

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

API/UWI 42-383-39266-0000	Property Sub 927351-064	Operator PIONEER NATURAL RESRC USA, INC	State TEXAS	County REAGAN
Field Name SPRABERRY (TREND AREA)		Surface Legal Location		
Spud Date 5/23/2015	TD Date 6/10/2015	Drilling Rig Release Date 6/14/2015	Frac Date 7/27/2015	On Production Date
Ground Elevation (ft) 2,647.00	Original KB Elevation (ft) 2,673.50	PBTD (All) (ftKB)	Total Depth (All) (ftKB) Original - 18,698.0	Total Depth All (TVD) (ftKB) Original - 8,479.2
Report #: 1 Daily Operation: 5/23/2015 06:00 - 5/24/2015 06:00				
Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217
Days From Spud (days) 1	Days on Location (days) 1	End Depth (ftKB) 625.0	End Depth (TVD) (ftKB) 625.0	Dens Last Mud (lb/gal) 8.50
Rig H & P, 606				
Operations Summary Finish Preparing Rig to Skid. Skid Rig to the University 2-20 64H. RU and Prepare to Spud. PU 17 1/2" Bit and BHA. Spud Well and Drill from 126' to 625'. Run Gyro Survey and TOO. HPJSM with Casing Crew and RU Casing Equipment.				
Remarks Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 0.5 Day From Spud, 1 Total Days On Well, 8.75 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)
SKID	PJSM w/ HP and PNR Rep. on skidding rig f/ Unv. 2-20 65H t/ Unv. 2-20 64H. Prepare rig for skid. Prep. air, mud and electric lines, scaffolding, skid rails and cylinders. Secure hydraulic hoses, BOP to sub, pipe wrangler. Skid rig. Rig is centered over the hole and level. Verified by Pioneer Rep, H&P Rig Manager and Driller. 1 Generator online			1.5
RU	EJSA with rig crew & PNR Representative discussing rigging up after skid. R/U stairs from rig floor to flow line skid. R/U high pressure mud lines & air lines. Install all ground rods & cables. Filling mud tanks w/ fresh water, Install mouse hole. Pressure test mud delivery line to 4,500 psi. OK Concurrently checked top-drive and ST-80 MU torque calibration. All torque readings reported to be within H&P specifications. Pre-spud walk around and inspection performed by H&P Rig Manager and PNR Co. Rep.			5.5
PU_BHA	PJSM w/ HP and PNR Rep. on handling BHA. Pick up and torque 17 1/2" stabilizer, bit sub, 17 1/2" Security SF65 PDC bit w/ 9x15 jets and XO sub			2.5
RU	Rig Oge's Oilfield Rentals cellar pumps into rigs flowline.			1
DRL	Rotate Drill 17 1/2" Surface Section 157' @ 31.4 fph, 90 spm, 350-550 gpm, 200-310 psi SPP, 30- 40 TDRPM, 5-25K WOB, 3-11K TQ. 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 up after stabilizer exited the conductor casing*** **Spud Well @ 16:30 hrs. 5/23/15.**			5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.			0.5
SRVY	Run Wireline Survey @ 283', Inc. .50° Azm. 279.1°.			0.5
DRL	Rotate Drill 17 1/2" Surface Section 342' @ 152 fph, 150-196 spm, 575-750 GPM, 375-750 psi SPP, 40-70 TDRPM, 28-30K WOB, 9-14K TQ. 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. Concurrently: HPJSM with VES, Rig Crew, and PNR Rep on RU and running GYRO Survey.			2.25
CIRC	Circulate and Condition Hole. Pumped 2-50 bbl Polymer Sweeps Surface to Surface. ***Minimal (<10%) increase in Cuttings returned from the Sweeps***			0.75
SRVY	RU VES wireline truck and Gyro tool. RIH and survey every 100'. Btm Hole Survey: Depth 611' Inc. 0.22° Azm 213.68°			1
TOOH_ELE V	TOOH from 625' to Surface. No overpull, hole free and clear. Keeping hole full with 2" kill line. LD Bit, Bit Sub, and Stabilizer. Concurrently: HPJSM on LD BHA.			2
SFTY	Clean and clear rig floor of all subs and bits after trip.			0.5

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Time Log Summary

Operation	Com	Dur (hr)
CSG_W/O WASH	PJSM w/ HP, Butches and Pioneer Rep on RU casing equipment. RU Butches Casing equipment: Elevators, Spider, Power tongs and C Plate. Btm Hole Survey: Depth 611' Inc. 0.22° Azm 213.68° 1 Generators 14 Hours 2 Generators 10 Hours	1

Report #: 2 Daily Operation: 5/24/2015 06:00 - 5/25/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
2	2	625.0	625.0	8.50	H & P, 606

Operations Summary

RU and ran 13 3/8" Casing to 625'. Cemented Casing and Topped Out. Cut Casing and installed Well Head. NU BOP and Tested. Tested Casing and performed Accumulator test. Installed Wear Bushing. LD Directional Tools from Derrick and PU new Directional BHA.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 1.5 Day From Spud, 2 Total Days On Well, 9.75 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)
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 Single Valve Float Shoe, 1 Jt of 13 3/8" 54.5# J-55 BT&C casing, 13 3/8" 54.5# J-55 Single Valve Float Collar & 1 Jt of 13 3/8" 54.5# J-55 BT&C casing, M/U Torque - 7,400 ft/lbs, made up to the 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 625'. ID of inside of csg elevators: 13 1/2" OD of 13 3/8" casing collar: 14 3/8" Casing on bottom @ 10:30 hrs. 5/24/15 Float Shoe @ 625' Float Collar @ 574' Bow spring centralizers run middle of shoe joint, 5' above float collar, on collars of Jts. # 5, 8 and 11 for a total of 5 centralizers. 2 Generators online.	3
RD	R/D casing tools, R/U Schlumberger circulating head	1
CIRC	Circulate 1.5 Casing volumes @ 88 spm. 8 bpm, 150 psi. Full returns. Note: Spot in and R/U Schlumberger cementing equipment while circulating casing.	2
RU	Held PJSM with Schlumberger cementing crew, H&P rig crew and PNR Co. Rep. R/D circulating swedge, RU cementing head and line. PNR Rep witnessed Loading of Plug. 1 Generator online	1
CMT	Cement 9 5/8" Intermediate casing per Schlumberger and PNR procedure. See cementing details in the cement report on page 3 of this daily drilling report. Drop top plug with tattle tail witnessed by PNR Co. Man & SLB Supervisor. Casing Shoe at 625' Top of Float Collar at 574' Full circulation throughout the job. 49 bbls of cement to surface. Plug down at 14:15 hrs. 5/24/2015. Floats Held.	1.5
CMT	Made up 120' of 1" pipe and topped off conductor with 100 sacks of class C cement mixed @ 14.8 ppg (24 bbls total). Pumped 1.1 bbl's/min, 150 - 220 psi pressure. Full returns throughout top out job. Rig down cementers & iron.	1
RD	Pull, rinse, out and LD 1" pipe. RD Schlumberger cement equipment.	0.5

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Time Log Summary

Operation	Com	Dur (hr)
WH	PJSM with HP Rig Crew, Welder, Weir Rep. and PNR Co. Man on Cutting Off Surface Pipe & Wellhead Installation, Check for gas contents in cellar, all good. Cut off conductor 63 1/2" below GL, perform rough cut on 13-3/8" casing. Make final cut on 13-3/8" casing 51 1/8" below GL, top of well head @ 18" below GL (measurement confirmed by PNR representative, welder, and Weir Rep.). Install and level wellhead on 13 3/8" surface casing. Preheat and Weld wellhead on casing. Let cool for 30 min then test well head to 565 PSI for 5 min - Good test. ***Confined Space and Hot Work Permit in place***	5
NU_BOPE	Hold PJSM with Rig Crew and Battle Torque. Install spacer spools on wellhead and NU BOP. Install flex hose, kill line. Set bell nipple. Attach turn buckles and center BOP. Connect fill hose, 2" bleeder hose and drain hoses. Make up flow line. ***Confined Space Permit in place***	2.5
TEST_BOP E	PJSM with Battle Energy Services BOP tester and rig crew on BOP testing, PU test plug, and set Plug in Wellhead. Fill Stack and Choke Line with Water, Test Breaks, Choke Line, and Standpipe back to Mud Pumps at 250 psi Low/5000 psi High (Hold each test for 5 minutes, all test good). 1 generator online	2.5
CSG_TEST	Test Casing to 1000 psi. Held pressure for 30 minutes, Test Good.	0.75
WH	Install Long Wear Bushing in Well Head. Tighten down two opposing lock Screws. Perform accumulator draw down test. Test good. Witness by PNR Rep. ***Confined Space Permit in place***	0.25
L/D BHA	LD Directional Tools from Derrick prior to PU New BHA.	1
SFTY	PJSM On PU BHA and BHA Handling with HP, Leam and PNR Rep. - PU and MU BHA # 2. Pick up 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. Note: Test MWD before making up bit. 2 Generators on line 7 hours. 1 Generator on line 17 hours.	2

Report #: 3 Daily Operation: 5/25/2015 06:00 - 5/26/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
3	3	3,015.0	3,013.4	9.10	H & P, 606

Operations Summary

Finished PU BHA. TIH and Drilled Out Cement, Float Collar, Shoe Track, and 10' of new Formation from 625' to 635'. Performed FIT to 10.8 ppg EMW. Rotate and Slide Drilled from 635' to 3,015'.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 2.5 Day From Spud, 3 Total Days On Well, 10.75 Total Days On Location

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

Completion percentage: Surface - 100%, Intermediate - 52%, Vertical Production Hole - 0%, Curve - 0%, Lateral - 0%

Time Log Summary

Operation	Com	Dur (hr)
TIH_ELEV	EJSA with H&P on tripping in the hole. TIH with 8" D.C.'s P/U & M/U Smith drilling jars. TIH with 5" HWDP. Tagged cement at 572'	2.5
DRL_OUT	Establish circulation. Drill out cement, float collar, shoe track and float shoe Float Collar @ 574' Shoe @ 625'	1
DRL	Drill 10' of new formation from 625' to 635'	0.25
CIRC	Pump high vis sweep to clean hole prior to performing FIT and verify consistent mud weight in/out	0.25
FIT/LOT	Perform FIT: MW 9.1 ppg in/out. Test to 11 ppg equivalent. 11 ppg - 9.1 ppg = 1.9 ppg x .052 x 625' = 62 psi. @ shoe depth TVD. Observed a 6 psi drop over 5 min. Pressure held at 56 psi f/ 5 min. (10.8 ppg EMW) Test good.	0.5
DRL	Rotate and slide drill 12 1/4" Intermediate - 528' @ 117' fph. MW 9.1 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 exit the casing*** 2 generators online	4.5

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Time Log Summary		
Operation	Com	Dur (hr)
RIG_SVC	Service rig equipment Note: After drilling a stand down a connection was attempted @ 1,162' . The top-drive was unable to break and back out the top-drive saver sub from D.P. connection. Manual tongs had to be used to make the break. Both the D.P. box and the saver sub pin were cleaned and inspected. No damage could be found with either one. A connection was made and pressured up on with no leaks. Drilling was resumed	0.5
DRL	Rotate and slide drill 12 1/4" Intermediate - 185' @ 82' fph. MW 9.1 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. Drilling with reduced drilling parameters while working on #1 mud pump from 1,163' to 1,348'	2.25
DRL	Rotate and slide drill 12 1/4" Intermediate - 1,667' @ 136' fph. MW 9.1 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. Last Survey MD 2788 feet INC 0.53 ° AZM 35.88 ° TVD 2786.39 feet NS -3.88 feet EW -58.71 feet VS 6.53 feet DLS 0.92 °/100' CL 94.00 feet LEAM DD Plan #2: 15.0' Ahead / 3.8' Left Ran 2 Generators 24 hours.	12.25

Report #: 4 Daily Operation: 5/26/2015 06:00 - 5/27/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
4	4	5,212.0	5,210.2	9.10	H & P, 606

Operations Summary
Drilled Intermediate Hole Section from 3,015' to Intermediate TD at 5,212'. Circulate Well Bore Clean and prepare to TOO H to run 9 5/8" Casing.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 3.5 Day From Spud, 4 Total Days On Well, 11.75 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)
DRL	Rotate and slide drill 12 1/4" Intermediate - 2,197' @ 99.8' fph. MW 9.1 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. Note: Generators tripped offline with 2 generators online. The 3rd generator was put online and the problems are continuing with all 3 generators online. H&P mechanic and electrician were notified of the situation and are enroute to the rig. Drilling parameters have been reduced in an effort to continue drilling without tripping the generators offline 3 generators online	22
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Circulate and condition hole to run casing - Pumped 2-40 bbls sweeps. No excess cuttings observed at surface. Concurrently: Prepare Rig Floor for TOO H. Projected Borehole Position MD 5212 feet INC 0.25 ° AZM 57.57 ° TVD 5210.23 feet NS 1.44 feet EW -38.85 feet VS 0.32 feet Bit Projection-HLLR North: 1.4 / East: 4.8 LEAM DD Plan #2: 4.4' Behind / 1.1' Right	1.25
FLOW_CHK	Perform Flow Check for 15 Minutes. No Flow, Well Static. Ran 2 Generators 6 Hours. Ran 3 Generators 18 hours.	0.25

Report #: 5 Daily Operation: 5/27/2015 06:00 - 5/28/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035217
Days From Spud (days) 5	Days on Location (days) 5	End Depth (ftKB) 5,212.0
	End Depth (TVD) (ftKB) 5,210.2	Dens Last Mud (lb/gal) 9.00
	Rig H & P, 606	

Operations Summary
TOOH, LD 8" Drill Collars, Directional BHA, and Bit. RU H&P CRT and Casing Tools. MU 2 Joint Shoe Track, run 9 5/8" Casing and land at 5,194'. Circulate Casing and RD Cement Equipment.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 4.5 Day From Spud, 5 Total Days On Well, 12.75 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)
TOOH_ELEV	PJSM with Rig Crew and PNR Rep. on TOO H, 15 min flow check. Well static. TOO H to Run 9 5/8" Intermediate Casing, from 5,212' to 504' monitor over trip tank, hole taking ~10% over calculated fill. 2 generators online	4.5
L/D BHA	PJSM on laying down BHA. LD 8" DC, Jars, X.O. Sub, Shock Sub, MWD, Motor and Bit. **Clean and clear rig floor of all Directional subs and Bit.**	4.5
WH	Release lock pins remove and inspect wear bushing. Wear bushing had no signs wear. Wash out well head.	1
CSG_W/O WASH	EJSA with H&P rig crew on RU CRT tools. RU H&P CRT tools. Set and test top-drive 2 point calibration with CRT tools 2 generator online until H&P and Caterpillar mechanic's can resolve issues with generators tripping off line	2.5
CSG_W/O WASH	PJSM MU 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. MU 9 5/8" BTC L-80 PDC drillable single valve float collar. Thread locked all threads from the shoe to the top of the float collar. MU 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 9,000 ft/lbs (Avg. of 10 jts. made up to base of triangle) from 143' to 5,196', Monitor returns over trip tank hole giving 70%-75% of Calculated displacement, breaking circulation every 40 joints. Began running at 50 ft./min., and increased to 105 ft./min. with Returns. CBU (1,609 Strokes) at 2544' at 250 GPM (6BPM), 180 SPP, and 21 - 25% Flow Out. Note: Had to LD 2nd Joint of Shoe Track and change the Collar on 1st Joint due to damaged Pin end while Making Up. Multiple Connections during Casing run were difficult to MU. While making up, the Torque Limiter would stop the Spinning Function at 4K and the Driller would have to use the Make Function to continue the MU of the Pipe and Torque it. Visually Inspected Box and Pin Threads on Joints that had to be backed out and there was no noticable defects.	10.5
CSG_W/O WASH	PJSM on MU Hanger and Landing Casing. MU and land the Casing Hanger, measurements confirmed to ensure proper seat in the Wellhead by both Seaboard and PNR Co. Reps.	0.25
CIRC	Circulate One Complete Surface to Surface Circulation. 250 GPM, 250 SPP, 21% - 25% Flow Out. Ran 2 Generators for 24 Hours.	0.75

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Report #: 6 Daily Operation: 5/28/2015 06:00 - 5/29/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035217		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
6	6	5,263.0	5,261.2	8.50	H & P, 606			

Operations Summary
Circulated Casing on complete Surface to Surface Volume. RU Schlumberger and Cemented 9 5/8" casing. RD Cement Equipment and CRT. Prepared Mud Tanks for OBM. Installed Wear Bushing. PU Directional BHA and MU 8 3/4" Bit. TIH and Tested Casing to 2500 psi. Drilled Out Cement, Shoe Track, and 10' of New Formation. Performed FIT to 10.5 ppg EMW. Drill from 5,222' to 5,263'

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 5.5 Day From Spud, 6 Total Days On Well, 13.75 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 - 2%, Curve - 0%, Lateral - 0%

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Circulate and Condition hole for cement. Surface to Surface @ 6bpm, with full returns.	1.5
RU	EJSA - RU Schlumberger cementing equipment.	0.5
CMT	Pressure test lines to 1000psi low and 3500psi high. Pumped 10bbls of fresh water to pit to flush lines, 40bbls of Mud Push spacer @ 6bpm, 146bbls - 353Sxs of 11.5ppg Lead cement, 36.7bbls - 194Sxs of 16.4ppg Tail cement, Dropped plug and Displaced w/ 367bbls of fresh water. Full returns throughout job, floats held, bleed back 2bbls.	2.5
RD	RD cement equipment, flush lines and BOP stack. Back out landing jnt.	1
WH	Install packoff in wellhead and energize same. Test packoff to 5000psi. LD landing joint and running tool. ***Confined Space Permit in Place****	2
RD	EJSA - RD H&P CRT and LD same. Install elevators, perform two point calibration, check stop points and test crown saver.	0.5
RIG_SVC	Rig Sevice	0.5
PU_BHA	Prep backyard and mud pits for oilbase mud. Prep rig floor for PU of BHA. Install pollution pan on BOP. Lay out and strap BHA. Mud control installing hopper for vertical dryer.	3.5
WH	Install Short Wear Bushing in Well Head. Tighten down two opposing lock Screws. Witness by PNR Rep. ***Confined Space Permit in place***	0.5
PU_BHA	PJSM on PU BHA & BHA handling with HP, Leam and PNR Rep. Pick up and make up BHA # 3. Pick up 6 3/4" XD, 7/8, 5.0, 2.0° 0.29 rpg, fixed bend mud motor with 8 1/4" stabilizer, 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.	2
WAIT	Waiting on Weather due to Lightening in close proximity to the Rig.	2
TIH_ELEV	Tripping in the hole at 4,893'. PU, MU and TIH with 5" Drill Pipe to make up the difference in Footage of the new BHA. Tagged cement at 5,098'.	3.75
CSG_TEST	Tested casing to 2,500 psi for 30 minutes. Test good.	0.75
DRL_OUT	Establish circulation. Drill cement and shoe track from 5,099' to 5,196' and 10' of New Formation from 5,212' to 5,222' with 308 gpm, 30 TDRPM, WOB 5-15 K.	1
CIRC	Displaced Well with 8.6 ppg OBM. Circulate and condition mud weight to 8.6 ppg in/out prior to FIT. 398 GPM, 900 SPP. Shut down and flow check- well static.	1
FIT/LOT	Perform FIT with 8.6 ppg MW, (5,222' TVD) = 516 psi ~ 10.5 ppg EMW. (Test Good).	0.25
DRL	Rotate drill 8 3/4" Vertical Production - 41' @ 54.6' fph. MW 8.6 ppg. Full returns to surface. 2 generators online 2 Hours. 1 generator online 1 Hour.	0.75

Report #: 7 Daily Operation: 5/29/2015 06:00 - 5/30/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035217		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
7	7	7,306.0	7,304.1	8.70	H & P, 606			

Operations Summary
Rotate and Slide Drilled from 5,263' to 7,306'.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 6.5 Day From Spud, 7 Total Days On Well, 14.75 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 - 77%, Curve - 0%, Lateral - 0%

Time Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and Slide drill 8 3/4" Vertical Production - 1,697' @ 89.3' fph. MW 8.6 - 8.7 ppg. Full returns to surface. Lithology: 5,220' - 80% SH, 20% SD 5,380' - 40%SH, 60% SD 5,600' - 60%SH, 40% SD 5,840' - 80%SH, 20% SD 6,290' - 90% SH,10% SD 6,500' - 40% SH, 60 SD 6,680' - 60% SH, 40% SD, 10% SL 6,800' - 50% SH, 50% SD 6,950' - 80% SH, 10% SD, 10% SL	19
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL	Rotate and Slide drill 8 3/4" Vertical Production - 346' @ 76.8' fph. MW 8.7 ppg. Full returns to surface. Lithology: 6,980' - 90% SH, 10% SL 7,070' - 50% SH, 50% SD 7,140' - 80% SH, 20% SD Last Survey MD 7192 feet INC 0.35 ° AZM 81.94 ° TVD 7190.15 feet NS 0.51 feet EW -31.28 feet VS 0.90 feet DLS 0.18 °/100' CL 94.00 feet LEAM DD Plan #2: 1.2' Behind / 12.3' Right Ran 2 Generators 24 Hours.	4.5

Report #: 8 Daily Operation: 5/30/2015 06:00 - 5/31/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
8	8	8,055.0	8,048.2	8.75	H & P, 606

Operations Summary
Drilled Vertical Production Hole Section from 7,306' to KOP at 7,850'. Drilled Curve Hole Section from 7,850' to 8,055'. Circulate Bottoms up, Shakers clean. Perform Flow Check, Well Static. Pump Slug and TOOH from 8,055' to 4,700' due to Low ROP.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 7.5 Day From Spud, 8 Total Days On Well, 15.75 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 - 100%, Curve - 20%, Lateral - 0%

