PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

API/UWI	Property Sub	Operator	State	County
42-383-39267-0000	927351-065	PIONEER NATURAL RESRC USA, INC	TEXAS	REAGAN

Field Name	Surface Legal Location
SPRABERRY (TREND AREA)	

Spud Date	TD Date	Drilling Rig Release Date	Frac Date	On Production Date	Initial Potential Date
5/17/2015	6/28/2015	7/3/2015	7/28/2015		

Ground Elevation (ft)	Original KB Elevation (ft)	PBTD (All) (ftKB)	Total Depth (All) (ftKB)	Total Depth All (TVD) (ftKB)
2,650.00	2,676.50		Original - 18,995.0	Original - 8,492.4

Report #: 1 Daily Operation: 5/15/2015 12:00 - 5/16/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
-1	1	0.0		8.40	H & P, 606

Operations Summary
Start Moving and setting in loads f/ University 2-20 50H t/ University 2-20 65H.

Remarks
Rig (H&P 606) & Well Progress: 0.75 Rig Move Days, 0 Days From Spud, 0.75 Total Days On Well, 0.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of May.

Completion percentage: Surface - 0%, Intermediate -0%, Vertical Production Hole - 0%, Curve - 0%, Lateral - 0%

Anticpated Spud 6:00 am 5/17/15

TIme Log Summary

Operation	Com	Dur (hr)
MOVE	Move rig in f/ Unv. 2-20 50H t/ Unv 2-20 65H. Lower Derrick, Sub and Drillers Cabin. Rig Down and load out VFD, Generators, MCC house, Water Tank, Mud Pumps, Mud tanks, Sub half's, Center Steel, Derrick, Man Camp, Solids Control equipment, Parts houses and Rig misc. Detox loads on wash bay prior to leaving old location, contaminated water being caught on plastic and sucked up w/ vac truck to prevent run off pollution. Rig: 100% rigged down 85% off of Old location 90% set in on New location 30% rigged up on New location Rig Move Equipment on location: 4 Cranes 8 Winch Trucks 3 Pole Trucks 2 Fork lifts	18

Report #: 2 Daily Operation: 5/16/2015 06:00 - 5/17/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
0	2	146.0	146.0	8.40	H & P, 606

Operations Summary
Finish Setting in Rig and Rig up 100%, Perform IADC inspection. Surface test mud delivery system. Pick up surface BHA. TIH to tag bottom.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 0 Days From Spud, 1.75 Total Days On Well, 1.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of May.

Completion percentage: Surface - 0%, Intermediate -0%, Vertical Production Hole - 0%, Curve - 0%, Lateral - 0%

TIme Log Summary

Operation	Com	Dur (hr)
MOVE	PJSM with H&P, Pioneer and Texas 21st Century Transportation day crews coming on shift. Continue MIRU operations. (6 hours to replace 2 sections of cable drag chain, two light fixtures and pressure manifold retro fit on the top-drive.) Pinned lower section of the derrick to the sub floor and raised the derrick at 16:00 hrs, Finish Rigging up misc. rig items to prepare for spud.	18
SFTY	Rig Manager, Drill Tek, Pioneer Rep and Pioneer Safety, Perform IADC prespud inspection.	1
RU	Install cellar pumps, stage and strap BHA. Get 17 1/2" stabizer, Bit and Crossovers on the floor. Surface Test mud delivery system to 4,700 psi. **Rig accepted @ 03:30 am 5/1/15.**	1.5
PU_BHA	Assemble 3 stands of 8" DC in order to prevent extra BHA handling while Drilling surface hole. Pick up and torque 17 1/2" stabalizer, Bit Sub, 17 1/2" Security SF65 PDC bit w/ 9x15 jets and XO sub.	3.5

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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 3 Daily Operation: 5/17/2015 06:00 - 5/18/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
1	3	619.0	619.0	8.40	H & P, 606

Operations Summary

Drill Surface hole f/ 146' t/619'. Circulate and condition hole. Run Gyro. TOOH. TIH w/ 13 3/8" surface casing f/ surface t/ 619'. Rig up cementers. Cement surface casing.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, .95 Day From Spud, 2.75 Total Days On Well, 2.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of May.

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

** Contacted TRRC (Tish) @ 7:45 for surface casing cement job **

TIme Log Summary

Operation	Com	Dur (hr)
PU_BHA	Finish M/U BHA. Tagged at 123'	1
DRL	Rotate Drill 17 1/2" Surface Section 164' @ 46.8'/hr, 90 spm, 350-400 gpm, 200-250 psi SPP, 30- 35 top drive rpm, 5-18K wob, 3-9K torque. 2 soap sticks and 1 poly stick on every other connection alternating with one half gallon liquid PHPA every other connection. Full returns to surface. ***Staged drilling parameters after stabilizer exited the conductor casing*** **Spud Well @ 7:15 am 5/17/15.**	3.5
SRVY	Run wireline survey @ 285' (Inc. = 0.4°)	0.5
DRL	Rotate Drill 17 1/2" Surface Section 329' @ 94'/hr, 190 spm, 730 gpm, 730 psi SPP, 50 top drive rpm, 5-18K wob, 4-10K torque. 2 soap sticks and 1 poly stick on every other connection alternating with one half gallon liquid PHPA every other connection. Full returns to surface.	3.5
CIRC	Circulate and condition hole - Pumped 2-50 bbl polymer sweeps surface to surface. ***Only a slight (<10%) increase in cuttings returned from the sweeps***	1.5
SRVY	RU VES wireline truck and Gyro tool. RIH and survey every 100'. Btm Hole Survey: Depth 612' Inc. 0.45° Azm 54.27°	0.5
CIRC	Circulate BU - Hole free and clear.	0.5
TOOH_ELEV	TOOH F/ 613' T/ Surface. No overpull, hole free and clear. Keeping hole full w/ 2" kill line.	1.5
L/D BHA	PJSM on laying down BHA. Break and lay out 17 1/2" SF65 Bit, Bit sub and Stabalizers.	0.5
SFTY	Clean and clear rig floor of all subs and bits after trip.	0.5
RIG_SVC	Planned Rig Service. Lubricate Drwks, TD, and Blocks	0.5
SFTY	Large colony of bee's swarmed in and settled on casing collar. Cleared all employees of areas and held a safety meeting. PNR reps and Tool pusher used enclosed track hoe to relocate casing joint to side of location to prevent incident. Est. colony size 500-600 bees.	1
RU	PJSM w/ HP, Butches and Pioneer Rep on RU casing equipment. RU Butches Casing equipment: Elevators, Spider, Power tongs and C Plate.	2
CSG_W/O WASH	PJSM with Butch's casing crew, H&P rig crew & PNR rep over running surface casing. Make up 13 3/8" 54.4# J-55 BT&C Float Shoe, 1 Jt of 13 3/8" 54.5# J-55 BT&C casing, 13 3/8" 54.5# J-55 float collar & 1 Jt of 13 3/8" 54.5# J-55 BT&C casing, Torque - 7,000 ft/lbs,Base of Diamond. Thread locked all threads in shoe track, including the joint on top of float collar & test- Good. TIH w/13 3/8" 54.5# J-55 BT&C casing to 609'.	2
CSG_WWASH	Wash 13 3/8" 54.5# J-55 casing to bottom f/ 609' t/ 619' 75 spm, 6.85 bpm, 95 psi. Full returns while washing to bottom. Casing on Bottom @ 1:30 pm 5/18/15 Float Shoe @ 619' Float Collar @ 570' Bow Spring Centralizers run middle of shoe joint, 5' above float collar, on collars of Jts. # 8 and 12 for a total of 4 centralizers.	0.5
CIRC	CIrculate 1.5 Casing volumes @ 80 spm. 7.3 bpm,150 psi. Full returns. **Rig down Butches casing crew in tandum.** 2 Generators online.	0.5

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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
RU	PJSM w/ HP, Schlumberger and Pioneer Rep on rigging up Cement equipment. Rig up Cement head, steel lines, wash out lines and Chichsans. **Load top plug with tattle tail into cementing head, witnessed by PNR Rep & SLB supervisor.**.	1.5
CMT	Schlumberger cemented 13-3/8" 54.5 ppf J-55 BTC Surface Casing as follows: Pressure test lines to 2,000 psi. 20 bbls 8.33 lb/gal of fresh water spacer. Tail Cement 487 Sks (148.1 BBL) of Class "C" Cement with 4.0% BWOB D020 Extender, 2.0% BWOB S001 CaCl2 , mixed @ 13.6 ppg, 1.71 ft3/sk yield, 8.94 gal/Sk mixing water. Drop top plug with tattle tail witnessed by PNR Co. Man & SLB Supervisor. Displace cement with 89.2 bbls of 8.33 ppg fresh water. Displaced final 10 bbls at 3 bpm & bump plug 500 psi over @ 788 psi, final lift pressure of 190 psi. Held pressure for 5 min, bled back 0.5 bbl Lift Pressures: 10 bbls - 6.1 bpm, 167 psi; 30 bbls- 6.1 bpm, 225 psi; 50 bbls - 6.1 bpm,277 psi; 70 bbls- 4.4 bpm, 245 psi; 88 bbls- 3 bpm, 190/ 800 psi bump plug @ 4:25 am 5/18/15. *** Full returns to surface throughout job *** > Returned 43 bbls of cement to surface > Took & weighted samples @ 15 bbls (tail) - 13.85 ppg.	1
RD	Rig down cement head and bowl	0.5
CMT	Make up 150' 1" pipe and top off conductor with 100 sacks of class C cement mixed @ 14.8 ppg (24 bbls total). Pumped 1.5 bbl's/min, 220 - 350 psi pressure. Full returns throughout top out job. Rig down cementers & iron. 1 Generator online.	1

Report #: 4 Daily Operation: 5/18/2015 06:00 - 5/19/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
2	4	619.0	619.0	8.40	H & P, 606

Operations Summary

Install and test Well head, Nipple up and Test BOPs, test casing, Install wear bushing, Perform Accumulator draw down test, PU Directional Intermediate BHA, TIH t/ Top of Float collar @ 570'.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 1.95 Day From Spud, 3.75 Total Days On Well, 3.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of May.

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

TIme Log Summary

Operation	Com	Dur (hr)
CMT	Wash and pump cement out of the cellar. Wash out & rig down Thomas Oilfield cellar pumps. Clean out cellar & move well head into position for installation **Confined space permit closed out for this job.** 1 Generator online.	1
WH	PJSM w/ HP Rig Crew, Welder, Weir Rep. & PNR Co. Man on cutting off surface pipe & wellhead Installation. Check for LEL contents in cellar, all clear. Cut off conductor 63 1/2" below GL, perform rough cut on 13-3/8" casing. Made final cut on 13-3/8" casing 51 1/8" below GL, top of well head @ 18" below GL (measurements confirmed by PNR representative, welder, and Weir Rep.). Install and level wellhead on 13 3/8" surface casing. Pre-heat & weld wellhead on casing. Cool down for 30 min then tested well head to 565 PSI for 10 min - Good test. *** Safe Work Permits: Confined Space Entry and Hot Work Permits open and in place*** ***Safe Work Permits closed for this job*** 1 Generator online.	5

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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
NU_BOPE	Hold PJSM with rig crew and Battle Torque and Tester. Install spacer spool and DSA on wellhead and N/U BOP. Install hydraulic control hoses, coflex choke line hose, kill line. Attach turn buckles and center BOP. Open all ram doors to verify ram sizes and and condition of rubber seals. *** Safe Work Permits: Confined Space Entry Permit opened and in place for this job*** Repaired crack on Shale Shaker basket in Tandem *** Safe Work Permit: New Hot Work Permit opened and in place for this job*** ***Hot Work Permit closed for this job***	7
TEST_BOPE	PJSM w/Battle Energy Services BOP Tester & Rig Crew on BOP Testing, P/U test plug, set plug in wellhead, close blind rams, Test Blind Rams, BOP Shell, Kill Line & Choke Line 250 psi/Low 5 minutes, 5,000 psi/High 5 minutes, test Annular 250 psi/ Low t/ 3,500 psi High, hold 5 minutes. Good Test. Test casing to 1,000 psi/30 minutes, Good Test.	5
WH	Install long wear bushing in f/ Intermediate section in well head. Tighten down two painted lock screws. Perform Accumulator draw down test. Test good. Laydown wearbushing running tool. All operations witnessed by HP Rig Manager, Driller and Pioneer Rep. **Safe work permit closed f/ this job.**	1.5
PU_BHA	PJSM On P/U BHA & BHA Handling w/ HP, Leam and PNR Rep. - Pick up and make up BHA # 2. Pick up new 12 1/4" Halliburton MM55DM PDC Bit with 1.50 bend 7:8-4.0 stg, 0.17 rpg fixed mud motor with 11 3/4 stabilizer on nose, Scribe tools, install MWD & Test MWD. Test Good. Note: Test MWD before making up bit.	3
TIH_ELEV	TIH f/104' t/ Top of Cement @ 570' w/ 9-8" DC's, jars (from wrangler), 3-8" DCs,3-stands HWDP (stands from derrick) 2 Generators online	1.5

Report #: 5 Daily Operation: 5/19/2015 06:00 - 5/20/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
3	5	3,348.0	3,346.1	9.10	H & P, 606

Operations Summary
Drill out 13 3/8" shoe track plus 10' of New hole, Perform FIT. Drill 12 1/4" Hole f/ 629' t/ 3,348' (2,729' of New hole.)

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 2.95 Day From Spud, 4.75 Total Days On Well, 4.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of May.

Completion percentage: Surface - 100%, Intermediate - 60%, Vertical Production Hole - 0%, Curve - 0%, Lateral - 0%

TIme Log Summary

Operation	Com	Dur (hr)
DRL_OUT	Drill cement & float equipment f/ 565' - 619', 84 spm, 350 gpm, 35 Top Drive rpm, 60 motor rpm, 90 total bit rpm, 810 psi. Full returns to surface. Float Collar @ 570' Shoe @ 619'	0.25
DRL	Drill 10' of new formation f/ 619' to 629'.	0.25
CIRC	Circulate hole clean for FIT test.	0.25
FIT/LOT	Perform FIT:MW 8.4 ppg in / out. Test to 11 ppg equivalent. 11 ppg - 8.4 ppg = 2.6 ppg x .052 x 619' = 83 psi. @ Shoe Depth TVD. Observed a 3 psi drop over 5 min. Pressure held at 80 psi f/ 5 min. (10.8 ppg EMW) Test good.	0.25

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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and slide drill 12 1/4" Intermediate - 2,729' @ 118' fph. MW 8.5-9.3+ ppg reserve pit water. Full returns, Pumping 2 soap sticks and 1 poly stick on every other connection alternating with one half gallon liquid PHPA every other connection. Full returns to surface. ***Staged drilling parameters after stabilizers exited the surface casing and again after the 8" D.C.'s exited the casing*** ***While Drilling, fluids in Reserve pit starting to brine and gain weight. Run water f/ fast line into suction side of reserve to help Maintain MW below 9.5 ppg as per Mud program.*** Last Survey MD 3165 feet INC 0.62 ° AZM 267.91 ° LEAM DD Plan #1: 4.4' Behind / 14.5' Right 2 Generators online.	23

Report #: 6 Daily Operation: 5/20/2015 06:00 - 5/21/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
4	6	4,635.0	4,633.0	9.10	H & P, 606

Operations Summary

Rotate and Slide Drill from 3,348' to 4,635'. Pump Sweep and Circulate hole clean for TOOH due to ROP.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 3.95 Day From Spud, 5.75 Total Days On Well, 5.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of May.

Completion percentage: Surface - 100%, Intermediate - 87%, Vertical Production Hole - 0%, Curve - 0%, Lateral - 0%

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and slide drill 12 1/4" Intermediate - 1,287' @ 55.9' fph. MW 9.2 ppg reserve pit water. Full returns, Pumping 2 soap sticks and 1 poly stick on every other connection alternating with one half gallon liquid PHPA every other connection. Full returns to surface. 2 Generators online	23
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL	Pump Sweep and Circulate to TOOH due to ROP. Contacted Drilling Engineer and the decision was made to TOOH due to ROP. Last Survey MD 4578 feet INC 0.44 ° AZM 122.19 ° TVD 4576.06 feet NS 2.31 feet EW 60.55 feet VS -1.01 feet DLS 0.38 °/100' CL 94.00 feet LEAM DD Plan #1: 17.0' Ahead / 2.2' Left Ran 2 Generators 24 Hours.	0.5

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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 7 Daily Operation: 5/21/2015 06:00 - 5/22/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
5	7	5,212.0	5,210.0	9.10	H & P, 606

Operations Summary

TOOH from 4635' due to low ROP. LD Bit and Motor. PU new Bit and Motor and TIH to 4635'. Drill from 4635' to TD at 5212'. Circulate 2 sweeps and TOOH. Rack Back BHA, LD motor and Bit.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 4.95 Day From Spud, 6.75 Total Days On Well, 6.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of May.

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

TIme Log Summary

Operation	Com	Dur (hr)
L/D BHA	Flow check well (wellbore static) 2 generators online	0.25
TOOH_ELEV	EJSA with H&P and PNR on tripping out of the hole. Trip out wet. Monitor and record hole fill using continuous fill with the trip tanks. Hole took correct fluid for calculated steel displacement.	5.25
L/D BHA	EJSA with H&P, Leam and PNR on handling BHA. Lay down MWD sensor, PU drain motor and remove bit and stabilizer. L/D motor. Function blind rams	1
PU_BHA	PU new 7 3/4" XD, 7/8, 4.0, 1.5° fixed mud motor with 11 3/4" stabilizer. Scribe and orient. Install MWD and surface test same. Made up Halliburton 12 1/4" MMD55D bit.	2
TIH_ELEV	TIH with new Bit and BHA to 4,542'. Moitoring Well on Trip tanks, correct Displacement.	3
TIH_NONELEV	Wash and Ream from 4,542' to 4,635'.	0.5
DRL	Rotate and slide drill 12 1/4" Intermediate - 577' @ 100.4' fph. MW 9.0 ppg reserve pit water. Full returns, Pumping 2 soap sticks and 1 poly stick on every other connection alternating with one half gallon liquid PHPA every other connection. Full returns to surface. 2 Generators online	5.75
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
CIRC	Circulate and condition hole to run casing - Pumped 2-40 bbls sweeps. No excess cuttings observed at surface. **Fluid caliper indicates approx. 45% washout.** Projected Borehole Position MD 5,205' INC 0.53° AZM 99.82° TVD 5203.22' VS 0.11' Bit Projection-HLLR North: 1.3 / East: 21.5 LEAM DD Plan #1: 20.0' Ahead / 1.3' Left	1.75
TOOH_ELEV	PJSM with Rig Crew and PNR Rep. on TOOH, 15 min flow check. Well static. TOOH to Run 9 5/8" Intermediate Casing, from 5,212' to 504' monitor over trip tank, hole taking proper fill.	2
L/D BHA	PJSM On BHA Handling, rack back 8" DC and double of 8" NMDC on left side of Derrick. LD Jars, X.O. Sub, Directional mtr and Bit. Ran 2 Generators 23.5 hours. Ran 1 Generator .5 hours.	2

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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 8 Daily Operation: 5/22/2015 06:00 - 5/23/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
6	8	5,212.0	5,210.0	9.15	H & P, 606

Operations Summary

Pulled Wear Bushing and Washed Well head. RU H&P CRT. MU 2 joint Shoe Track and Pump through. Run 9 5/8" Casing and Land at 5,168'. RU Schlumberger and Cement Casing. RD Schlumberger. Installed Pack-Off and RD CRT. ND BOP, Install Abandonment Cap, and Test. Prep Rig to Skid to University 2-20 64H. Rig Released at 06:00 on 5/23/15.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 5.95 Day From Spud, 7.75 Total Days On Well, 7.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of May.

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

TIme Log Summary

Operation	Com	Dur (hr)
WH	Remove wear bushing and inspect. Jet well head. Wear bushing had no signs wear. 1 Generator online.	1.5
RU	PJSM with H&P rig crew, H&P CRT crew & PNR representative over rigging up CRT & Casing tools. P/U & R/U H&P CRT & Casing equipment. Set and test 2 point calibration with CRT tools.	1
CSG_W/O WASH	PJSM M/U 9 5/8" BTC L-80 PDC drillable single valve jet down float shoe, onto 2 joint shoe track of 9 5/8" 40 lb/ft L80 BTC Casing. Verified zero SICP, open blind rams. M/U 9 5/8" BTC L-80 PDC drillable single valve float collar. Thread locked all threads from the shoe to the bottom of the float collar. M/U 1 joint of casing on top of float collar, fill and test floats. (Good) Full returns to surface. Run 9 5/8" L-80 BT&C Casing with H&P CRT tool, torquing each joint to 7,000 ft/lbs (Avg. of 10 jts. made up to base of triangle) from 143' to 5,176', Monitor returns over trip tank hole giving proper displacement, breaking circulation every 40 joints. 2 generators online Note: Had to LD 2nd Joint of Shoe Track due to damaged (egg shaped) Pin end.	9
CSG_WWASH	MU Casing Hanger and Landing Joint. RIH to land casing and tag approximately 29' short. Attempted to Wash casing to Bottom with no success. Contacted Drilling Engineer and the decision was made to LD one 47' joint of casing and PU one 10' pup joint to land. Concurrently: Circulate Casing Surface to Surface at 8 BPM (336 GPM), SPP 180, With Full Returns to Surface.	1.5
CSG_W/O WASH	LD Landing Joint, Casing Hanger, and one joint of casing. PU Pup Joint of casing, MU Casing Hanger, and PU Landing Joint. RIH with Casing hanger and Land Casing.	0.75
CMT	PJSM on RD casing Tool. RD casing Tools, (CRT is RU). PJSM with Schlumberger, Rig Crew, and PNR on RU Cement Equipment and Cement Job. RU Cement Equipment.	1.5
CMT	Cement 9 5/8" Intermediate casing per Schlumberger and PNR procedure. Casing Shoe at 5,168' Top of Float Collar at 5,072' Full circulation throughout job. Floats Held.	3
CMT	Flush BOP and Surface Lines with Sugar Water and Fresh Water. 1 Generator online.	0.5
RD	PJSM on RD Cement Equipment and RD Schlumberger. Well static.	0.5
WH	PJSM with Seaboard. Back out landing joint, MU and set packoff, test packoff to 5,000 psi for 5 minutes, LD landing joint. ***Safe Work Permit - Confined Space Entry***	0.75
RD	PJSM on RD CRT. RD CRT and casing running equipment.	1

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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
ND_BOPE	PJSM with HP, Battle and Pioneer rep. on nippling down BOP. Remove flow line and flow nipple, Install BOP wrangler, break spacer spool from well head and set back BOP. Install abandonment cap and test to 500 psi. Test Good. **Confined space permit in place. Continue to monitor for atmospheric changes.** **Rig Released @ 06:00 5/23/15.** Ran 1 Generator 8.5 hours. Ran 2 Generators 15.5 hours.	3

Report #: 9 Daily Operation: 6/14/2015 06:00 - 6/15/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
29	9	5,212.0	5,210.0	8.85	H & P, 606

Operations Summary

Skid Rig in f/ 2-20 64H, Nipple up BOPE, Body test spool breaks, (NPT) Replace BOP door seals, and Teco valve seats, Pick up BHA, TIH f/ 171' t/ 1,000'

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 6.95 Day From Spud, 8.75 Total Days On Well, 30.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of June.

