

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

API/UWI 42-383-38236-0000	Property Sub 927549-007	Operator PIONEER NATURAL RESRC USA, INC	State TEXAS	County REAGAN
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Field Name SPRABERRY (TREND AREA)	Surface Legal Location 2145' FNL/ 1165' FWL, SEC: 12, BLK: 10, TWP: , SVY: University Lands
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Spud Date 5/1/2013	TD Date 6/11/2013	Drilling Rig Release Date 6/15/2013	Frac Date 6/24/2013	On Production Date 8/31/2013	Initial Potential Date 9/18/2013
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Ground Elevation (ft) 2,642.00	Original KB Elevation (ft) 2,668.00	PBTD (All) (ftGRD)	Total Depth (All) (ftGRD) Original Hole - 16,345.0	Total Depth All (TVD) (ftGRD) Original Hole - 8,286.6
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Report #: 1 Daily Operation: 4/30/2013 18:00 - 5/1/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 026472
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Days From Spud (days) 0	Days on Location (days) 1	End Depth (ftGRD) -26.0	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig H & P, 497
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Operations Summary
Skid Rig, Rig Up rig up floor and ground

Remarks
Skid Rig xx xx
Accepted rig:4/30/13 @ 18:00

Spudded well: 00:00, on xxxx
Surface hole 100%
Intermediate: 00.00%
Production: 00.00%

TD Surface: xx, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Days since spud: 0.0

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
4/30/2013 18:00	4/30/2013 23:30	5.5	SURFACE - SKID	SKID RIG	SKID	Prepare to skid rig, add additional skid rails, remove mouse hole, hang off cellar covers, hang off pit stairs, prepare floor, remove derrick climber line, lubricate rails, hold pre job safety meeting and JSA, and do final walk around.
4/30/2013 23:30	5/1/2013 02:00	2.5	SURFACE - SKID	SKID RIG	SKID	Skid from 30 ft. Verify center over hole with string line and plumb bob. Problems through out skid was tight fit claw holes on skid rails and miss alignment on rails.
5/1/2013 02:00	5/1/2013 06:00	4	SURFACE - SKID	SKID RIG	SKID	Rig up, install cellar covers, mouse hole, set stairs, change out bales, elevators, hook up vibrating lines, electric lines, derrick climber lines, cellar pumps, set racks, and prepare to pick up bha.

Report #: 2 Daily Operation: 5/1/2013 06:00 - 5/2/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 026472
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Days From Spud (days) 1	Days on Location (days) 2	End Depth (ftGRD) 629.0	End Depth (TVD) (ftGRD) 629.0	Dens Last Mud (lb/gal) 8.30	Rig H & P, 497
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Operations Summary
Drill surface, trip out of hole and run 13 3/8 casing, cement and wait on cement

Remarks
Skid Rig 5/1/2013 @ 02:00
Accepted rig:xxxx @ xxxx

Spudded well: 08:30, on 5/1/2013
Surface hole 100%
Intermediate: 00.00%
Production: 00.00%

TD Surface: xx, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Days since spud: 0.0

Drilling & Completion Summary - Ascending

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Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/1/2013 06:00	5/1/2013 07:00	1	PLAN	PERS	SFTY	Safety shut down. Talked about near-misses that have accoured in the past couple of months and the Perimid of safety. How that when you have so many near misses how its almost a guarantee someone is going to be hurt seriously.
5/1/2013 07:00	5/1/2013 08:30	1.5	PLAN	EQUIP	BHA	Make up bit, shock sub, and 8' collars. Test lines and level derrick
5/1/2013 08:30	5/1/2013 13:00	4.5	SURF-DRILL	DRILL SURFACE	DRL	Rotate 100' @ 25' FPH wob 10 rpm 70 pp 250 spm 110 gpm 421 diff 50
5/1/2013 13:00	5/1/2013 13:30	0.5	PLAN	DRLG	DEVSUR	Deviation @ 240 = .53 deg
5/1/2013 13:30	5/1/2013 16:30	3	SURF-DRILL	DRILL SURFACE	DRL	Rotate 245' @ 81.6' FPH wob 15 rpm 80 pp 250 spm 110 gpm 421 diff 50
5/1/2013 16:30	5/1/2013 17:00	0.5	PLAN	DRLG	DEVSUR	Deviation @ 484 = 0.52 deg
5/1/2013 17:00	5/1/2013 19:00	2	SURF-DRILL	DRILL SURFACE	DRL	Rotate 169' @ 84.5 FPH wob 25 rpm 80 pp 400 spm 140 gpm 536 diff 50
5/1/2013 19:00	5/1/2013 20:00	1	SURF-CIRC	CIRCULATE	CIRC	Circulate high vis sweep out of hole. PP 300 spm 140 gpm 536.
5/1/2013 20:00	5/1/2013 20:30	0.5	SURF-TRIP	TOOH	TRIP	Trip out of hole to stabilizer and shock sub.
5/1/2013 20:30	5/1/2013 21:00	0.5	PLAN	EQUIP	BHA	Lay down shock sub, stabilizer bit and bit sub.
5/1/2013 21:00	5/2/2013 01:30	4.5	SURF-CASE	RUN SURFACE CASING	CASE	Hold safety meeting with Express, H&P employees and Pioneer company men. Rig up casing crew and run casing. Rig down casing crew. Ran 18 joints of 48# J-55 STC 13 3/8 casing with 6 centrizers located at 1 on shoe joint with stop wring, 1 on second joint and every 4th joint to 599'. with 4' stick up. Shoe located @ 645 float collar @ 604.
5/2/2013 01:30	5/2/2013 02:30	1	SURF-CIRC	CIRCULATE	CIRC	Circulate casing w/ 60 spm gpm 229 pp 225
5/2/2013 02:30	5/2/2013 05:00	2.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Rig up Schlumberger, Hold Safety Meeting and Pre-Job JSA, Rig up cementers and cement 13 3/8 casg. Tail: 720 sks of class "C" cement (94 lbs per sack of blend) @ 13.60 lb/gal, Yield 1.71 ft3 /sk, mix fluid 8.940 gal/sk total volume 219.3 bbl's. Additives D020 Extender 4.0% BWOB and S001 calcium chloride 2.0% BWOB. Total of 65 bbl's back to surface and full returns through whole job. Bumped plug @ 04:00. Plug bumped to 1,200 psi hold for 10 minutes and release. Floats holding. Rig down Schlumberger.
5/2/2013 05:00	5/2/2013 06:00	1	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Wait on cement

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 3 Daily Operation: 5/2/2013 06:00 - 5/3/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
2	3	629.0	629.0	8.30	H & P, 497	

Operations Summary
Install Well Head, Nipple up BOPs & test.

Remarks
Skid Rig4/30/2013 @ 23:30
Accepted rig 06:00 @ 5-1-13
NPT for moth of May = 0

Spudded well: 08:30, on 5/1/2013
Surface hole 100%
Intermediate: 00.00%
Production: 00.00%

TD Surface:19:00, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Days since spud: 1.89

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/2/2013 06:00	5/2/2013 07:30	1.5	SURF-CMT	CEMENT SURFACE CASING	CMT	Wait on Cement
5/2/2013 07:30	5/2/2013 11:00	3.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Held Safety Meeting- Cut off 13 3/8" Casing & lay down same. Install & Tack weld Multi Bowl Casing Head. Seaboard 13 3/8" sow x 13 5/8" 5m.
5/2/2013 11:00	5/2/2013 12:30	1.5	SURF-LOG	LOG	LOG	Held Safety Meeting- Rig up Logging tools. Run Gyro Tool.
5/2/2013 12:30	5/2/2013 13:00	0.5	SURF-LOG	LOG	LOG	Rig down Logging tools.
5/2/2013 13:00	5/2/2013 14:30	1.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Finish welding on Multi Bowl Casing Head with Chris Burns welding and Seaboard supervision.
5/2/2013 14:30	5/2/2013 15:00	0.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Test Well Head to 350 psi for 30 min with no loss of pressure. Seaboard supervisor singed off on test.
5/2/2013 15:00	5/3/2013 05:00	14	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Hold safety meeting on hoisting B.O.P and over head objects. Install B.O.P and torque with greens nipple up crew. Pick up flow line. The flow line set up needs to be put in place before ever drilling surface hole. Where we run the flow line there is very little to no room to work with fork lift. Suggestion is we install chain falls on sub hooked to pad eyes and leave in place. When we move rig in all we will have to do is set the flow line inside the sub and pick up with the chain falls, instead of leaving hanging setting up a potential safety hazard. Modify flow nipple and flow line with Chris Burns welding and install. Install snub lines to stack, hook up closing unit lines, kill line., stand pipe line for kill line(Hard Lined) Pressure up closing unit and function test B.O.P. (NOTE: Working on draw works drum replacing and re locating kick pads and working on crown-o-matic sensor. Work being done by mechanics and electricians)
5/3/2013 05:00	5/3/2013 06:00	1	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Rig up Greens Energy group hold safety meeting. Pick up test plug and start testing B.O.P.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 4 Daily Operation: 5/3/2013 06:00 - 5/4/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
3	4	1,185.0	1,185.0	8.80	H & P, 497			

