM	WIRELINE	PLUGPE RF	Set Plut @ 16,060
11/8/2014 21:09	11/8/2014 23:21	2.2	STIM	WIRELINE	WLRUNU P	
11/8/2014 23:21	11/8/2014 23:35	0.23 3	STIM	WIRELINE	RDLUB	
11/8/2014 23:35	11/9/2014 01:15	1.66 7	STIM	FRAC	PRIME	
11/9/2014 01:15	11/9/2014 03:10	1.91 7	STIM	FRAC	TEST	We stopped PPS while they were testing so that JW could work on 27H
11/9/2014 03:10	11/9/2014 05:05	1.91 7	STIM	FRAC	STIM	Mark Abila- Stage 16

Report #: 36 Daily Operation: 11/9/2014 05:05 - 11/10/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 99	Days on Location (days) 32	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

### Operations Summary

Frac Stage 17-18

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/9/2014 05:05	11/9/2014 05:39	0.58 3	STIM	WIRELINE	RULUB	
11/9/2014 05:39	11/9/2014 06:41	1.01 7	STIM	WIRELINE	WLRUND N	
11/9/2014 06:41	11/9/2014 06:51	0.16 7	STIM	WIRELINE	PLUGPE RF	Set Plug @ 15,758'
11/9/2014 06:51	11/9/2014 07:35	0.73 3	STIM	WIRELINE	WLRUNU P	
11/9/2014 07:35	11/9/2014 07:41	0.1	STIM	WIRELINE	RDLUB	
11/9/2014 07:41	11/9/2014 09:20	1.65	STIM	NONOPS	PADWAI T	Waited on PPS4 to frac 27H well.
11/9/2014 09:20	11/9/2014 12:45	3.41 7	STIM	FRAC	PRIME	
11/9/2014 12:45	11/9/2014 12:55	0.16 7	STIM	FRAC	TEST	
11/9/2014 12:55	11/9/2014 14:43	1.8	STIM	FRAC	STIM	Stage 17 Ernest Barrera
11/9/2014 14:43	11/9/2014 15:01	0.3	STIM	WIRELINE	RULUB	
11/9/2014 15:01	11/9/2014 15:57	0.93 3	STIM	WIRELINE	WLRUND N	
11/9/2014 15:57	11/9/2014 16:01	0.06 7	STIM	WIRELINE	PLUGPE RF	Set Plug @ 15,456'

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/9/2014 16:01	11/9/2014 18:25	2.4	STIM	WIRELINE	WLRUNUP	Waited on frac to finish fracing well on the 27H.
11/9/2014 18:25	11/9/2014 18:45	0.33 3	STIM	WIRELINE	RDLUB	
11/9/2014 18:45	11/9/2014 23:10	4.41 7	STIM	FRAC	PRIME	Sand was getting off loaded before we could prime or test reason for extra time on this prime session
11/9/2014 23:10	11/9/2014 23:35	0.41 7	STIM	FRAC	TEST	
11/9/2014 23:35	11/10/2014 01:34	1.98 3	STIM	FRAC	STIM	Mark Abila Stage 18
11/10/2014 01:34	11/10/2014 02:00	0.43 3	STIM	WIRELINE	RULUB	
11/10/2014 02:00	11/10/2014 03:07	1.11 7	STIM	WIRELINE	WLRUNDN	
11/10/2014 03:07	11/10/2014 03:11	0.06 7	STIM	WIRELINE	PLUGPERF	Set Plug@ 15,154 Mark Abila
11/10/2014 03:11	11/10/2014 03:50	0.65	STIM	WIRELINE	WLRUNUP	
11/10/2014 03:50	11/10/2014 04:00	0.16 7	STIM	WIRELINE	RDLUB	
11/10/2014 04:00	11/10/2014 06:00	2	STIM	NONOPS	PADWAIT	Waiting on 27H to start stage#9

Report #: 37 Daily Operation: 11/10/2014 06:00 - 11/11/2014 05:37

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 100	Days on Location (days) 33	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

Operations Summary  
Frac Stage 19-20

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/10/2014 06:00	11/10/2014 08:03	2.05	STIM	FRAC	PRIME	
11/10/2014 08:03	11/10/2014 08:13	0.18 3	STIM	FRAC	TEST	
11/10/2014 08:13	11/10/2014 10:03	1.83 3	STIM	FRAC	STIM	Stage 19 Ernest Barrera
11/10/2014 10:03	11/10/2014 10:40	0.61	STIM	WIRELINE	RULUB	
11/10/2014 10:40	11/10/2014 11:29	0.81 7	STIM	WIRELINE	WLRUNDN	
11/10/2014 11:29	11/10/2014 11:33	0.06 7	STIM	WIRELINE	PLUGPERF	
11/10/2014 11:33	11/10/2014 12:07	0.56 7	STIM	WIRELINE	WLRUNUP	
11/10/2014 12:07	11/10/2014 12:15	0.13 3	STIM	WIRELINE	RDLUB	
11/10/2014 12:15	11/10/2014 16:09	3.9	STIM	NONOPS	PADWAIT	
11/10/2014 16:09	11/10/2014 17:21	1.2	STIM	FRAC	PRIME	
11/10/2014 17:21	11/10/2014 17:37	0.26 7	STIM	FRAC	TEST	



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/10/2014 17:37	11/10/2014 20:21	2.73 3	STIM	FRAC	STIM	Mark Abila -Stage 20 On this stage we pumped some brown the sand box belt went down and they had no other box to go to other than brown i called engineer and he said it was fine so we pumped brown sand but PPS couldnt get prop back up to 3.5# so we cut sand and flushed we pumped 80% of the sand called for on that stage called engineer and he said that would work
11/10/2014 20:21	11/10/2014 20:45	0.4	STIM	WIRELINE	RULUB	
11/10/2014 20:45	11/10/2014 21:41	0.93 3	STIM	WIRELINE	WLRUND N	
11/10/2014 21:41	11/10/2014 21:45	0.06 7	STIM	WIRELINE	PLUGPE RF	Set@14,555
11/10/2014 21:45	11/10/2014 23:45	2	STIM	WIRELINE	WLRUNU P	
11/10/2014 23:45	11/11/2014 00:00	0.25	STIM	WIRELINE	RDLUB	
11/11/2014 00:00	11/11/2014 02:15	2.25	STIM	FRAC	PRIME	
11/11/2014 02:15	11/11/2014 02:25	0.16 7	STIM	FRAC	TEST	
11/11/2014 02:25	11/11/2014 04:18	1.88 3	STIM	FRAC	STIM	Mark Abila -Stage 21
11/11/2014 04:18	11/11/2014 04:40	0.36 7	STIM	WIRELINE	RULUB	
11/11/2014 04:40	11/11/2014 05:34	0.9	STIM	WIRELINE	WLRUND N	
11/11/2014 05:34	11/11/2014 05:37	0.05	STIM	WIRELINE	PLUGPE RF	

Report #: 38 Daily Operation: 11/11/2014 05:37 - 11/12/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 101	Days on Location (days) 34	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

Operations Summary

Frac Stage 22-23

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/11/2014 05:37	11/11/2014 06:20	0.71 7	STIM	WIRELINE	WLRUNU P	
11/11/2014 06:20	11/11/2014 06:30	0.16 7	STIM	WIRELINE	RDLUB	
11/11/2014 06:30	11/11/2014 14:54	8.4	STIM	NONOPS	PADWAI T	
11/11/2014 14:54	11/11/2014 19:26	4.53 3	STIM	FRAC	PRIME	
11/11/2014 19:26	11/11/2014 21:21	1.91 7	STIM	FRAC	STIM	Stage 22: Clint Sims
11/11/2014 21:21	11/11/2014 21:48	0.45	STIM	WIRELINE	RULUB	
11/11/2014 21:48	11/11/2014 22:37	0.81 7	STIM	WIRELINE	WLRUND N	
11/11/2014 22:37	11/11/2014 22:42	0.08 3	STIM	WIRELINE	PLUGPE RF	Set Plug @ 13956
11/11/2014 22:42	11/11/2014 23:37	0.91 7	STIM	WIRELINE	WLRUNU P	
11/11/2014 23:37	11/11/2014 23:46	0.15	STIM	WIRELINE	RDLUB	

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/11/2014 23:46	11/12/2014 06:00	6.23 3	STIM	NONOPS	PADWAI T	

Report #: 39 Daily Operation: 11/12/2014 06:00 - 11/13/2014 03:51

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 102	Days on Location (days) 35	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

Operations Summary  
Frac Stage 23-24

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/12/2014 06:00	11/12/2014 06:30	0.5	STIM	NONOPS	PADWAI T	Stage 23: Waiting on stage 13 on the 27H to finish.
11/12/2014 06:30	11/12/2014 10:00	3.5	STIM	FRAC	PRIME	
11/12/2014 10:00	11/12/2014 10:29	0.48 4	STIM	FRAC	TEST	
11/12/2014 10:29	11/12/2014 13:53	3.4	STIM	FRAC	STIM	Stage 23 Mike Madrid
11/12/2014 13:53	11/12/2014 14:13	0.33 3	STIM	WIRELINE	RULUB	
11/12/2014 14:13	11/12/2014 15:28	1.25	STIM	WIRELINE	WLRUND N	
11/12/2014 15:28	11/12/2014 15:34	0.1	STIM	WIRELINE	PLUGPE RF	Set @ 13656
11/12/2014 15:34	11/12/2014 16:03	0.48 3	STIM	WIRELINE	WLRUNU P	
11/12/2014 16:03	11/12/2014 16:09	0.11	STIM	WIRELINE	RDLUB	
11/12/2014 16:09	11/12/2014 17:55	1.76 8	STIM	NONOPS	PADWAI T	
11/12/2014 17:55	11/12/2014 20:31	2.6	STIM	FRAC	PRIME	
11/12/2014 20:31	11/12/2014 22:20	1.81 7	STIM	FRAC	STIM	Stage 24: Clint Sims
11/12/2014 22:20	11/12/2014 22:37	0.28 3	STIM	WIRELINE	RULUB	
11/12/2014 22:37	11/12/2014 23:26	0.81 7	STIM	WIRELINE	WLRUND N	
11/12/2014 23:26	11/12/2014 23:34	0.13 3	STIM	WIRELINE	PLUGPE RF	Set Plug @ 13357
11/12/2014 23:34	11/13/2014 00:04	0.5	STIM	WIRELINE	WLRUNU P	
11/13/2014 00:04	11/13/2014 00:17	0.21 7	STIM	WIRELINE	RDLUB	
11/13/2014 00:17	11/13/2014 03:51	3.56 7	STIM	NONOPS	PADWAI T	

Report #: 40 Daily Operation: 11/13/2014 03:51 - 11/14/2014 04:57

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 103	Days on Location (days) 36	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