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

TIme Log Summary

Operation	Com	Dur (hr)
SKID	PJSM with H&P and PNR Rep. on skidding the rig from University 2-20 64H to University 2-20 65H. Prep all lines, scaffoldings, skid rails and cylinders. skid rig. center rig over the hole and level. Verified by PNR Rep, H&P Rig Manager, and Driller. Concurrently: Stripping OBM in active mud pits to 8.8 ppg.and transferring it to the OBM storage frac tanks	3.5
NU_BOPE	PJSM with H&P, Battle Energy Services and PNR Co. Rep. on N/U BOPE. N/U BOPE, M/U Adaptor spool and set on well head. Torque all breaks, R/U flow line stand, RU flow line to BOP's. R/U all hoses, R/U choke line and torque. R/U turn buckles, center stack, R/U trip nipple, pollution pan, and R/U drain hoses under subs. ***Confined space permit in place.*** Concurrently: Stripping OBM in active mud pits to 8.8 ppg.and transferring it to the OBM storage frac tanks	4
TEST_BOPE	PJSM with H&P, Battle Energy Services and PNR Co. Rep. on BOP testing, Test choke line, BOP stack body, kill line, standpipe back to mud pumps to 250 low/ 5,000 high, held each test for 5 min. Test 9 5/8" casing t/ 2,500 psi. Walk up w/ rig pumps and chart, turn over to testing truck and hold f/ 30 min. Test good. Door gasket seal leaking on lower pipe ram. Replace door gasket. 4" valve on mud pump leaking by. Repair valve. 2" kill line valve on the standpipe valve mainfold leaking by. Repair valve. Concurrently: Stripping OBM in active mud pits to 8.8 ppg.and transferring it to the OBM storage frac tanks **Following Csg test went to Test against new 2" Kill line Valve and Check valve, both were leaking. Rig Manager went to retrieve parts. Begin other operations while awaiting return.** **HP Rig Manager was instructed by HP Superintendant Tony Smitt. Not to open BOP Doors until HP mechanical supervisor was on location.**	9
WH	Install Short Wear Bushing in Well Head. Tighten down two opposing lock Screws. Witness by PNR Rep. Perform Accum. Draw down test. Test Good. ***Confined Space Permit in place*** Concurrently: Stripping OBM in active mud pits to 8.8 ppg.and transferring it to the OBM storage frac tanks	1
RIG_SVC	Rig Service: Lubricate Drawworks, TDS and Blocks.	0.5
TEST_BOPE	Install new check valve gasket and reassemble 2" Kill line valve. Finish Test on 2" Valve. 250 low 5,000 high. Test good.	1
PU_BHA	PJSM on PU BHA & BHA handling with HP, Leam and PNR Rep. Pick up and make up BHA # 3 as well as Pioneer Special project tools. Pick up 6 3/4" XD, 7/8, 5.0, 2.0° 0.29 rpg, fixed bend mud motor with slick sleeve, Scribe tools, install & test MWD and motor, made up 8 3/4" Halliburton MMD55DM bit #3. Note: Tested MWD and mud motor before making up the bit, tested good. Concurrently: Stripping OBM in active mud pits to 8.8 ppg.and transferring it to the OBM storage frac tanks	4

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
TIH_ELEV	TIH f/ 171.09' t/ 1,000'. Run in 5 stands of HWDP out of Derrick to finish BHA. 2 Generators online.	1

Report #: 10 Daily Operation: 6/15/2015 06:00 - 6/16/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
30	10	6,376.0	6,362.8	8.90	H & P, 606

Operations Summary

TIH f/ 1,000' t/ 5,051' Tag Cement and Drill shoe track + 10' of new hole, Disp. to OBM, Perform FIT, Drill 8 3/4" hole f/ 5,222' t/ 6,376' (1,164' total) . No accidents or injuries.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 7.95 Day From Spud, 9.75 Total Days On Well, 31.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 40%, Curve - 0%, Lateral - 0%

TIme Log Summary

Operation	Com	Dur (hr)
TIH_ELEV	PJSM on TIH. Finish TIH f/ 1,000' t/ 5,051'. (Tagged cement at 5,051')	1.5
DRL_OUT	Establish circulation. Drill cement from 5,051' to float collar at 5,072'. Drill F.C. and shoe track. Drill float shoe at 5,168' with 325 gpm and 20 top-drive rpm's	3
DRL	Drill 10' of new formation to 5,222'	0.5
CIRC	Pumped a 20 bbl high vis. polymer sweep with 6 bags of cedar fiber for a marker ahead of 30 bbl diesel spacer. Diesel spacer to surface at calculated strokes. Diverted diesel to the trip tank. Circulate and condition mud weight to 8.8 ppg in/out prior to FIT. Shut down and flow check- well static. Check SPR.	2
FIT/LOT	PJSM on Performing FIT. Perform FIT with 8.8 ppg MW, (5,168' TVD) = 457 psi = 10.5 EMW. Pressure drop and stabilized at 397 psi in 5 min Leak-Off Calculated To 10.27 ppg EMW.	1
NU_BOPE	Install 5" D.P. RCH rubber element and bearing assembly	0.5
DRL	Rotate and slide drill 8 3/4" vertical production hole - 866' @ 82' fph. MW 8.8 ppg OBM. Full returns.	10.5
RIG_SVC	Service rig: Lubricate TDS, Drawworks and Blocks.	0.5
DRL	Rotate and slide drill 8 3/4" vertical production hole - 288' @ 64' fph. MW 8.8 ppg OBM. Full returns. Lithology: 5,250': 70% SH, 30% SD 5,480': 70% SD, 30% SH 5,640': 90% SH, 10% SD 5,810': 90% SH, 10% SD 6,050': 90% SH, 10% SD Last Survey MD 6232 feet INC 8.88 ° AZM 45.73 ° TVD 6221.22 feet NS 79.93 feet EW 155.67 feet VS -76.57 feet DLS 2.81 °/100' CL 94.00 feet LEAM DD Plan #1: 3.5' Ahead / Online Left-Right 2 Generators on line	4.5

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 11 Daily Operation: 6/16/2015 06:00 - 6/17/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
31	11	7,930.0	7,882.4	8.80	H & P, 606

Operations Summary

Drill 8 3/4" production hole f/ 6,376' t/ 7,930' (1,554' total). No accidents or injuries.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 8.95 Day From Spud, 10.75 Total Days On Well, 32.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 97%, Curve - 0%, Lateral - 0%

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and slide drill 8 3/4" vertical production hole - 1,509' @ 67' fph. MW 8.85 - 8.9 ppg OBM. Full returns. Gamma: 33 - 110 API Lithology: 6400' 90% SH 10% SD 6460' 60% SH 40% SD 6500' 80% SD 20% SH 6560' 50% SD 50% SH 6620' 50% SD 50% SH 6680' 70% SH 30% SD 6750' 80% SH 20% SD 6810' 50% SH 50% SD 6840' 60% SH 40% SD 6900' 70% SH 30% SD 6960' 80% SH 20% SD 7060' 80% SH 20% SD 7150' 80% SH 20% SD 7255' 60% SH 40% SD 7350' 80% SD 20% SH 7450' 80% SH 20% SD 7600' 90% SH 10% SD 7720' 90% SH 10% SD	22.5
RIG_SVC	Rig Service: Lubricate Drawworks, TDS, and Blocks.	0.5
DRL	Rotate and slide drill 8 3/4" vertical production hole - 45' @ 45' fph. MW 8.9 ppg OBM. Full returns. 2 Generators Online. Last Survey MD 7835 feet INC 12.40 ° AZM 152.78 ° TVD 7789.90 feet NS 182.95 feet EW 428.04 feet VS -173.72 feet DLS 3.88 °/100' CL 94.00 feet LEAM DD Plan #1: 35.0' Ahead / 22.0' Right** **Currently finishing planned Tangent and Turn preparing to Kick off @ TOC.**	1

Report #: 12 Daily Operation: 6/17/2015 06:00 - 6/18/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
32	12	8,294.0	8,229.5	9.00	H & P, 606

Operations Summary

Drill Vertical Production Hole Section from 7,930' to Kick off Point at 8,043'. Drill Curve Hole Section from 8,043' to 8,294'. Perform Clean up Cycle and TOOH due to Low Motor Yields. LD BHA. Pull Wear Bushing, Wash Wellhead, and Re-install Wear Bushing. MU new 8.75" Bit and 2.25° Motor.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 9.95 Day From Spud, 11.75 Total Days On Well, 33.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 33%, Lateral - 0%

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and slide drill 8 3/4" vertical production hole to KOP of 8,043' MD- 50' @ 45' fph. MW 8.9 ppg OBM. Full returns. Reached KOP @ 07:45 hrs on 6/17/2015 2 Generators Online.	0.75
DRL	Slide Drill 8 3/4" curve section 251' at 19.7 fph. HS TFO. MW 9.0 ppg OBM. Pumping 20 bbl High-Vis. sweeps as needed to assist in cleaning the wellbore. Full returns. Started drilling curve at 8,043' MD Lithology: 7810' 90% SH 10% SD 7840' 90% SH 10% SD 7870' 70% SH 20% LS 10% SD 7900' 70% SH 20% SD 10% LS 7920' 60% SD 40% SH 7980' 70% SD 30% SH 8040' 50% SD 50% SH 8060' 50% SH 40% SD 10% LS 8080' 70% SH 30% SD 8100' 80% SH 10% LS 10% SD 8150' 80% SH 20% LS 8180' 90% SH 10% LS 8200' 60% SH 30% LS 10% SD 8250' 60% SH 40% LS 8294' 80% SH 10% LS 10% SD	12.75
CIRC	After Check shot at 8247' a conference call was held with the Drilling Engineer, Drilling Superintendents, Leam Directional Driller, and PNR Reps due to low Motor Yields. The Decision was made to TOOH and change the BHA. Pumped 30 BBL Hi-Vis sweep and Circulated Surface to Surface with a 10% increase in cuttings when the sweep reached Surface. Circulated 2 Bottoms up at 538 GPM, 2972 SPP while working the Drill String with no Rotation. Shakers were clear after the Circulation. Concurrently built Slug and prepared for Trip.	2.5
FLOW_CHK	Flow Check Well. Well Static.	0.25
TOOH_ELEV	Pulled 10 stands from 8,294' to 7,414', moitoring well on trip tank. Hole taking correct fill, no excess drag. Flow check, Well static. Pump Slug and TOOH from 7,414' to 5,057' monitoring Well on Trip tanks, Hole taking correct fill.	1.75
RD	HPJSM on removing Rotating Head Element and installing Trip Nipple. Removed Rotating Head Element and installed Trip Nipple.	0.5
TOOH_ELEV	TOOH from 5,057' to 171' monitoring Well on Trip Tanks, Hole taking correct fill.	2.5
L/D BHA	Break and LD Pioneer Special project tools. LD 1 Joint of HWDP and extra Flex NMDC, drain Motor and break Bit. LD MWD tool, and LD Motor. Note: Function Tested BOP.	2
WH	Pull, clean and inspect Wear Bushing, Wash Wellhead. Re-install same. Witness by PNR Rep. ***Confined Space Permit in place*** Last Survey MD 8213 feet INC 20.58 ° AZM 192.50 ° TVD 8155.09 feet NS 88.77 feet EW 436.45 feet VS -79.38 feet DLS 5.49 °/100' CL 95.00 feet Leam DD Plan #1: 41.9' Ahead , 13.8' Right MY: 5.5 DLN: 11.9 2 Genarators 24 hours.	1

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 13 Daily Operation: 6/18/2015 06:00 - 6/19/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
33	13	8,783.0	8,491.6	9.00	H & P, 606

Operations Summary
MU Bit and Directional BHA. TIH to 8,294'. Drill Curve from 8,294' to 8,783'.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 10.95 Day From Spud, 12.75 Total Days On Well, 34.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of June.

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

TIme Log Summary

Operation	Com	Dur (hr)
PU_BHA	PJSM on PU BHA & BHA handling with HP, Leam and PNR Rep. P/U & M/U (BHA #5) 6-3/4" XD Motor 7/8, 5.0 stage @ 2.25° FBH w/ slick sleeve, 0.29 rpg. Scribe motor, orientate muleshoe sleeve, install MWD tool, Make up NMDC's, & perform surface test - 90 spm, 349 gpm, 750 psi (good). M/U 8-3/4" Halliburton MMD64DC PDC with 1.035 TFA. ? Tested MWD and mud motor before making up the bit, tested good. ? 2 Generators on line.	1.5
TIH_ELEV	TIH f/ 93' - 8,248'. Hole giving proper displacement to trip tank. Fill pipe every 30 stands. ? Run 5 stands of HWDP after NMDC's followed by DP. ? Pull trip nipple & install rotating head @ 5,020'	5
LWD	Fill Pipe, recycle pumps & re-log Gamma f/ 8,248' - 8,294' w/ 118 spm, 452 gpm, 2,250 spp, 20 rpm, 5k TQ.	1
DRL	Slide and Rotate Drill 8 3/4" curve section 307' at 25.6 fph. HS TFO. MW 9.0 ppg OBM. Pumping 20 bbl High-Vis. sweeps as needed to assist in cleaning the wellbore. Full returns to surface. Lithology: 8,310' - 60% SH 40% LS 8,320' - 80% SH 20% LS 8,360' - 60% SH 40% LS 8,380' - 50% SH 50% LS 8,400' - 70% SH 30% LS 8,470' - 80% SH 20% LS 8,490' - 90% SH 10% LS 8,530' - 70% SH 30% LS 8,550' - 80% SH 20% LS 8,600' - 90% SH 10% LS	12.5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL	Slide and Rotate Drill 8 3/4" curve section 182' at 52 fph. HS TFO. MW 9.0 ppg OBM. Pumping 20 bbl High-Vis. sweeps as needed to assist in cleaning the wellbore. Full returns to surface. Lithology: 8,620' - 80% SH 20% LS 8,640' - 60% SH 40% LS 8,660' - 60% SH 40% LS Last Survey MD 8670 feet INC 72.63 ° AZM 180.20 ° TVD 8472.18 feet NS -214.87 feet EW 416.91 feet VS 223.77 feet DLS 13.13 °/100' CL 31.00 feet LEAM DD Plan #1: 6.3' Below / 27.0' Right MY: 17.7 DLN: 10.2 Ran 2 Generators 24 Hours.	3.5

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 14 Daily Operation: 6/19/2015 06:00 - 6/20/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
34	14	9,035.0	8,493.6	9.05	H & P, 606

Operations Summary

Drill Curve from 8,783' to 8,846' (Landed Curve). Drill Lateral from 8,846' to 9,035', Perform Clean up Cycle, Backream from 9,035' to 8,000', TOOH for RST Lateral BHA. LD BHA. Pull Wear Bushing, Wash Wellhead, and Re-install Wear Bushing. MU new 8. 1/2" Bit and RST BHA. TIH to 5,100', Slip and Cut Drill Line. TIH from 5,100' to 8,025', Safety stand down.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 11.95 Day From Spud, 13.75 Total Days On Well, 35.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 2%

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Slide / Rotate Drill 8 3/4" curve section 63' at 25.2 fph. HS TFO. MW 9.0 ppg OBM. Pumping 20 bbl High-Vis. sweeps as needed to assist in cleaning the wellbore. Full returns to surface. Lithology: 8,820' - 80% SH 20 % LS ? Tailgate meeting w/ McClatchy forlift operaor, Kendrick & Son Csg Inspectors, H&P rig manager & PNR rep on offloading & inspecting 5.5" production casing. ? 2 Generators on line. ? Landed Curve @ 08:30 hrs on 6/19/15. 8,846' MD, 8,493.94' TVD, 88.05° Inc, 178.07° Inc. 2.3' Below & 20.9' Right of Plan #1.	2.5
DRL	Rotate / Slide Drill 8 3/4" Lateral Hole Section - 189' @ 68.7 fph. MW 90 ppg. Full returns to surface. Lithology: 8,850' - 80% SH, 20% LS 8,880' - 90% SH, 10% LS 8,910' - 90% SH, 10% LS 9,000' - 90% SH, 10% LS	2.75
CIRC	Circulated 3 Bottoms up at 538 GPM, 2,600 SPP, while working the Drill String w/ 40 rpm. ? Shakers 75% covered after 1st BU, cutting decreased to roughly 25% on 2nd BU, shakers clean at 3rd BU.	2
TOOH_NONELEV	Backream f/ 9,035' - 8,034' w/ 140 spm, 536 gpms, 2,600 spp, 40 rpm, 6k TQ. ? Decision was made to backream through curve since we will be running Leam's RST in the Lateral.	1.25
SFTY	Flow check while building slug, No flow - well static.	0.5
TIH_ELEV	Pump Slug and TOOH f/ 8,034' - 4,524' while monitoring well on Trip tanks, Hole taking correct fill.	1
RD	HPJSM on removing Rotating Head Element and installing Trip Nipple. Removed Rotating Head Element and installed Trip Nipple.	0.5
TOOH_ELEV	TOOH f/ 4,524' - 581' monitoring Well on Trip Tanks, Hole taking correct fill.	1.5
L/D BHA	HPJSM on LD HWDP, BHA, and Bit. LD HWDP, drain Motor, and break Bit. LD MWD tool, and LD Motor. Note: Function Tested BOP.	2.5
SFTY	Clean Rig Floor due to OBM from Tripping and working BHA.	0.5
WH	Pull, clean and inspect Wear Bushing, Wash Wellhead. Re-install same. Witness by PNR Rep. ***Confined Space Permit in place***	0.5
PU_BHA	PJSM on PU BHA and BHA handling with HP, Leam and PNR Rep. PU and MU Directional BHA #5. PU 6 3/4" XD, 7/8, 3.0, 0.0° 0.16 rpg, Fixed Mud Motor with slick Sleeve, Scribe tools, install and test MWD and Motor, MU 8 1/2" Halliburton MMD65D Bit and RST with 8 3/8" Stabilizer. BHA length 107'. Note: Tested MWD and mud motor before making up the Bit, tested good.	2
TIH_ELEV	TIH from 107' - 5,100'. Hole giving proper displacement to trip tank. Fill pipe every 30 stands.	2
SLIP_CUT	PJSM on Cutting Drill Line. Dock Top Drive and install TIW valve. Cut 93' (10 wraps) of Drill Line. Undock Top Drive, perform 2 point calibration.	2
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
RU	HPJSM on removing the Trip Nipple and installing Rotating Head Element. Removed Trip Nipple and installed Rotating Head Element.	0.5

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
TIH_ELEV	TIH from 5,100' to 8,025', monitoring Well on Trip Tanks, Correct Displacement. Last Survey MD 8985 feet INC 90.22 ° AZM 178.09 ° TVD 8493.70 feet NS -527.65 feet EW 427.48 feet VS 536.71 feet DLS 0.57 °/100' CL 95.00 feet Leam DD Plan #1: 1.6' Below , 9.8' Right ? Tolerance Changed 10' high & 20' low Ran 2 Generators 24 Hours.	1.25
SFTY	Safety Stand Down to Discuss using proper Tools, working safe and not cutting corners. Catwalk use and Proper Procedures. Safety during Rig Move. Working during hot weather.	0.25

Report #: 15 Daily Operation: 6/20/2015 06:00 - 6/21/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
35	15	10,791.0	8,485.6	9.15	H & P, 606

Operations Summary
Safety stand down. TIH from 8,025' to 8,968', Re-log Gamma from 8,968' to 9,035' , Drill 8 1/2" Lateral from 9,035' to 10,791'.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 12.95 Day From Spud, 14.75 Total Days On Well, 36.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 19%

TIme Log Summary

Operation	Com	Dur (hr)
SFTY	Safety Stand Down to Discuss using proper Tools, working safe and not cutting corners. Catwalk use and Proper Procedures. Safety during Rig Move. Working during hot weather. ? 2 Generators on line.	0.25
TIH_ELEV	TIH from 8,025' to 8,968', hole displacing properly into Trip Tanks.	0.75
LWD	Fill Pipe, recycle Pumps and re-log Gamma from 8,968 to 9,035' with 30 SPM, 498 GPM, 2,450 SPP, 40 RPM, 5K TQ. Full returns to Surface.	0.5

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 1,441' @ 77.9 fph. MW 9.0 ppg. Full returns to surface. Lithology: 9,060' - 90% SH 10% LS 9,300' - 80% SH 20% LS 9,360' - 90% SH 10% LS 9,420' - 90% SH 10% LS 9,450' - 90% SH 10% LS TR PYR 9,510' - 80% SH 20% LS 9,570' - 80% SH 20% LS TR PYR 9,660' - 90% SH 10% LS 9,960' - 70% SH 30% LS 9,990' - 80% SH 20% LS 10,170' - 80% SH 20% LS 10,350' - 70% SH 30% LS 10,380' - 80% SH 20% LS 10,410' - 90% SH 10% LS ? At 11:00 hrs, Pioneer Safety Rep, Chris Purdy, on location performed walk around with PNR CM. ? Contacted Drilling Engineer to inform we are 21.5' left at survey and roughly 25' - 26' at the Bit. Discussed that we are currently lowering parameters (Rotary, ROP & GPM's) to get the hole direction turned around. We were seeing 0.5°/100' turn prior to lowering Parameters, starting to see better results with lower Parameters, seeing 1.5°/100'. ? At 9,847' MD Notified Drilling Engineer and Field Office that the current plan is to be 14' - 17' right of the Line when passing the #28/OH Well with a speration factor less than 1. All agreed to Plan.	18.5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 315' @ 90 fph. MW 9.0 ppg. Full returns to surface. Last Survey MD 10601 feet INC 90.04 ° AZM 184.24 ° TVD 8483.08 feet NS -2139.79 feet EW 388.00 feet VS 2147.63 feet DLS 0.37 °/100' CL 94.00 feet LEAM DD Plan #1: 4.5' Above / 17.5' Right Ran 2 Generators 24 Hours.	3.5

Report #: 16 Daily Operation: 6/21/2015 06:00 - 6/22/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
36	16	14,516.0	8,498.4	9.05	H & P, 606

Operations Summary
Drill 8 1/2" Lateral Hole Section from 10,791' to 13,117'.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 13.95 Day From Spud, 15.75 Total Days On Well, 37.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 42%

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 1,762' @ 97.9 fph. MW 9.0 ppg. Full returns to surface. Lithology: 10,770' - 80% SH 20% LS TR PYR 10,830' - 90% SH 10% LS TR PYR 11,010' - 80% SH 20% LS TR PYR 11,190' - 90% SH 10% LS 11,280' - 80% SH 20% LS TR PYR 11,370' - 90% SH 10% LS 11,460' - 60% SH 40% LS 11,520' - 80% SH 20% LS 11,580' - 60% SH 40% LS 11,700' - 50% SH 50% LS TR PYR 11,730' - 40% SH 60% LS 11,760' - 70% SH 30% LS TR PYR 11,940' - 80% SH 20% LS 12,090' - 90% SH 10% LS 12,360' - 80% SH 20% LS 12,480' - 90% SH, 10%LS ? Tolerance change: 25' Above, 5' Below on Plan #1 ? 2 Generators on line @ 06:00 hrs. ? Contacted Drlg Supt & Drlg Eng. to let them know we are working on getting back to hole direction. ? 3 Generators on line @ 15:00 hrs.	18
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 564' @ 102.5 fph. MW 9.0 ppg. Full returns to surface. Last Survey MD 12959 feet INC 89.16 ° AZM 182.84 ° TVD 8479.42 feet NS -4494.95 feet EW 346.19 feet VS 4501.35 feet DLS 1.80 °/100' CL 95.00 feet LEAM DD Plan #1: 3.3' Above / 10.0' right Ran 2 Generators 9 Hours Ran 3 Generators 15 Hours	5.5

Report #: 17 Daily Operation: 6/22/2015 06:00 - 6/23/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
37	17	14,516.0	8,498.4	9.10	H & P, 606

Operations Summary

Drill 8 1/2" Lateral Hole Section from 13,117' to 14,516'. The Kelly Hose Ruptured and damaged the Drag Chain. Shut down Drilling and Contacted PNR Superintendent and PNR Safety Rep. Installed new Kelly Hose and Tested. Began repairs to Drag Chain.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 14.95 Day From Spud, 16.75 Total Days On Well, 38.75 Total Days On Location

Rig NPT: 11.5 hrs previous 24 hrs. 11.5 NPT for month of June.

