

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### UNIVERSITY 7-43 28H

API/UWI 42-003-47294-0000	Property Sub 927638-028	Operator PIONEER NATURAL RESRC USA, INC	State TEXAS	County ANDREWS
Field Name SPRABERRY (TREND AREA)	Surface Legal Location 367' FNL/ 1948' FEL, SEC: 36, BLK: 7, TWP: , SVY: UNIVERSITY LANDS			
Spud Date 2/7/2016	TD Date 3/29/2016	Drilling Rig Release Date 4/1/2016	Frac Date	On Production Date
Ground Elevation (ft) 2,960.00	Original KB Elevation (ft) 2,989.00	PBTD (All) (ftKB)	Total Depth (All) (ftKB) ORIGINAL - 20,165.0	Total Depth All (TVD) (ftKB) ORIGINAL - 9,386.7

Report #: 1 Daily Operation: 2/7/2016 06:00 - 2/8/2016 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 037567
Days From Spud (days) 1	Days on Location (days) 1	End Depth (ftKB) 1,924.0
		End Depth (TVD) (ftKB) 1,924.0
		Dens Last Mud (lb/gal)
		Rig PATTERSON - UTI, 802

#### Operations Summary

Skid rig to 28H,R/U.Drill surface TD 1,924',tooh to run csg.

Spud:12:30 1/7/16

TD 02:30 1/8/16 @1924.

#### Remarks

No Accidents or Spills.

#### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/7/2016 06:00	2/7/2016 08:00	2		SKID	SKID	Skid / Walk from University 7-43 27H to the University 7-43 28H.
2/7/2016 08:00	2/7/2016 10:00	2		RIG UP	RU	Set HPU skid extensions; Rig up mud lines, set cellar pumps in place & rig up. Walk catwalk in place & set V-door. Test mud lines from pumps to top drive.
2/7/2016 10:00	2/7/2016 10:30	0.5		RIG INSPECTION	RIG_INS P	Perfrom C.R.I. on rig before spudding.  ** Accept rig @ 10:30 hrs.
2/7/2016 10:30	2/7/2016 11:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Service Rig: Lubricate from the crown to the ground.
2/7/2016 11:00	2/7/2016 11:15	0.25		SAFETY	SFTY	PJSM with Patterson rig crew, TP, Leam directional & PNR CM over handling BHA.
2/7/2016 11:15	2/7/2016 12:30	1.25		P/U BHA	PU_BHA	Directional Work: PU & MU new motor & bit.. Power up EM tool. Tag @ 129'.
2/7/2016 12:30	2/7/2016 16:15	3.75		DRILL	DRL	Spud well @ 12:30 hrs. Drill Surface 129' to 547' (418' @ 11 fph). Drilling w/ HWDP inplace of DC's.  ** Contacted TRRC @ 13:20 hrs on 2/7/16, spoke w/ Brenda for notification of 13-3/8" Surface Cmt job.
2/7/2016 16:15	2/7/2016 16:45	0.5		TOOH - ELEVATOR	TOOH_E LEV	TOOH for 8" DC's f/ 547' to 96'
2/7/2016 16:45	2/7/2016 17:15	0.5		P/U BHA	PU_BHA	Swap HWDP with 8" DC's
2/7/2016 17:15	2/8/2016 02:30	9.25		DRILL	DRL	Drill 17 1/2" Surface Section F/547' to 1,924' @ 196' fph, 100% Rot, 0% Slide, full returns to surface. OGE's hands pumping from cellar to outside reserve. MW 8.35 Vis 29 pH 13.  **100% complete @ 02:30 hrs 2/8/16, 100% rot, 0% sldg. 2.4' right and 5.3' high in relation to plan #2.
2/8/2016 02:30	2/8/2016 03:00	0.5		CIRCULATE	CIRC	Circulate (2) hi-vis sweep around with 5,501 strokes, 754 gpm, 100 rpm, 1100 spp while reciprocating DP. Hole unloaded after 1st sweep around, nothing seen at 2nd sweep around.
2/8/2016 03:00	2/8/2016 04:00	1		CIRCULATE	CIRC	Spot 320 bbls of 8.6 low fluid loss pill (added roughly 5 ppb starch) outside bit prior to TOOH to run casing.
2/8/2016 04:00	2/8/2016 06:00	2		TOOH - ELEVATOR	TOOH_E LEV	TOOH on elevators f/1,924' to BHA Rack back HWDP & DC's.  Overpulls seen: No over pull

Report #: 2 Daily Operation: 2/8/2016 06:00 - 2/9/2016 00:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 037567
Days From Spud (days) 1	Days on Location (days) 2	End Depth (ftKB) 1,924.0
		End Depth (TVD) (ftKB) 1,924.0
		Dens Last Mud (lb/gal) 8.40
		Rig PATTERSON - UTI, 802

#### Operations Summary

RU & Run 13-3/8" Csg, Cmt, Weld head.Release Rig 2/8/16 (00:00)

#### Remarks

No Accidents or Spills.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/8/2016 06:00	2/8/2016 06:30	0.5		L/D BHA	L/D BHA	Remove bit from rig floor. Clean & organize rig floor.  ** Bit Grade: 0 /1/NO/A/X/0/NO/TD
2/8/2016 06:30	2/8/2016 07:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Service Rig: Lubricate from the crown to the ground.  ** Stage Csg tools & equipment.
2/8/2016 07:00	2/8/2016 07:15	0.25		SAFETY	SFTY	PJSM w/ Pipe Pros, Patt & PNR over RU, PU & running casing tools
2/8/2016 07:15	2/8/2016 07:45	0.5		RIG UP	RU	RU all csg tools & equipment.
2/8/2016 07:45	2/8/2016 08:45	1		RUN CSG W/O WASH	CSG_W/OWASH	PU & MU 1 jt shoe track, not able to make up float collar.
2/8/2016 08:45	2/8/2016 11:30	2.75		PULL CSG	PULL_CS G	Float collar not making up properly, check threads on jt in shoe track. Cross threaded half way down collar box end. Break FC free & shoe free, lay down Csg jt. Pick up Jt 54 in it's place. Same issues with Jt 54, clean threads off FC, milled threads half way down pin before getting to good threads. Checked backup Antelope Foat Collar & Float collar for new well, same results. Running Weatherford FC in it's place.
2/8/2016 11:30	2/8/2016 14:30	3		RUN CSG W/O WASH	CSG_W/OWASH	PU & MU 1 jt shoe track, pick up additional jt. Test float equipment - Good. RIH 13 3/8" 54.5# J-55 BTC casing from 89.16' to 1,924'. M/U to base of Triangle, avg TQ ~ 9,000 ft lbs.  **Thread lock all threads in shoe track + casing jt above FC.  ** Shoe: 1,922' ** Float Collar: 1,877" ** Bow spring Centralizers run on mid jt of shoe track, 5' above FC, & then 1 every 4th jt to 200' below surface for a total of 12.
2/8/2016 14:30	2/8/2016 16:00	1.5		CIRCULATE	CIRC	Circulate w/ CRT while rigging PipePro's casing tools & equipment down. Circulate w/ 7 bpm (294 gpm), 138 spp.  ** Rig up Cementers & iron to rig floor.
2/8/2016 16:00	2/8/2016 16:15	0.25		SAFETY	SFTY	PJSM with Patterson Rig crew, Schlumberger Cementers, Mud engineer & PNR Rep over Surface Cementing Operations.
2/8/2016 16:15	2/8/2016 19:30	3.25		CEMENT	CMT	Cement surface casing as follows: Test lines to 3,500psi; Pump 50 bbls Spacer HO; Pump 396 bbls lead @ 13 ppg Yield 1.66 ft³; Pump 111 bbls tail @ 13.6 ppg Yield 1.66 ft³; Displace With 286 BBLs H2O; Bumped plug @ 18:53 hrs on 2/8/16; Last pumping pressure 1,260 psi (500 over); Floats held; Bled back 2 bbls. Full returns throughout cement job.  ** See Cementing details under Cement Section in report.
2/8/2016 19:30	2/8/2016 20:30	1		RIG DOWN	RD	Rig down cementing head & iron, casing slips & bail extensions. Flush through cellar pumps & remove / rig down cellar pumps from cellar.
2/8/2016 20:30	2/8/2016 20:45	0.25		SAFETY	SFTY	PJSM with Patt, Seaboard, welder & PNR over wellhead installation.
2/8/2016 20:45	2/8/2016 21:15	0.5		WELLHEAD	WH	Rough cut on 13-3/8" casing & LD same. Final cut casing and dress out same.  ***Safe Work, Confined Space & Hot Work Permits in Place.***
2/8/2016 21:15	2/8/2016 23:00	1.75		WELLHEAD	WH	Set well head & align w/subs & level same, PNR witness.  Conductor cut 63" below GL. Casing cut 51.25" below GL. Top of Wellhead 18" below GL.  Pre-heat wellhead to 300°F, confirm w/ temp stick, weld same.
2/8/2016 23:00	2/9/2016 00:00	1		WELLHEAD	WH	Allow weld to cool as per well head tech. Test weld to 790 psi and hold for 5 mins, Good Test.  ** Install abandonment cap.  ** Released rig f/University 7-43 28H @ 00:00 hrs on 2/9/16..

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Report #: 3 Daily Operation: 2/16/2016 12:00 - 2/17/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 037567
Days From Spud (days) 10	Days on Location (days) 3	End Depth (ftKB) 2,513.0	End Depth (TVD) (ftKB) 2,512.8	Dens Last Mud (lb/gal) 9.90	Rig PATTERSON - UTI, 802

### Operations Summary

Walk Rig to 28H, N/U BOP, Test BOP & Casing, Install Wear Bushing, P/U BHA, TIH, Drill Cement & Float Equipment, Drill 12 1/4" Intermediate

### Remarks

No Accidents or Spills

NPT for Feb:

Patterson: Past 24 hrs - 0, Total - 8.75

3rd Party: Past 24 hrs - 0, Total - 1.75

Drl'd Int 1924' to 2513' (589' @ 112 fph); 14% complete, 95% rot, 5% sldg. 3' right and 8' high in relation to plan #2. MW-9.7 w/33 vis. CBHT - 91°F.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/16/2016 12:00	2/16/2016 12:15	0.25		SAFETY	SFTY	PJSM w/ Patterson rig crew, TP, Drilltek rep & PNR CM over walking rig over to next well. Assigned roles to personel & discussed plan.
2/16/2016 12:15	2/16/2016 13:30	1.25		SKID	SKID	Walk rig F/University 7-43 29H to the University 7-43 28H adjusting matting boards, setting HPU skid and center over hole.
2/16/2016 13:30	2/16/2016 13:45	0.25		SAFETY	SFTY	PJSM with Edge Nipple up crew, Patterson rig crew & PNR CM over N/U BOPE.
2/16/2016 13:45	2/16/2016 16:15	2.5		N/U BOPE	NU_BOP E	Set Test plug in wellhead, N/U BOPE. Torque up bolts, Install turn buckles & center, MU flow line. Walk cat walk in place. Hook up mud, air & commuciation lines.  **Confined space permit in place**
2/16/2016 16:15	2/16/2016 16:30	0.25		SAFETY	SFTY	PJSM with Patterson rig crew, Edge Specialty Testers & PNR CM on testing BOPE.
2/16/2016 16:30	2/16/2016 18:00	1.5		TEST BOPE	TEST_B OPE	Shell Test BOPE, HCR valve, Kill line valve, Blind rams, 250 low/5,000 high/5 min. Test mud lines back to pumps 250 low/4,500 high/5 min. Good Test.
2/16/2016 18:00	2/16/2016 18:45	0.75		CSG TEST	CSG_TE ST	Test 13-3/8" Casing to 1,000 psi for 30 min w/ testers - Good test.
2/16/2016 18:45	2/16/2016 19:15	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig Service, Grease TDS, ST-80, Crown & Blocks
2/16/2016 19:15	2/16/2016 20:00	0.75		WELLHEAD	WH	Install long wear bushing, Perform accumulator drawdown test.  **Confined Space Permit in Place
2/16/2016 20:00	2/16/2016 20:15	0.25		SAFETY	SFTY	PJSM W/Patterson Rig Crew, Leam Directional & PNR Co. Man on BHA Handling
2/16/2016 20:15	2/16/2016 22:00	1.75		P/U BHA	PU_BHA	Directional work: Pick up directional tools, function test survey tool (EM), scribe mud motor, M/U Bit, TIH w/ BHA.
2/16/2016 22:00	2/17/2016 00:00	2		TIH - ELEVATOR	TIH_ELE V	TIH w/2 stds 8" DC & PU 2 stds 6.5" DC. Run 1 std of HWDP, PU Jars, 5 stds. & double of HWDP followed by DP. Installed rotating head @ 1,388'  ** Tagged Cmt @ 1,868'
2/17/2016 00:00	2/17/2016 00:45	0.75		DRILL OUT	DRL_OU T	Drill cmt. & flt. equip. F/1,868' - 1,924'  Float Collar/Plug @ 1,877' Top of Shoe @ 1,922'
2/17/2016 00:45	2/17/2016 06:00	5.25		DRILL	DRL	Drl'd Int 1,924' to 2,513', 589' @ 112 fph; 95% rot @ 112.8 fph, 5% slide @ 100 fph MW - 9.7 w/33 vis. Full returns to surface

