

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

API/UWI 42-461-39971-0000	Property Sub	Operator PIONEER NATURAL RESRC USA, INC	State TEXAS	County UPTON
Field Name SPRABERRY (TREND AREA)		Surface Legal Location 1680' FNL/ 220' FWL, SEC: 18, BLK: 3, AB: A-18U, SVY: UNIVERSITY LANDS		
Spud Date 2/7/2015	TD Date 4/4/2015	Drilling Rig Release Date 4/11/2015	Frac Date	On Production Date
Ground Elevation (ft) 2,670.00	Original KB Elevation (ft) 2,696.00	PBTD (All) (ftKB)	Total Depth (All) (ftKB) Original - 19,400.0	Total Depth All (TVD) (ftKB) Original - 9,955.4
Report #: 1 Daily Operation: 2/1/2015 06:00 - 2/2/2015 06:00				
Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209
Days From Spud (days) -5	Days on Location (days) 1	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal) Rig H & P, 638
Operations Summary MIRU ME engineer, DD trailer and temporary office, String out and start setting and pin skid pacakage together. All WBM,pre-mix tank & OBM containment and frac tanks set.				
Remarks H&P638 & Well Progress: Rig on location 1 days, since rig accepted 0 days, since spud 0 day. Rig NPT: 0 Hours for day 0 Hours for Decemberr. Total NPT: 0 Rig Move Days: 1 Estimated Spud date: 1/6/2015 Estimated pad completion date: 3/31/2015 27% Moved in, 5% Set in, 5% Riggged up.				
Time Log Summary				
Operation	Com			Dur (hr)
MIRU	Waiting on trailers and personell.			3.5
MIRU	Held PJSM with Thomas. Spot last OBM frac tank, finish putting up containment on front side of OBM. Held PJSM withTrend and review JSA Set water,sewer tanks, mud engineer trailer.			2
SAFETY	Held PJSM with H&P, over spotting and rigging up skid package.			0.5
MIRU	Had total of 11 trucks from H&P with skid package 3 flow line stands. String out and start setting skid package Finish R/U mud eng, directional trailers and temporary office, power up same and communication rigged up.			6
MIRU	Waiting on daylight			12
Report #: 2 Daily Operation: 2/2/2015 06:00 - 2/3/2015 06:00				
Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209
Days From Spud (days) -4	Days on Location (days) 2	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal) Rig H & P, 638
Operations Summary MIRU, setting rig components as they come. Performing drill pipe inspection & HWDP.				
Remarks H&P638 & Well Progress: Rig on location 2 days, since rig accepted 0 days, since spud 0 day. Rig NPT: 0 Hours for day 0 Hours for Decemberr. Total NPT: 0 Rig Move Days: 2 Estimated Spud date: 1/6/2015 Estimated pad completion date: 3/31/2015 90% Moved in, 85% Set in, 6% Riggged up.				
Time Log Summary				
Operation	Com			Dur (hr)
MIRU	Waiting on daylight. 1 crane operator arrived o location at 07:30			2
MIRU	Truck pusher arrived 08:45 then James with Driltek. Spoke with truck pusher asked when we would start getting loads in he said about 10:00 hrs. Tandem arrive @ 10:30 hrs. Note: Triumph doing pipe inspection 51 HWDP done, 63 drill pipe done.			3.5
SAFETY	Held PJSM with H&P rig movers & rig hands, Pioneer Rep, Pioneer safety hand and Drill Tech.			0.25
MIRU	Trucks arrived @ 11:30 VFD, #2 pump, fuel tank,Gen lubster, mud tanks. SetVFD & all 3 generators. Offload and set suction tank, shakers, Unload MCC & set. Set 1,2,3 mud pumps. Note: Pioneer Field Supt and Co rep confirmed on right well with GPS.			4
MIRU	Wait on loads to continue arrive. Unload part house, D/W & Center steel, set rig water tank. Crew house, drillers cabin, set crew house. Wire tray for skid package. Set ODS on skid rail. Unload & DS sub, flow stands, BOP's,Mud boat, drill line, HPU and ramps. Set crew house, change house and rig manger house. Total of 20 trucks			3.5
MIRU	Waiting on daylight			10.75

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Well Name: UNIVERSITY 3-19 33H

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

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035209		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig H & P, 638			
-3	3	0.0						

Operations Summary
Waiting on daylight, PJSM, MIRU- Pin derrick, set subs, and centersteel, set skid package for BOPs, set lugging up mud pumps, and doghouse, Raise subs and driller cabin. Wait on Daylight.

Remarks
H&P638 & Well Progress: Rig on location 3 days, since rig accepted 0 days, since spud 0 day.

Rig NPT: 0 Hours for day 0 Hours for Decemberr. Total NPT: 0

Rig Move Days: 3

Estimated Spud date: 1/6/2015 Estimated pad completion date: 3/31/2015

100% Moved in, 88% Set in, 60% Riggged up.

Time Log Summary

Operation	Com	Dur (hr)
MIRU	Waiting on daylight.	0.75
MIRU	Held PJSM with H&P rig hands, Pioneer Rep, rig crew placing fire ext, raising handrails & r/u misc while waiting on H&P rig move crew.	1.5
SAFETY	Held PJSM with H&P rig movers & rig hands, Pioneer Rep, and Drill Tech.	0.25
MIRU	Spot cranes, reviewed EJSA, pin draw works, subs and install cross beams.	1
MIRU	Reviewed EJSA Raise shakers, set degasser, de-silter, drill line spool. Unload 2 conex box's, install drain hoses to center steel.	1.75
MIRU	Bottom section of derrick arrived, BOP handler, set conex. EJSA Start setting skid package for BOP handler, drillers cabin, set water tank, choke and handler.	1.25
MIRU	Set drillers cabin, back bottom section of derrick on mud boat, R/U wire tray, EJSA place HPU on skid, set and pin BOPs. Rig up stand pipe and flow line stands. Remove truck from under bottom section of derrick, spot crown and pin mast together.	3.5
MIRU	Plugging in mud pumps, wire tray etc. Spot pipe wrangler ,R/U up drain hoses, M/U vibrator hose to rig floor , lugging up electrical lines, Hook up hoses to raise sub structure. EJSA and raise sub structure. Set NOV bulk tanks. Pin wish bones on drillers cabin and raise same and pin. Total 5 Trucks for Grand total of 36 Trucks	3.25
MIRU	Waiting on daylight.	10.75

Report #: 4 Daily Operation: 2/4/2015 06:00 - 2/5/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035209		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig H & P, 638			
-2	4	0.0						

Operations Summary
Waiting on daylight, PJSM, MIRU-Continued Setting in Rig and RU. Prepped Derrick, Inspected, and Raised. Began work on Mud Pumps, completed #1 and #2. Connected electrical and Powered up Rig. Moved in Living Quarters.

Remarks
Rig H&P 638 & Well Progress

Move days: 4

Total days on well: 4

Days since SPUD: 0

Rig NPT: 0 Hrs for previous 24 Hours.

100% Moved in, 90% Set in, 65% Riggged up.

Estimated Spud date: 1/6/2015 at 12:00.

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
MIRU	Waiting on daylight.	1.5
SAFETY	Held PJSM with H&P crew and Pioneer Rep.	0.5
MIRU	Dressed Mast, Plugged in Wires between Mast Sections, raised Tubing and Pipe Boards and raised Boom Pole. Set Walkways for PDS, Repaired String up Cable, and installed Flow Line. RD No.1 craned. Connected MRC hoses and string Block. Drove ground rods and began Bleeding Procedure. Replaced leaking O-ring on DS MRC. Worked on Mud Pumps. Started MRC Bleeding Procedure on DS MRC. Installed SALA Blocks on Derrick Board. Perform Pre-raise Inspection on Mast. HPJSM and Raise Mast. Concurrently: Received 13 3/8", 54.5#, J-55, BTC casing. Clean, Drift, and Strap casing. Moved Living Quarters, Move Conex box, and transferred Diesel from Pembroke 28 10H.	10

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Time Log Summary

Operation	Com	Dur (hr)
MIRU	Drove remaining Ground Rods, Extended Service Arm on Top Dog House. Connected all Electrical Wires on Rig Floor. Spooled Air Hoist line. Powered Up Generators. Raised Separator. Pulled and replace all seats on 3 Mud Pumps, Connected Vibrating Hoses, installed Liners in #1 and #2 Mud Pumps. RU Pipe Wrangler. Unlocked and Untagged electrical RU 4, 4x4 pumps in Backyard, set Drive-overs, and Ran hoses to Mud Pits and Mixing tank. Currently running 1 Generator. Electrician called out to Trouble Shoot Generators due to intermittently cutting off.	12

Report #: 5 Daily Operation: 2/5/2015 06:00 - 2/6/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035209
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Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
-1	5	0.0		8.40	H & P, 638

Operations Summary

Finished Setting in Rig. Continued RU and working on Mud Pumps preparing to Spud. Spooled up Draw Works, Unpinned and Calibrated Top Drive. Received 5" Drill pipe.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 5

Days since SPUD: 0

Rig NPT: 0 Hrs for previous 24 Hours.

100% Moved in, 100% Set in, 85% Rigged up.

Estimated Spud date: 1/6/2015 at 15:00.

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM on rigging up HP 638.	0.5
MIRU	RU Rig Floor. Set in place Skid Beams and Rig Floor Drillers Side Stairs. Tie in HP Vibrator Hoses and RU Red Iron for Separator. Set Casing Racks and load racks with 13-3/8" Surface Casing. Set Bulk Tanks. Dress Rig Floor, RU Gas Buster, MU Bumper Hoses on Mud Pumps, Dress out Flow Line and Flow Manifold. RU Pit hoses. Push HPU Skid and pin Push Bars. RU Skid beams around PDS, and install Guides. RU Skid Cylinders and RU stairs. Continued working on Mud Pumps. Spooled up Drilling Line on Draw Works and wrapped Drilling Line around Deadline Anchor. MU and Torque anchor and secondary Clamp. Unpin Bottom Poles and level Top Drive. Unpin Top Drive and PU Rig Floor Tools. RU Pipe Wrangler, RU water lines to floor. RU Bleed off Line, Mud Bucket Line, and Fill up Line. Set in Super Sucker and install Handrails on Flow Line Stand. RU at 90% Complete. Concurrently offload 5" 19.50 PPF Drill Pipe. Concurrently waiting on replacement satellite antenna to communicate with Top Drive and Draw Works before running out lines. Concurrently installing and testing Rig Intercoms and rigging up MD Totco Rig Sense. **running 1 Generator**	23.5

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Well Name: UNIVERSITY 3-19 33H

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

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
0	6	146.0	146.0	8.35	H & P, 638	

Operations Summary

Finished RU and made Pre-Spud Rig Inspection. LO, Strapped BHA, and moved Bit, Bit Sub, and Stabilizer to the Rig Floor. Had Weekly Safety Stand Down. MU 17 1/2" bit and BHA #1. Tagged at 128'. Pump Pressure Test Failed. Made Repairs to the Mud Pumps.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 6

Days since SPUD: 0

TRRC Notification to Amy on 2-6-2015 @ 15:20 Hrs. Job No.1123

Rig NPT: 0 Hrs for previous 24 Hours.

100% Moved in, 100% Set in, 100% Rigged up.

Estimated Spud date: 1/6/2015 at 15:00.

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
MIRU	RU Desander and PVC transfer line to Reserve Pit. RU Water Lines. Fill Mud Pits with FW. Hammer all unions on Mud Pits and installed End Caps on lines. Prime and check run Mud Pump No.1 and No.2. Set Linebackers and run Power Lines. Swap Camp from Generators to Rig Power. Installed Standpipe pressure sensor cord. Installed trough at Shale Shaker dump. Concurrently performing Pre-Spud inspection of Rig, ok. Running 1 Generator	6
MIRU	RU Company Equipment. Mathena RU Choke and Panel. RU Vacuum System. Concurrently weld Scoop Guide on Conductor to prevent Casing Collars from hitting the top of the conductor while running casing. Fabricate and installed walkway from premix pit to Frac Tank Storage. Running 1 Generator	2
BHA_HAN DLING	Move Bit, WBS, and Bit Sub BFF, and Bit Breaker to Pipe Wrangler. Measure and Caliper BHA. Concurrently spotted Schlumberger Cement Silo. Run 1 Generator.	2
BHA_HAN DLING	Move Bit, Bit Breaker, Bit Sub, Stabilizer to Rig Floor. RU wireline. Running 1 Generator	2
SAFETY	Safety stand down with all personnel on location. Discussed Falling Objects awareness, and how to prevent. Also Discussed Confined space work and permits. Discussed the importance of reporting any accident or incident immediately. Running 1 Generator	0.5
BHA_HAN DLING	Pick up and make up 1-8" DC's, 17 1/4" stabilizer., MU bit sub with Float and Baffle Plate, make up Security 17 1/2" SF65 bit with TFA of .835. Make up 5" HWDP for Kelly joint. Tagged at 128'. Line up Pumps, Check Valve alignment, Fill Lines, Fill Conductor, and Pressure Test to 2000 psi. Running 1 Generator	3.5

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Time Log Summary		
Operation	Com	Dur (hr)
U_RIG_OTR	Vibrator Hose leaking on #2 mud pump, tighten hose. Pressure test on Mud Pump failed, leaked off on 2000 psi test. Changed Cap Gaskets and Discharge Valve Guides on #1 and #2 pumps. Torque Thread Rings on #1 and #2 pumps to proper Torque of 900 ft lbs. Replaced damaged Valve Guide Retainer on #1 and #2 pumps. Observed pinching of Valve Guide Gasket Assembly. Broke Torque Multiplier adapter and had to get a replacement from another rig. Re-test to 2000 psi. Test Failed. Observed leak at Valve Covers. Bled down to 800 psi. Running 1 Generator	8

Report #: 7 Daily Operation: 2/7/2015 06:00 - 2/8/2015 06:00						
Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
1	7	765.0	765.0	8.45	H & P, 638	

Operations Summary
Finished making repairs to the Mud Pumps. Spud Well and Drill the Surface Interval from 146' to 765'. Circulated a Sweep and ran a Gyro Survey. Circulated a Sweep and TOOH LD Bit, WBS, and Bit Sub. RU and Ran 13 3/8" casing to 765'. Circulate Casing and RU to Cement.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 7
Days since SPUD: 0.85

Rig NP: 3.75 Hrs for previous 24 Hours. 7.75 Total.

Completion Percentage: Surface- 100%, Intermediate - 0%, Coring - 0%, Curve- 0%, Lateral -0%

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Spud date: 2/7/2015 at 09:30.

Estimated Pad Completion Date 3/31/2015.

TRRC Notification to Amy on 2-6-2015 @ 15:20 Hrs. Job No.1123

Time Log Summary		
Operation	Com	Dur (hr)
U_RIG	Redress Pumps No.1 and No.2 with Valve Cover Gaskets and Discharge Valve Guides. Test Pumps 1 and 2 to 3000 PSI. Good Test. Running 1 Generator	2.75
CIRC	Circulate and clean out conductor from 128' to 146', WOB 5K, 500 GPM, 60 TD-RPM, No Mud Losses Reported. Run 1 Generator.	0.75
DRL_ROT	Spud the University 3-19 Well 33H @ 09:30 Hours on 2/7/2015. Rotate 55', 27.5 FPH, WOB 15K, GPM 500-, SPP 380, TD-RPM 60, bury Drill Collar and WBS below the shoe. No Mud Losses Reported. Run 2 Generators.	2
U_RIG	Pickup 30' and repair Liner Gasket Leak on No.1 Pump and Discharge Valve Cover Gasket on No.2 Pump.. Run 2 Generators.	1
DRL_ROT	Rotate 93' at 62 FPH, WOB 20K, GPM 650, SPP 550, TD-RPM 100. No Mud Losses Reported. Run 2 Generators.	1.5
RIG_SVC	Lubricate Rig and Top Drive.	0.5

Time Log Summary		
Operation	Com	Dur (hr)
SRVY	Survey @ 292', 0.10 Degree Concurrently perform Rig Service, Top Drive and Drawworks. No Mud Losses Reported. Run 2 Generators.	0.5
DRL_ROT	Rotate 220' at 125.7 FPH, WOB 20K, GPM 650, SPP 725, TD-RPM 100. No Mud Losses Reported. Run 2 Generators.	1.75
SRVY	Survey @ 506', 0.21 Degree No Mud Losses Reported. Run 2 Generators.	0.25
DRL_ROT	Rotate 255' at 85 FPH, WOB 20K, GPM 700, SPP 900, TD-RPM 100. No Mud Losses Reported. Run 2 Generators.	3
CIRC	Pump 50 barrel sweep and Circulate Surface to Surface. **Running 2 Generators**	0.25
SRVY	Break off Stand and place in the Mouse Hole. HPJSM with Gyro Data and RU to and Gyro on Wire Line. **Running 2 Generators**	1
CIRC	Pump 30 barrel sweep and Circulate Surface to Surface. **Running 2 Generators**	0.5
TOOH	TOOH, rack HWDP and 8" Collars in the Derrick. **Running 2 Generators**	1
BHA_HAN DLING	Break 17.5" Bit. LD WBS, Bit Sub, and Bit. **Running 2 Generators**	1
CASE	Clear Rig Floor of tools. Change out bales and elevators. PJSM and RU to run 13-3/8" Casing. **Running 2 Generators**	1.25
CASE	PJSM, Make up Shoe, 1 joint, Float Collar, & thread lock all connections, run 18 joints 13 3/8" 54.5#, J-55, BTC Casing to 765', install centralizers 10' up on first joint, 5' above float collar and 1 every 4 joints up 200' from surface. **Running 1 Generators**	3.5
CIRC	RD Casing Equipment and RU Cement Head. Circulate at 8 bbl/min at 300 psi 1 casing capacity with Full returns. **Running 1 Generators**	0.5
CMT	PJSM with Schlumberger, install Top Plug (Wittiness by PNR), RU Cement Iron. Concurrently run 1" Pipe for Top Out. **Running 1 Generators**	1

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

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035209		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
2	8	765.0	765.0	8.50	H & P, 638			

Operations Summary
Circulate Casing and RU to Cement. Cement 13 3/8" casing and Top out with 100 sack at 14.8 ppg. Cut Casing and Install Well Head. Installed 13-5/8" 5M x 13-5/8" 10M DSA, Installed 13-5/8" x 52" L Spacer Spool. Dress BOP on the Stump. Installed Rams in BOP. (UPR, BR, LPR) Changed all Bonnet Seal Rings and torqued Bonnets. Install HCR Valves and Manual Valves for Choke and Kill lines. Moved BOP to Wrangler and install 13-5/8" BOP onto the well. Test Circulating system back to the Mud Pumps. Test Top Drive and Choke Manifold. Test BOP.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 8
Days since SPUD: 1.85

Rig NP: 3.75 Hrs for previous 24 Hours. 7.75 Total.

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

Percentage Rotate 0% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
CMT	PJSM with Schlumberger and Rig Crews. RU Schlumberger. Cement 13-3/8" 54.5 PPF, J-55, BTC surface casing as follows: Flush lines with 20 bbls FW. Test lines to 3,500 psi. Schlumberger cemented 13 3/8" 54.5 PPF J-55 BTC Surface Casing as follows: 30 bbls 8.34 lb/gal of FW Spacer, Pump Slurry: 274 Barrels, 884 Sacks, 13.6 ppg (Class C Cement, 94 Lb/Sk of Blend) of Tail Cement, Yield 1.70 ft ³ /Sk, Mix water 8.871 Gal/Sk, 3% BWOW D020 Extender, 2% BWOB S001 CACL2, 1.70 ft ³ /sk yield, 8.871 gal/sk mixing H2O. PNR representatives observed Top Plug being dropped. Displace cement with 112 bbls of 8.34 ppg fresh water. Displaced final 20 bbl at 2 bpm, final circulating pressure at 202 psi, plug down at 09:13am, 2/8/2015, bumped plug with 966 psi, 700 psi over final lift pressure. Held pressure for 5 minutes. Released pressure @ 09:18 Hours, Bled Back 0.5 bbls. Floats held. 30 bbls - 270 psi, 40 bbl - 286 psi, 50 bbls - 314 psi, 60 bbls - 334 psi, 70 bbls - 341 psi, 80 bbls - 356, 90 bbls - 386 psi at 6.5 bpm, 100 bbls - 198 psi, 212 bbls - 202 psi at 2.3 bpm Circulated (146 bbls) cement back to surface. Full Returns during cement operations. Shoe @ 765', Shoe Track 45.63', Float Collar @ 719.4' Full returns throughout cement job. PNR representatives monitored returns in cellar.	3.5
CMT	Top out with 100 Sacks of Class C Cement mixed @ 14.8 ppg. Cement at Surface. Monitor cement level, full, Flush cement lines with Fresh Water. LD 1" Cement String. Full returns, 100 sxs Cement circulated to surface. Cement standing at GL.	1
CMT	Flush lines with FW into cellar and pumped flush water to reserve pit with cellar pump. Pulled Cellar Pumps and Mousehole. RD Schlumberger Cementing, Plug Container and Lines.	1.5
NU_TEST	Slack off on casing and rough cut and lay down landing joint. Make dress cut on conductor pipe and 13-3/8" casing. Install and level wellhead. PNR Rep check wellhead and orientation. Weld Multi Bowl wellhead per program and tested to 565 psi, ok. Concurrently opened doors on BOP and installed Upper Rams, Blind Rams, and Lower Pipe Rams in BOP. Hot Work Permit issued.	4

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Time Log Summary

Operation	Com	Dur (hr)
NU_TEST	Installed 13-5/8" 5M x 13-5/8" 10M DSA, Installed 13-5/8" x 52" L Spacer Spool. Continue to dress BOP on the Stump. Installed Rams in BOP. (UPR, BR, LPR) Changed all Bonnet Seal Rings and torqued Bonnets. Install HCR Valves and Manual Valves for Choke and Kill lines. Moved BOP to Wrangler and install 13-5/8" BOP onto the well. Torque BOP Stack and Spacer Spool.	9.5
NU_TEST	PJSM. Pressure test circulating system from standpipe to mud pumps to 4500 PSI. Test Top Drive to 250 PSI low/3500 PSI high. Test Choke Manifold to 250 PSI low/3500 PSI high. All good tests. Open Casing Valve, installed Test Plug and Pressure test BOP and Choke line to 250/3500 PSI and hold for 5 minutes. Run 1 Generator.	4.5

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

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
3	9	1,500.0	1,500.0	8.50	H & P, 638

Operations Summary

Finished Testing BOP, Test Casing, Test Accumulator, and Finish NU Orbit Valve to Flow Line. Installed hoses on Flow Line and tightened up blots on 3 Flow Line sections. Installed Wear Bushing. MU Directional BHA with Ulterra 716M bit. TIH to 717'. Drill out Cement and Shoe Track from 717' to 765'. Drill from 765' to 1,500'.