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

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 1,399' @ 111.9 fph. MW 9.0 ppg. Full returns to surface. Lithology: 13,140' - 80% SH 20% LS 13,230' - 70% SH 30% LS 13,320' - 80% SH 20% LS 13,350' - 90% SH 10% LS 13,420' - 80% SH 20% LS TR PYR 13,450' - 90% SH 10% LS TR PYR 13,480' - 90% SH 10% LS 13,510' - 90% SH 10% LS TR PYR 13,990' - 80% SH 20% LS 14,070' - 90% SH 10% LS 14,220' - 70% SH 30% LS 14,310' - 80% SH 20% LS 14,460' - 90% SH 10% LS Last Survey MD 14373 feet INC 87.58 ° AZM 181.96 ° TVD 8490.53 feet NS -5907.07 feet EW 354.72 feet VS 5913.32 feet DLS 2.52 °/100' CL 94.00 feet Leam DD Plan #1: 2.5' Above , 28.3' Left ? Tolerance change: 15' Above, 15' Below on Plan #1 ? 3 Generators on line.	12.5
RIG_RPR	While Drilling at 14,516' the Kelly Hose ruptured. The Driller shut off the mud pumps, spaced out, and shut-in the Well. The parameters were 35K WOB, 588 GPM, 4,100 - 4,250 SPP, 450 - 600 DIFF, 17K - 20K TQ, and 240'/hr - 260'/hr ROP. There was also approximately a 5' section of the Drag Chain that was damaged. Approximately 3 bbls of Oil based mud was dispersed finely on to location due to the wind. A pump-in Sub was installed and circulation was established with full Returns at 463 GPM, 2,600 SPP. No mud losses while circulating. H&P Tool Pusher contacted the H&P Superintendent and a new Kelly Hose was ordered. PNR Drilling Superintendent and PNR Safety Rep were also contacted. A powerwashing crew was called out to begin remedial cleaning of OBM. The damaged Kelly Hose was removed and there was no excessive wear observed. The new Kelly hose arrived on location and was installed. Note: The Wash Crew Pusher noticed an arcing wire and notified the PNR Rep. The H&P Safety Rep on location, PNR Safety Rep on location, and H&P Pusher were notified. The wash crew was stopped and mustered for a Safety Meeting. The area was flagged off and an H&P Electrician was called out to make repairs.	9.25
TEST_BOPE	PJSM with Battle, Rig Crew, and PNR Rep on Testing Kelly Hose. Test Kelly Hose at 250 psi low/5,000 psi high, test good.	0.5
RIG_RPR	HPJSM on repairing Drag Chain. Began making repairs to Drag Chain, 7 Links were damaged (5' section). Ran 3 Generators 22.5 hours Ran 2 Generators 1.5 hours	1.75

Report #: 18 Daily Operation: 6/23/2015 06:00 - 6/24/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
38	18	15,947.0	8,505.5	9.10	H & P, 606

Operations Summary
Finish changing Kelly Hose and replace damaged Links in Drag Chain. Drill Lateral Hole Section from 14,516' to 15,947'.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 15.95 Day From Spud, 17.75 Total Days On Well, 39.75 Total Days On Location

Rig NPT: 8.5 hrs previous 24 hrs. 20 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 70%

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
RIG_RPR	HPJSM on repairing Drag Chain w/ day tour. Cont making repairs to Drag Chain, 7 Links were damaged (5' section). Install Rotary hose wrap. Circulating w/ 60 spm, 230 gpm, 900 spp, full returns to surface. While attempting to make a test run with the top drive, noticed that the section we had replaced was installed backwards. Held another safety meeting to assure that everybody is on the same page. Disconnect 5' Section of drag chain & flip around & re-install. ? Trifecta crew on location cleaning up, finished up @ 10:00 hrs. ? 2 Generators on line.	8.5
RIG_SVC	Lubricate Top Drive.	0.5
CIRC	Circulate Bottoms up due to not being able to work or rotate drill string for past 20 hours with 60 SPM, 230 GPM, 900 SPP, full returns to surface (No Change in cuttings at Bottoms Up). Make a test run with the Top Drive, inspect Rotary Hose clamp and Hammer Unions with circulation, all Good. RD Pump-In Sub, MU Stand, and work Drill String. Down Link RST while circulating. Concurrently: Go through #1 Mud Pump, changed 2 Swabs, a seat and valve. Checked Suction Screens on Mud Pumps, Screens Clean.	2
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 393' @ 157.2 fph. MW 9.0 ppg. Full returns to surface. Lithology: 14,600' - 90% SH 10% LS ? 3 Generators on line at 15:00.	2.5
CIRC	Circulate while changing Liner on #2 Mud Pump.	0.5
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 1,038' @ 103.8 fph. MW 9.0 ppg. Full returns to surface. Lithology: 14,960' - 80% SH 20% LS 15,140' - 90% SH 10% LS 15,210' - 80% SH 20% LS Note: At the connection at 15,570', H&P Crew inspected Hammer Unions on the new Kelly Hose to insure it was still connected correctly after installation. Last Survey MD 15789 feet INC 90.92 ° AZM 178.97 ° TVD 8509.70 feet NS -7320.90 feet EW 304.73 feet VS 7325.75 feet DLS 1.34 °/100' CL 94.00 feet LEAM DD Plan #1: 6.1' below / 8.2' Left Ran 2 Generators 9 hours Ran 3 Generators 15 hours	10

Report #: 19 Daily Operation: 6/24/2015 06:00 - 6/25/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
39	19	17,077.0	8,521.6	9.00	H & P, 606

Operations Summary

Drill Lateral Hole Section from 15,947' to 17,077'. Circulated 3 Bottoms Up. Flow Check, Well still Flowing. Circulate and spot mud cap. TOOH due to not being able to get needed Motor Yields.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 16.95 Day From Spud, 18.75 Total Days On Well, 40.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 20 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 81%

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 1,130' @ 57.9 fph. MW 9.0--9.1 ppg. Full returns to surface. Lithology: 15,980' - 90% SH 10% LS 16,020' - 90% SH 10% LS 16,050' - 90% SH 10% LS 16,080' - 80% SH 10% LS 16,180' - 80% SH 20% LS TR PYR 16,240' - 80% SH 20% LS 16,360' - 70% SH 30% LS 16,420' - 60% SH 40% LS 16,570' - 70% SH 30% LS 16,630' - 80% SH 20% LS 16,720' - 90% SH 10% LS 16,780' - 80% SH 20% LS 16,890' - 90% SH 10% LS 16,930' - 80% SH 20% LS Last Survey MD 17013 feet INC 91.54 ° AZM 169.12 ° TVD 8524.84 feet NS -8536.82 feet EW 249.88 feet VS 8540.22 feet DLS 4.95 °/100' CL 94.00 feet LEAM DD Plan #1: 21.2' Below / 22.5' Right	19.5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
CIRC	After the survey at 17,013' contacted the Drilling Superintendent and Drilling Engineer due to being 12° out of Hole Direction and unable to get needed Motor Yields. After a Conference Call with Leam D.D., Drilling Superintendent, Drilling Engineer, and PNR Rep, the decision was made to TOOH and change the BHA. Circulated 3 Bottoms up while working Drill String at 75 TDRPM, 551 GPM, 3400 SPP with RST in the Neutral Position. Full Returns to Surface. After 1st Bottoms up cuttings were 50% less, 2nd Bottoms up 85-90% less, and 3rd Bottoms up shakers were clear of cuttings. Concurrently build Slug.	2.5
FLOW_CHK	Flow Check, Well Flowing. Contacted Drilling Superintendent and decision was made to Pump Mud Cap 1,000' above curve.	0.75
CIRC	Circulate and spot Mud Cap. Ran 3 Generators 24 Hours.	0.75

Report #: 20 Daily Operation: 6/25/2015 06:00 - 6/26/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
40	20	17,077.0	8,521.6	9.40	H & P, 606

Operations Summary
TOOH from 17,077' to 8,874' working through Tight Spots and Circulating as needed.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 17.95 Day From Spud, 19.75 Total Days On Well, 41.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 20 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 81%

TIme Log Summary

Operation	Com	Dur (hr)
CIRC	Spot 35 bbls of 11 ppg mud @ 7000'. EMW of 9.16 ppg. Well flowing, initially at .5 bbls per hr, .25 bbls per hr, became static.	1
TOOH_ELEV	POOH w/ 10 stands wet F/ 17077' T/ 16100'. No overpull observed.	0.5

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
CIRC	Pump slug, POOH, pulled tight @ 16000' bit depth. Attempted to pull thru tight spot several times. A 4.5 degree dogleg was recorded at 15977' survey depth. Put pumps on the hole, staging up slowly. Hole packing off w/ eratic pressure and torque, having to kill pumps and stage back up to 380gpm several times. Decision was made to dust up MW F/ 9.0 ppg T/ 9.2 ppg while circulating. Shakers clean on btms up. Was able to achieve drilling rate of 545 gpm w/ full returns and torque stabilized at 8-9K 75rpm. MW 9.2ppg in/out.	7.5
TOOH_ELEV	Flow Check - well static. POOH on elevators from 16,000' to 13,000'. Monitoring Well on Trip Tank, Correct Fill.	3
RIG_SVC	Replaced broken fitting on ST-80. Lubricate Rig and Top Drive, Pit Hand Checked Suction Screens on Mud Pumps, Screen Clean.	0.5
TOOH_ELEV	TOOH from 13,000' to 11,137'. Monitoring Well on Trip Tanks, Correct Fill. Note: Started Pulling Tight at 11,703', Contacted Drilling Superintendent. Attempted to pull through with sucess between 50K and 100K over TSW of 250K to 11,325'. Decision was made to Pump out of the Hole. Broke Circulation, Staged Pumps to 275 GPM and work Drill String, no excessive Drag. Racked Stand in Derrick (11,231') and pumped out of Hole with next Stand (11,137'), no excessive Drag. While breaking circulation on next stand, hole began to Pack off. Established good Circulation staging Pumps to 550 GPM. Observed 15 bbl loss before Gain/Loss stabilized.	2.5
CIRC	Circulated Bottoms up at 550 GPM, 85 TDRPM, 3000 SPP, working Drill String One Full Stand. On Bottoms Up, observed a 65%-75% increase in Cuttings ranging in sizes from Fine to 1-1/2". Pumped 35 bbl Weighted Sweep at 1.5 ppb over. On 2nd Bottoms up, observed a 10%-15% increase in Cutting. Shakers were clear after Sweep returned.	3.75
FLOW_CHK	Flow Check, Well Flowing. Initial 1st bbl back at a rate of 16 bbl/hr. 2nd bbl back at a rate of 4 bbl/hr. 3rd bbl back at a rate of .7 bbl/hr. Flow continued to fall off to Static.	0.75
TOOH_ELEV	TOOH, pull 5 stands wet from 11,137' to 10,571', no excessive drag, monitoring well on Trip Tanks, Hole taking Correct Fill. Flow Check, Well Static. Pump Slug and TOOH from 10,571' to 8,874' (EOC at 8,846') started pulling tight, pulled 300K, 75K over TSW of 225K.	2.5
CIRC	Broke Circulation and stage pumps to 585 GPM. Circulate at 585 GPM, 30 TDRPM, 2900 SPP. Full Returns to Surface. On Bottoms up, observed 25% increase in Fine Cuttings. On Second Bottoms up observed 5% increase in Cuttings, mostly fine with a few pieces 1/4" in size. At Surface to Surface Strokes the Shakers were clear. Last Survey MD 17013 feet INC 91.54 ° AZM 169.12 ° TVD 8524.84 feet NS -8536.82 feet EW 249.88 feet VS 8540.22 feet DLS 4.95 °/100' CL 94.00 feet LEAM DD Plan #1: 21.2' Below / 22.5' Right Ran 3 Generators 24 Hours.	2

Report #: 21 Daily Operation: 6/26/2015 06:00 - 6/27/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
41	21	17,077.0	8,521.6	9.45	H & P, 606

Operations Summary

Finished TOOH from 8,900' to Surface. LD Directional BHA #5. PU new Motor and MU Bit. TIH and to 3,000' and PU Agitator. TIH to EOC at 8,900' and CBU. TIH from 8,900' to 14,919'. Wash and Ream from 14,919' to 15,014'.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 18.95 Day From Spud, 20.75 Total Days On Well, 42.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 20 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 81%

TIme Log Summary

Operation	Com	Dur (hr)
FLOW_CHK	Flow Check, Well Flowing. Initial 1st bbl back at a rate of 18 bbl/hr. 2nd bbl back at a rate of 4 bbl/hr. 3rd bbl back at a rate of .7 bbl/hr. Flow continued to fall off to Static.	1
TOOH_ELEV	POOH thru curve from 8900' to 8051' wet, with no issues. Well taking proper fluid.	1
TOOH_ELEV	Flow check - well static. Pump slug and POOH on elevators to 4300'.	3
RU	Pull rotating head and install trip nipple.	1

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
TOOH_ELEV	TOOH from 4300' to BHA. Monitoring well on trip tanks.	1
L/D BHA	Clean rig floor of OBM. PJSM on Working BHA. Breakout and LD Directional BHA # 6.	2
PU_BHA	PU and MU Directional BHA #6. PU 6 3/4" XD, 7/8, 3.0, 2.0° 0.29 rpg, Fixed Mud Motor with slick Sleeve, Scribe tools, install and test MWD and Motor, MU 8 1/2" Halliburton MMD55DM Bit. BHA length 93.05'. Note: Tested MWD and mud motor before making up the Bit, tested good.	1
TIH_ELEV	TIH from 93' to 3,014'. PJSM on PU Agitator. MU NOV Agitator (top at 3038') and TIH to 5,200'. Monitoring Well on Trip Tanks, Correct Displacement.	3
RU	PJSM on removing Trip Nipple and Installing Rotating Head Element. Remove Trip Nipple and Install Rotating Head Element.	0.5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
TIH_ELEV	Fill Pipe, Test MWD, Motor, and Agitator, Test Good. TIH from 5,200' to 8,000'. Fill Pipe and Orient Motor to HS. TIH from 8,000' to 8,900'. Monitoring Well on Trip Tanks, Correct Displacment.	2.5
CIRC	Circulate Bottoms up at the EOC. Staged Mud Pumps to 550 GPM, 75 TDRPM, 3400 SPP, 6K TQ, working Drill Sting one Stand. Full Returns to Surface, No increase in Cuttings on Bottoms up. MW 9.4 In/9.5 Out.	1
TIH_ELEV	TIH from 8,900' to 14,919'. Monitoring Well on Trip Tanks, Correct Displacement.	4
TIH_NONELEV	Wash and Ream from 14,919' to 15,014' at 500-520 GPM, 3675-3725 SPP, 8-12K TQ, 60-90 TDRPM. Full Returns to Surface. Note: While Washing and Reaming, at a higher ROP (over 120 ft/hr), the Hole would begin to Pack-Off with the SPP and the WOB increasing at 14,924', 14,947', 14,956', and 14,968'. Able to PU and allow pressure and weight to fall off, then proceed with ROP between 50 ft/hour and 120 ft/hour. At Bottoms up there was a 15%-20% increase in Cuttings. Ran 3 Generators 24 hours.	2.5

Report #: 22 Daily Operation: 6/27/2015 06:00 - 6/28/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
42	22	17,747.0	8,506.7	9.20	H & P, 606

Operations Summary
Wash and Ream from 15,014' to 17,077' Re-Log Gamma from 17,027' to 17,077'. Rotate and Slide Drilled from 17,077' to 17,747'.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 19.95 Day From Spud, 21.75 Total Days On Well, 43.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 20 NPT for month of June.

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

TIme Log Summary

Operation	Com	Dur (hr)
TIH_NONELEV	Wash and Ream from 15,014' to 17,077' at 500-520 GPM, 3800 SPP, 8-12K TQ, 60-90 TDRPM. Full Returns to Surface. Note: While Washing and Reaming, Tight Hole would begin to Pack-Off with the SPP and the WOB increasing at 15890', 16225', and 16849'. Able to PU and allow pressure and weight to fall off, then proceed with ROP between 275-350 fph. Pumped 2/20 bbl Low Vis Sweeps (30-35 vis), arriving at surface with 15%-20% increase in Cuttings. Note: Contacted TRRC at 07:22 on 6/27/15 and received an extension on BOP testing to 7/6/15, spoke with Bill Spragins.	11
LWD	Re-log Gamma from 17,027 to 17,077' with 136 SPM, 520 GPM, 3875 SPP, 65 RPM, 9-12K TQ. Full returns to Surface.	0.5
DRL	Rotate and Slide Drill 8 1/2" Lateral Hole Section - 385' @ 40.5 fph. MW 9.2 ppg. Full returns to surface. Lithology: 17,090' - 80% SH 20% LS 17,130' - 80% SH 10% LS 10% QW 17,250' - 70% SH 20% LS 10% QW 17,340' - 80% SH 20% LS 17,400' - 70% SH 30% LS	9.5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Rotate Drill 8 1/2" Lateral Hole Section - 285' @ 114 fph. MW 9.2 ppg. Full returns to surface. Last Survey MD 17605 feet INC 88.81 ° AZM 183.01 ° TVD 8504.80 feet NS -9125.37 feet EW 264.37 feet VS 9128.94 feet DLS 1.59 °/100' CL 94.00 feet LEAM DD Plan #1: 1.3' Below / 6.0' Left Ran 3 Generators 24 hours	2.5

Report #: 23 Daily Operation: 6/28/2015 06:00 - 6/29/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
43	23	18,995.0	8,492.4	9.35	H & P, 606

Operations Summary

Drill Lateral Hole Section from 17,747' to TD at 18,995'. Circulate K&M Clean Up Cycle.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 20.95 Day From Spud, 22.75 Total Days On Well, 44.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 20 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 100%

TIme Log Summary

Operation	Com	Dur (hr)
DRL	Slide and Rotate Drill 8 1/2" Lateral Hole Section - 1,248' @ 83.2 FPH. MW 9.2 ppg. Full Returns to Surface. Lithology: 17,760' - 60% SH 20% LS 20% QW 17,820' - 70% SH 10% LS 20% QW 17,880' - 80% SH 10% LS 10% QW 17,940' - 60% SH 20% LS 20% QW 18,000' - 80% SH 10% LS 10% QW 18,060' - 70% SH 20% LS 10% QW 18,180' - 70% SH 20% LS 10% QW Tr PYR 18,240' - 80% SH 20% LS Tr PYR 18,300' - 70% SH 30% LS 18,360' - 80% SH 10% LS 10% QW 18,420' - 70% SH 10% LS 20% QW 18,450' - 80% SH 10% LS 10% QW 18,510' - 70% SH 20% LS 10% QW 18,690' - 70% SH 10% LS 20% QW 18,960' - 70% SH 20% LS 10% QW Last Survey MD 18946 feet INC 91.63 ° AZM 179.14 ° TVD 8494.26 feet NS -10465.31 feet EW 221.28 feet VS 10467.65 feet DLS 2.01 °/100' CL 20.00 feet LEAM DD Plan #1: 9.2' Above / 8.8' Right LEAM Projection to Bit: 10.1' Above / 5.0' Right	15

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
CIRC	Perform Clean-up Cycle as per K&M - Circulate 6.5 Bottoms Up (67,000 stks). At 515 GPM, 90 TDRPM, 3950-4175 SPP, while working Drill String 90'. The shakers decreased in Cuttings Load by approximately 25% on the 3rd Bottoms Up with fine to medium material, and by approximately 75%-85% same size material between the 4th and 5th Bottoms Up. Shakers were clear of Cuttings at the end of the Clean-up Cycle. Concurrently: Increase Mud Weight from 9.2 ppg to 9.4 ppg.	8.5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean. Ran 3 Generators 24 Hours.	0.5

Report #: 24 Daily Operation: 6/29/2015 06:00 - 6/30/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
44	24	18,995.0	8,492.4	9.40	H & P, 606

Operations Summary

TOOH from 18,995' to 8,013'. LD Drill Pipe from 8,013' to 5,000'. Slip and Cut Drill Line. TOOH, LD Drill Pipe from 5,000' to Surface. Break Bit and LD Directional BHA. MU Bit and TIH with Drill Pipe from the Derrick to 3,100'. LD Drill Pipe from 3,100' to 2,650'.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 21.95 Day From Spud, 23.75 Total Days On Well, 45.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 20 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 100%

TIme Log Summary

Operation	Com	Dur (hr)
FLOW_CHK	Flow Check, Well Flowing. Initial 1st bbl back at a rate of 7 bbl/hr. 2nd bbl back at a rate of 1 bbl/hr. 3rd bbl back at a rate of .4 bbl/hr. Flow continued to fall off to Static.	1
TIH_ELEV	POOH w/ 15 stands wet F/ 18995' T/ 17585'. Pulled slick w/ no over pull. Monitoring well on trip tank, hole taking proper fill.	1
TIH_ELEV	Pump Slug - TOOH F/ 17585' T/ 8013' (KOP). No overpull, hole taking proper fill.	5.5
RD	Pull rotating head and prep to start laying down DP.	1.25
L/D BHA	LD Drill Pipe from 8,013' to 5,000', monitoring Well on Trip Tanks, Correct Fill.	3.25
SLIP_CUT	PJSM on Cutting Drill Line. Dock Top Drive and install TIW valve. Cut 112' (12 wraps) of Drill Line. Undock Top Drive, perform 2 point calibration.	2.5
L/D BHA	PJSM on LD Drill Pipe. LD Drill Pipe from 5,000' to 3,770', monitoring Well on Trip Tanks, Correct Fill.	1.5
RIG_SVC	Replaced Belt on PipeWrangler. Lubricate Top Drive.	0.5
L/D BHA	LD Drill Pipe from 3,770' to 93', monitoring Well on Trip Tanks, Correct Fill.	4
SFTY	Clean Rig Floor of OBM prior to LD BHA.	0.5
L/D BHA	PJSM on LD BHA. Drain motor, break bit, LD BHA. Clean OBM from rig floor. Bit Dull Grade: 1-2-CT-G-X-0-NO-TD	1
TIH_ELEV	MU Bit, Bit Sub with Float, and Cross over. TIH with Drill Pipe from the Derrick to 3,100'. Monitoring Well on Trip Tanks, Correct Displacement.	1.5
L/D BHA	LD Drill Pipe from 3,100' to 2,650', monitoring Well on Trip Tanks, Correct Fill. Ran 2 Generators 17 Hours. Ran 3 Generators 7 Hours.	0.5