Time Log Summary

Operation	Com	Dur (hr)
DRL	Rotate Drill 8 3/4" Vertical Production - 544' @ 60' fph. MW 8.7+ ppg. Full returns to surface. Lithology: 7,315' - 70% SH, 30% SD 7,400' - 70%SH, 30% SD 7,490' - 60%SH, 40% SD 7,580' - 80%SH, 20% SD 7,630' - 70% SH,20% SD, 10% LS 7,720' - 90% SH, 10% SD 7,820' - 70% SH, 20% SD, 10% LS 7,840' - 50% SH, 40% SD, 20% LS Drilled to KOP at 7,850' at 15:00.	9

Time Log Summary		
Operation	Com	Dur (hr)
DRL	Rotate and Slide Drill 8 3/4" Curve Hole Section - 148' @ 15.6' fph. MW 8.7 - 8.7+ ppg. Adjusting Drilling Parameters to achieve maximum ROP. Full returns to surface. Lithology: 7,860' - 50% SH, 50% SD 7,890' - 30% SH, 70% SD 7,940' - 80% SH, 10% SD, 10% LS 7,980' - 90% SH, 10% SD	9.5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL	Rotate and Slide Drill 8 3/4" Curve Hole Section - 57' @ 22.8' fph. MW 8.7+ ppg. Full returns to surface. Lithology: 8,010' - 90% SH, 10% SD 8,055' - 80%SH, 10% SD, 10% LS Last Survey MD 7947 feet INC 10.73 ° AZM 204.98 ° TVD 7944.50 feet NS -12.94 feet EW -32.91 feet VS 14.41 feet DLS 9.61 °/100' CL 95.00 feet LEAM DD Plan #2: 6.4' Ahead / 15.0' Left MY: 9.6 DLN: 8.5	2.5
CIRC	CBU at 493 GPM, 2100 SPP, and Prepare to TOOH due to low ROP. Concurrently: Build Slug and HPJSM on TOOH.	0.75
TOOH_ELE V	Perform Flow Check, Well Static. Pump Slug and TOOH from 8055' to 4700'. Monitoring Well on Trip Tanks, Correct Fill. Ran 2 Generators 24 Hours.	1.75

Report #: 9 Daily Operation: 5/31/2015 06:00 - 6/1/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
9	9	8,405.0	8,337.2	8.70	H & P, 606

Operations Summary

Finish TOOH, LD Bit and Motor. Pull Wear Bushing and Wash Well Head. PU new Motor and MU new Bit. TIH to 5,190' and Cut Drill Line. TIH from 5,190' to 8,055'. Rotate and Slide Drill from 8,055' to 8,405'.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 8.5 Day From Spud, 9 Total Days On Well, 16.75 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 - 100%, Curve - 56%, Lateral - 0%

Time Log Summary		
Operation	Com	Dur (hr)
TOOH_ELE V	TOOH from 4700" to BHA'. Monitoring Well on Trip Tanks, Correct Fill.	3
L/D BHA	PJSM on LD BHA - LD Directional BHA # 3. Change out bit, motor and MWD. PJSM on PU BHA and BHA handling with HP, Leam and PNR Rep. Pick up and make up BHA # 4. Pick up 6 3/4" XD, 7/8, 5.0, 2.0° 0.29 rpg, fixed bend X 7 1/2" Slick Mud Motor, Scribe Tools, install and test MWD and Motor (tested Good), MU 8 1/2" Halliburton MMD55DM bit #4.	2
WH	Pull, clean and inspect wearbushing. Re-install same. Witness by PNR Rep. ***Confined Space Permit in place***	1
TIH_ELEV	TIH from 98' to 5169'. Monitoring hole displacement on trip tank, proper displacement.	3
SLIP_CUT	PJSM on Docking the Top Drive, Slip and Cut Drill Line - Cut 54'.	1
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
SLIP_CUT	Undock Top Drive, perform Two Point calibration; Check Stop Points and perform Crown Saver Test.	0.5
TIH_ELEV	TIH from 5,196' to 8,000' Monitoring Well on Trip Tanks, Correct Displacement.	2
LWD	Fill Pipe and Re-Log Gamma from 8,000' to 8,055' at 590 GPM, 2,175 SPP.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and Slide Drill 8 1/2" Curve Hole Section - 350' @ 35' fph. MW 8.7+ ppg. Full returns to surface. Lithology: 8,080' - 90% SH, 10% LS 8,200' - 70% SH, 30% LS 8,290' - 80% SH, 20% LS 8,320' - 90% SH, 10% LS Last Survey MD 8340 feet INC 42.03 ° AZM 194.61 ° TVD 8291.68 feet NS -176.38 feet EW -93.85 feet VS 180.44 feet DLS 9.22 °/100' CL 95.00 feet LEAM DD Plan #2: 31.6' Ahead / 4.4' Right MY: 9.2 DLN: 10.4 Note: Lowering GPM to increase Motor Yield. Ran 1 Generator 2 Hours Ran 2 Generators 22 Hours.	10

Report #: 10 Daily Operation: 6/1/2015 06:00 - 6/2/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
10	10	10,181.0	8,484.9	8.70	H & P, 606

Operations Summary

Drilled Curve from 8,405 to 8,830' (Landed Curve). Drill Lateral from 8,830' to 10,181'.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 9.5 Day From Spud, 10 Total Days On Well, 17.75 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 - 100%, Curve - 100%, Lateral - 14%

Time Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and Slide Drill 8 1/2" Curve Hole Section 425' @ 47.2' fph. MW 8.7+ ppg. Full returns to surface. Landed Curve @ 15:00hrs - 8850' MD. Lithology: 8,412' - 60% SH, 40% LS 8,460' - 80% SH, 20% LS 8,530' - 70% SH, 30% LS	9
DRL	Rotate and Slide Drill 8 1/2" Lateral Hole Section - 1,161' @ 96.75' fph. MW 8.6 - 8.7+ ppg. Full returns to surface. Lithology: 8,560' - 60% SH, 40% LS 8,590' - 70% SH, 30% LS 8,620' - 80% SH, 20% LS 8,670' - 70% SH, 30% LS 8,700' - 60% SH, 40% LS 8,750' - 40% SH, 60% LS 8,810' - 80% SH, 20% LS 9,020' - 90% SH, 10% LS	12
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean. Perform 2 Point Calibration.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
DRL	<p>Rotate and Slide Drill 8 1/2" Curve Hole Section - 190' @ 76' fph. MW 8.6 - 8.7+ ppg. Full returns to surface.</p> <p>Lithology: 8,080' - 90% SH, 10% LS 8,200' - 70% SH, 30% LS 8,290' - 80% SH, 20% LS 8,320' - 90% SH, 10% LS</p> <p>Last Survey MD 10036 feet INC 90.31 ° AZM 178.79 ° TVD 8486.64 feet NS -1796.16 feet EW -305.74 feet VS 1808.15 feet DLS 0.63 °/100' CL 94.00 feet</p> <p>LEAM DD Plan #2: 0.5' Above / 15.1' Right</p> <p>Ran 2 Generators 24 Hours.</p>	2.5

Report #: 11 Daily Operation: 6/2/2015 06:00 - 6/3/2015 06:00

Job Category	Primary Job Type	AFE Number			
ORIG DRILLING	ODR	035217			
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
11	11	11,878.0	8,474.7	8.80	H & P, 606

Operations Summary

Drilled Lateral from 10,181' to 11,878'.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 10.5 Day From Spud, 11 Total Days On Well, 18.75 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 - 100%, Curve - 100%, Lateral - 31%

Time Log Summary

Operation	Com	Dur (hr)
DRL	<p>Rotate and Slide Drill 8 1/2" Curve Hole Section - 835' @ 81.5' fph. MW 8.6 - 8.7 ppg. Full returns to surface.</p> <p>Lithology: 10,220' - 90% SH, 10% LS 10,440' - 90% SH, 10% LS, HD SH 10,560' - 80% SH, 20% LS 10,740' - 90% SH, 10% LS 10,840' - 80% SH, 20% LS</p>	10.25
SFTY	<p>At 16:15, H2S monitors #2 and #3 activated. The Drill spaced out and Shut in the Well. All personel Mustered, Midland Safety was alerted, and PNR Safety was also alerted. Midland Safety arrived on Location at 18:00. After checking the Monitors and assuring the area was safe, Midland Safety gave the all clear for the Driller and Toolpusher to open the Well. CBU staging Mud Pumps up to 553 GPM, 2,900 SPP, 75 TDRPM, 6K Tq, max Bottoms up Gas was 4457 units. Midland Safety gave all clear after Bottoms Up to continue with normal Operations. Decision was made to increase MW from 8.6+ ppg to 8.8 ppg.</p>	3.25
DRL	<p>Rotate and Slide Drill 8 1/2" Curve Hole Section - 116' @ 92.8' fph. MW 8.7 - 8.8 ppg. Full returns to surface.</p> <p>Lithology: 11,020' - 70% SH, 30% LS 11,132' - 90% SH, 10% LS</p> <p>Tolerance change. The new tolerances are 25' high and 5' low to LEAM directional plan 2.</p>	1.25
SFTY	<p>At 20:45, H2S monitor #1 activated. The Drill spaced out and Shut in the Well. All personel Mustered, Midland Safety was alerted, and PNR Safety was also alerted. Midland Safety arrived on Location at 22:00. After checking the Monitors and assuring the area was safe, Midland Safety gave the all clear for the Driller and Toolpusher to open the Well. CBU staging Mud Pumps up to 553 GPM, 2,900 SPP, 15 TDRPM, 5K Tq, max Bottoms up Gas was 2916 units. Midland Safety gave all clear after Bottoms Up to continue with normal Operations. The Midland Safety Rep replaced the H2S Controler and 3 Sensors. Midland Safety is keeping a Rep on Locations to continue to Monitor the Equipment.</p>	2.5
DRL	<p>Rotate and Slide Drill 8 1/2" Curve Hole Section - 557' @ 117.3' fph. MW 8.8 ppg. Full returns to surface.</p> <p>Lithology: 11,330' - 80% SH, 20% LS 11,480' - 90% SH, 10% LS 11,590' - 80% SH, 20% LS</p>	4.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary		
Operation	Com	Dur (hr)
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL	Rotate and Slide Drill 8 1/2" Curve Hole Section - 189' @ 126' fph. MW 8.8 ppg. Full returns to surface. Last Survey MD 11734 feet INC 91.19 ° AZM 178.62 ° TVD 8477.92 feet NS -3492.58 feet EW -322.41 feet VS 3503.59 feet DLS 1.13 °/100' CL 95.00 feet LEAM DD Plan #2: 6.5' Above / 4.0' Left Ran 3 Generators 24 Hours.	1.5

Report #: 12 Daily Operation: 6/3/2015 06:00 - 6/4/2015 06:00						
Job Category ORIG DRILLING				Primary Job Type ODR		AFE Number 035217
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
12	12	13,858.0	8,475.1	8.80	H & P, 606	
Operations Summary Drilled Lateral from 11,878' to 13,858'.						
Remarks Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 11.5 Day From Spud, 12 Total Days On Well, 19.75 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 - 100%, Curve - 100%, Lateral - 51%						

Time Log Summary		
Operation	Com	Dur (hr)
DRL	Rotate and Slide Drill 8 1/2" Lateral Hole Section - 1886' @ 85' fph. MW 8.7 - 8.8+ ppg. Full returns to surface. Lithology: 11,810' - 90% SH, 10% LS 11,990' - 80% SH, 20% LS 12,170' - 70% SH, 30% LS 12,440' - 50% SH, 50% LS 12,790' - 90% SH, 10% LS 13,060' - 90% SH, 10% LS 13,360' - 90% SH, 10% LS 13,600' - 90% SH, 10% LS	22
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5
DRL	Rotate and Slide Drill 8 1/2" Lateral Hole Section - 94' @ 63' fph. MW 8.8+ ppg. Full returns to surface. Last Survey MD 13713 feet INC 90.84 ° AZM 181.78 ° TVD 8475.23 feet NS -5470.34 feet EW -364.82 feet VS 5481.24 feet DLS 1.35 °/100' CL 94.00 feet LEAM DD Plan #2: 17.0' Above / 3.1' Left ; Line Tolerances 25' High, 5' Low; 50R/50L 3 Generators online.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Report #: 13 Daily Operation: 6/4/2015 06:00 - 6/5/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035217		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
13	13	15,085.0	8,498.4	8.85	H & P, 606			

Operations Summary
Drill Lateral Hole Section from 13,858' to 15,085' (1,227' total). Shut well in due to H2S monitor showing 6 ppm on rig floor.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 12.5 Day From Spud, 13 Total Days On Well, 20.75 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 - 100%, Curve - 100%, Lateral - 62%

Time Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and Slide Drill 8 1/2" Lateral Hole Section - 1,227' @ 52' fph. MW 8.8+ ppg. Full returns to surface. Lithology: 13,940' 90 SH / 10 LS 14,030' 80 SH / 20 LS 14,150' 80 SH / 20 LS 14,210' 90 SH / 10 LS / TR PYR 14,470' 90 SH / 10 LS / PYR 14,580' 90 SH / 10 LS 14,730' 90 SH / 10 LS 15,000' 90 SH / 10 LS Last Survey MD 14941 feet INC 88.81 ° AZM 183.36 ° TVD 8496.24 feet NS -6697.25 feet EW -404.27 feet VS 6708.68 feet DLS 1.41 °/100' CL 95.00 feet LEAM DD Plan #2: 7.3' Above / 10.6' Right Note: tolerance window changed @ 09:00 hrs to 15' H/15' L to Dir. plan #2 3 Generators online	23.5
SFTY	At 05:30 H2S monitor #1 activated showing 6 ppm. The Drill spaced out and Shut in the Well. All personnel Mustered. Midland Safety was alerted. Waiting on Midland Safety to arrive at Location.	0.5

Report #: 14 Daily Operation: 6/5/2015 06:00 - 6/6/2015 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 035217		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
14	14	15,954.0	8,522.2	8.80	H & P, 606			

Operations Summary
Shut well in due to H2S alarm. All Clear. Drill Lateral f/ 15,085' t/ 15,954'. Shut well in due to H2S alarm (No accidents or incidents).

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 13.5 Day From Spud, 14 Total Days On Well, 21.75 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 - 100%, Curve - 100%, Lateral - 72%

Time Log Summary

Operation	Com	Dur (hr)
SFTY	At 05:30 H2S monitor #1 activated showing 6 ppm. The Drill spaced out and Shut in the Well. All personnel Mustered. Midland Safety was alerted. Midland Safety arrived on location @ 08:30hrs. After checking the Monitors and ensuring the area was safe, Midland Safety gave the all clear for the Driller and Toolpusher to open the Well. CBU staging Mud Pumps up to 553 GPM, 2,900 SPP, 75 TDRPM, 6K Tq, max Bottoms up Gas was 5100 units. Midland Safety gave all clear after Bottoms Up to continue with normal Operations.	4

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
DRL	<p>Rotate and Slide Drill 8 1/2" Lateral Hole Section - 869' @ 51' fph. MW 8.8 ppg. Full returns to surface.</p> <p>Lithology: 15100' 90%SH / 10%LS TR PYR 15130' 90%SH / 10%LS TR PYR 15190' 40%LS / 60%SH 15300' 60%SH / 40% LS 15520' 80%SH / 20% LS 15640' 90% SH / 10% LS 15760' 90% SH / 10% LS 15860' 90% SH / 10% LS</p> <p>Last Survey MD 15884 feet INC 88.90 ° AZM 177.21 ° TVD 8521.62 feet NS -7639.03 feet EW -406.50 feet VS 7649.60 feet DLS 0.99 °/100' CL 94.00 feet</p> <p>LEAM DD Plan #2: 9.3' Below / 7.0' Left</p> <p>3 Generators on line</p>	17
SFTY	<p>At 3:00 am H2S monitor #1 on the rig floor read 11 ppm. Driller Killed pumps, picked up and spaced out Drill string. Shut well in, No casing pressure present. All personnel mustered on location. Midland Safety and Health was alerted to come and asses situation, prior to resuming operations. H2S Safety Rep on locations @ 5:00 am. Found area to be all clear. Circ. BU and monitor for gas @ shakers.</p>	3

Report #: 15 Daily Operation: 6/6/2015 06:00 - 6/7/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217	
Days From Spud (days) 15	Days on Location (days) 15	End Depth (ftKB) 16,668.0	End Depth (TVD) (ftKB) 8,506.4	Dens Last Mud (lb/gal) 8.80	Rig H & P, 606

Operations Summary

Work tight hole and perform clean up cycle, Drill Lateral f/ 15,954' t/ 16,668' (No accidents of Injuries).

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 14.5 Day From Spud, 15 Total Days On Well, 22.75 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 - 100%, Curve - 100%, Lateral - 79%

Time Log Summary

Operation	Com	Dur (hr)
CIRC	<p>CBU staging Mud Pumps up to 530 GPM, 3,100 SPP, 70 TDRPM, 9K Tq, max Bottoms up Gas was 5165 units. Well started packing off before receiving B/U and gpm were lowered to maintain circulation until receiving bottoms up and all clear from Midland safety. Upon receiving the all clear, a double was put in the mousehole and a cleanup cycle was deemed necessary.</p> <p>Perform clean up cycle as per K&M, Pump 5.75 Bottoms up (47,500 stks) while reciprocating pipe full stroke at 550 gpm on the up stroke and 200 gpm on the down stroke, staging pumps up as well allowed to drill rate of 585 gpm while rotating string at 70 rpm. Well allowed to work pipe full stroke, up and down, at 585 gpm after 31,000 stks pumped while weighting system up from 8.75 ppg to 8.9 ppg</p> <p>Shakers loaded up from 10-15% on first three bottoms up with fine to medium cuttings to 55-60% medium to large shale on fourth bottoms up with splintered shale. After fifth bottoms up shaker loads were 5-10% fine material.</p> <p>Note: Midland Safety H2S equipment was rigged down and AmPro H2S monitoring system was rigged up.</p>	8
DRL	<p>Rotate and Slide Drill 8 1/2" Lateral Hole Section - 640' @ 44' fph. Continued weighting up MW to 9.0 ppg. Full returns to surface.</p> <p>Lithology: 15960' 90%SH / 10%LS 16190' 90%SH / 10%LS 16330' 80%SH / 20%LS 16490' 90%SH / 10% LS</p>	14.5
RIG_SVC	Lubricate Rig and Top Drive, Checked Suction Screens on Mud Pumps, Screens Clean.	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
DRL	<p>Rotate and Slide Drill 8 1/2" Lateral Hole Section - 95' @ 95' fph. Continued weighting up MW to 9.0 ppg. Full returns to surface.</p> <p>Last Survey MD 16544 feet INC 90.66 ° AZM 183.19 ° TVD 8509.23 feet NS -8298.52 feet EW -411.14 feet VS 8308.63 feet DLS 0.94 °/100' CL 94.00 feet</p> <p>LEAM DD Plan #2: 3.6' Above / 16.2' Left</p> <p>3 Generators on line 24 hours</p>	1

Report #: 16 Daily Operation: 6/7/2015 06:00 - 6/8/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035217
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Days From Spud (days) 16	Days on Location (days) 16	End Depth (ftKB) 16,784.0	End Depth (TVD) (ftKB) 8,502.4	Dens Last Mud (lb/gal) 9.00	Rig H & P, 606
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Operations Summary
Drill Lateral f/ 16,668 t/ 16,784'. Circulate Clean up Cycle, TOO H f/ 16,784' t/ 5,100', Slip and Cut Drill line, TOO H f/ 5,100' t/ 94', Laydown BHA, Pull Wearbushing, Test BOP,

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 15.5 Day From Spud, 16 Total Days On Well, 23.75 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 - 80%

Time Log Summary

Operation	Com	Dur (hr)
DRL	<p>Rotate and Slide Drill 8 1/2" Lateral Hole Section - 116' @ 39' fph. Full returns to surface. MW 9.0 IN/OUT 75 Visc.</p> <p>Lithology: 16,700' 60% SH, 40% LS 16,780' 70% SH, 30% LS</p> <p>Note: Spoke with PNR Drig. Eng. and PNR Drig. Supt. and decision was made to TOO H for fresh bit and mud motor.</p> <p>Last Survey MD 16732 feet INC 92.77 ° AZM 181.43 ° TVD 8503.90 feet NS -8486.27 feet EW -418.72 feet VS 8496.52 feet DLS 1.61 °/100' CL 94.00 feet</p> <p>Leam DD Plan #2: 8.9' Above , 12.6' Left</p>	3
CIRC	<p>Circulate three bottoms up while pumping at 586 gpm, 70 rpm and working drill string full stroke. Full returns to surface.</p> <p>Shaker capacity cleaned up to less than 5%</p>	3.5
TOOH_ELE V	<p>Check for flow, lay down single jt. of DP and TOO H F/ 16,784' T/ 5,100'. Pump slug and TOO H T/ 15,500' Monitoring well on trip tank. Well taking proper fill.</p> <p>Experienced Tight hole f/ 8,640' T/ 8,600', Normal PU 225 k, Pull 50 k over and work pipe. Turn string 180° and string came through.</p>	6
SLIP_CUT	<p>PJSM on Slip and Cut of Drill Line. Dock TDS and Blocks. Slip and Cut 6 wraps of Drill Line. Perform 2 point Calibration prior to resuming Tripping operations.</p>	2
TIH_ELEV	<p>Resume TIH f/ 5,100' t/ 94'. Monitor returns over tip tank. Well taking proper fill.</p>	2.5
SFTY	<p>Clean and clear rig floor after trip.</p>	0.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary		
Operation	Com	Dur (hr)
L/D BHA	PJSM w/ HP, Leam and PNR Rep on laying down BHA. Drain Motor Motor, Break Bit, remove MWD and laydown Directional BHA #4.	1.5
RIG_SVC	Service rig. Lubricate Drawworks, TDS and Blocks.	0.5
WH	Remove and inspect Wearbushing, Drain stack and prepare to install test plug. Had to spend extra time clearing Debris f/ Casing valve in order to get stack to drain. **Confined space entry in place.**	1
TEST_BOP E	PJSM w/Battle Energy Services BOP Tester & Rig Crew on BOP Testing, P/U test plug, set plug in wellhead, close blind rams, (casing valve open) 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. 1 Generator online.	3.5