Remarks

Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 9
Days since SPUD: 2.85

Rig NP: 3.75 Hrs for previous 24 Hours. 7.75 Total.

Completion Percentage: Surface- 100%, Intermediate - 9%, Curve- 0%, Lateral -0%

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
NU_TEST	Pulled Test Plug and closed Casing Valve. Tested Casing to 1000 psi for 30 minutes, ok. Bled pressure and rig down from test.	2
NU_TEST	Install hoses and air lines on Flo-Line and tightened bolts on 3 Flo-Line Sections to the Shale Shakers. Transfer crossovers for Weatherford to the Rig Floor. Installed Trip Nipple in the Rotating Head. Installed and pinned in place the Wear Bushing. Rigup Reserve Pit Pump to Shaker Trough. Rigup Dump Lines fro Desilter and Sand Trap to Reserve pit. Rig lines to Gas Buster. Concurrently changeout Coupling for Fuel Pump on diesel transfer line to the rig fuel tank.	7
BHA_HAN DLING	PJSM, PU 12-1/4" Weatherford BHA, PU 11.25" QLE7840 Motor, 1.5°, 6.9' Bit to Bend, 0.16 RPG, 11.75" Stabilizer, 8" UBHO	1
RIG_SVC	Rig Service, Test Crown Saver and change dies in ST80.	0.5
BHA_HAN DLING	PU 8" NMDC-TC, 8" NMDC. Installed and shallow tested MWD, ok. MU cross over and TIH. Tagged cement @ 717'. Concurrently Transporting Pioneer owned OBM to location. Frac tanks have been equipped with the Overflow Warning System and JSA/Transfer sheets have been filled out.	5
TST_DO_FI T	Drill out Cement and Shoe Track from 717' to 765' with 550 GPM, 40 TD-RPM, 5 WOB. Concurrently Pump Top Seal in Cellar. Concurrently Transporting Pioneer owned OBM to location. Frac tanks have been equipped with the Overflow Warning System and JSA/Transfer sheets have been filled out.	1.5
DRL_ROT	Rotate 114' at 114 FPH. 600-650 GPM, 15-25 WOB, 50-60 TD-RPM, 96-104 MM-RPM, 250 DIFF, 1350 SPP. Note: Experienced Intermittent problems with Totco tracking the Bit Depth. Totco Service personel on location. Currently Running 2 Generators Concurrently Transporting Pioneer owned OBM to location. Frac tanks have been equipped with the Overflow Warning System and JSA/Transfer sheets have been filled out.	1

Drilling & Completion Summary - Ascending

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Time Log Summary		
Operation	Com	Dur (hr)
U_SCEQ	Relog Gamma to wipe in 58' of lost Data due to Totco Tracking problem. Concurrently Transporting Pioneer owned OBM to location. Frac tanks have been equipped with the Overflow Warning System and JSA/Transfer sheets have been filled out.	1
DRL_ROT	Rotate 93' at 372 FPH. 650 GPM, 15-25 WOB, 60 TD-RPM,104 MM-RPM, 500 DIFF, 1850 SPP. Currently Running 2 Generators Concurrently Transporting Pioneer owned OBM to location. Frac tanks have been equipped with the Overflow Warning System and JSA/Transfer sheets have been filled out.	0.25
U_MWD	Re Log Gamma due to noise interference. Concurrently Transporting Pioneer owned OBM to location. Frac tanks have been equipped with the Overflow Warning System and JSA/Transfer sheets have been filled out.	0.5
DRL_ROT	Rotate 182' at 182FPH. 650 GPM, 15-25 WOB, 60-80 TD-RPM,104 MM-RPM, 500 DIFF, 1950 SPP. Currently Running 2 Generators Concurrently Transporting Pioneer owned OBM to location. Frac tanks have been equipped with the Overflow Warning System and JSA/Transfer sheets have been filled out.	1
U_SEQ	Relog Gamma due to Totco Tracking problem. Totco Technician is on location to correct the Issue. Concurrently Transporting Pioneer owned OBM to location. Frac tanks have been equipped with the Overflow Warning System and JSA/Transfer sheets have been filled out.	0.75
DRL_ROT	Rotate 89' at 178FPH. 650 GPM, 15-25 WOB, 60-80 TD-RPM,104 MM-RPM, 500 DIFF, 1950 SPP. Currently Running 2 Generators	0.5
U_MWD	Trouble shoot MWD. Flat line while pumping up Survey. Recycle Mud Pumps and adjust GPM.	0.25
DRL_ROT	Rotate 257' at 146.9FPH. 650 GPM, 20-30 WOB, 80-90 TD-RPM,104 MM-RPM, 550-630 DIFF, 2200 SPP. Currently Running 2 Generators	1.75

Report #: 10 Daily Operation: 2/10/2015 06:00 - 2/11/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
4	10	1,842.0	1,842.0	10.00	H & P, 638

Operations Summary

Drill from 1,500' to 1842'. Lost 50K String Weight and 1800 PSI Pump Pressure. String parted. Circulate hole clean. TOOH and LD 10' of parted Jars. MU Overshot with 6.25" grapple and TIH to TOF at 1249'. Unable to Latch Fish. TOOH and PU 6.50" grapple and TIH to TOF at 1249'. Successfully latch Fish. TOOH with Fish from 1249' to Surface. Break overshot and LD Fish. LD Fishing Tools and TOOH to Inspect Bit, Test Motor, and Change MWD Tools.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 10

Days since SPUD: 3.85

Rig NP: 0 Hrs for previous 24 Hours. 7.75 Total.

Completion Percentage: Surface- 100%, Intermediate - 15%, Curve- 0%, Lateral -0%

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate 342' at 137 FPH. 700 GPM, 30K-40K WOB, 80-90 TD-RPM,104 MM-RPM, 550-630 DIFF, 2200 SPP. Currently Running 2 Generators.	2.5
U_SCEQ	Lost 50K String Weight and 1800 PSI Pump Pressure. String parted. Circulate hole clean. Shakers clean, spotted 50 barrels Hi-Vis pill.	1.5
U_SCEQ	POOH with drill pipe, 23 joints 5" HWDP, and 10' of Drilling Jar. TOF at 1249'. Fish in Hole 12-1/4" Bit, Motor, Stabilizer, UBHO, NMDC, NMDC, NMDC, XO, 9 - 8" Drill Collars, XO, 6 - 5" HWDP, 22' Section of Drilling Jar, total of 593' Fish in Hole.	1.5
U_SCEQ	LD 10' Fish, (Upper Section Drilling Jar). LD 2 joints 5" HWDP. Measure and Caliper 6 - 8" Drill Collars and Fishing Tools.	3

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
U_SCEQ	Make up 10.625" Overshot dressed with 6.250" Grapple, Bumper Sub, Oil Jar, XO, 4 - 8" Drill Collars, XO, Accelerator Jar, XO, 169.74'.	4
U_SCEQ	TIH to 1249', TOF. Circulating with 25 SPM, 98 GPM, 47 PSI, pressure increased to 200 PSI, at 400 PSI shut down pump and picked up to 1239'. No increase in string weight noted. Attempted to latch fish 5 times without success.	0.5
U_SCEQ	POOH with overshot, backed off Cut Lip Guide and removed Mill Control. Measure markings on Mill Control at 6-1/2".	2
U_SCEQ	Wait on 6.50" Basket Grapple.	1
U_SCEQ	Make up 10.625" Overshot dressed with 6.50" Grapple, Bumper Sub, Oil Jar, XO, 4 - 8" Drill Collars, XO, Accelerator Jar, XO, 172.74'. TIH to TOF at 1249'.	2.5
U_SCEQ	Circulating with 26 SPM, 98 GPM, 55 PSI, pressure increased to 300 PSI, picked up to 1239'. PU Wt 148K, which was 47K over TSW of 101K.	0.25
U_SCEQ	POOH with Fish monitoring ST Wt. Fish Recovered. LD Remainder of Jars and LD Fishing Tools. Monitoring well on trip tank.	4
U_SCEQ	TOOH with BHA. Break Bit and Inspect. Test Motor. Change out MWD Tools. Running 2 Generators	1.25

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

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035209
Days From Spud (days) 5	Days on Location (days) 11	End Depth (ftKB) 3,350.0
	End Depth (TVD) (ftKB) 3,349.9	Dens Last Mud (lb/gal) 10.35
		Rig H & P, 638

Operations Summary

Finish Inspecting Bit, testing motor, and changing out MWD Tools. TIH to 1842'. Drill Intermediate hole section from 1842' to 3350' (1,508').

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 11

Days since SPUD: 4.85

Rig NP: 0 Hrs for previous 24 Hours. 7.75 Total.

Completion Percentage: Surface- 100%, Intermediate - 33%, Curve- 0%, Lateral -0%

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
U_SCEQ	PJSM, Change out MWD Tools. Drain Motor and breakout Ulterra 12.25" Bit. Evaluate bit, ok. Running 2 Generators	1
U_SCEQ	Changeout Battery and Pulsar. Program MWD Running 2 Generators	1.5
U_SCEQ	PU MWD Tool, shallow test tools, and MU Bit. Running 2 Generators	1
U_SEQ	TIH with BHA to 381'. Running 2 Generators	1
U_SCEQ	LD excess 8" Drill Collars from Derrick. Running 2 Generators	0.5
U_SCEQ	TIH from 381' to 1685' Running 2 Generators	1.5
WASH_RE AM	Wash and Ream from 1685' to 1842'. Running 2 Generators	0.5
DRL_ROT	Rotate 128' at 102 FPH, WOB 30K, GPM 700, Torque 5K-10K, SPP 2600. Running 2 Generators	1.25
SRVY	Survey, Detection Problems. Running 2 Generators.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate 120' at 96 FPH, WOB 20K-30K, GPM 700, Torque 5K-10K, SPP 2600., TD-RPM 40, MM-RPM 120, DIFF 550 Running 2 Generators	1.25
SAFETY	Check for loose bolts on the Top Drive. Rack 1 stand back in the derrick and service Top Drive. Running 2 Generators.	0.5
DRL_ROT	Rotate 1,260' at 93 FPH, WOB 20K-35K, GPM 700-800, Torque 5K-12K, SPP 2600-3100., TD-RPM 40-70, MM-RPM 120-137, DIFF 550 Instantaneous ROP continuously changing between 50 FPH to 250 FPH. High fluctuations in drilling torque and bit weights. Decrease/Increase WOB and TD-RPM parameters to compensate for swings. Running 3 Generators	13.5

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

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
6	12	4,750.0	4,749.8	8.90	H & P, 638

Operations Summary
Drill Intermediate hole section from 3350' to 4750'. Displace to 8.7 PPG WBM at 4,000'.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 12
Days since SPUD: 5.85

Rig NP: 1.5 Hrs for previous 24 Hours. 9.25 Total.

Completion Percentage: Surface- 100%, Intermediate - 51%, Curve- 0%, Lateral -0%

Percentage Rotate 82% (Hrs) - Percentage Slide 18% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate 136' at 54.4 FPH, WOB 35K, GPM 750, Torque 8K-12K, SPP 2600., TD-RPM 40-70, MM-RPM 120-137, DIFF 550 Running 3 Generators	2.5
DRL_SLID E	Slide 10' at 40 FPH, 7K WOB, 750 GPM, MM-RPM 120, SPP 2300, DIFF 125, TF 240M Running 3 Generators.	0.25
DRL_ROT	Rotate 84' at 67.2 FPH, WOB 35K, GPM 750, Torque 8K-12K, SPP 2600., TD-RPM 75, MM-RPM 120-137, DIFF 550 Running 3 Generators	1.25
DRL_SLID E	Slide 25' at 25 FPH, 7K WOB, 750 GPM, MM-RPM 120, SPP 2300, DIFF 125, TF 240M Running 3 Generators.	1
DRL_ROT	Rotate 174' at 69.6 FPH, WOB 35K, GPM 750, Torque 8K-12K, SPP 2600., TD-RPM 75, MM-RPM 120-137, DIFF 550 Running 3 Generators	2.5
DRL_SLID E	Slide 22' at 22 FPH, 7K WOB, 750 GPM, MM-RPM 120, SPP 2300, DIFF 125, TF 240M Running 3 Generators.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate 834' at 69.5 FPH, WOB 35K, GPM 750-800, Torque 8K-15K, SPP 2600-3300, TD-RPM 75-80, MM-RPM 120-137, DIFF 550. At 4,000' displaced brine mud system to a pre-hydrated Gel System while drilling. Transfer pumps unable to keep up with 750 GPM. Reduce parameters to 500 GPM, 25 WOB, 1550 SPP, 75 TD-RPM, 140 MM-RPM. Conitue drilling with reduced parameters until normal circulation was resumed. Drilling with reduced parameters for 1.5 hrs, 35' drilled. Displacement complete at 4035'. Took SPR after displacement. Dump and dilute active pits to maintain MW below 9.0 PPG and managing rising chloride levels. Displacement indicated 50% washout. At 20:00 NOV Rig Sense not properly reading PVT. NOV technician called out, at report time (0600) technical not on location and issue continues. Running 3 Generators	12
DRL_SLID E	Slide 21' at 42 FPH, 200 WOB, 800 GPM, MM-RPM 136, SPP 3000, DIFF 250, TF 30R Running 3 Generators.	0.5
U_RIG	Swab on pump #1 leaking. Unable to turn switch to pump #3 due to Omron rig software not supporting 3 pumps. While replacing leaking swab, update software and attempt to turn on pump #3. Pump unable to get prime. Conitue to work on swab. Concurrently circulate off bottom with 400 GPM, 40 TD-RPM and slowly reciprocating drill string. Running on 3 generators.	1.5
DRL_ROT	Rotate 104' at 69.3 FPH, WOB 35K, GPM 800, Torque 8K-15K, SPP 3300, TD-RPM 80, MM-RPM 136, DIFF 550. Dump and dilute active pits to maintain MW below 9.0 PPG and managing rising chloride levels. Found Pump #3 losing prime through cap gasket. Fix gasket and test pump to ensure porper operation. Running 3 Generators	1.5

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

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
7	13	6,388.0	6,387.6	8.90	H & P, 638

Operations Summary

Drill, Slide, Survey, Intermediate Hole Section from 4750' to 6388'.

Remarks

Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 13
Days since SPUD: 6.85

Rig NP: 0.5 Hrs for previous 24 Hours. 9.75 Total for Feb.

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

Percentage Rotate 97% (Hrs) - Percentage Slide 3% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate 815' at 70.8 FPH, WOB 35K, GPM 800, Torque 8K-15K, SPP 3200, TD-RPM 80, MM-RPM 136, DIFF 550. Dump and dilute active pits to maintain MW at or below 9.0 PPG and managing chloride levels. MW 9.1 In/Out. Unable to bring pump #3 online due to it unable to maintain prime. Showing 800 psi pressure drop when pumping at drilling parameters. Running 3 Generators	11.5
RIG_SVC	Rig service	0.5

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate 44' at 88 FPH, WOB 35K, GPM 800, Torque 8K-15K, SPP 3200, TD-RPM 80, MM-RPM 136, DIFF 550. Dump and dilute active pits to maintain MW at or below 9.0 PPG and managing chloride levels. MW 9.1 In/Out. Conitnue to work on pump #3. Running 3 Generators	0.5
U_RIG	Pump #1 liner wash hose leaking. Pump #3 not in working order. Replace leaking hose while circulating 10' off bottom with 400 GPM, 40 TD-RPM and slowly reciprocating string.	0.25
DRL_ROT	Rotate 151' at 67.1 FPH, WOB 35K, GPM 800, Torque 8K-15K, SPP 3200, TD-RPM 80, MM-RPM 136, DIFF 550. Dump and dilute active pits to maintain MW at or below 9.0 PPG and managing chloride levels. MW 9.1 In/Out. Conitnue to work on pump #3. Running 3 Generators	2.25
U_RIG	Leaking cap gasket on pump #1. Change out same while circulating 10' off bottom with 400 GPM, 40 TD-RPM and slowly reciprocating string.	0.25
DRL_ROT	Rotate 568' at 73 FPH, WOB 35K, GPM 800, Torque 8K-15K, SPP 3200, TD-RPM 80, MM-RPM 136, DIFF 550. Dump and dilute active pits to maintain MW at or below 9.0 PPG and managing chloride levels. MW 8.8 PPG In 9.0 PPG Out. Continue to work on pump #3. H&P Field Superintendent on location to assist with troubleshooting. Pump #3 online and working at 0330. Found discharge valve rubbers miss aligned. Running 3 Generators	7.75
DRL_SLID E	Slide 20' at 40 FPH, 200 WOB, 800 GPM, MM-RPM 136, SPP 3000, DIFF 250, TF 240 Running 3 Generators.	0.5
DRL_ROT	Rotate 40' at 80 FPH, WOB 35K, GPM 800, Torque 8K-15K, SPP 3200, TD-RPM 80, MM-RPM 136, DIFF 550. Dump and dilute active pits to maintain MW at or below 9.0 PPG and managing chloride levels. MW 8.8 PPG In 9.0 PPG Out. Running 3 Generators	0.5

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

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
8	14	7,135.0	7,134.6	8.65	H & P, 638

Operations Summary

Drill, Slide, Survey, Intermediate Hole Section from 6388' to 7135'. Instantaneous ROP trending down to below 20 FPH. SLM-OOH to change bit. LD motor and bit. Pull wear bushing and jet well head. PU new directional BHA and surface test. TIH to 600'

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 14

Days since SPUD: 7.85

Rig NP: 0 Hrs for previous 24 Hours. 9.75 Total for Feb.

Completion Percentage: Surface- 100%, Intermediate - 83%, Curve- 0%, Lateral -0%

Percentage Rotate 92% (Hrs) - Percentage Slide 8% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate 222' at 88.8 FPH, WOB 35K, GPM 800, Torque 8K-15K, SPP 3200, TD-RPM 80, MM-RPM 136, DIFF 550. Dump and dilute active pits to maintain MW at or below 9.0 PPG and managing chloride levels. MW 8.8 PPG In 9.0 PPG Out. Running 3 Generators	2.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide 22' at 22 FPH, TF-280M WOB 25K, GPM 800, Torque 8K-15K, SPP 2900, MM-RPM 136, DIFF 250. Dump and dilute active pits to maintain MW at or below 9.0 PPG and managing chloride levels. MW 8.8 PPG In 9.0 PPG Out. Running 3 Generators	1
DRL_ROT	Rotate 503' at 55.8 FPH, WOB 35-45K, GPM 675, Torque 8K-15K, SPP 3200, TD-RPM 80, MM-RPM 115, DIFF 125-550. From 1200 to 1830 Instantaneous ROP, DIFF, and drilling torque trending down despite no change in WOB or bit RPM. Instantaneous dropped to below 20 FPH, DIFF 125, max TORQ 7K. After discussing with Drilling Superintendent and Drilling Engineer, decide to TOO H to change out bit. Take on bottom survey. Dump and dilute active pits to maintain MW at or below 9.0 PPG and managing chloride levels. MW 8.8 PPG In 9.0 PPG Out. Running 3 Generators	9
CIRC	Sweep hole with 40 BBL high visc pill and circulate out. Repeat sweep. Circulate with 750 GPM, 80 TD-RPM and reciprocating drill string. Shakers clean. Flow check - well static. Pump slug.	2.5
TOOH	SLM-OOH from 7,130' to 100' (top of DD/MWD tools). No tight spots observed. Flow check at 765' (casing shoe) - well static. No correction needed in hole depth. Monitor well on trip tanks, well taking proper displacement.	3
BHA_HAN DLING	Break off top monel DC. Drain motor. LD bit and motor. Bit grade: 6-4-CR-C-X-3-BT-PR	2
WEARBUS HING	Pull wear bushing and jet well head. Reinstall wear bushing. Witnessed by PNR representative.	1
BHA_HAN DLING	PU new 12-1/4" Ultera 716M bit, mud motor, MWD tool and TIH to shallow test. Good test. Monitor well on trip tanks, well static.	1.5
TIH	TIH from 101' to 600'. LD 6-1/2" jars and PU new 7" jars. Monitor well on trip tanks, well returning proper displacement.	1.5

Report #: 15 Daily Operation: 2/15/2015 06:00 - 2/16/2015 06:00						
Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035209
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
9	15	7,135.0	7,134.6	9.00	H & P, 638	

Operations Summary
Continue to TIH to bottom. No tight spots observed. Continue drilling intermediate wellbore from 7,135' to 8,500'.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 15
Days since SPUD: 8.85

Rig NP: 0 Hrs for previous 24 Hours. 9.75 Total for Feb.