Report #: 25 Daily Operation: 6/30/2015 06:00 - 7/1/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
45	25	18,995.0	8,492.4	9.40	H & P, 606

Operations Summary

TOOH LD all remaining Drill Pipe. RU CRT, MU Shoe Track, and Run Casing to 2,000'.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 22.95 Day From Spud, 24.75 Total Days On Well, 46.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 20 NPT for month of June.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 100%

TIme Log Summary

Operation	Com	Dur (hr)
L/D BHA	LD Drill Pipe from 2,650' to 50', monitoring Well on Trip Tanks, Correct Fill.	3
TIH_ELEV	TIH with Drill Pipe from the Derrick to 2,850'. Monitoring Well on Trip Tanks, Correct Displacement.	1

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
L/D BHA	LD Drill Pipe from 2,850' to 50', monitoring Well on Trip Tanks, Correct Fill.	3
TIH_ELEV	TIH with Drill Pipe from the Derrick to 2,850'. Monitoring Well on Trip Tanks, Correct Displacement.	1
L/D BHA	LD Drill Pipe from 2,850' to 850', monitoring Well on Trip Tanks, Correct Fill.	4
RIG_SVC	H&P mechanics made adjustment to Pipe Wrangler. Lubricate Rig and Top Drive.	0.5
L/D BHA	LD Drill Pipe from 850' to 50', monitoring Well on Trip Tanks, Correct Fill.	0.5
TIH_ELEV	TIH with Drill Pipe from the Derrick to 2,250'. Monitoring Well on Trip Tanks, Correct Displacement.	1
L/D BHA	LD Drill Pipe from 850' to Surface. Break Bit and LD, monitoring Well on Trip Tanks, Correct Fill.	2
WH	PJSM on Pulling Wear Bushing. Pull Wear Bushing and Wash Well Head. Backing out of Lock-Down Pins Verified by PNR Rep. *Confined Space Permit in Place*	1
RU	PJSM with H&P rig crew & PNR representative over rigging up CRT. PU and RU H&P CRT and Casing equipment. Set and Checked 2 point calibration after PU CRT. Casing collar OD: 6 1/8" Elevator ID: 5 9/16"	1.5
CSG_W/O WASH	PJSM with H&P CRT Reps, H&P rig crew and PNR representative over making up 2 jt shoe track & running 5-1/2" Production casing. PU and MU 5 1/2" 20# P110 BTC. Weatherford Reaming shoe, 2 joint shoe track, Weatherford latch in double valve float collar, (Thread Lock all Threads in Shoe Track), test floats - (good)., 40' joint, 9.7' pup, GeoDynamics time delay toe sleeve, 20' pup. Toe Sleeve Operation Pressures Max Cir. psi with full Column of Mud----6,300 psi Max Cmt. psi with full Column of Cmt.---4,800 psi Max Displ. psi when Bumping Plug---6,700 psi Toe Sleeve Actuation Pressures Minimum Actuation psi---8,146 psi Nominal Actuation psi---8,512 psi Maximum Actuation psi---8,878 psi Note: Had to Level Top Drive after MU Shoe Track.	2.5
CSG_W/O WASH	TIH with 5 1/2", 20#, P-110, BTC casing from 161' to 2,000' with CRT. Taking returns to Trip Tank, hole giving proper displacement. Torque = 12,200 ft/lbs to Base of Triangle. Break circulation. every 40 jts. **Torque rings installed in all casing 5,500 k minimum 14,400 k max. Torque and chart all joints to 12,200 k. Thread rep and Torque turn on location.** Ran 2 Generators 24 Hours..	3

Report #: 26 Daily Operation: 7/1/2015 06:00 - 7/2/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
46	26	18,995.0	8,492.4	9.45	H & P, 606

Operations Summary

Run Production casing f/ 2,000' t/ 15,000'. Fill pipe and Circulate BU as per prog. No accidents or incidents.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 23.95 Day From Spud, 25.75 Total Days On Well, 47.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of July.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 100%

TIme Log Summary

Operation	Com	Dur (hr)
CSG_W/O WASH	TIH with 5 1/2", 20#, P-110, BTC casing from 2,000' to 8,900' with CRT. Taking returns to Trip Tank, hole giving proper displacement. Torque = 12,200 ft/lbs to Base of Triangle. Break circulation. every 30 jts. **Torque rings installed in all casing 5,500 k minimum 14,400 k max. Torque and chart all joints to 12,200 k. Thread rep and Torque turn on location.**	11.5
CIRC	Circulated BU @ 8,900'. 4,500 strokes at 86 spm (8 BPM) with 430 psi. Full returns to surface. Max. gas was 2434 units @ BU (4,415 strokes), gas imediately fell off after peaking.	1

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
CSG_W/O WASH	TIH with 5 1/2", 20#, P-110, BTC casing from 8,900' to 12,540' with CRT. Taking returns to Trip Tank, hole giving proper displacement. Torque = 12,200 ft/lbs to Base of Triangle. Break circulation. every 30 jts. **Torque rings installed in all casing 5,500 k minimum 14,400 k max. Torque and chart all joints to 12,200 k. Thread rep and Torque turn on location.** **Had to lay out 1 joint of casing and replace collar due to improper shouldering.**	5.5
CIRC	Circulated BU @ 12,540'. 6,200 strokes at 80 spm (7.3 BPM) with 540 psi. Full returns to surface. Installed Casing stripper prior to begining circulation. Max. gas was 2950 units before switching the flow through the MGS. Max. gas while circulating through the MSG was 2853 units with 3-5' flare.MW @ shakers was 9.4 until 4,100 stks when MW reduced t/ 9.3 ppg and then down to 9.2 ppg @ 5,800 strk. MW returned t/ 9.4 ppg. Gas units dropped and leveled off at 100 units after bottoms up.	2.5
CSG_W/O WASH	TIH with 5 1/2", 20#, P-110, BTC casing from 12,540' to 15,000' with CRT. Taking returns to Trip Tank, hole giving proper displacement. Torque = 12,200 ft/lbs to Base of Triangle. Break circulation. every 30 jts. **Torque rings installed in all casing 5,500 k minimum 14,400 k max. Torque and chart all joints to 12,200 k. Thread rep and Torque turn on location.** 2 Generators online.	3.5

Report #: 27 Daily Operation: 7/2/2015 06:00 - 7/3/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG DRILLING	ODR	035218

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
47	27	18,995.0	8,492.4	9.40	H & P, 606

Operations Summary

Finish Running 5.5" casing and Circulate Casing volume. RU and Cement casing, Rig down CRT, install pack off, Nipple down and install abandonment cap. Clean pits and rig down, with no Incidents or Injuries.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 24.95 Day From Spud, 26.75 Total Days On Well, 48.75 Total Days On Location

Rig NPT: 0 hrs previous 24 hrs. 0 NPT for month of July.

Completion percentage: Surface - 100%, Intermediate - 100%, Vertical Production Hole - 100%, Curve - 100%, Lateral - 100%

Rig Released @ 6:00 am 7/3/15.

TIme Log Summary

Operation	Com	Dur (hr)
CSG_W/O WASH	TIH with 5 1/2", 20#, P-110, BTC casing from 15000' to 15,600' with CRT. Taking returns to Trip Tank, hole giving proper displacement. Torque = 12,200 ft/lbs to Base of Triangle. Break circulation. every 30 jts. **Torque rings installed in all casing 5,500 k minimum 14,400 k max. Torque and chart all joints to 12,200 k. Thread rep and Torque turn on location.**	1.5
CIRC	Circulated BU @ 15,600'. 7800 strokes at 80 spm (7.3 BPM) with 600 psi. Full returns to surface. Max. gas was 2600 units before switching the flow through the MGS. Max. gas while circulating through the MSG was 2900 units.MW @ shakers was 9.4 until 4,100 stks when MW reduced t/ 9.1. @ 7,800 strk. MW returned t/ 9.2 ppg. Gas units dropped and leveled off at 100 units after bottoms up.	2
CSG_W/O WASH	TIH with 5 1/2", 20#, P-110, BTC casing from 15,600' to 18941' with CRT. Taking returns to Trip Tank, hole giving proper displacement. Torque = 12,200 ft/lbs to Base of Triangle. Break circulation. every 30 jts. **Torque rings installed in all casing 5,500 k minimum 14,400 k max. Torque and chart all joints to 12,200 k. Thread rep and Torque turn on location.**	4.5
CIRC	Circulated 1 1/2 X Csg Cap @ 18941'. 7800 strokes at 80 spm (7.3 BPM) with 700 psi. Full returns to surface.	2
CSG_TEST	Remove casing stripper rubber and land 5 1/2" production casing on the casing hanger in the wellhead. Measurements and casing seat confirmed and verified by both the Seaboard and PNR Reps. Top of F.Collar: 18,895' Shoe Depth: 18,980'	1

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
CMT	R/U cementing head and iron, tested lines to 5000 PSI - Good test Cement 5 1/2", 20#, P110, BTC production casing as follows: Flush lines with 20 BBL FW. Drop Bottom Plug, witnessed by PNR Representative. Pump 50 barrels MUDPUSH Express at 10.5 ppg, MUDPUSH Express. Lead: 167 BBL 387 Sks TXI at 11.5 PPG, (75 Lb/Sk of Blend) Yield 2.19 Ft^3/Sk, Mix water 12.849 Gal/Sk. Tail: 501 BBL 1615 Sks TXI at 12.5 PPG, (75 Lb/Sk of Blend) Yield 1.63 Ft^3/Sk, Mix water 8.774 Gal/Sk. Load Top Plug and deploy plug witnessed by PNR. Pumping displacement consisting of 419 BBL Biocide Water @ 8.4 PPG, first 10 bbls sugar water. Full returns throughout cement job. See cement details in cement report on page 3-4. Note: Initial Lift PSI 275 psi @ 8.0 bpm, Final lift pressure 1536 psi @ 3.3 bpm. Bump Plug with 1536 psi over final lifting pressure to 2239 psi @ 21:20 pm per Shield TechnologieToesleeve Rep. Held 10 min (per Shield Technologies Rep), bleed back 3.25 bbl, Floats held PSI into displacement- 40 BBL: 277 PSI @ 8.0 BPM, 100 BBL: 593 PSI @ 6.3 BPM, 150 BBL: 1063 PSI @ 6.3 BPM, 200 BBL: 1364 PSI @ 6.3 BPM, 250 BBL: 1400 PSI @ 6.3 BPM, 300 BBL: 1503 PSI @ 6.3 BPM, 350 BBL: 1612 PSI @ 6.3 BPM,412 BBL: 1536 PSI @ 3.3 BPM. Toe Sleeve Actuation Pressures. Min. 8,146 psi Nom. 8,512 psi Max. 8,878 psi	4.5
RD	PJSM on Rigging down Cementers. Rig down Cement head and steel lines. Rig Down CRT and Casing slips. **Begin Cleaning pits in tandum.**	0.5
WH	Back out landing joint and Install pack off, set seal assembly. Verified by PNR Rep. **Confined space permit in place. Continue to monitor for atmospheric changes.**	1.5
ND_BOPE	Flush stack, Choke line and Mud Delivery lines. Blow out same.	0.5
ND_BOPE	PJSM with HP, Battle and Pioneer rep. on nippling down BOP. RIg Down Catch Can, Remove flow line, Install BOP wrangler, break spacer spool from well head and set back BOP. Install abandonment cap and test to 500 psi. f/ 15 min. Test Good. **Confined space permit in place. Continue to monitor for atmospheric changes.** 1 Generator on line	4.5
RD	Continue to clean pits and rig. Rig hands performing standard rig down process prepping for rig move. **Rig Released @ 06:00, 7/3/15. FINAL DRILLING REPORT.** 1 Generator online.	1.5

Report #: 1 Daily Operation: 7/18/2015 06:00 - 7/19/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
63	1	0.0			

Operations Summary

Plumb Annulus & Surface
Backfill Cellar
NU "B" Section
NU Half Frac Stack

Remarks

Days Joe Vickers, Bryan Bussey

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI No Activity	0.5
WH/CELLAR	MI Kyle Erwin Const. Nipple up Annulus and Surface valves to ground level. Backfill cellar. Install "B" Section and test to 5,000 and 7,500 psi Good Test	4.5
FRAC_STAC	NU FMC's Half Frac Stack	2
SHUT_IN	WSI o Activity	17

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 2 Daily Operation: 7/19/2015 06:00 - 7/20/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
64	2	0.0			ANDERSON PERFORATING INC, 2

Operations Summary
MIRU API Wireline
RIH w 4.625" GR/JB to 8,704'
RIH and LOG (RCBL) from 8,680' to Surface. TOC @ 5,570'
RDMO API wireline
Secure well

Remarks
Days Joe Vickers, Bryan Bussey

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI No Activity	0.5
RURD	MIRU API wireline	1
WL_GR/JB	RIH w/ 4.625" GR/JB to 8,704' inspected basket Basket clean	1.5
WL_CBL	RIH w/ RCBL to 8,680' Log out at 65 FPM to Surface. TOC at 5,570'	4
RURD	RDMO API wireline	2
SHUT_IN	WSI No Activity	15

Report #: 3 Daily Operation: 7/20/2015 06:00 - 7/21/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
65	3	0.0			

Operations Summary
MIRU Raider Pumping
Pressure Annulus to 1,500 psi & Hold
Tie on to Casing & Pressure test to 9,600 psi
Open valve and pressure casing to 7,500 psi & hold 15 mins.
Increase press. to 9,500 psi & hold 16 Mins.Sleeve shifted Press. dropped to 4,820 psi. Increase rate to 10 bpm at 6,000 psi Pump 40 bbls
RDMO Raider Pumping
Secure well. wait on Frac

Remarks
Days Joe Vickers, Bryan Bussey

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI Waiting on Arrival of pumping crew	1
RURD	MIRU Raider PumpingServices	1
TEST_LINE	Test Lines and surface Iron and valves to 9,600 psi(good test)	0.5
PD_SLEEVE	Open valve and pressure casing to 7,500 psi & hold 15 mins.Increase press. to 9,500 psi & hold 16 Mins.Sleeve shifted in 16 mins. Press. dropped to 4,820 psi. Increase rate to 10 bpm at 6,000 psi Pump 40 bbls ISIP 4,880 mins. 5 mins. 2,600 mins. 10 mins. 2,480 mins. 15 mins. 2,400 mins.	4
RURD	RDMO Raider Pumping services	1.5
SHUT_IN	WSI Waiting on arrival of Frac Crew	16

Report #: 4 Daily Operation: 7/23/2015 06:00 - 7/24/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
68	4	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Start MIRU all rental equipment for frac.
Set containments.
Set f/b tanks.
Setup coman & crew trailers.

Remarks
Days: Eric Wampler / Wendell Wiggins
Nights: Noah Sherfield / TD Jones

PNR FRAC TANKS ON LOCATION:
Pump down / flowback tanks:
252, 883, 694, 362

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI, No Activity	2
RURD	MIRU all rental equipment. Set company man trailers and crew trailers. NU FMC 7 1/16" 10K upper frac stacks. MIRU containment for water tanks, pump down tanks, half tank and flowback.	14
SHUT_IN	WSI, No Activity	8

Report #: 5 Daily Operation: 7/24/2015 06:00 - 7/25/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
69	5	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary

WSI. RU F2 flowback and spot tanks on containment. MIRU Ecoloop pump down trucks.
PPS bring in backside equipment and spot.

Remarks

Days: Eric Wampler / Wendell Wiggins / Jason Howl
Nights: Noah Sherfield / TD Jones

PNR FRAC TANKS ON LOCATION:
Pump down / flowback tanks:
252, 883, 694, 362

Chemical tanks:
696, 674

Working tanks
692, 529, 462, 458, 668

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI no activity.	2
SAFETY	PJSM	0.25
RURD	RU F2 flowback iron to tanks. MI frac line acid tank, half tank and chemical tanks. MIRU Ecoloop pump down trucks.	6.75
SHUT_IN	WSI. No activity	9
RURD	PPS bring in hydration unit and blender and other associated equipment for back side. Ecoloop on location @ 04:30	6

Report #: 6 Daily Operation: 7/25/2015 06:00 - 7/26/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
70	6	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary

WSI, No Activity.
MIRU EcoLoop pump down, API 10K, Epic WL and PPS #6 Frac crew.
Filled working tanks and pump down tanks.
Held JSA Meeting w/ Night crew.
MIRU Circle 8 Crane.
Con't R/U PPS Frac Equipment.

Remarks

PNR FRAC TANKS ON LOCATION:
Pump down / flowback tanks:
252, 883, 694, 362

Chemical tanks:
696, 674

Working tanks
692, 529, 462, 458, 668

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	WSI. No activity.	1
SAFETY	PJSM	0.25
RURD	MIRU PPS #6 Frac crew, Epic wireline, API 10K and EcoLoop pump down. Select water transfer filling working tanks and pump down tanks. Held JSA Safety Meeting w/ night crew, Spot Circle 8 crane. Continue rigging up PPS Frac equipment.	22.75

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 7 Daily Operation: 7/26/2015 06:00 - 7/27/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
71	7	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
WSI. Continue RU of PPS #6
RIH and set plug and perf for stage #1

Remarks
Downtime:

PPS	0.0 hrs / Cum 0.0 hrs
EPIC	0.0 hrs / Cum 0.0 hrs
API	0.0 hrs / Cum 0.0 hrs
Select	0.0 hrs / Cum 0.0 hrs
Circle 8	0.0 hrs / Cum 0.0 hrs
Ecoloop	0.0 hrs / Cum 0.0 hrs
FMC	0.0 hrs / Cum 0.0 hrs
F2	0.0 hrs / Cum 0.0 hrs
Weather	0.0 hrs / Cum 0.0 hrs

PNR FRAC TANKS ON LOCATION:
Pump down / flowback tanks:
252, 883, 694, 362

Chemical tanks:
696, 674

Working tanks
692, 529, 462, 458, 668

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.25
RURD	Continue RU of PPS #6.	16.25
PAD	Wait on plug and perf operations on the 64H	5
WL_PERF	Plug and perf stage 1 of 43. Plug set at 18,811 so as not to run into toe sleve @ 18,839 on pump down.	2.5

Report #: 8 Daily Operation: 7/27/2015 06:00 - 7/28/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
72	8	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac stage #1
Plug & Perf Stage # 2

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.25
PAD	WSI waiting on frac and wireline ops on 64H.	9.75
STIM	SD waiting on PPS to fix 2 pumps. They have to swap tractors for one and replace isolation valve on the other. Had to replace leaking iron./ Swap pumps around.	8
STIM	Stage 1 did not frac as designed. Did not pump as designed due to we could not run 2.00 lb/gal sand due to auger problems. pumped all of sand. finished at 1.5 lb/gal	2.5
WL_PERF	Plug and perf stage 2 of 43 as designed	2.25
PAD	Wait on frac operations on the 64H	1.25

Report #: 9 Daily Operation: 7/28/2015 06:00 - 7/29/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
73	9	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac stage #2
Plug and Perf Stage # 3
Frac stage #3
RIH wire line to perf stage 4 at report time

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.25
PAD	WSI waiting on frac and wieline ops on the 64H.	5.25
STIM	Frac stage #2 of 43. PTD	2.5
WL_PERF	Plug and perf # 3 of 43. Set plug at 18,354' WLM' per design.	2.5
PAD	WSI waiting on frac and wieline ops on the 64H.	6
STIM	Communication problem with screen on blender, E-Tech working on it	3.25
STIM	Frac Stage 3 of 43 as designed	2.5
WL_PERF	RIH with wire line at report time	1.75

Report #: 10 Daily Operation: 7/29/2015 06:00 - 7/30/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
74	10	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac stage #4. Set plug & perf stage 5. Frac stage #5. RIH to set plug & perf stage 6 of 43 @ report time.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
WL_PERF	Plug and perf # 4 of 43. Set plug at 18,089' WLM' per design.	0.5
PAD	Waiting on stim ops on 64H	13.5
STIM	Frac stage 4 of 43 as scheduled. Placed 100% of prop in formation.	2.5
WL_PERF	Perforated stage #5 of 43 as designed.	2.5
PAD	Well SI waiting on flush ops to be completed on the 64H.	1.75
STIM	Frac stage #5 of 43 as scheduled. Placed 100% prop in formation.	2
WL_PERF	RIH to set plug & perf stage 6 of 43 @ report time.	1.25

Report #: 11 Daily Operation: 7/30/2015 06:00 - 7/31/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
75	11	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Plug & Perf Stg 6. Well SI waiting on coil tubing ops to be completed on the 64H.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
WL_PERF	Perforated stage #6 of 43 as designed.	1
PAD	Well SI waiting on coil tubing ops to be completed on the 64H @ report time.	23

Report #: 12 Daily Operation: 7/31/2015 06:00 - 8/1/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
76	12	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac stage 6 of 43. Set plug & perf stage 7 of 43. Frac stage 7 of 43. Set plug & perf stage 8 of 43.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	Safety meeting with all personal swapping out	0.5
PAD	Waiting on stim ops on 64H	8.75
STIM	Frac stage 6 of 43 as scheduled. Placed 100% of prop in formation.	2.25
WL_PERF	Plug and perf # 7 of 43. Set plug at 17,394' WLM' per design.	2.75
PAD	Well SI waiting on frac operations to be completed on the 64H.	3
STIM	Frac stage 7 of 43 as scheduled. Placed 100% of prop in formation.	2.75
WL_PERF	Plug and perf stage #8 of 43 as designed. Set plug at 17,154' WLM' per design.	2.5

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
PAD	Well SI waiting on frac operations to be completed on the 64H.	1.5

Report #: 13 Daily Operation: 8/1/2015 06:00 - 8/2/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
77	13	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac stage 8 of 43. Set plug & perf stage 9. Frac stage 9 of 43. Set plug & perf stage 10. Frac stage 10 of 43. Set plug & perf stage 11. Frac stage 11 of 43.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.5
STIM	Frac stage # 8 of 43 PTD. Placed 100% of prop in formation.	2.5
WL_PERF	Perf stage # 9 of 43 as design. Set plug @ 16,914' WLM'.	2.5
PAD	WSI waiting on frac and wireline ops on the 64H.	1.75
STIM	Frac stage # 9 of 43 PTD. Placed 100% of prop in formation.	2
WL_PERF	Perf stage #10 of 43 to design. Set plug @16,674" WLM'.	2.75
PAD	Well SI waiting on frac operations to be completed on the 64H.	2.5
STIM	Frac stage #10 of 43 as scheduled. Placed 100% of prop in formation.	2.5
WL_PERF	Perf stage #11 of 43 to design. Set plug @ 16,434' WLM.	2
PAD	Well SI waiting on frac operations to be completed on the 64H.	2.5
STIM	Frac stage #11 of 43 as scheduled. Placed 100% of prop in formation.	2
PAD	Perf stage #12 at report time.	0.5