Report #: 17 Daily Operation: 6/8/2015 06:00 - 6/9/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035217	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
17	17	16,784.0	8,502.4	9.00	H & P, 606	

Operations Summary
R/D BOP tester, Test Accum. Install Wearbushing. Make up Directional BHA, TIH f/ 94' t/ 16,233', Wash and ream f/ 16,233' t/ 16,687'.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 16.5 Day From Spud, 17 Total Days On Well, 24.75 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 - 80%

Time Log Summary		
Operation	Com	Dur (hr)
TEST_BOP E	PJSA and test annular T/ 3,500 psi high/250 psi low. Test floor valves T/ 5,000 psi high/250 low. Pull test plug and ensure casing valve closed. Rig down test equipment. Witnessed by PNR Rep. Note: Confined space permit in place.	2
NU_BOPE	Install wearbushing, lock pins and check packing nuts. Perform accumulator draw down test Witnessed by PNR Rep.	1
SFTY	Clear and organize rig floor and have PJSA for making up directional tools.	0.5
PU_BHA	P/U and M/U slick directional assembly with .29 rpg true slick 2" mud motor. Scribe same and install MWD tool. Test MWD - good test M/U bit	2.5
TIH_ELEV	TIH F/ surface T/ 5,150'. Monitor well on trip tank for proper dp displacement. Fill pipe every 30 stands.	2.5
NU_BOPE	Remove trip nipple and install rotating head. Monitor well on trip tank.	0.5
TIH_ELEV	TIH F/ 5,150' T/ 16,233'. Monitor well on trip tank for proper Dp displacement. Fill pipe every 30 stands. Began experiencing tight hole @ 16,233'. Normal SO 185 k, started taking an additional weight. Set down to 140 k. Begin washing to bottom	6.5
TIH_NONE LEV	Wash and Ream remaing DP stands to Bottom f/ 16,233' t/ 16,687'. Begin by pumping and rotating @ 30 spm w/ 20 rpms, t/ 140 spm, 540 gpm, 70 rpm. Start working parameters up as hole conditions dictate. Zero stroke counter and begin calculating bottoms up Circ. (8,800 stks). @ 862 strks Back ground gas came up t/ 2,700 units, line up to circulate through gas buster. While Circulating through gas buster average gas readings range f/ 2,500 units t/ 4,500 units. Max returned gas was 5,751, with flare heights of 15' to 25'. After Circulating out the BU gas, continue to adjust circulating parameters to achieve Drilling rates. Experiencing hole pack off issues. Able to Run full parameters of 70 rpms, 140 spm, 540 gpm, 3,600 psi up, but having to reduce parameters t/ 60 rpms, 60 spms going down. Stage up pump rate after each pass until full parameters are reached prior to making up next stand. Cuttings across shakers are minimal fines, @ 13,025 stks started seeing 10% increase in normal sized cuttings w/ a few pea sized cuttings. @ 24,000 saw 15% increase in reg. drill cuttings and 5% increase in pea sized cuttings, @ 34,500 stk cuttings increased t/ 20% w/ 5% marble sized cuttings.	8.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Report #: 18 Daily Operation: 6/9/2015 06:00 - 6/10/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035217
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Days From Spud (days) 18	Days on Location (days) 18	End Depth (ftKB) 18,668.0	End Depth (TVD) (ftKB) 8,480.9	Dens Last Mud (lb/gal) 9.10	Rig H & P, 606
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Operations Summary
Finish washing to bottom, Relog last 50' of Gamma, Drill f/ 16,784 t/ 18,667'.(1,883' total feet.) No accidents or injuries.

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 17.5 Day From Spud, 18 Total Days On Well, 25.75 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 - 99%

Time Log Summary

Operation	Com	Dur (hr)
TIH_NONE LEV	Continue to W/R F/ 16,687' T/ 16,784' with 550 gpm on the up stroke and 200 gpm on the down stroke. Staging pumps up to drilling rate of 550 gpm up/down as well allows. Relog gamma last 50' Full returns to surface. Shakers loaded to 10-15% with fine to marble sized shale.	3
DRL	Rotate and Slide Drill 8 1/2" Lateral Hole Section - 1,883' @ 89' fph. Weighting up from 9.1 ppg MW To 9.15 ppg MW. Full returns to surface. Lithology: 16800' 80%SH / 20%LS / TR PYR 16830' 90%SH / 10%LS / TR PYR 16890' 75%SH / 10%LS / 15%PYR 17040' 90%SH / 10% LS / TR PYR 17220' 60%SH / 40% LS / TR PYR 17420' 90%SH / 10% LS 17600' 90%SH / 10% LS 17810' 90%SH / 10% LS 18030' 90%SH / 10% LS Last Survey MD 18335 feet INC 90.48 ° AZM 178.62 ° TVD 8492.65 feet NS -10088.19 feet EW -454.93 feet VS 10098.44 feet DLS 0.74 °/100' CL 95.00 feet LEAM DD Plan #2: 20.3' Above / 10.2' Left, Line Tolerance 30' up, 0' down/ 50'L, 50'R. 3 Generators Online	21

Report #: 19 Daily Operation: 6/10/2015 06:00 - 6/11/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035217
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Days From Spud (days) 19	Days on Location (days) 19	End Depth (ftKB) 18,698.0	End Depth (TVD) (ftKB) 8,479.2	Dens Last Mud (lb/gal) 9.10	Rig H & P, 606
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Operations Summary
Drill Lateral f/ 18,667 t/18,697' (TD) 30' total feet. Perform K&M Clean up Cycle, TOO H f/ 18,697' t/ 17,680'. Clrc. Clean up Cycle. Wash out of hole f/ 17,680' t/ 11,800' No accidents or Incidents

Remarks
Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 18.5 Day From Spud, 19 Total Days On Well, 26.75 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 - 100%

Time Log Summary

Operation	Com	Dur (hr)
DRL	Rotate and Slide Drill 8 1/2" Lateral Hole Section - 31' @ 31' fph. Full returns to surface TD @ 18,698' - 07:00 / 6/10/2015	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Perform clean-up cycle as per K&M - Circulate 7 bottoms up (69,000 stks) while weighting up from 9.15 ppg to 9.25 ppg. Pump at 550 gpm, 75 rpm, 3750 psi spp, while working drill string full stroke. The shakers decreased from approx. 30% load with fine to medium material to approx. 10% same size material between the fifth and sixth bottoms up. Shakers cleaned up at end of clean-up cycle.	8
SFTY	Circulate while conducting search with Pioneer security.	1
TOOH_ELE V	PJSM on TOOH w/ HP and PNR rep. Check f/ Flow. No Flow. TOOH F/ 18,698' T/ 17,748'. Pump slug and TOOH T/ 17,680' Monitoring well on trip tank. Well taking proper fill. Experienced tight hole @ 17,680'. Normal PU 258 k, pull to 300 k, able to slack off but unable to come up. Consult w/ Field Superintendents and Engineer. Decision was made to Circulate and Raised MW f/ 9.2 t/ 9.4 ppg	1.5
CIRC	Circulate and Raise MW f/ 9.2 t/ 9.4 ppg. At start of Circulation had to progressively work pumps up due to pack off issues. Start w/ 60 spms, 230 gpm, 60 rpms. Reciprocate pipe and raise parameters until finally circulating @ 130 spm, 500 gpm, 60 rpms. During Circulations 1st BU returned: 10% Cuttings increase of med cuttings. 2nd BU returned: No med cuttings, but only 10% Ultra fine cuttings 3rd BU returned: only 5% of ultra fine cuttings.	5
TOOH_NO NELEV	Wash and Ream out of hole f/ 17,860' t/ 11,800'. 400 gpm, 50 rpms no indication of well problems. **While washing stands out of hole, Small amounts reg size Drill cuttings coming across shakers.**	7.5

Report #: 20 Daily Operation: 6/11/2015 06:00 - 6/12/2015 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 035217
Days From Spud (days) 20	Days on Location (days) 20	End Depth (ftKB) 18,698.0
	End Depth (TVD) (ftKB) 8,479.2	Dens Last Mud (lb/gal) 9.45
		Rig H & P, 606

Operations Summary

Wash out of hole F/ 11,800' T/ 9,300'. Circulate at base of cruve (clean up cycle). TOOH F/9,300' T/BHA. Lay down directional tools.Rig up CRT and casing tools. Make up shoe track and test.Test good. Run 5 1/2" production casing t/ 2,300'. No accidents or Incidents

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 19.5 Day From Spud, 20 Total Days On Well, 27.75 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 - 100%

Time Log Summary

Operation	Com	Dur (hr)
TOOH_NO NELEV	Wash and Ream out of hole f/ 11,800' t/ 9,300'. 400 gpm, 50 rpms with no indications of wellbore instability. ***While washing stands out of hole, small amounts regular size cuttings coming across shakers.*** 2 generators online	3
CIRC	Circulate clean up cycles at the base of the curve as a precaution. Circulating @ 100 spm, 380 gpm, 50-60 rpms. while reciprocating the pipe. 1st BU returned: Only10% cuttings coverage on the shakers with very fine cuttings size. 2nd BU returned: Only 5-10% very fine cuttings with some medium sized cuttings. 3rd BU returned: Only 5% of very fine cuttings with very few medium sized cuttings. ***<10% shaker screen coverage with only a slight increase in size or amount of cuttings. Most all of the cuttings were coffee ground or smaller sized (1/16"-1/8") cuttings with a small amount of pea sized (1/4"-3/8") cuttings. Pumped a total of three bottoms ups***	4
TOOH_ELE V	Flow check (well static) pump dry pipe trip slug. TOOH f/ 9,300' t/ 2,620'. Monitor Returns over trip tank. Hole taking Proper fill. Hole appears to be clean with no indications of hole instability.	2.5
L/D BHA	L/D 5" D.P. f/ 2,620' t/ 92'. Monitor Returns over trip tank. Hole taking Proper fill.	4.5
L/D BHA	PJSM w/ HP, Data Drill, Leam and PNR Reps on Laying out BHA, Break and Lay out Production Directional assembly and Bit. Closed blind rams prior to breaking off bit.	0.5
SFTY	Clean and Clear rig floor.	0.5
WH	Remove and Inspect wearbushing. Witnessed by PNR Rep. No Evidence of unusual wear.	0.5
RU	PJSM with H&P rig crew & PNR representative over rigging up CRT. P/U & R/U H&P CRT & Casing equipment. Monitor wellbore pressure on superchoke. Set and Checked 2 point calibration after PU CRT.	2.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
CSG_W/O WASH	PJSM with H&P CRT Reps, H&P rig crew & PNR representative over making up 2 jt shoe track & running 5-1/2" Production casing. P/U & M/U 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 including top of short jt), 40' jnt, 9.5' pup, GeoDynamics time delay toe sleeve, 20' pup. Test floats - (good). Casing collar OD: 6 1/8" Elevator ID: 5 5/8" **Average ID of 10 Joints 5 1/2" 20# P-110 BTC Casing = 4.875".** **Closed Annular around casing @ 500 psi to verify proper closing in case of well control measures.**	1.5
CSG_W/O WASH	TIH w/ 5 1/2" 20# P110 BTC casing F/159' - 2,300' with CRT. Taking returns to trip tank, hole giving proper displacement roughly 12.5 bbl's per 10 joints ran. Torque = 12,500 ft/lbs to base of triangle. Break circ. every 40 jts. **Torque rings installed in all csg. 8,900 k minimum 14,500 max. Torque and chart all joints to 12,500 k. Thread rep and Torque turn on location.** **Had to Adjust TDS jacking bolts to allow slips to set.** **Had to Replace Csg Collar that was Damaged. Inspection of Tubulars and threads were good.** 2 Generators on line.	4.5

Report #: 21 Daily Operation: 6/12/2015 06:00 - 6/13/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR		AFE Number 035217	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
21	21	18,698.0	8,479.2	9.50	H & P, 606

Operations Summary

Run production csg f/ 2,300' t/ 15,500'

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 20.5 Day From Spud, 21 Total Days On Well, 28.75 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 - 100%

Time Log Summary

Operation	Com	Dur (hr)
CSG_W/O WASH	TIH w/ 5 1/2" 20# P110 BTC casing f/ 2,300' to 5,172' with CRT. Torque = 12,500 ft/lbs to base of triangle. Filling each joint w/ 9 stks. and breaking circulation every 40 jts. Taking returns to trip tank, hole returning correct displacement, averaging 12.5 bbl's every10 joints. ***Torque rings installed in all csg. 8,900 K min. 14,500 K max. Torque recording all joints to 12,500 K. Thread rep. and Torque/Turn on location.***	4.5
CIRC	Circulated BU @ 5,172'. 2685 strokes at 88 spm (8 BPM) with 380 psi. Full returns to surface.	0.5
CSG_W/O WASH	TIH w/ 5 1/2" 20# P110 BTC casing f/ 5,172' to 9,789' with CRT. Torque = 12,500 ft/lbs to base of triangle. Filling each joint w/ 9 stks. and breaking circulation every 40 jts. Taking returns to trip tank, hole returning correct displacement, averaging 12.5 bbl's every10 joints. ***Torque rings installed in all csg. 8,900 K min. 14,500 K max. Torque recording all joints to 12,500 K. Thread rep. and Torque/Turn on location.***	7
CIRC	Circulated BU @ 9,789'. 8340 strokes at 86 spm (8 BPM) with 600 psi. Full returns to surface. Removed 5 1/2" casing stripper after circulating bottoms up to install spiroglider centralizers as per the drilling procedure. Max. gas was 4511 units before switching the flow through the MGS. Max. gas while circulating through the MSG was 3008 units with no flare. No gas cut mud at the shakers. Mud Wt. checked at 9.4 ppg. Gas units dropped and leveled off at 100 units after bottoms up.	2
CSG_W/O WASH	TIH w/ 5 1/2" 20# P110 BTC casing f/ 9,789' to 14,468' with CRT. Torque = 12,500 ft/lbs to base of triangle. Filling each joint w/ 9 stks. and breaking circulation every 40 jts. Taking returns to trip tank, hole returning correct displacement, averaging 12.5 bbl's every10 joints. ***Torque rings installed in all csg. 8,900 K min. 14,500 K max. Torque recording all joints to 12,500 K. Thread rep. and Torque/Turn on location.*** 2 generators online	6.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
CIRC	Circulated BU @ 14,468'. 10,500 strokes at 86 spm (8 BPM) with 680 psi. Full returns to surface. Reinstalled Casing stripper prior to beginning circulation. Max. gas was 2603 units before switching the flow through the MGS. Max. gas while circulating through the MSG was 4754 units with 5-10' flare.MW @ shakers was 9.4 until BU @ 7,200 stks when MW reduced t/ 9.3 ppg, @ 8,800 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 w/ 5 1/2" 20# P110 BTC casing f/ 14,468' to 15,500' with CRT. Torque = 12,500 ft/lbs to base of triangle. Filling each joint w/ 9 stks. and breaking circulation every 40 jts. Taking returns to trip tank, hole returning correct displacement, averaging 12.5 bbl's every10 joints. ***Torque rings installed in all csg. 8,900 K min. 14,500 K max. Torque recording all joints to 12,500 K. Thread rep. and Torque/Turn on location.*** 2 generators online	1

Report #: 22 Daily Operation: 6/13/2015 06:00 - 6/14/2015 06:00

Job Category ORIG DRILLING		Primary Job Type ODR			AFE Number 035217	
Days From Spud (days) 22	Days on Location (days) 22	End Depth (ftKB) 18,698.0	End Depth (TVD) (ftKB) 8,479.2	Dens Last Mud (lb/gal) 9.50	Rig H & P, 606	

Operations Summary

Run 5.5" Production csg f/ 15,500 t/ 18,865, Circ. 1 STS volume, RU and Cement Csg. Install pack off, Nipple Down, install abandonment cap and test. No accidents or injuries.

Remarks

Rig (H&P 606) & Well Progress: 1.55 Rig Move Days, 21.5 Day From Spud, 22 Total Days On Well, 29.75 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 - 100%

Rig Released @ 06:00 am 6/14/15, FINAL DRILLING REPORT

Time Log Summary

Operation	Com	Dur (hr)
CSG_W/O WASH	TIH w/ 5 1/2" 20# P110 BTC casing f/ 15,500' to 18,609' with CRT. Torque = 12,500 ft/lbs to base of triangle. Filling each joint w/ 9 stks. and breaking circulation every 40 jts. Taking returns to trip tank, hole returning correct displacement, averaging 12.5 bbl's every10 joints. ***Torque rings installed in all csg. 8,900 K min. 14,500 K max. Torque recording all joints to 12,500 K. Thread rep. and Torque/Turn on location.***	5.25
CSG_WWA SH	Washed the casing down 76' f/ 18,609' to 18,685' with CRT. @ 86 spm (7.9 BPM) with 910 psi. Full returns to surface.	0.75
CIRC	Circulated surface to surface @ 18,685' at 86 spm (8 BPM) with 680 psi. (13,200 strokes total) Full returns to surface. ***With 4,100 strokes pumped, we had 4,996 units of gas. Mud flow was diverted to the MGS. Max. gas after diverting the flow to the MGS was 4,990 units with a 6-8' flare. Mud weight was gas cut to 9.2+ at 5,900 strokes. At 6,600 strokes mud weight was back up to 9.4+ in/out and the gas started falling off. At 10,500 strokes the flow was routed back down the flowline. The gas continued to drop back and leveled off at 300 units.*** Held PJSM with Schlumberger, H&P, Shield Tech, Seaboard and PNR Co. Rep on cementing the 5 1/2" casing.	2.5
CSG_W/O WASH	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. 1 generator online Top of F.Collar: 18,599' Shoe Depth: 18,684'	2

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
CMT	R/U cementing head and iron. Bottom plug loading operation was witnessed by PNR Co. Rep., 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: 160 BBL 412 Sks TXI at 11.5 PPG, (75 Lb/Sk of Blend) Yield 2.19 Ft ³ /Sk, Mix water 12.849 Gal/Sk. Tail: 503 BBL 1728 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 413 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 277 psi @ 8.0 bpm, Final lift pressure 1502 psi @ 3.6 bpm. Bump Plug with 1415 psi over final lifting pressure to 2917 psi @ 19:50 pm per Shield TechnologieToesleeve Rep. Held 10 min (per Shield Technologies Rep), bleed back 4.5 bbl, Floats held PSI into displacement- 40 BBL: 385 PSI @ 8.0 BPM, 100 BBL: 575 PSI @ 8 BPM, 150 BBL: 1091 PSI @ 6.6 BPM, 200 BBL: 1200 PSI @ 6.6 BPM, 250 BBL: 1330 PSI @ 8.6 BPM, 300 BBL: 1418 PSI @ 6.6 BPM, 350 BBL: 1500 PSI @ 6.4 BPM, 402 BBL: 1502 PSI @ 3.3 BPM. Toe Sleeve Actuation Pressures. Min. 8,142 psi Nom. 8,508 psi Max. 8,874 psi	4.5
RD	PJSM on Rigging down Cementers. Rig down Cement head and steel lines. Rig Down CRT and Casing slips.	1
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
RD	PJSM on Rigging down CRT. Rig Down CRT and Casing slips.	1
ND_BOPE	Flush stack, Choke line and Mud Delivery lines. Blow out same.	1
ND_BOPE	PJSM with HP, Battle and Pioneer rep. on nipping 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.** **Rig Released @ 06:00, 6/14/15. FINAL DRILLING REPORT.** 1 Generator on line	5

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

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
57	1	0.0			

Operations Summary

Plumb intermediate and surface line to surface.

Back fill cellars.

NU "B" Section and test.

NU lower frac stack.

WSI.

Remarks

Days: Joe Vickers

Days: Bryan Bussey

Time Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI.	0.5
WH/CELLAR	Plumb cellar surface and intermediate casings lines. Backfill cellar. NU "B" section. Test void 5000 PSI. Good Test. Test Casing Seal 7500 PSI. Good test	3
FRAC_STACK	NU Lower frac stack.	3.5
SHUT_IN	WSI.	17

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
58	2	0.0			ANDERSON PERFORATING INC, 1			

Operations Summary
 Run 4.625" GR/JB to 8680'.
 Run RCBL /GR / CCL fromn 8665' to surface, holding 1500 PSI on casing.
 TOC @ 4500'.
 WSI and secure.

Remarks
 Days: Joe Vickers
 Days: Bryan Bussey

Time Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI.	1
RURD	Rig up API Wireline and Globe Pump Truck.	0.75
WL_GR/JB	RIH with 4.625' gauge rig and junk basket to 8680' and POOH. Clean run. Test intermedate casing to 1500 PSI. Good Test.	1.25
SHUT_IN	WSI. Waiting on logging on 65H.	4
WL_CBL	RIH with RCBL/GR/CCL. Log from 8665' to surface, holding 1500 PSI on casing. TOC @ 4500'.	3.5
RURD	RD API Wireline and Globe Pump.	1
SHUT_IN	WSI.	12.5

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
59	3	0.0						

Operations Summary
 MIRU Raider Pumping.
 PSI intermediate to 1500 PSI.
 Open toe sleeve in 16 mins.
 Establish injection rate.
 Close well in.
 Wait on frac,

Remarks
 Days: Joe Vickers
 Days: Bryan Bussey

FTR: 45 BBL
 CR : 0 BBL
 LTR: 45 BBL

Time Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI.	1
RURD	MIRU Rader Pumping	0.75
PD_SLEEVE	Pressure intermediate casing to 1500 PSI. Tie on to production casing. Test lines 9500 PSI. Good test. Pressure casing to 7500 PSI. Hold for 15 mins. Increase pressure to 9500 PSI to open sleeve. Sleeve opened in 16 Min. Pressure fell from 9500 PSI to 4800 PSI. Pump 45 BBL @ 10 BPM @ 5960 PSI. ISIP - 4880 PSI 5 MIN- 2583 PSI 10 MIN- 2461 PSI 15 MIN- 2405 PSI Close Well in. Move over to 65H.	1.5
SHUT_IN	WSI. Waiting on frac.	20.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
62	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 ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
63	5	0.0			PIONEER PUMPING SERVICES, 6			

Operations Summary
 RU F2 flowback
 Finish RU containment
 Set water tanks/half tank
 PPS bring in Back side equipment to spot

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

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

 Working tanks:
 692, 529, 462, 458, 668

 Chemical tanks:
 696, 674

Time Log Summary

Operation	Com	Dur (hr)
SHUT_IN	WSI no activity.	2
LOCATION	RU F2 flowback to both wells. Set water tanks and half tank. Finish install on containment.	6.75
SHUT_IN	Well Shut In no activity	9
SAFETY	Safety Meeting	0.25
RURD	PPS bring in hydration unit and blender and other associated equipment for back side.	6

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

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

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964
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Days From Spud (days) 64	Days on Location (days) 6	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6
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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
 Days: Eric Wampler / Wendell Wiggins
 Nights: Noah Sherfield / TD Jones

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

Working tanks:
 692, 529, 462, 458, 668

Chemical tanks:
 696, 674

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

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

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964
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Days From Spud (days) 65	Days on Location (days) 7	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6
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Operations Summary
 WSI. Continue RU of PPS #6.
 PPS tested down lines to 9700 PSI.
 RU EPIC WL.
 Plug & Perf. Stg. 1 of 42.
 Issues w/ CCL logging tool.
 POOH w/ Carrier & setting tool.
 SD waiting on C-Pump seal at report time.