Operations Summary
Test B.O.P's, pick up BHA, drill cement and drill Intermediate

Remarks
Skid Rig4/30/2013 @ 23:30
Accepted rig 06:00 @ 5-1-13
NPT for moth of May = 1

Spudded well: 08:30, on 5/1/2013
Surface hole 100%
Intermediate:6.0 %
Production: 00.00%

TD Surface:19:00, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: 2.7 ahead

Days since spud: 2.89

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/3/2013 06:00	5/3/2013 08:00	2	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Tighten up doors on blinds and pipe rams
5/3/2013 08:00	5/3/2013 08:30	0.5	PROD1	SHARE	SFTY	Hold safety meeting with Greens and rig hands on testing procedures.
5/3/2013 08:30	5/3/2013 15:30	7	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Test B.O.P. test annular pipe rams, blind rams, grey valve, choke manifold, super choke, stand pipe and pumps 250 low and 2,500 high.
5/3/2013 15:30	5/3/2013 16:00	0.5	SURF-NU/TEST-SURF	NIPPLE UP/TEST	NU/TEST	Finish Nipple up, Install Fill Up Line & Mud Bucket hoses. Hammer up flange on Bell Nipple.
5/3/2013 16:00	5/3/2013 17:00	1	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Work on Draw Works with mechanic. Had a fault caused from noise being picked up in the VFD house. Mechanic went through the traction motor and traced line back to VFD house. He consulted with head mechanic in Houston and it was determined the fault could be cleared by over ride. As the rig gets more running time the fault will clear up.
5/3/2013 17:00	5/3/2013 19:00	2	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	P/U Directional Tools, scribe Motor to UBHO sub and install wear bushing
5/3/2013 19:00	5/3/2013 19:30	0.5	PLAN	EQUIP	RIGSER	Rig Service
5/3/2013 19:30	5/3/2013 22:00	2.5	UNPLAN	OTHR	U_OTR	Wait on Tools. Cross over sub, NC56 x 6 5/8" reg. Came up short 1 x-over sub. Called J/A and had one delivered from Midland. The cross over went from directional tools to shock sub
5/3/2013 22:00	5/4/2013 01:00	3	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	P/U Directional Tools. Test Motor. TIH, tagged Cement @ 599'
5/4/2013 01:00	5/4/2013 01:30	0.5	PLAN	DRLG	DRLCMT	Drlg out cement & Float Equip. wob 8 rpm 50 pp 1200 spm 120 gpm 459 diff 100
5/4/2013 01:30	5/4/2013 06:00	4.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate 556' @ 278' FPH wob 20 rpm 60 pp1550 spm 130 gpm 500 diff 600

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 5 Daily Operation: 5/4/2013 06:00 - 5/5/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
4	5	3,017.0	3,016.8	9.20	H & P, 497			

Operations Summary
Drilled 12 1/4' intermediate section F/ 1,211' to 3,043' penetration rate erratic due to formation

Remarks
Skid Rig 4/30/2013 @ 23:30
Accepted Rig 5/1/2013 @ 06:00
NPT for month of May = 1.0 hr

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 48%, Curve: 0 %, Lateral: 0 %

TD Surface: 19:00, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 2,854' MD - 0.82 deg inc, 98.27 deg az; 14.6' North

Days since spud: 3.89

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/4/2013 06:00	5/4/2013 12:00	6	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 599' @ 99.89' ft/hr: 20 klb WOB, 65 TD RPM, 1300-1500 psi PP, 140 SPM, 536 GPM, 89 Motor RPM, 550 psi Diff P, 6 kft-lb TQ. Full returns while circulating through reserve
5/4/2013 12:00	5/4/2013 12:30	0.5	PLAN	EQUIP	RIGSER	Service top drive and HPU
5/4/2013 12:30	5/4/2013 13:00	0.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 96' @ 100' ft/hr: 20 klb WOB, 65 TD RPM, 1350 psi PP, 140 SPM, 536 GPM, 89 Motor RPM, 550 psi Diff P, 6 kft-lb TQ. Full returns while circulating through reserve
5/4/2013 13:00	5/4/2013 13:30	0.5	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Hole 8' @ 16 ft/hr: 15 klb WOB, 1350 psi PP, 536 GPM, 89 Motor RPM, 140 SPM, 100-500 psi Diff P, 150 deg TF. Full returns while circulating through reserve
5/4/2013 13:30	5/4/2013 16:00	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 136' @ 91' ft/hr: 20 klb WOB, 65 TD RPM, 1350 psi PP, 140 SPM, 536 GPM, 89 Motor RPM, 350-550 psi Diff P, 6 kft-lb TQ. Full returns while circulating through reserve
5/4/2013 16:00	5/4/2013 18:00	2	INT-CIRC	CIRCULATE	CIRC	Observed erratic Pump Pressure & Differential Pressure. Isolated each Mud Pump while circulating hole with other - checked valves & seats, suction screens, and both Charging Pumps - no issues found. Performed surface line pressure check from 4" Rig Floor Standpipe valve back to Mud Pumps - held 1000 psi for 5 min - no issues. Concluded erratic pressure due to MWD pulse - discussed with Directional Driller who says he normally gets back ~75 amps on pulses - currently getting back ~225 amps on pulses which may be causing issue
5/4/2013 18:00	5/4/2013 20:00	2	INT-DRILL-TAN	DRILL INT TANGENT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 190' @ 95' ft/hr: 25 klb WOB, 65 TD RPM, 1100-1500 psi PP, 140 SPM, 536 GPM, 89 Motor RPM, 350-550 psi Diff P, 7 kft-lb TQ. Full returns while circulating through reserve
5/4/2013 20:00	5/4/2013 23:30	3.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 292' @ 83' ft/hr: 25 klb WOB, 55 TD RPM, 1100-1500 psi PP, 130 SPM, 500 GPM, 83 Motor RPM, 450-650 psi Diff P, 7 kft-lb TQ. Full returns while circulating through reserve
5/4/2013 23:30	5/5/2013 02:30	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 284' @ 95' ft/hr: 25 klb WOB, 65 TD RPM, 1100-1500 psi PP, 140 SPM, 536 GPM, 89 Motor RPM, 350-550 psi Diff P, 7 kft-lb TQ. Full returns while circulating through reserve
5/5/2013 02:30	5/5/2013 03:30	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Hole 8' @ 8 ft/hr: 20 klb WOB, 1100-1500 psi PP, 536 GPM, 89 Motor RPM, 140 SPM, 350-450 psi Diff P, 270 deg TF. Full returns while circulating through reserve

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/5/2013 03:30	5/5/2013 06:00	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 118' @ 47.2' ft/hr: 25 klb WOB, 65 TD RPM, 1100-1500 psi PP, 140 SPM, 536 GPM, 89 Motor RPM, 350-550 psi Diff P, 7 kft-lb TQ. Full returns while circulating through reserve

Report #: 6 Daily Operation: 5/5/2013 06:00 - 5/6/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
5	6	3,114.0	3,113.8	9.60	H & P, 497	

Operations Summary

Drill 97' and circulate a sweep out of hole. TOOH and trouble shoot pump pressure issue. Change out MWD tool, motor, and bit. Test new directional tools - test failed (still having same issue). Change out all directional tools and test same - test good. TIH

Remarks

Skid Rig 4/30/2013 @ 23:30
Accepted Rig 5/1/2013 @ 06:00
Rig NPT for month of May = 1.0 hr

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 42%, Curve: 0 %, Lateral: 0 %

TD Surface: 19:00, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 3,043' MD - 0.01 deg inc, 293.93 deg az; 14.11' North, 4.22' East