Operations Summary  
Frac Stage 25

Remarks

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/13/2014 03:51	11/13/2014 08:32	4.68 4	STIM	FRAC	PRIME	
11/13/2014 08:32	11/13/2014 08:40	0.13 3	STIM	FRAC	TEST	
11/13/2014 08:40	11/13/2014 10:35	1.91 7	STIM	FRAC	STIM	Stage 25: Mike Madrid
11/13/2014 10:35	11/14/2014 02:56	16.3 5	STIM	NONOPS	PADWAI T	
11/14/2014 02:56	11/14/2014 03:03	0.11 7	STIM	WIRELINE	RULUB	
11/14/2014 03:03	11/14/2014 03:53	0.83 3	STIM	WIRELINE	WLRUND N	
11/14/2014 03:53	11/14/2014 03:59	0.1	STIM	WIRELINE	PLUGPE RF	Set Plug @ 13057
11/14/2014 03:59	11/14/2014 04:43	0.73 3	STIM	WIRELINE	WLRUNU P	
11/14/2014 04:43	11/14/2014 04:57	0.23 3	STIM	WIRELINE	RDLUB	

### Report #: 41 Daily Operation: 11/14/2014 04:57 - 11/15/2014 03:53

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 104	Days on Location (days) 37	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

### Operations Summary

Frac Stage 26 27

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/14/2014 04:57	11/14/2014 11:19	6.38 3	STIM	NONOPS	PADWAI T	
11/14/2014 11:19	11/14/2014 13:00	1.66 7	STIM	FRAC	PRIME	
11/14/2014 13:00	11/14/2014 13:22	0.38 3	STIM	FRAC	TEST	
11/14/2014 13:22	11/14/2014 16:15	2.88 3	STIM	FRAC	STIM	Stage 26: Mike Madrid
11/14/2014 16:15	11/14/2014 16:40	0.41	STIM	WIRELINE	RULUB	
11/14/2014 16:40	11/14/2014 17:30	0.83 3	STIM	WIRELINE	WLRUND N	
11/14/2014 17:30	11/14/2014 17:38	0.13 3	STIM	WIRELINE	PLUGPE RF	Set Plug @ 12758
11/14/2014 17:38	11/14/2014 18:18	0.66 7	STIM	WIRELINE	WLRUNU P	
11/14/2014 18:18	11/14/2014 19:22	1.06 7	STIM	WIRELINE	RDLUB	
11/14/2014 19:22	11/14/2014 20:20	0.96 7	STIM	NONOPS	PADWAI T	
11/14/2014 20:20	11/14/2014 20:41	0.35	STIM	FRAC	PRIME	
11/14/2014 20:41	11/14/2014 22:33	1.86 7	STIM	FRAC	STIM	Stage 27: Clint Sims
11/14/2014 22:33	11/14/2014 22:54	0.35	STIM	WIRELINE	RULUB	
11/14/2014 22:54	11/14/2014 23:59	1.08 3	STIM	WIRELINE	WLRUND N	
11/14/2014 23:59	11/15/2014 00:04	0.08 3	STIM	WIRELINE	PLUGPE RF	Set Plug @ 12458
11/15/2014 00:04	11/15/2014 00:48	0.73 3	STIM	WIRELINE	WLRUNU P	

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/15/2014 00:48	11/15/2014 00:59	0.18 3	STIM	WIRELINE	RDLUB	
11/15/2014 00:59	11/15/2014 02:23	1.4	STIM	NONOPS	PADWAI T	
11/15/2014 02:23	11/15/2014 03:53	1.5	STIM	FRAC	PRIME	

Report #: 42 Daily Operation: 11/15/2014 03:53 - 11/16/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 105	Days on Location (days) 38	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

Operations Summary

Frac stage 28

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/15/2014 03:53	11/15/2014 11:58	8.08 4	STIM	FRAC	STIM	Screened out 27000 lbs into 4# sand got a 100 bbls flushed before being forced to shutdown. flowed back about 350 bbls of sand and gel once the flow back tank was full we had to shut down. Once we shut down we attempted to again flush the well, we were able to get up to 15 bbls/min for a brief bit but had to back it back down to 3. We pumped 200 bbls.  We then attempted to flow back again this time we got no sand back we attempted to pump on it once more but were unable to get any kind of rate other than the 3 bbls/min.
11/15/2014 11:58	11/16/2014 06:00	18.0 33	STIM	NONOPS	REMEDI ATE	Coil unit was called to come out to location and arrived at 1245 and began spotting and rigging up equipment at 1335 once 3rd parties moved all the equipment that coil needed moved out of the way moved.

Report #: 43 Daily Operation: 11/16/2014 06:00 - 11/17/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 106	Days on Location (days) 39	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

Operations Summary

Non Ops-Coil in Well

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/16/2014 06:00	11/17/2014 06:00	24	STIM	NONOPS	REMEDI ATE	

Report #: 44 Daily Operation: 11/17/2014 06:00 - 11/18/2014 06:00

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 107	Days on Location (days) 40	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <rigno>	

Operations Summary

Non Ops

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/17/2014 06:00	11/18/2014 06:00	24	STIM	NONOPS	PADWAI T	

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Report #: 45 Daily Operation: 11/18/2014 06:00 - 11/19/2014 05:44

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 108	Days on Location (days) 41	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <igno>	

Operations Summary

STAGE #31

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/18/2014 06:00	11/18/2014 09:10	3.16 7	STIM	NONOPS	PADWAI T	Stage 29: Waiting on the 27H to finish stage 19.
11/18/2014 09:10	11/18/2014 09:30	0.33 3	STIM	FRAC	PRIME	
11/18/2014 09:30	11/18/2014 13:24	3.9	STIM	FRAC	TEST	
11/18/2014 13:24	11/18/2014 15:13	1.81 7	STIM	FRAC	STIM	
11/18/2014 15:13	11/18/2014 16:07	0.9	STIM	WIRELINE	RULUB	
11/18/2014 16:07	11/18/2014 16:57	0.83 3	STIM	WIRELINE	WLRUND N	
11/18/2014 16:57	11/18/2014 17:07	0.16 7	STIM	WIRELINE	PLUGPE RF	Set Plug @ 11864 / Miguel Martnez
11/18/2014 17:07	11/18/2014 18:38	1.51 7	STIM	WIRELINE	WLRUNU P	
11/18/2014 18:38	11/18/2014 18:52	0.23 3	STIM	WIRELINE	RDLUB	
11/18/2014 18:52	11/18/2014 19:17	0.41 7	STIM	NONOPS	SAFETY	
11/18/2014 19:17	11/18/2014 20:43	1.43 3	STIM	FRAC	PRIME	
11/18/2014 20:43	11/18/2014 20:55	0.2	STIM	FRAC	TEST	
11/18/2014 20:55	11/18/2014 22:46	1.85	STIM	FRAC	STIM	STAGE 30 / MIGUEL MARTINEZ
11/18/2014 22:46	11/18/2014 23:20	0.56 7	STIM	WIRELINE	RULUB	
11/18/2014 23:20	11/19/2014 00:17	0.95	STIM	WIRELINE	WLRUND N	
11/19/2014 00:17	11/19/2014 00:20	0.05	STIM	WIRELINE	PLUGPE RF	SET PLUG @ 11,564 / MIGUEL MARTINEZ
11/19/2014 00:20	11/19/2014 00:45	0.41 7	STIM	WIRELINE	WLRUNU P	
11/19/2014 00:45	11/19/2014 01:00	0.25	STIM	WIRELINE	RDLUB	
11/19/2014 01:00	11/19/2014 02:40	1.66 7	STIM	NONOPS	PADWAI T	
11/19/2014 02:40	11/19/2014 03:45	1.08 3	STIM	FRAC	PRIME	
11/19/2014 03:45	11/19/2014 03:49	0.06 7	STIM	FRAC	TEST	
11/19/2014 03:49	11/19/2014 05:44	1.91 7	STIM	FRAC	STIM	STAGE 31 / MIGUEL MARTINEZ

Report #: 46 Daily Operation: 11/19/2014 05:44 - 11/19/2014 08:53

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 108	Days on Location (days) 41	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PUMPCO, <igno>	

Operations Summary

Job is complete at 8:53 am

Remarks

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/19/2014 05:44	11/19/2014 06:22	0.64 4	STIM	WIRELINE	RULUB	
11/19/2014 06:22	11/19/2014 07:01	0.65	STIM	WIRELINE	WLRUND N	
11/19/2014 07:01	11/19/2014 07:05	0.06 7	STIM	WIRELINE	PLUGPE RF	First Cap Plug @ 9090 / Rudy Avila
11/19/2014 07:05	11/19/2014 07:27	0.36 7	STIM	WIRELINE	WLRUNU P	
11/19/2014 07:27	11/19/2014 07:35	0.13 3	STIM	WIRELINE	RDLUB	
11/19/2014 07:35	11/19/2014 07:50	0.25	STIM	WIRELINE	RULUB	
11/19/2014 07:50	11/19/2014 08:25	0.58 3	STIM	WIRELINE	WLRUND N	
11/19/2014 08:25	11/19/2014 08:30	0.08 3	STIM	WIRELINE	PLUGPE RF	2 cap plug set @ 9000 / Rudy Avila
11/19/2014 08:30	11/19/2014 08:45	0.25	STIM	WIRELINE	WLRUNU P	
11/19/2014 08:45	11/19/2014 08:53	0.13 3	STIM	WIRELINE	RDLUB	

**Report #: 47 Daily Operation: 11/24/2014 06:00 - 11/24/2014 08:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 113	Days on Location (days) 41	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	

Operations Summary  
M/I BUILD RAMP

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/24/2014 06:00	11/24/2014 20:00	14	POSTSTIM	NONOPS	PLANNE D	M/I BUILD RAMP, OFFLOAD TUBING, S/D/F/N.