Remarks
 Downtime:
 PPS 2.5 hrs / Cum 2.5 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

Working tanks:
 692, 529, 462, 458, 668

Chemical tanks:
 696, 674

Time Log Summary

Operation	Com	Dur (hr)
SAFETY	PJSM	0.25
RURD	Continue RU PPS #6. Pressure test pump lines to 9700 psi, good test.	16.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary		
Operation	Com	Dur (hr)
WL_PERF	RU EPIC WL RIH to 18,525', tagged toe sleeve and got hung up in sleeve. Unable to surge tool free. Phone completions Supt. and Engineer. Set CFP @ 18,525' as per engineer. Moved stg. 1 first shot up hole 7 ft. Perf Stage 1 of 42 at 18,515' - 18,517', 18,462' - 18,464', 18,402' - 18,404', 18,342' - 18,344'. WL having issues CCL logging tool, POOH w/ CCL/ carrier and setting tool. TBP: 728 BBL. NOTE: Unable to CCL log well to TOH. Will log well after stage 2 Plug & Perf.	4
RURD	Waiting on WL to re-head and RU on 65H well before starting frac on 64H.	1
RURD	SD for pump maintenance. PPS RU 11 pumps, lost 2 pumps before starting frac ops. One pump has PTO issues, the other one can not open isolation valve. having problems starting third pump. Was able to start third pump. Blender has bad rear seal on C-Pump, waiting on new C-Pump at report time.	2.5

Report #: 8 Daily Operation: 7/27/2015 06:00 - 7/28/2015 06:00						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6	
66	8	0.0				
Operations Summary Frac stage 1 of 42. Perf stage 2 of 42. Performing Pump Maintenance at 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	PJSM	0.25
PAD	Blender has bad rear seal on C-Pump, waiting on new C-Pump.	4.25
TEST_PRI ME	Prime and tested lines to 9,600 psi. Set pop offs @ 9,600 psi.	0.75
STIM	While pumping acid we had to SD due to pop off. We replaced pop off and Frac Stage #1 PTD.	3.5
WL_PERF	Perf stage #2. Set plug @ 18,299' WLM'. POOH running CCL log.	2.75
PAD	WSI waiting on frac and wireline ops on the 65H.	10
STIM	SD Performing pump maintenance. Replacing valves/seats, D-Rings, packing, etc.	2.5

Report #: 9 Daily Operation: 7/28/2015 06:00 - 7/29/2015 06:00						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6	
67	9	0.0				
Operations Summary Frac Stg. 2 & 3 of 42. Plug & Perf Stg. 3 & 4 of 42.						
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	SD Performing pump maintenance. Replacing valves/seats, D-Rings, packing, etc.	1
STIM	Frac stage 2 of 42 PTD.	3
WL_PERF	Perf and plug stage #3 of 42. Plug set @ 18,059' WLM'.	3
PAD	WSI waiting on frac and wireline ops on the 65H.	2.5
STIM	SD -Down due to pop off washing out and waiting on new pop-off to arrive on location. Fracing stage #3	4
STIM	Frac stage 3 of 42. Unable to continue frac due too well pressured out. Had problems getting back into formation. Attempting rate increase, PPS pumps start going in-and-out of lockup and lost one pump while attempting rate increase. Pumps finally lined out before well pressured out at 57 bpm @ 9232 psi. Ramped 40/70 sand from .25 - .75 ppa, 19,196 lbs. total sand in formation. NOTE: As per Engineer, pump an additional 120,000 lbs of 40/70 sand into Stg. 4 TSIF. Increasing TSIF from 240,002 to 360,002.	2
WL_PERF	Plug & perf stage 4 as design. Set CFP @ 1,819' WLM.	2.5
PAD	WSI waiting on frac and wireline ops on the 65H.	6

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
68	10	0.0			PIONEER PUMPING SERVICES, 6			

Operations Summary
Frac Stg. 4
Wait on coil at 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	PJSM discussed Job scope and Heat issues	0.5
TEST_LINE	During prime up pressure test Hydration Unit developed mechanical issue with batteries	4.25
STIM	Started pumping stg 4 had issues with pumps going in and out of lockup causing pressure spike fixed issue and continued on. During second sand ramp @ the start of .5 ppg lost hydration unit flushed well and shut down for repairs.	7
STIM	Tried to get back in to well after repairs made but pressured out at 20bpm. Reduce rate between 2.5 - 5bpm per engineer and fill wellbore with FR total 450 bbls pumped. Shut down and shut in well and move on to stage 4 on 65H.	2
PAD	Waiting on frac stage 4 on 65H.	3.75
STIM	Attempted to frac stage 4 again and pressured out immediately. Tried to flow back well and it died. Shut in and wait on coil tubing unit. 20% sand in formation.	1
SHUT_IN	Waiting on coil tubing to arrive to make clean out run and perforate.	5.5

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
69	11	0.0			PIONEER PUMPING SERVICES, 6			

Operations Summary
Wait on coil at report time.
MIRU RedZone CTU.
TIH on cleanout run.
POOH.
TIH to perforate.
POOH.
RD CTU and MOL

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

Time Log Summary

Operation	Com	Dur (hr)
SHUT_IN	Waiting on coil tubing to arrive to make clean out run and perforate.	3.5
SAFETY	Safety meeting to discuss JSA and jobe scope with Red Zone CT and PPS	0.5
RURD	Red Zone CT begin RU for clean out run// BHA consists of (top down) Coil Connector OD 3.12-ID 1.37-.85 Length / Dual BPV OD 2.88 X ID 1 X 1.21 Length / Jars OD 2.88 X ID 1 X 4.70 Length / Disconnect OD 2.88 X ID .813 X 2.13 Length / Screen OD 2.88 X 2.45 Length / Hydropull OD 2.88 X 2.70 Length / Crossover OD 3.12 X .58 Length / Crossover OD 3.12 X .88 Length / Motor OD 3.12 X 11.74 Length / Stator / Crossover OD 3.75 X 1.16 Length / JZ Rockbit OD 4.625 X .5 Length for a total BHA length of 28.9	3
TEST_EQU IP	CT is function testing and pressure testing there equipment and lines	1
CT_MILL	CT RIH for clean out run stopped @ 17600' pumped a sweep.	2.5
CT_POOH	POOH with CT.	3
CT_TCP	TIH with CT TO 17,600'. Pull up hole on depth and TCP stage 5 of 42 as designed.	4.5
CT_POOH	POOH with CT.	4
RURD	Blow down reel and RD CTU at report time.	2

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
70	12	0.0			PIONEER PUMPING SERVICES, 6			

Operations Summary
RD CTU.
Frac Stg. 5-7 of 42.
Plug & Perf Stg. 6-7 of 42.

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 discussed job scope and the need to keep hydrated	0.5
RURD	Continue to RD CT//PPS RU to Frac stg 5	3.5
TEST_LINE	PPS prime up pressure test and set popoffs	1
STIM	Frac stg 5 after first sweep hit perfs pressure climbed to 9000 psi and dropped rate to maintain pressure below limits//Talked to engineer and decided to try linear gell and start sand @ lower concentration got 49,096 lbs of sand put away// Well continued to pressure up so decided to cut stage short and perf for stg 6	4.25
WL_PERF	Perfed stg 6. Moved CFP down 5 ' to 17344 ' due to collar.	2
PAD	Waiting on frac ops on 65H	3
STIM	Frac stage 6 of 42. New design per engineer.	2.25
WL_PERF	Perf and plug stage #7 of 42. Plug set @ 17,099' WLM'.	2
PAD	Waiting on frac ops on 65H	2.5
STIM	Frac stage 7 of 42.	2.5
WL_PERF	Perf stage #8 at report time.	0.5

Report #: 13 Daily Operation: 8/1/2015 06:00 - 8/2/2015 06:00						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6	
71	13	0.0				
Operations Summary Frac Stg. 8-10 of 42. Plug & Perf Stg. 8-11 of 42.						
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 discussed job scope and the need to keep hydrated	0.5
WL_PERF	Perf stg 8 per design. Set plug @ 16,859' WLM'.	1.5
PAD	Waiting on frac ops of th 65H	2
STIM	Frac stage # 8. PTD	2.5
WL_PERF	Perf stage #9. to design. Set plug @ 16,619' WLM'.	2
PAD	Waiting on frac ops of th 65H	1.5
TEST_LINE	PPS prime up pressure test	1
STIM	Frac stage # 9	2
WL_PERF	Perf stage #10. to design. Set plug @ 16,379' WLM'.	2
PAD	Waiting on frac ops of th 65H	3
STIM	Frac stage # 10	2
WL_PERF	Perf stage #11. to design. Set plug @ 16,139' WLM'.	2.5
PAD	Waiting on frac ops of th 65H	1.5

Report #: 14 Daily Operation: 8/2/2015 06:00 - 8/3/2015 06:00						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6	
72	14	0.0				
Operations Summary Frac Stg.11 Plug & Perf Stg. 12 of 42. Swap out Hydration unit at 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	PJSM	0.25
STIM	Frac stage # 11 of 42. PTD	2.25
WL_PERF	Perf stage # 12 of 42. Set plug @ 15899' WLM'	1.5
PAD	Waiting on frac ops of the 65H. Repaired blender.	11

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
SHUT_IN	Alternator went bad on Hydration unit causing electrical and communication issues. Spare Hydration unit is staged nearby and will be swapped out. While trying to rig down the Hydration unit, PPS crews were back flushing the hoses so they could break them and replace the Hydration unit. When crews started breaking the hoses loose from the unit, they noticed that acid was still in the lines. They then determined that the 8" master valve and the 4" secondary valve were both leaking and would not properly close on the acid tank. A small spill was in the containment around the acid tank. Both company men were notified and both went with the PPS supervisor and made a plan. Crews were sent to a nearby frac to obtain more soda ash, and soda ash was also ordered from Midland. 2 trucks were being dispatched to empty acid tank so that appropriate action could be taken to repair tank/valves.	9

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

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
73	15	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary

Swap out Hydration unit.
Wait on, and swap out blender.
Prime up/pressure test at 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	PJSM talked about hydartion and enviromental issues	0.5
SHUT_IN	Waiting on trucks to offload acid tank to fix valves and flush out lines to then swap out hydration unit. Etech to work on comunication problems. Could not resolve electrical/communication problem with blender so the decision was made to swap blenders out.	20.5
RURD	Blender arrived at 3:00 and RU begin.	1.5
STIM	Prime up and pressure test at report time.	1.5

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

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
74	16	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary

Frac Stg. 12 - 14 of 42.
Plug & Perf Stg. 13 - 15 of 42.

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 discused jobe scope and hazzards of location with new crew	0.5
PAD	PPS is working on LA's on the hydration unit and blender// valves on blender are actuating in reverese PPS is working on problem	2
STIM	Frac stage # 12 of 42.	2.5
WL_PERF	Perf stg 13 per design	2.5
PAD	Waiting on frac ops of the 65H.	6.25
STIM	Frac stage # 13 of 42.	2.25
WL_PERF	Perf stg 14 per design	2.5
PAD	Waiting on frac ops of the 65H. FMC grease frac stack.	2.25
STIM	Attempt to Frac stage # 14 of 42. Pressured out on .50# sand. This was first stage on 30/50. Called stage per engineer. Will continue to pump 40/70 sand for the remaining stages.	1.25
WL_PERF	Perf stg 15 per design. Did not set plug.	2

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

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
75	17	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary

Frac Stg. 15-16-17 of 42.
Plug & Perf Stg. 16-17-18 of 42.

Remarks

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

Time Log Summary

Operation	Com	Dur (hr)
PAD	Wait on frac ops on the #65H.	2.75
PAD	Had to wait on sand truck due to schedule change.	1.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
STIM	Frac Stage #15 Per schedule from Conner Wood.	2
WL_PERF	Perforate and set plug per schedule for stage #16.	1.75
PAD	Waiting on ops on the #65.	3.75
STIM	Frac Stage #16 per design	3
WL_PERF	Perf stg #17 per design	2.25
PAD	Waiting on ops on the #65.	1.75
TEST_LINE	PPS prime up pressure test	1
STIM	Frac stg 17 per design	2
WL_PERF	Perf stg 18 moved CFP due to collar refer to other in hole	2.25

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

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days) 76	Days on Location (days) 18	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6

Operations Summary

Frac Stg. 18-19-20 of 42.
Plug & Perf Stg. 19-20-21 of 42.

Remarks

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

Time Log Summary

Operation	Com	Dur (hr)
PAD	Wait on frac ops on the 65H. FMC grease wellheads.	3
STIM	Frac Stage #18.	2
WL_PERF	Set plug and perf stage #19 per design.	1.75
PAD	Wait on ops on the #65.	1
TEST_LINE	PPS prime up pressure test	1
STIM	Frac stg 19 shut down during pad due to hydartion unit loosinf c pump// made repairs and pumped per design	3.5
WL_PERF	Perf stg 20 per design	2
PAD	Wait on ops on the #65.	0.5
ZIP_MAINT	PPS doing maintance on pumps before starting stage	1.5
TEST_PRI ME	PPS prime up pressure test	1.25
STIM	Frac stg 20 per design	2
WL_PERF	Perf stg 21 per design	2
PAD	Wait on ops on the #65.	1
TEST_PRI ME	PPS prime up pressure test @ time of report	1.5

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

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days) 77	Days on Location (days) 19	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6

Operations Summary

Frac Stg. 21-22-23 of 42.
Plug & Perf Stg. 22-RePerf stg 22-23 of 42.

Reperfed stg 22 per engineer// Abandoned stg 23 per engineer due to pressure 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)
PAD	Wait on frac ops on the #65	0.5
STIM	Frac stage #21 per design.	2
WL_PERF	Perforate stage #22 per design.	2
PAD	Wait on frac ops on the #65.	3
PAD	Working on pumps and blender.	2
WL_PERF	Attempt to pump stage #22. Tried to pump into well could not get rate, called engineer and decided to reperforate stage.	1.25

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary		
Operation	Com	Dur (hr)
WL_PERF	Reperforate Stage #22 per engineer.// Perf as follows 13400-13042--13370-13372--13340-13342--13310-13312	2.75
TEST_LINE	PPS prime up pressure test	0.75
STIM	Attempted to pump stg #22 again got to 50 bpm @ 8335 psi//Talked to engineer and decision was made to start sand @ .15 ppg pumped 3516 lbs and psi spiked// Flushed and moved to next stage per engineer	1
WL_PERF	Perf stg #23 per design	2
PAD	Wait on frac ops on the #65.	1
ZIP_MAINT	PPS doing pump maintenance	1.75
TEST_PRI ME	PPS prime up pressure test	1
STIM	Attempted frac stg #23 rate @ 40 bpm pressure @ 9150 psi called engineer and was advised to finish pad and shut down abandon stage and perf with no plug for stage 24	1
WL_PERF	Perf stg #24 and did not set CFP per engineer @ time of report	2

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

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
78	20	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stg. 24-25-26 of 42.
Plug & Perf Stg. 25-26-27 of 42.

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

Time Log Summary		
Operation	Com	Dur (hr)
PAD	Wait for frac ops on #65.	2.75
STIM	Frac stage #24 per design, plus ran an additional 60K of 40/70 per engineer.	2.25
WL_PERF	Perforate Stg #25 per design.	2
PAD	Wait for frac ops on #65.	2
ZIP_MAINT	PPS doing maintenace on pumps	2.5
TEST_PRI ME	PPS prime up pressure test	1.5
STIM	Frac stage #25 per design, plus ran an additional 75K of 40/70 per engineer.	2.25
WL_PERF	Perf stg 26 per design	2
TEST_PRI ME	PPS prime up pressure test	1.25
STIM	Frac stage #26 per design, plus ran an additional 75K of 40/70 per engineer.	2.5
WL_PERF	Perf stg 27 per design	2
PAD	Wait for frac ops on #65 @ time of report	1

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

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
79	21	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stg. 27-28-29 of 42.
Plug & Perf Stg. 28-29-30 of 42.

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

Time Log Summary		
Operation	Com	Dur (hr)
PAD	Wait on frac ops on the #65.	1.75
STIM	Frac stage #27 not to design. Had to shutdown, and restart the stage due to iron failure. Also pumped an additional 75K of 40/70 sand per engineer.	4.5
WL_PERF	Perforate stage #28 not to design, moved top gun.	1.75
PAD	Wait on frac ops on the #65.	1.75
TEST_PRI ME	PPS prime up pressure test	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary		
Operation	Com	Dur (hr)
STIM	Frac stage #28 per design, plus ran an additional 60K of 40/70 per engineer.	2.5
WL_PERF	Perf stg #29 per design	2
PAD	Wait on frac ops on the #65.	1.25
TEST_PRI ME	PPS prime up pressure test	1
STIM	Frac stg 29 as desined	3
WL_PERF	Perf stg 30 as designed	2
PAD	Wait on frac ops on the #65.	1.5

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

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 035063;035964
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Days From Spud (days) 80	Days on Location (days) 22	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6
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Operations Summary
Frac Stg. 30-31 of 42.
Plug & Perf Stg. 31 of 42.

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

Time Log Summary		
Operation	Com	Dur (hr)
PAD	Wait on frac ops on the #65	5
PAD	Down working on equipment and chemical issues.	7.5
TEST_PRI ME	PPS prime up pressure test	1
STIM	Frac stg #30 per design	2
WL_PERF	Perf stg #31 moved CFP due to collar moved from 11339' to 11345'	2
PAD	Wait on frac ops on the #65	2.5
TEST_PRI ME	PPS prime up pressure test	1
STIM	Frac stg #31 per design	2
WL_PERF	Perf stg #32 @ time of report	1

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

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 035063;035964
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Days From Spud (days) 81	Days on Location (days) 23	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6
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Operations Summary
Frac Stg. 32 thru33 of 42.
Plug & Perf Stg. 32 thru34 of 42.

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 Stg #32 per design.	1
PAD	Wait on frac ops on the #65.	4.75
STIM	Frac stage #32 per design.	2
WL_PERF	Perf Stage #33 per Design	1.25
PAD	Wait on frac ops on the #65.	2.5
TEST_PRI ME	PPS prime up pressure test	1
STIM	Started stg 33// During pad discovered leak on well head under WL flange// Shut down and called FMC to make repairs//Restarted stg finished pad out started sand @ .15 ppg placed 2031 lbs of 40/70 in well bore and formation locked up// Flowed 350 bbls back and reflushed// Talked to engineer and decided to perf stg 34 no plug and place extra sand on next frac	9
WL_PERF	Perf stg #34 no CFP per engineer	1.5
PAD	Wait on frac ops on the #65.	1

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
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Days From Spud (days) 82	Days on Location (days) 24	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6
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Operations Summary
Frac Stg. 34 - 36 of 42. Plug & Perf Stg. 35 - 37 of 42.

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

Time Log Summary

Operation	Com	Dur (hr)
PAD	Wait on frac ops on the #65.	0.5
IRON	Swing iron over from 2-20 #65H	0.25
TEST_LINE	Prime up and pressure test frac equipment, work on pumps. Set POV's.	1.25
STIM	Frac Stage 34 of 42. Extra sand was pumped on stage to make up for lack of sand put in the previous stage.	2.25
WL_PERF	Perf Stage #35 per Design	1.75
PAD	Wait on frac ops on the #65.	2.25
IRON	Swing iron over from 2-20 #65H	0.25
TEST_LINE	Prime up and pressure test frac equipment. PPS changing out FR transport and reload chemicals.	1.5
STIM	Frac Stage 35 of 42. PTD	2.25
WL_PERF	Perf Stage #36 per Design	1.75
PAD	Wait on frac ops on the #65.	2.75
STIM	Frac stage #36 per design.	2
WL_PERF	Perforate stage #37 not per design.	1.5
PAD	Wait on frac ops on the #65.	3.25
STIM	Fracing Stage #37 at report time.	0.5

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
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Days From Spud (days) 83	Days on Location (days) 25	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig PIONEER PUMPING SERVICES, 6
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Operations Summary
Frac Stg. 37- 40 of 42. Plug & Perf Stg. 38-41 of 42.