Days since spud: 4.9

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/5/2013 06:00	5/5/2013 08:30	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 97' @ 63.6' ft/hr: 25k WOB, 65 TD RPM, 1300-1500 psi PP, 156 SPM, 598 GPM, 100 Motor RPM, 550 psi Diff P, 7k TQ. Full returns while circulating through reserve. (NOTE: While rotating differential pressure would spike from 100 psi to 700 psi exceeding motor specifications of 600 psi). Consulted with Field Supt Jess Arnold and it was determined we needed to T/O/H and check all directional tools.
5/5/2013 08:30	5/5/2013 09:30	1	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Pump high vis sweep @ 156 SPM / 598 GPM and circulate out of hole. Hold safety meeting on tripping pipe and handling jars. Prepare to TOOH due to pump pressure fluctuations - unable to drill due to max Diff P spikes
5/5/2013 09:30	5/5/2013 15:30	6	UNPLANNED	TOOH	U_MWD	TOOH wet to 460' MD while looking for any cracks or washouts that may have been causing pressure fluctuation
5/5/2013 15:30	5/5/2013 16:00	0.5	UNPLANNED	CIRCULATE	U_MWD	M/U TDS and test MWD tool - fluctuations still observed. Tested jars - no bad seals or leaks observed. Tested with 130 SPM 497 GPM - Pump Pressure remained steady at ~600 psi for ~45-55 sec and then began fluctuating between 600-900 psi. MWD hand said his tool is set up to begin pulsing ~45-60 sec after breaking circulation
5/5/2013 16:00	5/5/2013 17:00	1	UNPLANNED	EQUIP	U_MWD	L/D MWD tool, stabilizer, bit and motor. Checked motor for slack at the bit box and observed no extra movement. Drained motor and checked for noise indicating bad bearings or restriction - no issues observed
5/5/2013 17:00	5/5/2013 18:00	1	UNPLANNED	EQUIP	U_MWD	P/U new MM, stabilizer, UBHO sub with a larger orifice installed (changed from a 6 to an 8), and NMDC. Scribe MM and install MWD tool. M/U shock sub and test. Test MWD tool @ 130 SPM / 498 GPM with 350 psi PP for 45-50 sec. Pump pressure started to fluctuate from 350-750. Test indicated the same problem with high pressure fluctuations/spikes - MWD still seeing strong pulses (~500 psi). Contacted Field Supt Jess Arnold and informed him that the problem still remained. MWD was informed that we would go no farther without correcting the problem.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/5/2013 18:00	5/5/2013 18:30	0.5	UNPLANNED	EQUIP	U_MWD	Remove shock sub and install pump-in sub on top of the monel collar. M/U TDS and test MWD with 130 SPM / 498 GPM - PP still fluctuating between 350 - 750 psi after 45 sec (100-400 psi pressure spikes still observed).
5/5/2013 18:30	5/5/2013 19:00	0.5	UNPLANNED	EQUIP	U_MWD	TOOH to UBHO sub. Remove MWD tool and test with 130 SPM / 498 GPM - PP holding steady at 350 psi (no pressure spikes observed)
5/5/2013 19:00	5/5/2013 20:30	1.5	UNPLANNED	EQUIP	U_MWD	L/D 8" monel collars x2, MWD tool, and UBHO sub
5/5/2013 20:30	5/6/2013 01:00	4.5	UNPLANNED	OTHR	U_MWD	Wait on new Directional Tools
5/6/2013 01:00	5/6/2013 03:30	2.5	UNPLANNED		U_MWD	Strap new directional tools, P/U & M/U 12-1/4" Directional BHA w/o bit. Scribe MM & MWD and surface test same. Test with 130 SPM / 498 GPM - observed 425 psi steady PP for 45 sec until MWD tool began pulsing - pulses averaged 150 psi spikes with PP ranging from 410-560 psi. Discussed with Pathfinder MWD specialist and Field Supt Jess Arnold - decision made to TIH
5/6/2013 03:30	5/6/2013 06:00	2.5	UNPLANNED		U_MWD	M/U bit and remainder of BHA. TIH to 2000' MD

Report #: 7 Daily Operation: 5/6/2013 06:00 - 5/7/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
6	7	3,734.0	3,733.8	9.50	H & P, 497	

Operations Summary

TIH w/ Intermediate BHA #2. Drill 12-1/4" Intermediate Hole f/3140' MD t/3760'MD. TOOH due to low ROP

Remarks

Skid Rig 4/30/2013 @ 23:30
Accepted Rig 5/1/2013 @ 06:00
Rig NPT for month of May = 2.5 hr

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 49.8%, Curve: 0 %, Lateral: 0 %

TD Surface: 19:00, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 3617' MD - 0.26 deg inc, 148.24 deg az; 14.39' North, 5.75' East

Days since spud: 5.9

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/6/2013 06:00	5/6/2013 08:00	2	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	Break circulation and test MWD @ 2000' MD - test good. TIH f/2000' MD t/2954' MD breaking circulation @ 2620' MD. Proper fill strokes recorded
5/6/2013 08:00	5/6/2013 08:30	0.5	INT-W&R	WASH & REAM	WASH_REAM	Wash and ream last 186' back to bottom. 1046 psi PP, 55 RPM, 140 spm, 536 gpm, 5k TQ. Full returns while circulating through reserve. Proper fill strokes recorded
5/6/2013 08:30	5/6/2013 11:30	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 100' @ 33.33' ft/hr: 30k WOB, 55 TD RPM, 1300-1500 psi PP, 140 spm, 536 gpm, 89 Motor RPM, 400-550 psi Diff P, 6k TQ. Full returns while circulating through reserve. Formation showing 75% sand 25% shale
5/6/2013 11:30	5/6/2013 12:30	1	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Re-calibrate MWD tool pulse from 0.4 to 0.8 sec. Make connection at 3242' MD - unable to pump up survey - tool would not sync. Re-sync pumps 3 times from 120 spm to 150 spm allowing tool to reset to the 0.8 setting. MWD tool working ok
5/6/2013 12:30	5/6/2013 14:00	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 106' @ 53.0' ft/hr: 30k WOB, 55 TD RPM, 1300-1500 psi PP, 140 spm, 536 gpm, 89 Motor RPM, 400-550 psi Diff P, 7k TQ. Full returns while circulating through reserve. Formation showing 30% sand 70% shale/limestone

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/6/2013 14:00	5/6/2013 15:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 80' @ 80.0' ft/hr: 25k WOB, 70 TD RPM, 1300-1400 psi PP, 140 spm, 536 gpm, 89 Motor RPM, 400-550 psi Diff P, 7k TQ. Full returns while circulating through reserve. Formation showing 25% sand 75% shale/limestone
5/6/2013 15:00	5/6/2013 16:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 31' @ 31.0' ft/hr: 25k WOB, 50 TD RPM, 1300-1500 psi PP, 160 spm, 612 gpm, 101 Motor RPM, 400-550 psi Diff P, 7k TQ. Full returns while circulating through reserve
5/6/2013 16:00	5/6/2013 18:00	2	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 64' @ 32.0 ft/hr: 25k WOB, 90 TD RPM, 1400-1500 psi PP, 160 spm, 612 gpm, 101 Motor RPM, 400-600 psi Diff P, 7-8k TQ. ROP not consistant - running from 30-88 ft/hr on instantaneous. Full returns while circulating through reserve
5/6/2013 18:00	5/6/2013 18:30	0.5	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig and top drive
5/6/2013 18:30	5/6/2013 19:00	0.5	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	TDS IBOP stopped functioning and became stuck in open position. Troubleshoot with H&P electrician and found the solenoid had shorted. Decision made to go back to drilling - rig floor TIW and closing wrench in place on rig floor and manual TDS IBOP closing wrench in doghouse
5/6/2013 19:00	5/6/2013 21:30	2.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 94' @ 37.6 ft/hr: 25k WOB, 80 TD RPM, 1400-1500 psi PP, 160 spm, 612 gpm, 101 Motor RPM, 400-600 psi Diff P, 7-8k TQ. ROP is not consistant - running from 30-88 ft/hr instantaneous. Full returns while circulating through reserve
5/6/2013 21:30	5/6/2013 22:30	1	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Installed new solenoid for TDS IBOP. Function tested IBOP - working ok
5/6/2013 22:30	5/7/2013 03:30	5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 143' @ 29 ft/hr: 25k WOB, 70 TD RPM, 1300-1500 psi PP, 162 spm, 620 gpm, 103 Motor RPM, 350 psi Diff P, 10k TQ. Full returns while circulating through reserve. ROP erratic and fluctuating between 25-45 ft/hr before decreasing to <20 ft/hr for last 1.5 hr. Contacted Field Supt Jess Arnold and decision made to TOO H due to low ROP
5/7/2013 03:30	5/7/2013 04:00	0.5	INT-CIRC	CIRCULATE	CIRC	Circulate and condition well in preparation for TOO H due to low ROP
5/7/2013 04:00	5/7/2013 06:00	2	INT-TRIP	TOOH	TRIP	TOOH f/3760' MD t/BHA'

Report #: 8 Daily Operation: 5/7/2013 06:00 - 5/8/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
7	8	4,305.0	4,304.8	9.50	H & P, 497			

Operations Summary

TIH w/ Intermediate BHA #3. Drill 12-1/4" Intermediate Hole f/3,670' MD t/4,331' MD

Remarks

Skid Rig 4/30/2013 @ 23:30
Accepted Rig 5/1/2013 @ 06:00
Rig NPT for month of May = 2.5 hr