**Report #: 48 Daily Operation: 11/24/2014 08:00 - 11/25/2014 08:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 114	Days on Location (days) 41	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	

Operations Summary

Remarks

### Time Log Summary

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

**Report #: 49 Daily Operation: 11/25/2014 06:00 - 11/26/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 115	Days on Location (days) 42	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	

Operations Summary

miru pnr 22

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/25/2014 06:00	11/25/2014 09:00	3	POSTSTIM	WORKOVER	RU	wait on plastic to be installed on ramp, miru pnr 22
11/25/2014 09:00	11/25/2014 11:00	2	POSTSTIM	WORKOVER	RU	nipple up bop's
11/25/2014 11:00	11/25/2014 12:00	1	POSTSTIM	NONOPS	PLANNE D	lunch break

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/25/2014 12:00	11/25/2014 18:00	6	POSTSTIM	WORKOVER	RU	pipe to wellhead, unload and rack
11/25/2014 18:00	11/25/2014 19:00	1	POSTSTIM	WORKOVER	RU	Finish loading tubing on rack. Shift change.
11/25/2014 19:00	11/25/2014 19:15	0.25	POSTSTIM	NONOPS	SAFETY	Safety meeting with night crew.
11/25/2014 19:15	11/25/2014 20:00	0.75	POSTSTIM	WORKOVER	RIH	Tally tubing.
11/25/2014 20:00	11/25/2014 20:30	0.5	POSTSTIM	WORKOVER	RIH	Make up BHA. 4-5/8" JZ Bit, 2-7/8" motor, 2-7/8" agitator, and back pressure valve.
11/25/2014 20:30	11/26/2014 06:00	9.5	POSTSTIM	WORKOVER	RIH	TIH with tubing. Stop every 50 jnts and pump thur motor. Stop at 8478' on jnt 274. Shut well in. Shift change

**Report #: 50 Daily Operation: 11/26/2014 06:00 - 11/26/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 115	Days on Location (days) 43	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	

Operations Summary  
rig up flowbackcrew

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/26/2014 06:00	11/26/2014 06:30	0.5	POSTSTIM	NONOPS	PLANNE D	saftey meeting.
11/26/2014 06:30	11/26/2014 08:30	2	POSTSTIM	WORKOVER	RU	nipple up stripperhead
11/26/2014 08:30	11/26/2014 11:30	3	POSTSTIM	WORKOVER	RU	empty frac dept earth pit, to rig up flowback equipment
11/26/2014 11:30	11/26/2014 12:00	0.5	POSTSTIM	NONOPS	PLANNE D	lunch
11/26/2014 12:00	11/26/2014 18:00	6	POSTSTIM	WORKOVER	RU	continue rigging up flowback, and frac tanks

**Report #: 51 Daily Operation: 11/27/2014 06:00 - 11/27/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 116	Days on Location (days) 43	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	

Operations Summary  
holiday no activity

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/27/2014 06:00	11/27/2014 06:00	0				no activity

**Report #: 52 Daily Operation: 11/28/2014 06:00 - 11/28/2014 06:00**

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 117	Days on Location (days) 43	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	

Operations Summary  
holiday no activity

Remarks

### Time Log Summary

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



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

<b>Report #: 53 Daily Operation: 11/29/2014 06:00 - 11/30/2014 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 119	Days on Location (days) 44	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	
Operations Summary drilling plugs						
Remarks						
<b>Time Log Summary</b>						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/29/2014 06:00	11/29/2014 09:00	3	POSTSTIM	WORKOVER	RIH	crew to location, pump 5 bbls thru motor. rih/w 12 jts tubing, rig up swivel. pick up 3 jts tag # 1 plug @ 9,000'. drill out 15 min
11/29/2014 09:00	11/29/2014 11:00	2	POSTSTIM	WORKOVER	DOPLUG	pick up 3 jts, tag # 2 plug @ 9,990'. drill out in 30 min. psi increased to 1400# choke on 34/64. let well blow for 30 min pumping 2.6 bpm returns 6.7 bpm. pump 5 bbl sweep.
11/29/2014 11:00	11/29/2014 13:30	2.5	POSTSTIM	WORKOVER	DOPLUG	pick up 43 jts, eat lunch
11/29/2014 13:30	11/29/2014 15:00	1.5	POSTSTIM	WORKOVER	DOPLUG	continue pick up tbgs, 27 jts tag # 3 plug 11,264'. drill plug in 10 min. pump 5 bbl sweep.
11/29/2014 15:00	11/29/2014 16:00	1	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts tag # 4 plug @ 11,564'. pump drill out in 15 min, pump 5 bbl sweep. psi increase to 1500#.
11/29/2014 16:00	11/29/2014 17:00	1	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts tag # 5 plug @ 11,864'. drill out in 15 min, pump 5 bbl sweep.
11/29/2014 17:00	11/29/2014 18:00	1	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts, didnt find 6 plug, going down to #7 at shift change
11/29/2014 18:00	11/29/2014 19:00	1	POSTSTIM	WORKOVER	DOPLUG	Wash down to 12458' on jnt 404. Circulate 10bbl sweep to surface. Crew change.
11/29/2014 19:00	11/29/2014 19:15	0.25	POSTSTIM	NONOPS	SAFETY	Safety meeting with night crew.
11/29/2014 19:15	11/29/2014 20:30	1.25	POSTSTIM	WORKOVER	DOPLUG	Tag plug #7 on jnt 404 at 12457'. Drilled in 10 mins. Pumped 5 bbl sweep.
11/29/2014 20:30	11/29/2014 21:00	0.5	POSTSTIM	WORKOVER	DOPLUG	Tag plug #8 on jnt 413 at 12755'. Drilled in 12 mins. Pump 5bbl sweep.
11/29/2014 21:00	11/29/2014 21:30	0.5	POSTSTIM	WORKOVER	DOPLUG	Tag plug # 9 on jnt 423 at 13053'. Drilled in 8 mins. Pump 5 bbl sweep.
11/29/2014 21:30	11/29/2014 23:00	1.5	POSTSTIM	WORKOVER	DOPLUG	Tag plug #10 on jnt 433 at 13351'. Drilled in 15 mins. Pump 5 bbl sweep and circulate while strapping tubing.
11/29/2014 23:00	11/29/2014 23:45	0.75	POSTSTIM	WORKOVER	DOPLUG	Tag plug #11 on jnt 442 at 13639'. Drilled in 13 mins. Pump 5 bbl sweep.
11/29/2014 23:45	11/30/2014 01:00	1.25	POSTSTIM	WORKOVER	DOPLUG	Tag plug #12 on jnt 452 at 13949'. Drilled in 15 mins. Pump 5 bbl sweep.
11/30/2014 01:00	11/30/2014 02:00	1	POSTSTIM	WORKOVER	CIRC	Wash down to 14242 on jnt 461. Circulate 10 bbl sweep to surface.
11/30/2014 02:00	11/30/2014 03:00	1	POSTSTIM	WORKOVER	DOPLUG	Tag plug #13 on jnt 462 at 14247'. Drilled in 12 mins. Pump 5 bbl sweep.
11/30/2014 03:00	11/30/2014 04:00	1	POSTSTIM	WORKOVER	DOPLUG	Tag plug 14 at 14546 on jnt 471. Drilled in 18 mins. Pumped 5 bbl sweep. Plug # 15 wasnt there.
11/30/2014 04:00	11/30/2014 05:00	1	POSTSTIM	WORKOVER	DOPLUG	Tag plug #16 at 15149 on jnt 491. Drilled in 14 mins. Pump 5 bbl sweep.
11/30/2014 05:00	11/30/2014 06:00	1	POSTSTIM	WORKOVER	DOPLUG	Tag plug #17 at 14449 on jnt 501. Drilled in 13 mins. Pump 5 bbl sweep. Shift change.
<b>Report #: 54 Daily Operation: 11/30/2014 06:00 - 12/1/2014 06:00</b>						
Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days) 120	Days on Location (days) 45	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	
Operations Summary drilling plugs						
Remarks						

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
11/30/2014 06:00	11/30/2014 07:00	1	POSTSTIM	WORKOVER	DOPLUG	at shift change cir # 17 plug, change out stripper rubber
11/30/2014 07:00	11/30/2014 09:00	2	POSTSTIM	WORKOVER	DOPLUG	drill out # 18 plug, drill out in 5 min. pump 10 bbl sweep, 20 bbl water spacer 10 bbl sweep, cir bottoms up. returns show slip parts coming back
11/30/2014 09:00	11/30/2014 09:30	0.5	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts, tag # 19 plug @ 15,758'. drill out in 10 min, pump 5 bbl sweep.
11/30/2014 09:30	11/30/2014 10:30	1	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts, tag # 20 plug @ 16,060'. drill out in 11 min. pump 5 bbl sweep
11/30/2014 10:30	11/30/2014 11:30	1	POSTSTIM	WORKOVER	DOPLUG	pick up 9 jts, tag # 21 plug @ 16,342'. drill out in 10 min. pump 5 bbl sweep
11/30/2014 11:30	11/30/2014 12:00	0.5	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts, tag # 22 plug @ 16,644'. drill out in 10 min. pump 10 bbl sweep, 20 bbl water spacer, 10 bbl sweep cir bottoms up while eating lunch
11/30/2014 12:00	11/30/2014 13:30	1.5	POSTSTIM	WORKOVER	CIRC	bottoms up returns show slip parts
11/30/2014 13:30	11/30/2014 14:00	0.5	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts, tag # 23 plug @ 16,946'. drill out plug in 15 min. pump 5 bbl sweep
11/30/2014 14:00	11/30/2014 15:00	1	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts, tag # 24 plug @ 17,248'. drill out in 15 min. pump 5 bbl sweep
11/30/2014 15:00	11/30/2014 16:00	1	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts tag # 25 plug @ 17,546'. drill out in 10 min. pump 5 bbl sweep
11/30/2014 16:00	11/30/2014 17:00	1	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts. tag # 26 plug @ 17,844'. drill out in 17 min. pump 5 bbl sweep
11/30/2014 17:00	11/30/2014 18:00	1	POSTSTIM	WORKOVER	DOPLUG	pick up 10 jts, tag # 27 @ 18,149'. drill out plug in 15 min, pump 5 bbl sweep. change out stripper ruber at shift change.
11/30/2014 18:00	11/30/2014 19:00	1	POSTSTIM	WORKOVER	CIRC	Circulate hole clean. Crew Change.
11/30/2014 19:00	11/30/2014 19:15	0.25	POSTSTIM	NONOPS	SAFETY	Safety meeting with night crew.
11/30/2014 19:15	11/30/2014 22:15	3	POSTSTIM	WORKOVER	DOPLUG	Wash down with swivel to plug #30. Plugs #28 & 29 were not there. Tag plug #30 on jnt 626 at 19321. Drilled in 9 mins. Pump 20 bbl sweep.
11/30/2014 22:15	11/30/2014 23:30	1.25	POSTSTIM	WORKOVER	DOPLUG	Tag plug #31 on jnt 636 at 19624. Drilled in 13 mins. Pumped 20 bbl sweep.
11/30/2014 23:30	12/1/2014 01:15	1.75	POSTSTIM	WORKOVER	DOPLUG	Tag plug #32 on jnt 645 at 19916. Drilled in 14 mins. Pumped 20 bbl sweep.
12/1/2014 01:15	12/1/2014 03:00	1.75	POSTSTIM	WORKOVER	DOPLUG	Tag plug #33 on jnt 655 at 20231. Drilled in 5 mins. Pumped 20 bbl sweep. Continue in hole and tag PBDT at 20591 on jnt 667.
12/1/2014 03:00	12/1/2014 06:00	3	POSTSTIM	WORKOVER	CIRC	Circulate six 25 bbl sweeps with 30 bbl spacer inbetween each sweep back to surface. Shift change.