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 37 of 42. Pumped to design.	1.5
WL_PERF	Perforate stage #38 per design.	1.5
PAD	Waiting on frac ops on 65H	2.25
IRON	Swing iron from 2-20 #65H	0.5
TEST_LINE	Prime up and pressure test frac equipment.	0.25
STIM	Frac Stage 38 of 42. Pumped to design.	2
WL_PERF	Perforate stage #39 per design.	1.5
PAD	Waiting on frac ops on 65H	2.75
STIM	Frac stage #39 of 42 as designed.	2
WL_PERF	Perf stage #40 of 42 as designed.	1.5
PAD	Waiting on frac ops on 65H	3.25
STIM	Stage #40 of 42. Breakdown pressure 6919 psi. Saw acid clear, Pad pressure 8765psi @ 67bpm. Talked to engineer, send 1500# slug at .25 ppg. When sand hit, pressured out. Cut sand. Attempted flush, 8600psi @ 6BPM at end. Flowed back 250 bbls @900 psi open manifold. Able to get back in at 5600 psi@80 bpm. Pumped stage designed. On 2 ppg, pressure began rising rapidly, cut sand and Flushed. 94 pct sand in.	3.25
WL_PERF	Perf Stage #41 of 42	1.75

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
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Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
84	26	0.0			PIONEER PUMPING SERVICES, 6

Operations Summary
Frac Stg. 41- 42 of 42. Plug & Perf Stg. 42 of 42. RDMO WL and Pumpdown. Rig down Frac

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

Time Log Summary

Operation	Com	Dur (hr)
PAD	Waiting on frac ops on 65H	0.83
IRON	Swing iron over from 2-20 #65H	0.42
TEST_LINE	Prime up and pressure test frac equipment. Set POV's	1.25
FRAC_STA C	Frac Stage 41 of 42. Pumped as designed.	2
WL_PERF	Perf Stage 42 of 42 as designed.	2
TEST_LINE	Prime and pressure test.	0.25
STIM	Frac Stage 42 of 42. Pumped as designed.	2.25
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 ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
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Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
85	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 ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
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Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
86	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	WSI awaiting coil tubing unit.	8

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
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Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
87	29	0.0			CONQUEST COMPLETIN SERVICES, CTU#4

Operations Summary
WSI waiting on coil unit,
Rig up CTU, BHA, Pressure test.RIH Drill CFP's #42--35. Average drill time 15 minutes.

Remarks
Pioneer Frac Tanks on Location: 252, 883, 694, 362
BHA#1- Overall length 33.47ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor.
Roll Tarp Box #2038 --4500 #'s sand recovered

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary

Operation	Com	Dur (hr)
SHUT_IN	Well shut in waiting on coil unit to AOL.	4
RURD	Express transfer on location insure all transfer equipment is operational and check lines for leaks. Renegade backhoe on location to clean up sand left around silo's and repair one spot at well head.	1
RURD	Austin Chalk containment on location to set duck ponds for coil unit and support equipment.	1.45
RURD	Move in and rig up mixing plant, fluid pump, N2 unit and crane. Waiting on welder to arrive and install coil connector.	2.45
RURD	Move coil unit on location and complete RU of coil package and support equipment.	3.1
RURD	Continue rig up coil	0.5
CT_BHA	Pull test weld on connector to 35k#s. Pressure test weld on connector to 5k PSI. Make up BHA#1. Function test motor. Good.	0.75
RURD	NU to well.	0.5
WH/CELLAR	Replace outside flange on wing valve of B-Section.	0.233
TEST_WH	Pressure test pump iron to 7k psi. Pressure test Stack and manifolds to 5k psi. Leaks on flowback. Spool on top of flow cross and Superloop(downstream of chokes).	1.86
CT_RIH	Open well. RIH> Pump 1 bpm @ 2000 psi./Return 1 bpm@1800 psi.	1.083
CT_RIH	At 7901' check weight. Raise pump rate to 3.5 bpm@3900 psi. Return 3.8 bpm@2000 psi. RIH to tag and drill CFP #42.	0.35
CT_DOP	Tag CFP #42 @ 8690 ft CTM. Magnum Plug W/L set at 6399 ft. Drill in 7 minutes. Sending 5 bbl gel sweeps every 30 minutes.	0.117
CT_RIH	Wash to CFP #41.	0.983
CT_DOP	Tag CFP #41 @ 8920 ft CTM. W/L Set Magnum Plug @ 8949 ft. Drill in 20 minutes. Wash to CFP #40	0.333
CT_RIH	Wash to CFP #40. 3.5 bpm @ 3900 psi/Return 3.75 bpm @ 1900 psi.	0.717
CT_DOP	Tag CFP #40 @ 9180 ft CTM. W/L set Magnum plug @ 9182 ft. Drill in 7 minutes. Pumping 3.5 bpm @ 4000 psi. Return 3.75 bpm @ 1500 psi. Small plug parts, light sand in returns. Small flare of gas (2-3 ft). Send 10 bbl sweep. Wash to CFP#39.	0.117
CT_RIH	Wash to CFP #39.	0.733
CT_DOP	Tag CFP #39 @ 9396 ft CTM. W/L Set Magnum plug @ 9423 ft. Drill in 17 minutes. Send 5 bbl gel sweep. Light sand and small plug parts in returns. Show of gas at flare. Pump 3.5 bpm@4000 psi. Return 3.75 bpm@ 1500 psi.	0.283
CT_RIH	Wash to CFP #38.	0.55
CT_DOP	Tag CFP #38 @9635 ft CTM. Wireline set Magnum plug@ 9659 ft. Drill in 16 minutes. Pump 3.5 bpm@4000 psi. Return 3.75 bpm@ 1625 psi. Light sand, small plug parts in returns. Small flare. Send 5 bbl gel sweep.	0.267
CT_RIH	Wash to CFP # 37.	0.35
CT_DOP	Tag CFP # 37 @ 9874 ft CTM. Wireline set Magnum plug @ 9899 ft. Drill in 18 minutes. Pumping 3.5 @ 4100 psi. Return 3.75 bpm @ 1600 psi. Send 10 bbl gel sweep. Light sand and small plug parts in returns.	0.3
CT_RIH	Wash to CFP #36.	0.583
CT_DOP	Tag CFP # 36 @ 10,132 ft CTM. Wireline set Magnum plug @ 10,139 ft. Drill in 18minutes. Pumping 3.5 bpm @ 4100 psi. Return 3.75 bpm @ 1600 psi. Light sand and plug parts in returns. Small flare. Send 5 bbl gel sweep.	0.3
CT_RIH	Wash to CFP # 35.	0.583
CT_DOP	Tag CFP #35 @ 10365 ft CTM. Wireline set Magnum Plug @ 10379 ft. Pumping 3.5 @ 4100 psi. Return 3.75 bpm @ 1600PSI. Drill out plug in 14 minutes.	0.517

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

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 035063;035964
Days From Spud (days) 88	Days on Location (days) 30	End Depth (ftKB) 0.0
End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig CONQUEST COMPLETIN SERVICES, CTU#4

Operations Summary

Drill CFP's #33 thru #30
POOH to check BHA
Change out BHA
Drill CFP's #29 thru #17

Remarks

Pioneer Frac Tanks on Location: 252, 883, 694, 362
BHA#2- Overall length 33.47ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor.
Roll Tarp Box #2038 -- 12000 total #'s sand
Roll Tarp Box #2042(in use)--5000 #'s sand

Did not run CFP's #34, #24, #15 or #5 during frac

Time Log Summary

Operation	Com	Dur (hr)
CT_RIH	CFP #34 was not set during frac. Wash to CFP #33. No tag Plug #33 send 5 BBL sweep, wash down to #32	1.08
CT_DOP	Tag CFP # 32 @ 11,096 ft CTM. Wireline set Magnum plug @ 11,099 ft. Drill in 15 minutes. Pumping 3.5 bpm @ 4200 psi. Return 3.75 bpm @ 1700 psi. Medium sand and plug parts in returns. Small flare. Send 5 bbl gel sweep.	0.25
CT_DOP	Tag CFP # 31 @ 11,360 ft CTM. Wireline set Magnum plug @ 11,345 ft. Drill in 11 minutes. Pumping 3.5 bpm @ 4200 psi. Return 3.75 bpm @ 1700 psi. Light sand and plug parts in returns. Small flare. Send 5 bbl gel sweep.	0.19
CT_RIH	Wash to CFP #31	0.66

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary		
Operation	Com	Dur (hr)
CT_TRIP	Wash to CFP #30	0.41
CT_DOP	Tag CFP # 30 @ 11,579 ft CTM. Wireline set Magnum plug @ 11,579 ft. Drill in 10 minutes. Pumping 3.5 bpm @ 4200 psi. Return 3.75 bpm @ 1700 psi. Light sand and plug parts in returns. Small flare. Send 5 bbl gel sweep.	0.17
CT_RIH	Wash to CFP #29	0.63
CT_DOP	Tag CFP # 30 @ 11,803 ft CTM. Wireline set Magnum plug @ 11,830 ft. Pumping 3.5 bpm @ 3800 psi. Return 3.75 bpm @ 1700 psi. Did not see any differential PSI or hydro pull action. PU 30' and worked back down tag plug on differential or hydro pull action. Set on plug 15 minutes was not drilling off. Made decision to pull out of hole and check BHA.	0.56
CT_POOH	Pump 20/10/20 sweep start out of hole with BHA, pump 10 BBL sweep at heel.	3.218
CT_BHA	OOH with BHA, ND injector flange and lower end of lubricator into cellar, bring pump on line 3.5 BPM, hydro pull not functioning. Break down BHA and replace Tools. Function test good test. NU injector head and test to 8500 PSI good test. Equalize 1800 PSI and open well.	2.5
CT_RIH	RIH with BHA #2 to CFP #29.	1.41
CT_DOP	Tag CFP # 29 @ 11,808 ft CTM. Wireline set Magnum plug @ 11,830 ft. Drill in 13 minutes. Pumping 3.5 bpm @ 3700 psi. Return 3.75 bpm @ 1500 psi. Light sand and plug parts in returns. Small flare. Send 5 bbl gel sweep.	0.21
CT_RIH	RIH and tag CFP #28	0.3
CT_DOP	Tag CFP # 28 @ 12,034 ft CTM. Wireline set Magnum plug @ 12,059 ft. Drill in 25 minutes. Pumping 3.5 bpm @ 3700 psi. Return 3.75 bpm @ 1500 psi. Light sand and plug parts in returns. Small flare. Send 5 bbl gel sweep.	0.42
CT_RIH	Wash to CFP # 27.	1.767
CT_DOP	Tag CFP #27 @ 12274 ft CTM. Wireline set Magnum plug @ 12299 ft. Drill in 21 minutes. Pumping 3.75 bpm @ 3500 psi. Return 4 bpm @ 1500 psi.	0.35
CT_RIH	Wash to CFP # 26.	1.017
CT_DOP	Tag CFP # 26 @ 12532 ft CTM. Wireline set Magnum plug @ 12539 ft. Drill in 46 minutes. Seems like not getting weight on bit. Pumping 3.75 bpm @ 3500 psi. Return 4 bpm @ 1500 psi. Light sand and plug parts in returns. Small flare.	0.767
CT_RIH	After plug #26 drilled up, began seeing Tempress action at surface and able to push better in between plugs. Wash to CFP # 25.	0.617
CT_DOP	Tag CFP # 25 @ 12772 ft CTM. Wireline set Magnum plug set @ 12779 ft. Drill in 10 minutes. 3.75bpm @ 3500 psi. Return 4 bpm @ 1500 psi. Light sand and plug parts in returns.	0.167
CT_RIH	Did not run CFP #24. Wash To CFP #23.	0.9
CT_DOP	Tag CFP # 23 @ 13229 ft CTM. Wireline set Magnum plug @ 13259 ft. Drill in 10 minutes. 3.75 bpm @ 3500 psi / Return 4 bpm @ 1500 psi.	0.167
CT_RIH	Wash to CFP # 22.	0.45
CT_DOP	Tag CFP # 22 @ 13471 ft CTM. Wireline set Magnum plug @ 13499 ft. Drill in 11 minutes. Pump 3.75 bpm @ 3500 psi. Return 4 bpm @ 1500 psi. Light sand and plug parts in returns.	0.183
CT_RIH	Wash to CFP #21.	0.567
CT_DOP	Tag CFP # 21 @ 13709 ft CTM. Wireline set Magnum plug @ 13739 ft. Drill in 19 minutes. Pump 3.75 bpm @ 4000 psi / Return 4 bpm @ 1500 psi. Light sand and plug parts in returns.	0.317
CT_RIH	Wash to CFP # 20.	0.5
CT_DOP	Tag CFP # 20 @ 13972 ft CTM. Wireline set Magnum plug @ 13979 ft. Drill in 16 minutes. Pump 3.75 bpm @ 4000 psi / Return 4 bpm @ 1400 psi. Light sand and plug parts in returns.	0.267
CT_RIH	Wash to CFP #19.	0.583
CT_DOP	Tag CFP # 19 @ 14216 ft CTM. Wireline set Magnum plug @ 14226 ft. Drill in 10 minutes. Pump 3.75 bpm @ 3700 psi / Return 4 bpm @ 1400 psi. Light sand and plug parts in returns.	0.167
CT_RIH	Wash to CFP # 18.	0.783
CT_DOP	Tag CFP # 18 @ 14440 ft CTM. Wireline set Magnum plug @ 14470 ft. Drill in 14 minutes. Pump 3.75 bpm @ 3700 psi / Return 4 bpm @ 1400 psi. Light sand and plug parts in returns.	0.233
CT_RIH	Wash to CFP #17	0.533
CT_DOP	Tag CFP # 17 @ 14668 ft CTM. Wireline set Magnum plug @ 14699 ft. Drill in 12 minutes. Pump 3.75 bpm @ 3700 psi / Return 4 bpm @ 1400 psi. Light sand and plug parts in returns.	0.2
CT_RIH	Wash to CFP # 16	0.8
CT_DOP	Tag CFP # 16 @ 14909 ft CTM. Wireline set Magnum plug @ 14939 ft. Drilling at report time. Pump 3.75 bpm @ 4000 psi / Return 4 bpm @ 1400 psi. Light sand and plug parts in returns.	0.667

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

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

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964
Days From Spud (days) 89	Days on Location (days) 31	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig CONQUEST COMPLETIN SERVICES, CTU#4

Operations Summary
 Drill CFP's #16 thru #1
 Open PBL pumps sweeps
 Close PBL pump sweep start out of hole.
 Friction increasing after CFP #8.

Remarks
 Pioneer Frac Tanks on Location: 252, 883, 694, 362
 BHA#2- Overall length 33.47ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor.
 Roll Tarp Box #2038 -- 12000 total #'s sand
 Roll Tarp Box #2042 -- 25,000 total #'s sand

Did not run CFP's #34, #24, #15 or #5 during frac

Time Log Summary

Operation	Com	Dur (hr)
CT_DOP	Tag CFP # 16 @ 14,909 ft CTM. Wireline set Magnum plug @ 14,939 ft. Drill in 12 minutes. Pumping 3.75 bpm @ 4000 psi. Returns 4 bpm @ 1700 psi. Medium sand and plug parts in returns. Small flare. Send 5 bbl gel sweep.	0.12
CT_RIH	Did not run CFP #15. Wash to Plug #14.	0.43
CT_DOP	Tag CFP # 14 @ 15,394 ft CTM. Wireline set Magnum plug @ 15,424 ft. Drill plug in 13 minutes.Pump 3.75 bpm @ 4000 psi//Return 4 bpm @ 1400 psi. Light sand and plug parts in returns.	0.22
CT_RIH	Wash to PCFP #13.	0.6
CT_DOP	Tag CFP # 13 @ 15,630 ft CTM. Wireline set Magnum plug @ 15,659 ft. Drill plug in 15 minutes.Pump 3.75 bpm @ 4100 psi//Return 4 bpm @ 1400 psi. Light sand and plug parts in returns.	0.25
CT_RIH	Wash to CFP #12	0.85
CT_DOP	Tag CFP # 12 @ 15,864 ft CTM. Wireline set Magnum plug @ 15,899 ft. Drill plug in 11 minutes.Pump 3.8 bpm @ 4300 psi//Return 4 bpm @ 1500 psi. Light sand and plug parts in returns.	0.18
CT_RIH	Wash to CFP #11.	0.68
CT_DOP	Tag CFP # 11 @ 16,111 ft CTM. Wireline set Magnum plug @ 16,139 ft. Drill plug in 16 minutes.Pump 3.75 bpm @ 4300 psi//Return 4 bpm @ 1500 psi. Light sand and plug parts in returns.	0.27
CT_RIH	Wash to CFP #10. Had to RIH slowly due to medium/ heavy sand along with plug parts.	2.4
CT_DOP	Tag CFP # 10 @ 16,347 ft CTM. Wireline set Magnum plug @ 16,379 ft. Drill plug in 11 minutes.Pump 3.75 bpm @ 4300 psi//Return 4 bpm @ 1400 psi. Med to heavy sand and plug parts in returns.	0.19
CT_RIH	Wash to CFP # 9.	0.21
CT_DOP	Tag CFP # 9 @ 16,586 ft CTM. Wireline set Magnum plug @ 16,622 ft. Drill plug in 13 minutes.Pump 3.75 bpm @ 4100 psi//Return 4 bpm @ 1400 psi. Med sand and plug parts in returns.	0.22
CT_RIH	Wash to CFP # 8	1.17
CT_DOP	Tag CFP # 8 @ 16,820 ft CTM. Wireline set Magnum plug @ 16,859 ft. Drill plug in 16 minutes.Pump 3.75 bpm @ 4100 psi//Return 4 bpm @ 1400 psi. Med sand and plug parts in returns.	0.27
CT_RIH	Wash to CFP #7.	1.3
CT_DOP	Tag CFP # 7 @ 17,071 ft CTM. Wireline set Magnum plug @ 17,099 ft. Drill plug in 18 minutes.Pump 3.75 bpm @ 3900 psi//Return 4 bpm @ 1400 psi. Moderate sand and plug parts in returns.	0.3
CT_RIH	Wash to CFP #6	1.22
CT_DOP	Tag CFP # 6 @ 17,310 ft CTM. Wireline set Magnum plug @ 17,344 ft. Drill plug in 15 minutes.Pump 3.75 bpm @ 3900 psi//Return 4 bpm @ 1400 psi. Moderate sand and plug parts in returns.	0.25
CT_RIH	Did not run CFP #5. Wash to Plug #4.	2.88
CT_DOP	Tag CFP # 4 @ 17,788 ft CTM. Wireline set Magnum plug @ 17,819 ft. Drill plug in 10 minutes.Pump 3.75 bpm @ 4000 psi//Return 4 bpm @ 1350 psi. Light sand and plug parts in returns.	0.16
CT_RIH	Wash to CFP #3	1.35
CT_DOP	Tag CFP # 3 @ 18,020 ft CTM. Wireline set Magnum plug @ 18,059 ft. Drill plug in 32 minutes.Pump 3.75 bpm @ 3900 psi//Return 4 bpm @ 1200 psi. Light sand and plug parts in returns.	0.53
CT_RIH	Wash to CFP #2	1.59
CT_DOP	Tag CFP # 2 @ 18,259 ft CTM. Wireline set Magnum plug @ 18,299 ft. Drill plug in 11 minutes.Pump 3.75 bpm @ 4050 psi//Return 4 bpm @ 1400 psi. Light sand and plug parts in returns.	0.183
CT_RIH	Wash to CFP #1	1.933
CT_DOP	Tag CFP # 1 @ 18,490 ft CTM. Wireline set Magnum plug @ 18,525 ft. Drill plug in 10 minutes.Pump 3.75 bpm @ 3865 psi//Return 4 bpm @ 1200 psi. Light sand and plug parts in returns.	0.167
CT_RIH	RIH and tag TS at 18,512 ft. PU 20 ft.	0.15
CT_CIRC	Drop ball to open PBL. Pumped 115 BBLs fluid coil capacity 100 BBLs, bring rate up to 6 BPM @ 5500 PSI. Pump 20/10/20/10/20 100 vis sweeps and circulate out of hole.	2.083

Time Log Summary

Operation	Com	Dur (hr)
CT_CIRC	Drop balls to close PBL pump 20 BBL sweep, allow sweep to get above EOC and start out of hole.	1.85

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

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig CONQUEST COMPLETIN SERVICES, CTU#4	
90	32	0.0				

Operations Summary

Finish pumping sweeps. POOH with coil tubing. RD CTU, move to 65H well.

Remarks

Pioneer Frac Tanks on Location: 252, 883, 694, 362
 BHA#2- Overall length 33.47ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor.
 Roll Tarp Box #2038 -- 12000 total #'s sand
 Roll Tarp Box #2042 -- 25,000 total #'s sand

Did not run CFP's #34, #24, #15 or #5 during frac

Time Log Summary

Operation	Com	Dur (hr)
CT_POOH	POOH with coil tubing. Pumping 4 bpm @ 4000 psi, Returns 4 bpm @ 1200 psi. Burning 6'-8" flare.	8
CT_BHA	Unflanged lubricator and moved off well. Installed night cap. Left well shut in.	1.5
OFFSET	Well shut in while waiting on 65H CFP drillout.	14.5

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

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
91	33	0.0				

Operations Summary

No Activity. Waiting on 65H drillout to run Prod Tbnng.

Remarks

Pioneer Frac Tanks on Location: 252, 883, 694, 362
 BHA#2- Overall length 33.47ft. OD 2.875" to 4.625"(JZ Rockbit). 3.125" Motor.
 Roll Tarp Box #2038 -- 12000 total #'s sand
 Roll Tarp Box #2042 -- 25,000 total #'s sand

Did not run CFP's #34, #24, #15 or #5 during frac

Time Log Summary

Operation	Com	Dur (hr)
PAD	Well shut in waiting on drillout on 46H well.	24

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

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
92	34	0.0				

Operations Summary

No Activity. Waiting on 65H drillout to run Prod Tbnng.

Remarks

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

Roll Tarp Box #2038 -- 12000 total #'s sand
 Roll Tarp Box #2042 -- 25,000 total #'s sand

Time Log Summary

Operation	Com	Dur (hr)
PAD	Well shut in waiting on drillout on 46H well.	24

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

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
93	35	0.0				

Operations Summary

No Activity. RU wireline and pump truck, flush well with fresh water, make gauge ring run to 8500' move to 65H to run gauge ring and set packer. Ready for packer pending ops on 65H.