Completion Percentage: Surface- 100%, Intermediate - 98%, Curve- 0%, Lateral -0%

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary		
Operation	Com	Dur (hr)
BHA_HAN DLING	TIH with BHA from 600' to 709'. Monitor well on trip tanks, well returning proper displacement. Run 2 Generators.	0.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
TIH	TIH with Drill String from 709' to 6585'. Fill Drill String every 30 stands. Monitor well on trip tanks, well returning proper displacement. Run 2 Generators.	2.5
WASH_RE AM	Fill Drill String and Wash and Ream from 6585' to 7135', 0K-5K WOB, 750 GPM, 100 TD-RPM, Torque 5K-14K. Check Shot Surveys. Run 3 Generators.	0.75
DRL_ROT	Rotate 1365' at 66.5 FPH, WOB 30-35K, GPM 750-650 GPM, SPP 3375-2600, TD-RPM 80-100, MM-RPM 104-120, DIFF 350-550. Pumping LCM Sweeps every stand drilled and dumping Sand Trap. At 7475' lost 53.8 barrels mud, at 7477' lost 35.9 barrels mud. Lower pump rate to 650 GPM. At 7503' lost 15.5 barrels mud for total loss of 105.2 barrels mud. Continue drilling and sweeping hole with LCM sweeps. Step up GPM to normal drilling parameters. No further losses observed Recovered black fluid at the shakers weighing 9.3 ppg from bottoms up at 7503'. Dumped fluid to reserve pit. Continue to dump and dilute active system to maintain MW and counteract chlorides. Run 3 Generators. MW 9.0 PPG - Viscosity 33 In / MW 9.0 PPG - Viscosity 33 Out.	20.5

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

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
10	16	8,500.0	8,499.5	8.95	H & P, 638	

Operations Summary

Continue drilling intermediate wellbore to 8620' (TD). Sweep and CBU. Displace entire mud system with new 8.6 PPG WBM. Circulate to condition mud for running casing. Well flowing with 8.8+ PPG mud. Shut well in and build 300 BBL 10 PPG mud cap. Spot mud cap above San Andreas formation. Flow check, well static. TOOH to 8000'.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 16

Days since SPUD: 9.85

Rig NP: 0 Hrs for previous 24 Hours. 9.75 Total for Feb.

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

Lithology: Shale-Limestone

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate 120' at 60 FPH, WOB 30-35K, GPM 750-650 GPM, SPP 3375-2600, TD-RPM 80-100, MM-RPM 104-120, DIFF 350-550. Pumping LCM Sweeps every stand drilled and dumping Sand Trap. Run 3 Generators. MW 9.0 PPG - Viscosity 33 In / MW 9.0 PPG - Viscosity 33 Out.	2
CIRC	Pump 100 barrels 5 ppb Walnut, 150 Viscosity sweep. Circulated Surface to Surface, 21K Strokes, 7.7K Strokes over calculated Strokes of 13.2K. Circulated and displaced the Intermediate well bore with 1920 barrels of 8.6+ PPG, 56 Viscosity, 10 WL, 2/32 Cake, 10 PH, 18YP, 6RPM 10, 3RPM 8, Chlorides 1100, 80 Calcium Hardness, 160 Total Hardness mud and circulate surface to surface. Bleed in Black Water Pill consisting of 2 ppb Lignite while displacing wellbore. Run 2 Generators.	9

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
CIRC	Circulate Condition Mud and adjust properties to run 9-5/8" Casing. Increase MW to 8.8+ PPG in/out. Unable to increase MW due to YP falling out of mud and not holding the barite in suspension. Run 2 Generators.	4.5
U_WC	Flow check, well flowing 0.5 BBL per minute. Space out and shut well in. Install low pressure gauge on choke manifold. Pressure reading 25 PSI. Build up to 50 PSI in 30 minutes. Pressure stabilized at 50 PSI. Concurrently build 300 BBL 10 PPG mud cap. Run 2 Generators.	4
U_WC	Low pressure gauge reading 50 PSI. Open choke, release pressure and open well. Pump 300 BBL 10 PPG mud cap. Circulate mud cap around and spotted mud cap above the San Andreas Formation with 1,375 BBL of 8.8+ PPG mud from active pits. Pumped at 500 GPM, 1400 SPP, 50 TD-RPM and reciprocate string 1 full stand. MW in/out 8.8+ PPG Run 2 Generators.	3
U_WC	Check for flow, well flowing at 0.25 bbl/min. Continue pushing mud cap top to surface, where hole is more in gauge. Flow check, well static. Concurrently build 10.0 PPG to fill back side while tripping. Run 2 Generators.	1
TOOH	TOOH to 8000' pulling wet pipe. No tight spots observed. Monitor well on trip tanks, well taking correct displacement. Run 2 Generators.	0.5

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

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
11	17	8,500.0	8,499.5	8.95	H & P, 638	

Operations Summary
TOOH to 3,962'. Flow check, well flowing. Spot 11.5 PPG mud cap. TOOH and LD directional BHA. RU casing running equipment, run 9-5/8" casing to 3800' at 45 ft/min and CBU every 1500' to stage out mud cap.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 17
Days since SPUD: 10.85

Notice Cementing Amy, TRRC, at 15:00 hours on 2-17-2015, Job No.1123

Rig NP: 0 Hrs for previous 24 Hours. 9.75 Total for Feb.

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

Lithology: Shale-Limestone

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary		
Operation	Com	Dur (hr)
TOOH	TOOH from 8620' to 4015', pulling wet drill string. No tight spots observed. Trip Tank on continuous fill. Monitor well on trip tanks, well taking correct displacement. Run 2 Generators.	2.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
SAFETY	Monitor well @ 4015'. Well flowing at a rate of 0.6 BPH. Transfer 100 barrels of 10.7 ppg mud from pre-mix pit to rig system and finish raising mud weight to 11.1 ppg. Spot 70 barrels of 11.1 ppg mud in the annulus at 4015'. Top of 11.1 ppg mud at 3687'. Pump 30 barrels of 11.1 ppg to the Trip Tank for hole fill. Run 2 Generators.	1.5
TOOH	TOOH from 4015' to 850', pulling wet drill string. No tight spots observed. Trip Tank on continuous fill. Monitor well on trip tanks, well taking correct displacement. Concurrently condition mud in the active system to 9.2 ppg. Run 2 Generators.	2.25
SAFETY	Monitor well @ 850'. Well slight flow. Run 2 Generators.	0.25
BHA_HAN DLING	TOOH with BHA, Rack HWDP and 8" Drill Collars in the Derrick. LD Jars and Directional BHA. Run 2 Generators	2.75
WLHEAD	Pull Wear Bushing and jet wash Wellhead. Run 1 Generator.	1
CASE	Clear rig floor and RD 5" DP handling equipment. PJSM, RU CRT and Casing Handling Tools. Perform 2 point drawworks calibration and confirm ID of single elevators and OD of casing. Hold PJSM for running 9-5/8" casing. Run 1 Generator.	3
CASE	Manually tested float valves and MU 9-5/8" L80 BTC Float Shoe PDC Drillable, 2 Joint Shoe Track 9-5/8" 43.5 PPF L80-IC BTC. MU 9-5/8" L80 BTC Float Collar PDC Drillable. Thread Lock all connections to the top of the Float Collar. Pump through shoe track, floats good. RIH with 9-5/8" 43.5 PPF L80 BTC casing to 2,520' checking displacement every 5 joints. Slacking off at 45 ft/min. LD joint reference #38 due to damaged thread on pin end. Adjusted casing tally to ensure DV is placed in desired location. Monitor well on trip tanks, well returning proper displacement. Running 2 generators.	4
CIRC	At 1,500', fill casing and circulate bottoms up to stage out mud cap. Circulate with 6 BPM, 110 SPP. Full returns throughout. Running 2 generators.	0.5
CASE	Conitnue RIH with 9-5/8" 43.5 lb/ft casing to 1635' checking displacement every 5 joints. Slacking off 45 ft/min. Monitor well on trip tanks, well returning proper fill. Running 2 generators.	0.5
CASE	Unable to MU joint reference number 38 to base of triangle. Back joint out and inspect pin and box threads. Damage on pin threads, box threads okay. LD damaged joint and adjust casing tally to place DV stage tool at 5245'. Running 2 generators.	0.25
CASE	Conitnue RIH with 9-5/8" 43.5 lb/ft casing to 2520' confirming displacement every 5 joints. Slacking off at 45 ft/min. Monitor well on trip tanks, well returning proper fill. Running 2 generators.	1.75
CASE	At 2,520' change out CRT grapple for running 40 lb/ft casing. Concurrently, install circulating swedge and circulate bottoms up at 6 BPM, 160 SPP. Full returns throughout. Running 2 generators.	0.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
CASE	RIH with 9-5/8" 40 PPF L80 BTC casing to 3800' confirming displacement every 5 joints. MU DV stage tool and placed top of tool at 5,245' (After joint run number 76). Slacking off at 45 ft/min. Monitor well on trip tanks, well returning proper displacement. Running 2 generators.	3.25

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

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035209
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Days From Spud (days) 12	Days on Location (days) 18	End Depth (ftKB) 8,620.0	End Depth (TVD) (ftKB) 8,619.5	Dens Last Mud (lb/gal) 9.25	Rig H & P, 638
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Operations Summary
Continue running 9-5/8" casing to 8600'. Circulate 1.5x casing volume. Perform 2 stage cement job; estimated TOC at 2,613'. RD cementing equipment. (Note: full returns while running casing and during 1st and 2nd stage cement job).

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 18
Days since SPUD: 11.85

Notice Cementing Amy, TRRC, at 15:00 hours on 2-17-2015, Job No.1123

Rig NP: 0 Hrs for previous 24 Hours. 9.75 Total for Feb.

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

Lithology: Shale-Limestone

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary		
Operation	Com	Dur (hr)
CASE	RIH with 9-5/8" 40 PPF L80 BTC casing FROM 3800' to 4558' confirming displacement every 5 joints. Total of 37 centralizers run. Monitor well on trip tanks, well returning proper displacement. Running 2 generators.	1
CIRC	Circulate out Mud Cap at 4558', 6 BPM, 75PSI. Reciprocate casing 30', PU 210K / SO 200K. Full returns, no mud losses. MW 9.2 In/9.5 Out Run 2 Generators.	1
CASE	RIH with 9-5/8" 40 PPF L80 BTC casing from 4558' to 8607', confirming displacement every 5 joints. Monitor well on trip tanks, well returning proper displacement. Running 2 generators.	5.5
CASE	MU Casing Hanger and Landing Joint. Land Casing and PU 1'. PU 337K - SO 300K Run 2 Generators.	1
CIRC	Circulate 1.5 Casing Volumes. Full returns throughout. Run 1 Generators.	3

Time Log Summary		
Operation	Com	Dur (hr)
CMT	<p>PJSM, SBL, H&P, Weatherford, and PNR. RU Schlumberger Cementing Plug Container and Lines. Test lines to 5000 PSI, ok.</p> <p>Pumped 50 barrels Mud Push @ 9.8 PPG. 1.30 lb/bbl BW/V.Spacer B389, 0.2 gal/bbl Spacer, D206. 1908.9 lb/mgal Weighting Agent, D031 .</p> <p>Mix and Pump 191 barrels, 471 Sacks, 75 lb per sack of blend with 2% CemNET, Lead Cement @ 11.5 PPG. D049 Cement, 75 lb/sk WBWOB + D020 Extender, 9.0% BWOB + D046 Anti Foam, 0.2% BWOB + D065 Dispersant, 0.15% BWOB + D207 Fluid Loss, 0.6% BWOB + D013 Retarder, 0.45% + D208 Viscosifier, 0.1% BWOB + D042 Extender, 5 lb/sk WBWOB + D177 Retarder 0.03 gal/sk .</p> <p>Followed by 40 barrels, 208 Sacks Class H, Tail Cement @ 16.4 PPG. H Cement, 94 lb/sk WBWOB + D013 Retarder, 0.4% BWOB, + D065 Dispersant 0.15% BWOB + D046 Antifoam 0.2% BWOB</p> <p>Dropped 1st Stage Plug and displaced with 641 barrels 9.2 PPG Water Base Mud. Pumped plug with 540 psi over final displacement pressure of 760 PSI. Bumped plug at 21:45.</p> <p>Full Returns throughout Cement Job.</p> <p>Lift pressures: 100 BBL - 5.5 BPM - 193 PSI 200 BBL - 5.5 BPM - 190 PSI 300 BBL - 5.5 BPM - 200 PSI 400 BBL - 3.2 BPM - 76 PSI (Plug passing DV tool) 500 BBL - 5.5 BPM - 220 PSI (Initial lift pressure) 550 BBL - 5.5 BPM - 370 PSI 600 BBL - 5.5 BPM - 629 PSI 630 BBL - 3.2 BPM - 675 PSI 641 BBL - 3.2 BPM - 760 PSI (Final lift pressure)</p> <p>Run 1 Generator.</p> <p>Concurrently rigging up to skidding assembly to skid rig.</p>	4.25
CIRC	<p>Drop Weatherford Shifting Plug and allow plug to free fall to seat.</p> <p>Run 1 Generator.</p>	0.5
CIRC	<p>Open DV tool with 720 PSI, circulate with 6 BPM and 130 SPP. Full returns throughout. No cement circulated to surface.</p> <p>Concurrently rigging up to skidding assembly to skid rig.</p> <p>Run 1 Generator.</p>	3.5
CMT	<p>PJSM, SBL, H&P, Weatherford, and PNR. RU line up Schlumberger Cementing Lines ans Test lines to 5000 PSI, ok.</p> <p>Pumped 50 barrels Mud Push @ 9.8 PPG. 1.30 lb/bbl BW/V.Spacer B389, 0.2 gal/bbl Spacer, D206. 1908.9 lb/mgal Weighting Agent, D031 .</p> <p>Mix and Pump 209 barrels, 515 Sacks, 75 lb per sack of blend with 2% CemNET, Lead Cement @ 11.5 PPG. D049 Cement, 75 lb/sk WBWOB + D020 Extender, 9.0% BWOB + D046 Anti Foam, 0.2% BWOB + D065 Dispersant, 0.2% BWOB + D207 Fluid Loss, 0.6% BWOB + D013 Retarder, 0.2% + D208 Viscosifier, 0.1% BWOB + D042 Extender, 5 lb/sk WBWOB</p> <p>Followed by 49 barrels, 258 Sacks Class H, Tail Cement @ 16.4 PPG. H Cement, 94 lb/sk WBWOB + D013 Retarder, 0.2% BWOB, + D065 Dispersant 0.15% BWOB + D046 Antifoam 0.2% BWOB</p> <p>Top of cement estimated at 2,613' as per Schlumberger.</p> <p>Dropped DV closing Plug and displaced with 401 barrels 9.2 PPG Water Base Mud. Pumped plug with 1500 PSI over final displacement pressure of 634 PSI. Bumped plug at 04:46.</p> <p>Full Returns throughout Cement Job. No cement returned to surface.</p> <p>Lift Pressures: 100 BBL - 7.5 BPM - 284 PSI 200 BBL - 7.5 BPM - 305 PSI 300 BBL - 5.5 BPM - 228 PSI (Initial lift) 350 BBL - 5.5 BPM - 424 PSI 380 BBL - 3.5 BPM - 611 PSI 401 BBL - 3.5 BPM - 634 PSI (Final lift)</p> <p>Run 1 Generator.</p> <p>Concurrently rigging up to skidding assembly to skid rig.</p>	3

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	Drain stack and monitor well through wellhead valve. Well Static Concurrently RD cementing equipment.	0.5
CASE	Remove landing Joint, Set 13 5/8" Primary Pack off. Operation conducted by Seaboard technician and observed by PNR representative.	0.75

Report #: 19 Daily Operation: 2/19/2015 06:00 - 2/20/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
13	18	8,620.0	8,619.5	9.25	H & P, 638	

Operations Summary

Continue RD cementing equipment. ND BOP and install dry hole cap. Released rig at 13:30 2/19/2015

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 18.32

Days since SPUD: 12.14

Rig NP: 0 Hrs for previous 24 Hours. 9.75 Total for Feb.

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

Lithology: Shale-Limestone

Percentage Rotate 100% (Hrs) - Percentage Slide 0% (Hrs)

Estimated Pad Completion Date 3/31/2015.

Time Log Summary

Operation	Com	Dur (hr)
NU_TEST	Monitor well for flow (Well static), Back out landing joint. Make up seal assay. with Seaboard rep., install pack off, engage lower lock screws and energize pack off seals, test mandrel pack off seals to 5000 psi for 5 min's., lay down seal assay running tool. (Wittiness by PNR)	2
WEARBUS HING	Rig down H&P's CRT tool.	1
NU_TEST	Nipple down BOP and related equipment.	1.5
NU_TEST	Satiety stand down, Contraband search.	0.5
NU_TEST	Continue nipple down BOP and related equipment.	1.5
NU_TEST	Install blank flange (Night cap) on "B" section & test 250 psi 10 min's., (Good test). (Witness by PNR and seaboard hand). Release rig at 1:30 pm 2-19-15	1

Report #: 20 Daily Operation: 3/16/2015 18:00 - 3/17/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
38	19	8,620.0	8,619.5	9.25	H & P, 638	

Operations Summary

Rig down & prep for skid. PJSM, skid rig F/34H - 33H. PJSM. ND A-cap. NU BOP & test. RU preparing to PU BHA and drill out.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 18.82

Days since SPUD: 12.64

Rig NP: 0 Hrs for previous 24 Hours. 3.25 Total for March.

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

Time Log Summary

Operation	Com	Dur (hr)
B_SKID	Rig down and prepare to skid rig.	2.5
SAFETY	Held PJSM on skidding rig. Perform walk around.	0.5
B_SKID	Skid rig 45' from University 3-19 34H to University 3-19 33H. Perform walk and PNR representative confirmed rig over well center (ok).	3
SAFETY	Held PJSM with Rig crew and Battle energy services Running on 1 generator	0.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
NU_TEST	Check abandonment cap for pressure (0 PSI). ND and Remove abandonment cap. NU BOPE to wellhead, choke line, and kill line, flow line. Hook up accumulator lines. Connect grounding equipment, RU pipe wrangler. Running on 1 generator Note: Confined space work permit filled out.	2.25
NU_TEST	Test breaks on BOP 250 psi low & 3500 psi high, Test super choke 250 low & 3500 high. Back to pumps 5500 psi (All good test). Continue rigging up perpare to PU drill out assembly. Running on 1 generator	2.5
MIRU	Install turn buckles and center stack, install pollution pan. Continue tightening flanges on flowline. Rig up bells, elevators and pipe guide. Rig up overboard line and trash pumps to circulate from reserve pit to slugging pit for drilling out.	1

Report #: 21 Daily Operation: 3/17/2015 06:00 - 3/18/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
39	20	8,630.0	8,629.5	10.80	H & P, 638	

Operations Summary
Finish RU to drill. Set WB. MU D/O BHA & TIH. Test csg and DV tool. D/O DV tool. TIH to 8497'. Test casing. D/O float equipment & 10; of new hole. Perform FIT (13.5 ppg EMW). Displace hole W/OBM. Flowcheck (static). TOOH to 2400'. Trip check HWDP

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 19.82
Days since SPUD: 13.64

Rig NP: 0 Hrs for previous 24 Hours. 3.25 Total for March.