Report #: 55 Daily Operation: 12/1/2014 06:00 - 12/2/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 121	Days on Location (days) 46	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	
Operations Summary cir btms up						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/1/2014 06:00	12/1/2014 07:00	1	POSTSTIM	WORKOVER	CIRC	at shift change, waiting on bottoms up. returns show slip parts.
12/1/2014 07:00	12/1/2014 08:00	1	POSTSTIM	SQUEEZE	RD	rig down swivel
12/1/2014 08:00	12/1/2014 12:00	4	POSTSTIM	WORKOVER	POOH	pooh/w workstring laying down. eat lunch
12/1/2014 12:00	12/1/2014 18:00	6	POSTSTIM	WORKOVER	POOH	continue pooh/w workstring laying down at shift change

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/1/2014 18:00	12/1/2014 18:30	0.5	POSTSTIM	NONOPS	SAFETY	AOL, HOLD SAFETY MEETING
12/1/2014 18:30	12/2/2014 02:00	7.5	POSTSTIM	WORKOVER	POOH	POOH, LEAVING 130JTS IN HOLE, WBP 1300PSI, M/U X/O RUN 1JT 2.375 8RD M/U LANDING SUB & TIW HANG TUBING OFF ON UPPER PIPE RAM.
12/2/2014 02:00	12/2/2014 06:00	4	POSTSTIM	NONOPS	PLANNE D	R/D STRIPPING HEAD, LAYDOWN MACHINE, GET LOCATION READY TO RIG UP SNUBBING EQUIPMENT AT DAYLIGHT, SHIFT CHANGE TURN OVER TO DAY CREW

Report #: 56 Daily Operation: 12/2/2014 06:00 - 12/3/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 122	Days on Location (days) 47	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	

#### Operations Summary

Continue L/D work string & set packer

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/2/2014 06:00	12/2/2014 08:00	2	POSTSTIM	NONOPS	PLANNE D	ARRIVED ON LOCATION, & HELD PRE JOB SAFETY MEETING WITH ALL PERSONNEL ON LOCATION. WAIT ON SPOOL TO ARRIVE
12/2/2014 08:00	12/2/2014 10:30	2.5	POSTSTIM	WORKOVER	RU	RIG UP CUDD SNUBBING UNIT
12/2/2014 10:30	12/2/2014 12:45	2.25	POSTSTIM	WORKOVER	POOH	SNUB OUT 131 JTS OF 2 3/8 PH-6, P-110
12/2/2014 12:45	12/2/2014 14:30	1.75	POSTSTIM	WORKOVER	RD	R/D CUDD SNUBBING UNIT
12/2/2014 14:30	12/2/2014 15:15	0.75	POSTSTIM	WORKOVER	RU	R/U CAPITAN WIRE LINE TRUCK
12/2/2014 15:15	12/2/2014 17:30	2.25	POSTSTIM	NONOPS	PLANNE D	WAIT ON 9 ENERGY TO GET THE RIGHT EQUIPMENT ON LOCATION THEY BROUGHT A 3" 10K LUBRICATOR, GOT THAT SWAPPED OUT FOR A 5" LUBRICATOR, BUT IT WAS ALSO A 10K, AND COULD NOT FLANGE UP, UNTIL AN ADAPTER SPOOL WAS BROUGHT OUT.
12/2/2014 17:30	12/2/2014 18:00	0.5	POSTSTIM	WORKOVER	RU	R/U NINE ENERGY SERVICES. TURN OVER TO NIGHT SHIFT.
12/2/2014 18:00	12/2/2014 18:30	0.5	POSTSTIM	NONOPS	SAFETY	AOL, HOLD SAFETY MEETING W/RIG CREW
12/2/2014 18:30	12/2/2014 19:30	1	POSTSTIM	WORKOVER	RU	FINISH RIGGING UP LUBE.
12/2/2014 19:30	12/2/2014 22:30	3	POSTSTIM	WORKOVER	WIRELIN E	P/U 4.625 GUAGE RING/JUNK BASKET, PSI TEST LUBE TO 3000PSI TEST GOOD, EQUALIZE 1650PSI WBP, RIH TO 10,300FT W/GUAGE RING, POOH TO CHANGE OUT TOOLS.
12/2/2014 22:30	12/3/2014 02:00	3.5	POSTSTIM	WORKOVER	WIRELIN E	P/U 4.5 AS1 PACKER W/PUMP OUT PLUG, EQUALIZE 1650PSI WBP, RIH & SET PACKER AT 10,284FT, SET DOWN ON PACKER POOH, R/D E/LINE.
12/3/2014 02:00	12/3/2014 03:30	1.5	POSTSTIM	WORKOVER	BLEED	BLEED OFF B/S ON 12/64CH, CHECK FLOW, 0PSI NO FLOW.
12/3/2014 03:30	12/3/2014 06:00	2.5	POSTSTIM	WORKOVER	RIH	RIH W/2.375 PH-6, 130JTS IN HOLE, START LAYING DOWN SINGLES, SHIFT CHANGE, TURN OVER TO DAY CREW

Report #: 57 Daily Operation: 12/3/2014 06:00 - 12/4/2014 06:00

Job Category			Primary Job Type			AFE Number		
ORIG COMPLETION			OCM			032750		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)		Rig		
123	48	0.0				PIONEER WELL SERVICE, 22		

#### Operations Summary

P/U Production String, R.I.H. & Stand back

Remarks

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/3/2014 06:00	12/3/2014 08:30	2.5	POSTSTIM	WORKOVER	POOH	ARRIVED ON LOCATION & HELD PRE-JOB SAFETY MEETING WITH PIONEER RIG CREW. CONTINUED TO L/D 2 3/8 WORK STRING
12/3/2014 08:30	12/3/2014 12:30	4	POSTSTIM	NONOPS	PLANNE D	NIPPLE DOWN, FLOW CROSS & BOP. NIPPLE UP PRODUCTION WELL HEAD, B.O.P. & ANNULAR
12/3/2014 12:30	12/3/2014 14:00	1.5	POSTSTIM	NONOPS	PLANNE D	CHANGE PIPE RAMS IN B.O.P. TO 2 7/8
12/3/2014 14:00	12/3/2014 18:00	4	POSTSTIM	WORKOVER	RIH	R.I.H. W/ 320 JTS OF 2 7/8 - 8 RD PRODUCTION PIPE.
12/3/2014 18:00	12/3/2014 18:30	0.5	POSTSTIM	NONOPS	SAFETY	AOL, HOLD SAFETY MEETING W/PERSONNEL ON LOC
12/3/2014 18:30	12/3/2014 23:00	4.5	POSTSTIM	WORKOVER	RIH	CIH W/2.875 PRODUCTION PIPE, 327JTS IN HOLE.
12/3/2014 23:00	12/4/2014 01:30	2.5	POSTSTIM	WORKOVER	POOH	POOH RACKING TUBING IN DERRICK, PULL LAST JT SECURE WELL, WAIT ON DAYLIGHT TO RUN ESP ASSY, SHIFT CHANGE TURN OVER TO DAY CREW

Report #: 58 Daily Operation: 12/4/2014 06:00 - 12/5/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750
Days From Spud (days) 124	Days on Location (days) 49	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	
Operations Summary Run production tubing & ESP						
Remarks						

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/4/2014 06:00	12/4/2014 12:30	6.5	POSTSTIM	NONOPS	PLANNE D	WAITING ON ESP TO ARRIVE
12/4/2014 12:30	12/4/2014 18:00	5.5	POSTSTIM	NONOPS	PLANNE D	ESP ARRIVED ON LOCATION AT 12:30, I WAS INFORMED AT 14:30 THAT THE ACCELERATED HAND ON LOCATION DID, NOT HAVE A COUPLING TO ASSEMBLE THE PUMP. IT WAS EXPECTED TO ARRIVE AT 16:00, WHICH WAS NOT GOING TO LEAVE ENOUGH DAYLIGHT TO GET THE PUMP ASSEMBLED AND GET 50 STDS IN THE HOLE. SHUT DOWN AND WAIT UNTIL MORNING TO R.I.H.
12/4/2014 18:00	12/5/2014 06:00	12	POSTSTIM	NONOPS	PLANNE D	WIAT UNTIL MORNING TO START IN THE HOLE WITH ESP.

Report #: 59 Daily Operation: 12/5/2014 06:00 - 12/6/2014 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 032750	
Days From Spud (days) 125	Days on Location (days) 50	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22		
Operations Summary Run production tubing & ESP							
Remarks							

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/5/2014 06:00	12/5/2014 07:00	1	POSTSTIM	NONOPS	PLANNE D	WAIT FOR CREW & ACCELERATED PERSONNEL TO ARRIVE
12/5/2014 07:00	12/5/2014 07:15	0.25	POSTSTIM	NONOPS	PLANNE D	HELD SAFETY MEETING WITH PIONEER RIG CREW AND ACCELERATED PERSONNEL
12/5/2014 07:15	12/5/2014 18:00	10.75	POSTSTIM	WORKOVER	SETPRO D	R.I.H. WITH 2 7/8 - 8 RD PRODUCTION PIPE & ESP, 326JTS TOTAL IN HOLE W/ESP ASSY, SECURE WELL, INSTALL TIW SDFN.
12/5/2014 18:00	12/6/2014 06:00	12	POSTSTIM	NONOPS	PLANNE D	STNDBY, WAIT ON DAYLIGHT TO FINISH INSTALLING PRODUCTION STRING.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

**Report #: 60 Daily Operation: 12/6/2014 06:00 - 12/7/2014 06:00**

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	
126	50	0.0				

Operations Summary  
Pull ESP & Production tubing due to electrical failure on ESP

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/6/2014 06:00	12/6/2014 07:15	1.25	POSTSTIM	WORKOVER	SETPRO D	ARRIVED ON LOCATION, & WAITED ON CREWS TO ARRIVE & HELD PRE-JOB SAFETY MEETING WITH PIONEER RIG CREW & ACCELERATED PERSONNEL.
12/6/2014 07:15	12/6/2014 12:00	4.75	POSTSTIM	WORKOVER	SETPRO D	MADE SPLICE, LANDED TUBING WITH GT6 TUBING HANGER, CONNECTED TO CONTROL BOX, AND SHOWED BAD CONNECTION ON DOWN HOLE SENSOR. RE CHCKED AT JUNCTION BOX & SHOWED TO BE GROUNDED. CHECKED ABOVE AND BELOW THE MANDREL, AND STILL SHOWED TO BE GROUNDED. RE CHECKED BELOW ORIGINAL SPLICE, AND STILL SHOWED TO BE GROUNDED
12/6/2014 12:00	12/6/2014 15:00	3	POSTSTIM	NONOPS	PLANNE D	PREPARED TO PULL PRODUCTION TUBING & ESP OUT OF THE HOLE. NIPPLED UP B.O.P. & ANNULAR B.O.P. JUST WAITING ON SPOOL TRUCK TO ARRIVE
12/6/2014 15:00	12/6/2014 18:00	3	POSTSTIM	NONOPS	PLANNE D	DUE TO A FATAL CAR WRECK AT THE JUNCTION OF 1788 AND 176, NONE OF OUR EQUIPMENT COULD GET TO LOCATION. THE HIGHWAY PATROL HAD 176 SHUT DOWN FROM HWY 349 ALL THE WAY TO ANDREWS. HAD TO SHUT DOWN TILL TOMORROW MORNING.