Remarks

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

Roll Tarp Box #2038 -- 12000 total #'s sand
 Roll Tarp Box #2042 -- 25,000 total #'s sand

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Time Log Summary		
Operation	Com	Dur (hr)
SHUT_IN	WSI pending ops on 65H	11
RURD	RU Raider pump truck.	0.75
CT_FLUSH	Check well head PSI 1318. Equilize to well. Open well and pump 240 BBLs down casing to flush. 16 BPM at 2730 PSI. Ending rate 16 BPM @ 3050 PSI. Shut down.	0.5
WL_PKR	NU WL to well, TIH with gauge ring to 8500' POOH and move to 65H to run gauge ring.	2.34
PAD	Ready for Packer pending ops on 65H.	9.417

Report #: 36 Daily Operation: 8/24/2015 06:00 - 8/25/2015 06:00						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
94	36	0.0			ENERGY SERVICE CO. (ESCO), 240	

Operations Summary
API Wireline set A1X packer at 8,330' WLM. RD API wireline. RU ESCO 240, and support equipment. NU BOP's, Check well head for PSI, open well and run GLV's and 2 3/8" production string per Priority design. Tag packer, latch on packer and measure for space out installed 3' and 4' pup joints--details in tubing section of Wellview. ND Bop's Nu production tree. Test void. Secure well and RD to move to 65H for tube up.

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

Roll Tarp Box #2038 -- 12000 total #'s sand
Roll Tarp Box #2042 -- 25,000 total #'s sand

Time Log Summary		
Operation	Com	Dur (hr)
PAD	Well shut in waiting on wireline from 65H well.	0.5
WL_PKR	API Wireline set 4 5/8" AS-1X packer at 8300'. Open well through FB for negative test. Test Good	2
RURD	RDMO API Wireline.	0.5
WOV_BHA	Set plug and TIW valve in B section wellhead. Removed lower frac stack and set tubing double ram and annular preventers.	1
RURD	MIRU Esco Completion Rig No.233. Set pipe racks and P/U machine. Loaded pipe racks with 261 jts 2 3/8"4.7# 8RD L80 tubing.	5
WOV_TBG	RIH with 2 3/8" Prod tubing with GLV and Sage Rider gauges.	5.733
WOV_TBG	Tag Packer, latch on to packer and measure for space out, PU 3' and 4' subs install in string one joint below GL. Install tubing hanger and TIW valve. land tubing with 14K down.	0.467
RURD	RD floor, Check well for PSI, ND BOP's, NU tree hook up gauge line, Test void to 5K good test.	1.55
RURD	RD WOR, support equipment and move to 65H to tube up.	1.25
SHUT_IN	Well shut in production will hook up in AM.	6

Report #: 37 Daily Operation: 8/25/2015 06:00 - 8/26/2015 06:00						
Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 035063;035964	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
95	37	0.0				

Operations Summary
Production tied in well. Clean frac tanks and SandX. WSI

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

Roll Tarp Box #2038 -- 12000 total #'s sand
Roll Tarp Box #2042 -- 25,000 total #'s sand

Time Log Summary		
Operation	Com	Dur (hr)
SHUT_IN	Production tied in well.	13.5
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 bolts. Notified Dustin Grantham with PPS	6.5
SHUT_IN	WSI	4

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

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

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 035063;035964		
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
96	38	0.0						

Operations Summary
Well shut in. Began releasing rental equipment.

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

Roll Tarp Box #2038 -- 12000 total #'s sand
Roll Tarp Box #2042 -- 25,000 total #'s sand

Time Log Summary

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

WELL DETAILS

Well Name UNIVERSITY 2-20 64H	API/UWI 42-383-39266-0000	Operator PIONEER NATURAL RESRC USA, INC
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Wellbore Hole Size

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	End Date
Conductor	30	26.5	126.5	5/15/2015	5/15/2015
Surface	17 1/2	126.5	625.0	5/23/2015	5/24/2015
Intermediate	12 1/4	625.0	5,212.0	5/25/2015	5/27/2015
Production	8 1/2	5,212.0	18,698.0	5/29/2015	6/10/2015

Conductor Casing

Run Date 5/14/2015	Set Depth (ftKB) 120.0	Centralizers						
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	20	19.124	94.00	J-55	120.00	3	0.0	120.0

Run Date 5/15/2015	Set Depth (ftKB) 126.5	Centralizers						
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	1	26.5	126.5

Surface Casing

Set Depth (ftKB) 600.0	Run Date 5/14/2015	Centralizers						
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	13 3/8	12.615	54.50	J-55	600.00	15	0.0	600.0

Set Depth (ftKB) 625.0	Run Date 5/24/2015	Centralizers 5						
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	27.5	27.5
Cut off	13 3/8	12.615		J-55	0.00	0	27.5	27.5
Casing Joints	13 3/8	12.615	54.50	J-55	546.73	13	27.5	574.3
Float Collar	13 3/8	12.615		J-55	1.53	1	574.3	575.8
Casing Joints	13 3/8	12.615	54.50	J-55	47.31	1	575.8	623.1
Float Shoe	13 3/8	12.615		J-55	1.90	1	623.1	625.0

Surface Casing Cement

Type Casing	String Surface, 625.0ftKB	Cementing Start Date 5/24/2015	Cementing End Date 5/24/2015	Cementing Company SCHLUMBERGER	Top (ftKB) 26.5	Btm (ftKB) 625.0
Class Class C	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
	487	1.71	13.60			
Class Class C	Amount (sacks)	Yield (ft³/sack)	Density (lb/gal)			
	100	1.35	14.80			

Intermediate Casing

Set Depth (ftKB) 5,198.2	Run Date 5/28/2015	Centralizers						
Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	9 5/8	8.835	40.00	L-80	0.00	0	29.5	29.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Item Des	OD (in)	ID (in)	Wt/Lgth (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Marker Joint	9 5/8	8.835		L-80	0.00	0	29.5	29.5
Casing Joints	9 5/8	8.835	40.00	L-80	0.00	0	29.5	29.5
Landing Joint	9 5/8	8.835		L-80	0.00	0	29.5	29.5
Casing Hanger	9 5/8	8.835		L-80	4.00	1	29.5	33.5
Casing Joints	9 5/8	8.835	40.00	L-80	44.31	1	33.5	77.8
Marker Joint	9 5/8	8.835		L-80	29.44	2	77.8	107.3
Casing Joints	9 5/8	8.835	40.00	L-80	4,994.12	109	107.3	5,101.4
Float Collar	9 5/8	8.835		L-80	1.58	1	5,101.4	5,103.0
Casing Joints	9 5/8	8.835	40.00	L-80	93.35	2	5,103.0	5,196.3
Float Shoe	9 5/8	8.835		L-80	1.88	1	5,196.3	5,198.2

Set Depth (ftKB)	5,200.0	Run Date	5/14/2015	Centralizers	
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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	Casing	String	Intermediate, 5,198.2ftKB	Cementing Start Date	5/28/2015	Cementing End Date	5/28/2015	Cementing Company	SCHLUMBERGER	Top (ftKB)	2,950.0	Btm (ftKB)	5,198.2
Class	Mud Push	Amount (sacks)		Yield (ft³/sack)	0	Density (lb/gal)						9.80	
Class	TXI LITEWEIGHT	Amount (sacks)	365	Yield (ft³/sack)		Density (lb/gal)	2.25					11.50	
Class	Class H	Amount (sacks)	194	Yield (ft³/sack)		Density (lb/gal)	1.07					16.40	
Class	Fresh water	Amount (sacks)	0	Yield (ft³/sack)		Density (lb/gal)						8.30	

Production Casing

Set Depth (ftKB)	18,685.9	Run Date	6/13/2015	Centralizers	55
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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
Marker Joint	5 1/2	4.778	20.00	P-110	0.00	0	28.0	28.0
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	0	28.0	28.0
Casing 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	41.00	1	32.0	73.0
Marker Joint	5 1/2	4.778	20.00	P-110	18.89	2	73.0	91.9
Casing Joints	5 1/2	4.778	20.00	P-110	7,562.76	192	91.9	7,654.6
Marker Joint	5 1/2	4.778	20.00	P-110	20.04	1	7,654.6	7,674.7
Casing Joints	5 1/2	4.778	20.00	P-110	199.95	5	7,674.7	7,874.6
Marker Joint	5 1/2	4.778	20.00	P-110	20.46	1	7,874.6	7,895.1
Casing Joints	5 1/2	4.778	20.00	P-110	10,629.63	266	7,895.1	18,524.7
Pup Joint	5 1/2	4.778		P-110	19.58	1	18,524.7	18,544.3
Toe Sleeve	5 1/2	4.778		P-110	5.33	1	18,544.3	18,549.6
Pup Joint	5 1/2	4.778		P-110	9.97	1	18,549.6	18,559.6
Casing Joints	5 1/2	4.778	20.00	P-110	39.95	1	18,559.6	18,599.5
Float Collar	5 1/2	4.778		P-110	1.80	1	18,599.5	18,601.3
Casing Joints	5 1/2	4.778	20.00	P-110	82.23	2	18,601.3	18,683.6
Reaming Shoe	6 1/8	4.778		P-110	2.33	1	18,683.6	18,685.9

Set Depth (ftKB)	18,724.0	Run Date	5/14/2015	Centralizers	
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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	18,724.00	469	0.0	18,724.0

Production Casing Cement

Type	Casing	String	Production, 18,685.9ftKB	Cementing Start Date	6/13/2015	Cementing End Date	6/13/2015	Cementing Company	SCHLUMBERGER	Top (ftKB)	4,200.0	Btm (ftKB)	18,686.0
Class	Mud Push	Amount (sacks)		Yield (ft³/sack)	0	Density (lb/gal)						10.50	
Class	TXI LITEWEIGHT	Amount (sacks)	412	Yield (ft³/sack)		Density (lb/gal)	2.19					11.50	

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Class TXI LITEWEIGHT	Amount (sacks) 1,728	Yield (ft ³ /sack) 1.63	Density (lb/gal) 12.50
Class Water	Amount (sacks) 0	Yield (ft ³ /sack)	Density (lb/gal) 8.33

Cement Squeeze

Description	Type	String	Cementing Start Date	Cementing End Date	Top (ftKB)	Btm (ftKB)
Amount (sacks)	Yield (ft ³ /sack)		Dens (lb/gal)			

Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
8,502.0	8,504.0	Wolfcamp B-2, Original	5.0	10	
8,562.0	8,564.0	Wolfcamp B-2, Original	5.0	10	
8,622.0	8,624.0	Wolfcamp B-2, Original	5.0	10	
8,682.0	8,684.0	Wolfcamp B-2, Original	5.0	10	
8,742.0	8,744.0	Wolfcamp B-2, Original	5.0	10	
8,802.0	8,804.0	Wolfcamp B-2, Original	5.0	10	
8,862.0	8,864.0	Wolfcamp B-2, Original	5.0	10	
8,922.0	8,924.0	Wolfcamp B-2, Original	5.0	10	
8,986.0	8,988.0	Wolfcamp B-2, Original	5.0	10	Moved +4 due to collar.
9,042.0	9,044.0	Wolfcamp B-2, Original	5.0	10	
9,102.0	9,104.0	Wolfcamp B-2, Original	5.0	10	
9,162.0	9,164.0	Wolfcamp B-2, Original	5.0	10	
9,224.0	9,224.0	Wolfcamp B-2, Original	5.0	10	
9,282.0	9,284.0	Wolfcamp B-2, Original	5.0	10	
9,342.0	9,344.0	Wolfcamp B-2, Original	5.0	10	
9,402.0	9,404.0	Wolfcamp B-2, Original	5.0	10	
9,462.0	9,464.0	Wolfcamp B-2, Original	5.0	10	
9,522.0	9,524.0	Wolfcamp B-2, Original	5.0	10	
9,582.0	9,584.0	Wolfcamp B-2, Original	5.0	10	
9,642.0	9,644.0	Wolfcamp B-2, Original	5.0	10	
9,702.0	9,704.0	Wolfcamp B-2, Original	5.0	10	
9,762.0	9,764.0	Wolfcamp B-2, Original	5.0	10	
9,822.0	9,824.0	Wolfcamp B-2, Original	5.0	10	
9,880.0	9,882.0	Wolfcamp B-2, Original	5.0	10	
9,942.0	9,944.0	Wolfcamp B-2, Original	5.0	10	
10,002.0	10,004.0	Wolfcamp B-2, Original	5.0	10	
10,062.0	10,064.0	Wolfcamp B-2, Original	5.0	10	
10,122.0	10,124.0	Wolfcamp B-2, Original	5.0	10	
10,182.0	10,184.0	Wolfcamp B-2, Original	5.0	10	
10,242.0	10,244.0	Wolfcamp B-2, Original	5.0	10	
10,302.0	10,304.0	Wolfcamp B-2, Original	5.0	10	
10,362.0	10,364.0	Wolfcamp B-2, Original	5.0	10	
10,422.0	10,424.0	Wolfcamp B-2, Original	5.0	10	
10,482.0	10,484.0	Wolfcamp B-2, Original	5.0	10	
10,542.0	10,544.0	Wolfcamp B-2, Original	5.0	10	
10,602.0	10,604.0	Wolfcamp B-2, Original	5.0	10	
10,662.0	10,664.0	Wolfcamp B-2, Original	5.0	10	
10,722.0	10,724.0	Wolfcamp B-2, Original	5.0	10	
10,782.0	10,784.0	Wolfcamp B-2, Original	5.0	10	
10,842.0	10,844.0	Wolfcamp B-2, Original	5.0	10	
10,902.0	10,904.0	Wolfcamp B-2, Original	5.0	10	
10,962.0	10,964.0	Wolfcamp B-2, Original	5.0	10	
11,022.0	11,024.0	Wolfcamp B-2, Original	5.0	10	
11,082.0	11,084.0	Wolfcamp B-2, Original	5.0	10	
11,142.0	11,144.0	Wolfcamp B-2, Original	5.0	10	
11,202.0	11,204.0	Wolfcamp B-2, Original	5.0	10	
11,262.0	11,264.0	Wolfcamp B-2, Original	5.0	10	

Perforations					
Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
11,322.0	11,324.0	Wolfcamp B-2, Original	5.0	10	
11,382.0	11,384.0	Wolfcamp B-2, Original	5.0	10	
11,442.0	11,444.0	Wolfcamp B-2, Original	5.0	10	
11,502.0	11,504.0	Wolfcamp B-2, Original	5.0	10	
11,562.0	11,564.0	Wolfcamp B-2, Original	5.0	10	
11,622.0	11,624.0	Wolfcamp B-2, Original	5.0	10	
11,682.0	11,684.0	Wolfcamp B-2, Original	5.0	10	
11,742.0	11,744.0	Wolfcamp B-2, Original	5.0	10	
11,802.0	11,804.0	Wolfcamp B-2, Original	5.0	10	
11,870.0	11,872.0	Wolfcamp B-2, Original	5.0	10	
11,922.0	11,924.0	Wolfcamp B-2, Original	5.0	10	
11,982.0	11,984.0	Wolfcamp B-2, Original	5.0	10	
12,042.0	12,044.0	Wolfcamp B-2, Original	5.0	10	
12,102.0	12,104.0	Wolfcamp B-2, Original	5.0	10	
12,162.0	12,164.0	Wolfcamp B-2, Original	5.0	10	
12,222.0	12,224.0	Wolfcamp B-2, Original	5.0	10	
12,282.0	12,284.0	Wolfcamp B-2, Original	5.0	10	
12,342.0	12,344.0	Wolfcamp B-2, Original	5.0	10	
12,402.0	12,404.0	Wolfcamp B-2, Original	5.0	10	
12,462.0	12,464.0	Wolfcamp B-2, Original	5.0	10	
12,522.0	12,524.0	Wolfcamp B-2, Original	5.0	10	
12,582.0	12,584.0	Wolfcamp B-2, Original	5.0	10	
12,642.0	12,644.0	Wolfcamp B-2, Original	5.0	10	
12,702.0	12,704.0	Wolfcamp B-2, Original	5.0	10	
12,762.0	12,764.0	Wolfcamp B-2, Original	5.0	10	
12,822.0	12,824.0	Wolfcamp B-2, Original	5.0	10	
12,882.0	12,884.0	Wolfcamp B-2, Original	5.0	10	
12,942.0	12,944.0	Wolfcamp B-2, Original	5.0	10	
12,998.0	13,000.0	Wolfcamp B-2, Original	5.0	10	
13,062.0	13,064.0	Wolfcamp B-2, Original	5.0	10	
13,122.0	13,124.0	Wolfcamp B-2, Original	5.0	10	
13,182.0	13,184.0	Wolfcamp B-2, Original	5.0	10	
13,242.0	13,244.0	Wolfcamp B-2, Original	5.0	10	
13,302.0	13,304.0	Wolfcamp B-2, Original	5.0	10	
13,310.0	13,312.0	Wolfcamp B-2, Original	5.0	10	
13,340.0	13,342.0	Wolfcamp B-2, Original	5.0	10	
13,362.0	13,364.0	Wolfcamp B-2, Original	5.0	10	
13,370.0	13,372.0	Wolfcamp B-2, Original	5.0	10	
13,400.0	13,402.0	Wolfcamp B-2, Original	5.0	10	
13,422.0	13,424.0	Wolfcamp B-2, Original	5.0	10	
13,482.0	13,484.0	Wolfcamp B-2, Original	5.0	10	
13,542.0	13,544.0	Wolfcamp B-2, Original	5.0	10	
13,602.0	13,604.0	Wolfcamp B-2, Original	5.0	10	
13,662.0	13,664.0	Wolfcamp B-2, Original	5.0	10	
13,722.0	13,724.0	Wolfcamp B-2, Original	5.0	10	
13,782.0	13,784.0	Wolfcamp B-2, Original	5.0	10	
13,842.0	13,844.0	Wolfcamp B-2, Original	5.0	10	
13,902.0	13,904.0	Wolfcamp B-2, Original	5.0	10	
13,962.0	13,964.0	Wolfcamp B-2, Original	5.0	10	
14,022.0	14,024.0	Wolfcamp B-2, Original	5.0	10	
14,082.0	14,084.0	Wolfcamp B-2, Original	5.0	10	
14,142.0	14,144.0	Wolfcamp B-2, Original	5.0	10	
14,202.0	14,204.0	Wolfcamp B-2, Original	5.0	10	
14,262.0	14,264.0	Wolfcamp B-2, Original	5.0	10	

Perforations					
Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
14,322.0	14,324.0	Wolfcamp B-2, Original	5.0	10	
14,382.0	14,384.0	Wolfcamp B-2, Original	5.0	10	
14,442.0	14,444.0	Wolfcamp B-2, Original	5.0	10	
14,502.0	14,504.0	Wolfcamp B-2, Original	5.0	10	
14,562.0	14,564.0	Wolfcamp B-2, Original	5.0	10	
14,622.0	14,624.0	Wolfcamp B-2, Original	5.0	10	
14,682.0	14,684.0	Wolfcamp B-2, Original	5.0	10	
14,742.0	14,744.0	Wolfcamp B-2, Original	5.0	10	
14,802.0	14,804.0	Wolfcamp B-2, Original	5.0	10	
14,862.0	14,864.0	Wolfcamp B-2, Original	5.0	10	
14,922.0	14,924.0	Wolfcamp B-2, Original	5.0	10	
14,982.0	14,984.0	Wolfcamp B-2, Original	5.0	10	
15,042.0	15,044.0	Wolfcamp B-2, Original	5.0	10	
15,102.0	15,104.0	Wolfcamp B-2, Original	5.0	10	
15,162.0	15,164.0	Wolfcamp B-2, Original	5.0	10	
15,222.0	15,224.0	Wolfcamp B-2, Original	5.0	10	
15,282.0	15,284.0	Wolfcamp B-2, Original	5.0	10	
15,342.0	15,344.0	Wolfcamp B-2, Original	5.0	10	
15,402.0	15,404.0	Wolfcamp B-2, Original	5.0	10	
15,462.0	15,464.0	Wolfcamp B-2, Original	5.0	10	
15,522.0	15,524.0	Wolfcamp B-2, Original	5.0	10	
15,582.0	15,584.0	Wolfcamp B-2, Original	5.0	10	
15,642.0	15,644.0	Wolfcamp B-2, Original	5.0	10	
15,702.0	15,704.0	Wolfcamp B-2, Original	5.0	10	
15,762.0	15,764.0	Wolfcamp B-2, Original	5.0	10	
15,822.0	15,824.0	Wolfcamp B-2, Original	5.0	10	
15,882.0	15,884.0	Wolfcamp B-2, Original	5.0	10	
15,942.0	15,944.0	Wolfcamp B-2, Original	5.0	10	
16,002.0	16,004.0	Wolfcamp B-2, Original	5.0	10	
16,062.0	16,064.0	Wolfcamp B-2, Original	5.0	10	
16,122.0	16,124.0	Wolfcamp B-2, Original	5.0	10	
16,182.0	16,184.0	Wolfcamp B-2, Original	5.0	10	
16,242.0	16,244.0	Wolfcamp B-2, Original	5.0	10	
16,302.0	16,304.0	Wolfcamp B-2, Original	5.0	10	
16,362.0	16,364.0	Wolfcamp B-2, Original	5.0	10	
16,422.0	16,424.0	Wolfcamp B-2, Original	5.0	10	
16,482.0	16,484.0	Wolfcamp B-2, Original	5.0	10	
16,542.0	16,544.0	Wolfcamp B-2, Original	5.0	10	
16,602.0	16,604.0	Wolfcamp B-2, Original	5.0	10	
16,662.0	16,664.0	Wolfcamp B-2, Original	5.0	10	
16,722.0	16,724.0	Wolfcamp B-2, Original	5.0	10	
16,782.0	16,784.0	Wolfcamp B-2, Original	5.0	10	
16,842.0	16,844.0	Wolfcamp B-2, Original	5.0	10	
16,902.0	16,904.0	Wolfcamp B-2, Original	5.0	10	
16,962.0	16,964.0	Wolfcamp B-2, Original	5.0	10	
17,022.0	17,024.0	Wolfcamp B-2, Original	5.0	10	
17,082.0	17,084.0	Wolfcamp B-2, Original	5.0	10	
17,142.0	17,144.0	Wolfcamp B-2, Original	5.0	10	
17,202.0	17,204.0	Wolfcamp B-2, Original	5.0	10	
17,262.0	17,264.0	Wolfcamp B-2, Original	5.0	10	
17,322.0	17,324.0	Wolfcamp B-2, Original	5.0	10	
17,382.0	17,384.0	Wolfcamp B-2, Original	5.0	10	
17,442.0	17,444.0	Wolfcamp B-2, Original	5.0	10	
17,502.0	17,504.0	Wolfcamp B-2, Original	5.0	10	