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

Time Log Summary		
Operation	Com	Dur (hr)
B_SKID	Continue to Install turn buckles and center stack, install pollution pan. Continue tightening flanges on flow line. Rig up bells, elevators and pipe guide. Rig up overboard line and trash pumps to circulate from reserve pit to slugging pit for drilling out, Hookup kill line and insert dart valve, (filled stack and fix leak on flow line)	3
WEARBUS HING	Install wear bushing PNR rep present .	0.5
BHA_HAN DLING	Make up dumb iron BHA consisting of, Bit--8 1/2 GT-CI mill tooth , junk basket bit sub with float, and 25 jts Stds HWDP.(Re-arrange pipe in derrick to get all HWDP)	2.5
TIH	TIH F/ BHA to DV tool tagged @ 5243' with 50k 2 times to ensure DV stage tool closed.	1.5
TST_DO_FIT	Tested csg to 2500 psi.w/ 8.4 ppg mud wt. for 10 min.Good Test.	0.5
WASH_REAM	Drill out DV stage tool, start with 2k WOB increase to 8k RPM 40-80 pumping 450/500 gpm (Pressure test to 2500 PSI for 5 mins).	2
TIH	TIH F/5250' - 8497' (Tag).	2.5
TST_DO_FIT	Break circulation and line out to test casing. Test Intermediate casing to 2500 PSI for 30 minutes (Good test). Bleed down pressure and line back out to drill.	1.25
TST_DO_FIT	Drill out Float collar F/8497' - 8498'. Drill out cement in shoe track. Drill out Shoe F/8592' - 8594'. Drill out cement F/8594' - 8620'. Worked through float collar and shoe 3 times.	2.25
DRL_ROT	Drill 10' of new hole F/8620' - 8630' at 40'/hr. 500 GPM, 10-12K WOB, 1250 PSI, 80 RPM.	0.25
CIRC	Circulate bottoms up and condition mud until MW was 8.6 ppg in and out.	0.5
TST_DO_FIT	Perform FIT to 13.5 ppg EWM. Surface pressure applied 2190 PSI. (13.5 - 8.6) * 0.052 * 8594'(Shoe TVD) = 2189 PSI.	0.5
CIRC	Displace hole with 10.8 ppg OBM. Circulate and build slug (1.5 ppg over). Flow check well (Static). Pump slug	1.5
TOOH	TOOH F/8630' - 2400' (HWDP)	2
TOOH	Red River perform trip check on 5" HWDP, inspected 20 out of 30 joints. *** 2 Generators online***	3.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 22 Daily Operation: 3/18/2015 06:00 - 3/19/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035209		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
40	21	8,918.0	8,917.5	11.10	H & P, 638			

Operations Summary
 Finish trip inspection. LD D/O BHA. Pull & inspect WB. Wash WH, re-install WB. Rig service. MU Dir. BHA & TIH to 8630'. Drl F/8630' - 8771'. PU into Int. shoe and W&R back to bottom. Drl F/8771' - 8918'.

Remarks
 Rig H&P 638 & Well Progress
 Move days: 5
 Total days on well: 20.82
 Days since SPUD: 14.64

 Rig NP: 0 Hrs for previous 24 Hours. 3.25 Total for March.

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

Time Log Summary

Operation	Com	Dur (hr)
BHA_HAN DLING	Red River finish doing trip check on 30 jnts 5" HWDP, *** 2 Generators online***	4
BHA_HAN DLING	Lay down dumb iron BHA.-Mill tooth, junk basket bs, and x-o Bit grade: 0,0,NO,A,0,0,ND,BHA.	1
WEARBUS HING	Pull and inspect wear bushing, wash wellhead, install wear bushing, PNR Rep present. :Note: confined space permit fillout:	0.5
RIG_SVC	Service rig, grease top drive, crown and drawworks	1
BHA_HAN DLING	MU directional BHA to drill curve wellbore. Weatherford 2.0,7/8, 5, .28 rpg, slick Scribed motor and shallow test with 450 GPM and 770 PSI - Good test. M/U Ulterra U516M (Tested tq on motor sleeve --good) Running on 2 generator	1.5
TIH	TIH F/ Dir BHA to 8620', Filling pipe every 30 stds. Monitor well on trip tanks, well returning proper displacement. Break circulation and wash and ream to 8630'. Note 2 gens on line	4
DRL_ROT	Rotate 141' for 21.7 FPH with 15-30 WOB, 550 GPM, 30-40 TD-RPM, TQ 3-5K, 154 MM-RPM, 3350 SPP, 100-175 DIFF. Pump a 20 bbl nut plug sweep due to low Tq and dP. Full returns. MW in 10.7 - 10.9 PPG and MW out 10.7 - 10.8 PPG. 8640' - 8660' 70% Shale, 30% Limestone 8660' - 8670' 80% Shale, 20% Limestone 8670' - 8710' 70% Shale, 30% Limestone 8720' - 8740' 30% Shale, 70% Limestone 8740' - 8750' 40% Shale, 60% Limestone 8750' - 8770' 70% Shale, 30% Limestone 8770' - 8780' 80% Shale, 20% Limestone Running 2 generators	6.5
WASH_RE AM	Pick up off bottom check hook load calibration Rot wt. 225K, PU wt. 250K. TOO H to Intermediate casing shoe at 8995'. Wash and ream F/8600' - 8771'. Work last stand twice. No indication of any junk in the hole.	1.25
DRL_ROT	Tag bottom with 5K PU 1' three times. Pattern bit 5K increment for 3-5 mins. F/5K to 20K WOB. Rotate 12' for 24 FPH with 5-20 WOB, 550-575 GPM, 40 TD-RPM, TQ 3-5K, 154-161 MM-RPM, 3350-3400 SPP, 100-175 DIFF. Adjust parameters in attempt to increase ROP. Full returns. MW in 10.9 PPG and MW out 10.9 PPG. 8780' 80% Shale, 20% Limestone Running 2 generators	0.5
DRL_SLID E	Slide drill 10' for 20 FPH with 30-37 WOB, 575 GPM, 161 MM-RPM, 3675 SPP, 150-225 DIFF Full returns. MW in 10.9 PPG and MW out 10.9 PPG. 90% Shale, 10% Limestone Running 2 generators	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate 125' for 38.5 FPH with 25-30 WOB, 475-500 GPM, 40 TD-RPM, TQ 5-7K, 133 MM-RPM, 2800 SPP, 275 DIFF. Full returns. MW in 11.0 PPG and MW out 11.0 PPG. 80% Shale, 20% Limestone Running 2 generators	3.25

Report #: 23 Daily Operation: 3/19/2015 06:00 - 3/20/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
41	22	9,419.0	9,418.4	11.00	H & P, 638

Operations Summary

Rotate F/ 8,918' T/ 9,009', circulate B/U and TOO H for bit and motor due to low rop. Lay down bit and motor. Pull wear bushing, wash out stack. Puck up new curve motor and bit. TIH and wash and re-log last 45' drilled. Drill curve section F/ 9,009' T/ 9,419'

Remarks

Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 21.82
Days since SPUD: 15.64

Rig NP: 0 Hrs for previous 24 Hours. 3.25 Total for March.

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 2%, Lateral -0%

MWD Surveys_Pioneer_University 3-19 - 33H_P1V3_MD: 9394' SD: 9336'INC: 1.09° AZM: 127.21° TVD: 9335.43 N/S: -3.19 E/W: 16.69DLS: 0.39° VS: -2.84 Gamma: 128AAPL
Behind: 2.9' Right: 16'

Rot time / footage - 71% / 93%

Sld time / footage - 29% / 7%

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Curve 44' @ 44 ft/hr: 30k WOB, 40 TDS RPM, 148 spm, 476 gpm, 133 MMTR RPM, 250 psi Diff, 2750 psi SPP, 6k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11 Vis 77 Notes: 80 % Shale 20% lime	1
DRL_SLID E	Slide Drill 8-1/2" Curve 11' @ 22 ft/hr: 35k WOB, 148 spm, 476 gpm, 133 MMTR RPM, 275 psi Diff, 2800 psi SPP, 1k TQ, 30L MTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11 Vis 77 Notes: 80 % Shale 20% lime.	0.5
DRL_ROT	Rotate Drill 8-1/2" Curve 36' @ 36 ft/hr: 30k WOB, 50 TDS RPM, 148 spm, 476 gpm, 133 MMTR RPM, 300 psi Diff, 2800 psi SPP, 7k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11 Vis 77 Notes: 80 % Shale 20% lime.	1
CIRC	Circulate bottoms up w/ 170 spm, 547 gpm, 45 TDS rpm, 3025 psi SPP, 6K torque working pipe 60'. Tail gate safety meeting held on trip safety. Note: During morning conference call the decision was made to TOO H due to rop and low differential.	0.5
SAFETY	Perform flow check at trip tanks. (Well static)	0.25
TOOH	TOOH F/ 9,009' T/ BHA. Note: Well taking proper fill from trip tanks. Torque and drag sheet filled out.	2.75
BHA_HAN DLING	Drain motor, break bit off, lay down motor and mwd tool.	1
WEARBUS HING	Pull wear bushing and wash out well head. Reinstall wear bushing and tighten pins. Note: Drilling foreman witnessed pins being backed off and tightened.	1
BHA_HAN DLING	Pick up new motor and check all breaks for proper torque. Scribe motor and install new mwd tool and surface test. (Test good). M/U bit w/ 18K torque.	1
RIG_SVC	Service TDS and crown.	0.5
TIH	TIH F/ 87' - 8964' MD. Monitoring well on trip tank - hole giving proper displacement	3.5
CIRC	Wash F/8964' - 9009' w/ 155 spm, 500 gpm, 2700 psi SPP. MW 11.0 Vis 80. Full returns, Re-log Gamma.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" 235' @ 58 ft/hr: 25k WOB, 40 TDS RPM, 177 spm, 569 gpm, 159 MMTR RPM, 400 psi Diff, 3900 psi SPP, 8k TQ. Full returns while circulating through pits. MW 11 Vis 80 9040' - 40 % Shale 60% Limestone 9070' - 60 % Shale 40% Limestone 9100' - 70 % Shale 30% Limestone 9130' - 80 % Shale 20% Limestone 9190' - 70 % Shale 30% Limestone	4
DRL_SLID E	Slide Drill 8-1/2" 8' @ 8 ft/hr: 20k WOB, 177 spm, 569 gpm, 159 MMTR RPM, 150 psi Diff, 3550 psi SPP, 250 MTF. Full returns while circulating through pits. MW 11 Vis 79 Notes: 70 % Shale 30% lime	1
DRL_ROT	Rotate Drill 8-1/2" 142' @ 57 ft/hr: 25k WOB, 40 TDS RPM, 177 spm, 569 gpm, 159 MMTR RPM, 400 psi Diff, 3900 psi SPP, 8k TQ. Full returns while circulating through pits. MW 11.2 Vis 76 Notes: 80 % Shale 20% Limestone	2.5
DRL_SLID E	Slide Drill 8-1/2" Curve 25' @ 12.5 ft/hr: 5-15k WOB, 177 spm, 475 gpm, 133 MMTR RPM, 150 psi Diff, 2575 psi SPP, 5 MTF. Full returns while circulating through pits. MW 11.2 Vis 73 Notes: 80 % Shale 20% Limestone	2

Report #: 24 Daily Operation: 3/20/2015 06:00 - 3/21/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
42	23	9,813.0	9,790.6	11.30	H & P, 638

Operations Summary
 Rotate and slide drill curve F/ 9,419' T/ 9,813'

Remarks
 Rig H&P 638 & Well Progress
 Move days: 5
 Total days on well: 22.82
 Days since SPUD: 16.64

Rig NP: 0 Hrs for previous 24 Hours. 3.25 Total for March.

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 35%, Lateral -0%

MWD Surveys_Pioneer_University 3-19 - 33H_P1V3_MD:9724'INC: 24.22° AZM: 4.30° TVD: 9711.71 N/S: 74.29 E/W: 21.89 DLS: 3.38° VS: 74.72 Gamma: 106 AAPI Bit projection: MD: 9782/ INC: 26.32°/ AZM: 5.21°/ BRN: 8.0/ MY: 6.1/Right:12.00 Above: 22.00'

Rot time / footage - 25% / 40%
 Sld time / footage - 75% / 60%

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Curve 16' @ 32 ft/hr: 25k WOB, 40 TDS RPM, 140 spm, 450 gpm, 130 MMTR RPM, 400 psi Diff, 2600 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65 Notes: 70% Shale 30% Lime."	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 21' @ 21 ft/hr: 20k WOB, 148 spm, 476 gpm, 138 MMTR RPM, 175 psi Diff, 2650 psi SPP, 0k TQ, 5R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65 Notes: 70% Shale 30% Lime.	1
DRL_ROT	Rotate Drill 8-1/2" Curve 11' @ 22 ft/hr: 25k WOB, 40 TDS RPM, 148 spm, 476 gpm, 138 MMTR RPM, 450 psi Diff, 2850 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65 Connection @ 9467' MD. Survey @ 9409' MD: 2.4° Inc, 13.71° Az. Slide Drill next stand Notes: 70% Shale 30% Lime.	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 10' @ 5 ft/hr: 25k WOB, 148 spm, 476 gpm, 123 MMTR RPM, 175 psi Diff, 2650 psi SPP, 8k TQ, 5R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65 Notes: 70% Shale 30% Lime.	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 11' @ 22 ft/hr: 30k WOB, 40 TDS RPM, 148 spm, 476 gpm, 123 MMTR RPM, 450 psi Diff, 2850 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65</p> <p>Connection @ 9499' MD. Survey @ 9441' MD: 5.3° Inc, 6.96° Az. Slide Drill next stand</p> <p>Notes: 70% Shale 30% Lime.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 18' @ 9 ft/hr: 30k WOB, 148 spm, 476 gpm, 123 MMTR RPM, 175 psi Diff, 2650 psi SPP, 1k TQ, 10L GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65</p> <p>Notes: 70% Shale 30% Lime.</p>	2
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 14' @ 28 ft/hr: 30k WOB, 40 TDS RPM, 148 spm, 476 gpm, 123 MMTR RPM, 400 psi Diff, 2900 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65</p> <p>Connection @ 9530' MD. Survey @ 9472' MD: 7.8° Inc, 4.92° Az. Slide Drill next stand</p> <p>Notes: 70% Shale 30% Lime. 17' Right 3.8' high of plan line.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 18' @ 12 ft/hr: 15k WOB, 148 spm, 476 gpm, 123 MMTR RPM, 175 psi Diff, 2600 psi SPP, 1k TQ, 0HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65</p> <p>Notes: 65% Shale 35% Lime.</p>	1.5
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 13' @ 26 ft/hr: 25k WOB, 40 TDS RPM, 148 spm, 476 gpm, 123 MMTR RPM, 450 psi Diff, 2850 psi SPP, 7k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 65</p> <p>Notes: 65% Shale 35% Lime.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 22' @ 22 ft/hr: 15k WOB, 148 spm, 476 gpm, 123 MMTR RPM, 175 psi Diff, 2650 psi SPP, 0k TQ, 0HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 64</p> <p>Notes: 70% shale 30% Lime.</p>	1
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 10' @ 20 ft/hr: 25k WOB, 40 TDS RPM, 148 spm, 476 gpm, 133 MMTR RPM, 450 psi Diff, 2850 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 64</p> <p>Connection @ 9593' MD. Survey @ 9535' MD: 12.2° Inc, 3.96° Az. Slide Drill next stand</p> <p>Notes: 70% shale 30% Lime.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 18' @ 12 ft/hr: 22k WOB, 148 spm, 476 gpm, 133 MMTR RPM, 250 psi Diff, 2700 psi SPP, 0k TQ, 0HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 67</p> <p>Notes: 60% shale 40% Lime.</p>	1.5
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 13' @ 26 ft/hr: 24k WOB, 40 TDS RPM, 155 spm, 500 gpm, 140 MMTR RPM, 475 psi Diff, 3250 psi SPP, 8-12k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 66</p> <p>Notes: 90% shale 10% Lime.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 16' @ 32 ft/hr: 15k WOB, 155 spm, 500 gpm, 140 MMTR RPM, 175 psi Diff, 2775 psi SPP, 0k TQ, 0HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 67</p> <p>Notes: 90% shale 10% Lime.</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 14' @ 28 ft/hr: 24k WOB, 40 TDS RPM, 155 spm, 500 gpm, 140 MMTR RPM, 475 psi Diff, 3250 psi SPP, 8-12k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 66</p> <p>Notes: 90% shale 10% Lime.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 21' @ 14 ft/hr: 15k WOB, 155 spm, 500 gpm, 140 MMTR RPM, 175 psi Diff, 2775 psi SPP, 0k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 67</p> <p>Notes: 90% shale 10% Lime.</p>	1.5
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 10' @ 20 ft/hr: 24k WOB, 40 TDS RPM, 155 spm, 500 gpm, 140 MMTR RPM, 500 psi Diff, 3100 psi SPP, 8-12k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.2 Vis 66</p> <p>Notes: 90% shale 10% Lime.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 17' @ 34 ft/hr: 15k WOB, 155 spm, 500 gpm, 140 MMTR RPM, 150 psi Diff, 2850 psi SPP, 0k TQ, 50R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 60</p> <p>Notes: 80% shale 20% Lime.</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 15' @ 30 ft/hr: 24k WOB, 40 TDS RPM, 155 spm, 500 gpm, 140 MMTR RPM, 500 psi Diff, 3200 psi SPP, 8-12k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 66</p> <p>Notes: 60% shale 40% Lime.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 18' @ 9 ft/hr: 15k WOB, 155 spm, 500 gpm, 140 MMTR RPM, 200 psi Diff, 2900 psi SPP, 0k TQ, 5R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 60</p> <p>Notes: 70% shale 30% Lime.</p>	2
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 13' @ 26 ft/hr: 24k WOB, 40 TDS RPM, 155 spm, 500 gpm, 140 MMTR RPM, 300 psi Diff, 3100 psi SPP, 8-12k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 66</p> <p>Notes: 70% shale 30% Lime.</p>	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Curve 22' @ 11 ft/hr: 15k WOB, 155 spm, 500 gpm, 140 MMTR RPM, 200 psi Diff, 2975 psi SPP, 0k TQ, HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 60 Notes: 50% shale 50% Lime.	2
DRL_ROT	Rotate Drill 8-1/2" Curve 10' @ 20 ft/hr: 24k WOB, 40 TDS RPM, 155 spm, 500 gpm, 140 MMTR RPM, 300 psi Diff, 3100 psi SPP, 8-12k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 66 9780' - 20% shale 80% Lime.	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 31' @ 12 ft/hr: 15k WOB, 155 spm, 500 gpm, 140 MMTR RPM, 200 psi Diff, 2975 psi SPP, 0k TQ, HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.4 Vis 64 9790' - 70% shale 30% Lime.	2.5

Report #: 25 Daily Operation: 3/21/2015 06:00 - 3/22/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
43	24	10,006.0	9,942.7	11.40	H & P, 638

Operations Summary

Rotate and slide curve F/ 9,813' T/ 10,006'. CBU, flowcheck well (static). TOOH F/10,006' - 6,000' due to ROP.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 23.82

Days since SPUD: 17.64

Rig NP: 0 Hrs for previous 24 Hours. 3.25 Total for March.

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 52%, Lateral -0%

MWD Surveys_Pioneer_University 3-19 - 33H_P1V3_MD:9945' INC: 40.82° AZM: 4.59° TVD: 9898.73 N/S: 190.58 E/W: 29.09 DLS: 11.19° VS: 191.14
Gamma: 37AAP1 Bit projection: MD: 10003'/INC: 45.00°/ AZM: 5.73°/ BRN: 7.6 / MY: 11.1/ Right: 3.0 Above: 22.0

Rot time / footage - 15% / 20%

Sld time / footage - 85% / 80%

Time Log Summary

Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Curve 18' @ 9 ft/hr: 17k WOB, 156 spm, 502 gpm, 140 MMTR RPM, 250 psi Diff, 2850 psi SPP, 1k TQ, 0HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.5 Vis 64 Notes: 60% shale 40% Lime.	2
DRL_ROT	Rotate Drill 8-1/2" Curve 14' @ 28 ft/hr: 28k WOB, 40 TDS RPM, 156 spm, 502 gpm, 140 MMTR RPM, 450 psi Diff, 3300 psi SPP, 9k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.5 Vis 64 Connection @ 9854' MD. Survey @ 9787' MD: 29.02° Inc, 4.02° Az. Slide Drill next stand Notes: 60% shale 40% Lime.	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 27' @ 10 ft/hr: 18k WOB, 156 spm, 502 gpm, 140 MMTR RPM, 250 psi Diff, 2850 psi SPP, 1k TQ, 0HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.5 Vis 64 Notes: 70% shale 30% Lime.	2.5
DRL_ROT	Rotate Drill 8-1/2" Curve 5' @ 10 ft/hr: 25k WOB, 40 TDS RPM, 156 spm, 502 gpm, 140 MMTR RPM, 400 psi Diff, 2850 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.5 Vis 64 Connection @ 9877' MD. Survey @ 9819' MD: 30.9° Inc, 3.54° Az. Slide Drill next stand Notes: 70% shale 30% Lime.	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 31' @ 8 ft/hr: 18-20k WOB, 156 spm, 502 gpm, 140 MMTR RPM, 150-225 psi Diff, 2850 psi SPP, 1k TQ, 0HS GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.5 Vis 64 Notes: 60% shale 40% Lime.	3.5
RIG_SVC	Rig service	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 57' @ 8.8 ft/hr: 18-20k WOB, 169 spm, 550 gpm, 154 MMTR RPM, 125-275 psi Diff, 3450 psi SPP, 10R GTF. Full returns while circulating through pits. Pump 3 PPB graphite sweep at 9915'. MW 11.5 Vis 66 9950' - 50% shale 50% Lime. 9960' - 20% shale 80% Lime.	6.5
DRL_ROT	Rotate Drill 8-1/2" Curve 6' @ 12 ft/hr: 20k WOB, 40 TDS RPM, 170 spm, 550 gpm, 154 MMTR RPM, 300 psi Diff, 3400 psi SPP, 9k TQ. Full returns while circulating through pits. MW 11.5 Vis 64 Notes: 20% shale 80% Lime.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Curve 18' @ 7.2 ft/hr: 20-45k WOB, 170 spm, 550 gpm, 154 MMTR RPM, 50-200 psi Diff, 3150-3350 psi SPP, 10R GTF. Full returns while circulating through pits. MW 11.4 Vis 59 9980' - 30% shale 70% Lime. ***Instantaneous ROP dropped to 0 - 5' per hour, with 45K WOB and Zero differential pressure while oscillating pipe. Decision made to rotate 13' and pump 20 bbl 3 PPB graphite sweep.***	2.5
DRL_ROT	Rotate Drill 8-1/2" Curve 13' @ 8.7 ft/hr: 20-28k WOB, 40 TDS RPM, 170 spm, 550 gpm, 154 MMTR RPM, 150 psi Diff, 3350 psi SPP, 9k TQ. Full returns while circulating through pits. MW 11.3 Vis 61 Connection @ 10,002' MD. Survey @ 9945' MD: 40.82° Inc, 5.73° Az. Motor yield - 11.1, BRN - 7.6. 10,000 - 60% shale 40% Lime.	1.5
DRL_SLID E	Slide Drill 8-1/2" Curve 4' @ 8 ft/hr: 25-30k WOB, 170 spm, 550 gpm, 154 MMTR RPM, 100-150 psi Diff, 3300 psi SPP, 10R GTF. Full returns while circulating through pits. MW 11.3 Vis 59 60% shale 40% Lime. Stalled mud motor twice. Off bottom pressure after second pressure spike increased by 300 PSI. Contact Drlg. Supt. decision made to TOOH due to ROP.	0.5
CIRC	Circulate bottoms up w/ 160 spm, 515 gpm, 40 TDS rpm, 3200 psi SPP, 4K torque working pipe 90'. Tail gate safety meeting held on trip safety. Perform flow check at trip tanks. (Well static). Pump slug.	1.25
TOOH	TOOH F/ 10,006' - 6,000'. Note: Well taking proper fill from trip tanks. Running 2 generators	1.75

Report #: 26 Daily Operation: 3/22/2015 06:00 - 3/23/2015 06:00						
Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig H & P, 638	
44	25	10,012.0	9,946.9	11.50		

Operations Summary
Finish tooh, lay down bit, motor and mwd tool. Pull wear bushing, wash out stack. Perform pressure drop test, make up motor and surface test. Make up bit and tih T/ 9,961' and re-log last 45' drilled. Rotate and slide curve section F/ 10,006 T/ 10,012'. Trouble shoot pressure loss. tooh F/10,012' - bha, lay down bit. Inspect and test mud motor and DSV. lay down motor and mwd. Pull wear bushing and wash stack.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 24.82
Days since SPUD: 18.64

Rig NP: 0 Hrs for previous 24 Hours. 3.25 Total for March.