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Report #: 4 Daily Operation: 2/17/2016 06:00 - 2/18/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 037567
Days From Spud (days) 11	Days on Location (days) 4	End Depth (ftKB) 4,326.0	End Depth (TVD) (ftKB) 4,291.6	Dens Last Mud (lb/gal) 10.30	Rig PATTERSON - UTI, 802

### Operations Summary

Drill 12 1/4" Intermediate F/2,513' - 4,326'

### Remarks

No Accidents or Spills

NPT for Feb:

Patterson: Past 24 hrs - 0, Total - 8.75

3rd Party: Past 24 hrs - 0, Total - 1.75

Drl Int 2,513' to 4,326' (1,813' @ 81 fph); 58% complete, 86% rot, 14% sldg. 2.4' right and 55.6' high in relation to plan #2. MW-10.25 w/ 39 vis. CBHT-115°F.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/17/2016 06:00	2/17/2016 10:30	4.5		DRILL	DRL	Drl Int 2,513' to 3,076' (563' @ 125 fph); 28% complete, 72% rot, 28% sldg. MW - 10.3 w/ 37 vis. Full returns to surface.  ** SPR's @ 2,988'
2/17/2016 10:30	2/17/2016 11:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Service Rig: Lubricate from the crown to the ground.  ** Dump brine from pits & fill with Polymer mud.
2/17/2016 11:00	2/17/2016 11:15	0.25		DRILL	DRL	Drl Int 3,076' to 3,086' (10' @ 40 fph); 28% complete, 100% rot, 0% sldg. MW - 10.3 w/37 vis. Full returns to surface.  ** Displace hole with polymer mud.
2/17/2016 11:15	2/17/2016 11:45	0.5		CIRCULATE	CIRC	Circulate while finishing displacement.  Displacement Complete @ 3,086'.  Actual displacement = 468 bbl Total calculated displacement = 423 bbl Excess displacement = 45 bbl Calc. in gauge open hole annulus = 128 bbl  45 bbl/128 bbl = 35% washout of open hole annulus.
2/17/2016 11:45	2/18/2016 06:00	18.2 5		DRILL	DRL	Drl Int 3,086' to 4,326' (1,240' @ 67.9 fph); 58% complete, 91% rot @ 71.7 fph, 9% sldg @ 44 fph. MW - 10.25 w/39 vis. Full returns to surface.  ** Drilled w/ reduced parameters to keep from shakers blinding over until shaker screens were changed out.  ** SPR's @ 3,357' & 4,201'.

Report #: 5 Daily Operation: 2/18/2016 06:00 - 2/19/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 037567
Days From Spud (days) 12	Days on Location (days) 5	End Depth (ftKB) 5,699.0	End Depth (TVD) (ftKB) 5,628.6	Dens Last Mud (lb/gal) 10.20	Rig PATTERSON - UTI, 802

### Operations Summary

Drill 12 1/4" Intermediate F/4,326' - 5,699'

### Remarks

No Accidents or Spills

NPT for Feb:

Patterson: Past 24 hrs - 0, Total - 8.75

3rd Party: Past 24 hrs - 0, Total - 1.75

Drl Int 4326' to 5699' (1373' @ 58 fph); 90% complete, 86% rot, 14% sldg. 2.1' left and 62.5' high in relation to plan #2a. MW-10.3 w/ 40 vis. CBHT-124°F.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/18/2016 06:00	2/18/2016 17:30	11.5		DRILL	DRL	Drill int F/4,326' T/4,950', 624' @ 54 fph, 72% complete. 76% Rot @ 65 fph 24% Sldg @ 22 fph MW: 10.3 w/ a 38 vis, full returns.
2/18/2016 17:30	2/18/2016 18:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Planned rig service TDS, DW & blocks

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/18/2016 18:00	2/19/2016 06:00	12		DRILL	DRL	Drill int F/4,950' T/5,699, 749 @ 62.4 fph, 90% complete. 99% Rot @ 64.4 fph 1% Sldg @ 20 fph MW: 10.3 w/ a 40 vis, full returns.

Report #: 6 Daily Operation: 2/19/2016 06:00 - 2/20/2016 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 037567
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Days From Spud (days) 13	Days on Location (days) 6	End Depth (ftKB) 6,100.0	End Depth (TVD) (ftKB) 6,024.8	Dens Last Mud (lb/gal) 10.35	Rig PATTERSON - UTI, 802
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#### Operations Summary

Drill 12 1/4" Intermediate TD 6,100', Circ., TOH, L/D BHA, PWB, R/U & Run 9 5/8" T/4,530'

#### Remarks

No Accidents or Spills

NPT for Feb:

Patterson: Past 24 hrs - 0, Total - 8.75

3rd Party: Past 24 hrs - 0, Total - 1.75

Intermediate 100% complete @ 13:45 hrs 02/19/16, 2.5' right and 39' high in relation to plan #2a.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/19/2016 06:00	2/19/2016 09:45	3.75		DRILL	DRL	Drill int F/5,699' T/5866', 167' @ 51.4 fph, 83% complete. 94% Rot @ 62.8 fph 6% Sldg @ 13 fph MW: 10.3 w/ a 40 vis, full returns
2/19/2016 09:45	2/19/2016 10:15	0.5		PLANNED RIG SERVICE	RIG_SVC	Planned rig service TDS, DW & blocks
2/19/2016 10:15	2/19/2016 13:45	3.5		DRILL	DRL	Drill int F/5,866' T/6,100', 234' @ 62.4 fph, 100% complete. 91% Rot @ 77.6 fph 9% Sldg @ 13.3 fph MW: 10.3 w/ a 40 vis, full returns
2/19/2016 13:45	2/19/2016 16:00	2.25		CIRCULATE	CIRC	Circulating @ GPM:732, SPP:1,700 RPM:80, MMRPM:117, Full Returns. Pump (2) 40 bbl hi-vis. (10 sks nut plug added for marker) sweep around. 1st sweep loaded up shakers, 2nd sweep had minimal cuttings at shakers, circulated until shakers were clean. Full Returns. Mud: YP - 13, Filtrate - 12.  MW In/Out 10.35, Vis 39, PH 9.5  Actual sweep to surface = 881 bbls Total calculated barrels = 842 bbls Excess barrels = 39 bbls Calculated in gauge open hole = 493 bbls  39 / 493 = 8% washout of open hole annulus.
2/19/2016 16:00	2/19/2016 16:15	0.25		FLOW CHECK	FLOW_C HK	Flow check on trip tanks w/ PNR witness. Well static, pump slug
2/19/2016 16:15	2/19/2016 19:45	3.5		TOOH - ELEVATOR	TOOH_E LEV	TOOH, racking back DP, tight spot seen from 5353' to 5085'. Max overpull 75k, no drag seen when slacking off, worked through spots multiple times till no overpull was seen. Continue TOOH, hole slick and taking proper fill from trip tanks.  **Retrieved corrosion ring from top of 3rd stand of DP**  **Pulled rotating head @ HWDP**  Rack back HWDP, jars & all DC's
2/19/2016 19:45	2/19/2016 20:00	0.25		SAFETY	SFTY	PJSM w/ Patt, PNR & Leam over LD directional tools
2/19/2016 20:00	2/19/2016 21:15	1.25		L/D BHA	L/D BHA	Breakout & L/D BHA, L/D MWD, drain MM & L/D same  ** Bit Grade: 2/1/BT/N/X/1/CT/TD **

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/19/2016 21:15	2/19/2016 22:00	0.75		WELLHEAD	WH	PJSM over wear bushing operations. PU single jt DP w/ wear bushing retrieval tool already MU, remove lock down pins & pull wear bushing. Remove all tools off floor, straighten up & prep floor to RU csg tools.  **Confined Space Permit in Place
2/19/2016 22:00	2/19/2016 22:15	0.25		SAFETY	SFTY	PJSM w/ Patt, PNR, Franks over RU & running casing
2/19/2016 22:15	2/20/2016 00:00	1.75		RIG UP	RU	RU casing tools & equipment
2/20/2016 00:00	2/20/2016 00:30	0.5		RUN CSG W/O WASH	CSG_W/OWASH	Note: All csg components are 9 5/8" L-80 BTC, L-80 PU & MU 2 jt shoe track - Single valve down jet float shoe - 2 jts of csg - Float collar Thread locking all connections including top of FC PU single csg jt to test floats - Good.  ** Avg ID of 10 jts - 8.9063" ** Casing Collars OD - 10.6875" ** Casing Elevators ID - 9.875"
2/20/2016 00:30	2/20/2016 06:00	5.5		RUN CSG W/O WASH	CSG_W/OWASH	RIH w/ csg F/141' to 4,530' Avg. M/U tq to base of triangle 8,000 ft/lbs. Fill csg every 20 - 30 jts. Circ B/U @ surface shoe (1,924') Monitoring returns to pits, hole displacing properly.

Report #: 7 Daily Operation: 2/20/2016 06:00 - 2/20/2016 18:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 037567
Days From Spud (days) 13	Days on Location (days) 6	End Depth (ftKB) 6,100.0	End Depth (TVD) (ftKB) 6,024.8	Dens Last Mud (lb/gal) 10.35	Rig PATTERSON - UTI, 802	

#### Operations Summary

Run 9 5/8" Casing, Circ & Cement Casing, N/D BOP, Install Abandonment Cap

#### Remarks

No Accidents or Spills

NPT for Feb:

Patterson: Past 24 hrs - 0, Total - 8.75

3rd Party: Past 24 hrs - 0, Total - 1.75

Intermediate 100% complete @ 13:45 hrs 02/19/16, 2.5' right and 39' high in relation to plan #2a.

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/20/2016 06:00	2/20/2016 07:30	1.5		RUN CSG W/O WASH	CSG_W/OWASH	RIH w/csg F/4,530' to 6,050' Avg. M/U tq to base of triangle 8,000 ft/lbs. Fill & Break Circ @ Monitoring returns to pits, hole displacing properly.
2/20/2016 07:30	2/20/2016 08:00	0.5		RUN CSG W/O WASH	CSG_W/OWASH	P/U & M/U Hanger and Landing Jt.
2/20/2016 08:00	2/20/2016 09:00	1		RUN CSG WITH WASH	CSG_W WASH	Fill pipe & establish good returns @ 5 bpm w/305 psi. P/U & S/O was consistent since last fill up @ 265k/170k Able to work full jt. up, but unable to pass 6,060', slacked off to 90k string wt, unable to get SPP to increase to attempt to wash.
2/20/2016 09:00	2/20/2016 10:00	1		RUN CSG W/O WASH	CSG_W/OWASH	P/U, backout & L/D landing jt & jt #137.  P/U & M/U Hanger and landing joint, land casing in wellhead W/No issues, SO-215k, W/Seaboard Rep. & PNR Rep on rig floor.  **Shoe Depth: 6,040' **Float Collar Depth: 5,945'
2/20/2016 10:00	2/20/2016 11:00	1		CIRCULATE	CIRC	Circulate casing @ 5 bbl/min 110 psi through CRT, full returns to surface, while rigging down casing crew & rigging up cements.  Load Top Plug in Head W/Tattletail. Witnessed by PNR Rep.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
2/20/2016 11:00	2/20/2016 11:15	0.25		SAFETY	SFTY	PJSM on Cementing Operations W/PNR Rep., Patterson Rig Crew, MI Swaco and Schlumberger Cement Crew.  L/D CRT, M/U Cement Head & Iron
2/20/2016 11:15	2/20/2016 14:30	3.25		CEMENT	CMT	Pump cement as follows:  Drop Bottom Plug @ 11:30 hrs, 2/20/2016, PNR Rep Witnessed  Pump 20 bbls to flush lines to reserve;  PSI test to 3,500 psi;  Pump 70 bbls visc water @ 8.3 ppg; Pump 70 bbls MPE @ 10.6 ppg; Pump 262 bbls (670 sks) Lead cement mixed @ 11.5 ppg, Yield 2.19 ft³/sk W/1.5 lb/bbl CemNET; Pump 76 bbls (400 sks) Tail Cement mixed @ 16.4 ppg Yield 1.07 ft³/sk.  Dropped Top Plug @ 13:16 hrs, 2/20/2016, PNR Rep witnessed.  Displace with 451 bbls 8.3 ppg H2O.  Lift pressures on displacement: 50 bbl, 6.9 bpm, 217 psi., 100 bbl, 6.8 bpm, 206 psi., 150 bbl, 7.9 bpm, 270 psi., 200 bbl, 7.4 bpm, 331 psi., 250 bbl, 6.6 bpm, 392 psi., 300 bbl, 6.6 bpm, 503 psi. 350 bbl, 6.6 bpm, 678 psi., 400 bbl, 6.5 bpm, 1,076 psi., 450 bbl, 3.5 bpm, 1,240 psi. Final lift 1,240 psi.  Bumped plug @ 14:27 hrs, 2/20/2016; with 1,721 psi, 481 psi over final lift pressure of 1,240 psi., held 5 minutes. Bled back 3 bbls, Floats Held. Full returns throughout job
2/20/2016 14:30	2/20/2016 15:00	0.5		RIG DOWN	RD	Flush through BOP stack & Flowlines, R/D Cementers
2/20/2016 15:00	2/20/2016 16:00	1		WELLHEAD	WH	Remove landing joint, M/U & set pack off in well head, run in lock down pins, energize pack off seals and test pack off to 5000 psi for 15 min good test, witnessed by PNR rep. L/D Landing Joint.  **Safe Work Permits: Confined space entry permit for cellar.
2/20/2016 16:00	2/20/2016 16:15	0.25		SAFETY	SFTY	PJSM W/Edge, PNR Rep. & Patterson Rig Crew on N/D Operations & Abandonment cap installation
2/20/2016 16:15	2/20/2016 17:30	1.25		N/D BOPE	ND_BOP E	N/D BOP's, break bolts on BOPs, Attach BOP Wrangler to stack R/D turn buckles, break flow line, break DSA & Spool. Lift stack.  ** Confined space entry permit in place.
2/20/2016 17:30	2/20/2016 18:00	0.5		WELLHEAD	WH	Install abandonment cap & test to 500 psi for 15 min - Good.  *** Released rig f/University 7-43 #28H @ 18:00 hrs on 02/20/16.