Perforations					
Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
17,562.0	17,564.0	Wolfcamp B-2, Original	5.0	10	
17,622.0	17,624.0	Wolfcamp B-2, Original	5.0	10	
17,682.0	17,684.0	Wolfcamp B-2, Original	5.0	10	
17,742.0	17,744.0	Wolfcamp B-2, Original	5.0	10	
17,802.0	17,804.0	Wolfcamp B-2, Original	5.0	10	
17,862.0	17,864.0	Wolfcamp B-2, Original	5.0	10	
17,922.0	17,924.0	Wolfcamp B-2, Original	5.0	10	
17,982.0	17,984.0	Wolfcamp B-2, Original	5.0	10	
18,042.0	18,044.0	Wolfcamp B-2, Original	5.0	10	
18,102.0	18,104.0	Wolfcamp B-2, Original	5.0	10	
18,162.0	18,164.0	Wolfcamp B-2, Original	5.0	10	
18,222.0	18,224.0	Wolfcamp B-2, Original	5.0	10	
18,282.0	18,284.0	Wolfcamp B-2, Original	5.0	10	
18,342.0	18,344.0	Wolfcamp B-2, Original	5.0	10	
18,402.0	18,404.0	Wolfcamp B-2, Original	5.0	10	
18,462.0	18,464.0	Wolfcamp B-2, Original	5.0	10	
18,515.0	18,517.0	Wolfcamp B-2, Original	5.0	10	
18,544.3	18,549.6		0.0	0	

Completion (FRAC) Details
FRAC on 7/27/2015 11:00

Date	Type	Zone	Stim/Treat Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
7/27/2015	FRAC	Wolfcamp B-2, Original	PIONEER PUMPING SERVICES	18,342.0	18,517.0

GEL		Total Clean Volume (bbl)
Fluid Name	7.5% HCl	10,026.00
Fluid Name	Slickwater	10,026.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,440.0	lb	40/70	2.00

FRAC on 7/28/2015 07:30

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	18,102.0	18,284.0

GEL		Total Clean Volume (bbl)
Fluid Name	7.5% HCl	9,627.00
Fluid Name	Slickwater	9,627.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,187.0	lb	40/70	2.00

FRAC on 7/28/2015 15:35

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	17,862.0	18,044.0

GEL		Total Clean Volume (bbl)
Fluid Name	7.5% HCl	4,807.00
Fluid Name	Slickwater	4,807.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	19,196.0	lb	40/70	0.00

FRAC on 7/29/2015 11:00

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	17,622.0	17,804.0

GEL		Total Clean Volume (bbl)
Fluid Name	7.5% HCl	5,517.00
Fluid Name	Slickwater	5,517.00

SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	47,516.0	lb	40/70	

Completion (FRAC) Details					
FRAC on 7/31/2015 11:00					
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	17,382.0	17,564.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			7,774.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			7,774.00		
Fluid Name			Total Clean Volume (bbl)		
Linear Gel			7,774.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	49,096.0	lb	40/70	
FRAC on 7/31/2015 20:15					
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	17,142.0	17,324.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,898.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,898.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	239,011.0	lb	40/70	2.00
FRAC on 8/1/2015 03:00					
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	16,902.0	17,084.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,452.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,452.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	241,084.0	lb	40/70	2.00
FRAC on 8/1/2015 10:00					
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	16,662.0	16,844.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,079.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,079.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	243,443.0	lb	40/70	2.00
FRAC on 8/1/2015 17:00					
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	16,422.0	16,604.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,399.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,399.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,490.0	lb	40/70	2.00
FRAC on 8/2/2015 00:00					
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	16,182.0	16,364.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,373.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,373.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	241,343.0	lb	40/70	2.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Completion (FRAC) Details					
FRAC on 8/2/2015 06:15					
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	15,942.0	16,124.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,575.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,575.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	241,632.0	lb	40/70	2.00
FRAC on 8/4/2015 11:00					
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	15,702.0	15,884.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,445.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,445.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	239,815.0	lb	40/70	2.00
FRAC on 8/4/2015 19:45					
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	15,462.0	15,644.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,370.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,370.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,845.0	lb	40/70	2.00
FRAC on 8/5/2015 02:45					
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	15,222.0	15,404.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			4,896.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			4,896.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	22,001.0	lb	30/50	
FRAC on 8/5/2015 10:16					
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	14,982.0	15,162.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,284.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,284.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,593.0	lb	40/70	
FRAC on 8/5/2015 20:57					
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	14,742.0	14,924.0
GEL					
Fluid Name			Total Clean Volume (bbl)		
7.5% HCl			9,300.00		
Fluid Name			Total Clean Volume (bbl)		
Slickwater			9,300.00		
SAND & ACID					
Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,137.0	lb	40/70	2.00
FRAC on 8/6/2015 03:59					
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	14,502.0	14,684.0

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,286.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,286.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 240,666.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/6/2015 08:59					
Date 8/6/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 14,262.0	Max Btm Depth (ftKB) 14,444.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,229.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,229.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 241,040.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/6/2015 15:39					
Date 8/6/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 14,022.0	Max Btm Depth (ftKB) 14,204.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,239.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,239.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 240,835.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/6/2015 23:30					
Date 8/6/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 13,782.0	Max Btm Depth (ftKB) 13,964.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,198.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,198.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 240,682.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/7/2015 06:29					
Date 8/7/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 13,542.0	Max Btm Depth (ftKB) 13,724.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 9,150.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 9,150.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 240,618.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/7/2015 16:47					
Date 8/7/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 13,302.0	Max Btm Depth (ftKB) 13,484.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 3,501.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 3,501.00		
FRAC on 8/7/2015 21:13					
Date 8/7/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 13,302.0	Max Btm Depth (ftKB) 13,484.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 2,525.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 2,525.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 3,516.0	Units lb	Sand Size 40/70	Concentration... 0.15

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Completion (FRAC) Details						
FRAC on 8/8/2015 03:04						
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		13,062.0	13,244.0
GEL						
Fluid Name				Total Clean Volume (bbi)		
7.5% HCl				1,823.00		
Fluid Name				Total Clean Volume (bbi)		
Slickwater				1,823.00		
FRAC on 8/8/2015 08:42						
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		12,822.0	12,998.0
GEL						
Fluid Name				Total Clean Volume (bbi)		
7.5% HCl				10,342.00		
Fluid Name				Total Clean Volume (bbi)		
Slickwater				10,342.00		
SAND & ACID						
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	298,503.0	lb	40/70	2.00	
FRAC on 8/8/2015 21:16						
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		12,582.0	12,764.0
GEL						
Fluid Name				Total Clean Volume (bbi)		
7.5% HCl				10,378.00		
Fluid Name				Total Clean Volume (bbi)		
Slickwater				10,378.00		
SAND & ACID						
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	315,143.0	lb	40/70	2.00	
FRAC on 8/9/2015 02:56						
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		12,342.0	12,524.0
GEL						
Fluid Name				Total Clean Volume (bbi)		
7.5% HCl				10,350.00		
Fluid Name				Total Clean Volume (bbi)		
Slickwater				10,350.00		
SAND & ACID						
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	315,311.0	lb	40/70	2.00	
FRAC on 8/9/2015 07:50						
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		12,102.0	12,284.0
GEL						
Fluid Name				Total Clean Volume (bbi)		
7.5% HCl				12,285.00		
Fluid Name				Total Clean Volume (bbi)		
Slickwater				12,285.00		
SAND & ACID						
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	184,000.0	lb	40/70	1.50	
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	134,587.0	lb	40/70	2.00	
FRAC on 8/9/2015 19:10						
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		11,862.0	12,044.0
GEL						
Fluid Name				Total Clean Volume (bbi)		
7.5% HCl				10,437.00		
Fluid Name				Total Clean Volume (bbi)		
Slickwater				10,437.00		
SAND & ACID						
Additive	Type	Amount	Units	Sand Size	Concentration...	
Brown Sand	Bulk Sand	301,471.0	lb	40/70	2.00	
FRAC on 8/10/2015 02:32						
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		11,622.0	11,804.0

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 10,690.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 10,690.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 241,831.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/10/2015 22:39					
Date 8/10/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 11,382.0	Max Btm Depth (ftKB) 11,564.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,978.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,978.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 240,012.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/11/2015 03:03					
Date 8/11/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 11,142.0	Max Btm Depth (ftKB) 11,324.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,949.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,949.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 240,526.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/11/2015 11:50					
Date 8/11/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 10,902.0	Max Btm Depth (ftKB) 11,084.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,830.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,830.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 240,553.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/11/2015 18:35					
Date 8/11/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 10,662.0	Max Btm Depth (ftKB) 10,844.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 3,396.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 3,396.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 2,031.0	Units lb	Sand Size 40/70	Concentration... 0.15
FRAC on 8/12/2015 08:00					
Date 8/12/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 10,422.0	Max Btm Depth (ftKB) 10,604.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 10,260.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 10,260.00		
SAND & ACID					
Additive Brown Sand	Type Bulk Sand	Amount 324,925.0	Units lb	Sand Size 40/70	Concentration... 2.00
FRAC on 8/12/2015 16:09					
Date 8/12/2015	Type FRAC	Zone Wolfcamp B-2, Original	Stim/Treat Company PIONEER PUMPING SERVICES	Min Top Depth (ftKB) 10,182.0	Max Btm Depth (ftKB) 10,364.0
GEL					
Fluid Name 7.5% HCl			Total Clean Volume (bbl) 8,894.00		
Fluid Name Slickwater			Total Clean Volume (bbl) 8,894.00		

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,408.0	lb	40/70	2.00

FRAC on 8/12/2015 22:50

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	9,942.0	10,124.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,958.00

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,958.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,425.0	lb	40/70	2.00

FRAC on 8/13/2015 05:23

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	9,702.0	9,884.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,925.00

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,925.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	240,241.0	lb	30/50	0.00

FRAC on 8/13/2015 11:51

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	9,462.0	9,644.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,827.00

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,827.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	241,207.0	lb	40/70	

FRAC on 8/13/2015 18:13

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	9,222.0	9,404.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,896.00

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,896.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	241,391.0	lb	40/70	2.00

FRAC on 8/14/2015 00:58

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	8,982.0	9,164.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	9,923.00

Fluid Name	Total Clean Volume (bbl)
Slickwater	9,923.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	224,665.0	lb	30/50	2.00

FRAC on 8/14/2015 08:30

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	8,742.0	8,924.0

GEL

Fluid Name	Total Clean Volume (bbl)
7.5% HCl	8,941.00

Fluid Name	Total Clean Volume (bbl)
Slickwater	8,941.00

SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...
Brown Sand	Bulk Sand	246,112.0	lb	40/70	2.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Completion (FRAC) Details										
FRAC on 8/14/2015 12:45										
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				8,502.0	8,684.0		
GEL										
Fluid Name					Total Clean Volume (bbl)					
7.5% HCl					9,197.00					
Fluid Name					Total Clean Volume (bbl)					
Slickwater					9,197.00					
SAND & ACID										
Additive	Type	Amount	Units	Sand Size	Concentration...					
Brown Sand	Bulk Sand	265,822.0	lb	40/70	2.00					
Zones										
Zone Name						Top (ftKB)				
Wolfcamp B-2						45.0				
Tubing Details										
Tubing Description					Set Depth (ftKB)	Run Date				
Tubing - Production					8,317.9	8/24/2015				
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	32.58	1	26.8	59.4			
Tubing Pup Joint	2 3/8	4.00	L-80	4.00	1	59.4	63.4			
Tubing Pup Joint	2 3/8	4.00	L-80	3.00	1	63.4	66.4			
Tubing	2 3/8	4.00	L-80	1,923.21	59	66.4	1,989.6			
Gas Lift Valve #13	2 3/8	4.00	L-80	4.00	1	1,989.6	1,993.6			
Tubing	2 3/8	4.00	L-80	489.02	15	1,993.6	2,482.6			
Gas Lift Valve #12	2 3/8	4.00	L-80	4.00	1	2,482.6	2,486.6			
Tubing	2 3/8	4.00	L-80	521.54	16	2,486.6	3,008.2			
Gas Lift Valve #11	2 3/8	4.00	L-80	4.00	1	3,008.2	3,012.2			
Tubing	2 3/8	4.00	L-80	488.93	15	3,012.2	3,501.1			
Gas Lift Valve #10	2 3/8	4.00	L-80	4.10	1	3,501.1	3,505.2			
Tubing	2 3/8	4.00	L-80	521.76	16	3,505.2	4,026.9			
Gas Lift Valve #9	2 3/8	4.00	L-80	4.10	1	4,026.9	4,031.0			
Tubing	2 3/8	4.00	L-80	489.17	15	4,031.0	4,520.2			
Gas Lift Valve #8	2 3/8	4.00	L-80	4.10	1	4,520.2	4,524.3			
Tubing	2 3/8	4.00	L-80	521.75	16	4,524.3	5,046.1			
Gas Lift Valve #7	2 3/8	4.00	L-80	4.10	1	5,046.1	5,050.2			
Tubing	2 3/8	4.00	L-80	489.03	15	5,050.2	5,539.2			
Gas Lift Valve #6	2 3/8	4.00	L-80	4.10	1	5,539.2	5,543.3			
Tubing	2 3/8	4.00	L-80	521.85	16	5,543.3	6,065.1			
Gas Lift Valve #5	2 3/8	4.00	L-80	4.10	1	6,065.1	6,069.2			
Tubing	2 3/8	4.00	L-80	489.19	15	6,069.2	6,558.4			
Gas Lift Valve #4	2 3/8	4.00	L-80	4.10	1	6,558.4	6,562.5			
Tubing	2 3/8	4.00	L-80	551.87	17	6,562.5	7,114.4			
Gas Lift Valve #3	2 3/8	4.00	L-80	4.10	1	7,114.4	7,118.5			
Tubing	2 3/8	4.00	L-80	554.12	17	7,118.5	7,672.6			
Gas Lift Valve #2	2 3/8	4.00	L-80	4.10	1	7,672.6	7,676.7			
Tubing	2 3/8	4.00	L-80	554.40	17	7,676.7	8,231.1			
Profile Nipple X	2 3/8	4.00	L-80	0.90	1	8,231.1	8,232.0			
Tubing	2 3/8	4.00	L-80	32.59	1	8,232.0	8,264.6			
Gas Lift Valve #1	2 3/8	4.00	L-80	4.10	1	8,264.6	8,268.7			
GOPC	4.17		L-80	7.33	1	8,268.7	8,276.0			
Tubing	2 3/8	4.00	L-80	32.70	1	8,276.0	8,308.7			
On-Off Tool	2 3/8			1.50	1	8,308.7	8,310.2			
Packer	2 3/8			7.20	1	8,310.2	8,317.4			
POP	2 3/8		L-80	0.45	1	8,317.4	8,317.9			
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	18,525.0	18,527.0	4.3	7/27/2015		Production, 18,685.9ftKB	Original			
Composite Plug	18,299.0	18,301.0	4.3	7/27/2015		Production, 18,685.9ftKB	Original			
Composite Plug	18,059.0	18,061.0	4.3	7/28/2015		Production, 18,685.9ftKB	Original			
Composite Plug	17,819.0	17,821.0	4.3	7/28/2015		Production, 18,685.9ftKB	Original			
Composite Plug	17,579.0	17,581.0	4.3	7/30/2015	TCP did not set CFP	Production, 18,685.9ftKB	Original			
Composite Plug	17,344.0	17,346.0	4.3	7/31/2015	Moved due to collar	Production, 18,685.9ftKB	Original			
Composite Plug	17,099.0	17,101.0	4.3	8/1/2015		Production, 18,685.9ftKB	Original			
Composite Plug	16,859.0	16,861.0	4.3	8/1/2015		Production, 18,685.9ftKB	Original			
Composite Plug	16,622.0	16,624.0	4.3	8/1/2015	Moved due to collar	Production, 18,685.9ftKB	Original			
Composite Plug	16,379.0	16,381.0	4.3	8/1/2015		Production, 18,685.9ftKB	Original			
Composite Plug	16,139.0	16,141.0	4.3	8/2/2015		Production, 18,685.9ftKB	Original			
Composite Plug	15,899.0	15,901.0	4.3	8/2/2015		Production, 18,685.9ftKB	Original			
Composite Plug	15,659.0	15,661.0	4.3	8/3/2015		Production, 18,685.9ftKB	Original			
Composite Plug	15,424.0	15,426.0	4.3	8/4/2015	Moved due to collar	Production, 18,685.9ftKB	Original			
Composite Plug	15,179.0	15,181.0	4.3	8/5/2015	Did not set CFP	Production, 18,685.9ftKB	Original			
Composite Plug	14,939.0	14,941.0	4.3	8/5/2015		Production, 18,685.9ftKB	Original			
Composite Plug	14,699.0	14,701.0	4.3	8/5/2015		Production, 18,685.9ftKB	Original			
Composite Plug	14,470.0	14,472.0	4.3	8/6/2015	Moved due to collar	Production, 18,685.9ftKB	Original			
Composite Plug	14,226.0	14,228.0	4.3	8/6/2015	Moved due to collar.	Production, 18,685.9ftKB	Original			
Composite Plug	13,979.0	13,981.0	4.3	8/6/2015		Production, 18,685.9ftKB	Original			
Composite Plug	13,739.0	13,741.0	4.3	8/7/2015		Production, 18,685.9ftKB	Original			
Composite Plug	13,499.0	13,501.0	4.3	8/7/2015		Production, 18,685.9ftKB	Original			
Composite Plug	13,259.0	13,261.0	4.3	8/7/2015		Production, 18,685.9ftKB	Original			
Composite Plug	13,019.0	13,021.0	4.3	8/8/2015	DID not run per engineer	Production, 18,685.9ftKB	Original			
Composite Plug	12,779.0	12,781.0	4.3	8/8/2015		Production, 18,685.9ftKB	Original			
Composite Plug	12,539.0	12,541.0	4.3	8/8/2015		Production, 18,685.9ftKB	Original			
Composite Plug	12,299.0	12,301.0	4.3	8/9/2015		Production, 18,685.9ftKB	Original			
Composite Plug	12,059.0	12,061.0	4.3	8/9/2015		Production, 18,685.9ftKB	Original			
Composite Plug	11,830.0	11,832.0	4.3	8/9/2015	Moved due to collar.	Production, 18,685.9ftKB	Original			

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Other In Hole							
Des	Top (ftKB)	Btm (ftKB)	OD (in)	Run Date	Com	String	Wellbore
Composite Plug	11,579.0	11,581.0	4.3	8/10/2015		Production, 18,685.9ftKB	Original
Composite Plug	11,345.0	11,347.0	4.3	8/10/2015	Moved due to collar.	Production, 18,685.9ftKB	Original
Composite Plug	11,099.0	11,101.0	4.3	8/11/2015		Production, 18,685.9ftKB	Original
Composite Plug	10,859.0	10,861.0	4.3	8/11/2015	Did not tag plug	Production, 18,685.9ftKB	Original
Composite Plug	10,619.0	10,621.0	4.3	8/12/2015	Did not set per engineer	Production, 18,685.9ftKB	Original
Composite Plug	10,379.0	10,381.0	4.3	8/12/2015		Production, 18,685.9ftKB	Original
Composite Plug	10,139.0	10,141.0	4.3	8/12/2015		Production, 18,685.9ftKB	Original
Composite Plug	9,899.0	9,901.0	4.3	8/13/2015		Production, 18,685.9ftKB	Original
Composite Plug	9,659.0	9,661.0	4.3	8/13/2015		Production, 18,685.9ftKB	Original
Composite Plug	9,423.0	9,425.0	4.3	8/13/2015		Production, 18,685.9ftKB	Original
Composite Plug	9,182.0	9,184.0	4.3	8/13/2015	Moved +3 due to collar.	Production, 18,685.9ftKB	Original
Composite Plug	8,949.0	8,951.0	4.3	8/14/2015	Moved 10ft due to collar	Production, 18,685.9ftKB	Original
Composite Plug	8,699.0	8,701.0	4.3	8/14/2015	Moved 10ft due to collar	Production, 18,685.9ftKB	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		Description					
5/23/2015		MAIN HOLE SURVEY					
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company	
5/24/2015	0.00	0.00	0.00	0.00	0.00	VES	
5/24/2015	50.00	0.42	312.34	50.00	0.18	VES	
5/24/2015	100.00	0.66	308.95	100.00	0.65	VES	
5/24/2015	200.00	0.41	302.07	199.99	1.59	VES	
5/24/2015	300.00	0.42	314.20	299.99	2.31	VES	
5/24/2015	400.00	0.34	315.90	399.99	2.97	VES	
5/24/2015	500.00	0.44	300.60	499.99	3.64	VES	
5/24/2015	600.00	0.20	219.07	599.98	4.09	VES	
5/24/2015	611.00	0.22	213.68	610.98	4.13	VES	
5/25/2015	720.00	0.53	183.89	719.98	4.82	Leam Drilling Systems, Inc.	
5/25/2015	811.00	0.18	210.43	810.98	5.38	Leam Drilling Systems, Inc.	
5/25/2015	903.00	0.26	196.37	902.98	5.73	Leam Drilling Systems, Inc.	
5/25/2015	998.00	0.26	197.60	997.98	6.16	Leam Drilling Systems, Inc.	
5/25/2015	1,092.00	0.70	258.25	1,091.98	6.86	Leam Drilling Systems, Inc.	
5/25/2015	1,186.00	1.76	274.59	1,185.95	8.86	Leam Drilling Systems, Inc.	
5/25/2015	1,280.00	2.64	275.65	1,279.88	12.47	Leam Drilling Systems, Inc.	
5/25/2015	1,375.00	3.34	277.58	1,374.75	17.42	Leam Drilling Systems, Inc.	
5/25/2015	1,469.00	3.25	276.18	1,468.60	22.83	Leam Drilling Systems, Inc.	
5/25/2015	1,563.00	3.52	272.66	1,562.43	28.37	Leam Drilling Systems, Inc.	
5/25/2015	1,658.00	3.43	273.36	1,657.26	34.13	Leam Drilling Systems, Inc.	
5/25/2015	1,752.00	3.87	266.68	1,751.07	40.11	Leam Drilling Systems, Inc.	
5/25/2015	1,846.00	4.13	268.62	1,844.84	46.66	Leam Drilling Systems, Inc.	
5/25/2015	1,940.00	3.25	265.98	1,938.64	52.71	Leam Drilling Systems, Inc.	