Report #: 14 Daily Operation: 8/2/2015 06:00 - 8/3/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
78	14	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #12 of 43.//Perf Stage #12 & 13 of 43.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.25
WL_PERF	Perf stage # 12 of 43 to design. Set plug @ 16,194' WLM'	1.75
PAD	Well SI waiting on frac operations to be completed on the 64H.	1.75
STIM	Frac stage #12 of 43 not as desgined. Issues with hole in discharge manifold on blender.	10
WL_PERF	Perforate stage #13 of 43 as designed	2
PAD	Well SI waiting on frac operations to be completed on the 64H.	8.25

Report #: 15 Daily Operation: 8/3/2015 06:00 - 8/4/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
79	15	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
WSI waiting on 64H issues

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	Held Safety meeting with all personal doing shift change.	0.5
PAD	WSI waiting on 64H issues	23.5

Report #: 16 Daily Operation: 8/4/2015 06:00 - 8/5/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
80	16	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #13-14 of 43//Perf Stage #14-15 of 43.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	JSA wiht all personal doing shift change.	0.5
PLANNED	WSI waiting on 64H ops	6.75
STIM	Frac stage #13 not as designed. Issues with C pump on blender slip stream side Pumped 100% propant	5.75
WL_PERF	Perf Stage #14 of 43 as designed	2
PAD	Waiting on frac ops on 64H	1.75
STIM	Frac stage #14 not as designed due to issues with psi during 1st ramp. Made rate adjustments and was able to finish out stage. Pumped 100% propant	2.25
PAD	Grease frac valves	0.5
WL_PERF	Perf Stage #15 of 43 as designed	2
PAD	Waiting on frac ops on 64H	1.75
STIM	Frac Stg #15 @ report time	0.75

Report #: 17 Daily Operation: 8/5/2015 06:00 - 8/6/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
81	17	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #15-17 of 43.
Perf Stage #16-18 of 43.
Fracing stg 18 @ report time

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
STIM	Frac Stage #15 of 43 as designed.	1.25
WL_PERF	Perf stage #16 of 43 as designed.	2.5
PAD	Waiting on frac ops on 64H	3.75
PAD	PPS crew repairing and replacing acid pump.	1.5
STIM	Frac Stage #16 of 43 as designed.	2.25
WL_PERF	Perf stage #17 of 43 as designed.	2
PAD	Waiting on frac ops on 64H	3
STIM	Frac Stage #17 of 43 as designed.	2.25
WL_PERF	Perf stage #18 of 43 as designed.	2
PAD	Waiting on frac ops on 64H	2.25
STIM	Fracing stg #18 @ report time	1.25

Report #: 18 Daily Operation: 8/6/2015 06:00 - 8/7/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
82	18	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #18-21 of 43.
Perf Stage #19-21 of 43.
RIH to perf stg 22 @ report time.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
STIM	Frac stage #18 of 43 as designed.	1
FRAC_STAC	FMC greasing frac valves.	1
WL_PERF	Perf stage #19 of 43 as designed.	1.5
PAD	Waiting on frac ops on 64H	2.5

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
STIM	Frac stage #19 of 43 as designed.	2
WL_PERF	Perf stage #20 of 43 as designed.	1.75
PAD	Waiting on frac ops on 64H	3
STIM	Frac stage #20 of 43 as designed. 95% prop placed.	2
WL_PERF	Perf stage #21 of 43 as designed.	1.75
PAD	Waiting on frac ops on 64H	3.75
STIM	Frac stage #21 of 43 as designed.	2.25
WL_PERF	Perf stage #22 of 43 @ report time.	1.5

Report #: 19 Daily Operation: 8/7/2015 06:00 - 8/8/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
83	19	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #22-24 of 43.
Perf Stage #22- 25 of 43.
Fracing stg 25 @ report time.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
WL_PERF	Perf stage #22 of 43 as designed.	0.25
PAD	Waiting on frac ops on 64H	3.25
PAD	PPS working on hydraulic leak on blender & changing out valves and seats on (2) pumps.	2
STIM	Frac stage #22 of 43 as designed.	2
WL_PERF	Perf stage #23 of 43 as designed.	1.75
PAD	Waiting on frac ops on 64H	2
STIM	Frac stage #23 of 43 NPTD due to psi 37% prop placed	1.75
WL_PERF	Perf stage #24 of 43 No plug move 2 shots	1.75
PAD	Waiting on frac ops on 64H	1
STIM	Frac stage #24 of 43 NPTD 133% prop placed	2.5
WL_PERF	Perf stage #25 of 43 No plug move 2 shots	1.75
PAD	Waiting on frac ops on 64H	2.5
STIM	Fracing stg 25 @ report time	1.5

Report #: 20 Daily Operation: 8/8/2015 06:00 - 8/9/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
84	20	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #25-27 of 43.
Perf Stage #26-28 of 43.
Fracing stg 28 @ report time.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
STIM	Frac stage #25 of 43 as designed.	0.75
FRAC_STAC	FMC attempted to grease valves. Grease pump not working. Will return @ 1800 to grease.	1
WL_PERF	Perf stage #26 of 43 as designed.	1.5
PAD	Waiting on frac ops on 64H	2.75
PAD	PPS crew changing out 2 stuffing boxes and packing.	3.25
STIM	Frac stage #26 of 43. NPTD. Lost FR pump near the end of the initial 0.5 ppg stage.. Ran addn'l 1,177 Bbls of clean fluid before pump was swapped.. Changed schedule accordingly and did not run 1st sweep. 100% SIF.	2.5
WL_PERF	Perf stage #27 of 43 as designed.	1.5
PAD	Waiting on frac ops on 64H	2.75
STIM	Frac stage #27 of 43 as designed.	2.25
WL_PERF	Perf stage #28 of 43 as designed.	1.5
PAD	Waiting on frac ops on 64H	2
STIM	Frac stage #28 @report time	2.25

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Report #: 21 Daily Operation: 8/9/2015 06:00 - 8/10/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
85	21	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #28-30 of 43.
Perf Stage #29-31 of 43.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
STIM	Frac stage #28 of 43 as designed.	0.25
WL_PERF	Perf stage #29 of 43 as designed.	1.25
PAD	Waiting on frac ops on 64H	5
FRAC_STAC	FMC greasing valves.	1.5
STIM	Frac stage #29 of 43. NPTD. Well pressured out on 3rd 1.00 ppg stage. Well was flushed. Engineer notified, and was advised to move up hole. 61% SIF.	2
WL_PERF	Perf stage #30 of 43 as designed.	1.5
PAD	Waiting on frac ops on 64H	3.5
STIM	Frac stage #30 of 43 NPTD placed 75% prop due to pressure Engineer notified	2
WL_PERF	Perf stage #31 of 43 as designed.	1.75
PAD	Waiting on frac ops on 64H	2.75
ZIP_MAINT	Working on frac pumps	2.5

Report #: 22 Daily Operation: 8/10/2015 06:00 - 8/11/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
86	22	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #31 - 32 of 43.
Perf Stage #32 - 33 of 43.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	JSA	0.25
TEST_PRIME	PPS prime and test lines.	1
PAD	PPS unable to get pop-offs set.	0.75
STIM	Frac stage #31 of 43. NPTD. Additional 36,078 lbs of 30/50 placed in formation per engineer. 115% SIF.	2.25
WL_PERF	Perf stage 32 of 43 as designed.	1.75
PAD	Waiting on frac ops on 64H	11.75
STIM	Frac stage # 32 of 43. NPTD Additional 47,241 lbs of 30/50 placed in formation per engineer. 120% SIF	2.5
WL_PERF	Perf stage 33 of 43 as designed.	1.75
PAD	Waiting on frac ops on 64H	2

Report #: 23 Daily Operation: 8/11/2015 06:00 - 8/12/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
87	23	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage #33 - 35 of 43.
Perf Stage #34 - 36 of 43.
Fracing Stage #36 @ report time

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
SAFETY	Safety meeting/JSA.	0.25
TEST_PRIME	PPS priming and pressure testing.	0.75

TIme Log Summary

Operation	Com	Dur (hr)
STIM	Frac stage #33 of 43. NPTD. Lost FR pump 3,800 Bbls into job. Extended 2nd sweep to 1,620 bbls until issue was resolved. Lost all screens in data van after staging to 1.50 ppg. Called remainder of job off blender. Currently working on retrieving data. 107% SIF.	2.5
WL_PERF	Perf stage #34 of 43 as designed.	1.25
PAD	Waiting on frac ops on 64H	4.75
STIM	Frac stage #34 of 43. NPTD. Additional 36,500 lbs 30/50 placed in formation per engineer. 115% SIF.	2.25
WL_PERF	Perf stage #35 of 43 as designed.	1.75
PAD	Waiting on frac ops on 64H	0.5
STIM	Frac stage #35 of 43. NPTD. Additional 15,600 lbs 30/50 placed in formation per engineer. 106% SIF.	2
WL_PERF	Perf stage #35 of 43 as designed.	1.75
PAD	Waiting on frac ops on 64H	4.5
STIM	Frac stage # 36 @ report time.	1.75

Report #: 24 Daily Operation: 8/12/2015 06:00 - 8/13/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
88	24	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage # 36-39 of 43. Perf Stage #37-39 of 43.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
STIM	Frac stage # 36 of 43 to design	0.75
WL_PERF	Perf Stage #37 of 43 to design	1.25
PAD	Wait on zipper frac on the 64 H	4.5
STIM	Frac stage # 37 of 43 as designed	2
WL_PERF	Perf stage #38 of 43 as designed	1.25
PAD	Wait on zipper frac for 64H	4.25
STIM	Frac stage #38 of 43 as designed.	2
WL_PERF	Perf stage #39 of 43 as designed.	1.5
PAD	Waiting on frac ops on 64H	2.5
STIM	Frac Stage #39 of 43 as designed	2.25
WL_REHEAD	Rehead	0.75
WL_PERF	Running in hole with wireline for Stage #40 of 43 at report time	1

Report #: 25 Daily Operation: 8/13/2015 06:00 - 8/14/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
89	25	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stage # 40,41, 42 of 43. Perf Stage #40,41,42, 43 of 43.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
WL_PERF	Plug and perf stage # 40 of 43 as designed	0.5
PAD	Wait on Zipper Frac for 64H	2.5
STIM	Frac stage # 40 of 43 as designed	2.25
WL_PERF	Plug and Perf Stage #41 of 43 as designed.	1.25
PAD	Wait on zipper frac for the 64H	2.5
STIM	Frac stage # 41 of 43 as designed	2
WL_PERF	Perf stage #42 of 43 as designed.	1.5
PAD	Wait on zipper frac for the 64H	2.75
STIM	Frac Stage #42 of 43 per design.	2
WL_PERF	Perf Stage #43 of 43 per design.	1.5
PAD	Wait on Zipper Frac for 64H	4
STIM	Fracing stage #43 of 43 @ report time	1.25

Report #: 26 Daily Operation: 8/14/2015 06:00 - 8/15/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
90	26	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stg 43 of 43
Wellshut in pending frac ops on 64H
RD PPS Fleet 6

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
STIM	Frac Stg 43 of 43 as designed Ran extra 33,941 lb of sand on last stage to help get rid of sand in silo.	1
PAD	Ready for frac rig down pending frac ops on 64H	8
RURD	Rigging down Frac eq. Cleaning location. Rig down top half of frac stacks.	15

Report #: 27 Daily Operation: 8/15/2015 06:00 - 8/16/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
91	27	0.0			

Operations Summary
Continue RD frac equipment. RU water transfer lines to disposal. Cleaning frac tanks to release.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362,692, 529, 462, 458, 668, 696, 674

TIme Log Summary

Operation	Com	Dur (hr)
RURD	Finish RD frac. Cleaning frac tanks to be released. Setting up transfer pumps from flowback tanks to disposal. PPS moving off frac tanks. PPS removing sand from silos and moving off silos.	24

Report #: 28 Daily Operation: 8/16/2015 06:00 - 8/17/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
92	28	0.0			

Operations Summary
WSI, RD moving Silo's,Release and move working tanks, RD flowback frac manifold and iron, RU flowback manifolds and plug catchers, RD working tank containment, Spot SandX and superloop, begin RU. Re-rig flowback containment for flowback iron.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI waiting on daylight.	1
RURD	PPS on location to move sand silo's to University 2-20 49H, moved working tanks and chemical tanks to University 2-20 49H. RD 2" flow lines. RU manifolds and plug catchers for drill out. Set anchors for coil unit. Set sandx and super loop, release containment under working tanks and re rig front containment wall at flowback tanks to allow room for flow lines to SandX. RU superloop flare line.	15
SHUT_IN	Well shut in. Awaiting coil tubing unit.	8

Report #: 29 Daily Operation: 8/17/2015 06:00 - 8/18/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
93	29	0.0			

Operations Summary
WSI, pending drill out ops on 64H

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	Well shut in pending drill out ops on 64H	24

Report #: 30 Daily Operation: 8/18/2015 06:00 - 8/19/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
94	30	0.0			

Operations Summary
WSI, pending drill out ops on 64H

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI pending drill out ops on 64H	24

Report #: 31 Daily Operation: 8/19/2015 06:00 - 8/20/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
95	31	0.0			

Operations Summary
WSI, pending drill out ops on 64H

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI pending drill out ops on 64H	24

Report #: 32 Daily Operation: 8/20/2015 06:00 - 8/21/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
96	32	0.0			CONQUEST COMPLETIN SERVICES, 4

Operations Summary
WSI, pending drill out ops on 64H. RU coil unit, test lines TIH to plug #43.
Drill CFP's #43 thru #33
Washing down to CFP#32 at report time.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362
Sand Box #
BHA#1- Overall length 35.34 ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor

TIme Log Summary

Operation	Com	Dur (hr)
PAD	Well shut in while waiting on CTU to finish on 64H well.	9.5
CT_BHA	Removed nightcap. Stacked CTU BOP well. Broke off lubricator and installed new coil connector. Made up Coil BHA. Change out stripper rubber. Test to 6500 made repairs on plug catcher, test to 6500 made repairs on plug catcher, test to 6500 made repairs on manifold. Test to 6500 good test. Equalize to well open well with 1700 PSI on casing.	4.75
CT_RIH	Trip in hole to CFP #43	1.65
CT_DOP	Tag CFP # 43 @ 8,715 ft CTM. Wireline set Magnum plug @ 8,764 ft. Drill plug in 15 minutes.Pump 3.75 bpm @ 3865 psi//Return 4 bpm @ 1250 psi.	0.3
CT_RIH	Wash to CFP #42	0.35
CT_DOP	Tag CFP # 42 @ 8,958 ft CTM. Wireline set Magnum plug @ 8,994 ft. Drill plug in 14 minutes.Pump 3.75 bpm @ 3865 psi//Return 4 bpm @ 1250 psi. Light sand and plug parts in returns.	0.24
CT_RIH	Wash to CFP #41	0.4
CT_DOP	Tag CFP # 41 @ 9,234 ft CTM. Wireline set Magnum plug @ 9,192 ft. Drill plug in 22 minutes.Pump 3.75 bpm @ 3900 psi//Return 4 bpm @ 1300 psi. Medium heavy sand and plug parts in returns.	0.367
CT_RIH	Wash to CFP #40	0.4
CT_DOP	Tag CFP # 40 @ 9,474 ft CTM. Wireline set Magnum plug @ 9,432 ft. Drill plug in 20 minutes.Pump 3.75 bpm @ 3800 psi//Return 4 bpm @ 1350 psi. Medium heavy sand and plug parts in returns.	0.333
CT_RIH	Wash to CFP #39	0.467
CT_DOP	Tag CFP # 39 @ 9,660 ft CTM. Wireline set Magnum plug @ 9,9714 ft. Drill plug in 15 minutes.Pump 3.75 bpm @ 3675 psi//Return 4 bpm @ 1225 psi. Medium heavy sand and plug parts in returns.	0.25
CT_RIH	Wash to CFP #38	0.467
CT_DOP	Tag CFP # 38 @ 9,903 ft CTM. Wireline set Magnum plug @ 9,954 ft. Drill plug in 15 minutes.Pump 3.75 bpm @ 3870 psi//Return 4 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.25
CT_RIH	Wash to CFP #37	0.433
CT_DOP	Tag CFP # 37 @ 10,125 ft CTM. Wireline set Magnum plug @ 10,194 ft. Drill plug in 13 minutes.Pump 3.75 bpm @ 3870 psi//Return 4 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.2
CT_RIH	Wash to CFP #36	0.817
CT_DOP	Tag CFP # 36 @ 10,381 ft CTM. Wireline set Magnum plug @ 10,434 ft. Drill plug in 10 minutes.Pump 3.75 bpm @ 3870 psi//Return 4 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.167
CT_RIH	Wash to CFP #35	0.533
CT_DOP	Tag CFP # 35 @ 10,626 ft CTM. Wireline set Magnum plug @ 10,674 ft. Drill plug in 10 minutes.Pump 3.75 bpm @ 3800 psi//Return 4 bpm @ 1350 psi. Medium heavy sand and plug parts in returns.	0.167
CT_RIH	Wash to CFP #34	0.583
CT_DOP	Tag CFP # 34 @ 10,883 ft CTM. Wireline set Magnum plug @ 10,925 ft. Drill plug in 12 minutes.Pump 3.75 bpm @ 3870 psi//Return 4 bpm @ 1300 psi. Medium heavy sand and plug parts in returns.	0.2
CT_RIH	Wash down to CFP #33	0.483

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
CT_DOP	Tag CFP # 33 @ 11,108 ft CTM. Wireline set Magnum plug @ 11,150 ft. Drill plug in 12 minutes.Pump 3.75 bpm @ 3870 psi//Return 4 bpm @ 1300 psi. Medium heavy sand and plug parts in returns.	0.2
CT_RIH	Wash down to CFP #32 at report time	0.5

Report #: 33 Daily Operation: 8/21/2015 06:00 - 8/22/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
97	33	0.0			CONQUEST COMPLETIN SERVICES, 4

Operations Summary
Drill CFP's #32 thru #9
Washing down to CFP#8 at report time.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362
Sand Box #2040--20,000# sand
Sand Box #20S37---20,000# sand
Sand Box2040 In use
BHA#1- Overall length 35.34 ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor

TIme Log Summary

Operation	Com	Dur (hr)
CT_RIH	Finish wash down to CFP #32	0.15
CT_DOP	Tag CFP # 32 @ 11,337 ft CTM. Wireline set Magnum plug @ 11,394 ft. Drill plug in 12 minutes.Pump 3.5 bpm @ 3800 psi//Return 3.75 bpm @ 1400 psi. Medium heavy sand and plug parts in returns.	0.2
CT_RIH	Wash down to CFP #31.	0.69
CT_DOP	Tag CFP # 31 @ 11,593 ft CTM. Wireline set Magnum plug @ 11,634 ft. Drill plug in 15 minutes.Pump 3.5 bpm @ 3800 psi//Return 3.75 bpm @ 1400 psi. Medium heavy sand and plug parts in returns.	0.25
CT_RIH	Wash down to CFP #30	0.55
CT_DOP	Tag CFP # 30 @ 11,834 ft CTM. Wireline set Magnum plug @ 11,874 ft. Drill plug in 14 minutes.Pump 3.5 bpm @ 3800 psi//Return 3.75 bpm @ 1400 psi. Medium heavy sand and plug parts in returns.	0.23
CT_RIH	Wash down to CFP #29.	0.58
CT_DOP	Tag CFP # 29 @ 12,068 ft CTM. Wireline set Magnum plug @ 12,110 ft. Drill plug in 13 minutes.Pump 3.5 bpm @ 3700 psi//Return 3.75 bpm @ 1400 psi. Medium heavy sand and plug parts in returns.	0.22
CT_RIH	Wash down to CFP #28.	0.62
CT_DOP	Tag CFP # 28 @ 12,314 ft CTM. Wireline set Magnum plug @ 12,354 ft. Drill plug in 14 minutes.Pump 3.5 bpm @ 3800 psi//Return 3.75 bpm @ 1450 psi. Medium heavy sand and plug parts in returns.	0.23
CT_RIH	Wash down to CFP #27.	0.5
CT_DOP	Tag CFP # 27 @ 12,550 ft CTM. Wireline set Magnum plug @ 12,594 ft. Drill plug in 29 minutes.Pump 3.5 bpm @ 3700 psi//Return 3.75 bpm @ 1450 psi. Medium heavy sand and plug parts in returns.	0.48
CT_RIH	Wash down to CFP #26.	0.84
CT_DOP	Tag CFP # 26 @ 12,793 ft CTM. Wireline set Magnum plug @ 12,834 ft. Drill plug in15 minutes.Pump 3.5 bpm @ 3400 psi//Return 3.8 bpm @ 1400 psi. Medium heavy sand and plug parts in returns.	0.25
CT_RIH	Wash down to CFP #25.	0.78
CT_DOP	Tag CFP # 25 @ 13,031 ft CTM. Wireline set Magnum plug @ 13,074 ft. Drill plug in16 minutes.Pump 3.5 bpm @ 3500 psi//Return 3.8 bpm @ 1400 psi. Medium heavy sand and plug parts in returns.	0.27
CT_RIH	Did not run CFP #24. Wash down to CFP #23.	0.95
CT_DOP	Tag CFP # 23 @ 13,510 ft CTM. Wireline set Magnum plug @ 13,554 ft. Drill plug in14 minutes.Pump 3.5 bpm @ 4100 psi//Return 3.8 bpm @ 1300 psi. Medium heavy sand and plug parts in returns.	0.23
CT_RIH	Wash down to CFP #22.	0.97
CT_DOP	Tag CFP # 22 @ 13,755 ft CTM. Wireline set Magnum plug @ 13,794 ft. Drill plug in14 minutes.Pump 3.5 bpm @ 4000 psi//Return 3.8 bpm @ 1300 psi. Medium heavy sand and plug parts in returns. Began pumping Pipe on Pipe @ .4 GPB.	0.23
CT_RIH	Wash down to CFP #21.	0.58
CT_DOP	Tag CFP # 21 @ 13,990 ft CTM. Wireline set Magnum plug @ 14,034 ft. Drill plug in15 minutes.Pump 3.5 bpm @ 3700 psi//Return 3.8 bpm @ 1300 psi. Medium heavy sand and plug parts in returns.	0.25
CT_RIH	Wash down to CFP #20	0.79
CT_DOP	Tag CFP # 20 @ 14,242 ft CTM. Wireline set Magnum plug @ 14,286 ft. Drill plug in13 minutes.Pump 3.5 bpm @ 3700 psi//Return 3.8 bpm @ 1300 psi. Medium heavy sand and plug parts in returns.	0.22
CT_RIH	Wash down to CFP #19.	0.83
CT_DOP	Tag CFP # 19 @ 14,472 ft CTM. Wireline set Magnum plug @ 14,514 ft. Drill plug in17 minutes.Pump 3.5 bpm @ 3700 psi//Return 3.8 bpm @ 1375 psi. Medium heavy sand and plug parts in returns.	0.28
CT_RIH	Wash down to CFP #18.	0.417
CT_DOP	Tag CFP # 18 @ 14,694 ft CTM. Wireline set Magnum plug @ 14,754 ft. Drill plug in12 minutes.Pump 3.8 bpm @ 4000 psi//Return 3.8 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.2