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 57%, Curve: 0 %, Lateral: 0 %

TD Surface: 19:00, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 4331' MD - 0.6 deg inc, 70.29 deg az; 14.54' North, 9.69' East

Days since spud: 6.9

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/7/2013 06:00	5/7/2013 07:00	1	INT-TRIP	TOOH	TRIP	TOOH to directional tools
5/7/2013 07:00	5/7/2013 10:30	3.5	PLAN	EQUIP	BHA	L/D 12" stabilizer, MWD tool, UBHO sub, bit, and MM. Change MWD orifice in UBHO sub back to a 7 and install new UBHO sleeve. P/U new MM - remove near bit stabilizer and install slick sleeve. Scribe MM and UBHO and install new MWD tool. M/U TDS to directional BHA and perform surface test w/o bit. Tested with 1039 psi PP, 160 spm, 612 gpm, and observed 200 psi pulses
5/7/2013 10:30	5/7/2013 11:00	0.5	PLAN	PERS	SFTY	Hold safety meeting on TIH and tailing pipe
5/7/2013 11:00	5/7/2013 12:00	1	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH to 2000' MD and break circulation w/ 130 spm, 498 gpm, 1100 psi PP
5/7/2013 12:00	5/7/2013 14:30	2.5	INT-TRIP IN HOLE	TRIP IN HOLE	TIH	TIH f/2,000' MD t/3,620' MD - hole clean/no issues
5/7/2013 14:30	5/7/2013 15:00	0.5	INT-W&R	WASH & REAM	WASH_R EAM	Break circulation and wash & ream f/3,679' MD t/3,760' MD w/ 160 spm, 612 gpm, 1100 psi PP
5/7/2013 15:00	5/7/2013 18:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 138' @ 46.0' ft/hr: 30k WOB, 75 TD RPM, 1500-1650 psi PP, 160 spm, 612 gpm, 102 Motor RPM, 400-550 psi Diff P, 6k TQ. Pumping 20 bbl high vis sweeps w/ 5 lb/bbl walnut. Pumped 1 soap stick and 1 poly stick down the pipe every 90'. Full returns while circulating through reserve.
5/7/2013 18:00	5/7/2013 20:00	2	INT-DRILL-VERT		DRL-ROT	Rotate Drill 12-1/4" Hole 43' @ 21.5 ft/hr: 28k WOB, 80 TD RPM, 1600-1800psi PP, 160 spm, 613 gpm, 102 Motor RPM, 300-500 psi Diff P, 6k TQ. Pumping 20 bbl high vis sweeps w/ 5 lb/bbl walnut. Pumped 1 soap stick and 1 poly stick down the pipe every 90'. Circulating reserve with full returns.
5/7/2013 20:00	5/8/2013 00:00	4	INT-DRILL-VERT		DRL-ROT	Rotate Drill 12-1/4" Hole 241' @ 60 ft/hr: 34k WOB, 50 TD RPM, 1600-1800psi PP, 160 spm, 613 gpm, 102 Motor RPM, 200-400 psi Diff P, 6k. Pumping 20 bbl high vis sweeps w/ 5 lb/bbl walnut. Pumped 1 soap stick down the pipe every 90'. Circulating reserve with full returns.
5/8/2013 00:00	5/8/2013 00:30	0.5	UNPLANNED	Rig Repair (CODE 8, Rig Repair)	U_RIG	Change out oiler pump
5/8/2013 00:30	5/8/2013 01:00	0.5	INT-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service Rig
5/8/2013 01:00	5/8/2013 03:30	2.5	INT-DRILL-VERT		DRL-ROT	Rotate Drill 12-1/4" Hole 149' @ 60 ft/hr: 34k WOB, 50 TD RPM, 1600-1800psi PP, 160 spm, 613 gpm, 102 Motor RPM, 250-400 psi Diff P, 6-7k TQ. Full returns while circulating through reserve. Begin displacing with fresh water gel mud @ ~4230' MD while taking returns to reserve. Premix transfer pumps not able to keep up with mud pumps - shut down circulation to catch up (15 mins). After resuming circulation, transferr pumps still unable to keep up - shut down again (10 mins). Begin pumping fresh water from reserve to active - no more issues with keeping suction pits full during displacement. Reciprocated DP entire time while shut down
5/8/2013 03:30	5/8/2013 05:00	1.5	PLAN	WLCOND	CIRC	Complete displacement of fresh water gel mud and begin taking returns over shakers. Cuttings trough immediately plugged off with cuttings. Shut down circulation while reconfiguring cuttings trough and PVC line to reserve - reciprocating DP while shut down Note: STS stks calc'd @ ~6542; actual mud returns observed after ~12250 stks -- estimated OH enlargement 119% (17.3" equivalent hole diameter)
5/8/2013 05:00	5/8/2013 06:00	1	PLAN	WLCOND	CIRC	Circulate hole clean and complete modifications to cuttings trough

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 9 Daily Operation: 5/8/2013 06:00 - 5/9/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
8	9	5,861.0	5,860.7	8.80	H & P, 497			

Operations Summary

Drill 12-1/4" Intermediate Hole f/4,331' MD t/5,887' MD

Remarks

Skid Rig 4/30/2013 @ 23:30
Accepted Rig 5/1/2013 @ 06:00
Rig NPT for month of May = 3 hr

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 75.8%, Curve: 0 %, Lateral: 0 %
Corrosion ring installed 5/1/2013 @ 8:30 (cum 189.5 hrs)

TD Surface: 19:00, on 5/1/13
TD Intermediate: xx, on xxxx
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 5,887' MD - 0.76 deg inc, 78.28 deg az; 15.34' North, 16.29' East

Days since spud: 7.9

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/8/2013 06:00	5/8/2013 09:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 194' @ 64.66 ft/hr: 35k WOB, 55 TD RPM, 1650 psi PP, 160 spm, 613 gpm, 102 Motor RPM, 325 psi Diff P, 6-7k TQ. Full returns while circulating through pits. Vis 30 WT 8.9. Pump 15 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/8/2013 09:00	5/8/2013 12:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 181' @ 60.33 ft/hr: 35k WOB, 55 TD RPM, 1625 psi PP, 160 spm, 613 gpm, 102 Motor RPM, 300 psi Diff P, 8k TQ. Full returns while circulating through pits. Vis 30 WT 8.9. Pump 15 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/8/2013 12:00	5/8/2013 15:30	3.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 233' @ 66.5' ft/hr: 35k WOB, 55 TD RPM, 1650 psi PP, 160 spm, 613 gpm, 102 Motor RPM, 350 psi Diff P, 6-7k TQ. Full returns while circulating through pits. Vis 30 WT 8.9. Pump 15 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/8/2013 15:30	5/8/2013 16:30	1	PLAN	EQUIP	RIGSER	Rig Service - service top drive, crown saver, SPR & take survey. Run Pason cable to crown to track footage.
5/8/2013 16:30	5/8/2013 18:00	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 95' @ 63.3 ft/hr: 34k WOB, 55 TD RPM, 1600 psi PP, 160 spm, 613 gpm, 102 Motor RPM, 200 psi Diff P, 6k TQ. Full returns while circulating through pit's. Vis 30 WT 8.9. Pump 15 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/8/2013 18:00	5/8/2013 21:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 190' @ 63.3 ft/hr: 35k WOB, 60 TD RPM, 1650 psi PP, 160 spm, 613 gpm, 102 Motor RPM, 350 psi Diff P, 6.5k TQ. Full returns while circulating through pit's. Vis 33 WT 8.9. Pump 15 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/8/2013 21:00	5/9/2013 00:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 253' @ 84.3 ft/hr: 34k WOB, 60 TD RPM, 1650 psi PP, 160 spm, 613 gpm, 102 Motor RPM, 350 psi Diff P, 6.5k TQ. Full returns while circulating through pit's. Vis 34 WT 8.9. Pump 15 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/9/2013 00:00	5/9/2013 03:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 189' @ 63.0 ft/hr: 35k WOB, 70 TD RPM, 1300 psi PP, 130 spm, 500 gpm, 83 Motor RPM, 100 psi Diff P, 6.5k TQ. Began losing ~100 bph @ ~5505' MD - reduce spm and pump 40 bbl 10 ppb LCM sweep. Circulating through pits. Vis 30 WT 8.8. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut). Loses healed - lost total ~250 bbls

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/9/2013 03:00	5/9/2013 06:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 221' @ 73.7 ft/hr: 35k WOB, 70 TD RPM, 1300 psi PP, 130 spm, 500 gpm, 83 Motor RPM, 100 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 30 WT 8.8. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/9/2013 06:00	5/9/2013 09:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 221' @ 73.7 ft/hr: 35k WOB, 70 TD RPM, 1300 psi PP, 130 spm, 500 gpm, 83 Motor RPM, 100 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 30 WT 8.8. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)