Report #: 8 Daily Operation: 3/17/2016 00:00 - 3/17/2016 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 037567
Days From Spud (days) 39	Days on Location (days) 6	End Depth (ftKB) 6,100.0
	End Depth (TVD) (ftKB) 6,024.8	Dens Last Mud (lb/gal) 8.60
		Rig PATTERSON - UTI, 802

#### Operations Summary

Walk From University 7-43 #27H, N/U BOP, Shell Test BOP

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 0

3rd Party: Past 24 hrs - 0, Total - 163

Intermediate 100% complete @ 13:45 hrs 02/19/16, 2.5' right and 39' high in relation to plan #2a.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/17/2016 00:00	3/17/2016 00:15	0.25		SAFETY	SFTY	PJSM w/ Patterson rig crew, TP, Drilltek rep & PNR CM over walking rig over to next well. Assigned roles to personnel & discussed plan.
3/17/2016 00:15	3/17/2016 02:30	2.25		SKID	SKID	Check Pressure & Remove Abandonment Cap, Set Test plug in wellhead on University 7-43 #28H, Walk rig F/University 7-43 #27H to the University 7-43 #28H adjusting matting boards, remove HPU skid and center over hole.
3/17/2016 02:30	3/17/2016 02:45	0.25		SAFETY	SFTY	PJSM with Edge Nipple up crew, Patterson rig crew & PNR CM over N/U & Test BOPE.
3/17/2016 02:45	3/17/2016 05:00	2.25		N/U BOPE	NU_BOP E	Set Stack on wellhead, N/U BOPE. Torque up bolts, Install turn buckles & center, M/U flow line. Walk cat walk in place. Hook up mud, air & communication lines.  **Confined space permit in place**
3/17/2016 05:00	3/17/2016 06:00	1		TEST BOPE	TEST_B OPE	Shell Test BOPE, HCR valve, Kill line valve, Blind rams, 250 low/5,000 high/5 min. Test mud lines back to pumps 250 low/5,00 high/5 min.

Report #: 9 Daily Operation: 3/17/2016 06:00 - 3/18/2016 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 037567
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Days From Spud (days) 40	Days on Location (days) 7	End Depth (ftKB) 6,990.0	End Depth (TVD) (ftKB) 6,913.5	Dens Last Mud (lb/gal) 8.40	Rig PATTERSON - UTI, 802
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#### Operations Summary

Test BOP, IWB, Rig Serv, P/U BHA, TIH, Drill Out, FIT, Drill 8 3/4" Production Vertical

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 0

3rd Party: Past 24 hrs - 0, Total - 163

Last Survey @ 6,767', Inc., 0.7° Azi., 256.2°, Temp 124°F, 3.6' Above & 3.6' Right of Plan 3 Line, Production Vertical 31% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/17/2016 06:00	3/17/2016 07:00	1		TEST BOPE	TEST_B OPE	Finish shell test: HCR valve, Kill line valve, Blind rams, 250/5,000/5 min. Mud lines back to pumps 250/5,000/5 min.
3/17/2016 07:00	3/17/2016 07:45	0.75		SKID	SKID	Install mousehole, adjust stack w/ turnbuckles, center catwalk
3/17/2016 07:45	3/17/2016 09:30	1.75		PLANNED RIG SERVICE	RIG_SVC	Change out saver sub & backup dies on top drive
3/17/2016 09:30	3/17/2016 09:45	0.25		SAFETY	SFTY	PJSM over proper well head procedures on installing & removing wear bushing pins, ensuring backup wrench is utilized  **Confined space permit in place**
3/17/2016 09:45	3/17/2016 10:30	0.75		WELLHEAD	WH	Remove test plug f/ wellhead & install short wear bushing  **Patt RM & PNR CM witness**
3/17/2016 10:30	3/17/2016 11:00	0.5		SAFETY	SFTY	PJSM with Patt, Leam & PNR - Proper BHA handling
3/17/2016 11:00	3/17/2016 13:00	2		P/U BHA	PU_BHA	PU, MU, scribe & test directional BHA, MU bit & prep to TIH
3/17/2016 13:00	3/17/2016 14:30	1.5		TIH - ELEVATOR	TIH_ELE V	TIH w/ 7 stds HWDP & 20 stds DP from derrick, fill pipe w/ FW
3/17/2016 14:30	3/17/2016 15:00	0.5		N/U BOPE	NU_BOP E	Install new rotating head rubber
3/17/2016 15:00	3/17/2016 15:30	0.5		PLANNED RIG SERVICE	RIG_SVC	Planned rig service
3/17/2016 15:30	3/17/2016 17:15	1.75		TIH - ELEVATOR	TIH_ELE V	Finish TIH w/ DP from derrick, fill pipe w/ FW, Tag @ 5,927'
3/17/2016 17:15	3/17/2016 17:30	0.25		SAFETY	SFTY	PJSM w/ Patt, Mi-Swaco & PNR - Displacing to OBM while drilling shoe track



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/17/2016 17:30	3/17/2016 20:15	2.75		DRILL OUT	DRL_OUT	Tag Cement @ 5,927', Drill Cement, Flt Equip & 10' new formation F/6,100' - 6,110', 10k wob, 250 diff, 400 fpm, 1200 psi, 30 rpm, 3k tq.  Float collar @ 5,945' Shoe @ 6,045'
3/17/2016 20:15	3/17/2016 21:15	1		CIRCULATE	CIRC	Circ & Condition mud @ 545 gpm, 1,785 psi, full returns to surface.  **Set back 1 stand (pull into shoe prior to FIT)
3/17/2016 21:15	3/17/2016 21:45	0.5		FIT / LOT	FIT/LOT	FIT Test: @ 6,110 MD, 6,035 TVD 8.4 MW + 470 psi = 9.9 EMW
3/17/2016 21:45	3/18/2016 06:00	8.25		DRILL	DRL	Drill prod vert F/6,110' T/6,990' @ 107 fph, 31% complete. 85% Rot @ 114 fph 15% Sldg @ 52 fph MW: 8.5 w/ a 72 vis, full returns.  Lithology: 6130 - 60% SD, 40% SH 6160 - 50% SD, 50% SH 6190 - 80% SD, 20% SH 6250 - 60% SD, 40% SH 6310 - 80% SD, 20% SH 6370 - 70% SD, 30% SH 6430 - 50% SD, 50% SH 6520 - 60% SH, 40% SD 6610 - 40% SH, 40% SD, 20% LS

Report #: 10 Daily Operation: 3/18/2016 06:00 - 3/19/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 037567
Days From Spud (days) 41	Days on Location (days) 8	End Depth (ftKB) 8,950.0	End Depth (TVD) (ftKB) 8,873.2	Dens Last Mud (lb/gal) 8.20	Rig PATTERSON - UTI, 802	

#### Operations Summary

Drill 8 3/4" Production Vertical to TD, Circ., TOOH

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 0

3rd Party: Past 24 hrs - 0, Total - 163

Last Survey @ 8,884', Inc., 0.90° Azi., 174.1°, Temp 139°F, 8.2' Ahead & 1.7' Right of Plan 3 Line, Production Vertical 100% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/18/2016 06:00	3/18/2016 14:30	8.5		DRILL	DRL	Drill prod vert F/6990' T/7957' @ 114 fph, 65% complete. 94% Rot @ 124 fph 6% Sldg @ 34 fph MW: 8.4 w/ a 68 vis, full returns.  SPR @ 7211'  Lithology: 6850 - 50% SD, 40% SH, 10% LS 6910 - 70% LS, 20% SH, 10% SD 7120 - 70% LS, 30% SH 7450 - 60% SH, 40% LS  Mudlogger Tops: CLEARFORK @ 6890' / 6813' TVD (3' low of prog)
3/18/2016 14:30	3/18/2016 15:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig service **Tech on floor checking ODS traction motor on TD, slight squeak heard every 10-15 rotations**

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/18/2016 15:00	3/19/2016 02:30	11.5		DRILL	DRL	Drill F/7,957' T/8,950' @ 86 fph, 100% complete. 91% Rot @ 105 fph 9% Sldg @ 40 fph MW: 8.2 w/ a 67 vis, full returns.  Lithology: 7990 - 70% SH, 30% LS 8170 - 80% SH, 20% LS 8260 - 80% SH, 20% LS 8350 - 90% SH, 10% LS 8440 - 80% SH, 20% LS 8500 - 60% SH, 20% LS, 20% SD 8560 - 50% SD, 40% SH, 10% LS 8620 - 50% SH, 30% SD, 20% LS 8680 - 60% SD, 30% SH, 10% LS 8740 - 50% SD, 40% SH, 10% LS 8800 - 70% SH, 30% SD 8860 - 50% SH, 50% SD 8890 - 60% SH, 40% LS 8920 - 70% SH, 30% LS 8950 - 60% SH, 40% LS  Mudlogger Tops: SPBY U A1 @ 8510' / 8433' TVD (5' high of prog) SPBY M A1 @ 8810' / 8733' TVD (18' below prog)
3/19/2016 02:30	3/19/2016 03:45	1.25		CIRCULATE	CIRC	Circulate & Reciprocate, 2 X B/U, (9,000 Strokes) @ 570 GPM, 2,150 PSI, Circulated hole till shakers cleaned up. Full returns.
3/19/2016 03:45	3/19/2016 04:00	0.25		FLOW CHECK	FLOW_C HK	Check for flow @ trip tanks, well static, pump slug.
3/19/2016 04:00	3/19/2016 06:00	2		TOOH - ELEVATOR	TOOH_E LEV	TOOH F/Curve assembly F/8,950 - 4,398', No hole issues seen, Hole taking proper fill from trip tanks.  **Pull Rotating Head & Install Trip Nipple @ 5,990'

Report #: 11 Daily Operation: 3/19/2016 06:00 - 3/20/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 037567
Days From Spud (days) 42	Days on Location (days) 9	End Depth (ftKB) 9,006.0	End Depth (TVD) (ftKB) 8,929.0	Dens Last Mud (lb/gal) 8.40	Rig PATTERSON - UTI, 802	

#### Operations Summary

TOOH, Slip & Cut, Rig Repair, C/O BHA, TIH, Wash, Drill 8 1/2" Production Curve

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 11.5, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 163

Last Survey @ 8,884', Inc., 0.90° Azi., 174.1°, Temp 139°F, 8.2' Ahead & 1.7' Right of Plan 3 Line, Production Curve 6% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/19/2016 06:00	3/19/2016 08:15	2.25		TOOH - ELEVATOR	TOOH_E LEV	TOOH to 1st std of DP @ 836'. M/U TIW valve on same & secure well before rig repairs
3/19/2016 08:15	3/19/2016 08:30	0.25		SAFETY	SFTY	Straighten up & clean off OBM from rig floor Prep for slip & cut and rig repairs
3/19/2016 08:30	3/19/2016 10:00	1.5		SLIP & CUT	SLIP_CU T	Slip & cut 110'
3/19/2016 10:00	3/19/2016 10:15	0.25		SAFETY	SFTY	PJSM w/ Patt, 3rd party TD techs & PNR - Swapping out traction motors
3/19/2016 10:15	3/19/2016 21:30	11.2 5		RIG REPAIR	RIG_RPR	Changing out DS traction motor Monitoring well on Pason, SICP=0 **All components properly LO/TO**
3/19/2016 21:30	3/19/2016 22:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig service, Grease Swivel Bail Pins & Swivel Packing, Check all Oil Levels, Double checked Top Drive to ensure all tools were removed and guards in place.
3/19/2016 22:00	3/19/2016 22:15	0.25		SAFETY	SFTY	PJSM w/ Patt, PNR & Leam - BHA Handling

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/19/2016 22:15	3/19/2016 23:00	0.75		L/D BHA	L/D BHA	Rack back HWDP, L/D top NMDC, Retrieve MWD, Drain Motor, Break Bit & L/D Motor & Stab.  **Bit Graded: 1-3-WT-S-X-1-CT-TD **Kick pad on motor flat, cal. 7" OD when run in hole, 6-11/16" OD when laid down.
3/19/2016 23:00	3/20/2016 00:30	1.5		P/U BHA	PU_BHA	M/U Curve BHA, P/U Float Sub, 6 3/4" 2.25° Fixed Slick 7/8 - 5.0 Motor, Scribe & Install MWD, Surface Test Motor & MWD, Test Good, M/U 8.5" MMD55DM Bit, P/U Flex NMDC.
3/20/2016 00:30	3/20/2016 04:30	4		TIH - ELEVATOR	TIH_ELEV	TIH W/Curve BHA to 8,819'. Filling every 30 stands. Hole displacing properly to trip tanks.  **Pulled Trip Nipple & Inst. Rot. Head @ 6,007'
3/20/2016 04:30	3/20/2016 05:00	0.5		TIH - NON-ELEVATOR	TIH_NON ELEV	Wash F/8,819' - 8,950', No fill, full returns to surface.
3/20/2016 05:00	3/20/2016 06:00	1		DRILL	DRL	Drill curve F/8,950' T/9,006' @ 56 fph, 6% complete. 100% Sldg @ 56 fph MW: 8.4 w/ a 58 vis, full returns.