**Report #: 61 Daily Operation: 12/7/2014 06:00 - 12/8/2014 06:00**

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	
127	50	0.0				

Operations Summary  
PULL ESP & PRODUCTION TUBING

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/7/2014 06:00	12/7/2014 08:00	2	POSTSTIM	NONOPS	PLANNE D	ARRIVED ON LOCATION, & HELD PRE-JOB SAFETY MEETING WITH PIONEER RIG CREW & ACCELERATED PERSONNEL. WAITED ON DAY LIGHT TO P.O.O.H.
12/7/2014 08:00	12/7/2014 18:00	10	POSTSTIM	WORKOVER	POOH	PULLED ESP & 326 JTS OF PRODUCTION TUBING OUT OF THE HOLE. RE-TESTED PUMP ON SURFACE, AND TEST'S SHOWED IT WAS A BAD PUMP. PREPARED ALL EQUIPMENT TO START IN THE HOLE AT DAYLIGHT TOMORROW. SDFTN

**Report #: 62 Daily Operation: 12/8/2014 06:00 - 12/9/2014 06:00**

Job Category ORIG COMPLETION				Primary Job Type OCM		AFE Number 032750
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER WELL SERVICE, 22	
128	51	0.0				

Operations Summary  
Run production tubing & ESP

Remarks

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/8/2014 06:00	12/8/2014 08:00	2	POSTSTIM	NONOPS	PLANNE D	ARRIVED ON LOCATION & HELD PRE-JOB SAFETY MEETING WITH PIONEER RIG CREW & ACCELERATED PERSONNEL. WAITED ON DAYLIGHT TO START IN THE HOLE.
12/8/2014 08:00	12/8/2014 09:45	1.75	POSTSTIM	WORKOVER	SETPRO D	ASSEMBLED ESP & ELECTRIC CABLE

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
12/8/2014 09:45	12/8/2014 15:00	5.25	POSTSTIM	WORKOVER	SETPRO D	R.I.H. W/ ESP & 326 JTS 2 7/8 8-RD PRODUCTION PIPE. TESTING THE ELECTRICAL CONNECTION EVERY 10 STDS.
12/8/2014 15:00	12/8/2014 16:00	1	POSTSTIM	WORKOVER	SETPRO D	MADE SPLICE FOR BOTTOM MANDREL CONNECTION & TESTED ELECTRICAL CONNECTION AGAIN (GOOD TEST) LANDED TUBING AT 10,221.9' WITH GT6 TUBING HANGER
12/8/2014 16:00	12/8/2014 18:00	2	POSTSTIM	WORKOVER	SETPRO D	NIPPLED DOWN B.O.P. & ANNULAR. NIPPLED UP PRODUCTION HEAD, MADE SPLICE FOR THE TOP MANDREL CONNECTION & CONNECTED TO JUNCTION BOX. MADE FINAL TEST AT CONTROL BOX, & TESTED PUMP (GOOD TEST) . SDFTN

### WELL DETAILS

Well Name UNIVERSITY 7-38 #28H	API/UWI 42-003-46078-0000	Operator PIONEER NATURAL RESRC USA INC
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### Wellbore Hole Size

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	End Date
Conductor	30	26.0	120.0	7/1/2014	7/1/2014
Surface	17 1/2	120.0	1,951.0	8/2/2014	8/4/2014
Intermediate	12 1/4	1,951.0	10,047.0	8/8/2014	8/19/2014
Production	8 3/4	10,047.0	20,743.0	8/19/2014	9/23/2014

### Conductor Casing

Run Date 7/1/2014		Set Depth (ftKB) 120.0			Centralizers 0				
Item Des		OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints		20	19.124	94.00	J-55	120.00	3	0.0	120.0

### Surface Casing

Set Depth (ftKB)	Run Date	Centralizers						
1,951.0	8/5/2014	15						
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	13 3/8	12.615	54.50	J-55	1,911.32	45	-6.4	1,905.0
Float Collar	13 3/8	12.615	54.50	J-55	1.45	1	1,905.0	1,906.4
Casing Joints	13 3/8	12.615	54.50	J-55	42.94	1	1,906.4	1,949.4
Float Shoe	13 3/8	12.615	54.50	J-55	1.65	1	1,949.4	1,951.0

### Surface Casing Cement

Type Casing	String Surface, 1,951.0ftKB	Cementing Start Date 8/6/2014	Cementing End Date 8/6/2014	Cementing Company Chief Cementing	Top (ftKB) 26.0	Btm (ftKB) 1,951.0
Class C 70/30/6	Amount (sacks) 730	Yield (ft³/sack) 1.93	Density (lb/gal) 12.80			
Class C	Amount (sacks) 410	Yield (ft³/sack) 1.71	Density (lb/gal) 13.60			

### Intermediate Casing

Set Depth (ftKB)	Run Date	Centralizers						
10,037.0	8/20/2014	0						
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Landing Joint	9 5/8	8.775		L-80	33.35	1	0.7	34.1
Casing Hanger	9 5/8	8.775		L-80	2.50	1	34.1	36.6
Casing Joints	9 5/8	8.775	43.50	L-80	6,797.22	147	36.6	6,833.8
Casing Joints	9 5/8	8.775	43.50	L-80	4.70	1	6,833.8	6,838.5
Casing Joints	9 5/8	8.775	43.50	L-80	3,101.68	67	6,838.5	9,940.2
Float Collar	9 5/8	8.755	43.50	L-80	1.56	1	9,940.2	9,941.7
Casing Joints	9 5/8	8.775	43.50	L-80	93.39	2	9,941.7	10,035.1
Float Shoe	9 5/8	8.755	43.50	L-80	1.88	1	10,035.1	10,037.0

### Intermediate Casing Cement

Type Casing	String Intermediate, 10,037.0ftKB	Cementing Start Date 8/21/2014	Cementing End Date 8/22/2014	Cementing Company Chief Cementing	Top (ftKB) 6,833.0	Btm (ftKB) 10,047.0
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## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Class Dsplmt		Amount (sacks)	0	Yield (ft³/sack)	Density (lb/gal)			8.33	
Class TXI LITEWEIGHT		Amount (sacks)	212	Yield (ft³/sack)	1.63			Density (lb/gal)	12.50
Class LITECRETE		Amount (sacks)	882	Yield (ft³/sack)	1.93			Density (lb/gal)	10.69
Type Casing	String Intermediate,	10,037.0ftKB	Cementing Start Date 8/21/2014	Cementing End Date 8/22/2014	Cementing Company Chief Cementing			Top (ftKB) 300.0	Btm (ftKB) 6,833.0
Class Dsplmt		Amount (sacks)	0	Yield (ft³/sack)	Density (lb/gal)			8.33	
Class TXI LITEWEIGHT		Amount (sacks)	201	Yield (ft³/sack)	1.63			Density (lb/gal)	12.50
Class LITECRETE		Amount (sacks)	1,521	Yield (ft³/sack)	1.92			Density (lb/gal)	10.69

### Production Casing

Set Depth (ftKB)	Run Date	Centralizers						
20,743.0	9/26/2014	8						
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Marker Joint	5 1/2	4.778	20.00	P-110 IC	0.00	0	26.0	26.0
Casing Joints	5 1/2	4.778	20.00	P-110 IC	0.00	0	26.0	26.0
Landing Joint	5 1/2	4.778	20.00	P-110 IC	37.68	1	26.0	63.7
Pup Joint	5 1/2	4.778	20.00	P-110 IC	4.00	1	63.7	67.7
Casing Joints	5 1/2	4.778	20.00	P-110 IC	9,928.75	234	67.7	9,996.4
Marker Joint	5 1/2	4.778	20.00	P-110 IC	14.10	1	9,996.4	10,010.5
Casing Joints	5 1/2	4.778	20.00	P-110 IC	10,576.73	248	10,010.5	20,587.3
Pup Joint	5 1/2	4.778	20.00	P-110 IC	6.67	1	20,587.3	20,593.9
Stage Tool	5 1/2	4.778	20.00	P-110 IC	14.30	1	20,593.9	20,608.2
Pup Joint	5 1/2	4.778	20.00	P-110 IC	4.10	1	20,608.2	20,612.3
Casing Joints	5 1/2	4.778	20.00	P-110 IC	37.65	1	20,612.3	20,650.0
Latch Collar	5 1/2	4.778	20.00	P-110 IC	1.52	1	20,650.0	20,651.5
Float Collar	5 1/2	4.778	20.00	P-110 IC	2.50	1	20,651.5	20,654.0
Casing Joints	5 1/2	4.778	20.00	P-110 IC	86.33	2	20,654.0	20,740.3
Float Shoe	5 1/2	4.778	20.00	P-110 IC	2.68	1	20,740.3	20,743.0

### Production Casing Cement

Type Casing	String Production, 20,743.0ftKB	Cementing Start Date 9/27/2014	Cementing End Date 9/28/2014	Cementing Company Chief Cementing	Top (ftKB) 26.0	Btm (ftKB) 10,050.0
Class Class C	Amount (sacks) 1,135	Yield (ft³/sack) 1.46		Density (lb/gal) 13.00		
Class Class A	Amount (sacks) 2,540	Yield (ft³/sack) 1.32		Density (lb/gal) 13.50		
Type Casing	String Production, 20,743.0ftKB	Cementing Start Date 9/27/2014	Cementing End Date 9/28/2014	Cementing Company Chief Cementing	Top (ftKB) 10,050.0	Btm (ftKB) 20,711.0
Class Class C	Amount (sacks) 0	Yield (ft³/sack)		Density (lb/gal) 12.90		

### Cement Squeeze

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

### Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
11,289.0	11,531.0	Wolfcamp D, <des>	5.0	50	Stage 31
11,589.0	11,831.0	Wolfcamp D, <des>	5.0	50	Stage 30
11,888.0	12,130.0	Wolfcamp D, <des>	5.0	50	Stage 29
12,188.0	12,430.0	Wolfcamp D, <des>	5.0	50	Stage 28
12,487.0	12,729.0	Wolfcamp D, <des>	5.0	50	Stage 27
12,787.0	13,029.0	Wolfcamp D, <des>	5.0	50	Stage 26
13,086.0	13,328.0	Wolfcamp D, <des>	5.0	50	Stage 25
13,386.0	13,628.0	Wolfcamp D, <des>	5.0	50	Stage 24
13,685.0	13,927.0	Wolfcamp D, <des>	5.0	50	Stage 23
13,985.0	14,227.0	Wolfcamp D, <des>	5.0	50	Stage 22
14,284.0	14,526.0	Wolfcamp D, <des>	5.0	50	Stage 21
14,584.0	14,826.0	Wolfcamp D, <des>	5.0	50	Stage 20