Report #: 10 Daily Operation: 5/9/2013 06:00 - 5/10/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
9	10	7,126.0	7,125.5	8.70	H & P, 497	

Operations Summary

Drill 12-1/4" Intermediate Hole f/5,887' MD t/7,152' MD

Remarks

Skid Rig 4/30/2013 @ 23:30

Accepted Rig 5/1/2013 @ 06:00

Rig NPT for month of May = 3 hr

Spudded well: 5/1/2013 @ 08:30

Completion percentage: Surface: 100%, Intermediate: 94%, Curve: 0 %, Lateral: 0 %

Corrosion ring installed 5/1/2013 @ 8:30 (cum 213.5 hrs)

TD Surface: 19:00, on 5/1/13

TD Intermediate: xx, on xxxx

Landed curve: xxxx, on xx/xx/xxxx

TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 7,152' MD - 0.97 deg inc, 100.49 deg az; 16.10' North, 37.81' East

Days since spud: 8.9

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/9/2013 06:00	5/9/2013 09:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 178' @ 73.7 ft/hr: 35k WOB, 70 TD RPM, 1300 psi PP, 130 spm, 500 gpm, 83 Motor RPM, 400 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 39 WT 8.8. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut).
5/9/2013 09:00	5/9/2013 10:00	1	INT-CIRC	CIRCULATE	CIRC	Started getting high erratic torque on bottom. Picked up off bottom - no difference in torque indicating issue is further up in the string. Back reamed stand two times until torque dropped back to normal - no more issues. No change in cuttings observed at bottoms up.
5/9/2013 10:00	5/9/2013 15:30	5.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 295' @ 53.6 ft/hr: 35k WOB, 70 TD RPM, 1300 psi PP, 130 spm, 500 gpm, 83 Motor RPM, 400 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 39 WT 8.9. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut).
5/9/2013 15:30	5/9/2013 16:00	0.5	PLAN	EQUIP	RIGSER	Rig Service - service TDS and take SPRs
5/9/2013 16:00	5/9/2013 18:00	2	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 120' @ 60.0 ft/hr: 35k WOB, 70 TD RPM, 2350 psi PP, 202 spm, 793 gpm, 128 Motor RPM, 230 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 37 WT 9.0. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/9/2013 18:00	5/9/2013 21:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 228' @ 76.0 ft/hr: 34k WOB, 70 TD RPM, 2400 psi PP, 207 spm, 793 gpm, 132 Motor RPM, 320 psi Diff P, 7k TQ. Full returns while circulating through pits. Vis 32 WT 9.0. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/9/2013 21:00	5/10/2013 00:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 221' @ 73.7 ft/hr: 33k WOB, 70 TD RPM, 2400 psi PP, 207 spm, 793 gpm, 132 Motor RPM, 350 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 32 WT 9.0. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/10/2013 00:00	5/10/2013 01:30	1.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 97' @ 64.7 ft/hr: 33k WOB, 70 TD RPM, 2400 psi PP, 207 spm, 793 gpm, 132 Motor RPM, 300 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 34 WT 9.0. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/10/2013 01:30	5/10/2013 02:00	0.5	INT-CIRC	CIRCULATE	CIRC	Make connection, backream stand, and take survey
5/10/2013 02:00	5/10/2013 03:00	1	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Hole 29' @ 29 ft/hr: 22k WOB, 2300 psi PP, 207 spm, 793 gpm, 132 Motor RPM, 200 psi Diff P. Full returns while circulating through pits. Vis 34 WT 9.0
5/10/2013 03:00	5/10/2013 04:00	1	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 60' @ 60.0 ft/hr: 33k WOB, 70 TD RPM, 2400 psi PP, 207 spm, 793 gpm, 132 Motor RPM, 300 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 34 WT 9.0. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/10/2013 04:00	5/10/2013 06:00	2	INT-DRILL-VERT	DRILL INT VERT-SLIDE	DRL-SLIDE	Slide Drill 12-1/4" Hole 37' @ 18.5 ft/hr: 22k WOB, 2300 psi PP, 207 spm, 793 gpm, 132 Motor RPM, 200 psi Diff P. Full returns while circulating through pits. Vis 33 WT 9.0

Report #: 11 Daily Operation: 5/10/2013 06:00 - 5/11/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
10	11	7,526.0	7,525.4	8.80	H & P, 497	

Operations Summary

Drill 12-1/4" Intermediate Hole f/7152' MD t/ Intermediate TD @ 7,552' MD. Circulate, POOH, Pull Wear Bushing, Flush BOP, Run 9 5/8 Casing

Remarks

Skid Rig 4/30/2013 @ 23:30
Accepted Rig 5/1/2013 @ 06:00
Rig NPT for month of May = 4 hr

Spudded well: 5/1/2013 @ 08:30

Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 0 %, Lateral: 0 %

Corrosion ring installed 5/1/2013 @ 8:30 (cum hrs 221.5). 2 drums inhibitor used (Total for Intermediate).

TD Surface: 19:00, on 5/1/13

TD Intermediate: 14:00, on 5/10/13

Landed curve: xxxx, on xx/xx/xxxx

TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 7,552' MD - 1.32 deg inc, 99.17 deg az; 14.64' North, 50.58' East

Days since spud: 9.9

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/10/2013 06:00	5/10/2013 09:30	3.5	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 228' @ 85 ft/hr: 38 k WOB, 70 TD RPM, 2475 psi PP, 207 spm, 793 gpm, 132 Motor RPM, 400 psi Diff P, 6.5k TQ. Full returns while circulating through pits. Vis 33 WT 9.0. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)
5/10/2013 09:30	5/10/2013 10:30	1	UNPLANNED	Rig Repair (NON-CODE 8, Replacing Pump Expendables)	U_RIG_OTR	Circulate and back ream @ 450 and 25 RPM while changing swab in #1 pump. 700 psi PP 1-3k TQ
5/10/2013 10:30	5/10/2013 11:00	0.5	PLAN	EQUIP	RIGSER	Service top drive
5/10/2013 11:00	5/10/2013 14:00	3	INT-DRILL-VERT	DRILL INT VERT-ROTATE	DRL-ROT	Rotate Drill 12-1/4" Hole 172' @ 88 ft/hr: 38 k WOB, 55 TD RPM, 2475 psi PP, 207 spm, 793 gpm, 132 Motor RPM, 400 psi Diff P, 7k TQ. TD vertical section @ 7,552' Full returns while circulating through pits. Vis 35 WT 9.0. Pump 20 bbl sweep every connection (10 ppb cedar fiber, tiger bullets, polyplus, walnut)

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/10/2013 14:00	5/10/2013 15:30	1.5	INT-CIRC	CIRCULATE	CIRC	Circulate while back reaming up @ 800 gpm. Circulate two bottoms ups while pumping a 50 bbl 80 vis sweep. 50% increase in cutting when sweep came back. Shakers cleaned up. Check for flow - well static.
5/10/2013 15:30	5/10/2013 20:30	5	INT-TRIP	TOOH	TRIP	POOH SLM. No correction after strap. No excess over pull. Hole taking calculated displacement to fill.
5/10/2013 20:30	5/10/2013 23:30	3	INT-TRIP	TOOH	TRIP	Lay down BHA
5/10/2013 23:30	5/11/2013 01:00	1.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Pull wear bushing. Flush bop and well head with clean out tool three times @ 50 spm and 10 RPM
5/11/2013 01:00	5/11/2013 02:00	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	Clean rig floor, R/D bails, elevators, and stabbing guide in preparation for R/U Tesco casing equipment and CRT
5/11/2013 02:00	5/11/2013 02:30	0.5	PLAN	PERS	SFTY	Hold safety meeting / JSA with Tesco, H&P, and Pioneer on R/U casing equipment
5/11/2013 02:30	5/11/2013 03:30	1	INT-CASE	RUN INTERMEDIATE CASE	CASE	R/U casing equipment and CRT
5/11/2013 03:30	5/11/2013 04:00	0.5	PLAN	PERS	SFTY	Hold safety meeting / JSA with Tesco, H&P, and Pioneer on running 9 5/8" casing.
5/11/2013 04:00	5/11/2013 06:00	2	INT-CASE	RUN INTERMEDIATE CASE	CASE	Make up float equipment & run 9 5/8" casing @ 1100'

Report #: 12 Daily Operation: 5/11/2013 06:00 - 5/12/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days) 11	Days on Location (days) 12	End Depth (ftGRD) 7,526.0	End Depth (TVD) (ftGRD) 7,525.4	Dens Last Mud (lb/gal) 8.80	Rig H & P, 497	

Operations Summary

Run 9 5/8 casing. Washed casing down F/ 7,542' to 7,552', land casing hanger in well head. Circulate, raise mud weight f/ 8.8 ppg to 9.0 ppg. Rig down CRT & casing tools. Rig up cementing tools & cement 9 5/8" casing.