Report #: 12 Daily Operation: 3/20/2016 06:00 - 3/21/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 037567
Days From Spud (days) 43	Days on Location (days) 10	End Depth (ftKB) 9,943.0	End Depth (TVD) (ftKB) 9,479.5	Dens Last Mud (lb/gal) 8.40	Rig PATTERSON - UTI, 802	

#### Operations Summary

Land 8 1/2" Production Curve, Circ, TOOH, C/O BHA, TIH, 6 Axis Surveys, TIH

#### Remarks

No Accidents or Spills

NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 163

Last Survey @ 9,884', Inc., 89.0° Azi., 168.48°, Temp 138°F, 20.8' Above & 0.2' Left of Plan 3 Line, Production Curve 100% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/20/2016 06:00	3/20/2016 16:15	10.2 5		DRILL	DRL	Drill curve F/9,006' T/9,849' @ 82 fph, 100% complete. 100% Sldg @ 82 fph MW: 8.4 w/ a 58 vis, full returns.  Curve landed @ 9,849' , projected 88.5* @ bit  Lithology: 9010 - 50% SH, 30% LS, 20% SD 9040 - 70% SH, 20% LS, 10% SD 9070 - 70% SH, 30% LS 9190 - 40% SD, 30% SH, 30% SD 9250 - 50% SH, 30% LS, 20% SD 9380 - 80% SH, 10% LS, 10% SD 9430 - 80% SH, 20% LS 9490 - 70% SH, 30% LS 9610 - 60% SH, 40% LS 9790 - 80% SH, 20% LS  Mudlogger Tops: SPBY L A1 @ 8991' TVD (14' low of prog) SPBY L B1 @ 9296' TVD (12' low of prog) SPBY L C1 @ 9347' TVD (15' low of prog)
3/20/2016 16:15	3/20/2016 17:15	1		DRILL	DRL	Drill lateral F/9,849' T/9,943' @ 94 fph 84% Rot @ 105 fph 16% Sldg @ 60 fph MW: 8.4 w/ a 58 vis, full returns.
3/20/2016 17:15	3/20/2016 17:30	0.25		CIRCULATE	CIRC	Circulate, Pump 2 X 30 bbl Hi-Vis Sweeps.
3/20/2016 17:30	3/20/2016 18:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Circulate while performing planned rig service

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/20/2016 18:00	3/20/2016 19:00	1		CIRCULATE	CIRC	Circulate, 1st sweep loaded shakers, 2nd sweep loaded shakers w/fines. Circulated hole till shakers cleaned up  **PJSM W/Patterson Rig Crew & PNR Rep on Tripping Out of Hole.
3/20/2016 19:00	3/20/2016 19:15	0.25		FLOW CHECK	FLOW_C HK	Check for flow @ trip tanks, well static, pump slug.
3/20/2016 19:15	3/20/2016 23:30	4.25		TOOH - ELEVATOR	TOOH_E LEV	TOOH F/9,943' T/BHA, No hole issues seen, Hole taking proper fill from trip tanks.  **Remove rotating head & install trip nipple @ 5,896'
3/20/2016 23:30	3/20/2016 23:45	0.25		SAFETY	SFTY	PJSM with Patt, Leam & PNR - Proper BHA handling
3/20/2016 23:45	3/21/2016 00:30	0.75		L/D BHA	L/D BHA	L/D Flex NMDC, Retrieve MWD, Drain Motor, Break Bit, L/D Motor & Float Sub, Replace Sleeve in UBHO Sub.  ** Bit Graded: 1/1/WT/A/X/0/NO/BHA  **Confined Space Entry Permit in Place, replacing valve in suction pit while changing BHA.
3/21/2016 00:30	3/21/2016 02:00	1.5		P/U BHA	PU_BHA	P/U 8" IBS, Float Sub & Motor, Scribe & Install MWD, Test Motor & MWD, Good Test, M/U Bit, P/U Top NMDC.
3/21/2016 02:00	3/21/2016 04:15	2.25		TIH - ELEVATOR	TIH_ELE V	TIH W/Lateral BHA to 6,206'. Filling every 30 stands. Hole displacing properly to trip tanks.  **Pulled Trip Nipple & Inst. Rot. Head @ 6,112'
3/21/2016 04:15	3/21/2016 05:30	1.25		TIH - NON-ELEVATOR	TIH_NON ELEV	Perform 6 Axis Surveys From 6,206' - 6,768'
3/21/2016 05:30	3/21/2016 06:00	0.5		TIH - ELEVATOR	TIH_ELE V	TIH W/Lateral BHA F/6,768' - 8,268'. Hole displacing properly to trip tanks.

Report #: 13 Daily Operation: 3/21/2016 06:00 - 3/22/2016 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 037567
Days From Spud (days) 44	Days on Location (days) 11	End Depth (ftKB) 12,236.0
	End Depth (TVD) (ftKB) 9,494.4	Dens Last Mud (lb/gal) 8.40
		Rig PATTERSON - UTI, 802

#### Operations Summary

TIH, Re-Log Gamma, Drill 8 1/2" Production Lateral

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 163

Last Survey @ 12,041', Inc., 89.8° Azi., 166.36°, Temp 153°F, Gamma 115, 4.8' Above & 1.4' Left of Plan 3 Line, Production Lateral 23% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/21/2016 06:00	3/21/2016 06:45	0.75		TIH - ELEVATOR	TIH_ELE V	TIH W/Lateral BHA F/8,268' to 9,861' Hole displacing properly to trip tanks.
3/21/2016 06:45	3/21/2016 07:30	0.75		TIH - NON-ELEVATOR	TIH_NON ELEV	Re-log gamma F/9,861' to 9,943'

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/21/2016 07:30	3/21/2016 17:00	9.5		DRILL	DRL	Drill lateral F/9,943' T/10,985' @ 110 fph, 11% complete. 74% Rot @ 139 fph 26% Sldg @ 47 fph MW: 8.2+ w/ 55 vis, full returns. 10 bbl LCM sweeps every other std.  ** 11 ppb sweeps - 5.5 ppb ea Mica & Hubercarb 200 **  Lithology: 10000 - 90% SH, 10% LS 10150 - 80% SH, 20% LS 10240 - 70% SH, 30% LS 10390 - 80% SH, 20% LS 10480 - 60% SH, 40% LS 10540 - 70% SH, 30% LS 10750 - 90% SH, 10% LS  ** SPR's @ 9953 & 10,891 **
3/21/2016 17:00	3/21/2016 17:30	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig service - Lubricate TDS & blocks
3/21/2016 17:30	3/22/2016 06:00	12.5		DRILL	DRL	Drill lateral F/10,985' T/12,236' @ 100 fph, 23% complete. 80% Rot @ 113 fph 20% Sldg @ 43 fph MW: 8.3 w/ a 59 vis, full returns. 10 bbl LCM sweeps every other std.  ** 11 ppb sweeps - 5.5 ppb ea Mica & Hubercarb 200 **  Lithology: 11020 - 70% SH, 30% LS 11070 - 80% SH, 20% LS 11230 - 90% SH, 10% LS 11290 - 80% SH, 20% LS 11350 - 70% SH, 30% LS 11410 - 60% SH, 40% LS 11500 - 80% SH, 20% LS 11680 - 80% SH, 20% LS 11860 - 90% SH, 10% LS 11920 - 80% SH, 20% LS  ** SPR's @ 11,454' & 12,111' **

Report #: 14 Daily Operation: 3/22/2016 06:00 - 3/23/2016 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 037567
Days From Spud (days) 45	Days on Location (days) 12	End Depth (ftKB) 14,185.0
	End Depth (TVD) (ftKB) 9,507.3	Dens Last Mud (lb/gal) 8.20
		Rig PATTERSON - UTI, 802

#### Operations Summary

Drill 8 1/2" Production Lateral

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 163

Last Survey @ 14,085', Inc., 88.1° Azi., 168.76°, Temp 161°F, Gamma 144, 11.1' Below & 16.6' Left of Plan 3 Line, Production Lateral 42% Complete

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/22/2016 06:00	3/22/2016 17:00	11		DRILL	DRL	Drill lateral F/12,236' T/13,621' @ 126 fph, 36% complete. 75% Rot @ 173 fph 25% Sldg @ 42 fph MW: 8.3 w/ 59 vis, full returns. 10 bbl LCM sweeps every other std.  ** 11 ppb sweeps - 5.5 ppb ea Mica & Hubercarb 200 **  Lithology: 12220 - 90% SH, 10% LS 12580 - 80% SH, 20% LS 12670 - 90% SH, 10% LS 13390 - 80% SH, 20% LS 13480 - 90% SH, 10% LS  ** SPR's @ 13,235' **
3/22/2016 17:00	3/22/2016 17:30	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig service - Lubricate TDS & blocks
3/22/2016 17:30	3/23/2016 06:00	12.5		DRILL	DRL	Drill lateral F/13,621' T/14,185' @ 45 fph, 42% complete. 36% Rot @ 88 fph 64% Sldg @ 26 fph MW: 8.2 w/ 57 vis, full returns. 10 bbl LCM sweeps every other std.  ** 11 ppb sweeps - 5.5 ppb ea Mica & Hubercarb 200 **  Lithology: 13630 - 90% SH, 10% LS 13810 - 80% SH, 20% LS 13840 - 90% SH, 10% LS 13870 - 70% SH, 30% LS 13990 - 80% SH, 20% LS 14050 - 90% SH, 10% LS 14110 - 90% SH, 10% LS  ** SPR's @ 14,974' **

Report #: 15 Daily Operation: 3/23/2016 06:00 - 3/24/2016 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 037567
Days From Spud (days) 46	Days on Location (days) 13	End Depth (ftKB) 15,806.0
	End Depth (TVD) (ftKB) 9,491.1	Dens Last Mud (lb/gal) 8.40
		Rig PATTERSON - UTI, 802

#### Operations Summary

Drill 8 1/2" Production Lateral F/14,185' T/15,806'

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 163

Last Survey @ 15,673', Inc.88.5° Azi. 165.5°, Temp 175°F, Gamma 104, 4.6' Below & 1.6' Left of Plan 3 Line, Production Lateral 57% Complete



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/23/2016 06:00	3/23/2016 21:30	15.5		DRILL	DRL	Drill lateral F/14185' T/15180' @ 66 fph, 51% complete. 50% Rot @ 94 fph 47% Sldg @ 56 fph MW: 8.2 w/ a 48 vis, full returns. MW: 8.2 / 48, full returns. 5 bbl LCM sweep every std.  **Sweeps: 7 sx ea - Mica, Hubercarb 200, Tiger Bullets**  Lithology: 14140 - 80% SH, 20% LS 14200 - 70% SH, 30% LS 14260 - 80% SH, 20% LS 14290 - 90% SH, 10% LS 14350 - 80% SH, 20% LS 14380 - 90% SH, 10% LS 14470 - 60% SH, 40% LS 14530 - 70% SH, 30% LS 14650 - 50% SH, 50% LS 14770 - 60% SH, 40% LS
3/23/2016 21:30	3/23/2016 22:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig Service.
3/23/2016 22:00	3/24/2016 06:00	8		DRILL	DRL	Drill lateral F/15180' T/15806' @ 78 fph, 57% complete. 72% Rot @ 83 fph 28% Sldg @ 35 fph MW: 8.2 w/ a 48 vis, full returns. 5 bbl LCM sweep every std.  Lithology: 15250 - 80% SH, 20% LS 15430 - 90% SH, 10% LS 15520 - 80% SH, 20% LS 15550 - 90% SH, 10% LS

Report #: 16 Daily Operation: 3/24/2016 06:00 - 3/25/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 037567	
Days From Spud (days) 47	Days on Location (days) 14	End Depth (ftKB) 17,337.0	End Depth (TVD) (ftKB) 9,452.3	Dens Last Mud (lb/gal) 8.30	Rig PATTERSON - UTI, 802	