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 52.6%, Lateral -0%

MWD Surveys_Pioneer_University 3-19 - 33H_P1V3_MD:9945' INC: 40.82° AZM: 4.59° TVD: 9898.73 N/S: 190.58 E/W: 29.09 DLS: 11.19° VS: 191.14
Gamma: 37AAPI Bit projection: MD: 10003'/INC: 45.00°/ AZM: 5.73°/ BRN: 7.6 / MY: 11.1/ Right: 3.0 Above: 22.0

Rot time / footage - 0% / 0%
Sld time / footage - 100% / 100%

Time Log Summary		
Operation	Com	Dur (hr)
TOOH	TOOH F/ 6,000 T/ 2,400 @ 200 fpm. Note: Hole taking proper fill from trip tanks.	1.5
RIG_SVC	Service rig, TDS system and guide shoes.	0.5
TOOH	TOOH F/ 2,400' T/ Directional bha @ 200 fpm. Note: Hole taking proper fill from trip tanks.	1
BHA_HAN DLING	Drain motor, break off bit and pull MWD tool. Lay down motor and mwd tool.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
WEARBUS HING	Pull wear bushing w/ hoist and inspect. No viable wear seen. Wash out stack w/ 100 spm 50 psi. Install wear bushing and set locking pins. Note: PNR drilling foreman witnessed pins being backed off and tightened.	1
CIRC	Perform mud motor pressure loss test for setting up DSV tool. Pressure drop test Drill Pipe: 400 GPM = 53 psi 450 GPM = 67 psi 500 GPM = 85 psi 550 GPM = 100 psi 600 GPM = 120 psi BHA: 400 GPM = 565 psi 450 GPM = 678 psi 500 GPM = 780 psi 550 GPM = 895 psi 600 GPM = 1,047 psi Note: Results of test sent to engineer and drlg ops manager.	1.5
BHA_HAN DLING	Make up back up DSV tool and motor. Install mwd tool and surface test. (Test good). Make up bit w/ 18K torque. Note: Smith Z613 SR# JK3513	1.5
TIH	TIH F/ BHA T/ 8,587' filling pipe every 30 stands. Note: Hole giving proper displacement to trip tanks.	3.5
CUTDL	Review EJSA. Slip and cut drill line	1
TIH	TIH F/8,587' T/9,756'. Orientate mud motor HS at 8,772'. Tag up at 9,756'.	1
WASH_RE AM	Fill pipe and break circulation. Wash F/9,756' T/10,006' (Relog Gamma on last 45') 450 GPM, 2600 PSI.	1.5
DRL_SLID E	Slide Drill 8-1/2" Curve 6' @ 12 ft/hr: 25k WOB, 155 spm, 500 gpm, 140 MMTR RPM, 200-250 psi Diff, 3350 psi SPP, HS GTF. Full returns while circulating through pits. MW 11.5 Vis 66 9950' - 70% shale 30% Lime.	0.5
U_LPP	Lost all differential pressure while on bottom. Troubleshoot pressure decrease: Pick to off bottom in attempt to reset DSV and off bottom pressure was 200 PSI lower. Try and continue sliding. Did not have any differential pressure of reactive torque, just stacking weight and unable to slide. Cycle pumps 3 times. Off bottom pressure still 200 PSI lower than original off bottom pressure. Increase rate to 600 GPM still unable to get differential pressure or reactive torque. Attempt to rotate drill with same result. Decision made to TOOH.	1.5
SAFETY	Flowcheck well (Static).	0.25
TOOH	TOOH F/ 10,012 T/ 9,628'. Note: Hole taking proper fill from trip tanks.	0.25
CIRC	Pump slug and flowcheck well (Static).	0.25
TOOH	TOOH F/ 9,628 T/ BHA. Note: Hole taking proper fill from trip tanks.	3.25
BHA_HAN DLING	No visible indications of DSV of mud motor malfunctions. Break out bit and drain motor. RIH W/ mud motor, DSV and NMDCs. Circulate and 160 GPM (No leak through ports on DSV and motor working properly). Perform pressure drop test(MWD installed, DSV did not leak and motor working normal) 450 GPM = 850 psi 500 GPM = 1,025 psi 550 GPM = 1,155 psi 600 GPM = 1,510 psi	1.75
BHA_HAN DLING	Lay down motor and mwd tool.	0.75
WEARBUS HING	Pull wearbushing and wash stack.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 27 Daily Operation: 3/23/2015 06:00 - 3/24/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035209		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
45	26	10,265.0	10,082.3	11.35	H & P, 638			

Operations Summary
Pick up new motor (GyroData) scribe and install mwd tool. surface test same. (Test Good). Make up bit and TIH breaking circulation every 30 stands. High side motor outside of casing and trip to bottom washing and re-logging last 45'. Rotate and slide curve F/ 10,012' T/ 10,265'

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 25.82
Days since SPUD: 19.64

Rig NPT: 0 Hrs for previous 24 Hours. 3.25 Total for March.

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 74%, Lateral -0%

MWD Surveys_Pioneer_University 3-19 - 33H_P1V3_MD:10197'INC: 62.39° AZM: 5.49° TVD: 10053.13 N/S: 386.77 E/W: 45.63DLS: 6.80° VS: 387.63Gam: 150AAPI/Temp 153° At Bit: MD: 10256'/INC:65.99°/ AZM: 6.13°/ BRN: 5.9/MY: 12.4/Left:5 Above: 25

Rot time / footage -25% -63.25
Sld time / footage - 75%-189'

Time Log Summary

Operation	Com	Dur (hr)
BHA_HAN DLING	M/U motor, scribe motor and install mwd tool. Surface test motor and mwd tool. (Good) Make up bit with 18k. 2-Gen-online	1.5
TIH	TIH F/ bha T/ 9,961' filling pipe every 30 stands. Note: Hole giving proper displacement to trip tanks. Note: Break circulation @ 8,868' and orient motor to HS to trip through curve. 2-Gen-online	4
LOG	Re-log last 50' drilled F/ 9,961' T/ 10,012' w/ 154 spm, 495 gpm 2,812'. 3-Gen-online	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 43' @ 14 ft/hr: 15-30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-450 psi Diff, 3280 psi SPP, 1k TQ, 10L GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone	3
DRL_ROT	Rotate 12' @ 24' FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 80% Shale 20% Limestone	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 31' @ 15.5 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-450 psi Diff, 3280 psi SPP, 1k TQ, 10L GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone R2LB- Hot Work Repair solid control equipment	2
RIG_SVC	Service Top Drive and Rig	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 52' @ 13 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-450 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone	4
DRL_ROT	Rotate 12' @ 24' FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 30% Shale 70% Limestone	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 18' @ 12 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-450 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone	1.5
DRL_ROT	Rotate 13' @ 26' FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 70% Shale 30% Limestone	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 18' @ 18 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone	1
DRL_ROT	Rotate 14' @ 28' FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 80% Shale 20% Limestone	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 18' @ 9 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate 13 @ 13' FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 80% Shale 20% Limestone	1
DRL_SLID E	Slide Drill 8-1/2" Curve 9' @ 9 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone	1

Report #: 28 Daily Operation: 3/24/2015 06:00 - 3/25/2015 06:00						
Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
46	27	10,875.0	10,159.6	11.30	H & P, 638	

Operations Summary
Slide and rotate curve F/ 10,265'T/ 10,639' and land curve. Rotate and slide lateral section F/ 10,639' T/ 10,875'

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 26.82
Days since SPUD: 20.64

Rig NPT: 0 Hrs for previous 24 Hours. 3.25 Total for March.

MWD Surveys_Pioneer_University 3-19 - 33H_P1V3_MD:10797'INC: 90.49° AZM: 4.84° TVD: 10161.08 N/S: 966.34 E/W: 109.21 DLS: 0.24°VS: 968.38
Gam: 154 AAPI/Temp 163° /Left: 9 Below: 2

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral -3%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr
Rot time / footage -58%-279
Slid time / footage - 42%-203'

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Curve 10' @ 20 ft/hr: 43k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 300 psi Diff, 2950 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.4 Vis 65 Notes: 50% shale 50% Lime.	0.5
DRL_ROT	Rotate Drill 8-1/2" Curve 16' @ 32 ft/hr: 30k WOB, 40 TDS RPM, 156 spm, 502 gpm, 145 MMTR RPM, 500 psi Diff, 3050 psi SPP, 8k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 64 Connection @ 10287' MD. Survey @ 10229' MD: 64.49° Inc, 5.81° Az. Slide Drill next stand Notes: 50% shale 50% Lime	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 16' @ 16 ft/hr: 45k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 250 psi Diff, 3000 psi SPP, 0k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 64 Notes: 60% shale 40% Lime.	1
DRL_ROT	Rotate Drill 8-1/2" Curve 15' @ 30 ft/hr: 45k WOB, 40 TDS RPM, 156 spm, 502 gpm, 145 MMTR RPM, 400 psi Diff, 3200 psi SPP, 10k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 64 Connection @ 10319' MD. Survey @ 10260' MD: 66.4° Inc, 6.49° Az. Slide Drill next stand Notes: 70% shale 30% Lime. MWD Surveys_MD: 10260' INC: 66.40° AZM: 6.49° TVD: 10080.32 N/S: 443.29 E/W: 51.47 DLS: 6.48° VS: 44.26 Gam: 58 AAPI/ Temp 155° At Bit: MD: 10319' /INC: 69.48°/AZM: 7.65°/BRN: 6.0/MY: 11.0 /Left:7.7 Above:25.7. Note: Safety stand down on 2 point during all phases of operation.	0.5
SAFETY	Safety stand down: Topic 2 point settings during all operations. 2 point settings should and will be checked every tour change and each time there is a change in operations trips, casing runs and after slip and cut's. Not following protocol will result in termination due to safety standards.	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 17' @ 11 ft/hr: 45k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 400 psi Diff, 3000 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 64 Notes: 20% Shale 80% Lime.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 15' @ 30 ft/hr: 35k WOB, 40 TDS RPM, 156 spm, 502 gpm, 145 MMTR RPM, 450 psi Diff, 3050 psi SPP, 9k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 64</p> <p>Connection @ 10351' MD. Survey @ 10292' MD: 68.29° Inc, 6.26° Az. Slide Drill next stand</p> <p>Notes: 20% Shale 80% Lime. MWD Surveys_MD: 10292' INC: 68.29° AZM: 6.26° TVD: 10092.64 N/S: 472.64 E/W: 54.75 DLS: 5.94° VS: 473.66 Gam: 114 AAPI/ Temp 155° At Bit: MD: 10351' /INC: 71.68°/AZM: 6.89°/BRN: 5.93/MY: 11.8 /Left:8.4 Above:25.2.</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 15' @ 15 ft/hr: 45k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 350 psi Diff, 3150 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 64</p> <p>Notes: 70% Shale 30% Lime.</p>	1
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 17' @ 34 ft/hr: 35k WOB, 40 TDS RPM, 156 spm, 502 gpm, 145 MMTR RPM, 400 psi Diff, 3200 psi SPP, 9k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 64</p> <p>Connection @ 10383' MD. Survey @ 10324' MD: 70.68° Inc, 6.39° Az. Slide Drill next stand</p> <p>Notes: 60% Shale 40% Lime. MWD Surveys_MD: 10324' INC: 70.68° AZM: 6.39° TVD: 10103.86 N/S: 502.42 E/W: 58.05 DLS: 7.48° VS: 503.51 Gam: 186 AAPI/ Temp 157° At Bit: MD: 10383' /INC: 74.40°/AZM: 7.07°/BRN: 5.2/MY: 14.0 /Left:9.1 Above:24.3</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 12' @ 24 ft/hr: 44k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 350 psi Diff, 3150 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 65</p> <p>Notes: 60% Shale 40% Lime.</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 19' @ 38 ft/hr: 30k WOB, 40 TDS RPM, 156 spm, 502 gpm, 145 MMTR RPM, 400 psi Diff, 3200 psi SPP, 9k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 65</p> <p>Connection @ 10414' MD. Survey @ 10355' MD: 72.76° Inc, 6.91° Az. Slide Drill next stand</p> <p>Notes: 70% Shale 30% Lime. MWD Surveys_MD: 10355' INC: 72.76° AZM: 6.91° TVD: 10113.58 N/S: 531.66 E/W: 61.46 DLS: 6.90° VS: 532.81 Gam: 127 AAPI/ Temp 159° At Bit: MD: 10414' /INC: 75.64°/AZM: 7.99°/BRN: 5.5/MY: 13.3 /Left:9.6 Above:23.3'</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 13' @ 13 ft/hr: 32k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 200 psi Diff, 2950 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 65</p> <p>Notes: 70% Shale 30% Lime.</p>	1
DRL_ROT	<p>Rotate Drill 8-1/2" Curve 19' @ 38 ft/hr: 24k WOB, 40 TDS RPM, 156 spm, 502 gpm, 145 MMTR RPM, 450 psi Diff, 3200 psi SPP, 9k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.3 Vis 65</p> <p>Connection @ 10446' MD. Survey @ 10387' MD: 74.88° Inc, 7.22° Az. Slide Drill next stand</p> <p>Notes: 70% Shale 30% Lime. MWD Surveys_MD: 10387' INC: 74.88° AZM: 7.22° TVD: 10122.50 N/S: 562.16 E/W: 65.24 DLS: 6.69° VS: 563.38 Gam: 108 AAPI/ Temp 157° At Bit: MD: 10446' /INC: 77.78°/AZM: 7.74°/BRN: 5.1/MY: 14.2 /Left:9.9 Above:22.0</p>	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 10' @ 20 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone</p>	0.5
DRL_ROT	<p>Rotate 21 @ 42' FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 80% Shale 20% Limestone</p>	0.5
RIG_SVC	Service rig and Top Drive	0.5
DRL_SLID E	<p>Slide Drill 8-1/2" Curve 19' @ 19 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 80% Shale 20% Limestone</p>	1
DRL_ROT	<p>Rotate 13 @ 26' FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 90% Shale 10% Limestone</p>	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Curve 17' @ 11 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 95% Shale 5% Limestone	1.5
DRL_ROT	Rotate 14 @ 28' FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 90% Shale 10% Limestone	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 5' @ 10 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 95% Shale 5% Lime stone	0.5
DRL_ROT	Rotate 27' @ 27" FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 90% Shale 10% Limestone	1
DRL_SLID E	Slide Drill 8-1/2" Curve 12' @ 24 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 95% Shale 5% Lime stone	0.5
DRL_ROT	Rotate 27' @ 27" FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 90% Shale 10% Limestone	0.5
DRL_SLID E	Slide Drill 8-1/2" Curve 32' @ 21.3 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo- 95% Shale 5% Lime stone	1.5
DRL_ROT	Rotate 63' @ 42" FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 100% Shale 0% Limestone Note : Curve landed @ 3/25/2015 - 0130 hrs	1.5
DRL_SLID E	Slide Drill 8-1/2" Curve 25' @ 25 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 10L GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo-100% Shale	1
DRL_ROT	Rotate 133' @ 53.2" FPH, WOB 30K, GPM 504, Torque 7K-12K, SPP 3,200, TD-RPM 40, MM-RPM 145, DIFF 200-320. Full returns 3-Gen-online Geo- 100% Shale 0% Limestone	2.5
DRL_SLID E	Slide Drill 8-1/2" Curve 19' @ 19 ft/hr: 30k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 150-350 psi Diff, 3200 psi SPP, 1k TQ, 70L GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. 3-Gen-online. Geo-100% Shale	1

Report #: 29 Daily Operation: 3/25/2015 06:00 - 3/26/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days) 47	Days on Location (days) 28	End Depth (ftKB) 12,532.0	End Depth (TVD) (ftKB) 10,112.0	Dens Last Mud (lb/gal) 11.40	Rig H & P, 638	

Operations Summary

Rotate and slide lateral F/ 10,875' T/ 12,532'

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 27.82

Days since SPUD: 21.64

Rig NPT: 0 Hrs for previous 24 Hours. 3.25 Total for March.

MWD Surveys_Pioneer_University 3-19 - 33H_P1V3_MD:12405'INC: 92.31° AZM: 1.71° TVD: 10119.25 N/S: 2572.87 E/W: 141.97DLS: 0.51°VS: 2575.25
Gam: 99AAP/Temp 188° Projection to bit: MD 12464 INC: 92.31 AZM 1.71/Left:10 Below:4.0

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 21.6%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Rot time / footage -76% -1498'

Slid time / footage - 24%-159'

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Curve 75' @ 150 ft/hr: 28k WOB, 65 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 500 psi Diff, 3800 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 66 Connection @ 10950' MD. Survey @ 10891' MD: 92.03° Inc, 3.52° Az. Slide Drill next stand Notes: 90% Shale 10% Lime Gam: 138 AAP/ Temp 168° / Left: 5.2 Below: 3.09.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Curve 20' @ 40 ft/hr: 30k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 250 psi Diff, 3600 psi SPP, 0k TQ, 260L GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 66 Notes: 90% Shale 10% Lime.	0.5
DRL_ROT	Rotate Drill 8-1/2" Curve 453' @ 86 ft/hr: 30k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 550-600 psi Diff, 3850 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 66 Connection @ 11326' MD. Survey @ 11269' MD: 92.73° Inc, 0.23° Az. Rotate Drill next stand Connection @ 11421' MD. Survey @ 11364' MD: 92.66° Inc, 359.81° Az. Slide Drill next stand Notes: 90% Shale 10% Lime. Gam: 131 AAPI / Temp 177° / Left: 7.0 Below: 3.2.	5.25
DRL_SLID E	Slide Drill 8-1/2" Curve 18' @ 24 ft/hr: 18-28k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 250 psi Diff, 3650 psi SPP, 1k TQ, 115R GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 66 Notes: 90% Shale 10% Lime.	0.75
DRL_ROT	Rotate Drill 8-1/2" Curve 171' @ 114 ft/hr: 25-35k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 600 psi Diff, 3900 psi SPP, 15k TQ. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 66 Connection @ 11421' MD. Survey @ 11364' MD: 92.66° Inc, 359.81° Az. Rotate Drill next stand Connection @ 11516' MD. Survey @ 11459' MD: 90.63° Inc, 0.97° Az. Rotate Drill next stand Connection @ 11610' MD. Survey @ 11553' MD: 91.33° Inc, 1.25° Az. Rotate Drill next stand Notes: 90% Shale 10% Lime. Gam: 134 AAPI / Temp 176°.	1.5
RIG_SVC	Service TDS, crown and draw works.	0.5
DRL_ROT	Rotate Drill 8-1/2" lateral 95' @ 76 ft/hr: 34k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 600 psi Diff, 3900 psi SPP, 15k TQ. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 66 Connection @ 11707' MD. Survey @ 11648' MD: 89.79° Inc, 358.62° Az. Slide Drill next stand Notes: 90% Shale 10% Lime. 1816.61 Gam: 127 AAPI / Temp 181° / Left: 12.5 Below: 3.8.	1.25
DRL_SLID E	Slide Drill 8-1/2" lateral 20' @ 26 ft/hr: 30k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 450 psi Diff, 3750 psi SPP, 1k TQ, 45R GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 66 Notes: 100% Shale.	0.75
DRL_ROT	Rotate Drill 8-1/2" lateral 75' @ 75 ft/hr: 35-40k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 550 psi Diff, 3950 psi SPP, 15k TQ. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 65 Connection @ 11802' MD. Survey @ 11743' MD: 91.54° Inc, 358.49° Az. Slide Drill next stand Notes: 100% Shale / Gam: 131 AAPI / Temp 181° / Left: 16.8 Below: 5.3.	1
DRL_SLID E	Slide Drill 8-1/2" lateral 22' @ 44 ft/hr: 45k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 550 psi Diff, 3800 psi SPP, 0k TQ, 90 GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 65 Notes: 100% Shale.	0.5
DRL_ROT	Rotate Drill 8-1/2" lateral 70' @ 70 ft/hr: 30k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 600 psi Diff, 4000 psi SPP, 15k TQ. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 65 Connection @ 11897' MD. Survey @ 11838' MD: 90.98° Inc, 0.2° Az. Slide Drill next stand Notes: 100% Shale / 127AAPI/Temp 183° / Left:19 Below:5.0 .	1
DRL_SLID E	Slide Drill 8-1/2" lateral 31' @ 62 ft/hr: 15k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 350 psi Diff, 3700 psi SPP, 3k TQ, 70R GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.3 Vis 65 Notes: 100% Shale.	0.5
DRL_ROT	Rotate Drill 8-1/2" lateral 348' @ 99 ft/hr: 15k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 600 psi Diff, 4100 psi SPP, 16k TQ. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.5 Vis 65 Connection @ 12216' MD. Survey @ 10126' MD: 91.4° Inc, 1.95° Az. Slide Drill next stand Notes: 100% Shale 127AAPI/Temp 190° /Left:13 Below:6.0 .	3.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" lateral 23' @ 23 ft/hr: 35k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 250 psi Diff, 3750 psi SPP, 4k TQ, 55R GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.5 Vis 65 Notes: 100% Shale .	1
DRL_ROT	Rotate Drill 8-1/2" Lateral 211' @ 56 ft/hr: 40k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 550 psi Diff, 4050 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.5 Vis 65 Connection @ 12464' MD. Survey @ 12405' MD: 92.3° Inc, 1.71° Az. Slide Drill next stand Notes: 80% Shale 20% limestone @ 12,440 /99AAPI/Temp 188° / Left:10 Below:4.0 "	3.75
DRL_SLID E	Slide Drill 8-1/2" Lateral 25' @ 14 ft/hr: 35k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 175 psi Diff, 3750 psi SPP, 2k TQ, 145R GTF. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.5 Vis 65 Connection @ 12464' MD. Survey @ 12405' MD: 92.3° Inc, 1.71° Az. Slide Drill next stand Notes: 90% Shale 10% limestone .	1.75

Report #: 30 Daily Operation: 3/26/2015 06:00 - 3/27/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days) 48	Days on Location (days) 29	End Depth (ftKB) 13,335.0	End Depth (TVD) (ftKB) 10,108.9	Dens Last Mud (lb/gal) 11.50	Rig H & P, 638	

Operations Summary

Rotate and slide lateral F/ 12,532' T/ 13,335'

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 28.82

Days since SPUD: 22.64

Rig NPT: 0 Hrs for previous 24 Hours. 3.25 Total for March.