Remarks

Skid Rig 4/30/2013 @ 23:30
Accepted Rig 5/1/2013 @ 06:00
Rig NPT for month of May = 4 hr

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 0 %, Lateral: 0 %
Corrosion ring installed 5/1/2013 @ 8:30 (cum hrs 221.5). 2 drums inhibitor used (Total for Intermediate).

TD Surface: 19:00, on 5/1/13
TD Intermediate: 14:00, on 5/10/13
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 7,552' MD - 1.32 deg inc, 99.17 deg az; 14.64' North, 50.58' East

Days since spud: 10.9

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/11/2013 06:00	5/11/2013 07:30	1.5	PLAN	DRLG	CSG	Run 9 5/8 casing F/1,100' T/2,000' filing pipe on the run, breaking circulation every 1,000. Hole giving calculated displacement
5/11/2013 07:30	5/11/2013 08:00	0.5	PLAN	DRLG	CSG	Circulate bottoms up.
5/11/2013 08:00	5/11/2013 09:30	1.5	PLAN	DRLG	CSG	Run 9 5/8 casing F/2,000' T/3,000' Hole giving calculated displacement.
5/11/2013 09:30	5/11/2013 11:30	2	UNPLAN	WLCOND	U_LC	Hole stopped displacing. Annulus dropped 50'. Monitor well on trip tank. Lossing 50 bbls an hour. Work pipe mix and pump 30 bbl 30 lb/bbl lcm pill @ 6 bbls /minute. Displace pill with 235 bbls mud to clear shoe. Stated getting 65% returns 20 bbls into displacement. Lost a total of 80 bbls.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/11/2013 11:30	5/11/2013 14:00	2.5	PLAN	DRLG	CSG	Run 9 5/8 casing at 50' a minute F/3,000' T/4,717' filling on the run break circulation every 1,000'. No displacement. Hole seeps 0.5 bbls a minute with pipe setting still. Lost 95 bbls running pipe. Total losses 170 bbls.
5/11/2013 14:00	5/11/2013 15:00	1	UNPLAN	WLCOND	U_LC	Work pipe and spot 30 bbl 30# lcm pill @ 4,717'. Displace pill with 360 bbls to clear shoe. Intermittent partial returns while displacing pill. Lost 300 bbls. Total losses 470 bbls.
5/11/2013 15:00	5/11/2013 16:00	1	PLAN	DRLG	CSG	Run 9 5/8 casing F/ 4717' T/ 5,470'. Lost 68 bbls running pipe. Total losses 538 bbls
5/11/2013 16:00	5/11/2013 17:30	1.5	UNPLAN	WLCOND	U_LC	Work pipe while spotting 30 bbl 30# lcm pill @ 5,470' and displace with 425 bbls. Intermittent partial returns. Lost 375 bbls. Total losses 913 bbls
5/11/2013 17:30	5/11/2013 20:30	3	INT-CASE	RUN INTERMEDIATE CASE	CASE	Run 9 5/8 casing F/5,470' T/ 7,542'. No displacement. Lost 187 bbls. Ran 138 jts 9 5/8 L80 40#. Ran 33 jts 9 5/8 L80 43.5#. Rytwrap set F/ 2,368' T/5,814'. Shoe set @ 7552'. Top of FC @ 7455.40'. Torque 43.5# pipe 8130 ft/lb. Torque 40# pipe 7270 ft/lb.
5/11/2013 20:30	5/11/2013 22:00	1.5	UNPLANNED	Well Control events & any circulating related to g	U_WC	Started washing casing to bottom f/7,542' to 7,548'. Circulating 200 gpm 65% returns. Lost 280 bbls. Total losses are 1193 bbls. Pump 3 ea 35# 20 bbl LCM sweeps. Full returns.
5/11/2013 22:00	5/12/2013 00:00	2	UNPLAN	WLCOND	U_WC	Had a sharp increase in flow and gained 20 bbls. Kicked pumps out and well was flowing 12%. Shut in well. Monitor flow @ Trip Tank. Flowed back 1.6 bbls a min. for 1 hour. Circulate well through choke and was not able to get casing pressure to increase. Opened choke and increased pump to 250 gpm, raised mud to 9.0 ppg. Pit gain stabilized.
5/12/2013 00:00	5/12/2013 00:30	0.5	UNPLAN	WLCOND	U_WC	Continue to wash to bottom f/ 7,548' to 7,552'. Tagged head with casing hanger.
5/12/2013 00:30	5/12/2013 03:30	3	UNPLAN	WLCOND	U_WC	Continue to circulate at 250 gpm and raise mud weight to 9.0
5/12/2013 03:30	5/12/2013 05:00	1.5	INT-CASE	RUN INTERMEDIATE CASE	CASE	Held safety meeting. R/D CRT & casing tools. Install casing bails & elevators. Well staying static.
5/12/2013 05:00	5/12/2013 06:00	1	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Held safety meeting cementing crew, witness loading bottom & top plug. Rig up cementing tools. Confirm casing hanger seated. Test cementing lines to 3500 psi for 5 mins. Well static

Report #: 13 Daily Operation: 5/12/2013 06:00 - 5/13/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days) 12	Days on Location (days) 13	End Depth (ftGRD) 7,526.0	End Depth (TVD) (ftGRD) 7,525.4	Dens Last Mud (lb/gal) 9.00	Rig H & P, 497	

Operations Summary

Rig up and cement 9 5/8 casing. install mandrel pack off. Run temperature survey. Nipple down BOPs. Install Well Cap

Remarks

Skid Rig 6/03/2013 @ 01:00
Rig NPT for month of May = 4 hr

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 0 %, Lateral: 0 %
Corrosion ring installed 5/1/2013 @ 8:30 (cum hrs 221.5). 2 drums inhibitor used (Total for Intermediate).

TD Surface: 19:00, on 5/1/13
TD Intermediate: 14:00, on 5/10/13
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 7,552' MD - 1.32 deg inc, 99.17 deg az; 14.64' North, 50.58' East

Days since spud: 11.9

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
5/12/2013 06:00	5/12/2013 07:30	1.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Attempt to test lines. Casing swage leaking. Removed steel lines, cementing head & swage from casing. Inspect swage. Reinstall swage, cementing head & steel lines. Test lines to 3,500 psi for 5 mins.
5/12/2013 07:30	5/12/2013 15:30	8	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Cement 9 5/8" casing. Mix and pump 80 bbl viscosafied spacer. Drop bottom plug. Mix and pump 1137 sx class 'C' 11 ppg 2.74 yield cement. Mix and pump 185 sx class 'H' 1.07 yield 16.4 ppg cement. Flush cement lines back to head. Drop top plug. Displace w/ 563.5 bbls 10 ppg oilbase mud. Lost circulation 300 bbls into displacement 263 bbls short of bumping plug. 300 psi lift at 4 bbl/min. Bumped plug w/ 700 psi. Bled back 1.5 bbls. floats held.
5/12/2013 15:30	5/12/2013 16:00	0.5	INT-CMT	CEMENT INTERMEDIATE CSG	CMT	Held safety meeting with cementing & rig crews. Rig down cementing equipment.
5/12/2013 16:00	5/12/2013 18:00	2	PLAN	EQUIP	BOPS	Open casing valve, washed through stack, insuring no debris on top of casing hanger. Set mandrel packer. ?Visually confirm packers was in place. Engaged lock screws & energized packoff seals. Tested mandrel packoff seals to 5,000 psi for 5 minutes. Lay out running tool.
5/12/2013 18:00	5/12/2013 19:00	1	PLAN	GEO	LOG	Held safety meeting, Rig up wireline equipment.
5/12/2013 19:00	5/13/2013 03:00	8	PLAN	GEO	LOG	Run Temperature log f/ 7,455' to 0'. Estimated top of cement 3,300'. Run second temperature log to 7455' to 0'.
5/13/2013 03:00	5/13/2013 03:30	0.5	PLAN	GEO	LOG	Held safety meeting. Rig down wire line tools.
5/13/2013 03:30	5/13/2013 06:00	2.5	PLAN	EQUIP	BOPS	Nipple down BOP & install Well Cap.