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
CT_RIH	Wash down To CFP #17	0.9
CT_DOP	Tag CFP # 17 @ 14,948 ft CTM. Wireline set Magnum plug @ 14,994 ft. Drill plug in12 minutes.Pump 3.8 bpm @ 4000 psi//Return 4 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.2
CT_RIH	Wash down to CFP #16	0.783
CT_DOP	Tag CFP # 16 @ 15,234 ft CTM. Wireline set Magnum plug @ 15,192 ft. Drill plug in12 minutes.Pump 4 bpm @ 4000 psi//Return 3.8 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.2
CT_RIH	RIH to CFP #15 and developed short in wall that shut down computer screen. Attempt to repair short no success. Decision was made to drill CFP's using counter on reel trailer. A -2' discrepancy between reel counter and computer screen was noted.	1.283
CT_RIH	Wash down to CFP #15	0.44
CT_DOP	Tag CFP # 15 @ 15,431 ft CTM. Wireline set Magnum plug @ 15,574 ft. Drill plug in11 minutes.Pump 3.8 bpm @ 4000 psi//Return 4 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.183
CT_RIH	Wash down to CFP #14	0.667
CT_DOP	Tag CFP # 14 @ 15,672 ft CTM. Wireline set Magnum plug @ 15,714 ft. Drill plug in13 minutes.Pump 3.8 bpm @ 4000 psi//Return 4 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.217
CT_RIH	Wash down to CFP#13, CFP #13 no tag, wash Down to CFP #12	1.717
CT_DOP	Tag CFP # 12 @ 16,150 ft CTM. Wireline set Magnum plug @ 16,194 ft. Drill plug in12 minutes.Pump 3.8 bpm @ 4000 psi//Return 4 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.2
CT_RIH	Wash down to CFP #11	0.65
CT_DOP	Tag CFP # 11 @ 16,378 ft CTM. Wireline set Magnum plug @ 16,434 ft. Drill plug in13 minutes.Pump 3.8 bpm @ 4000 psi//Return 4 bpm @ 1250 psi. Medium heavy sand and plug parts in returns.	0.217
CT_RIH	Wash down to CFP #10	0.317
CT_DOP	Tag CFP # 10 @ 16,563 ft CTM. Wireline set Magnum plug @ 16,674 ft. Drill plug in 30 minutes.Pump 3.8 bpm @ 4000 psi//Return 4 bpm @ 1200 psi. Medium heavy sand and plug parts in returns.	0.5
CT_RIH	Wash down to CFP #9	1.667
CT_DOP	Tag CFP # 9 @ 16,900 ft CTM. Wireline set Magnum plug @ 16,914 ft. Drill plug in 11 minutes.Pump 3.8 bpm @ 4000 psi//Return 4 bpm @ 1300 psi. Medium heavy sand and plug parts in returns.	0.183
CT_RIH	Wash down to CFP #8	0.9

Report #: 34 Daily Operation: 8/22/2015 06:00 - 8/23/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
98	34	0.0			CONQUEST COMPLETIN SERVICES, 4

Operations Summary

Drill CFP's #8 thru #1.
Tag PBTD 18,844' CTM
Drop ball open PBL, pump sweeps
Drop balls and close PBL pump sweep and POOH with BHA.
EOC @ 15,630' at report time.

Increased friction after CFP #7

Remarks

Pioneer Frac Tanks on Location: 252, 883, 694, 362
Sand Box #2040--20,000# sand
Sand Box #20S37---20,000# sand
Sand Box2040 --15,000# sand
Sand box 20-08 10,000# sand
BHA#1- Overall length 35.34 ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor

TIme Log Summary

Operation	Com	Dur (hr)
CT_RIH	Wash down to CFP #8.	0.5
CT_DOP	Tag CFP # 8 @ 17,132 ft CTM. Wireline set Magnum plug @ 17,154 ft. Drill plug in 14 minutes. Pump 4 bpm @ 4100 psi//Return 4.2 bpm @ 1200 psi. Medium heavy sand and plug parts in returns.	0.24
CT_RIH	Wash down to CFP #6. Did not tag # 7 CFP.	3.05
CT_DOP	Tag CFP # 6 @ 17,655 ft CTM. Wireline set Magnum plug @ 17,634 ft. Drill plug in 13 minutes. Pump 4 bpm @ 4100 psi//Return 4.2 bpm @ 1200 psi. Medium heavy sand and plug parts in returns.	0.22
CT_RIH	Wash down to CFP #5.	1.22
CT_DOP	Tag CFP # 5 @ 17,827 ft CTM. Wireline set Magnum plug @ 17,874 ft. Drill plug in 14 minutes. Pump 4 bpm @ 4100 psi//Return 4.2 bpm @ 1200 psi. Medium heavy sand and plug parts in returns.	0.4
CT_RIH	Wash down to CFP #4.	0.38
CT_MAINT	Shut down CT operations at a 17,918' to tighten flange bolts on lubricator stack while continuing to circulate well.	0.5
CT_RIH	Continue wash down to CFP #4 .	2.25

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
CT_DOP	Tag CFP # 4 @ 18,096 ft CTM. Wireline set Magnum plug @ 18,114 ft. Drill plug in 11 minutes. Pump 4 bpm @ 4100 psi//Return 4.2 bpm @ 1200 psi. Medium heavy sand and plug parts in returns.	0.17
CT_RIH	Wash down to CFP #3.	2.42
CT_DOP	Tag CFP # 3 @ 18,307 ft CTM. Wireline set Magnum plug @ 18,354 ft. Drill plug in 33 minutes. Pump 4 bpm @ 4100 psi//Return 4.2 bpm @ 1200 psi. Medium heavy sand and plug parts in returns.	0.57
CT_RIH	Wash down to CFP #2	2.55
CT_DOP	Tag CFP # 2 @ 18,555 ft CTM. Wireline set Magnum plug @ 18,600 ft. Drill plug in 10 minutes. Pump 4 bpm @ 4100 psi//Return 4.2 bpm @ 1200 psi. Medium heavy sand and plug parts in returns.	0.167
CT_RIH	Wash down to CFP #1	1.7
CT_DOP	Tag CFP # 1 @ 18,775 ft CTM. Wireline set Magnum plug @ 18,811 ft. Drill plug in 10 minutes. Pump 4 bpm @ 4100 psi//Return 4.2 bpm @ 1200 psi. Medium heavy sand and plug parts in returns.	0.167
CT_CIRC	Wash down to PBTD CTM 18,844'. PU 10'	0.817
CT_CIRC	Shut down pumps drop ball to open PBL. Drop ball and pump down to PBL.	0.667
CT_CIRC	Open PBL increase rate to 5.5 BPM @ 5800 PSI pump 20/10/20/10/20 sweeps to surface. Drop balls to close PBL pump 20 BBL sweep and pump above EOC, start out of hole with BHA.	6.02

Report #: 35 Daily Operation: 8/23/2015 06:00 - 8/24/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
99	35	0.0			CONQUEST COMPLETIN SERVICES, 4

Operations Summary

Finish POOH with coil tubing. RD coil and support equipment. RU wireline and pump truck. Flush well with 240 BBLs fresh water. Made gauge ring run to 8500'. Mis-run #1 due to quick connect short. Mis-run #2 due to O ring failure allowing charge to get wet. Repair setting tool O ring and RIH with packer. Set packer at 8419'. POOH with setting tool at report time.

Remarks

NOTE: Unable to find WL truck on short notice is the reason for the third set packer run with API wireline.

Pioneer Frac Tanks on Location: 252, 883, 694, 362
Sand Box #2040--20,000# sand
Sand Box #20S37---20,000# sand
Sand Box2040 --15,000# sand
Sand box 20-08 10,000# sand
BHA#1- Overall length 35.34 ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor

TIme Log Summary

Operation	Com	Dur (hr)
CT_POOH	Finish POOH with coil tubing.	5.5
RURD	Unflange CT lubricator. Laydown CT BHA. Set lubricator back on well and purge coil tubing with N2. Unflanged lubricator and moved off well. Installed night cap. Left well shut in. RDMO Conquest CTU and related equipment.	6
RURD	RU API wireline to run packers in 65H and 64H	1.5
CT_FLUSH	Pump 240 BBLs down casing to flush well. Pumped 16 BPM @ 2300 PSI, ending rate 16 BPM @ 3300 PSI.	0.75
RURD	RD Raider Pump truck.	0.84
WL_GR/JB	MIRU API Wireline. RIH w/4.625 GR/JB to 8500'. POOH with gauge ring.	1.883
WL_PKR	Got on depth with packer. Energized to fire cap did not see break. Waited 5 minutes slack off 4' PU 4' energized to cap again no break. wait 5 minutes POOH with packer. Check for short, quick connect had shorted out, replace quick connect and RIH with packer.	3.5
WL_PKR	On depth with packer @ 8,419' WLM. Energized cap, meter showed break. but setting tool did not stroke. wait 5 minutes and POOH with packer. Inspect setting tool charge wet, leaking by O ring. Rebuild setting tool. NU to well. open well and RIH with packer. On depth with packer 8,419'. energize cap, packer set.	3.85
WL_PKR	POOH with setting tool.	0.183

Report #: 36 Daily Operation: 8/24/2015 06:00 - 8/25/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
100	36	0.0			

Operations Summary

Well shut in pending tube up ops on 64H. Install tubing hanger with TIW valve, ND frac stack NU BOP's, Move in RU WOR and support equipment, load pipe racks with 2 3/8" tubing talley same. Ready to make up tools and TIH hole.

Remarks

Pioneer Frac Tanks on Location: 252, 883, 694, 362
Sand Box #2040--20,000# sand
Sand Box #20S37---20,000# sand
Sand Box2040 --15,000# sand
Sand box 20-08 10,000# sand

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
WL_PKR	Finish POOH with packer setting tool. Open well through flowback for negative test. Test good. Wireline moved over to 64H well.	0.5
SHUT_IN	WSI pending tube up ops on 64H	17.5
RURD	Install tubing hanger with TIW, ND frac valve and mud cross, NU BOP's, spot WOR and RU same with all support equipment. Loaded pipe racks with 261 jts 2 3/8"4.7# 8RD L80 tubing.	6

Report #: 37 Daily Operation: 8/25/2015 06:00 - 8/26/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
101	37	0.0			

Operations Summary
PU on/off tool, TIH with GLV & Sage Rider gauges on production string. Land tubing and Install Production tree. Test void to 5K. Released, RDMO WOR. Clean frac tanks and SandX. WSI

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362
Sand Box #2040--20,000# sand
Sand Box #20S37---20,000# sand
Sand Box2040 --15,000# sand
Sand box 20-08 10,000# sand

TIme Log Summary

Operation	Com	Dur (hr)
WOV_TBG	RIH with 2 3/8" Prod tubing with 13 GLV,s and Sage Rider gauges. End of tubing at 8371'	7
WOV_TBG	Tag Packer, latch on to packer and measure for space out, PU 2' sub, install in string one joint below GL. Install tubing hanger and TIW valve. land tubing with 14K down on packer, 20k on tubing hangar.	2
RURD	RD floor, Check well for PSI, ND BOP's, NU tree. Hook up gauge line and test for continuity, Test void to 5K good test.	1.5
RURD	RDMO WOR and support equipment and release.	1.5
SHUT_IN	Waiting on production to tie in well.	1.5
LOCATION	Sprint Super sucker on location to clean flowback tanks and SandX. PJSM begin clean out. NOTE: Frac tank 694 unable to get manway open due to rusty threads on latch blots. Notified Dustin Grantham with PPS	6.5
SHUT_IN	WSI	4

Report #: 38 Daily Operation: 8/26/2015 06:00 - 8/27/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
102	38	0.0			

Operations Summary
Production tied in well. Well shut in. Began releasing rental equipment.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362
Sand Box #2040--20,000# sand
Sand Box #20S37---20,000# sand
Sand Box2040 --15,000# sand
Sand box 20-08 10,000# sand

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	Well shut in. Production tied in well. Began releasing rental equipment.	24

Report #: 39 Daily Operation: 8/27/2015 06:00 - 8/28/2015 06:00

Job Category	Primary Job Type	AFE Number
ORIG COMPLETION	OCM	035066;035964

Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
103	39	0.0			

Operations Summary
Rupture packer disc at 3100 psi. Flushed well down tubing with 254 bbls treated FW at 10 bpm at 3000 psi. Turned well over to production. Continue to release and move out equipment

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362
Sand Box #2040--20,000# sand
Sand Box #20S37---20,000# sand
Sand Box2040 --15,000# sand
Sand box 20-08 10,000# sand

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	Well shut in, No Activity.	5.5
PD_DISK	MIRU Quasar Energy equipment. Pressure tubing to 2900 psi and ruptured disc. Pump255 bbls treated fresh water down tubing at final rate of 10 psi at 3000 psi.	1.5

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

TIme Log Summary

Operation	Com	Dur (hr)
SHUT_IN	Turned well over to Production.	17

WELL DETAILS

Well Name	API/UWI	Operator
UNIVERSITY 2-20 65H	42-383-39267-0000	PIONEER NATURAL RESRC USA, INC

Wellbore Hole Size

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	End Date
Conductor	30	26.5	126.5	5/15/2015	5/15/2015
Surface	17 1/2	126.5	619.0	5/17/2015	5/17/2015
Intermediate	12 1/4	619.0	5,212.0	5/19/2015	5/21/2015
Production	8 1/2	5,212.0	18,995.0	6/15/2015	6/28/2015

Conductor Casing

Run Date	Set Depth (ftKB)	Centralizers
5/14/2015	120.0	

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	20	19.124	94.00	J-55	120.00	1	0.0	120.0

Run Date	Set Depth (ftKB)	Centralizers
5/15/2015	126.5	

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Conductor	20	19.124	94.00	H-40	100.00		26.5	126.5

Surface Casing

Set Depth (ftKB)	Run Date	Centralizers
600.0	5/14/2015	

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	13 3/8	12.615	54.50	J-55	600.00	15	0.0	600.0

Set Depth (ftKB)	Run Date	Centralizers
619.0	5/18/2015	4

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	13 3/8	12.615	54.50	J-55	0.00	0	29.6	29.6
Cut off	13 3/8	12.615		J-55	8.00	1	29.6	37.6
Casing Joints	13 3/8	12.615	54.50	J-55	532.92	12	37.6	570.6
Float Collar	13 3/8	12.615		J-55	1.53	1	570.6	572.1
Casing Joints	13 3/8	12.615	54.50	J-55	45.01	1	572.1	617.1
Float Shoe	13 3/8	12.615		J-55	1.90	1	617.1	619.0

Surface Casing Cement

Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)
Casing	Surface, 619.0ftKB	5/18/2015	5/18/2015	SCHLUMBERGER	26.5	619.0

Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)
Class C	487	1.71	13.60
Class H	100	1.35	14.80

Intermediate Casing

Set Depth (ftKB)	Run Date	Centralizers
5,168.3	5/22/2015	

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Pup Joint	9 5/8	8.835		L-80	0.00	0	30.0	30.0
Casing Joints	9 5/8	8.835	40.00	L-80	0.00	0	30.0	30.0
Landing Joint	9 5/8	8.835		L-80	0.00	0	30.0	30.0
Casing Hanger	9 5/8	8.835		L-80	4.00	1	30.0	34.0
Pup Joint	9 5/8	8.835		L-80	18.49	2	34.0	52.5
Casing Joints	9 5/8	8.835	40.00	L-80	2,459.83	54	52.5	2,512.4
Casing Joints - RytWrap	9 5/8	8.835	40.00	L-80 IC	2,559.89	56	2,512.4	5,072.3
Float Collar	9 5/8	8.835		L-80	1.58	1	5,072.3	5,073.8
Casing Joints	9 5/8	8.835	40.00	L-80	92.59	2	5,073.8	5,166.4
Float Shoe	9 5/8	8.835		L-80	1.88	1	5,166.4	5,168.3

Set Depth (ftKB)	Run Date	Centralizers
5,200.0	5/14/2015	

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	9 5/8	8.835	40.00	L-80	5,200.00	130	0.0	5,200.0

Intermediate Casing Cement

Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)
Casing	Intermediate, 5,168.3ftKB	5/22/2015	5/23/2015	SCHLUMBERGER	2,950.0	5,168.3

Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)
Mud Push	0		9.80
TXI LITEWEIGHT	365	2.25	11.50
Class H	194	1.07	16.40
Fresh water	0		8.30

Production Casing

Set Depth (ftKB)	Run Date	Centralizers
18,980.3	7/2/2015	68

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	5 1/2	4.778	20.00	P-110	0.00	0	28.0	28.0
Landing Joint	5 1/2	4.778		P-110	0.00	1	28.0	28.0
Liner Hanger	5 1/2	4.778		P-110	4.00	1	28.0	32.0
Casing Joints	5 1/2	4.778	20.00	P-110	7,773.83	191	32.0	7,805.8
Marker Joint	5 1/2	4.548	20.00	P-110	21.40	1	7,805.8	7,827.2
Casing Joints	5 1/2	4.778	20.00	P-110	213.62	5	7,827.2	8,040.9
Marker Joint	5 1/2	4.548	20.00	P-110	19.96	1	8,040.9	8,060.8
Casing Joints	5 1/2	4.778	20.00	P-110	10,757.75	263	8,060.8	18,818.6
Pup Joint	5 1/2	4.778		P-110	20.00	1	18,818.6	18,838.6
Toe Sleeve	5 1/2	4.548	26.00	P-110	5.33	1	18,838.6	18,843.9
Pup Joint	5 1/2	4.778		P-110	9.72	1	18,843.9	18,853.6
Casing Joints	5 1/2	4.778	20.00	P-110	42.27	1	18,853.6	18,895.9
Float Collar	5 1/2	4.548	26.00	P-110	1.80	1	18,895.9	18,897.7
Casing Joints	5 1/2	4.778	20.00	P-110	80.28	2	18,897.7	18,978.0
Reaming Shoe	5 1/2	4.778		P-110	2.33	1	18,978.0	18,980.3

Set Depth (ftKB)	Run Date	Centralizers
19,056.0	5/14/2015	

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	5 1/2	4.778	20.00	P-110	19,056.00	477	0.0	19,056.0

Production Casing Cement

Type	String	Cementing Start Date	Cementing End Date	Cementing Company	Top (ftKB)	Btm (ftKB)
Casing	Production, 18,980.3ftKB	7/2/2015	7/2/2015	SCHLUMBERGER	4,200.0	18,980.3

Class	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)
spacer	0	0.00	10.50
TXI LITEWEIGHT	387	2.43	11.50
TXI LITEWEIGHT	1,615	1.74	12.50
dsplmt	0	1.00	8.30

Cement Squeeze

Description	Type	String	Cementing Start Date	Cementing End Date	Top (ftKB)	Btm (ftKB)

Amount (sacks)	Yield (ft³/sack)	Dens (lb/gal)

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
8,557.0	8,559.0	Wolfcamp B-2, Original	5.0	10	
8,617.0	8,619.0	Wolfcamp B-2, Original	5.0	10	
8,677.0	8,679.0	Wolfcamp B-2, Original	5.0	10	
8,737.0	8,739.0	Wolfcamp B-2, Original	5.0	10	
8,797.0	8,799.0	Wolfcamp B-2, Original	5.0	10	
8,857.0	8,859.0	Wolfcamp B-2, Original	5.0	10	
8,917.0	8,919.0	Wolfcamp B-2, Original	5.0	10	
8,977.0	8,979.0	Wolfcamp B-2, Original	5.0	10	

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
9,037.0	9,039.0	Wolfcamp B-2, Original	5.0	10	
9,097.0	9,099.0	Wolfcamp B-2, Original	5.0	10	
9,157.0	9,159.0	Wolfcamp B-2, Original	5.0	10	
9,217.0	9,219.0	Wolfcamp B-2, Original	5.0	10	
9,277.0	9,279.0	Wolfcamp B-2, Original	5.0	10	
9,337.0	9,339.0	Wolfcamp B-2, Original	5.0	10	
9,397.0	9,399.0	Wolfcamp B-2, Original	5.0	10	
9,457.0	9,459.0	Wolfcamp B-2, Original	5.0	10	
9,517.0	9,519.0	Wolfcamp B-2, Original	5.0	10	
9,577.0	9,579.0	Wolfcamp B-2, Original	5.0	10	
9,637.0	9,639.0	Wolfcamp B-2, Original	5.0	10	
9,697.0	9,699.0	Wolfcamp B-2, Original	5.0	10	
9,757.0	9,759.0	Wolfcamp B-2, Original	5.0	10	
9,817.0	9,819.0	Wolfcamp B-2, Original	5.0	10	
9,877.0	9,879.0	Wolfcamp B-2, Original	5.0	10	
9,937.0	9,939.0	Wolfcamp B-2, Original	5.0	10	
9,997.0	9,999.0	Wolfcamp B-2, Original	5.0	10	
10,062.0	10,064.0	Wolfcamp B-2, Original	5.0	10	
10,117.0	10,119.0	Wolfcamp B-2, Original	5.0	10	
10,177.0	10,179.0	Wolfcamp B-2, Original	5.0	10	
10,237.0	10,239.0	Wolfcamp B-2, Original	5.0	10	
10,302.0	10,304.0	Wolfcamp B-2, Original	5.0	10	
10,357.0	10,359.0	Wolfcamp B-2, Original	5.0	10	
10,417.0	10,419.0	Wolfcamp B-2, Original	5.0	10	
10,477.0	10,479.0	Wolfcamp B-2, Original	5.0	10	
10,537.0	10,539.0	Wolfcamp B-2, Original	5.0	10	
10,597.0	10,599.0	Wolfcamp B-2, Original	5.0	10	
10,657.0	10,659.0	Wolfcamp B-2, Original	5.0	10	
10,717.0	10,719.0	Wolfcamp B-2, Original	5.0	10	
10,777.0	10,779.0	Wolfcamp B-2, Original	5.0	10	
10,837.0	10,839.0	Wolfcamp B-2, Original	5.0	10	
10,897.0	10,899.0	Wolfcamp B-2, Original	5.0	10	
10,957.0	10,959.0	Wolfcamp B-2, Original	5.0	10	
11,017.0	11,019.0	Wolfcamp B-2, Original	5.0	10	
11,077.0	11,079.0	Wolfcamp B-2, Original	5.0	10	
11,135.0	11,137.0	Wolfcamp B-2, Original	5.0	10	
11,197.0	11,199.0	Wolfcamp B-2, Original	5.0	10	
11,257.0	11,259.0	Wolfcamp B-2, Original	5.0	10	
11,317.0	11,319.0	Wolfcamp B-2, Original	5.0	10	
11,377.0	11,379.0	Wolfcamp B-2, Original	5.0	10	
11,437.0	11,439.0	Wolfcamp B-2, Original	5.0	10	
11,497.0	11,499.0	Wolfcamp B-2, Original	5.0	10	
11,557.0	11,559.0	Wolfcamp B-2, Original	5.0	10	
11,617.0	11,619.0	Wolfcamp B-2, Original	5.0	10	
11,677.0	11,679.0	Wolfcamp B-2, Original	5.0	10	
11,737.0	11,739.0	Wolfcamp B-2, Original	5.0	10	
11,797.0	11,799.0	Wolfcamp B-2, Original	5.0	10	
11,857.0	11,859.0	Wolfcamp B-2, Original	5.0	10	
11,917.0	11,919.0	Wolfcamp B-2, Original	5.0	10	
11,977.0	11,979.0	Wolfcamp B-2, Original	5.0	10	
12,037.0	12,039.0	Wolfcamp B-2, Original	5.0	10	
12,093.0	12,095.0	Wolfcamp B-2, Original	5.0	10	Moved -4' due to collar.
12,157.0	12,159.0	Wolfcamp B-2, Original	5.0	10	
12,217.0	12,219.0	Wolfcamp B-2, Original	5.0	10	