#### Operations Summary

Drill 8 1/2" Production Lateral F/15,806' T/17,337'

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 163

Last Survey @ MD: 17267' INC 91.1° AZM 166.45 TVD 9452.91' VS 7266.8' TEMP 168 GAMMA 110 - 17.7 ABOVE, 26' RIGHT, plan #3, Lateral 72% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/24/2016 06:00	3/24/2016 15:30	9.5		DRILL	DRL	Drill lateral F/15806' T/16587' @ 69 fph, 65% complete. 67% Rot @ 77 fph 33% Sldg @ 37 fph MW: 8.3 w/ a 56 vis, full returns.  **Sweeps: 7 sx ea - Mica, Hubercarb 200, Tiger Bullets**  Lithology: 15820 - 80% SH, 20% LS 15970 - 90% SH, 10% LS 16550 - 80% SH, 20% LS
3/24/2016 15:30	3/24/2016 16:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig Service

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/24/2016 16:00	3/25/2016 04:00	12		DRILL	DRL	Drill lateral F/16587' T/17306' @ 62 fph, 72% complete. 42% Rot @ 85 fph 58% Sldg @ 27 fph MW: 8.3 w/ a 56 vis, full returns.  Lithology: 16550 - 80% SH, 20% LS 16970 - 90% SH, 10% LS 17030 - 90% SH, 10% LS
3/25/2016 04:00	3/25/2016 04:30	0.5		3RD PARTY REPAIR	3RD_PT Y	Trouble shoot mwd. No Pluse. Shut pumps down 5 min. Started pumps ulse resumed as normal.
3/25/2016 04:30	3/25/2016 05:00	0.5		DRILL	DRL	Drill lateral F/17306' T/17337' @ 31 fph, 72% complete. 50% Rot @ 40 fph 50% Sldg @ 22 fph MW: 8.3 w/ a 56 vis, full returns
3/25/2016 05:00	3/25/2016 06:00	1		CIRCULATE	CIRC	Circ. light mud to bit to clean up mwd. MWD having issues.

Report #: 17 Daily Operation: 3/25/2016 06:00 - 3/26/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 037567
Days From Spud (days) 48	Days on Location (days) 15	End Depth (ftKB) 17,978.0	End Depth (TVD) (ftKB) 9,429.0	Dens Last Mud (lb/gal) 8.30	Rig PATTERSON - UTI, 802	

#### Operations Summary

Drill 8 1/2" Production Lateral T/17,978'. Troubleshoot MWD, circ & TOOH for BHA

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 8.75, Total - 171.75

Last Survey @ MD: 17829' INC 93.5° AZM 164.27 TVD 9432.49' N/S -7619.56' E/W 1794.94' DLS 1.84° VS 7828.02' TEMP 175 GAMMA 98 @ SURVEY: 19' AB, plan #3, 78% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/25/2016 06:00	3/25/2016 15:00	9		DRILL	DRL	Drill lateral F/17306' T/17801' (495' @ 60 fph) 77% complete. 70% Rot @ 78 fph 30% Sldg @ 61 fph MW: 8.3/56, full returns.  Lithology: 17420 - 80% SH, 20% LS 17600 - 90% SH, 10% LS 17630 - 70% SH, 30% LS 17750 - 60% SH, 40% LS
3/25/2016 15:00	3/25/2016 15:30	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig service
3/25/2016 15:30	3/25/2016 20:45	5.25		DRILL	DRL	Drill lateral F/17801' T/17962' @ 31 fph, 78% complete. 71% Rot @ 32 fph 29% Sldg @ 33 fph MW: 8.3 w/ a 56 vis, full returns
3/25/2016 20:45	3/25/2016 22:30	1.75		CIRCULATE	CIRC	Circ. and pump walnuts hulls 5 lb pb. To clean up around mwd.
3/25/2016 22:30	3/25/2016 23:00	0.5		DRILL	DRL	Drill lateral F/17962' T/17978' @ 32 fph, 78% complete. 0% Rot @ - fph 100% Sldg @ 32 fph MW: 8.3 w/ a 56 vis, full returns
3/25/2016 23:00	3/26/2016 00:30	1.5		CIRCULATE	CIRC	Circ and prepare to trip out for new bha. Had mwd failure.
3/26/2016 00:30	3/26/2016 06:00	5.5		TOOH - ELEVATOR	TOOH_E LEV	Tooh for bha. @ 2000

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Report #: 18 Daily Operation: 3/26/2016 06:00 - 3/27/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 037567
Days From Spud (days) 49	Days on Location (days) 16	End Depth (ftKB) 18,389.0	End Depth (TVD) (ftKB) 9,430.3	Dens Last Mud (lb/gal) 8.40	Rig PATTERSON - UTI, 802

### Operations Summary

LD BHA, PU new lateral BHA, TIH, Drill T/18,389'

### Remarks

No Accidents or Spills

### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 16.5, Total - 188.25

Last Survey @ MD: 18227' INC 89.8° AZM 165.4 TVD 9430.85' N/S -8004.28' E/W 1896.37' DLS 1.29° VS 8225.8' TEMP 175 GAMMA 114 @ SURVEY: 11.6 AB, 11.7 R, 82% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/26/2016 06:00	3/26/2016 06:15	0.25		TOOH - ELEVATOR	TOOH_ELEV	TOOH F/2000' - T/ BHA'. Monitoring hole fill from trip tanks.
3/26/2016 06:15	3/26/2016 06:30	0.25		N/U BOPE	NU_BOP E	Remove rotating head and install trip nipple.
3/26/2016 06:30	3/26/2016 06:45	0.25		SAFETY	SFTY	PJSM - Handling BHA
3/26/2016 06:45	3/26/2016 07:45	1		L/D BHA	L/D BHA	LD lateral BHA. Drain MM (good). Break 8.5" HAL MMD65D (1-4-CT-S-X-0-WT-DTF).
3/26/2016 07:45	3/26/2016 09:30	1.75		P/U BHA	PU_BHA	MU 8.5" BHA. PU MM & MWD. Surface test tools. MU 8.5" MM65D.
3/26/2016 09:30	3/26/2016 13:15	3.75		TIH - ELEVATOR	TIH_ELEV	TIH T/6,197', filling pipe every 30 stds. Hole displacing properly to trip tanks
3/26/2016 13:15	3/26/2016 13:30	0.25		SAFETY	SFTY	PJSM - Slip & Cut
3/26/2016 13:30	3/26/2016 14:30	1		SLIP & CUT	SLIP_CUT	Slip & cut 80' Re-calibrate drawworks
3/26/2016 14:30	3/26/2016 14:45	0.25		TIH - ELEVATOR	TIH_ELEV	TIH F/5760' T/6133' Hole displacing properly to trip tanks
3/26/2016 14:45	3/26/2016 16:15	1.5		LWD	LWD	Survey mgmt - 6 axis surveys F/6,133' to 6,696'.
3/26/2016 16:15	3/26/2016 20:45	4.5		TIH - ELEVATOR	TIH_ELEV	TIH F/6696' & tag up @ 17265' Fill pipe every 30 std, Hole displacing properly to trip tanks
3/26/2016 20:45	3/26/2016 21:45	1		TIH - NON-ELEVATOR	TIH_NON ELEV	W&R F/17265' T/17928' RPM-40, TQ-11k, GPM-420, SPP-2020, WOB-15k
3/26/2016 21:45	3/26/2016 22:30	0.75		LWD	LWD	Re-log gamma @ 150 fph
3/26/2016 22:30	3/27/2016 06:00	7.5		DRILL	DRL	Drill lateral F/17978' T/18389' (411' @ 55 fph) 82% complete. 73% Rot @ 70 fph 27% Sldg @ 16 fph MW: 8.3/56, full returns.  Lithology: 18010 - 80% SH, 20% LS 18030 - 70% SH, 30% LS 18150 - 80% SH, 20% LS

Report #: 19 Daily Operation: 3/27/2016 06:00 - 3/28/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 037567
Days From Spud (days) 50	Days on Location (days) 17	End Depth (ftKB) 18,668.0	End Depth (TVD) (ftKB) 9,422.1	Dens Last Mud (lb/gal) 8.40	Rig PATTERSON - UTI, 802

### Operations Summary

Drill to 18,668', troubleshoot SPP spike, TOOH wet & LD BHA.MM or agitator didn't drain.2 jets plugged w/ rubber.

### Remarks

No Accidents or Spills

### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 17, Total - 205.25

Survey @ MD: 18508' INC 94.1° AZM 166.05 TVD 9424.95' N/S -8275.98' E/W 1967.35' DLS 2.6° VS 8506.57' TEMP 175 GAMMA 110 @ SURVEY: 9.8' ABOVE / 9.5' RIGHT 82% Complete

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/27/2016 06:00	3/27/2016 13:00	7		DRILL	DRL	Drill lateral F/18389' T/18668' (279' @ 40 fph) 85% complete. 57% Rot @ 51 fph 43% Sldg @ 27 fph MW: 8.3+/58, full returns.  Lithology: 18390 - 80% SH, 20% LS 18480 - 70% SH, 30% LS 18530 - 60% SH, 40% LS 18540 - 70% SH, 30% LS
3/27/2016 13:00	3/27/2016 13:30	0.5		DRILL	DRL	After connection, seen off bottom pressure spike of 700# over previous std. Rack that std back, isolate pumps, re-take SPR @ 20 SPM on each pump, nearly double previous reading 250' ago.
3/27/2016 13:30	3/27/2016 13:45	0.25		SAFETY	SFTY	PJSM w/ Patt & PNR over proper wet trip practices
3/27/2016 13:45	3/27/2016 15:15	1.5		TOOH - ELEVATOR	TOOH_E LEV	Pull 7 stds wet while building slug, Max PU 355k
3/27/2016 15:15	3/28/2016 03:00	11.75		TOOH - ELEVATOR	TOOH_E LEV	Pump slug, Pipe pulled wet. TOOH T/xxxx, no issues, hole taking proper fill from trip tanks.
3/28/2016 03:00	3/28/2016 04:30	1.5		L/D BHA	L/D BHA	LD lateral BHA. Drain MM (Did not drain). 2 jets plug and agitator did not drain. Break 8.5" HAL MMD65D (1-4-CT-S-X-0-WT-DTF).
3/28/2016 04:30	3/28/2016 05:30	1		SAFETY	SFTY	Clean floor and was top dog house windows. TOOH wet trip mud bucket leaking out of side rubbers.
3/28/2016 05:30	3/28/2016 06:00	0.5		P/U BHA	PU_BHA	MU 8.5" BHA. PU MM & MWD. Surface test tools. MU 8.5" MM65D.

Report #: 20 Daily Operation: 3/28/2016 06:00 - 3/29/2016 06:00

Job Category	Primary Job Type				AFE Number
ORIG DRILLING	ODR				037567
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
51	18	19,231.0	9,403.0	8.40	PATTERSON - UTI, 802

#### Operations Summary

MU BHA, TIH, Ream 16,650 to 18,668, Drill Lateral T/19,231'

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 16.75, Total - 222

SURVEY @ MD: 19069' INC 93.4° AZM 164.73 TVD 9411.02' N/S -8819.22' E/W 2106.23' DLS 1.97° VS 9067.22' TEMP 175 GAMMA 93 @ SURVEY: 9.7' ABOVE / 7.4' RIGHT 91% Complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/28/2016 06:00	3/28/2016 06:30	0.5		SAFETY	SFTY	Finish cleaning OBM off rig floor from wet trip, RD mud bucket
3/28/2016 06:30	3/28/2016 06:45	0.25		SAFETY	SFTY	PJSM w/ Patt, Leam & PNR on proper BHA handling
3/28/2016 06:45	3/28/2016 08:30	1.75		P/U BHA	PU_BHA	MU 8.5" BHA. PU MM & MWD. Surface test tools. MU 8.5" MM65D.
3/28/2016 08:30	3/28/2016 11:45	3.25		TIH - ELEVATOR	TIH_ELEV	TIH T/6,197', filling pipe every 30 stds. Hole displacing properly ** PU agitator @ 2948' **
3/28/2016 11:45	3/28/2016 12:30	0.75		CIRCULATE	CIRC	Swap rotating head, fill pipe, test agitator w/ 60 spm & 750 psi
3/28/2016 12:30	3/28/2016 13:00	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig Service - Blocks, TD, DW & Crown
3/28/2016 13:00	3/28/2016 14:30	1.5		LWD	LWD	Survey mgmt - 6 axis surveys F/6,133' to 6,696'.
3/28/2016 14:30	3/28/2016 20:00	5.5		TIH - ELEVATOR	TIH_ELEV	TIH F/6696' & tag up @ 16650' Fill pipe every 30 std. Hole displacing properly.
3/28/2016 20:00	3/28/2016 22:00	2		TIH - NON-ELEVATOR	TIH_NON ELEV	Wash & Ream F/16,650 T/18,575' @ GPM-418, SPP-1995, RPM-40, TQ-11k
3/28/2016 22:00	3/28/2016 22:45	0.75		LWD	LWD	Re-Log last std @ GPM-544, SPP-3650, RPM-80, TQ-10k.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/28/2016 22:45	3/29/2016 06:00	7.25		DRILL	DRL	Drill lateral F/18668' T/19231' (563' @ 78 fph) 91% complete. 83% Rot @ 83 fph 17% Sldg @ 30 fph MW: 8.3+/58, full returns.  Lithology: 18760 - 80% SH, 20% LS 18820 - 80% SH, 20% LS 18880 - 70% SH, 30% LS 18990 - 80% SH, 20% LS