Report #: 14 Daily Operation: 6/2/2013 22:00 - 6/3/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
33	13	7,526.0	7,525.4	10.40	H & P, 497	

Operations Summary

Skid Rig over hole, Nipple up BOPs and Run CBL

Remarks

Skid Rig 6/03/2013 @ 01:00
Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 0 %, Lateral: 0 %

TD Surface: 19:00, on 5/1/13
TD Intermediate: 14:00, on 5/10/13
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 7,552' MD - 1.32 deg inc, 99.17 deg az; 14.64' North, 50.58' East

Days since spud: 12.2

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/2/2013 22:00	6/3/2013 00:00	2	PLAN	MOB	MIRU	Pre job safety meeting on skidding rig and rigging up. Company man present for meeting. Prepare rig to skid
6/3/2013 00:00	6/3/2013 01:00	1	PLAN	MOB	MIRU	Skid Rig from the University 10-13 # 8H to the University 10-13 # 7H
6/3/2013 01:00	6/3/2013 02:00	1	PLAN	MOB	MIRU	Install cellar cove, lower stairs ways, roll up hydraulic hoses from skid controls.
6/3/2013 02:00	6/3/2013 04:00	2	PLAN	EQUIP	BOPS	Remove abandonment cap. Install BOPs on Well Head.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/3/2013 04:00	6/3/2013 06:00	2	INT-LOG	LOG	LOG	Hold safety meeting with Warrior bond log crew and rig crew, company man present for meeting. Rig up Logging tools and run Bond Log.

Report #: 15 Daily Operation: 6/3/2013 06:00 - 6/4/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
34	14	7,577.0	7,576.4	10.40	H & P, 497	

Operations Summary

Finish nipple up and run CBL. Test B.O.Ps and casg, TIH and tag cement, test casg. Drill float collar and shoe, Do F.I.T. and drill new hole

Remarks

Skid Rig 6/03/2013 @ 01:00
Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.

Spudded well: 5/1/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 0 %, Lateral: 0 %

TD Surface: 19:00, on 5/1/13
TD Intermediate: 14:00, on 5/10/13
Landed curve: xxxx, on xx/xx/xxxx
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 7,552' MD - 1.32 deg inc, 99.17 deg az; 14.64' North, 50.58' East

Days since spud: 13.2

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/3/2013 06:00	6/3/2013 09:30	3.5	COMPL	cement bond log	LOGCBL	Run CBL F/ 7,471' T/ Surface. CBL indicating no cement F/ 7,450' T/ 6,755' free pipe. Showing cement F/6,755' T/ 3,720'. Rig down Warrior wire line. Note: Contacted Ian Birbeck, Annan Pascoe and Jeff Clark and notified them of the lack of cement at the shoe. E-mailed a PDF & LAS file to Ian Birbeck and Scott Lowry. The decision was made to go ahead and drill out and do FIT.
6/3/2013 09:30	6/3/2013 10:30	1	PROD-NU/TEST	NIPPLE UP/TEST	NU/TEST	Finish nipple up on flex choke line, flow line and Katch Kan
6/3/2013 10:30	6/3/2013 11:00	0.5	PLAN	PERS	SFTY	Hold safety meeting with rig hands, Green's Energy testers. Company man present during safety meeting.
6/3/2013 11:00	6/3/2013 16:30	5.5	INT-NU/TEST	NIPPLE UP/TST	NU/TEST	Rig up Greens Testers and test B.O.P and choke lines, choke manifold and casing. Test: Annular 250 low / 1,500 high Pipe Rams 250 low / 2,500 high Blind Rams 250 low / 2,500 high Kill Line 250 low / 2,500 high Choke Line 250 low / 2,500 high Choke Manifold 250 low / 2,500 high .Casing Test 250 low / 2, 500 high
6/3/2013 16:30	6/3/2013 17:00	0.5	PLAN	PERS	SFTY	Held safety meeting with rig crew on slip & cut Drill Line.
6/3/2013 17:00	6/3/2013 18:00	1	PLAN	DRLG	CUTDL	Slip & Cut Drill Line. 100'
6/3/2013 18:00	6/3/2013 20:00	2	PLAN	EQUIP	BHA	Recalibrate blocks after slip & cut, install stabbing guide, mouse hole, check crown saver.
6/3/2013 20:00	6/3/2013 20:30	0.5	PLAN	EQUIP	BHA	Install wear bushing & set screws. Under Co.Rep supervision.
6/3/2013 20:30	6/3/2013 22:30	2	PLAN	EQUIP	BHA	Pick up directional tools BHA, scribe motor & test MWD @ 380 gpm 850 psi.
6/3/2013 22:30	6/4/2013 03:00	4.5	PROD-TRIP	TRIP	TRIP	TIH, Tagged Cement @ 7,449'

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/4/2013 03:00	6/4/2013 04:00	1	PLAN	DRLG	DRLCMT	Drill cement and float equipment. Float @ 7,449' Shoe @ 7,552'. 1750 psi SPP 10K wobt, 20 rpm, 100 spm, 380 gpm 150 diff 106 mmrpm
6/4/2013 04:00	6/4/2013 04:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 7' @ 14 ft/hr: 10k WOB, 20 TD RPM, 120 spm, 380 gpm, 106 Motor RPM, 1750psi SPP, 150psi diff, 3k TQ Notes: Full returns (29*% flow); circulating through mud pits. MW 10.2 ppg, 65 vis.
6/4/2013 04:30	6/4/2013 05:00	0.5	COMPL	Formation Injection Test	FIT	Perform F.I.T @ 7569' Bring pressure up slow @ 5 spm. Start test at 100 psi and bring up pressure 50 psi every 2 min to 510 psi = 11.49 EMW. Held 510 psi for 5 minutes. Contacted Jess Arnold and informed him the test was good. Toatal stks17 = 1.55 bbl's
6/4/2013 05:00	6/4/2013 06:00	1	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 34' @ 34 ft/hr: 28k WOB, 45 TD RPM, 81 spm, 309 gpm, 86 Motor RPM, 1350psi SPP, 210psi diff, 3k TQ Notes: Full returns (28% flow); circulating through mud pits. MW 10.2 ppg, 65 vis.

Report #: 16 Daily Operation: 6/4/2013 06:00 - 6/5/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
35	15	8,775.0	8,226.6	10.00	H & P, 497	

Operations Summary

Drill 8 1/2" Curve Section F/7,580' to 8801'

Remarks

Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.

Spudded well: 5/1/2013 @ 08:30

Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 86 %, Lateral: 0 %

TD Surface: 19:00, on 5/1/13

TD Intermediate: 14:00, on 5/10/13

Landed curve: xxxx, on xx/xx/xxxx

TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 8718' MD - 77.0 deg inc, 179.4 deg az; -755.25' South, 170..6' East
32' high 27' left of plan line

Days since spud: 14.2

Corrosion ring installed 6/4/2013 @ 22:30 (cum hrs 31.5). 1 drums inhibitor used.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/4/2013 06:00	6/4/2013 07:00	1	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 29' @ 29 ft/hr: 28k WOB, 20 TD RPM, 120 spm, 460 gpm, 122 Motor RPM, 2,129psi SPP, 700psi diff, 3k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.2 ppg, 65 vis.
6/4/2013 07:00	6/4/2013 10:00	3	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 113' @ 37.66' ft/hr: 30k WOB, 120 spm, 460 gpm, 122 Motor RPM, 2129 psi SPP, 700 psi diff, 167 deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.2 ppg, 55 vis.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/4/2013 10:00	6/4/2013 11:30	1.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 47' @ 31.33' ft/hr: 35k WOB, 120 spm, 460 gpm, 122 Motor RPM, 2129 psi SPP, 700 psi diff, 30 deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.2 ppg, 55 vis
6/4/2013 11:30	6/4/2013 12:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 10' @ 20 ft/hr: 18k WOB, 20 TD RPM, 120 spm, 460 gpm, 122 Motor RPM, 2,129psi SPP, 700psi diff, 3k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.2 ppg, 65 vis.
6/4/2013 12:00	6/4/2013 13:00	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 39' @ 39' ft/hr: 34k WOB, 140 spm, 536 gpm, 142 Motor RPM, 1890 psi SPP, 400 psi diff, 30 deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.2 ppg, 55 vis
6/4/2013 13:00	6/4/2013 13:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 5' @ 20 ft/hr: 18k WOB, 20 TD RPM, 140 spm, 536 gpm, 142 Motor RPM, 2,008psi SPP, 700psi diff, 3k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.2 ppg, 60 vis
6/4/2013 13:30	6/4/2013 16:00	2.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 135' @ 40' ft/hr: 40k WOB, 140 spm, 536 gpm, 142 Motor RPM, 2,154 psi SPP, 250 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 51 vis
6/4/2013 16:00	6/4/2013 16:30	0.5	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Rig Service - Lubricate Top Drive
6/4/2013 16:30	6/4/2013 17:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 5' @ 100 ft/hr: 12k WOB, 23 TD RPM, 120 spm, 459 gpm, 131 Motor RPM, 2,158psi SPP, 30psi diff, 3k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 51 vis
6/4/2013 17:00	6/4/2013 18:30	1.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 91' @ 100' ft/hr: 40k WOB, 140 spm, 459 gpm, 128 Motor RPM, 2,400 psi SPP, 350 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 51 vis
6/4/2013 18:30	6/4/2013 19:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 10' @ 100 ft/hr: 40k WOB, 23 TD RPM, 120 spm, 460 gpm, 131 Motor RPM, 2,158psi SPP, 425psi diff, 3k TQ Notes: Full returns (34% flow); circulating through mud pits. MW 10.0 ppg, 51 vis
6/4/2013 19:00	6/4/2013 19:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 66' @ 90' ft/hr: 40k WOB, 120 spm, 469 gpm, 131 Motor RPM, 2,400 psi SPP, 300 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 51 vis
6/4/2013 19:30	6/4/2013 20:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 10' @ 130 ft/hr: 40k WOB, 23 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,380psi SPP, 350psi diff, 2k TQ Notes: Full returns (34% flow); circulating through mud pits. MW 10.0 ppg, 51 vis