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
12,277.0	12,279.0	Wolfcamp B-2, Original	5.0	10	
12,337.0	12,339.0	Wolfcamp B-2, Original	5.0	10	
12,397.0	12,399.0	Wolfcamp B-2, Original	5.0	10	
12,457.0	12,459.0	Wolfcamp B-2, Original	5.0	10	
12,517.0	12,519.0	Wolfcamp B-2, Original	5.0	10	
12,577.0	12,579.0	Wolfcamp B-2, Original	5.0	10	
12,637.0	12,639.0	Wolfcamp B-2, Original	5.0	10	
12,697.0	12,699.0	Wolfcamp B-2, Original	5.0	10	
12,757.0	12,759.0	Wolfcamp B-2, Original	5.0	10	
12,817.0	12,819.0	Wolfcamp B-2, Original	5.0	10	
12,877.0	12,879.0	Wolfcamp B-2, Original	5.0	10	
12,937.0	12,939.0	Wolfcamp B-2, Original	5.0	10	
12,997.0	12,999.0	Wolfcamp B-2, Original	5.0	10	
13,057.0	13,059.0	Wolfcamp B-2, Original	5.0	10	
13,120.0	13,122.0	Wolfcamp B-2, Original	5.0	10	
13,177.0	13,179.0	Wolfcamp B-2, Original	5.0	10	
13,237.0	13,239.0	Wolfcamp B-2, Original	5.0	10	
13,294.0	13,296.0	Wolfcamp B-2, Original	5.0	10	
13,357.0	13,359.0	Wolfcamp B-2, Original	5.0	10	
13,417.0	13,419.0	Wolfcamp B-2, Original	5.0	10	
13,477.0	13,479.0	Wolfcamp B-2, Original	5.0	10	
13,537.0	13,539.0	Wolfcamp B-2, Original	5.0	10	
13,597.0	13,599.0	Wolfcamp B-2, Original	5.0	10	
13,657.0	13,659.0	Wolfcamp B-2, Original	5.0	10	
13,717.0	13,719.0	Wolfcamp B-2, Original	5.0	10	
13,777.0	13,779.0	Wolfcamp B-2, Original	5.0	10	
13,837.0	13,839.0	Wolfcamp B-2, Original	5.0	10	
13,897.0	13,899.0	Wolfcamp B-2, Original	5.0	10	
13,957.0	13,959.0	Wolfcamp B-2, Original	5.0	10	
14,012.0	14,014.0	Wolfcamp B-2, Original	5.0	10	
14,077.0	14,079.0	Wolfcamp B-2, Original	5.0	10	
14,137.0	14,139.0	Wolfcamp B-2, Original	5.0	10	
14,194.0	14,196.0	Wolfcamp B-2, Original	5.0	10	Moved +3' due to collar.
14,257.0	14,259.0	Wolfcamp B-2, Original	5.0	10	
14,322.0	14,324.0	Wolfcamp B-2, Original	5.0	10	
14,377.0	14,379.0	Wolfcamp B-2, Original	5.0	10	
14,437.0	14,439.0	Wolfcamp B-2, Original	5.0	10	
14,497.0	14,499.0	Wolfcamp B-2, Original	5.0	10	
14,557.0	14,559.0	Wolfcamp B-2, Original	5.0	10	
14,617.0	14,619.0	Wolfcamp B-2, Original	5.0	10	
14,677.0	14,679.0	Wolfcamp B-2, Original	5.0	10	
14,737.0	14,739.0	Wolfcamp B-2, Original	5.0	10	
14,797.0	14,799.0	Wolfcamp B-2, Original	5.0	10	
14,857.0	14,859.0	Wolfcamp B-2, Original	5.0	10	
14,917.0	14,919.0	Wolfcamp B-2, Original	5.0	10	
14,977.0	14,979.0	Wolfcamp B-2, Original	5.0	10	
15,037.0	15,039.0	Wolfcamp B-2, Original	5.0	10	
15,097.0	15,099.0	Wolfcamp B-2, Original	5.0	10	
15,157.0	15,159.0	Wolfcamp B-2, Original	5.0	10	
15,212.0	15,214.0	Wolfcamp B-2, Original	5.0	10	
15,277.0	15,279.0	Wolfcamp B-2, Original	5.0	10	
15,337.0	15,339.0	Wolfcamp B-2, Original	5.0	10	
15,397.0	15,399.0	Wolfcamp B-2, Original	5.0	10	
15,457.0	15,459.0	Wolfcamp B-2, Original	5.0	10	

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
15,517.0	15,519.0	Wolfcamp B-2, Original	5.0	10	
15,577.0	15,579.0	Wolfcamp B-2, Original	5.0	10	
15,637.0	15,639.0	Wolfcamp B-2, Original	5.0	10	
15,697.0	15,699.0	Wolfcamp B-2, Original	5.0	10	
15,757.0	15,759.0	Wolfcamp B-2, Original	5.0	10	
15,817.0	15,819.0	Wolfcamp B-2, Original	5.0	10	
15,877.0	15,879.0	Wolfcamp B-2, Original	5.0	10	
15,937.0	15,939.0	Wolfcamp B-2, Original	5.0	10	
15,997.0	15,999.0	Wolfcamp B-2, Original	5.0	10	
16,057.0	16,059.0	Wolfcamp B-2, Original	5.0	10	
16,117.0	16,119.0	Wolfcamp B-2, Original	5.0	10	
16,177.0	16,179.0	Wolfcamp B-2, Original	5.0	10	
16,237.0	16,239.0	Wolfcamp B-2, Original	5.0	10	
16,297.0	16,299.0	Wolfcamp B-2, Original	5.0	10	
16,357.0	16,359.0	Wolfcamp B-2, Original	5.0	10	
16,417.0	16,419.0	Wolfcamp B-2, Original	5.0	10	
16,477.0	16,479.0	Wolfcamp B-2, Original	5.0	10	
16,537.0	16,539.0	Wolfcamp B-2, Original	5.0	10	
16,597.0	16,599.0	Wolfcamp B-2, Original	5.0	10	
16,657.0	16,659.0	Wolfcamp B-2, Original	5.0	10	
16,717.0	16,719.0	Wolfcamp B-2, Original	5.0	10	
16,777.0	16,779.0	Wolfcamp B-2, Original	5.0	10	
16,837.0	16,839.0	Wolfcamp B-2, Original	5.0	10	
16,897.0	16,899.0	Wolfcamp B-2, Original	5.0	10	
16,957.0	16,959.0	Wolfcamp B-2, Original	5.0	10	
17,017.0	17,019.0	Wolfcamp B-2, Original	5.0	10	
17,077.0	17,079.0	Wolfcamp B-2, Original	5.0	10	
17,137.0	17,139.0	Wolfcamp B-2, Original	5.0	10	
17,197.0	17,199.0	Wolfcamp B-2, Original	5.0	10	
17,257.0	17,259.0	Wolfcamp B-2, Original	5.0	10	
17,317.0	17,319.0	Wolfcamp B-2, Original	5.0	10	
17,377.0	17,379.0	Wolfcamp B-2, Original	5.0	10	
17,437.0	17,439.0	Wolfcamp B-2, Original	5.0	10	
17,497.0	17,499.0	Wolfcamp B-2, Original	5.0	10	
17,557.0	17,559.0	Wolfcamp B-2, Original	5.0	10	
17,617.0	17,619.0	Wolfcamp B-2, Original	5.0	10	
17,677.0	17,679.0	Wolfcamp B-2, Original	5.0	10	
17,737.0	17,739.0	Wolfcamp B-2, Original	5.0	10	
17,797.0	17,799.0	Wolfcamp B-2, Original	5.0	10	
17,857.0	17,859.0	Wolfcamp B-2, Original	5.0	10	
17,917.0	17,919.0	Wolfcamp B-2, Original	5.0	10	
17,977.0	17,979.0	Wolfcamp B-2, Original	5.0	10	
18,037.0	18,039.0	Wolfcamp B-2, Original	5.0	10	
18,097.0	18,099.0	Wolfcamp B-2, Original	5.0	10	
18,157.0	18,159.0	Wolfcamp B-2, Original	5.0	10	
18,217.0	18,219.0	Wolfcamp B-2, Original	5.0	10	
18,277.0	18,279.0	Wolfcamp B-2, Original	5.0	10	
18,337.0	18,339.0	Wolfcamp B-2, Original	5.0	10	
18,397.0	18,399.0	Wolfcamp B-2, Original	5.0	10	
18,457.0	18,459.0	Wolfcamp B-2, Original	5.0	10	
18,517.0	18,519.0	Wolfcamp B-2, Original	5.0	10	
18,577.0	18,579.0	Wolfcamp B-2, Original	5.0	10	
18,637.0	18,639.0	Wolfcamp B-2, Original	5.0	10	
18,697.0	18,699.0	Wolfcamp B-2, Original	5.0	10	

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
18,757.0	18,759.0	Wolfcamp B-2, Original	5.0	10	
18,797.0	18,799.0	Wolfcamp B-2, Original	5.0	10	
18,926.0	18,946.0	Wolfcamp B-2, Original	0.0	0	

Completion (FRAC) Details

FRAC on 7/28/2015 00:05

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/28/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	18,637.0	18,799.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,634.00
Slickwater	9,634.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	240,464.0	lb	40/70	1.50

FRAC on 7/28/2015 11:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/28/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	18,399.0	18,579.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,642.00
Slickwater	9,642.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	42,143.0	lb	40/70	1.00
Brown Sand	Bulk Sand	43,490.0		40/70	1.00
Brown Sand	Bulk Sand	155,466.0		40/70	2.00

FRAC on 7/29/2015 01:45

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/29/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	18,157.0	18,339.0

GEL

Fluid Name	Total Clean Volume (bbl)
	8,986.00
7.5% HCl	8,986.00
Slickwater	8,986.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	239,892.0	lb	40/70	

FRAC on 7/29/2015 20:08

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/29/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	17,917.0	18,099.0

GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	9,505.00
Slickwater	9,505.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	44,146.0	lb	40/70	1.00
Brown Sand	Bulk Sand	42,095.0	lb	40/70	1.00
Brown Sand	Bulk Sand	154,132.0	lb	40/70	2.00

FRAC on 7/30/2015 02:44

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/30/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	17,677.0	17,859.0

GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	8,725.00
Slickwater	8,725.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	42,346.0	lb	40/70	1.00
Brown Sand	Bulk Sand	43,983.0	lb	40/70	1.00
Brown Sand	Bulk Sand	161,519.0	gal	40/70	2.00

FRAC on 7/31/2015 15:15

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/31/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	17,437.0	17,619.0

GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	9,614.00
Slickwater	9,614.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	43,249.0	lb	40/70	1.00
Brown Sand	Bulk Sand	43,939.0	lb	40/70	1.00
Brown Sand	Bulk Sand	154,997.0	lb	40/70	2.00

FRAC on 7/31/2015 23:13

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/31/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	17,197.0	17,379.0

GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	9,243.00
Slickwater	9,243.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	43,708.0	lb	40/70	1.00
Brown Sand	Bulk Sand	42,312.0	lb	40/70	1.00
Brown Sand	Bulk Sand	154,557.0	lb	40/70	2.00

FRAC on 8/1/2015 06:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/1/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	16,957.0	17,139.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,314.00
Slickwater	9,314.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	243,532.0	lb	40/70	2.00

FRAC on 8/1/2015 13:15

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/1/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	16,717.0	16,899.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,298.00
Slickwater	9,298.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	2.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	241,966.0		40/70	2.00

FRAC on 8/1/2015 20:42

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/1/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	16,477.0	16,659.0

GEL

Fluid Name	Total Clean Volume (bbl)
15% HCl	9,155.00
Slickwater	9,155.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	241,536.0	lb	40/70	2.00

FRAC on 8/2/2015 03:25

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/2/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	16,237.0	16,419.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,238.00
Slickwater	9,238.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	240,613.0	lb	40/70	

FRAC on 8/2/2015 19:45

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/2/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	15,997.0	16,179.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	10,526.00
Slickwater	10,526.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	241,062.0	lb	40/70	2.00

FRAC on 8/4/2015 19:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/4/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	15,757.0	15,939.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	10,240.00
Slickwater	10,240.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	40/70	
Brown Sand	Bulk Sand	240,862.0	lb	40/70	2.00

FRAC on 8/4/2015 22:45

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/4/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	15,517.0	15,699.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,526.00
Slickwater	9,526.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	240,140.0	lb	30/50	2.00

FRAC on 8/5/2015 05:07

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/5/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	15,277.0	15,459.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5 HCl	9,031.00
Slickwater	9,031.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	

FRAC on 8/5/2015 15:08

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/5/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	15,037.0	15,219.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,658.00
Slickwater	8,658.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	241,119.0	lb	30/50	2.00

FRAC on 8/5/2015 22:26

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/5/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	14,797.0	14,979.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	9,154.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	240,604.0	lb	30/50	2.00

FRAC on 8/6/2015 04:49

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/6/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	14,557.0	14,739.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,955.00
Slickwater	8,955.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	240,271.0	lb	30/50	2.00

FRAC on 8/6/2015 12:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/6/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	14,317.0	14,499.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,889.00
Slickwater	8,889.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	241,334.0	lb	30/50	2.00

FRAC on 8/6/2015 18:52

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/6/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	14,077.0	14,259.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,794.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	227,975.0	lb	30/50	2.00

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Completion (FRAC) Details

FRAC on 8/7/2015 02:23

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/7/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	13,837.0	14,014.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,976.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	240,194.0	lb	30/50	2.00

FRAC on 8/7/2015 11:28

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/7/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	13,597.0	13,779.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,895.00
Slickwater	8,895.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	237,876.0	lb	30/50	2.00

FRAC on 8/7/2015 17:24

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/7/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	13,357.0	13,539.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	6,669.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	87,635.0	lb	30/50	1.00

FRAC on 8/7/2015 21:52

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/7/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	13,120.0	13,296.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	10,372.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	318,204.0	lb	30/50	2.00

FRAC on 8/8/2015 04:37

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/8/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	12,877.0	13,059.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,830.00
Slickwater	8,830.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	238,485.0	lb	30/50	2.00

FRAC on 8/8/2015 15:19

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/8/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	12,637.0	12,819.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,337.00
Slickwater	9,337.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	240,616.0	lb	30/50	2.00

FRAC on 8/8/2015 22:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/8/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	12,397.0	12,579.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,653.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	240,873.0	lb	30/50	2.00

FRAC on 8/9/2015 03:50

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/9/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	12,157.0	12,339.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,145.00
Slickwater	9,145.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	240,988.0	lb	30/50	2.00

FRAC on 8/9/2015 14:05

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/9/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	11,917.0	12,095.0

GEL

Fluid Name	Total Clean Volume (bbl)
5% HCl	7,654.00
Slickwater	7,654.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	148,000.0	lb	30/50	1.00

FRAC on 8/9/2015 20:56

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/9/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	11,677.0	11,859.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,427.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	178,893.0	lb	30/50	1.00

FRAC on 8/10/2015 08:07

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/10/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	11,437.0	11,619.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,509.00
Slickwater	9,509.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	276,078.0	lb	30/50	2.00

FRAC on 8/10/2015 23:43

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/10/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	11,197.0	11,379.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	10,564.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	287,241.0	lb	30/50	2.00

FRAC on 8/11/2015 06:53

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/11/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	10,957.0	11,137.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	10,283.00
Slickwater	10,283.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	258,696.0	lb	30/50	2.00

FRAC on 8/11/2015 15:34

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/11/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	10,717.0	10,899.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,395.00
Slickwater	9,395.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	276,514.0	lb	30/50	2.00

FRAC on 8/11/2015 20:04

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/11/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	10,477.0	10,659.0

GEL

Fluid Name	Total Clean Volume (bbl)
Slickwater	9,373.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	255,599.0	lb	30/50	2.00

FRAC on 8/12/2015 04:30

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/12/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	10,237.0	10,419.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,766.00
Slickwater	8,766.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	240,283.0	lb	30/50	

FRAC on 8/12/2015 12:25

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/12/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	9,997.0	10,179.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,585.00
Slickwater	8,585.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	240,456.0	lb	30/50	2.00

FRAC on 8/12/2015 19:57

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/12/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	9,757.0	9,939.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,691.00
Slickwater	8,691.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	239,780.0	lb	30/50	2.00

FRAC on 8/13/2015 02:03

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/13/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	9,517.0	9,699.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,681.00
Slickwater	8,681.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	240,625.0	lb	30/50	2.00

FRAC on 8/13/2015 09:08

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/13/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	9,277.0	9,459.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,553.00
Slickwater	8,553.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	240,398.0	lb	30/50	2.00

FRAC on 8/13/2015 15:10

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/13/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	9,037.0	9,219.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,518.00
Slickwater	8,518.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	241,189.0	lb	30/50	2.00

FRAC on 8/13/2015 21:17

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/13/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	8,797.0	8,979.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,580.00
Slickwater	8,580.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand		lb	30/50	
Brown Sand	Bulk Sand	43,500.0	lb	40/70	1.00
Brown Sand	Bulk Sand	43,500.0	lb	40/70	1.00
Brown Sand	Bulk Sand	152,781.0	lb	40/70	2.00

FRAC on 8/14/2015 06:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
8/14/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	8,557.0	8,739.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,280.00
Slickwater	9,280.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration…
Brown Sand	Bulk Sand	273,941.0	lb	30/50	2.00

Zones

Zone Name	Top (ftKB)
Wolfcamp B-2	

Tubing Details

Tubing Description	Set Depth (ftKB)	Run Date
Tubing - Production	8,380.9	8/25/2015

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Tubing	2 3/8	4.00	L-80	32.67	1	25.6	58.2
Tubing Pup Joint	2 3/8	4.00	L-80	2.00	1	58.2	60.2
Tubing	2 3/8	4.00	L-80	1,902.04	59	60.2	1,962.3
Gas Lift Valve #13	2 3/8	4.00	L-80	4.10	1	1,962.3	1,966.4
Tubing	2 3/8	4.00	L-80	491.94	15	1,966.4	2,458.3
Gas Lift Valve #12	2 3/8	4.00	L-80	4.10	1	2,458.3	2,462.4
Tubing	2 3/8	4.00	L-80	525.02	16	2,462.4	2,987.4

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Gas Lift Valve #11	2 3/8	4.00	L-80	4.10	1	2,987.4	2,991.5
Tubing	2 3/8	4.00	L-80	488.69	15	2,991.5	3,480.2
Gas Lift Valve #10	2 3/8	4.00	L-80	4.10	1	3,480.2	3,484.3
Tubing	2 3/8	4.00	L-80	490.57	15	3,484.3	3,974.9
Gas Lift Valve #9	2 3/8	4.00	L-80	4.10	1	3,974.9	3,979.0
Tubing	2 3/8	4.00	L-80	524.85	16	3,979.0	4,503.8
Gas Lift Valve #8	2 3/8	4.00	L-80	4.10	1	4,503.8	4,507.9
Tubing	2 3/8	4.00	L-80	490.54	15	4,507.9	4,998.5
Gas Lift Valve #7	2 3/8	4.00	L-80	4.10	1	4,998.5	5,002.6
Tubing	2 3/8	4.00	L-80	490.30	15	5,002.6	5,492.9
Gas Lift Valve #6	2 3/8	4.00	L-80	4.10	1	5,492.9	5,497.0
Tubing	2 3/8	4.00	L-80	556.93	17	5,497.0	6,053.9
Gas Lift Valve #5	2 3/8	4.00	L-80	4.10	1	6,053.9	6,058.0
Tubing	2 3/8	4.00	L-80	558.25	17	6,058.0	6,616.3
Gas Lift Valve #4	2 3/8	4.00	L-80	4.10	1	6,616.3	6,620.4
Tubing	2 3/8	4.00	L-80	556.01	17	6,620.4	7,176.4
Gas Lift Valve #3	2 3/8	4.00	L-80	4.10	1	7,176.4	7,180.5
Tubing	2 3/8	4.00	L-80	552.93	17	7,180.5	7,733.4
Gas Lift Valve #2	2 3/8	4.00	L-80	4.10	1	7,733.4	7,737.5
Tubing	2 3/8	4.00	L-80	555.64	17	7,737.5	8,293.1
Profile Nipple X	2 3/8	4.00	L-80	0.85	1	8,293.1	8,294.0
Tubing	2 3/8	4.00	L-80	32.60	1	8,294.0	8,326.6
Gas Lift Valve #1	2 3/8	4.00	L-80	4.10	1	8,326.6	8,330.7
GOPC	4.17		L-80	7.33	1	8,330.7	8,338.0
Tubing	2 3/8	4.00	L-80	33.12	1	8,338.0	8,371.1
On-Off Tool	2 3/8			1.50	1	8,371.1	8,372.6
Packer	2 3/8			7.80	1	8,372.6	8,380.4
POP	2 3/8		L-80	0.45	1	8,380.4	8,380.9
	2 3/8					8,380.9	8,380.9

Rod Strings

Rod Description	Set Depth (ftKB)	Run Date

Rod Components

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

Other In Hole

Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug/ CFP over Sleve	18,811.0	18,813.0	4.778	7/27/2015		Production, 18,980.3ftKB	Original
Composite Plug	18,600.0	18,602.0	4.778	7/28/2015		Production, 18,980.3ftKB	Original
Composite Plug	18,354.0	18,356.0	4.778	7/28/2015		Production, 18,980.3ftKB	Original
Composite Plug	18,114.0	18,116.0	4.778	7/29/2015		Production, 18,980.3ftKB	Original
Composite Plug	17,874.0	17,876.0	4.778	7/30/2015		Production, 18,980.3ftKB	Original
Composite Plug	17,634.0	17,636.0	4.778	7/30/2015		Production, 18,980.3ftKB	Original
Composite Plug	17,394.0	17,396.0	4.778	7/31/2015		Production, 18,980.3ftKB	Original
Composite Plug	17,154.0	17,156.0	4.778	8/1/2015		Production, 18,980.3ftKB	Original
Composite Plug	16,914.0	16,916.0	4.778	8/1/2015		Production, 18,980.3ftKB	Original
Composite Plug	16,674.0	16,676.0	4.778	8/1/2015		Production, 18,980.3ftKB	Original