MWD Surveys_Pioneer_University 3-19 - 33-3H_P1V3 MD: 13257 INC: 88.6° AZM: 2.48° TVD: 10107.64 N/S: 3423.62 E/W: 179.85 DLS: 1.66° VS: 3426.6
Gam: 99 AAPI Temp:198° Projection to bit: MD:13316 INC:88.6 AZM:2.48 Below: 16 Right: 9

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 30.7%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Rot time / footage -67% -769'

Slid time / footage - 33%-34'

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Curve 226' @ 50 ft/hr: 38k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 600 psi Diff, 4150 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping 30bbl Low-vis sweeps as needed. MW 11.5 Vis 66 Connection @ 12748' MD. Survey @ 12689' MD: 89.65° Inc, 3.02° Az. Slide Drill next stand Notes: 60% Shale 40% Lime .	4.5
DRL_SLID E	Slide Drill 8-1/2" Curve 16' @ 4 ft/hr: 20-30k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 150 psi Diff, 3680 psi SPP, 2k TQ, 310L GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.5 Vis 66 Notes: 60% Shale 40% Lime .	3.75
DRL_ROT	Rotate Drill 8-1/2" Curve 79' @ 45 ft/hr: 35k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 400 psi Diff, 4000 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping 30bbl Low-vis sweeps as needed. MW 11.5 Vis 66 Notes: 60% Shale 40% Lime .	1.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Lateral 9' @ 4 ft/hr: 25k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 100 psi Diff, 3765 psi SPP, 6k TQ, 290L GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.5 Vis 66 Notes: 80% Shale 20% Lime	2
DRL_ROT	Rotate Drill 8-1/2" Lateral 464' @ 46 ft/hr: 40k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 550 psi Diff, 3975 psi SPP, 13k TQ. Full returns while circulating through pits. Pumping 30bbl Low-vis sweeps as needed. MW 11.5 Vis 66 Connection @ 13316' MD. Survey @ 13257' MD: 88.6° Inc, 2.48° Az. Slide Drill next stand Notes: 90% Shale 10% Lime	10
DRL_SLID E	Slide Drill 8-1/2" Lateral 8' @ 4 ft/hr: 20-30k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 550 psi Diff, 3680 psi SPP, 13k TQ, 300L GTF. Full returns while circulating through pits. Pumping Low-vis sweeps as needed. MW 11.5 Vis 66 Notes: 90% Shale 10% Lime Generators on line 3 Note: Pumping 30bbl low vis sweeps only during rotation.	2

Report #: 31 Daily Operation: 3/27/2015 06:00 - 3/28/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035209
Days From Spud (days) 49	Days on Location (days) 30	End Depth (ftKB) 14,084.0
	End Depth (TVD) (ftKB) 10,106.4	Dens Last Mud (lb/gal) 11.50
		Rig H & P, 638

Operations Summary
Rotate and slide lateral section F/ 13,335' T 14,000. Repair short in TDS at MCC house Rotate F/ 14,000 T/ 14,084.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 28.82
Days since SPUD: 22.64

Rig NPT: 4.75 Hrs for previous 24 Hours. 7.75 Total for March.

Pioneer_University 3-19 - 33-3H_P1V3 MD: 13919 INC: 89.3° AZM: 357.95° TVD: 10108.55 N/S: 4085.48 E/W: 182.5 DLS: 0.96° VS: 4088.37 Gam: 105
AAPI Temp: 201° Projection to bit: MD: 13978 INC: 89.3 AZM: 357.95 Below: 21 Left: 1 Sep. Factors: University 3-7-8: SF: 2.73 Center to Center: 925

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 39.2%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr
Rot time / footage -53% -726'
Sld time / footage - 27%-27'

Time Log Summary		
Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2 Lateral 16' @ 5.3 ft/hr: 32k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 100 psi Diff, 3700 psi SPP, 1k TQ, 345L GTF. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.5 Vis 66 Notes: 80% Shale 20% Lime	3
DRL_ROT	Rotate Drill 8-1/2" Lateral 156' @ 52 ft/hr: 38-40k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 560 psi Diff, 4290 psi SPP, 16k TQ. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.5 Vis 71 Connection @ 13410' MD. Survey @ 13351' MD: 89.86° Inc, 0.77° Az. Rotate Drill next stand Connection @ 13505' MD. Survey @ 13446' MD: 89.16° Inc, 0.61° Az. Rotate Drill next stand Notes: 80% Shale 20% Lime	3

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 285' @ 57 ft/hr: 38-40k WOB, 50 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 600 psi Diff, 4400 psi SPP, 17k TQ. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.5 Vis 71</p> <p>Connection @ 13600' MD. Survey @ 13541' MD: 90.07° Inc, 0.55° Az. Rotate Drill next stand</p> <p>Notes: 80% Shale 20% Lime. Contacted engineer and informed him that we had drpped to 21.8' below the line. Window was set at 5' high and 25' low. The decision was made to slow TDS to 50 rpm's and rotate another 90' and run another survey. The well built from 89.16* to 90.07.</p>	5
RIG_SVC	Service rig and Top drive.	0.5
DRL_ROT	<p>"Rotate Drill 8-1/2" Lateral 201' @ 57 ft/hr: 38-42k WOB, 50 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 615 psi Diff, 4500 psi SPP, 17k TQ. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.5 Vis 71</p> <p>Connection @ 13978' MD. Survey @ 13919' MD: 89.3° Inc, 357.95° Az. Slide Drill next stand</p> <p>Notes: 90% shale 10% lime.</p>	3.5
DRL_SLID E	<p>"Slide Drill 8-1/2" Lateral 11' @ 3 ft/hr: 20k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 50 psi Diff, 3850 psi SPP, 4k TQ, 45R GTF. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.5 Vis 72</p> <p>Notes: 90% Shale 10% lime"</p>	3.25
U_RIG	<p>Unable to function Top drive due to motor cable plug on Top drive motor shorted out at MCC house melting the plug and wire. Pulled up F/ 14,000' to 13,978' circulating and working pipe. Tool pusher called electrician in route to arrive on location 1 1/2 hrs. Replaced plug and test TDS.</p> <p>Note: Electrician showed up on location @ 03:00.</p>	4.75
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 84' @ 67 ft/hr: 38k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 600 psi Diff, 4425 psi SPP, 16k TQ. Full returns while circulating through pits. Pumping hi-vis sweeps as needed. MW 11.5 Vis 72</p> <p>Notes: 90% Shale 10% lime.</p> <p>Generator on line 3</p>	1

Report #: 32 Daily Operation: 3/28/2015 06:00 - 3/29/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days) 50	Days on Location (days) 31	End Depth (ftKB) 14,265.0	End Depth (TVD) (ftKB) 10,104.1	Dens Last Mud (lb/gal) 11.50	Rig H & P, 638

Operations Summary

Rotate and slide lateral F/14,073 T/ 14,265'. Circulate bottoms up X 3, tooth T/ BHA. Lay down directional motor, bit and mwd tool. Pull wear bushing, inspect same, wash out well head and install wear bushing. Pick up Weatherford lateral motor and surface test. (No test). Change out transducer on stand pipe and retest. (No test) Pull mwd tool and rebuild.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 29.82

Days since SPUD: 23.64

Rig NPT: 0 Hrs for previous 24 Hours. 7.75 Total for March.

Pioneer_University 3-19 -#33H_P1V3 MD: 14204 INC: 91.54° AZM: 358.07° TVD: 10106 N/S: 4370.21 E/W: 171.23 DLS: 2.7° VS: 4372.81 Gam: 111 AAPI Temp: 200° Projection to bit: MD: 14263 INC: 91.54 AZM: 358.07 Below: 19.2 Left: 18.3 Sep. Factors: University 3-7-8: SF: 1.70 Center to Center: 602

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 41.3%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Rot time / footage -46% -157'

Slid time / footage - 54%-24'

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 93' @ 46 ft/hr: 40k WOB, 50 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 600 psi Diff, 4450 psi SPP, 17k TQ. Full returns while circulating through pits. MW 11.5 Vis 74</p> <p>Connection @ 14168' MD. Survey @ 14109' MD: 89.16° Inc, 357.12° Az. Slide Drill next stand</p> <p>Notes: 90% Shale 10% lime.</p>	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
DRL_SLID E	Slide Drill 8-1/2" Lateral 24' @ 6 ft/hr: 20-30k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 150 psi Diff, 4000 psi SPP, 1k TQ, 70-90R GTF. Full returns while circulating through pits. MW 11.5 Vis 74 Notes: 90% Shale 10% lime.	4
DRL_ROT	Rotate Drill 8-1/2" Lateral 64' @ 42 ft/hr: 40k WOB, 70 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 450 psi Diff, 4300 psi SPP, 17k TQ. Full returns while circulating through pits. Pumping 30 bbl low-vis sweeps as needed. MW 11.5 Vis 74 Connection @ 14263' MD. Survey @ 14204' MD: 91.54° Inc, 358.07° Az. Drill next stand Notes: 90% Shale 10% lime. Contacted engineer and Superintendent that we are not getting the direction change in the slides that are needed. The decision was made to TOO H for lateral assembly and new bit. Below: 19.2 Left: 18.3 "	1.5
RIG_SVC	Service rig and Top drive.	0.5
CIRC	Circulate for TOO H for lateral assembly. Pump 1 low vis sweep and circulate bottoms up X3 w/ 170 spm, 553 gpm, 4150 psi, 100 TDS rpm, working pipe 90'. Check for flow. (Well static)1st bottoms up seen 30% increase of cuttings at shakers. 2nd bottoms up seen 5% increase at shakers and 3rd bottoms up shakers are clean.	2.5
TOOH	TOOH F/ 14,265' to 12,443' Note: Hole taking proper fill from trip tanks.	1.5
CIRC	Pump slug and perform flow check. (Well static)	0.25
TOOH	TOOH F/ 14,265' T/ BHA. Note: Hole taking proper fill from trip tanks.	6.75
BHA_HAN DLING	Drain motor, Break off bit and lay down Motor , bit and flex collar. Monitor well on trip tank. (Well static) Bit Grade: 1-1-WT-A-X-1-BT-PR	1
BHA_HAN DLING	MU directional BHA to drill lateral wellbore. Scribed motor and shallow test with 600 GPM and 460 PSI - Good test. Running on 1 generator	1.5
WEARBUS HING	Pick up wear bushing puller, back out lock down screws, pull wear bushing and lay down same, pick up mule shoe and wash out well head and reinstalled wear bushing. (ALL witness by PNR drilling foreman) Note: Confined space permit filled out.	1
BHA_HAN DLING	Surface test motor and mwd tool. (No test). Change out transducer on stand pipe and attempt to test, no test. Pull mwd tool and rebuild.	1
U_MWD	Pull MWD tool and rebuild due to tool not pulsing. **Ran 3 generators for 20hrs and 1 generator for 4hrs.**	0.5

Report #: 33 Daily Operation: 3/29/2015 06:00 - 3/30/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days) 51	Days on Location (days) 32	End Depth (ftKB) 14,649.0	End Depth (TVD) (ftKB) 10,095.4	Dens Last Mud (lb/gal) 11.55	Rig H & P, 638	

Operations Summary

Pull mwd tool and rebuild. Lay down motor, pick up new motor, scribe and surface test motor and mwd tool (Good). make up bit and TIH F/ BHA T/ 8635', Cut & slip drill line, Rig service, TIH F/8635' T/ 14,265' and Relog F/ 14,220 T / 14,265 . Slide and rotate lateral section F/ 14,265' T/ 14,649'.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 30.82

Days since SPUD: 24.64

Rig NPT: 3 Hrs for previous 24 Hours. 10.75 Total for March.

Pioneer_University 3-19 - #33H_P1V3 MD: 14505 INC: 90.98° AZM: 3.56° TVD: 10097.04 N/S: 4670.91 E/W: 172.58 DLS: 2.38° VS: 4673.47 Gam: 162
AAPI Temp:200° Projection to bit: MD:14564 INC:90.98 AZM:3.56 Below: 10 Left: 23 Sep. Factors: University 3-7-8: SF: 1.24 Center to Center: 459

Motor layed down due to possible junk serial # 675-5206

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 45.7%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Rot time / footage -62% -332'

Slid time / footage - 38%-52'

Time Log Summary		
Operation	Com	Dur (hr)
U_MWD	Changed out 2nd transducer and attempt to surface test motor and mwd tool, test failed. Pull mwd tool and build 2nd tool. (Found pulsar screen broke off tool). Laid down 1st motor and pick up new. Scribe motor and install mwd tool and test. (Test good). Make up bit to TIH. Motor layed down due to possible junk serial # 675-5206	2.5
TIH	TIH F/ BHA T/ 8,635. Note: Hole giving proper displacement to trip tanks. Note: Agitator installed @ 2,462' behind bha.	3.5
CUTDL	Slip and cut 75' of drill line. Reviewed safety critical JSA.	1.5
RIG_SVC	Service rig. Lubricate Drawworks and Topdrive.	0.5
TIH	TIH F/ 8,635 T/ 14,265' filling pipe every 30 stands. Note: Hole giving proper displacement to trip tanks. Note: Break circulation @ 8,868' and orient motor to HS to trip through curve. 2-Gen-online	3.5
CIRC	Relog hole F/14,220' to 14,265'.	0.75
DRL_SLID E	Slide Drill 8-1/2" Lateral 15' @ 4 ft/hr: 50k WOB, 156 spm, 502 gpm, 145 MMTR RPM, 175 psi Diff, 3700 psi SPP, 3k TQ, 70R GTF. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.3 Vis 65 Notes: 80% Shale 20% Lime.	3.25
DRL_ROT	Rotate Drill 8-1/2" Lateral 113' @ 41 ft/hr: 40k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 525 psi Diff, 5000 psi SPP, 20k TQ. Full returns while circulating through pits. Pumping 30 bbl Low vis sweeps as needed. MW 11.6 Vis 74 Notes: 90% Shale 10% Lime.	2.75
DRL_SLID E	Slide Drill 8-1/2" Lateral 25' @ 33 ft/hr: 25k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 525 psi Diff, 4850 psi SPP, 20k TQ, 90R GTF. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.6 Vis 74 Notes: 90% Shale 10% Lime.	0.75
DRL_ROT	Rotate Drill 8-1/2" Lateral 73' @ 41 ft/hr: 36k WOB, 70 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 500 psi Diff, 5050 psi SPP, 20k TQ. Full returns while circulating through pits. Pumping 30 bbl Low- vis sweeps as needed. MW 11.5 Vis 74 Notes: 80% Shale 20% Lime.	1.75
DRL_SLID E	Slide Drill 8-1/2" Lateral 12' @ 24 ft/hr: 30k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 325 psi Diff, 4925 psi SPP, 5k TQ, 135R GTF. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.5 Vis 74 Notes: 90% Shale 10% Lime.	0.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 146' @ 53 ft/hr: 30k WOB, 70 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 450 psi Diff, 5000 psi SPP, 21k TQ. Full returns while circulating through pits. Pumping 30 bbl Low-vis sweeps as needed. MW 11.5 Vis 74 Notes: 90% Shale 10% Lime. ** 3 gen on line**	2.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 34 Daily Operation: 3/30/2015 06:00 - 3/31/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035209		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
52	33	15,271.0	10,092.2	11.90	H & P, 638			

Operations Summary
 Rotate F/ 14,660' T/ 14,709', service rig, trouble shoot TDS, Rotate F/ 14,709' T/ 14,762'. Repair TDS oilier. Rotate and slide F/ 14,762' T/ 15,072', Circulate and work pipe, Rotate and slide F/ 15,072' T/ 15,162', Circulate and work pipe, Rotate and slide F/ 15,162' T/ 15,271'.Circulate and work pipe @ 15,271 to TOOH for motor failure.

Remarks
 Rig H&P 638 & Well Progress
 Move days: 5
 Total days on well: 31.82
 Days since SPUD: 25.64

Rig NPT: 3.5 Hrs for previous 24 Hours. 14.25 Total for March.