Report #: 21 Daily Operation: 3/29/2016 06:00 - 3/30/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 037567
Days From Spud (days) 52	Days on Location (days) 19	End Depth (ftKB) 20,165.0	End Depth (TVD) (ftKB) 9,386.7	Dens Last Mud (lb/gal) 8.40	Rig PATTERSON - UTI, 802

#### Operations Summary

Drill to TD @ 20,165', Circ per K&M. Perform flow check & Slug pipe tooh. 17,500'

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 222

Final Survey - 20097' INC 92.4° AZM 163.05 TVD 9389.22' DLS 1.03° VS 10094.2' TEMP 182 GAMMA 109 (5.8' ABOVE / 15.1' LEFT) 100% complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/29/2016 06:00	3/29/2016 16:15	10.2 5		DRILL	DRL	Drill lateral F/19231' T/19887' (656' @ 64 fph) 97% complete. 83% Rot @ 63 fph 17% Sldg @ 21 fph MW: 8.4/59, full returns.  Lithology: 19240 - 70% SH, 30% LS 19330 - 60% SH, 40% LS 19360 - 70% SH, 30% LS 19420 - 60% LS, 40% SH 19480 - 50% SH, 50% LS 19600 - 60% LS, 40% SH 19660 - 70% SH, 30% LS
3/29/2016 16:15	3/29/2016 16:45	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig Service - DW, TDS & Blocks
3/29/2016 16:45	3/29/2016 21:00	4.25		DRILL	DRL	Drill lateral F/19887' T/20165' (278' @ 74 fph) 100% complete. 100% Rot @ 74 fph MW: 8.4/60, full returns.  Lithology: 19900 - 80% SH, 20% LS 20020 - 80% SH, 20% LS
3/29/2016 21:00	3/29/2016 22:00	1		CIRCULATE	CIRC	Circ BU @ TD, GPM-561, SPP-3796, RPM-100, TQ-11k Then take final survey - 92.4° / 163.05° / 5.8' above / 15.1' Left
3/29/2016 22:00	3/30/2016 04:00	6		CIRCULATE	CIRC	Circ 6 x BU. GPM-561, SPP-3680, RPM-100, TQ-11k Circ out 2-10 bbl vis sweep, followed by 2-20 bbl vis sweep. 1st set of sweeps loaded up shakers w/ cuttings, 1st 20 bbl sweep unloaded fines & shakers cleaned up following final sweep.
3/30/2016 04:00	3/30/2016 04:15	0.25		FLOW CHECK	FLOW_C HK	Flow Check - Well Static.
3/30/2016 04:15	3/30/2016 06:00	1.75		TOOH - ELEVATOR	TOOH_E LEV	Tooh to run 5.5 casing.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Report #: 22 Daily Operation: 3/30/2016 06:00 - 3/31/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 037567
Days From Spud (days) 53	Days on Location (days) 20	End Depth (ftKB) 20,165.0	End Depth (TVD) (ftKB) 9,386.7	Dens Last Mud (lb/gal) 8.50	Rig PATTERSON - UTI, 802

### Operations Summary

Finish TOO H, LD BHA, RU csg tools & run prod'n csg to 11,000'

### Remarks

No Accidents or Spills

NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 222

Final Survey - 20097' INC 92.4° AZM 163.05 TVD 9389.22' DLS 1.03° VS 10094.2' TEMP 182 GAMMA 109 (5.8' ABOVE / 15.1' LEFT) 100% complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/30/2016 06:00	3/30/2016 10:00	4		TOOH - ELEVATOR	TOOH_E LEV	Cont. TOOH F/14,500' to 5400' Hole taking proper fill from trip tank.
3/30/2016 10:00	3/30/2016 10:30	0.5		PLANNED RIG SERVICE	RIG_SVC	Rig service
3/30/2016 10:30	3/30/2016 11:00	0.5		N/U BOPE	NU_BOP E	Pull rotating head & install trip nipple.
3/30/2016 11:00	3/30/2016 13:30	2.5		TOOH - ELEVATOR	TOOH_E LEV	Cont. TOOH F/ 3,500' to 115'. Hole taking proper fill from trip tanks. ** Lay down agitator @ 2,950'
3/30/2016 13:30	3/30/2016 13:45	0.25		PLANNED RIG SERVICE	RIG_SVC	PJSM w/ Patt, Leam & PNR - Proper BHA handling
3/30/2016 13:45	3/30/2016 15:30	1.75		L/D BHA	L/D BHA	LD lateral BHA. Drain MM (good). Break 8.5" HAL MMD65D (1-1-WT-S-X-0-WT-TD)
3/30/2016 15:30	3/30/2016 15:45	0.25		SAFETY	SFTY	PJSM w/ Patt & PNR over pulling wear bushing.
3/30/2016 15:45	3/30/2016 16:15	0.5		WELLHEAD	WH	PU single jt DP w/ wear bushing retrieval tool already MU, remove lock down pins & pull wear bushing & LD same  ** Confined Space Permit in Place**
3/30/2016 16:15	3/30/2016 16:30	0.25		SAFETY	SFTY	PJSM w/ Patt, Franks, Weatherford, Superior, Frontier - RU for production casing job & running production casing.
3/30/2016 16:30	3/30/2016 18:00	1.5		RIG UP	RU	RU Franks casing crew and Frontier torque turn. Perform safety inspection on tools.
3/30/2016 18:00	3/30/2016 19:00	1		RUN CSG W/O WASH	CSG_W/ OWASH	MU shoe track & test same (good).  Down Jet Single Valve Float Shoe, 2 jts csg, Double Valve Float Collar w/ Latch-in plate, 1 jt csg, 1 Weatherford time delayed toe sleeve (15 mins) w/ pups on ends (pinned @12,500 psi)  **Thread lock every connection **Everything is 5-1/2" 20# P-110 IC, TXP-BTC **Optimum Torque = 12,520 ft/lbs
3/30/2016 19:00	3/31/2016 00:15	5.25		RUN CSG W/O WASH	CSG_W/ OWASH	Run 5.5" Production Casing F/155' to 6,053'. Fill every 30 jts. OptimumTq. - 12,520 ft/lbs. Hole displacing properly.  Avg. ID of 10 Jts. 4.7815" Avg. OD of 10 Collars 6.0625" ID of Elevators 5.625"
3/31/2016 00:15	3/31/2016 00:45	0.5		RUN CSG W/O WASH	CSG_W/ OWASH	Broke circ. at shoe. @6,053 full returns no losses.
3/31/2016 00:45	3/31/2016 04:00	3.25		RUN CSG W/O WASH	CSG_W/ OWASH	Run 5.5" Production Casing F/6,053' to 10,054'. Fill every 30 jts. OptimumTq. - 12,520 ft/lbs. Hole displacing properly.  Avg. ID of 10 Jts. 4.7815" Avg. OD of 10 Collars 6.0625" ID of Elevators 5.625"
3/31/2016 04:00	3/31/2016 05:00	1		RUN CSG W/O WASH	CSG_W/ OWASH	Circ B/U @ 10,054' (base of curve) @ 8 bpm, 392 psi. Full returns to surface. 45 units gas @ B/U. Shakers clean throughout.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/31/2016 05:00	3/31/2016 06:00	1		RUN CSG W/O WASH	CSG_W/ OWASH	Run 5.5" Production Casing F/10,054' to 11,000'. Fill every 30 jts. OptimumTq. - 12,520 ft/lbs. Hole displacing properly.  Avg. ID of 10 Jts. 4.7815" Avg. OD of 10 Collars 6.0625" ID of Elevators 5.625"

Report #: 23 Daily Operation: 3/31/2016 06:00 - 4/1/2016 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 037567
Days From Spud (days) 54	Days on Location (days) 21	End Depth (ftKB) 20,165.0	End Depth (TVD) (ftKB) 9,386.7	Dens Last Mud (lb/gal) 8.40	Rig PATTERSON - UTI, 802	

#### Operations Summary

Run 5-1/2" Production Casing, Cement Casing, Install packoff, N/D BOP, Install & Test Abandonment Cap

#### Remarks

No Accidents or Spills

#### NPT for March:

Patterson: Past 24 hrs - 0, Total - 11.5

3rd Party: Past 24 hrs - 0, Total - 222

Final Survey - 20097' INC 92.4° AZM 163.05 TVD 9389.22' DLS 1.03° VS 10094.2' TEMP 182 GAMMA 109 (5.8' ABOVE / 15.1' LEFT) 100% complete

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/31/2016 06:00	3/31/2016 15:30	9.5		RUN CSG W/O WASH	CSG_W/ OWASH	Run 5.5" Production Casing F/11,000' to 20,017'. Fill every 30 jts. OptimumTq. - 12,520 ft/lbs. Hole displacing properly.
3/31/2016 15:30	3/31/2016 16:00	0.5		RUN CSG WITH WASH	CSG_W WASH	Pick up casing hanger & landing joint, land casing in well head. Seaboard/Weir Rep. & PNR Co. Man Witness. Casing set at 20,133' MD  **Seaboard/Weir Rep. confirmed all lock pins backed out prior to landing.  **Confined Space Permit in place.  Marker 1                      8,915' Marker 2                      8,728' Toe Sleeve                      19,989' Float Collar                      20,045' Shoe                              20,130'  Ran 43 Rigid Body Centralizers
3/31/2016 16:00	3/31/2016 16:15	0.25		SAFETY	SFTY	PJSM W/Patterson rig crew, Frontier Tq Turn, Franks casing crew & PNR Rep. on R/D casing tools, R/D casing tools.
3/31/2016 16:15	3/31/2016 16:45	0.5		RIG DOWN	RD	Rig down Franks CRT & Casing tools. Lay down the same.
3/31/2016 16:45	3/31/2016 17:15	0.5		RIG UP	RU	Rig up cmt head & circ w/ rig pumps while prepping for cmt job.
3/31/2016 17:15	3/31/2016 18:30	1.25		CIRCULATE	CIRC	Circ. Casing volume @ 8 bpm, 635 spp. 1 x surface/surface volume.  **PJSM W/Patterson rig crew, SLB & PNR Rep. on R/U Cementers, R/U Cement Pumps & iron to floor while circulating casing.

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

### Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
3/31/2016 18:30	3/31/2016 23:00	4.5		CEMENT	CMT	Cement 5 1/2" casing:  Flush lines to pits;  Test lines to 4,500 psi; Pump 50 bbls Visc Water; Pump 50 bbl spacer (9.5 ppg Mudpush); Pump 165 bbl lead cement (362 sks; Yield 2.56; 11.5 ppg); Pump 482 bbl Tail cement (1680 sks; 12.5 ppg; Yield 1.61); Displace w/444 bbl H2O 8.3 ppg; land plug with 1,700 psi @ 3.3 bbls/min. and bump 1,800 psi over FCP to 3,500 psi; Floats held; Bleed back 5.5 bbls to truck; Full returns through out cement job.  ** Cementing details under cementing section **
3/31/2016 23:00	3/31/2016 23:30	0.5		RIG DOWN	RD	Rig Down Head and Cement iron from rig floor.  ** Start flushing through mud lines & Stack **
3/31/2016 23:30	4/1/2016 00:30	1		CEMENT	CMT	Finish Flushing through mud lines & BOP stack & blow back through lines to pits. Drain Stack.
4/1/2016 00:30	4/1/2016 00:45	0.25		SAFETY	SFTY	PJSM over install pack off w/ rig crew, Seaboard rep & PNR CM.
4/1/2016 00:45	4/1/2016 02:15	1.5		WELLHEAD	WH	Remove landing joint, install pack off, energize seals and tighten all lock pins. Pull setting tool & L/D Landing joint.  **PNR Rep. Witness operation.  **Confined Space Permit in Place
4/1/2016 02:15	4/1/2016 02:30	0.25		SAFETY	SFTY	PJSM over Nippling down stack & installing night cap with Rig crew, Edge crew & PNR CM.
4/1/2016 02:30	4/1/2016 06:00	3.5		N/D BOPE	ND_BOP E	Install BOP wrangler, 4 bolt BOPs, Rig down turn buckles, break flow line, break spool @ top of wellhead. Lift stack.  **Install, torque up night cap & test **  **Release rig from University 7-43 28H at 06:00 hrs on 4/1/16 **

### WELL DETAILS

Well Name UNIVERSITY 7-43 28H	API/UWI 42-003-47294-0000	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	20	29.0	129.0	1/26/2016	1/26/2016
SURFACE	17 1/2	129.0	1,924.0	2/7/2016	2/8/2016
INTERMEDIATE	12 1/4	1,924.0	6,100.0	2/17/2016	2/19/2016
PRODUCTION	8 3/4	6,100.0	8,950.0	3/17/2016	3/19/2016
PRODUCTION 2	8 1/2	8,950.0	20,165.0	3/20/2016	3/29/2016