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
14,883.0	15,125.0	Wolfcamp D, <des>	5.0	50	Stage 19
15,183.0	15,425.0	Wolfcamp D, <des>	5.0	50	Stage 18
15,482.0	15,724.0	Wolfcamp D, <des>	5.0	50	Stage 17
15,782.0	16,024.0	Wolfcamp D, <des>	5.0	50	Stage 16
16,081.0	16,323.0	Wolfcamp D, <des>	5.0	50	Stage 15
16,381.0	16,623.0	Wolfcamp D, <des>	5.0	50	Stage 14
16,680.0	16,922.0	Wolfcamp D, <des>	5.0	50	Stage 13
16,980.0	17,222.0	Wolfcamp D, <des>	5.0	50	Stage 12
17,279.0	17,521.0	Wolfcamp D, <des>	5.0	50	Stage 11
17,579.0	17,821.0	Wolfcamp D, <des>	5.0	50	Stage 10
17,878.0	18,120.0	Wolfcamp D, <des>	5.0	50	Stage 9
18,178.0	18,420.0	Wolfcamp D, <des>	5.0	50	Stage 8
18,298.0	18,298.0	Wolfcamp D, <des>	5.0	30	Reperf stage 8
18,477.0	18,719.0	Wolfcamp D, <des>	5.0	50	Stage 7
18,777.0	19,019.0	Wolfcamp D, <des>	5.0	50	Stage 6
19,076.0	19,318.0	Wolfcamp D, <des>	5.0	50	Stage 5
19,376.0	19,618.0	Wolfcamp D, <des>	5.0	50	Stage 4
19,675.0	19,917.0	Wolfcamp D, <des>	5.0	50	Stage 3
19,975.0	20,217.0	Wolfcamp D, <des>	5.0	50	Stage 2
20,272.0	20,516.0	Wolfcamp D, <des>	5.0	50	Stage 1
20,593.0	20,608.0	Wolfcamp D, <des>	5.0	50	Sleeve did not shift. held at 9200#

### Stimulations & Treatments (Actual)

#### Stage 1 Ernest Barrera, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
10/15/2014	Frac	Pioneer Pumping Services	20,593.0	20,607.0	Super DC Resin Coated Sand 56195 lbm; White Sand 455036 lbm	12,048.00

#### Stage 2 Clint Sims, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
10/17/2014	Frac	Pioneer Pumping Services	19,975.0	20,217.0	Super DC Resin Coated Sand 124235 lbm; White Sand 384817 lbm	14,640.00

#### Stage 3 Ernest Barrera, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
10/17/2014	Frac	Pioneer Pumping Services	19,675.0	19,917.0	Super DC Resin Coated Sand 29538 lbm; White Sand 483027 lbm	7,865.00

#### Stage 4: Clint Sims, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
10/17/2014	Frac	Pioneer Pumping Services	19,376.0	19,618.0	Super DC Resin Coated Sand 65575 lbm; White Sand 454233 lbm	7,610.00

#### Stage 5: Clint Sims, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
10/18/2014	Frac	Pioneer Pumping Services	19,076.0	19,318.0	Super DC Resin Coated Sand 52673 lbm; White Sand 455091 lbm	7,201.00

#### Stage 6 Ernest Barrera, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
10/18/2014	Frac	Pioneer Pumping Services	18,777.0	19,019.0	White Sand 443971 lbm	7,342.00

#### Stage 7 Ernest Barrera, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
10/18/2014	Frac	Pioneer Pumping Services	18,477.0	18,719.0	Super DC Resin Coated Sand 65632 lbm; White Sand 446606 lbm	7,636.00

#### Stage 8 Ernest Barrera, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/2/2014	Frac	Pioneer Pumping Services	18,178.0	18,420.0	Super DC Resin Coated Sand 8099 lbm; White Sand 465174 lbm	11,112.00

#### Stage 9 Mike Madrid, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/3/2014	Frac	Pioneer Pumping Services	17,878.0	18,120.0	Super DC Resin Coated Sand 54204 lbm; White Sand 456380 lbm	8,935.00

#### Stage 10: Clint Sims, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/3/2014	Frac	Pioneer Pumping Services	17,579.0	17,821.0	Super DC Resin Coated Sand 55052 lbm; White Sand 458908 lbm	7,421.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Stimulations & Treatments (Actual)

#### Stage 11 Mike Madrid, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/4/2014	Frac	Pioneer Pumping Services	17,279.0	17,521.0	Super DC Resin Coated Sand 48589 lbm; White Sand 461669 lbm	10,301.00

#### Stage 12 Mark Abila, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/7/2014	Frac	Pioneer Pumping Services	16,980.0	17,222.0	Super DC Resin Coated Sand 54893 lbm; White Sand 457082 lbm	7,588.00

#### Stage 13 Mark Abila, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/8/2014	Frac	Pioneer Pumping Services	16,680.0	16,922.0	Super DC Resin Coated Sand 56232 lbm; White Sand 456601 lbm	7,304.00

#### Stage 14 Ernest Barrera, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/8/2014	Frac	Pioneer Pumping Services	16,381.0	16,623.0	Super DC Resin Coated Sand 56243 lbm; White Sand 454787 lbm	7,358.00

#### Stage 15 Mark Abila, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/8/2014	Frac	Pioneer Pumping Services	16,081.0	16,323.0	White Sand 463000 lbm	7,022.00

#### Stage 16 Mark Abila, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/9/2014	Frac	Pioneer Pumping Services	15,782.0	16,024.0	Super DC Resin Coated Sand 58225 lbm; White Sand 450024 lbm	7,443.00

#### Stage 17 Ernest Barrera, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/9/2014	Frac	Pioneer Pumping Services	15,482.0	15,724.0	White Sand 509260 lbm	7,267.00

#### Stage 18 Mark Abila, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/9/2014	Frac	Pioneer Pumping Services	15,183.0	15,425.0	White Sand 514870 lbm	7,228.00

#### Stage 19 Ernest Barrera, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/10/2014	Frac	Pioneer Pumping Services	14,883.0	15,125.0	White Sand 511852 lbm	7,256.00

#### Stage 20 Mark Abila, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/10/2014	Frac	Pioneer Pumping Services	14,584.0	14,826.0	White Sand 409597 lbm	7,344.00

#### Stage 21 Mark Abila, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/11/2014	Frac	Pioneer Pumping Services	14,284.0	14,526.0	White Sand 508208 lbm	7,373.00

#### Stage 22 Clint Sims, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/11/2014	Frac	Pioneer Pumping Services	13,985.0	14,227.0	White Sand 500779 lbm	7,143.00

#### Stage 23 Mike Madrid, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/12/2014	Frac	Pioneer Pumping Services	13,685.0	13,927.0	White Sand 513228 lbm	7,481.00

#### Stage 24 Clint Sims, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/12/2014	Frac	Pioneer Pumping Services	13,386.0	13,628.0	White Sand 509313 lbm	7,154.00

#### Stage 25 Mike Madrid, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/13/2014	Frac	Pioneer Pumping Services	13,086.0	13,328.0	White Sand 516241 lbm	7,282.00

#### Stage 26 Mike Madrid, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/14/2014	Frac	Pioneer Pumping Services	12,787.0	13,029.0	White Sand 512061 lbm	7,210.00

#### Stage 27 Clint Sims, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/14/2014	Frac	Pioneer Pumping Services	12,487.0	12,729.0	White Sand 510029 lbm	7,103.00

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Stimulations & Treatments (Actual)

#### Clint Sims/Mike Madrid= Stage 28 , Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/15/2014	Frac	Pioneer Pumping Services	12,188.0	12,430.0	White Sand 429519 lbm	6,655.00

#### Stage 29 Rudy Abila, Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/18/2014	Frac	Pioneer Pumping Services	11,888.0	12,130.0	White Sand 498391 lbm	6,988.00

#### STAGE 30 - MIGUEL MARTINEZ , Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/18/2014	Frac	Pioneer Pumping Services	11,589.0	11,831.0	Brown Sand 512363 lbm	7,072.00

#### STAGE 31 - MIGUEL MARTINEZ , Wolfcamp D, <des>

Date	Type	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)	Total Add Amount	Total Clean Volume (bbl)
11/19/2014	Frac	Pioneer Pumping Services	11,289.0	11,531.0	Brown Sand 511265 lbm	7,079.00

### Zones

Zone Name	Top (ftKB)
Wolfcamp D	

### Tubing Details

Tubing Description	Set Depth (ftKB)	Run Date
Tubing - Production	10,221.9	12/5/2014

### Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Tubing	2 7/8	6.50	L-80	9,742.00	316	23.9	9,765.9
Sliding sleeve - closed	2 7/8	6.50	L-80	3.00	1	9,765.9	9,768.9
Tubing	2 7/8	6.50	L-80	31.10	1	9,768.9	9,800.0
Seat Nipple	2 7/8			1.00	1	9,800.0	9,801.0
Tubing	2 7/8	6.50	L-80	31.05	1	9,801.0	9,832.1
E.S.P. Assembly	4			134.23	1	9,832.1	9,966.3
Desander	2 7/8	6.50	L-80	6.15	1	9,966.3	9,972.5
Tubing	2 7/8	6.50	L-80	248.96	8	9,972.5	10,221.4
Bull Plug	2 7/8			0.50	1	10,221.4	10,221.9

### Rod Strings

Rod Description	Set Depth (ftKB)	Run Date

### Rod Components

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

### Other In Hole

Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Pull Date	Com	String	Wellbore
Frac Plug	20,245.0	20,246.0	5 1/2	10/15/2014	12/2/2014			Original Hole
Frac Plug	19,932.0	19,933.0	5 1/2	10/17/2014	12/2/2014			Original Hole
Frac Plug	19,646.0	19,647.0	5 1/2	10/17/2014	12/2/2014			Original Hole
Frac Plug	19,347.0	19,348.0	5 1/2	10/17/2014	12/2/2014			Original Hole
Frac Plug	19,047.0	19,048.0	5 1/2	10/18/2014	12/2/2014			Original Hole
Frac Plug	18,748.0	18,749.0	5 1/2	10/18/2014	12/2/2014			Original Hole
Frac Plug	18,430.0	18,431.0	5 1/2	10/31/2014	12/2/2014			Original Hole
Frac Plug	18,149.0	18,150.0	5 1/2	11/2/2014	12/2/2014			Original Hole
Frac Plug	17,849.0	17,850.0	5 1/2	11/3/2014	12/2/2014			Original Hole
Frac Plug	17,546.0	17,547.0	5 1/2	11/3/2014	12/2/2014			Original Hole
Frac Plug	17,248.0	17,249.0	5 1/2	11/6/2014	12/2/2014			Original Hole
Frac Plug	16,946.0	16,947.0	5 1/2	11/7/2014	12/2/2014			Original Hole
Frac Plug	16,644.0	16,645.0	5 1/2	11/8/2014	12/2/2014			Original Hole
Frac Plug	16,342.0	16,343.0	5 1/2	11/8/2014	12/2/2014			Original Hole
Frac Plug	16,060.0	16,061.0	5 1/2	11/8/2014	12/2/2014			Original Hole
Frac Plug	15,758.0	15,759.0	5 1/2	11/9/2014	12/2/2014			Original Hole
Frac Plug	15,456.0	15,457.0	5 1/2	11/9/2014	12/2/2014			Original Hole