Pioneer_University 3-19 - #33H_P1V3 MD: 15167 INC: 90.07° AZM: 1.74° TVD: 10093.5 N/S: 5332.2 E/W: 200.59 DLS: 0.53° VS: 5335.2 Gam: 142 AAP1
 Temp:209° Projection to bit: MD:15238 INC:90.07 AZM:1.74 Below: 8 Left: 8 Sep. Factors: University 3-7-8: SF: 1.24 Center to Center: 464

Motor layed down due to possible junk serial # 675-5206

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 52.8%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr
 Rot time / footage -93% -606'
 Sld time / footage - 7%-16'

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Lateral 60' @ 30 ft/hr: 25k WOB, 70 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 350 psi Diff, 4600 psi SPP, 20k TQ. Full returns while circulating through pits. Pumping 30 bbl low vis sweeps as needed. MW 11.5 Vis 74 Connection @ 14671' MD. Survey @ 14600' MD: 90.42° Inc, 2.47° Az. Rotate Drill next stand Notes: 90% Shale 10% Lime Below: 9.6 Left: 20.0 .	2
RIG_SVC	Service TDS	0.5
U_RIG	Trouble shoot TDS due to throwing breaker in MCC house, showing TDS oilier pump fault. Note: Electrician bypassed oilier so to be able to drill stand down and be able to work on TDS in a safe position.	1
DRL_ROT	Rotate Drill 8-1/2" Lateral 53' @ 53 ft/hr: 25k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 450 psi Diff, 4800 psi SPP, 17k TQ. Full returns while circulating through pits. Pumping 30bbl Low Vis sweeps as needed. MW 11.5 Vis 74 Notes: 90% Shale 10% Lime.	1
U_RIG	Trace wires through drag chain and junction boxes looking for short in TDS oilier pump. Found a burnt plug in junction box in derrick. Repair plug and run out checking all electrical connection on TDS.	2.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 103' @ 41.2 ft/hr: 25k WOB, 90 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 450 psi Diff, 5000 psi SPP, 18k TQ. Full returns while circulating through pits. Pumping30 bbl Low Vis sweeps as needed. MW 11.5 Vis 74 Connection @ 14860' MD. Survey @ 14789' MD: 91.75° Inc, 3.26° Az. Slide Drill next stand Notes: 90% Shale 10% Lime. Raising mud weight from 11.5 to 11.8 due to high torque.	2.5
DRL_SLID E	Slide Drill 8-1/2" Lateral 16' @ 16 ft/hr: 33k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 250 psi Diff, 4950 psi SPP, 3k TQ, 230R GTF. Full returns while circulating through pits. Pumping 30 bbl Low Vis sweeps as needed. MW 11.5 Vis 74 Notes: 70% Shale 30% Lime.	1
DRL_ROT	Rotate Drill 8-1/2" Lateral 191' @ 42 ft/hr: 40k WOB, 50 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 400 psi Diff, 5300 psi SPP, 18k TQ. Full returns while circulating through pits. Pumping30 bbl Low Vis sweeps as needed. MW 11.8 Vis 74 Notes: 90% Shale 10% Lime.	4.5
CIRC	Pick up work pipe due trapped pressure motor trying to stall.Working pipe up and down circulating @ 550 gpm and rotating @ 50 rpm getting pressure to release.Had 300 psi trapped. Attempted to drill motor trying to stall again trapping 500 psi. Worked pipe up and down while circulating @ 550 gpm and rotating @ 50 rpm pressure released, Pumped 30 bbl Low-vis sweep and worked pipe until sweep cleared bit.	1
DRL_ROT	Rotate Drill 8-1/2" Lateral 90' @ 32 ft/hr: 35k WOB, 50 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 325-450 psi Diff, 5450 psi SPP, 14k TQ. Full returns while circulating through pits. Pumping30 bbl Low Vis sweeps as needed. MW 11.8 Vis 74 Notes: 90% Shale 10% Lime.	2.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Pick up work pipe due trapped pressure motor trying to stall.Working pipe up and down circulating @ 550 gpm and rotating @ 50 rpm getting pressure to release.Had 400 psi trapped.	0.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 109' @ 39 ft/hr: 32k WOB, 50 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 325-450 psi Diff, 5450 psi SPP, 16k TQ. Full returns while circulating through pits. Pumping 30 bbl Low Vis sweeps as needed. MW 11.8 Vis 74 Notes: 90% Shale 10% Lime. Note: Last 30' drilled having to run light weight due to motor trying to stall. If motor stalled, we were having to work trapped pressure off and dropping 1 pump.	2.75
CIRC	Pick up work pipe due trapped pressure motor trying to stall.Working pipe up and down circulating @ 550 gpm and rotating @ 50 rpm getting pressure to release.Had 360 psi trapped.Unable to drill due to motor stalling. Note: Contacted superintendent and engineer that mud motor had failed and was seeing stator rubber on the shakers. The decision was made to TOOH and change motor out.	0.5
CIRC	Working pipe and circulating bottoms due to motor failure. ** 3 Gen on line **	1.5

Report #: 35 Daily Operation: 3/31/2015 06:00 - 4/1/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035209
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)
53	34	15,586.0
	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)
	10,080.8	11.90
	Rig	H & P, 638

Operations Summary

Safety critical safety meeting on TOH, TOOH F/ 15,271 T/ BHA. Lay down bit, motor and MWD tool. Pick up and scribe new motor (Gyro Data) and install MWD tool. Surface test motor and MWD tool.(Good) Make up bit and TIH F/ BHA T/ 15,226'. Relog last 45' drilled. Rotate and slide lateral F/ 15,271 T/ 15,586'.

Remarks

Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 32.82
Days since SPUD: 26.64

Rig NPT: 16 Hrs for previous 24 Hours. 30.25 Total for March.

Pioneer_University 3-19 - #33H_P1V3 MD: 15467 INC: 93.08° AZM: 2.4° TVD: 10085.61 N/S: 5631.43 E/W: 219.68 DLS: 2.86° VS: 5634.76 Gam: 151
AAPL Temp:198° Projection to bit: MD:15538 INC:93.08 AZM:2.4 Below: 5 Right: 4

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 56.4%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Rot time / footage -87% -275'

Sld time / footage - 13%-40'

Time Log Summary

Operation	Com	Dur (hr)
U_MTR	Hold safety critical JSA on trips. TOOH F/ 15,271 T/ BHA laying down agitator on the way out. Note: Tripped out of lateral section @ 75 fpm. Hole taking proper fill from trip tanks.	6.5
U_MTR	Drain motor, break off bit and lay down motor, mwd tool and ubho sub. Pick up new motor and scribe. Surface test motor and mwd tool. (Test Good). Make Hughes DP506X jetted w/ 6 X 15's. SR# 7151216. Bit grade Z 613 O-O-ND- A-X-O-ND-DMF Motor: GyroData SR# GD675-176 6_7_5_0 .28 Bit to bend 4.53.	1.5
U_MTR	Pull wear bushing and inspect. Wash out well head and install wear bushing. Note: PNR drilling foreman witnessed pins backed off and reset. Confined space entry form filled out.	0.5
U_MTR	TIH F/ BHA T/ 15,226' filling pipe every 30 stands. Note:Picked up agitator after stand 26. NOV Agitator SR# 1815034-2 Shock sub NOV SR# W1815034-2.	6.75
U_MTR	Relog gamma F/ 15226' to 15,271'	0.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Lateral 168' @ 42 ft/hr: 17k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 325-450 psi Diff, 5350 psi SPP, 8-23k TQ. Full returns.MW 11.8 Vis 74 Notes: 90% Shale 10% Lime. Due to high torque swinging from 8 - 23k. Pumped 20 bbl weighted sweep saw 30% increase in cutting at shakers.Pumped 20 bbl low-vis sweep saw 40% increase in cutting at shakers.Pumped 20 bbl weighted sweep saw 30% increase in cutting at shakers. Torque holding at 13-15 k.	4
DRL_SLID E	Slide Drill 8-1/2" Lateral 25' @ 25 ft/hr: 0k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 350 psi Diff, 5200 psi SPP, 3k TQ, 80L GTF. Full returns. MW 11.8 Vis 74 Notes: 90% Shale 10% Lime.	1
DRL_ROT	Rotate Drill 8-1/2" Lateral 69' @ 46 ft/hr: 12k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 350 psi Diff, 5175 psi SPP, 20k TQ. Full returns. MW 11.8 Vis 74 Notes: 90% Shale 10% Lime.	1.5
DRL_SLID E	Slide Drill 8-1/2" Lateral 15' @ 30 ft/hr: 0k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 350 psi Diff, 5229 psi SPP, 0k TQ, 250L GTF. Full returns. MW 11.8 Vis 74 Notes: 90% Shale 10% Lime.	0.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 38' @ 38 ft/hr: 0k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 350 psi Diff, 5350 psi SPP, 22k TQ. Full returns. MW 11.8 Vis 74 Notes: 90% Shale 10% Lime. ** 3 Gen on line**	1

Report #: 36 Daily Operation: 4/1/2015 06:00 - 4/2/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
54	35	16,795.0	10,042.7	12.00	H & P, 638

Operations Summary
Rotate and slide lateral section F/ 15,586' T/ 15,805'.Rig service, Rotate and slide lateral section F/ 15,805' T/ 16,088',Perform clean up cycle,Rotate and slide lateral section F/ 16,088' T/ 16,795'

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 33.82
Days since SPUD: 24.64

Rig NPT: 0 Hrs for previous 24 Hours. 30.25 Total for March.

Pioneer_University 3-19 - #33H_P1V3 MD: 16698 INC: 92.31° AZM: 1.66° TVD: 10046.83 N/S: 6861.58 E/W: 232.67 DLS: 1.18° VS: 6864.92 Gam: 139
AAPI Temp:218° Projection to bit: MD:16754 INC:92.31 AZM:1.66Below: 5 Left: 8 Sep. Factors: University 3-6-3: SF: 2.25 Center to Center: 763

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 70.2%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr
Rot time / footage -95% -1178'
Slid time / footage - 5%-31'

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	"Rotate Drill 8-1/2" Lateral 219' @ 87 ft/hr: 20k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 500 psi Diff, 5550 psi SPP, 18k TQ. Full returns. MW 11.8 Vis 74 Notes: 90% Shale 10% Lime. "	2.5
RIG_SVC	Rig service and Top drive	0.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 283' @ 56 ft/hr: 15k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 400 psi Diff, 5550 psi SPP, 20k TQ. Full returns. MW 11.8 Vis 74 Notes: 70% Shale 30% Lime. Trace of pyrite.	5
CIRC	Perform clean up cycle, Due to high torque Working pipe and rotating @ 100 rpm. Pumped 20 bbl weighted sweep showed 30 % increase in cutting at shakers,Pumped 20 bbl low -vis sweep showed 15% increase in cutting at shakers. Pumped 20 bbl low-vis sweep showed 0% increase at shakers.Went back to drilling.	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 12' @ 24 ft/hr: 20k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 250 psi Diff, 5400 psi SPP, 15k TQ. Full returns. Backream full stand due to high torque . MW 11.8 Vis 74</p> <p>Notes: 90% Shale 10% Lime.</p>	0.5
DRL_SLIDE	<p>Slide Drill 8-1/2" Lateral 16' @ 32 ft/hr: 30k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 100 psi Diff, 5250 psi SPP, 3k TQ, GTF. Full returns.MW 11.8 Vis 74</p> <p>Notes: 90% Shale 10% Lime.</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 268' @ 53 ft/hr: 16k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 350 psi Diff, 5350 psi SPP, 16k TQ. Full returns.Back ream full stand due to high torque MW 12 Vis 78</p> <p>Notes: 80% Shale 20% lime</p> <p>.</p> <p>Note: Mud check at 12:00 YP- 17 and PV - 37 adding diesel and condition mud</p>	5
DRL_SLIDE	<p>Slide Drill 8-1/2" Lateral 15' @ 30 ft/hr: 25k WOB, 172 spm, 553 gpm, 160 MMTR RPM, 275 psi Diff, 5230 psi SPP, 9k TQ, 180 GTF. Full returns. MW 12 Vis 78</p> <p>Notes: 80% Shale 20% lime</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 258' @ 51 ft/hr: 20k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 125 psi Diff, 5250 psi SPP, 20k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 78</p> <p>Notes: 80% Shale 20% lime</p> <p>.</p> <p>Note: Drilling break @ 16,475' to 16,485', Gas at 475 units went up to 1890 units, Pick and flow checked (No Flow Well Static) and no mud cut.</p>	5
U_LOG	<p>Rack back stand and Relo gamma from 16,627' to 16,657'</p> <p>Note: Mud check at 23:00 YP- 17 and PV - 37 adding diesel and condition mud</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 138' @ 69 ft/hr: 20k WOB, 80 TDS RPM, 172 spm, 553 gpm, 160 MMTR RPM, 125 psi Diff, 5250 psi SPP, 20k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 78</p> <p>Notes: 80% Shale 20% lime</p> <p>.</p> <p>Mud check at 03:30 Note: Pumping 20 bbl graphite sweeps.(5 lb per bbl graphite) ** 3 Gen on line **</p>	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 37 Daily Operation: 4/2/2015 06:00 - 4/3/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days) 55	Days on Location (days) 36	End Depth (ftKB) 18,243.0	End Depth (TVD) (ftKB) 9,998.7	Dens Last Mud (lb/gal) 12.20	Rig H & P, 638	

Operations Summary

Rotate and slide lateral section F/ 16,795' T/ 17,417'. Rig service, Rotate and slide lateral section F/ 17,417' T/ 18,243'

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 34.82

Days since SPUD: 25.64

Rig NPT: 0 Hrs for previous 24 Hours. 0 Total for April.

INC: 92.24° AZM: 3.51° TVD: 10003.77 N/S: 8280.2 E/W: 268.63 DLS: 0.64° VS: 8283.98 Gam: 155 AAPI Temp:233° Projection to bit: MD:18174

INC:92.24 AZM:3.51 Below: 6 Left: 1

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 86.7%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Rot time / footage -92%% -1412'

Slid time / footage - 8%-36'

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Lateral 56' @ 28 ft/hr: 15-30k WOB, 80 TDS RPM, 172 spm, 533 gpm, 155 MMTR RPM, 200-350 psi Diff, 5250 psi SPP, 14-19k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 73 Notes: 90% Shale 10% lime . TR Pyrite Mud check @ 06:50 Note: Pumping 20 bbl graphite sweeps. (5 lb per bbl graphite) ** 3 Gen on line **	2
DRL_SLID E	Slide Drill 8-1/2" Lateral 26' @ 17 ft/hr: 25k WOB, 172 spm, 533 gpm, 155 MMTR RPM, 150 psi Diff, 5230 psi SPP, 9k TQ, 220 GTF. Full returns. MW 12 Vis 73 Notes: 90% Shale 10% lime TR Pyrite	1.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 540' @ 67 ft/hr: 15-30k WOB, 80 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 450 psi Diff, 5480 psi SPP, 14-19k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 54 Notes: 90% Shale 10% lime . TR Pyrite Mud check @ 14:30 Note: Pumping 20 bbl graphite sweeps. (5 lb per bbl graphite) Note: BOP drill 60 sec.	8
RIG_SVC	Service rig and Top drive. Inspected shaker screens for holes and seals on shakers beds.	0.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 10' @ 20 ft/hr: 15-30k WOB, 80 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 450 psi Diff, 5480 psi SPP, 14-19k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 54 Notes: 90% Shale 10% lime .	0.5
DRL_SLID E	Slide Drill 8-1/2" Lateral 10' @ 20 ft/hr: 25k WOB, 172 spm, 550 gpm, 155 MMTR RPM, 180 psi Diff, 5050 psi SPP, 0 TQ, 20 GTF. Full returns. MW 12 Vis 54 Notes: 90% Shale 10% lime .	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Lateral 804' @ 73 ft/hr: 15-30k WOB, 90 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 450 psi Diff, 5480 psi SPP, 14-19k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 56 Notes: 90% Shale 10% lime Mud check @ 23:30 Note: BOP drill 60 sec ** 3 Gen on line **	11

Report #: 38 Daily Operation: 4/3/2015 06:00 - 4/4/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035209	
Days From Spud (days) 56	Days on Location (days) 37	End Depth (ftKB) 19,323.0	End Depth (TVD) (ftKB) 9,958.2	Dens Last Mud (lb/gal) 12.50	Rig H & P, 638

Operations Summary

Trouble shoot MWD,Rotate and slide lateral section F/ 18,243' T/ 18,563.Trouble shoot MWD, Rotate and slide lateral section F/ 18,563' T/ 18,646',Rig sevice,Rotate and slide lateral section F/ 18,646' T/ 18,692', Trouble shoot MWD, Rotate and slide lateral section F/ 18,692' T/ 19,323'.

Remarks

Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 35.82
Days since SPUD: 26.64

Rig NPT: 3 Hrs for previous 24 Hours. 3 Total for April.

INC: 92.1° AZM: 1.99° TVD: 9992.05 N/S: 8564.31 E/W: 287.64 DLS: 2.46° VS: 8568.41 Gam: 143 AAPI Temp:233° Projection to bit: MD:18459 INC:92.1 AZM:1.99 Below: 2.7 Right: 12.2

Projection to bit F/ 18,692 to 19,400' (TD) 91.99 / 4.65 or 93.64 / 8.79

Completion Percentage: Surface- 100%, Intermediate - 100%, Curve- 100%, Lateral - 99%

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr
Rot time / footage -81%% -1007'
Slid time / footage - 19%-73'

Time Log Summary

Operation	Com	Dur (hr)
U_LOG	Trouble shoot MWD due to no survey reset 3 times survey ok	0.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 37' @ 74 ft/hr: 15-30k WOB, 90 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 450 psi Diff, 5480 psi SPP, 14-19k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 56 Notes: 90% Shale 10% lime	0.5
DRL_SLID E	Slide Drill 8-1/2" Lateral 22' @ 14.6 ft/hr: 30k WOB, 172 spm, 550 gpm, 155 MMTR RPM, 180 psi Diff, 5050 psi SPP, 0 TQ, 270 GTF. Full returns. MW 12 Vis 54 Notes: 90% Shale 10% lime	1.5
DRL_ROT	Rotate Drill 8-1/2" Lateral 72' @ 48 ft/hr: 15-30k WOB, 90 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 450 psi Diff, 5480 psi SPP, 14-19k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 56 Notes: 90% Shale 10% lime	1.5
DRL_SLID E	Slide Drill 8-1/2" Lateral 25' @ 16 ft/hr: 30k WOB, 172 spm, 550 gpm, 155 MMTR RPM, 180 psi Diff, 5050 psi SPP, 0 TQ, 240 GTF. Full returns. MW 12 Vis 54 Notes: 90% Shale 10% lime	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 69' @ 46 ft/hr: 15-30k WOB, 90 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 450 psi Diff, 5480 psi SPP, 14-19k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 56</p> <p>Notes: 90% Shale 10% lime</p> <p>.</p>	1.5
DRL_SLIDE	<p>Slide Drill 8-1/2" Lateral 26' @ 26 ft/hr: 30k WOB, 172 spm, 550 gpm, 155 MMTR RPM, 180 psi Diff, 5050 psi SPP, 0 TQ, 215 GTF. Full returns. MW 12 Vis 54</p> <p>Notes: 90% Shale 10% lime</p> <p>.</p>	1
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 69' @ 69 ft/hr: 15-30k WOB, 90 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 450 psi Diff, 5480 psi SPP, 14-19k TQ. Full returns.Back ream full stand due to high torque. MW 12.2 Vis 56</p> <p>Notes: 90% Shale 10% lime</p> <p>.</p>	1
U_LOG	<p>Trouble shoot MWD unable to get survey contacted Superintendent and Eng discision was made to drill 200 more ft upon DD projection at the bit and try to get MWD working again.</p>	1
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 83' @ 55 ft/hr: 15-30k WOB, 90 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 500 psi Diff, 5600 psi SPP, 19-21 k TQ. Full returns.Back ream full stand due to high torque. MW 12.4 Vis 56</p> <p>Notes: 90% Shale 10% lime</p> <p>.</p>	1.5
RIG_SVC	<p>Service rig and Top drive.</p> <p>Inspected shaker screens for holes and seals on shakers beds.</p>	0.5
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 46' @ 92 ft/hr: 15-30k WOB, 90 TDS RPM, 172 spm, 550 gpm, 159 MMTR RPM, 350 - 500 psi Diff, 5600 psi SPP, 19-21 k TQ. Full returns.Back ream full stand due to high torque. MW 12.4 Vis 56</p> <p>Notes: 90% Shale 10% lime</p> <p>.</p>	0.5
U_LOG	<p>Trouble shoot MWD unable to get survey contacted Superintendent and Eng change out transducer,Circulate and work pipe,While waiting on orders.Discisicon was made to drill ahead with no INC or AZM. Open hole log will include INC and AZM.</p>	1.5
DRL_ROT	<p>Rotate Drill 8-1/2" Lateral 631' @ 63 ft/hr: 15-30k WOB, 90 TDS RPM, 169 spm, 540 gpm, 156 MMTR RPM, 350 - 500 psi Diff, 5675 psi SPP, 19-21 k TQ. Full returns.Back ream full stand due to high torque. MW 12.6 Vis 56</p> <p>Notes: 90% Shale 10% lime</p> <p>.</p> <p>Note: off bottom torque 12-15</p> <p>** 3 GEN on line **</p>	10

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 39 Daily Operation: 4/4/2015 06:00 - 4/5/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209
Days From Spud (days) 57	Days on Location (days) 38	End Depth (ftKB) 19,400.0	End Depth (TVD) (ftKB) 9,955.4	Dens Last Mud (lb/gal) 12.60	Rig H & P, 638

Operations Summary
 Rotate and slide lateral section F/ 19,323' T/ 19,400' (TD well),Perform clean up cycle,Flow check,TOOH F/ 19,400' to 14,150', TIH F/ 14,150' to 19,400',Perform clean up cycle,Flow check, TOOH F/ 19,400' to 10,600'.

Remarks
 Rig H&P 638 & Well Progress
 Move days: 5
 Total days on well: 36.82
 Days since SPUD: 27.64

 Rig NPT: 0 Hrs for previous 24 Hours. 3 Total for April.