Other In Hole

Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug	16,434.0	16,436.0	4.778	8/2/2015		Production, 18,980.3ftKB	Original
Composite Plug	16,194.0	16,196.0	4.778	8/2/2015		Production, 18,980.3ftKB	Original
Composite Plug	15,954.0	15,956.0	4.778	8/2/2015		Production, 18,980.3ftKB	Original
Composite Plug	15,714.0	15,716.0	4.778	8/4/2015		Production, 18,980.3ftKB	Original
Composite Plug	15,474.0	15,476.0	4.778	8/5/2015		Production, 18,980.3ftKB	Original
Composite Plug	15,234.0	15,236.0	4.778	8/5/2015		Production, 18,980.3ftKB	Original
Composite Plug	14,994.0	14,996.0	4.778	8/5/2015		Production, 18,980.3ftKB	Original
Composite Plug	14,754.0	14,756.0	4.778	8/6/2015		Production, 18,980.3ftKB	Original
Composite Plug	14,514.0	14,516.0	4.778	8/6/2015		Production, 18,980.3ftKB	Original
Composite Plug	14,286.0	14,288.0	4.778	8/6/2015	Moved +12' due to collar	Production, 18,980.3ftKB	Original
Composite Plug	14,034.0	14,036.0	4.778	8/6/2015		Production, 18,980.3ftKB	Original
Composite Plug	13,794.0	13,796.0	4.778	8/7/2015		Production, 18,980.3ftKB	Original
Composite Plug	13,554.0	13,556.0	4.778	8/7/2015		Production, 18,980.3ftKB	Original
Composite Plug	13,314.0	13,316.0	4.778	8/7/2015	Did not set per engineer	Production, 18,980.3ftKB	Original
Composite Plug	13,074.0	13,076.0	4.778	8/8/2015		Production, 18,980.3ftKB	Original
Composite Plug	12,834.0	12,836.0	4.778	8/8/2015		Production, 18,980.3ftKB	Original
Composite Plug	12,594.0	12,596.0	4.778	8/8/2015		Production, 18,980.3ftKB	Original
Composite Plug	12,354.0	12,356.0	4.778	8/9/2015		Production, 18,980.3ftKB	Original
Composite Plug	12,110.0	12,112.0	4.778	8/9/2015	Moved -4' due to collar	Production, 18,980.3ftKB	Original
Composite Plug	11,874.0	11,876.0	4.778	8/9/2015		Production, 18,980.3ftKB	Original
Composite Plug	11,634.0	11,636.0	4.778	8/9/2015		Production, 18,980.3ftKB	Original
Composite Plug	11,394.0	11,396.0	4.778	8/10/2015		Production, 18,980.3ftKB	Original
Composite Plug	11,150.0	11,152.0	4.778	8/11/2015		Production, 18,980.3ftKB	Original
Composite Plug	10,925.0	10,927.0	4.778	8/11/2015	Moved -11' due to collar	Production, 18,980.3ftKB	Original
Composite Plug	10,674.0	10,676.0	4.778	8/11/2015		Production, 18,980.3ftKB	Original
Composite Plug	10,434.0	10,436.0	4.778	8/11/2015		Production, 18,980.3ftKB	Original
Composite Plug	10,194.0	10,196.0	4.778	8/12/2015		Production, 18,980.3ftKB	Original
Composite Plug	9,954.0	9,956.0	4.778	8/12/2015		Production, 18,980.3ftKB	Original
Composite Plug	9,714.0	9,716.0	4.778	8/12/2015		Production, 18,980.3ftKB	Original
Composite Plug	9,474.0	9,476.0	4.778	8/13/2015		Production, 18,980.3ftKB	Original

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Other In Hole

Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug	9,234.0	9,236.0	4.778	8/13/2015		Production, 18,980.3ftKB	Original
Composite Plug	8,994.0	8,996.0	4.778	8/13/2015		Production, 18,980.3ftKB	Original
Composite Plug	8,754.0	8,756.0	4.778	8/14/2015		Production, 18,980.3ftKB	Original

Well Tests

Description	Volume Oil Total (bbl)	Volume Gas Total (MCF)	Volume Water Total (bbl)

Start Date	End Date	Sz Dia Choke (in)	P Tub End (psi)	P Cas End (psi)	Com	Vol Oil Tot (bbl)	Vol Gas Tot (MCF)	Vol Water Tot (bbl)

Directional Survey

Date: 5/17/2015 — Description: MAIN HOLE SURVEY

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
	0.00	0.00	0.00	0.00	0.00	
5/17/2015	100.00	0.94	280.74	100.00	0.82	VES
5/17/2015	200.00	0.88	315.50	199.98	2.34	VES
5/17/2015	300.00	0.78	326.52	299.97	3.78	VES
5/17/2015	400.00	0.75	324.32	399.96	5.11	VES
5/17/2015	500.00	0.58	23.46	499.96	6.12	VES
5/17/2015	612.00	0.45	354.27	611.95	7.10	VES
5/19/2015	720.00	0.53	0.73	719.95	8.02	Leam
5/19/2015	811.00	0.18	51.18	810.95	8.55	Leam
5/19/2015	903.00	0.35	337.17	902.95	8.90	Leam
5/19/2015	997.00	1.49	84.75	996.94	10.06	Leam
5/19/2015	1,091.00	2.64	89.50	1,090.87	13.45	Leam
5/19/2015	1,186.00	3.96	99.52	1,185.72	18.90	Leam
5/19/2015	1,280.00	4.04	100.39	1,279.49	25.45	Leam
5/19/2015	1,374.00	3.61	102.33	1,373.28	31.72	Leam
5/19/2015	1,469.00	3.96	101.10	1,468.07	37.99	Leam
5/19/2015	1,563.00	4.04	105.32	1,561.84	44.55	Leam
5/19/2015	1,657.00	3.87	107.78	1,655.62	51.03	Leam
5/19/2015	1,751.00	3.25	100.04	1,749.44	56.85	Leam
5/19/2015	1,846.00	2.99	89.32	1,844.30	62.00	Leam
5/19/2015	1,940.00	2.11	74.03	1,938.20	66.15	Leam
5/19/2015	2,034.00	1.41	72.09	2,032.16	69.03	Leam
5/19/2015	2,128.00	0.70	104.61	2,126.14	70.70	Leam
5/19/2015	2,223.00	0.70	123.25	2,221.14	71.85	Leam
5/19/2015	2,317.00	0.35	359.85	2,315.13	72.33	Leam
5/19/2015	2,411.00	0.35	48.01	2,409.13	72.85	Leam
5/19/2015	2,505.00	0.26	353.17	2,503.13	73.30	Leam
5/19/2015	2,600.00	0.09	14.79	2,598.13	73.58	Leam
5/19/2015	2,694.00	0.44	62.60	2,692.13	74.00	Leam
5/20/2015	2,788.00	0.35	343.32	2,786.13	74.50	Leam
5/20/2015	2,882.00	0.62	13.38	2,880.12	75.27	Leam
5/20/2015	2,977.00	0.70	326.80	2,975.12	76.27	Leam
5/20/2015	3,071.00	1.06	327.86	3,069.11	77.72	Leam
5/20/2015	3,165.00	0.62	267.91	3,163.10	78.93	Leam
5/20/2015	3,259.00	0.62	252.09	3,257.09	79.93	Leam
5/20/2015	3,354.00	0.44	250.51	3,352.09	80.81	Leam
5/20/2015	3,448.00	0.26	213.25	3,446.09	81.36	Leam
5/20/2015	3,542.00	0.26	183.36	3,540.09	81.77	Leam
5/20/2015	3,636.00	0.53	234.52	3,634.08	82.36	Leam
5/20/2015	3,731.00	0.18	88.62	3,729.08	82.69	Leam
5/20/2015	3,825.00	0.26	35.88	3,823.08	83.01	Leam

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
5/20/2015	3,919.00	0.62	88.27	3,917.08	83.67	Leam
5/20/2015	4,013.00	0.62	85.45	4,011.07	84.69	Leam
5/20/2015	4,107.00	0.70	92.48	4,105.07	85.77	Leam
5/20/2015	4,201.00	1.06	107.25	4,199.06	87.20	Leam
5/20/2015	4,295.00	0.35	71.57	4,293.05	88.32	Leam
5/20/2015	4,390.00	0.00	1.96	4,388.05	88.61	Leam
5/21/2015	4,484.00	0.18	172.29	4,482.05	88.76	Leam
5/21/2015	4,578.00	0.44	122.19	4,576.05	89.23	Leam
5/21/2015	4,672.00	0.44	102.33	4,670.04	89.94	Leam
5/21/2015	4,767.00	0.35	106.55	4,765.04	90.59	Leam
5/21/2015	4,861.00	0.26	80.53	4,859.04	91.08	Leam
5/21/2015	4,955.00	0.44	104.79	4,953.04	91.64	Leam
5/21/2015	5,049.00	0.53	101.27	5,047.04	92.44	Leam
6/15/2015	5,144.00	0.53	100.39	5,142.03	93.32	Leam
6/15/2015	5,195.00	0.44	104.44	5,193.03	93.75	Leam
6/15/2015	5,289.00	0.88	97.58	5,287.02	94.83	Leam
6/15/2015	5,384.00	2.99	42.56	5,381.97	97.79	Leam
6/15/2015	5,478.00	4.92	46.43	5,475.74	104.27	Leam
6/15/2015	5,572.00	6.60	46.43	5,569.26	113.70	Leam
6/15/2015	5,667.00	5.89	54.69	5,663.70	124.01	Leam
6/15/2015	5,761.00	6.86	53.28	5,757.12	134.44	Leam
6/15/2015	5,855.00	8.62	51.53	5,850.26	147.10	Leam
6/16/2015	5,949.00	10.73	45.73	5,942.92	162.88	Leam
6/16/2015	6,043.00	10.20	45.37	6,035.35	179.95	Leam
6/16/2015	6,138.00	11.43	49.77	6,128.67	197.76	Leam
6/16/2015	6,232.00	8.88	45.73	6,221.19	214.33	Leam
6/16/2015	6,326.00	11.17	50.65	6,313.75	230.67	Leam
6/16/2015	6,421.00	11.78	48.01	6,406.85	249.57	Leam
6/16/2015	6,515.00	12.31	52.41	6,498.78	269.17	Leam
6/16/2015	6,609.00	11.96	57.86	6,590.68	288.91	Leam
6/16/2015	6,703.00	12.13	63.66	6,682.62	308.50	Leam
6/16/2015	6,798.00	12.40	60.49	6,775.45	328.67	Leam
6/16/2015	6,892.00	12.13	53.64	6,867.31	348.61	Leam
6/16/2015	6,986.00	12.13	51.35	6,959.21	368.36	Leam
6/16/2015	7,080.00	11.96	50.12	7,051.14	387.97	Leam
6/16/2015	7,175.00	11.61	54.69	7,144.14	407.36	Leam
6/16/2015	7,269.00	11.52	61.19	7,236.24	426.18	Leam
6/16/2015	7,364.00	13.63	67.17	7,328.96	446.83	Leam
6/16/2015	7,458.00	11.87	80.71	7,420.66	467.44	Leam
6/16/2015	7,552.00	11.78	102.15	7,512.71	486.37	Leam
6/17/2015	7,647.00	11.34	121.31	7,605.81	505.15	Leam
6/17/2015	7,741.00	11.78	135.55	7,697.93	523.85	Leam
6/17/2015	7,835.00	12.40	152.78	7,789.87	543.32	Leam
6/17/2015	7,929.00	13.72	169.12	7,881.47	564.35	Leam
6/17/2015	8,024.00	11.96	169.65	7,974.09	585.46	Leam
6/17/2015	8,118.00	16.97	180.73	8,065.10	608.83	Leam
6/17/2015	8,213.00	20.58	192.50	8,155.06	639.25	Leam
6/18/2015	8,292.00	25.68	193.38	8,227.69	670.28	Leam
6/18/2015	8,324.00	29.90	193.38	8,255.99	685.19	Leam
6/18/2015	8,356.00	34.29	192.33	8,283.09	702.19	Leam
6/18/2015	8,387.00	37.37	188.81	8,308.23	720.33	Leam
6/18/2015	8,419.00	40.10	184.59	8,333.19	740.34	Leam
6/18/2015	8,450.00	43.09	182.31	8,356.37	760.91	Leam
6/18/2015	8,481.00	46.78	181.43	8,378.31	782.80	Leam
6/18/2015	8,513.00	51.27	180.02	8,399.29	806.96	Leam
6/19/2015	8,544.00	56.19	178.44	8,417.63	831.94	Leam

PIONEER
NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
6/19/2015	8,576.00	60.06	177.91	8,434.52	859.11	Leam
6/19/2015	8,607.00	64.10	178.62	8,449.03	886.50	Leam
6/19/2015	8,639.00	68.59	179.67	8,461.87	915.80	Leam
6/19/2015	8,670.00	72.63	180.20	8,472.16	945.04	Leam
6/19/2015	8,702.00	77.29	179.14	8,480.46	975.93	Leam
6/19/2015	8,733.00	80.55	177.91	8,486.42	1,006.35	Leam
6/19/2015	8,765.00	85.30	177.56	8,490.36	1,038.09	Leam
6/19/2015	8,796.00	87.76	178.09	8,492.23	1,069.04	Leam
6/19/2015	8,890.00	90.13	177.56	8,493.97	1,163.01	Leam
6/19/2015	8,985.00	90.22	178.09	8,493.67	1,258.01	Leam
6/20/2015	9,093.00	89.87	177.21	8,493.59	1,366.01	Leam
6/20/2015	9,187.00	89.78	175.63	8,493.88	1,460.01	Leam
6/20/2015	9,282.00	89.87	176.16	8,494.17	1,555.01	Leam
6/20/2015	9,376.00	90.31	176.51	8,494.02	1,649.01	Leam
6/20/2015	9,470.00	90.92	177.74	8,493.01	1,743.00	Leam
6/20/2015	9,564.00	92.07	179.85	8,490.56	1,836.96	Leam
6/20/2015	9,659.00	93.03	182.31	8,486.33	1,931.86	Leam
6/20/2015	9,753.00	93.03	184.77	8,481.36	2,025.72	Leam
6/20/2015	9,847.00	90.92	185.30	8,478.12	2,119.66	Leam
6/20/2015	9,942.00	89.16	185.65	8,478.06	2,214.65	Leam
6/20/2015	10,036.00	89.25	185.47	8,479.36	2,308.64	Leam
6/20/2015	10,130.00	88.99	183.89	8,480.80	2,402.63	Leam
6/20/2015	10,224.00	89.16	182.48	8,482.32	2,496.61	Leam
6/21/2015	10,319.00	89.43	182.31	8,483.49	2,591.61	Leam
6/21/2015	10,413.00	90.48	185.30	8,483.56	2,685.60	Leam
6/21/2015	10,507.00	90.04	183.89	8,483.14	2,779.59	Leam
6/21/2015	10,601.00	90.04	184.24	8,483.07	2,873.59	Leam
6/21/2015	10,696.00	88.99	181.78	8,483.88	2,968.58	Leam
6/21/2015	10,790.00	88.90	180.73	8,485.61	3,062.56	Leam
6/21/2015	10,884.00	89.16	179.85	8,487.20	3,156.55	Leam
6/21/2015	10,978.00	89.25	180.02	8,488.50	3,250.54	Leam
6/21/2015	11,073.00	89.43	182.48	8,489.60	3,345.53	Leam
6/21/2015	11,167.00	89.16	183.19	8,490.75	3,439.52	Leam
6/21/2015	11,261.00	90.48	182.84	8,491.05	3,533.51	Leam
6/21/2015	11,356.00	91.19	184.59	8,489.66	3,628.50	Leam
6/21/2015	11,450.00	90.57	182.13	8,488.22	3,722.48	Leam
6/21/2015	11,545.00	90.31	181.78	8,487.49	3,817.48	Leam
6/21/2015	11,639.00	91.10	183.19	8,486.33	3,911.47	Leam
6/21/2015	11,733.00	90.48	181.08	8,485.04	4,005.45	Leam
6/21/2015	11,827.00	90.04	179.67	8,484.61	4,099.45	Leam
6/21/2015	11,921.00	90.92	180.55	8,483.82	4,193.45	Leam
6/21/2015	12,016.00	90.75	179.85	8,482.44	4,288.43	Leam
6/21/2015	12,110.00	89.08	177.56	8,482.58	4,382.42	Leam
6/21/2015	12,204.00	90.84	175.63	8,482.64	4,476.42	Leam
6/21/2015	12,299.00	91.19	174.22			Leam
6/21/2015	12,393.00	92.15	178.44	8,477.71	4,665.33	Leam
6/22/2015	12,487.00	91.28	180.20	8,474.90	4,759.28	Leam
6/22/2015	12,581.00	89.96	180.20	8,473.88	4,853.27	Leam
6/22/2015	12,676.00	90.13	184.07	8,473.81	4,948.26	Leam
6/22/2015	12,770.00	89.78	184.59	8,473.88	5,042.26	Leam
6/22/2015	12,864.00	87.49	183.19	8,476.12	5,136.22	Leam
6/22/2015	12,959.00	89.16	182.84	8,478.90	5,231.18	Leam
6/22/2015	13,053.00	88.90	178.44	8,480.49	5,325.14	Leam
6/22/2015	13,147.00	88.99	175.10	8,482.22	5,419.11	Leam
6/22/2015	13,241.00	89.16	174.93	8,483.74	5,513.10	Leam
6/22/2015	13,336.00	92.77	177.91	8,482.14	5,608.06	Leam

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NATURAL RESOURCES

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
6/22/2015	13,430.00	94.26	180.02	8,476.37	5,701.87	Leam
6/22/2015	13,524.00	92.68	182.48	8,470.68	5,795.69	Leam
6/22/2015	13,618.00	90.22	184.24	8,468.31	5,889.65	Leam
6/22/2015	13,713.00	88.11	180.20	8,469.69	5,984.62	Leam
6/22/2015	13,807.00	88.37	179.14	8,472.58	6,078.57	Leam
6/22/2015	13,901.00	88.29	179.50	8,475.32	6,172.53	Leam
6/22/2015	13,996.00	88.46	179.50	8,478.01	6,267.49	Leam
6/22/2015	14,090.00	88.11	180.55	8,480.82	6,361.45	Leam
6/22/2015	14,184.00	88.37	180.73	8,483.71	6,455.40	Leam
6/22/2015	14,279.00	88.20	179.67	8,486.55	6,550.36	Leam
6/22/2015	14,373.00	87.58	181.96	8,490.02	6,644.29	Leam
6/23/2015	14,467.00	86.00	184.59	8,495.28	6,738.13	Leam
6/23/2015	14,562.00	87.23	184.94	8,500.89	6,832.96	Leam
6/23/2015	14,656.00	89.87	183.19	8,503.27	6,926.92	Leam
6/23/2015	14,751.00	90.13	183.54	8,503.27	7,021.92	Leam
6/23/2015	14,846.00	90.13	183.36	8,503.05	7,116.92	Leam
6/23/2015	14,941.00	90.13	182.84	8,502.84	7,211.92	Leam
6/23/2015	15,035.00	89.96	180.55	8,502.76	7,305.91	Leam
6/23/2015	15,129.00	90.13	178.79	8,502.69	7,399.91	Leam
6/23/2015	15,223.00	90.04	178.79	8,502.55	7,493.91	Leam
6/24/2015	15,317.00	89.25	181.43	8,503.13	7,587.90	Leam
6/24/2015	15,412.00	90.31	185.12	8,503.50	7,682.88	Leam
6/24/2015	15,506.00	87.93	182.13	8,504.94	7,776.85	Leam
6/24/2015	15,600.00	87.76	180.55	8,508.48	7,870.78	Leam
6/24/2015	15,695.00	90.22	180.02	8,510.15	7,965.76	Leam
6/24/2015	15,789.00	90.92	178.97	8,509.22	8,059.75	Leam
6/24/2015	15,883.00	91.10	178.62	8,507.56	8,153.74	Leam
6/24/2015	15,977.00	93.21	182.31	8,504.02	8,247.65	Leam
6/24/2015	16,072.00	94.18	183.54	8,497.90	8,342.45	Leam
6/24/2015	16,166.00	92.77	185.82	8,492.20	8,436.27	Leam
6/24/2015	16,260.00	90.40	187.58	8,489.60	8,530.22	Leam
6/24/2015	16,354.00	89.25	188.99	8,489.89	8,624.22	Leam
6/24/2015	16,448.00	87.93	189.34	8,492.20	8,718.19	Leam
6/24/2015	16,542.00	84.77	186.00	8,498.19	8,811.97	Leam
6/24/2015	16,636.00	83.89	184.77	8,507.47	8,905.51	Leam
6/24/2015	16,731.00	86.00	181.78	8,515.85	9,000.12	Leam
6/24/2015	16,825.00	86.79	177.56	8,521.76	9,093.91	Leam
6/24/2015	16,919.00	89.25	173.17	8,525.01	9,187.83	Leam
6/25/2015	17,013.00	91.54	169.12	8,524.36	9,281.80	Leam
6/27/2015	17,039.00	92.24	168.25	8,523.50	9,307.78	Leam
6/27/2015	17,133.00	95.32	171.76	8,517.30	9,401.55	Leam
6/28/2015	17,227.00	92.86	178.27	8,510.59	9,495.26	Leam
6/28/2015	17,322.00	93.03	181.25	8,505.71	9,590.12	Leam
6/28/2015	17,417.00	89.78	183.54	8,503.38	9,685.07	Leam
6/28/2015	17,511.00	90.13	183.71	8,503.46	9,779.07	Leam
6/28/2015	17,605.00	88.81	183.01	8,504.33	9,873.07	Leam
6/28/2015	17,700.00	89.16	182.31	8,506.01	9,968.05	Leam
6/28/2015	17,794.00	89.08	181.43	8,507.45	10,062.04	Leam
6/28/2015	17,888.00	89.87	182.48	8,508.31	10,156.03	Leam
6/28/2015	17,982.00	90.22	181.78	8,508.24	10,250.03	Leam
6/28/2015	18,077.00	90.84	182.13	8,507.36	10,345.03	Leam
6/28/2015	18,171.00	91.98	182.13	8,505.05	10,439.00	Leam
6/28/2015	18,266.00	90.57	181.96	8,502.93	10,533.97	Leam
6/28/2015	18,360.00	90.75	180.90	8,501.85	10,627.96	Leam
6/28/2015	18,454.00	91.54	183.36	8,499.97	10,721.94	Leam
6/28/2015	18,548.00	89.78	183.01	8,498.89	10,815.93	Leam

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Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 65H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
6/28/2015	18,643.00	90.31	182.31	8,498.82	10,910.93	Leam
6/28/2015	18,737.00	90.57	181.08	8,498.09	11,004.92	Leam
6/28/2015	18,831.00	91.28	180.02	8,496.58	11,098.91	Leam
6/28/2015	18,926.00	91.45	179.50	8,494.31	11,193.88	Leam
6/28/2015	18,946.00	91.63	179.14	8,493.78	11,213.87	Leam
6/28/2015	18,995.00	91.63	179.14	8,492.38	11,262.85	Leam

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