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

### Other In Hole

Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Pull Date	Com	String	Wellbore
Frac Plug	15,154.0	15,155.0	5 1/2	11/10/2014	12/2/2014			Original Hole
Frac Plug	14,854.0	14,855.0	5 1/2	11/10/2014	12/2/2014			Original Hole
Frac Plug	14,555.0	14,556.0	5 1/2	11/10/2014	12/2/2014			Original Hole
Frac Plug	14,255.0	14,256.0	5 1/2	11/11/2014	12/2/2014			Original Hole
Frac Plug	13,956.0	13,957.0	5 1/2	11/11/2014	12/2/2014			Original Hole
Frac Plug	13,656.0	13,657.0	5 1/2	11/12/2014	12/2/2014			Original Hole
Frac Plug	13,357.0	13,358.0	5 1/2	11/12/2014	12/2/2014			Original Hole
Frac Plug	13,057.0	13,058.0	5 1/2	11/14/2014	12/2/2014			Original Hole
Frac Plug	12,758.0	12,759.0	5 1/2	11/14/2014	12/2/2014			Original Hole
Frac Plug	12,458.0	12,459.0	5 1/2	11/14/2014	12/2/2014			Original Hole
Frac Plug	11,864.0	11,865.0	5 1/2	11/18/2014	12/2/2014			Original Hole
Frac Plug	11,564.0	11,565.0	5 1/2	11/19/2014	12/2/2014			Original Hole
Bridge Plug	9,090.0	9,091.0	5 1/2	11/19/2014	12/2/2014			Original Hole
Bridge Plug	9,000.0	9,001.0	5 1/2	11/19/2014	12/2/2014			Original Hole
Packer	10,274.0	10,283.0	5 1/2	12/2/2014				Original Hole

### Well Tests

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

### Directional Survey

Date		Description						
7/31/2014		Actual Surveys						
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company		
8/3/2014	0.00	0.00	0.00	0.00	0.00	Scientific Drilling		
8/3/2014	127.00	0.25	7.81	127.00	0.28	Scientific Drilling		
8/3/2014	216.00	0.41	27.38	216.00	0.78	Scientific Drilling		
8/3/2014	368.00	0.54	46.85	367.99	2.02	Scientific Drilling		
8/3/2014	548.00	1.46	22.67	547.96	5.11	Scientific Drilling		
8/3/2014	727.00	2.36	14.18	726.86	11.06	Scientific Drilling		
8/3/2014	910.00	2.23	15.38	909.72	18.39	Scientific Drilling		
8/3/2014	1,090.00	2.25	11.74	1,089.58	25.42	Scientific Drilling		
8/3/2014	1,151.31	2.24	9.34	1,150.84	27.82	Scientific Drilling		
8/3/2014	1,341.44	2.42	22.14	1,340.82	35.50	Scientific Drilling		
8/3/2014	1,531.57	2.32	20.68	1,530.78	43.37	Scientific Drilling		
8/3/2014	1,721.70	2.04	8.15	1,720.78	50.56	Scientific Drilling		
8/3/2014	1,911.83	2.24	10.46	1,910.77	57.65	Scientific Drilling		
8/3/2014	1,951.09	2.20	13.47	1,950.00	59.17	Scientific Drilling		
8/3/2014	2,101.96	2.12	25.77	2,100.77	64.83	Scientific Drilling		
8/3/2014	2,292.09	2.24	26.69	2,290.76	72.06	Scientific Drilling		
8/3/2014	2,482.22	5.16	24.37	2,480.47	84.33	Scientific Drilling		
8/3/2014	2,672.35	5.78	26.52	2,669.74	102.45	Scientific Drilling		
8/3/2014	2,862.48	5.19	21.70	2,859.00	120.60	Scientific Drilling		
8/3/2014	3,052.61	4.71	12.62	3,048.42	136.96	Scientific Drilling		
8/3/2014	3,242.74	5.23	13.21	3,237.83	153.43	Scientific Drilling		
8/3/2014	3,431.82	5.76	16.67	3,426.05	171.53	Scientific Drilling		
8/3/2014	3,620.70	6.08	20.28	3,613.92	191.00	Scientific Drilling		
8/3/2014	3,809.43	4.63	17.71	3,801.82	208.61	Scientific Drilling		
8/3/2014	3,998.17	4.89	21.86	3,989.91	224.26	Scientific Drilling		
8/3/2014	4,186.87	5.26	22.36	4,177.87	240.95	Scientific Drilling		
8/3/2014	4,376.46	5.54	25.16	4,366.62	258.79	Scientific Drilling		
8/3/2014	4,564.95	5.82	25.83	4,554.18	277.44	Scientific Drilling		
8/3/2014	4,753.44	5.20	20.72	4,741.80	295.52	Scientific Drilling		
8/3/2014	4,941.93	4.94	23.99	4,929.55	312.18	Scientific Drilling		
8/3/2014	5,130.42	4.25	17.77	5,117.44	327.25	Scientific Drilling		
8/3/2014	5,319.48	4.69	20.90	5,305.92	341.98	Scientific Drilling		

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
8/3/2014	5,508.22	5.12	19.62	5,493.97	358.12	Scientific Drilling
8/3/2014	5,697.24	3.40	4.53	5,682.47	372.04	Scientific Drilling
8/3/2014	5,886.66	1.42	312.18	5,871.73	379.34	Scientific Drilling
8/3/2014	6,076.41	1.48	297.61	6,061.42	384.10	Scientific Drilling
8/3/2014	6,264.80	1.74	292.28	6,249.74	389.39	Scientific Drilling
8/3/2014	6,453.64	1.92	290.54	6,438.48	395.42	Scientific Drilling
8/3/2014	6,641.32	1.55	268.25	6,626.07	400.99	Scientific Drilling
8/3/2014	6,826.70	1.44	274.32	6,811.39	405.82	Scientific Drilling
8/3/2014	7,016.29	0.86	290.86	7,000.94	409.59	Scientific Drilling
8/3/2014	7,205.88	0.68	301.86	7,190.52	412.13	Scientific Drilling
8/3/2014	7,395.47	0.73	354.53	7,380.09	414.22	Scientific Drilling
8/3/2014	7,585.06	1.57	27.64	7,569.65	417.89	Scientific Drilling
8/3/2014	7,774.87	1.41	45.33	7,759.39	422.76	Scientific Drilling
8/3/2014	7,963.39	1.36	50.58	7,947.86	427.32	Scientific Drilling
8/3/2014	8,151.91	1.85	79.90	8,136.31	432.43	Scientific Drilling
8/3/2014	8,340.43	2.23	84.80	8,324.71	439.13	Scientific Drilling
8/3/2014	8,528.95	1.71	120.76	8,513.12	445.30	Scientific Drilling
8/3/2014	8,717.47	1.75	177.60	8,701.57	450.31	Scientific Drilling
8/3/2014	8,905.99	2.08	194.23	8,889.98	456.54	Scientific Drilling
8/3/2014	9,094.25	1.62	215.81	9,078.15	462.51	Scientific Drilling
8/3/2014	9,282.83	1.78	208.02	9,266.64	468.10	Scientific Drilling
8/3/2014	9,472.10	2.36	202.31	9,455.79	474.92	Scientific Drilling
8/3/2014	9,661.10	2.76	200.91	9,644.60	483.37	Scientific Drilling
8/3/2014	9,850.04	3.29	197.34	9,833.28	493.33	Scientific Drilling
8/3/2014	10,027.11	3.85	198.30	10,010.00	504.36	Scientific Drilling
8/3/2014	10,034.00	3.87	198.33	10,016.88	504.82	Scientific Drilling
8/3/2014	10,085.00	7.75	198.07	10,067.61	509.98	Scientific Drilling
8/3/2014	10,117.00	12.53	198.99	10,099.10	515.61	Scientific Drilling
8/3/2014	10,148.00	14.77	196.70	10,129.22	522.93	Scientific Drilling
8/3/2014	10,180.00	16.53	187.91	10,160.04	531.54	Scientific Drilling
8/3/2014	10,211.00	18.91	180.18	10,189.57	540.95	Scientific Drilling
8/3/2014	10,242.00	20.66	174.12	10,218.74	551.43	Scientific Drilling
8/3/2014	10,274.00	22.16	170.86	10,248.53	563.11	Scientific Drilling
8/3/2014	10,305.00	23.13	167.79	10,277.14	575.04	Scientific Drilling
8/3/2014	10,337.00	25.24	161.20	10,306.34	588.13	Scientific Drilling
8/3/2014	10,368.00	28.84	154.43	10,333.95	602.20	Scientific Drilling
8/3/2014	10,400.00	32.36	150.38	10,361.49	618.48	Scientific Drilling
8/3/2014	10,431.00	35.17	148.01	10,387.26	635.70	Scientific Drilling
8/3/2014	10,463.00	37.64	146.25	10,413.02	654.69	Scientific Drilling
8/3/2014	10,494.00	39.92	144.41	10,437.18	674.10	Scientific Drilling
8/3/2014	10,526.00	42.47	143.97	10,461.26	695.18	Scientific Drilling
8/3/2014	10,557.00	44.32	145.29	10,483.78	716.47	Scientific Drilling
8/3/2014	10,588.00	47.57	146.25	10,505.34	738.75	Scientific Drilling
8/3/2014	10,620.00	50.56	147.40	10,526.30	762.92	Scientific Drilling
8/3/2014	10,651.00	53.38	148.63	10,545.40	787.33	Scientific Drilling
8/3/2014	10,714.00	56.72	150.38	10,581.49	838.96	Scientific Drilling
8/3/2014	10,745.00	58.56	150.21	10,598.08	865.15	Scientific Drilling
8/3/2014	10,777.00	60.32	148.98	10,614.35	892.70	Scientific Drilling
8/3/2014	10,809.00	61.99	149.07	10,629.79	920.73	Scientific Drilling
8/3/2014	10,840.00	62.82	150.01	10,644.15	948.20	Scientific Drilling
8/3/2014	10,872.00	64.90	150.12	10,658.24	976.93	Scientific Drilling
8/3/2014	10,903.00	67.87	150.82	10,670.66	1,005.33	Scientific Drilling
8/3/2014	10,934.00	71.75	152.41	10,681.36	1,034.42	Scientific Drilling
8/3/2014	10,966.00	74.66	153.55	10,690.60	1,065.05	Scientific Drilling
8/3/2014	10,998.00	76.68	154.16	10,698.52	1,096.05	Scientific Drilling
8/3/2014	11,029.00	79.21	154.62	10,705.00	1,126.36	Scientific Drilling