 INC: 92.1° AZM: 1.99° TVD: 9992.05 N/S: 8564.31 E/W: 287.64 DLS: 2.46° VS: 8568.41 Gam: 143 AAPI Temp:233° Projection to bit: MD:18459 INC:92.1
 AZM:1.99 Below: 2.7 Right: 12.2

 TD well @19,400 08:00 4/4/2015

 Projection to bit F/ 18,692 to 19,400' (TD) 91.99 / 4.65 or 93.64 / 8.79

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

 Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr
 Rot time / footage -100%-77'
 Sld time / footage - 0%-0'

Time Log Summary

Operation	Com	Dur (hr)
DRL_ROT	Rotate Drill 8-1/2" Lateral 77' @ 38 ft/hr: 15-30k WOB, 90 TDS RPM, 169 spm, 540 gpm, 156 MMTR RPM, 350 - 500 psi Diff, 5675 psi SPP, 19-21 k TQ. MW 12.6 Vis 56 Notes: 90% Shale 10% lime Note: TD @ 4-4-15 08:00 @ 19,400'--- pipe count on surface and in hole pipe count correct. Note: off bottom torque 12-15	2
CIRC	Flow check and simulate a 15 min connection, Circ K&M cleanup cycle 6 B/U. Rotate and reciprocate the pipe 95' at 110 rpm up and 100 rpm down, 560 gpm, 5300 spp, and 10/12K torque. Saw increase of 20% across shakers at first bottoms up medium and small cuttings. no increase in gas 420/450 units, on last bottoms up shakers clean and gas @ 175 units, MW 12.6 VIS 54 in/out Note: Rig service.	6.75
TOOH	Flow check (no flow)	0.25
TOOH	TOOH F/19400' to 18,980' wet no issues,pumped slug and TOOH F/18,980' to 14,150' monitor well on trip tanks, Well taking proper fill.	2
TIH	TIH F/14,150' to 19,499' taking returns in trip tank,hole giving proper displacement. Washed last stand to bottom.	3
CIRC	Circ K&M cleanup cycle 5 B/U. Rotate and reciprocate the pipe 95' at 110 rpm up and 100 rpm down, 564 gpm, 5530 spp, and 10/11K torque. Saw increase of 10% across shakers at first bottoms up medium and small cuttings. Max gas 489 units after short trip, on last bottoms up shakers clean and gas @ 183 units, MW 12.6 VIS 58 in/out ** 3 Gen on line**	5.25
TOOH	Flow check (no flow)	0.25
TOOH	TOOH F/19,400' to 18,980' wet no issues,pumped slug and TOOH F/18,980' to 10,600' monitor well on trip tanks, well taking proper fill. Note: BOP test 7 day extension 4/7/15 to 4/14/15 (Job # 1123). David Brinkley spoke to IKE with TRRC about extension. ** 2 Gen on line**	4.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 40 Daily Operation: 4/5/2015 06:00 - 4/6/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035209		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
58	39	19,400.0	9,955.4	12.80	H & P, 638			

Operations Summary
TOOH F/10,600' to 8,600', Cut and slip drill line,TOOH F/8,600' to BHA, Lay down BHA,Pull wear bushing and wash wellhead, Rig service, Pick up logging tools, TIH with logging tools F/ 171' to 18,000'.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 37.82
Days since SPUD: 28.64

Rig NPT: 0 Hrs for previous 24 Hours. 3 Total for April.

INC: 92.1° AZM: 1.99° TVD: 9992.05 N/S: 8564.31 E/W: 287.64 DLS: 2.46° VS: 8568.41 Gam: 143 AAPI Temp:233° Projection to bit: MD:18459 INC:92.1
AZM:1.99 Below: 2.7 Right: 12.2

TD well @19,400 08:00 4/4/2015

Projection to bit F/ 18,692 to 19,400' (TD) 91.99 / 4.65 or 93.64 / 8.79

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

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr
Rot time / footage -100%% -77'
Sld time / footage - 0%-0'

Time Log Summary

Operation	Com	Dur (hr)
TOOH	TOOH F/10,600' to 8,600' monitor well on trip tanks, well taking proper fill.. ** 2 Gen on line**	1.5
CUTDL	Slip and cut 110' drill line, monator well on trip tanks.	1
TOOH	TOOH F/8,600' to BHA monitor well on trip tanks, well taking proper fill..(L/D 45 jnts due to derrick space).	3.5
BHA_HAN DLING	Drain motor, break off bit and lay down motor, mwd tool and ubho sub.	2.5
WEARBUS HING	Pull wear bushing and inspect. Wash out well head and install wear bushing. Note: PNR drilling foreman witnessed pins backed off and reset. Confined space entry form filled out.	0.5
RIG_SVC	Rig service and clean rig floor	0.5
BHA_HAN DLING	PJSA W/Weatherford loggers,H&P, and PNR on picking up and TIH with Compact memory logs, Strap and caliper wash pipe and 3 1/2 drill pipe and all subs,C/O elevators to 3 1/2 and pickup all logging tools . Note : Log will be retrieving Spectral Gamma Ray, Array Induction and Micro Imager/inclination and azimuth data/caliper.	4
TIH	TIH with logging toolsF/ 171' to 18,000',Taking returns in trip tank,Hole giving proper displacement. Note:TIH in casing @ 150 ft /min with logging tool.TIH in open hole @100 ft/min with logging tool Per Weatherford. Note:(Rabbit pipe out derrick.) ** 2 Gen on line ** for 15hrs. ** 3 Gen on line ** for 9 hrs.	10.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 41 Daily Operation: 4/6/2015 06:00 - 4/7/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209
Days From Spud (days) 59	Days on Location (days) 40	End Depth (ftKB) 19,400.0	End Depth (TVD) (ftKB) 9,955.4	Dens Last Mud (lb/gal) 12.70	Rig H & P, 638

Operations Summary

Pick up drill pipe, Circulate, Install dart deploy logging tool, Trip out hole while logging F/ 19,400 to 8,431', TOO H F/ 8,431 to 5,800'.

Remarks

Rig H&P 638 & Well Progress

Move days: 5

Total days on well: 38.82

Days since SPUD: 29.64

Rig NPT: 0 Hrs for previous 24 Hours. 3 Total for April.

INC: 92.1° AZM: 1.99° TVD: 9992.05 N/S: 8564.31 E/W: 287.64 DLS: 2.46° VS: 8568.41 Gam: 143 AAPI Temp: 233° Projection to bit: MD: 18459 INC: 92.1 AZM: 1.99 Below: 2.7 Right: 12.2

TD well @ 19,400 08:00 4/4/2015

Projection to bit F/ 18,692 to 19,400' (TD) 91.99 / 4.65 or 93.64 / 8.79

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

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Rot time / footage -100%% -77'

Slid time / footage - 0%-0'

Time Log Summary

Operation	Com	Dur (hr)
TIH	TIH with logging tools F/ 18,000' to 19,400', Picking pipe up off piperack, taking returns in trip tank, Hole giving proper displacement. TIH in open hole @ 100 ft/min with logging tool Per Weatherford.	1.5
CIRC	Break circ and pump @ 4 bbl min, 1272 psi as per Weatherford Loggers	1
CIRC	Stand back 1 stand in derrick to space out for deployment of dart and dropped dart, pump DP displacement at 4 bpm for 70% of displacement and 2 bpm for last 30%, opened logging tool and circ @ 6 bpm total circ 1 1/2 b/u. Max gas 1165 units at b/u mw 12.6 in/out, gas 106 units when done circ.	4.5
TOOH	TOOH F/19400' to 8,431', Pulling @ 17 ft a min as per Weatherford no issues, monitor well on trip tanks, Well taking proper fill. Note : Log will be retrieving Spectral Gamma Ray, Array Induction and Micro Imager/inclination and azimuth data/calipe	14.75
CIRC	Check flow (Well Static), Pump slug	0.25
TOOH	TOOH F/8,431' to 5,800 at 100 ft / min per weatherford, Monitor well on trip tanks, well taking proper fill. ** 3 Gen on line 22 hr ** ** 2 Gen on line 2 hr **	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 42 Daily Operation: 4/7/2015 06:00 - 4/8/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035209
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Days From Spud (days) 60	Days on Location (days) 41	End Depth (ftKB) 19,400.0	End Depth (TVD) (ftKB) 9,955.4	Dens Last Mud (lb/gal) 12.60	Rig H & P, 638
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Operations Summary
TOOH F/ 5,800 to logging tools, Lay down weatherford logging tools, Rig service, Make up bit trip in hole to 8600', Cut and slip drill line, TIH F/ 8600' to 19,400', Perform clean up cycles, Trip out hole laying down 5" drill pipe @ 17,800'.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 39.82
Days since SPUD: 30.64

Rig NPT: 0 Hrs for previous 24 Hours. 3 Total for April.

INC: 92.1° AZM: 1.99° TVD: 9992.05 N/S: 8564.31 E/W: 287.64 DLS: 2.46° VS: 8568.41 Gam: 143 AAPI Temp: 233° Projection to bit: MD: 18459 INC: 92.1° AZM: 1.99 Below: 2.7 Right: 12.2

TD well @ 19,400 08:00 4/4/2015

Projection to bit F/ 18,692 to 19,400' (TD) 91.99 / 4.65 or 93.64 / 8.79

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

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Rot time / footage - 100% - 77'

Sld time / footage - 0% - 0'

Time Log Summary

Operation	Com	Dur (hr)
TOOH	TOOH F/ 5,800 to Logging tools @ 100 ft / min per weatherford, Monitor well on trip tanks, well taking proper fill. 2 gens on line	2
BHA_HAN DLING	EJSA and L/O Weatherford logging tools, monitor well on trip tanks.	2.5
WEARBUS HING	Pull wear bushing and inspect. Wash out well head and install wear bushing. Note: PNR drilling foreman witnessed pins backed off and reset. Confined space entry form filled out.	0.5
RIG_SVC	Rig service and clean rig floor	0.5
TIH	M/U bit and bit sub, P/U 24 jnts off rack and TIH to 8,600" for clean up run, Taking returns in trip tanks, Well giving proper displacement, Fill every thirty stands.	4
CUTDL	Slip and cut 85' Drill line, Monitor well on Trip tanks	1.5
TIH	TIH F/ 8,600' to 19,295' for clean up run, Taking returns in trip tanks, Well giving proper displacement, Fill every thirty stands. Wash to bottom. F/ 19,295' to 19,400'	6
CIRC	Circ K&M cleanup cycle 5 B/U. Rotate and reciprocate the pipe 95' at 110 rpm up and 100 rpm down, 560 gpm, 4168 spp, and 10/11K torque. Saw increase of 5% across shakers at first bottoms up small cuttings. Max gas 4512 units, (No mud cut) after Logging and trip in hole, On last bottoms up shakers clean and gas @ 55 units, MW 12.6 VIS 61 in/out. ** 3 Gen on line**	5
TOOH	TOOH F/ 19,400' to 18,916' wet no issues, pumped slug and TOOH Laying down 5" drill pipe F/ 18,916' to 17,800' monitor well on trip tanks, well taking proper fill. 2 gens on line 12 hrs, 3 gens on line 12 hrs...	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Report #: 43 Daily Operation: 4/8/2015 06:00 - 4/9/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035209
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Days From Spud (days) 61	Days on Location (days) 42	End Depth (ftKB) 19,400.0	End Depth (TVD) (ftKB) 9,955.4	Dens Last Mud (lb/gal) 12.60	Rig H & P, 638
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Operations Summary
TOOH & LD DP F/17,800' - srf. LD bit. Pull WB & wash WH. RD bells, elevators and bell guide. PJSM. RU Franks CRT & csg running equipment. PJSM. MU & test shoe track. Run 5 1/2" prod. csg to 1,030'.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 40.82
Days since SPUD: 31.64

Rig NPT: 0 Hrs for previous 24 Hours. 3 Total for April.

INC: 92.1° AZM: 1.99° TVD: 9992.05 N/S: 8564.31 E/W: 287.64 DLS: 2.46° VS: 8568.41 Gam: 143 AAPI Temp:233° Projection to bit: MD:18459 INC:92.1
AZM:1.99 Below: 2.7 Right: 12.2

TD well @19,400 08:00 4/4/2015

Projection to bit F/ 18,692 to 19,400' (TD) 91.99 / 4.65 or 93.64 / 8.79

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

Curve Landed @ 10,639' @ 3/25/2015 @ 0130hr

Time Log Summary

Operation	Com	Dur (hr)
D_PIPE	L/D drill pipe F/17,800' to 7,500' monitor well on trip tanks, well taking proper fill.	9
D_PIPE	L/D drill pipe F/7,500' monitor well on trip tanks, well taking proper fill. Break out bit, bit sib and X-over L/D same. Running 2 generators.	6.5
WEARBUS HING	Pull wear bushing and inspect. Wash out well head. Note: PNR drilling foreman witnessed pins backed off. Confined space entry form filled out.	0.75
RIG_SVC	Rig down bells, elevators and bell guide.	0.75
SAFETY	Held PJSM on Rigging up CRT and casing running tools. Discussed good communication, PPE, pinch points, crush hazards and RU procedure.	0.25
CASE	RU Franks external CRT, Tenacious Torque (Torque turn) and casing running equipment. Inspect all rigging.	2.75
SAFETY	Held PJSM on Running casing. Discussed running order, testing floats, thread lock to top of Toesleeve assembly, escape routes, good communication, max pressure with Toesleeve (2000 PSI) and torque specs.	0.25
CASE	MU 5 1/2" down jet float shoe, 1 joint shoe track, latch down float collar, 1 full joint and Weatherford toe sleeve assembly. Test floats separately -- Ok. Run 24 joints of 459 total joints of 5 1/2" 20# P-110 IC TXP-BTC production casing from surface to 1,030'. Average torque on threadlocked BTC shoe track/toesleeve assembly joints -- 8200 ft/lbs to the base of the diamond. Average torque on TXP-BTC -- 12,500 ft/lbs Verify top drive torque with line pull gauge. Fill pipe after 20 joints. Monitor displacement on trip tanks -- Correct. Running 2 Generators (running 3 gens - 12 hours, running 2 gens - 12 hours)	3.75

Report #: 44 Daily Operation: 4/9/2015 06:00 - 4/10/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035209
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Days From Spud (days) 62	Days on Location (days) 43	End Depth (ftKB) 19,400.0	End Depth (TVD) (ftKB) 9,955.4	Dens Last Mud (lb/gal) 12.70	Rig H & P, 638
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Operations Summary
Run 5 1/2" prod. csg F/1,030' - 17,414'. CBU at 8607' (Int shoe) & 15,008' (1/2 through lateral).

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 41.82
Days since SPUD: 32.64

Rig NPT: 0 Hrs for previous 24 Hours. 3 Total for April.

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

Contacted TRRC for upcoming production cement job at 1:00 on 4/10/15, spoke with Kay.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary		
Operation	Com	Dur (hr)
CASE	Run 85 joints of 459 total joints of 5 1/2" 20# P-110 IC TXP-BTC production casing from 1,030' to 3,340'. Average torque on TXP-BTC -- 12,500 ft/lbs Monitor displacement on trip tanks -- Correct. Running 2 Generators.	3.5
U_REQ_C ODE	On csg joint # 81, while m/u with CRT would not make up to diamond and get proper torque, Thread inspector visually inspected box and pin and verified thread was not cut properly , L/O 1 joint and C/O box, continued to rih w/5.5 csg.	1
CASE	Run 203 joints of 459 total joints of 5 1/2" 20# P-110 IC TXP-BTC production casing from 3,340' to 8,607' Average torque on TXP-BTC -- 12,500 ft/lbs Monitor displacement on trip tanks -- Correct. Running 2 Generators.	5.5
CIRC	Circ B/U @ 8,607' gpm 330, pp 1175, full returns. MW 12.7 in/out. Running 2 Generators.	1.5
CASE	Run 355 joints of 459 total joints of 5 1/2" 20# P-110 IC TXP-BTC production casing from 8,607' to 15,008' Average torque on TXP-BTC -- 12,500 ft/lbs. Filling on the fly with 11 strokes per joint. Monitor displacement on trip tanks -- Correct. Running 2 Generators.	8
CIRC	CBU at 15,008'. 330 GPM, 1200 PSI with full returns. MW in/out - 12.7 PPG. Running 2 Generators.	1.5
CASE	Run 412 joints of 459 total joints of 5 1/2" 20# P-110 IC TXP-BTC production casing from 15,008' to 17,414' Average torque on TXP-BTC -- 12,500 ft/lbs. Filling on the fly with 11 strokes per joint. Monitor displacement on trip tanks -- Correct. Running 3 Generators.	3

Report #: 45 Daily Operation: 4/10/2015 06:00 - 4/11/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035209	
Days From Spud (days) 63	Days On Location (days) 44	End Depth (ftKB) 19,400.0	End Depth (TVD) (ftKB) 9,955.4	Dens Last Mud (lb/gal) 12.60	Rig H & P, 638	

Operations Summary
Run 5 1/2" prod csg and land at 19,382'. CBU, EJSA. RU cmt equipment. Pump prod cmt job. RDMO cmt equipment. Install pack-off. EJSA, RD CRT. Flush lines and stack. EJSA, ND BOPE, NU A-cap & test. Clean mud tanks, rig & 3rd party equipment. RD prep for rig move.

Rig released at 6:00 on 4/11/15
Final Drilling report.

Remarks
Rig H&P 638 & Well Progress
Move days: 5
Total days on well: 42.82
Days since SPUD: 33.64

Rig NPT: 0 Hrs for previous 24 Hours. 3 Total for April.

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

Time Log Summary		
Operation	Com	Dur (hr)
CASE	Run 459 joints of 459 total joints of 5 1/2" 20# P-110 IC TXP-BTC production casing from 17,414' to 19,351' Average torque on TXP-BTC -- 12,500 ft/lbs. Filling on the fly with 11 strokes per joint. Monitor displacement on trip tanks -- Correct. Running 3 Generators.	2.5
CASE	P/U landing jnt and landed csg in well head as per Seaboard. Set depth/Shoe depth - 19,382' Float collar - 19,335.8' Toesleeve - 19,280.5' - 19,286.9' Running 1 generator	0.5
CIRC	Circ B/U @ 19,380' W/8 bpm, 1450 psi, mw 12.6 in/out, b/u gas 1143 units no mud cut.	2.5
SAFETY	EJSA w/Schlumberger, H&P, Franks, Weatherford toe sleeve Rep, PNR on rig up and pumping of cmt.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 3-19 33H

Time Log Summary						
Operation	Com					Dur (hr)
CMT	<p>Schlumberger test cement lines at 7,000 psi (Good test). Mix & pump cement as follows:</p> <p>Mud Push Express - 100 bbls @ 12.7 lb/gal. Mixed with 2.0 lb/bbl of mud push express B389, 2.0 gal/bbl of surfactant B220, 0.2 gal/bbl of anti foam D206, 5693.4 lb/bbl of weighting agent D031.</p> <p>Lead Slurry - 241 bbls @ 12.8 lb/gal, 1.50 yield, 7.824 gal/sk mix water Mixed with 75 lb/sk Cement D049, 0.5% BWOB Fluid Loss D227, 0.2% BWOB Antifoam D046, 0.3% BWOB Retarder D013, 3.0% BWOB D020 Extender, BWOB 0.1% Dispersant D065, BWOB Viscosifier 0.1% D028.</p> <p>Tail Slurry - 466 bbls @ 13.2 bl/gal, 1.37 yield, 6.907 gal/sk mix water. Mixed with 75 lb/sk cement D049, 0.4% BWOB fluid loss D167, 0.2% BWOB anti foam D046, 0.3% BWOB retarder D013, 3.0% BWOB extender D020, 0.1% BWOB dispersant D065,</p> <p>Displaced with 10 bbls of sugar water 8.32 lb/gal and 418 bbls. of Biocide water displacement 8.32 lb/gal, 0.1gal/bbl,Green-cide 25G,B244</p> <p>Displacement pressures - 50 BBL: 1475 PSI @ 8.1 BPM, 100 BBL: 1975 PSI @ 8 BPM, 150 BBL: 2580 PSI @ 8 BPM, 200 BBL: 3215 PSI @ 7.9 BPM, 250 BBL: 3100 PSI @ 5.7 BPM, 300 BBL: 3200 PSI @ 6.2 BPM, 350 BBL: 3250 PSI @ 6.1 BPM, 400 BBL: 2915 PSI @ 4.8 BPM.</p> <p>Bump plug @ 17.27 hrs 4/10/15 with 1,750 psi over final lift pressure of 2950 psi (4700 psi). Held pressure for 5 min, floats held. Released pressure @ 17.32 hrs, bled back 7 bbls.</p> <p>PNR representative observed tattle tail leave cement head when pumping down top plug.</p> <p>Note: Full returns during cement job, 59 bbls of contaminated mud push back to surface</p> <p>Toesleeve max pressures (20% safety factor) Max Circulating Pressure W/mud 3248 psi Max Circulating Pressure W/cmt 2936 psi Max Circulating Pressure W/Disp. 5432 psi</p>					5.5
CMT	Rig down Schlumberger cement head and lines off rig floor.					1
CASE	<p>Drain stack. Back off landing joint, install pack off, energize lock pins. L/D landing joint & running tool.</p> <p>Note: Confined work permit completed</p> <p>Start cleaning mud tanks and 3rd party equipment in back yard.</p>					1.5
SAFETY	Review EJSA on rigging down Franks CRT.					0.25
CASE	Rig down Franks CRT.					0.75
CIRC	Flush lines and stack, Mud Pumps, Choke Line, and Choke Manifold					1.5
NU_TEST	<p>Review EJSA. Confined space work permit completed. ND BOPE. Pull trip nipple and pollution pan, remove turn buckles, hang off stack on BOP wrangler. Nipple down flowline. RD Thomas oilfield equipment and Midland safety H2S equipment.</p> <p>Continue cleaning mud tanks, 3rd party equipment and rig.</p>					2.5
NU_TEST	<p>Nipple up and test abandonment cap to 500 PSI for 15 mins.</p> <p>Continue cleaning mud tanks, 3rd party equipment and rig.</p>					1
RDMO	<p>Pin top drive and unstringing blocks. Rig down and prep for rig move. Set BOP for travel.</p> <p>Mud tanks, 3rd party equipment clean. Continue cleaning rig.</p> <p>Moved all tubulars to Pembroke 4 1H.</p> <p>Rig released at 6:00 on 4/11/15 Final Drilling report</p>					4
Report #: 46 Daily Operation: 4/11/2015 06:00 - 4/12/2015 06:00						
Job Category ORIG DRILLING			Primary Job Type ODR		AFE Number 035209	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
64	44	19,400.0	9,955.4	12.60		
Operations Summary						
Remarks						
Time Log Summary						
Operation	Com					Dur (hr)