### Conductor Casing

Run Date		Set Depth (ftKB)				Centralizers			
		100.0							
Item Des		OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
CONDUCTOR		20	19.25	94.00	L-80	100.00	1	0.0	100.0
Run Date		Set Depth (ftKB)				Centralizers			
1/26/2016		129.0							
Item Des		OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
CONDUCTOR		20	19.625	78.60	H-40	100.00	2	29.0	129.0

### Surface Casing

Set Depth (ftKB)	Run Date	Centralizers						
1,924.0	2/8/2016	12						
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	1,882.61	45	-8.2	1,874.4
FLOAT COLLAR	13 3/8	12.615			1.60	1	1,876.0	1,877.6
FLOAT COLLAR	13 3/8	12.615			1.60	1	1,874.4	1,876.0

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

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	42.92	1	1,877.6	1,920.5	
FLOAT SHOE		13 3/8	12.615			1.75	1	1,922.3	1,924.0	
FLOAT SHOE		13 3/8	12.615			1.75	1	1,920.5	1,922.3	
Set Depth (ftKB) 2,000.0	Run Date 2/8/2016		Centralizers							
Item Des		OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)	
CASING JOINTS		13 3/8	12.615	54.50	J-55	2,000.00	50	0.0	2,000.0	
Surface Casing Cement										
Type Casing	String SURFACE, 1,924.0ftKB		Cementing Start Date 2/8/2016		Cementing End Date 2/8/2016		Cementing Company SCHLUMBERGER		Top (ftKB) 29.0	Btm (ftKB) 1,924.0
Class Spacer	Amount (sacks) 0			Yield (ft³/sack) 0.00			Density (lb/gal)			
Class Class C	Amount (sacks) 1,337			Yield (ft³/sack) 1.66			Density (lb/gal) 13.00			
Class Class C	Amount (sacks) 111			Yield (ft³/sack) 1.66			Density (lb/gal) 13.60			
Class Displace	Amount (sacks) 0			Yield (ft³/sack) 0.00			Density (lb/gal) 8.34			
Intermediate Casing										
Set Depth (ftKB) 6,040.0	Run Date 2/20/2016		Centralizers 15							
Item Des		OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)	
CASING JOINTS		9 5/8	8.835	40.00	L-80 IC	0.00	0	-5.1	-5.1	
LANDING JOINT		9 5/8	8.835	40.00	L-80 IC	35.00	1	-5.1	29.9	
CASING HANGER		9 5/8	8.835		L-80 IC	4.00	1	29.9	33.9	
CASING JOINTS		9 5/8	8.835	40.00	L-80 IC	90.65	2	33.9	124.6	
CASING JOINTS		9 5/8	8.835	40.00	L-80 IC	5,820.13	129	124.6	5,944.7	
FLOAT COLLAR		9 5/8	8.835	40.00	L-80	1.25	1	5,944.7	5,945.9	
CASING JOINTS		9 5/8	8.835	40.00	L-80 IC	92.51	2	5,945.9	6,038.5	
FLOAT SHOE		9 5/8	8.835	40.00	L-80	1.55	1	6,038.5	6,040.0	
Set Depth (ftKB) 6,100.0	Run Date 2/8/2016		Centralizers							
Item Des		OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)	
CASING JOINTS		9 5/8	8.835	40.00	L-80 IC	6,100.00	153	0.0	6,100.0	
Intermediate Casing Cement										
Type Casing	String INTERMEDIATE, 6,040.0ftKB		Cementing Start Date 2/20/2016		Cementing End Date 2/20/2016		Cementing Company SCHLUMBERGER		Top (ftKB) 3,718.0	Btm (ftKB) 6,100.0
Class Water	Amount (sacks) 0			Yield (ft³/sack)			Density (lb/gal) 8.34			
Class Mudpush Epress	Amount (sacks) 0			Yield (ft³/sack)			Density (lb/gal) 10.00			
Class TXI LITEWEIGHT	Amount (sacks) 670			Yield (ft³/sack) 2.19			Density (lb/gal) 11.50			
Class CLASS C	Amount (sacks) 400			Yield (ft³/sack) 1.07			Density (lb/gal) 16.40			
Class Water	Amount (sacks) 0			Yield (ft³/sack)			Density (lb/gal) 8.34			
Production Casing										
Set Depth (ftKB) 20,133.0	Run Date 3/31/2016		Centralizers 43							
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		P-110 IC	0.00	0	-5.5	-5.5	
CASING JOINTS		5 1/2	4.766	20.00	P-110 IC	0.00	0	-5.5	-5.5	
LANDING JOINT		5 1/2	4.778			35.00	1	-5.5	29.5	
CASING HANGER		5 1/2	4.778			4.00	1	29.5	33.5	
CASING JOINTS		5 1/2	4.766	20.00	P-110 IC	40.92	1	33.5	74.5	
CASING JOINTS		5 1/2	4.778	20.00	P-110 IC	1,858.41	45	74.5	1,932.9	
MARKER JOINT		5 1/2	4.778	20.00	P-110	83.63	2	1,932.9	2,016.5	
CASING JOINTS		5 1/2	4.778	20.00	P-110 IC	6,711.74	163	2,016.5	8,728.2	
MARKER JOINT		5 1/2	4.778	20.00	P-110 IC	20.20	1	8,728.2	8,748.4	
CASING JOINTS		5 1/2	4.778	20.00	P-110 IC	166.59	4	8,748.4	8,915.0	
MARKER JOINT		5 1/2	4.778	20.00	P-110	20.13	1	8,915.0	8,935.2	

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
CASING JOINTS	5 1/2	4.778	20.00	P-110 IC	11,043.08	268	8,935.2	19,978.2
PUP JOINT	5 1/2	4.778			10.42	1	19,978.2	19,988.7
TOE SLEEVE - DELAYED	5 1/2	4.548	26.00	P-110	5.63	1	19,988.7	19,994.3
PUP JOINT	5 1/2	4.778			10.48	1	19,994.3	20,004.8
CASING JOINTS	5 1/2	4.778	20.00	P-110 IC	40.94	1	20,004.8	20,045.7
FLOAT COLLAR	5 1/2	4.548	26.00	P-110	1.62	1	20,045.7	20,047.3
CASING JOINTS	5 1/2	4.778	20.00	P-110 IC	82.98	2	20,047.3	20,130.3
FLOAT SHOE	5 1/2	4.548	26.00	P-110	2.69	1	20,130.3	20,133.0

Set Depth (ftKB)	Run Date	Centralizers
20,207.0	2/8/2016	

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
CASING JOINTS	5 1/2	4.766	20.00	P-110 IC	20,207.47	505	-0.5	20,207.0

<b>Production Casing Cement</b>							
Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)	
Casing	PRODUCTION, 20,133.0ftKB	3/31/2016	3/31/2016	SCHLUMBERGER	5,500.0	20,165.0	
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)				
MUDPUSH	0		9.50				
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)				
TXI LITEWEIGHT	378	2.56	11.50				
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)				
TXI LITEWEIGHT	1,680	1.61	12.50				
Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)				
DISPLACEMENT	0		8.33				

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

<b>Perforations</b>							
Top (ftKB)	Btm (ftKB)	Linked Zone	Shot Dens (shots/ft)	Entered Shot Total	Com		

<b>Stimulations &amp; Treatments (Actual)</b>							
<Interval Number?>, <Zone?>							
Date	Type	Stim/Treat Company	Top Depth (ftKB)	Bottom Depth (ftKB)	Proppant Total (lb)	Total Clean Vol (bbl)	

<b>Zones</b>							
Zone Name					Top (ftKB)		

<b>Tubing Details</b>							
Tubing Description			Set Depth (ftKB)	Run Date			

<b>Tubing Components</b>							
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)

<b>Rod Strings</b>							
Rod Description			Set Depth (ftKB)	Run Date			

<b>Rod Components</b>										
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)	Make	Model	SN

<b>Well Tests</b>								
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)

<b>Directional Survey</b>							
Date		Description					
2/7/2016		MAIN HOLE SURVEY					
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company	
2/7/2016	0.00	0.00	0.00	0.00	0.00	LEAM DRILLING SYSTEMS, INC.	
2/7/2016	218.00	0.50	317.20	218.00	0.95	LEAM DRILLING SYSTEMS, INC.	
2/7/2016	307.00	0.40	345.60	306.99	1.63	LEAM DRILLING SYSTEMS, INC.	
2/7/2016	398.00	0.50	343.40	397.99	2.34	LEAM DRILLING SYSTEMS, INC.	

## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
2/7/2016	493.00	0.40	1.20	492.99	3.08	LEAM DRILLING SYSTEMS, INC.
2/7/2016	584.00	0.50	0.40	583.99	3.80	LEAM DRILLING SYSTEMS, INC.
2/7/2016	674.00	0.50	8.40	673.98	4.58	LEAM DRILLING SYSTEMS, INC.
2/7/2016	768.00	0.40	22.20	767.98	5.31	LEAM DRILLING SYSTEMS, INC.
2/7/2016	862.00	0.50	12.10	861.98	6.05	LEAM DRILLING SYSTEMS, INC.
2/7/2016	955.00	0.50	33.70	954.97	6.84	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,049.00	0.70	35.20	1,048.97	7.83	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,143.00	0.40	59.40	1,142.96	8.71	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,237.00	0.10	124.30	1,236.96	9.08	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,330.00	0.30	176.00	1,329.96	9.38	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,424.00	0.30	174.50	1,423.96	9.88	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,518.00	0.30	203.80	1,517.96	10.35	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,612.00	0.20	180.80	1,611.96	10.75	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,706.00	0.20	164.90	1,705.96	11.08	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,799.00	0.20	106.00	1,798.96	11.36	LEAM DRILLING SYSTEMS, INC.
2/7/2016	1,864.00	0.10	45.90	1,863.96	11.51	LEAM DRILLING SYSTEMS, INC.
2/17/2016	1,987.00	0.10	97.50	1,986.96	11.71	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,080.00	0.40	113.80	2,079.96	12.11	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,174.00	1.10	331.50	2,173.95	12.78	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,268.00	1.80	326.00	2,267.92	15.16	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,361.00	1.60	326.50	2,360.88	17.92	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,455.00	1.50	325.00	2,454.85	20.46	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,549.00	1.50	329.70	2,548.81	22.92	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,642.00	1.20	332.70	2,641.79	25.11	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,736.00	1.10	339.10	2,735.77	26.99	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,830.00	2.30	324.80	2,829.73	29.76	LEAM DRILLING SYSTEMS, INC.
2/17/2016	2,924.00	4.80	332.30	2,923.54	35.57	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,018.00	7.00	336.00	3,017.04	45.23	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,111.00	9.10	335.20	3,109.11	58.25	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,205.00	11.20	338.60	3,201.64	74.81	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,299.00	12.40	338.60	3,293.65	94.03	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,392.00	12.80	338.00	3,384.41	114.32	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,486.00	12.80	338.50	3,476.07	135.14	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,580.00	14.00	338.00	3,567.51	156.93	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,674.00	14.30	338.10	3,658.66	179.90	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,768.00	14.10	338.90	3,749.79	202.96	LEAM DRILLING SYSTEMS, INC.
2/17/2016	3,861.00	13.80	339.30	3,840.05	225.38	LEAM DRILLING SYSTEMS, INC.
2/18/2016	3,955.00	13.70	339.80	3,931.35	247.73	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,049.00	13.70	341.60	4,022.68	269.99	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,143.00	13.90	338.30	4,113.97	292.40	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,236.00	14.10	337.40	4,204.20	314.90	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,330.00	13.70	338.20	4,295.45	337.48	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,424.00	13.50	339.50	4,386.82	359.58	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,517.00	13.90	336.00	4,477.17	381.60	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,611.00	13.70	335.30	4,568.46	404.02	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,704.00	13.10	336.80	4,658.93	425.57	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,798.00	12.60	335.30	4,750.57	446.47	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,892.00	13.50	335.10	4,842.14	467.70	LEAM DRILLING SYSTEMS, INC.
2/18/2016	4,985.00	14.00	337.30	4,932.48	489.80	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,079.00	13.50	337.60	5,023.78	512.14	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,173.00	13.30	338.10	5,115.23	533.92	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,266.00	13.10	338.00	5,205.77	555.16	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,360.00	12.90	336.70	5,297.36	576.30	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,453.00	13.00	336.80	5,387.99	597.15	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,547.00	12.10	340.60	5,479.75	617.56	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,641.00	11.70	340.60	5,571.73	636.94	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,735.00	9.80	341.70	5,664.07	654.48	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,828.00	9.40	342.80	5,755.77	669.98	LEAM DRILLING SYSTEMS, INC.
2/18/2016	5,922.00	8.80	338.30	5,848.59	684.84	LEAM DRILLING SYSTEMS, INC.

### Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
2/18/2016	6,016.00	8.10	339.60	5,941.57	698.65	LEAM DRILLING SYSTEMS, INC.
2/18/2016	6,042.00	7.90	340.50	5,967.32	702.27	LEAM DRILLING SYSTEMS, INC.
3/17/2016	6,111.00	7.70	340.10	6,035.68	711.63	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,205.00	6.10	341.10	6,128.99	722.93	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,299.00	3.90	348.00	6,222.63	731.10	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,392.00	1.50	359.90	6,315.52	735.47	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,486.00	1.00	10.30	6,409.50	737.51	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,580.00	1.00	9.10	6,503.48	739.15	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,674.00	0.70	271.00	6,597.48	740.08	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,767.00	0.70	256.20	6,690.47	741.21	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,861.00	0.60	252.90	6,784.46	742.27	LEAM DRILLING SYSTEMS, INC.
3/18/2016	6,955.00	0.50	241.60	6,878.46	743.17	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,049.00	0.40	227.40	6,972.46	743.90	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,142.00	0.50	223.00	7,065.45	744.63	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,236.00	0.50	187.10	7,159.45	745.42	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,330.00	0.50	158.50	7,253.45	746.21	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,424.00	0.40	165.90	7,347.44	746.95	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,517.00	0.60	168.00	7,440.44	747.76	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,611.00	0.60	170.60	7,534.44	748.74	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,705.00	1.00	202.10	7,628.43	750.01	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,799.00	1.40	236.40	7,722.41	751.89	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,892.00	1.10	303.00	7,815.39	753.59	LEAM DRILLING SYSTEMS, INC.
3/18/2016	7,986.00	1.10	316.70	7,909.37	755.38	LEAM DRILLING SYSTEMS, INC.
3/18/2016	8,080.00	1.10	54.60	8,003.36	756.57	LEAM DRILLING SYSTEMS, INC.
3/18/2016	8,173.00	1.90	92.40	8,096.33	758.88	LEAM DRILLING SYSTEMS, INC.
3/18/2016	8,267.00	0.70	91.20	8,190.31	761.02	LEAM DRILLING SYSTEMS, INC.
3/18/2016	8,361.00	0.40	108.00	8,284.30	761.91	LEAM DRILLING SYSTEMS, INC.
3/18/2016	8,455.00	0.80	123.50	8,378.30	762.88	LEAM DRILLING SYSTEMS, INC.
3/18/2016	8,548.00	0.70	137.60	8,471.29	764.09	LEAM DRILLING SYSTEMS, INC.
3/18/2016	8,642.00	1.50	179.10	8,565.27	765.80	LEAM DRILLING SYSTEMS, INC.
3/19/2016	8,736.00	0.90	180.10	8,659.25	767.77	LEAM DRILLING SYSTEMS, INC.
3/19/2016	8,829.00	0.90	186.40	8,752.24	769.22	LEAM DRILLING SYSTEMS, INC.
3/19/2016	8,884.00	0.90	174.10	8,807.23	770.08	LEAM DRILLING SYSTEMS, INC.
3/19/2016	8,947.00	1.30	162.76	8,870.22	771.29	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,041.00	11.80	150.33	8,963.48	781.97	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,134.00	21.20	157.19	9,052.56	808.31	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,228.00	29.80	162.57	9,137.33	848.71	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,321.00	37.00	157.10	9,214.94	899.82	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,415.00	44.10	163.31	9,286.35	960.83	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,509.00	51.00	172.65	9,349.83	1,030.00	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,603.00	59.60	167.36	9,403.32	1,107.16	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,697.00	67.20	166.52	9,445.38	1,191.15	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,790.00	81.50	169.63	9,470.40	1,280.46	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,884.00	89.00	168.48	9,478.18	1,374.07	LEAM DRILLING SYSTEMS, INC.
3/19/2016	9,978.00	88.10	165.63	9,480.56	1,468.03	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,072.00	89.20	166.47	9,482.78	1,562.00	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,166.00	89.80	167.29	9,483.60	1,655.99	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,259.00	88.90	165.04	9,484.65	1,748.98	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,353.00	87.80	163.27	9,487.36	1,842.94	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,447.00	86.70	164.79	9,491.87	1,936.82	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,541.00	87.30	166.47	9,496.79	2,030.69	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,634.00	88.10	166.89	9,500.52	2,123.62	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,728.00	89.10	167.35	9,502.82	2,217.59	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,822.00	89.10	166.54	9,504.29	2,311.57	LEAM DRILLING SYSTEMS, INC.
3/19/2016	10,916.00	90.00	166.59	9,505.03	2,405.57	LEAM DRILLING SYSTEMS, INC.
3/19/2016	11,010.00	90.80	166.06	9,504.38	2,499.57	LEAM DRILLING SYSTEMS, INC.
3/21/2016	11,103.00	90.20	163.68	9,503.56	2,592.56	LEAM DRILLING SYSTEMS, INC.
3/21/2016	11,197.00	88.50	164.35	9,504.63	2,686.55	LEAM DRILLING SYSTEMS, INC.
3/21/2016	11,291.00	89.20	167.31	9,506.52	2,780.52	LEAM DRILLING SYSTEMS, INC.



## Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
3/21/2016	11,384.00	91.00	168.58	9,506.36	2,873.51	LEAM DRILLING SYSTEMS, INC.
3/21/2016	11,478.00	92.00	168.31	9,503.90	2,967.48	LEAM DRILLING SYSTEMS, INC.
3/22/2016	11,572.00	91.40	166.54	9,501.11	3,061.43	LEAM DRILLING SYSTEMS, INC.
3/22/2016	11,665.00	92.10	165.90	9,498.27	3,154.39	LEAM DRILLING SYSTEMS, INC.
3/22/2016	11,759.00	92.40	165.14	9,494.58	3,248.31	LEAM DRILLING SYSTEMS, INC.
3/22/2016	11,853.00	91.30	164.53	9,491.54	3,342.26	LEAM DRILLING SYSTEMS, INC.
3/22/2016	11,947.00	88.70	163.38	9,491.54	3,436.25	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,041.00	89.80	166.36	9,492.77	3,530.23	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,134.00	89.80	166.48	9,493.10	3,623.23	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,228.00	88.80	163.45	9,494.25	3,717.21	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,322.00	90.00	165.36	9,495.23	3,811.20	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,416.00	91.50	167.35	9,494.00	3,905.19	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,509.00	91.30	165.58	9,491.73	3,998.15	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,603.00	89.50	164.88	9,491.07	4,092.15	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,697.00	89.20	163.59	9,492.14	4,186.14	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,791.00	89.80	165.57	9,492.96	4,280.13	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,884.00	91.10	166.55	9,492.23	4,373.13	LEAM DRILLING SYSTEMS, INC.
3/22/2016	12,978.00	90.90	165.59	9,490.59	4,467.11	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,072.00	89.30	163.99	9,490.42	4,561.10	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,166.00	90.50	166.43	9,490.59	4,655.09	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,260.00	91.90	166.90	9,488.62	4,749.07	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,353.00	90.90	164.90	9,486.35	4,842.04	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,447.00	91.40	166.19	9,484.46	4,936.02	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,541.00	91.10	165.94	9,482.41	5,029.99	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,634.00	88.40	163.40	9,482.81	5,122.98	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,725.00	87.20	162.83	9,486.31	5,213.91	LEAM DRILLING SYSTEMS, INC.
3/22/2016	13,815.00	85.60	163.54	9,491.96	5,303.73	LEAM DRILLING SYSTEMS, INC.
3/23/2016	13,904.00	85.90	166.51	9,498.56	5,392.47	LEAM DRILLING SYSTEMS, INC.
3/23/2016	13,995.00	87.50	168.55	9,503.79	5,483.31	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,085.00	88.10	168.76	9,507.25	5,573.25	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,175.00	91.50	169.57	9,507.56	5,663.23	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,266.00	90.10	166.92	9,506.29	5,754.21	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,360.00	89.60	168.83	9,506.54	5,848.21	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,454.00	91.50	171.06	9,505.64	5,942.19	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,547.00	93.10	170.59	9,501.90	6,035.11	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,641.00	93.00	167.76	9,496.90	6,128.97	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,735.00	92.80	166.66	9,492.15	6,222.85	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,829.00	92.10	165.29	9,488.13	6,316.76	LEAM DRILLING SYSTEMS, INC.
3/23/2016	14,923.00	91.40	163.51	9,485.26	6,410.71	LEAM DRILLING SYSTEMS, INC.
3/23/2016	15,017.00	88.90	163.74	9,485.01	6,504.71	LEAM DRILLING SYSTEMS, INC.
3/23/2016	15,110.00	91.70	166.49	9,484.52	6,597.69	LEAM DRILLING SYSTEMS, INC.
3/23/2016	15,204.00	91.10	166.00	9,482.23	6,691.66	LEAM DRILLING SYSTEMS, INC.
3/23/2016	15,298.00	90.20	164.98	9,481.16	6,785.65	LEAM DRILLING SYSTEMS, INC.
3/23/2016	15,392.00	90.10	165.38	9,480.91	6,879.65	LEAM DRILLING SYSTEMS, INC.
3/23/2016	15,485.00	87.80	162.68	9,482.62	6,972.62	LEAM DRILLING SYSTEMS, INC.
3/23/2016	15,579.00	88.70	164.98	9,485.49	7,066.57	LEAM DRILLING SYSTEMS, INC.
3/25/2016	15,673.00	88.50	165.50	9,487.79	7,160.54	LEAM DRILLING SYSTEMS, INC.
3/25/2016	15,767.00	88.20	165.51	9,490.49	7,254.50	LEAM DRILLING SYSTEMS, INC.
3/25/2016	15,860.00	92.20	166.48	9,490.17	7,347.48	LEAM DRILLING SYSTEMS, INC.
3/25/2016	15,954.00	90.40	164.92	9,488.04	7,441.45	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,048.00	91.50	166.25	9,486.48	7,535.43	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,142.00	90.20	164.43	9,485.08	7,629.41	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,235.00	91.70	166.69	9,483.54	7,722.39	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,329.00	91.80	166.53	9,480.67	7,816.35	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,423.00	90.70	166.43	9,478.62	7,910.33	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,517.00	93.50	168.71	9,475.17	8,004.25	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,611.00	90.00	165.23	9,472.30	8,098.17	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,704.00	90.00	165.66	9,472.30	8,191.17	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,798.00	91.60	166.97	9,470.99	8,285.16	LEAM DRILLING SYSTEMS, INC.

### Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 7-43 28H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
3/25/2016	16,892.00	93.10	168.37	9,467.14	8,379.08	LEAM DRILLING SYSTEMS, INC.
3/25/2016	16,986.00	91.90	168.11	9,463.04	8,472.98	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,080.00	92.20	169.39	9,459.67	8,566.92	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,173.00	92.50	169.56	9,455.86	8,659.84	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,173.00	92.50	169.56	9,455.86	8,659.84	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,267.00	91.10	166.45	9,452.91	8,753.78	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,361.00	89.50	163.71	9,452.41	8,847.77	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,454.00	92.00	165.52	9,451.20	8,940.75	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,548.00	93.90	165.13	9,446.36	9,034.62	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,642.00	90.40	164.20	9,442.83	9,128.54	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,736.00	94.40	165.73	9,438.90	9,222.44	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,829.00	93.50	164.27	9,432.49	9,315.21	LEAM DRILLING SYSTEMS, INC.
3/25/2016	17,946.00	90.00	163.10	9,428.92	9,432.14	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,040.00	89.60	165.86	9,429.25	9,526.13	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,134.00	89.80	166.55	9,429.74	9,620.12	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,227.00	89.80	165.41	9,430.06	9,713.12	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,321.00	89.50	165.55	9,430.64	9,807.12	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,415.00	91.70	165.76	9,429.65	9,901.11	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,508.00	94.10	166.05	9,424.95	9,993.98	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,601.00	89.60	165.32	9,421.95	10,086.91	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,695.00	90.30	164.93	9,422.03	10,180.91	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,788.00	92.00	166.54	9,420.16	10,273.88	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,882.00	91.30	166.71	9,417.46	10,367.84	LEAM DRILLING SYSTEMS, INC.
3/25/2016	18,976.00	91.60	165.06	9,415.08	10,461.81	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,069.00	93.40	164.73	9,411.02	10,554.72	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,163.00	93.30	164.98	9,405.53	10,648.56	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,257.00	90.10	165.34	9,402.74	10,742.50	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,351.00	89.30	165.23	9,403.23	10,836.50	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,445.00	89.90	164.99	9,403.89	10,930.50	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,538.00	90.20	164.24	9,403.81	11,023.50	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,632.00	90.20	163.79	9,403.48	11,117.50	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,725.00	91.10	164.88	9,402.42	11,210.49	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,819.00	92.60	165.19	9,399.39	11,304.44	LEAM DRILLING SYSTEMS, INC.
3/25/2016	19,913.00	91.80	164.83	9,395.78	11,398.37	LEAM DRILLING SYSTEMS, INC.
3/25/2016	20,007.00	91.80	163.89	9,392.83	11,492.32	LEAM DRILLING SYSTEMS, INC.
3/25/2016	20,097.00	92.40	163.05	9,389.53	11,582.26	LEAM DRILLING SYSTEMS, INC.
3/25/2016	20,165.00	92.40	163.05	9,386.68	11,650.20	LEAM DRILLING SYSTEMS, INC.