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
8/3/2014	11,061.00	81.87	154.87	10,710.26	1,157.92	Scientific Drilling
8/3/2014	11,092.00	83.10	154.96	10,714.31	1,188.66	Scientific Drilling
8/3/2014	11,124.00	84.94	155.57	10,717.64	1,220.48	Scientific Drilling
8/3/2014	11,155.00	85.47	155.83	10,720.24	1,251.37	Scientific Drilling
8/3/2014	11,218.00	87.85	156.27	10,723.91	1,314.26	Scientific Drilling
8/3/2014	11,249.00	88.55	156.18	10,724.88	1,345.25	Scientific Drilling
8/3/2014	11,281.00	89.78	156.10	10,725.35	1,377.24	Scientific Drilling
8/3/2014	11,312.00	93.74	156.89	10,724.39	1,408.22	Scientific Drilling
8/3/2014	11,375.00	92.24	156.18	10,721.11	1,471.13	Scientific Drilling
8/3/2014	11,469.00	91.10	155.22	10,718.37	1,565.09	Scientific Drilling
8/3/2014	11,564.00	91.98	155.31	10,715.81	1,660.06	Scientific Drilling
8/3/2014	11,658.00	91.10	154.25	10,713.29	1,754.02	Scientific Drilling
8/3/2014	11,753.00	92.07	154.96	10,710.66	1,848.98	Scientific Drilling
8/3/2014	11,847.00	91.98	157.33	10,707.34	1,942.92	Scientific Drilling
8/3/2014	11,942.00	91.98	160.32	10,704.06	2,037.85	Scientific Drilling
8/3/2014	12,037.00	91.98	162.16	10,700.77	2,132.79	Scientific Drilling
8/3/2014	12,131.00	92.68	165.15	10,696.95	2,226.70	Scientific Drilling
8/3/2014	12,226.00	91.63	167.88	10,693.38	2,321.62	Scientific Drilling
8/3/2014	12,320.00	91.23	168.84	10,691.03	2,415.59	Scientific Drilling
8/3/2014	12,414.00	92.15	169.90	10,688.26	2,509.55	Scientific Drilling
8/3/2014	12,508.00	92.33	166.47	10,684.58	2,603.46	Scientific Drilling
8/3/2014	12,603.00	90.75	166.73	10,682.03	2,698.42	Scientific Drilling
8/3/2014	12,697.00	90.04	166.38	10,681.38	2,792.42	Scientific Drilling
8/3/2014	12,791.00	89.25	166.47	10,681.97	2,886.42	Scientific Drilling
8/3/2014	12,885.00	89.43	165.76	10,683.05	2,980.41	Scientific Drilling
8/3/2014	12,978.00	90.48	166.29	10,683.12	3,073.41	Scientific Drilling
8/3/2014	13,073.00	90.22	166.12	10,682.54	3,168.41	Scientific Drilling
8/3/2014	13,167.00	90.92	165.68	10,681.61	3,262.40	Scientific Drilling
8/3/2014	13,262.00	92.33	166.12	10,678.91	3,357.36	Scientific Drilling
8/3/2014	13,355.00	91.63	166.64	10,675.70	3,450.31	Scientific Drilling
8/3/2014	13,449.00	92.07	165.41	10,672.66	3,544.25	Scientific Drilling
8/3/2014	13,542.00	92.68	166.20	10,668.81	3,637.17	Scientific Drilling
8/3/2014	13,636.00	94.00	165.94	10,663.33	3,731.01	Scientific Drilling
8/3/2014	13,731.00	93.12	165.24	10,657.44	3,825.83	Scientific Drilling
8/3/2014	13,825.00	92.77	165.15	10,652.61	3,919.70	Scientific Drilling
8/3/2014	13,919.00	91.54	164.80	10,649.07	4,013.63	Scientific Drilling
8/3/2014	14,014.00	90.40	165.59	10,647.46	4,108.62	Scientific Drilling
8/3/2014	14,108.00	90.85	165.15	10,646.44	4,202.61	Scientific Drilling
8/3/2014	14,201.00	89.16	166.38	10,646.43	4,295.61	Scientific Drilling
8/3/2014	14,295.00	89.96	166.73	10,647.15	4,389.60	Scientific Drilling
8/3/2014	14,389.00	90.66	166.91	10,646.64	4,483.60	Scientific Drilling
8/3/2014	14,484.00	91.98	166.73	10,644.45	4,578.57	Scientific Drilling
8/3/2014	14,578.00	92.07	167.61	10,641.13	4,672.51	Scientific Drilling
8/3/2014	14,672.00	88.64	165.76	10,640.55	4,766.49	Scientific Drilling
8/3/2014	14,767.00	89.60	166.03	10,642.01	4,861.48	Scientific Drilling
8/3/2014	14,861.00	92.07	166.64	10,640.64	4,955.46	Scientific Drilling
8/3/2014	14,954.00	88.90	164.18	10,639.85	5,048.44	Scientific Drilling
8/3/2014	15,048.00	90.22	163.74	10,640.57	5,142.44	Scientific Drilling
8/3/2014	15,142.00	89.43	162.78	10,640.86	5,236.43	Scientific Drilling
8/3/2014	15,237.00	90.57	163.30	10,640.86	5,331.43	Scientific Drilling
8/3/2014	15,330.00	91.10	163.92	10,639.51	5,424.42	Scientific Drilling
8/3/2014	15,425.00	90.04	164.45	10,638.56	5,519.42	Scientific Drilling
8/3/2014	15,519.00	90.57	164.36	10,638.06	5,613.41	Scientific Drilling
8/3/2014	15,614.00	90.75	164.97	10,636.97	5,708.41	Scientific Drilling
8/3/2014	15,708.00	91.10	164.89	10,635.45	5,802.39	Scientific Drilling
8/3/2014	15,803.00	91.19	166.03	10,633.55	5,897.37	Scientific Drilling

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-38 #28H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
8/3/2014	15,895.00	89.16	164.89	10,633.27	5,989.37	Scientific Drilling
8/3/2014	15,990.00	89.78	165.17	10,634.15	6,084.36	Scientific Drilling
8/3/2014	16,084.00	91.19	165.59	10,633.35	6,178.36	Scientific Drilling
8/3/2014	16,179.00	90.66	164.62	10,631.82	6,273.34	Scientific Drilling
8/3/2014	16,273.00	90.22	165.59	10,631.10	6,367.34	Scientific Drilling
8/3/2014	16,367.00	89.16	166.56	10,631.61	6,461.33	Scientific Drilling
8/3/2014	16,461.00	89.78	167.00	10,632.47	6,555.33	Scientific Drilling
8/3/2014	16,556.00	91.45	168.31	10,631.46	6,650.32	Scientific Drilling
8/3/2014	16,651.00	93.30	169.02	10,627.52	6,745.23	Scientific Drilling
8/3/2014	16,746.00	94.00	169.28	10,621.47	6,840.04	Scientific Drilling
8/3/2014	16,840.00	91.10	167.96	10,617.29	6,933.93	Scientific Drilling
8/3/2014	16,934.00	88.46	166.20	10,617.65	7,027.92	Scientific Drilling
8/3/2014	17,029.00	89.87	168.84	10,619.03	7,122.90	Scientific Drilling
8/3/2014	17,123.00	90.13	171.30	10,619.03	7,216.89	Scientific Drilling
8/3/2014	17,218.00	90.22	171.57	10,618.74	7,311.89	Scientific Drilling
8/3/2014	17,312.00	90.57	171.04	10,618.10	7,405.89	Scientific Drilling
8/3/2014	17,406.00	89.34	170.51	10,618.17	7,499.89	Scientific Drilling
8/3/2014	17,501.00	89.25	169.90	10,619.34	7,594.88	Scientific Drilling
9/7/2014	17,595.00	88.64	169.28	10,621.07	7,688.86	Scientific Drilling
9/7/2014	17,689.00	89.16	169.54	10,622.87	7,782.85	Scientific Drilling
9/8/2014	17,783.00	91.72	168.75	10,622.15	7,876.83	Scientific Drilling
9/9/2014	17,878.00	89.60	167.52	10,621.06	7,971.82	Scientific Drilling
9/10/2014	17,972.00	90.66	167.26	10,620.84	8,065.82	Scientific Drilling
9/10/2014	18,066.00	91.63	166.64	10,618.97	8,159.80	Scientific Drilling
9/10/2014	18,160.00	92.24	166.12	10,615.79	8,253.74	Scientific Drilling
9/12/2014	18,254.00	91.01	164.08	10,613.13	8,347.70	Scientific Drilling
9/15/2014	18,350.00	90.13	166.20	10,612.17	8,443.69	Scientific Drilling
9/15/2014	18,444.00	89.60	166.38	10,612.39	8,537.69	Scientific Drilling
9/15/2014	18,538.00	91.19	166.12	10,611.74	8,631.68	Scientific Drilling
9/15/2014	18,633.00	92.54	165.94	10,608.65	8,726.63	Scientific Drilling
9/17/2014	18,727.00	90.92	165.06	10,605.82	8,820.58	Scientific Drilling
9/18/2014	18,821.00	88.46	165.50	10,606.32	8,914.57	Scientific Drilling
9/18/2014	18,915.00	90.66	166.56	10,607.05	9,008.56	Scientific Drilling
9/18/2014	19,009.00	89.60	166.56	10,606.83	9,102.56	Scientific Drilling
9/18/2014	19,103.00	88.55	165.33	10,608.35	9,196.55	Scientific Drilling
9/18/2014	19,198.00	88.20	164.62	10,611.04	9,291.51	Scientific Drilling
9/18/2014	19,292.00	90.13	164.18	10,612.41	9,385.49	Scientific Drilling
9/19/2014	19,386.00	91.45	164.01	10,611.12	9,479.48	Scientific Drilling
9/19/2014	19,481.00	89.60	162.78	10,610.25	9,574.47	Scientific Drilling
9/20/2014	19,576.00	89.52	163.39	10,610.98	9,669.47	Scientific Drilling
9/20/2014	19,670.00	90.31	163.04	10,611.12	9,763.47	Scientific Drilling
9/20/2014	19,765.00	90.04	162.78	10,610.83	9,858.47	Scientific Drilling
9/20/2014	19,859.00	88.37	160.93	10,612.13	9,952.45	Scientific Drilling
9/20/2014	19,953.00	91.10	162.07	10,612.57	10,046.44	Scientific Drilling
9/20/2014	20,047.00	93.03	163.92	10,609.18	10,140.37	Scientific Drilling
9/21/2014	20,142.00	92.24	164.01	10,604.81	10,235.27	Scientific Drilling
9/22/2014	20,236.00	88.90	164.80	10,603.88	10,329.25	Scientific Drilling
9/22/2014	20,330.00	90.22	165.68	10,604.60	10,423.24	Scientific Drilling
9/22/2014	20,425.00	89.60	168.23	10,604.75	10,518.24	Scientific Drilling
9/22/2014	20,519.00	90.48	168.93	10,604.68	10,612.23	Scientific Drilling
9/22/2014	20,614.00	88.81	167.26	10,605.27	10,707.23	Scientific Drilling
9/23/2014	20,699.00	91.54	169.37	10,605.01	10,792.21	Scientific Drilling
9/24/2014	20,743.00	91.54	169.37	10,603.83	10,836.20	Scientific Drilling