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 2-20 64H

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
5/25/2015	2,035.00	2.90	254.20	2,033.51	57.78	Leam Drilling Systems, Inc.
5/25/2015	2,129.00	1.93	245.59	2,127.42	61.73	Leam Drilling Systems, Inc.
5/26/2015	2,223.00	0.88	233.81	2,221.39	64.03	Leam Drilling Systems, Inc.
5/26/2015	2,317.00	0.35	177.74	2,315.39	64.94	Leam Drilling Systems, Inc.
5/26/2015	2,411.00	0.35	158.23	2,409.39	65.50	Leam Drilling Systems, Inc.
5/26/2015	2,506.00	0.62	108.83	2,504.38	66.24	Leam Drilling Systems, Inc.
5/26/2015	2,600.00	0.35	111.12	2,598.38	67.04	Leam Drilling Systems, Inc.
5/26/2015	2,694.00	0.62	133.62	2,692.38	67.82	Leam Drilling Systems, Inc.
5/26/2015	2,788.00	0.53	35.88	2,786.37	68.44	Leam Drilling Systems, Inc.
5/26/2015	2,882.00	0.79	32.89	2,880.37	69.52	Leam Drilling Systems, Inc.
5/26/2015	2,977.00	1.06	17.60	2,975.36	71.04	Leam Drilling Systems, Inc.
5/26/2015	3,072.00	0.62	90.20	3,070.35	72.19	Leam Drilling Systems, Inc.
5/26/2015	3,166.00	0.88	129.40	3,164.34	73.35	Leam Drilling Systems, Inc.
5/26/2015	3,260.00	1.14	122.02	3,258.32	75.00	Leam Drilling Systems, Inc.
5/26/2015	3,354.00	1.06	100.04	3,352.31	76.77	Leam Drilling Systems, Inc.
5/26/2015	3,448.00	1.23	105.14	3,446.29	78.65	Leam Drilling Systems, Inc.
5/26/2015	3,542.00	0.53	73.68	3,540.28	80.05	Leam Drilling Systems, Inc.
5/26/2015	3,636.00	0.53	42.74	3,634.27	80.89	Leam Drilling Systems, Inc.
5/26/2015	3,731.00	0.18	32.54	3,729.27	81.47	Leam Drilling Systems, Inc.
5/26/2015	3,825.00	0.53	85.98	3,823.27	82.01	Leam Drilling Systems, Inc.
5/26/2015	3,919.00	0.53	92.84	3,917.27	82.88	Leam Drilling Systems, Inc.
5/26/2015	4,013.00	0.44	86.86	4,011.26	83.67	Leam Drilling Systems, Inc.
5/26/2015	4,107.00	0.44	76.49	4,105.26	84.39	Leam Drilling Systems, Inc.
5/26/2015	4,202.00	0.44	87.74	4,200.26	85.12	Leam Drilling Systems, Inc.
5/26/2015	4,296.00	0.44	83.87	4,294.25	85.84	Leam Drilling Systems, Inc.
5/26/2015	4,390.00	0.26	26.68	4,388.25	86.35	Leam Drilling Systems, Inc.
5/26/2015	4,484.00	0.18	67.17	4,482.25	86.69	Leam Drilling Systems, Inc.
5/26/2015	4,579.00	0.35	86.86	4,577.25	87.12	Leam Drilling Systems, Inc.
5/26/2015	4,673.00	0.44	25.16	4,671.25	87.68	Leam Drilling Systems, Inc.
5/27/2015	4,767.00	0.26	53.64	4,765.25	88.24	Leam Drilling Systems, Inc.
5/27/2015	4,862.00	0.62	64.89	4,860.24	88.96	Leam Drilling Systems, Inc.
5/27/2015	4,956.00	0.53	35.53	4,954.24	89.88	Leam Drilling Systems, Inc.
5/27/2015	5,050.00	0.70	64.53	5,048.24	90.85	Leam Drilling Systems, Inc.
5/27/2015	5,144.00	0.44	60.49	5,142.23	91.79	Leam Drilling Systems, Inc.
5/29/2015	5,212.00	0.62	66.64	5,210.23	92.42	Leam Drilling Systems, Inc.
5/29/2015	5,307.00	0.79	59.09	5,305.22	93.58	Leam Drilling Systems, Inc.
5/29/2015	5,401.00	0.79	63.66	5,399.21	94.88	Leam Drilling Systems, Inc.
5/29/2015	5,495.00	0.79	61.19	5,493.20	96.17	Leam Drilling Systems, Inc.
5/29/2015	5,590.00	0.79	59.26	5,588.19	97.48	Leam Drilling Systems, Inc.
5/29/2015	5,684.00	0.70	67.00	5,682.19	98.70	Leam Drilling Systems, Inc.
5/29/2015	5,778.00	0.97	68.13	5,776.18	100.07	Leam Drilling Systems, Inc.
5/29/2015	5,872.00	0.70	67.52	5,870.17	101.44	Leam Drilling Systems, Inc.
5/29/2015	5,967.00	0.88	103.03	5,965.16	102.69	Leam Drilling Systems, Inc.
5/29/2015	6,061.00	1.49	241.90	6,059.15	103.52	Leam Drilling Systems, Inc.
5/29/2015	6,155.00	0.79	232.76	6,153.13	105.38	Leam Drilling Systems, Inc.
5/29/2015	6,250.00	0.53	219.05	6,248.12	106.47	Leam Drilling Systems, Inc.
5/29/2015	6,344.00	0.44	163.15	6,342.12	107.17	Leam Drilling Systems, Inc.
5/29/2015	6,438.00	0.44	140.30	6,436.12	107.88	Leam Drilling Systems, Inc.
5/29/2015	6,532.00	0.44	132.74	6,530.11	108.60	Leam Drilling Systems, Inc.
5/29/2015	6,627.00	0.44	121.84	6,625.11	109.33	Leam Drilling Systems, Inc.
5/29/2015	6,721.00	0.53	117.09	6,719.11	110.12	Leam Drilling Systems, Inc.
5/29/2015	6,815.00	0.97	256.66	6,813.10	110.67	Leam Drilling Systems, Inc.
5/30/2015	6,909.00	0.53	282.15	6,907.10	111.87	Leam Drilling Systems, Inc.
5/30/2015	7,004.00	0.26	36.41	7,002.09	112.27	Leam Drilling Systems, Inc.
5/30/2015	7,098.00	0.18	80.36	7,096.09	112.61	Leam Drilling Systems, Inc.
5/30/2015	7,192.00	0.35	81.94	7,190.09	113.04	Leam Drilling Systems, Inc.

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5/30/2015	7,287.00	0.26	97.76	7,285.09	113.54	Leam Drilling Systems, Inc.
5/30/2015	7,381.00	0.35	141.35	7,379.09	114.01	Leam Drilling Systems, Inc.
5/30/2015	7,475.00	0.35	145.75	7,473.09	114.58	Leam Drilling Systems, Inc.
5/30/2015	7,570.00	0.53	141.35	7,568.09	115.31	Leam Drilling Systems, Inc.
5/30/2015	7,664.00	0.44	145.92	7,662.08	116.11	Leam Drilling Systems, Inc.
5/30/2015	7,758.00	0.35	150.84	7,756.08	116.75	Leam Drilling Systems, Inc.
5/30/2015	7,852.00	1.67	190.04	7,850.06	118.36	Leam Drilling Systems, Inc.
5/31/2015	7,947.00	10.73	204.98	7,944.41	128.56	Leam Drilling Systems, Inc.
5/31/2015	8,056.00	21.02	203.75	8,049.11	158.34	Leam Drilling Systems, Inc.
6/1/2015	8,151.00	27.52	203.23	8,135.67	197.37	Leam Drilling Systems, Inc.
6/1/2015	8,245.00	33.59	198.48	8,216.59	245.10	Leam Drilling Systems, Inc.
6/1/2015	8,340.00	42.03	194.61	8,291.59	303.26	Leam Drilling Systems, Inc.
6/1/2015	8,434.00	51.79	190.92	8,355.74	371.80	Leam Drilling Systems, Inc.
6/1/2015	8,528.00	60.67	190.92	8,407.94	449.86	Leam Drilling Systems, Inc.
6/1/2015	8,622.00	68.76	191.80	8,448.06	534.78	Leam Drilling Systems, Inc.
6/1/2015	8,716.00	77.91	193.21	8,474.99	624.74	Leam Drilling Systems, Inc.
6/1/2015	8,811.00	88.81	193.21	8,485.95	718.96	Leam Drilling Systems, Inc.
6/1/2015	8,905.00	90.75	193.21	8,486.31	812.95	Leam Drilling Systems, Inc.
6/1/2015	8,999.00	91.19	192.33	8,484.72	906.94	Leam Drilling Systems, Inc.
6/1/2015	9,094.00	91.10	189.69	8,482.82	1,001.91	Leam Drilling Systems, Inc.
6/1/2015	9,188.00	91.19	187.93	8,480.95	1,095.89	Leam Drilling Systems, Inc.
6/1/2015	9,282.00	91.01	190.04	8,479.14	1,189.86	Leam Drilling Systems, Inc.
6/1/2015	9,376.00	88.72	189.16	8,479.36	1,283.86	Leam Drilling Systems, Inc.
6/1/2015	9,471.00	88.29	186.18	8,481.84	1,378.81	Leam Drilling Systems, Inc.
6/2/2015	9,565.00	88.55	182.13	8,484.43	1,472.76	Leam Drilling Systems, Inc.
6/2/2015	9,659.00	88.46	179.14	8,486.89	1,566.72	Leam Drilling Systems, Inc.
6/2/2015	9,754.00	89.08	180.90	8,488.93	1,661.69	Leam Drilling Systems, Inc.
6/2/2015	9,848.00	91.19	180.02	8,488.71	1,755.68	Leam Drilling Systems, Inc.
6/2/2015	9,942.00	90.57	179.32	8,487.26	1,849.67	Leam Drilling Systems, Inc.
6/2/2015	10,036.00	90.31	178.79	8,486.54	1,943.67	Leam Drilling Systems, Inc.
6/2/2015	10,131.00	90.75	177.91	8,485.66	2,038.66	Leam Drilling Systems, Inc.
6/2/2015	10,225.00	91.36	177.91	8,483.93	2,132.65	Leam Drilling Systems, Inc.
6/2/2015	10,319.00	90.40	178.79	8,482.49	2,226.63	Leam Drilling Systems, Inc.
6/2/2015	10,413.00	89.87	180.73	8,482.27	2,320.63	Leam Drilling Systems, Inc.
6/2/2015	10,508.00	89.08	178.79	8,483.14	2,415.62	Leam Drilling Systems, Inc.
6/2/2015	10,602.00	91.10	183.89	8,482.99	2,509.58	Leam Drilling Systems, Inc.
6/2/2015	10,696.00	90.31	184.42	8,481.83	2,603.57	Leam Drilling Systems, Inc.
6/2/2015	10,790.00	89.96	184.42	8,481.61	2,697.57	Leam Drilling Systems, Inc.
6/2/2015	10,885.00	86.88	183.19	8,484.23	2,792.52	Leam Drilling Systems, Inc.
6/2/2015	10,979.00	88.46	181.43	8,488.05	2,886.44	Leam Drilling Systems, Inc.
6/2/2015	11,073.00	88.37	180.90	8,490.65	2,980.40	Leam Drilling Systems, Inc.
6/2/2015	11,168.00	90.84	181.43	8,491.31	3,075.39	Leam Drilling Systems, Inc.
6/3/2015	11,262.00	92.07	181.43	8,488.92	3,169.36	Leam Drilling Systems, Inc.
6/3/2015	11,356.00	90.84	178.97	8,486.53	3,263.32	Leam Drilling Systems, Inc.
6/3/2015	11,451.00	91.28	178.97	8,484.77	3,358.31	Leam Drilling Systems, Inc.
6/3/2015	11,545.00	92.42	178.79	8,481.74	3,452.26	Leam Drilling Systems, Inc.
6/3/2015	11,639.00	90.57	179.50	8,479.29	3,546.22	Leam Drilling Systems, Inc.
6/3/2015	11,734.00	91.19	178.62	8,477.83	3,641.21	Leam Drilling Systems, Inc.
6/3/2015	11,828.00	91.45	179.32	8,475.66	3,735.18	Leam Drilling Systems, Inc.
6/3/2015	11,922.00	90.22	180.55	8,474.29	3,829.17	Leam Drilling Systems, Inc.
6/3/2015	12,016.00	90.66	179.85	8,473.57	3,923.16	Leam Drilling Systems, Inc.
6/3/2015	12,111.00	90.31	180.20	8,472.77	4,018.16	Leam Drilling Systems, Inc.
6/3/2015	12,205.00	90.31	182.13	8,472.26	4,112.15	Leam Drilling Systems, Inc.
6/3/2015	12,299.00	90.92	182.66	8,471.25	4,206.15	Leam Drilling Systems, Inc.
6/3/2015	12,393.00	92.42	183.01	8,468.51	4,300.10	Leam Drilling Systems, Inc.
6/3/2015	12,488.00	90.84	182.66	8,465.81	4,395.06	Leam Drilling Systems, Inc.

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6/3/2015	12,582.00	91.80	182.48	8,463.64	4,489.04	Leam Drilling Systems, Inc.
6/3/2015	12,676.00	89.34	182.31	8,462.71	4,583.03	Leam Drilling Systems, Inc.
6/3/2015	12,771.00	87.32	180.73	8,465.48	4,677.98	Leam Drilling Systems, Inc.
6/3/2015	12,865.00	88.20	180.20	8,469.15	4,771.90	Leam Drilling Systems, Inc.
6/3/2015	12,959.00	89.78	180.55	8,470.81	4,865.89	Leam Drilling Systems, Inc.
6/3/2015	13,054.00	89.96	179.14	8,471.02	4,960.88	Leam Drilling Systems, Inc.
6/3/2015	13,148.00	88.02	179.67	8,472.68	5,054.86	Leam Drilling Systems, Inc.
6/4/2015	13,242.00	89.34	181.96	8,474.85	5,148.83	Leam Drilling Systems, Inc.
6/4/2015	13,336.00	89.96	181.96	8,475.42	5,242.83	Leam Drilling Systems, Inc.
6/4/2015	13,430.00	89.69	182.48	8,475.71	5,336.83	Leam Drilling Systems, Inc.
6/4/2015	13,525.00	90.40	181.43	8,475.63	5,431.83	Leam Drilling Systems, Inc.
6/4/2015	13,619.00	89.69	182.31	8,475.56	5,525.82	Leam Drilling Systems, Inc.
6/4/2015	13,713.00	90.84	181.78	8,475.12	5,619.82	Leam Drilling Systems, Inc.
6/4/2015	13,808.00	89.78	183.19	8,474.61	5,714.82	Leam Drilling Systems, Inc.
6/4/2015	13,902.00	88.46	183.54	8,476.05	5,808.80	Leam Drilling Systems, Inc.
6/4/2015	13,996.00	88.11	182.48	8,478.87	5,902.76	Leam Drilling Systems, Inc.
6/4/2015	14,091.00	88.46	181.60	8,481.71	5,997.72	Leam Drilling Systems, Inc.
6/4/2015	14,185.00	89.52	181.08	8,483.37	6,091.70	Leam Drilling Systems, Inc.
6/4/2015	14,279.00	88.37	180.90	8,485.10	6,185.68	Leam Drilling Systems, Inc.
6/4/2015	14,374.00	89.43	180.73	8,486.92	6,280.66	Leam Drilling Systems, Inc.
6/4/2015	14,468.00	90.22	181.25	8,487.21	6,374.66	Leam Drilling Systems, Inc.
6/4/2015	14,562.00	89.43	180.90	8,487.50	6,468.66	Leam Drilling Systems, Inc.
6/4/2015	14,657.00	89.78	180.55	8,488.15	6,563.66	Leam Drilling Systems, Inc.
6/4/2015	14,751.00	88.29	182.31	8,489.73	6,657.64	Leam Drilling Systems, Inc.
6/5/2015	14,846.00	87.58	182.84	8,493.16	6,752.58	Leam Drilling Systems, Inc.
6/5/2015	14,941.00	88.81	183.36	8,496.15	6,847.53	Leam Drilling Systems, Inc.
6/5/2015	15,035.00	89.43	182.84	8,497.59	6,941.51	Leam Drilling Systems, Inc.
6/5/2015	15,129.00	88.29	183.01	8,499.46	7,035.49	Leam Drilling Systems, Inc.
6/5/2015	15,224.00	88.20	183.36	8,502.37	7,130.45	Leam Drilling Systems, Inc.
6/5/2015	15,318.00	87.23	180.90	8,506.12	7,224.37	Leam Drilling Systems, Inc.
6/5/2015	15,412.00	87.32	178.79	8,510.59	7,318.25	Leam Drilling Systems, Inc.
6/5/2015	15,507.00	86.97	178.09	8,515.32	7,413.14	Leam Drilling Systems, Inc.
6/5/2015	15,601.00	89.34	178.79	8,518.35	7,507.08	Leam Drilling Systems, Inc.
6/5/2015	15,695.00	89.43	177.39	8,519.36	7,601.07	Leam Drilling Systems, Inc.
6/6/2015	15,790.00	89.52	177.91	8,520.23	7,696.07	Leam Drilling Systems, Inc.
6/6/2015	15,884.00	88.90	177.21	8,521.52	7,790.06	Leam Drilling Systems, Inc.
6/6/2015	15,978.00	90.31	178.62	8,522.17	7,884.05	Leam Drilling Systems, Inc.
6/6/2015	16,072.00	91.45	178.44	8,520.73	7,978.04	Leam Drilling Systems, Inc.
6/6/2015	16,166.00	92.51	180.37	8,517.48	8,071.98	Leam Drilling Systems, Inc.
6/6/2015	16,261.00	91.98	181.08	8,513.76	8,166.90	Leam Drilling Systems, Inc.
6/7/2015	16,355.00	90.84	181.78	8,511.45	8,260.87	Leam Drilling Systems, Inc.
6/7/2015	16,450.00	90.66	182.31	8,510.20	8,355.86	Leam Drilling Systems, Inc.
6/7/2015	16,544.00	90.66	183.19	8,509.12	8,449.86	Leam Drilling Systems, Inc.
6/7/2015	16,638.00	91.54	182.31	8,507.31	8,543.84	Leam Drilling Systems, Inc.
6/7/2015	16,732.00	92.77	181.43	8,503.78	8,637.77	Leam Drilling Systems, Inc.
6/9/2015	16,825.00	88.29	181.43	8,502.92	8,730.74	Leam Drilling Systems, Inc.
6/9/2015	16,919.00	87.85	181.78	8,506.09	8,824.69	Leam Drilling Systems, Inc.
6/9/2015	17,014.00	89.78	181.08	8,508.05	8,919.66	Leam Drilling Systems, Inc.
6/9/2015	17,108.00	91.63	182.13	8,506.89	9,013.65	Leam Drilling Systems, Inc.
6/9/2015	17,202.00	92.33	181.96	8,503.65	9,107.59	Leam Drilling Systems, Inc.
6/9/2015	17,297.00	92.33	182.84	8,499.78	9,202.51	Leam Drilling Systems, Inc.
6/9/2015	17,391.00	89.52	181.60	8,498.27	9,296.49	Leam Drilling Systems, Inc.
6/9/2015	17,486.00	89.96	180.20	8,498.70	9,391.49	Leam Drilling Systems, Inc.
6/9/2015	17,580.00	89.87	178.62	8,498.84	9,485.48	Leam Drilling Systems, Inc.
6/9/2015	17,674.00	90.57	181.08	8,498.48	9,579.47	Leam Drilling Systems, Inc.
6/9/2015	17,768.00	90.75	183.19	8,497.39	9,673.46	Leam Drilling Systems, Inc.

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Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
6/9/2015	17,863.00	91.10	182.48	8,495.86	9,768.45	Leam Drilling Systems, Inc.
6/10/2015	17,957.00	91.71	182.13	8,493.55	9,862.42	Leam Drilling Systems, Inc.
6/10/2015	18,052.00	89.78	181.78	8,492.32	9,957.41	Leam Drilling Systems, Inc.
6/10/2015	18,146.00	89.87	180.73	8,492.61	10,051.41	Leam Drilling Systems, Inc.
6/10/2015	18,240.00	89.87	178.97	8,492.82	10,145.40	Leam Drilling Systems, Inc.
6/10/2015	18,355.00	90.48	178.62	8,492.47	10,260.40	Leam Drilling Systems, Inc.
6/10/2015	18,429.00	91.10	177.03	8,491.45	10,334.39	Leam Drilling Systems, Inc.
6/10/2015	18,523.00	92.42	176.51	8,488.56	10,428.34	Leam Drilling Systems, Inc.
6/10/2015	18,617.00	93.30	175.28	8,483.87	10,522.22	Leam Drilling Systems, Inc.
6/10/2015	18,698.00	93.30	175.28	8,479.21	10,603.09	Leam Drilling Systems, Inc.