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/4/2013 20:00	6/4/2013 20:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 38' @ 110' ft/hr: 40k WOB, 120 spm, 460 gpm, 128 Motor RPM, 2,250 psi SPP, 550 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 51 vis
6/4/2013 20:30	6/4/2013 20:45	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 25' @ 100 ft/hr: 40k WOB, 23 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,200psi SPP, 500psi diff, 2k TQ Notes: Full returns (34% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/4/2013 20:45	6/4/2013 21:00	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 22' @ 80' ft/hr: 44k WOB, 120 spm, 460 gpm, 128 Motor RPM, 2,250 psi SPP, 400 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 52 vis
6/4/2013 21:00	6/4/2013 21:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 25' @ 150 ft/hr: 35k WOB, 23 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,350psi SPP, 550psi diff, 6k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/4/2013 21:30	6/4/2013 22:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 23' @ 90' ft/hr: 25k WOB, 120 spm, 460 gpm, 128 Motor RPM, 2,150 psi SPP, 450 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 52 vis
6/4/2013 22:00	6/4/2013 22:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 25' @ 150 ft/hr: 40k WOB, 20 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,150psi SPP, 400psi diff, 6k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/4/2013 22:30	6/4/2013 23:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 47' @ 80' ft/hr: 44k WOB, 120 spm, 460 gpm, 128 Motor RPM, 2,250 psi SPP, 460 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 52 vis
6/4/2013 23:00	6/4/2013 23:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 23' @ 130 ft/hr: 40k WOB, 20 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,300psi SPP, 400psi diff, 6k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/4/2013 23:30	6/5/2013 00:30	1	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 40' @ 150' ft/hr: 44k WOB, 120 spm, 460 gpm, 128 Motor RPM, 2,250 psi SPP, 350 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 52 vis
6/5/2013 00:30	6/5/2013 01:00	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 54' @ 175 ft/hr: 40k WOB, 20 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,350psi SPP, 600psi diff, 6k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/5/2013 01:00	6/5/2013 02:00	1	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 108' @ 200 ft/hr: 40k WOB, 20 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,450psi SPP, 600psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/5/2013 02:00	6/5/2013 02:30	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 35' @ 120' ft/hr: 40k WOB, 120 spm, 460 gpm, 128 Motor RPM, 2,250 psi SPP, 550 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 52 vis
6/5/2013 02:30	6/5/2013 03:30	1	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 47' @ 200 ft/hr: 40k WOB, 20 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,450psi SPP, 550psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/5/2013 03:30	6/5/2013 04:30	1	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 105' @ 105 ft/hr: 25k WOB, 20 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,450psi SPP, 400psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/5/2013 04:30	6/5/2013 05:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 10' @ 20' ft/hr: 40k WOB, 120 spm, 460 gpm, 128 Motor RPM, 2,250 psi SPP, 550 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 52 vis
6/5/2013 05:00	6/5/2013 05:30	0.5	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 31' @ 31 ft/hr: 25k WOB, 20 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,450psi SPP, 400psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/5/2013 05:30	6/5/2013 05:45	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole 20' @ 80 ft/hr: 25k WOB, 20 TD RPM, 120 spm, 460 gpm, 128 Motor RPM, 2,450psi SPP, 400psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/5/2013 05:45	6/5/2013 06:00	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2" Hole 12' @ 48' ft/hr: 40k WOB, 120 spm, 460 gpm, 128 Motor RPM, 2,250 psi SPP, 550 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 52 vis

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 17 Daily Operation: 6/5/2013 06:00 - 6/6/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 026472
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Days From Spud (days) 36	Days on Location (days) 16	End Depth (ftGRD) 10,996.0	End Depth (TVD) (ftGRD) 8,243.4	Dens Last Mud (lb/gal) 10.00	Rig H & P, 497
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Operations Summary
Drill 8-1/2 Curve section F/ 8,801' T/ 9,040' MD drill lateral F/ 9040 T/ 11022

Remarks
Skid Rig 6/03/2013 @ 01:00
Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.

Spudded well: 5/01/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 35 %

TD Surface:19:00, on 5/01/13
TD Intermediate: 14:00, on 5/10/13
Landed curve:@ 9,040' MD, on 6/05/2013
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 10,897' MD - 93.2 deg inc, 181.5 deg az; -2929.25' South, 122.24' East
2' high 49' left of plan line

Days since spud: 15.2

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/5/2013 06:00	6/5/2013 06:15	0.25	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole22' @ 66 ft/hr: 25k WOB, 20 TD RPM, 120 spm, 460 gpm,128 Motor RPM, 2,450psi SPP, 400psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/5/2013 06:15	6/5/2013 06:45	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2"" Hole20' @44' ft/hr: 47k WOB, 120 spm, 460 gpm,128 Motor RPM, 2,450 psi SPP, 350 psi diff, 30 R deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 10.1 ppg, 52 vis
6/5/2013 06:45	6/5/2013 08:30	1.75	PROD-DRILL CURVE	DRILL CURVE-ROTATE	DRL CURVE-ROT	"Rotate Drill 8-1/2" Hole139' @79.42 ft/hr: 25k WOB, 65 TD RPM, 120 spm, 460 gpm,128 Motor RPM, 2,300psi SPP, 350psi diff, 8k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis
6/5/2013 08:30	6/5/2013 10:00	1.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2"" Hole38' @25.33' ft/hr: 25k WOB, 120 spm, 460 gpm,128 Motor RPM, 2,150 psi SPP, 150 psi diff, 20 L deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 9.9+ ppg, 55 vis
6/5/2013 10:00	6/5/2013 10:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	"Rotate Drill 8-1/2" Hole57' @114.0 ft/hr: 35k WOB, 55TD RPM,120 spm, 460 gpm,128 Motor RPM, 2,440psi SPP, 350psi diff, 8k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6rpm 10
6/5/2013 10:30	6/5/2013 11:15	0.75	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole94' @125.0 ft/hr: 35k WOB, 80 TD RPM,140 spm, 536 gpm,142 Motor RPM, 3,000psi SPP, 550psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6rpm 10
6/5/2013 11:15	6/5/2013 11:45	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole30' @60.0' ft/hr: 27k WOB, 140 spm, 536 gpm,143 Motor RPM, 2,600 psi SPP, 200 psi diff, 120 L deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 9.9+ ppg, 55 vis 6 rpm 10

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/5/2013 11:45	6/5/2013 14:00	2.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 255' @113.33 ft/hr: 29k WOB, 80 TD RPM,140 spm, 536 gpm,142 Motor RPM, 3,000 psi SPP, 450psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6rpm 10
6/5/2013 14:00	6/5/2013 14:30	0.5	PROD-RIGSVCS	RIG SERVICE PLANNED	RIG_SVC	Service TDS and generator package
6/5/2013 14:30	6/5/2013 14:45	0.25	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2"" Hole25' @ 100.0' ft/hr: 30k WOB, 140 spm, 536 gpm,143 Motor RPM, 2,700 psi SPP, 250 psi diff, 100 L deg MTF Notes: Full returns (33% flow); circulating through mud pits. MW 9.9+ ppg, 52 vis 6 rpm 10
6/5/2013 14:45	6/5/2013 17:30	2.75	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 274' @99.63 ft/hr: 30k WOB, 80 TD RPM,140 spm, 535 gpm,80 Motor RPM, 2,900 psi SPP, 400psi diff, 9k TQ Notes: Full returns (33% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6rpm 10
6/5/2013 17:30	6/5/2013 19:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole33' @ 22.0' ft/hr: 30k WOB, 140 spm, 536 gpm,150 Motor RPM, 2,500 psi SPP, 100 psi diff, 0 deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6 rpm 10
6/5/2013 19:00	6/5/2013 21:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 235' @117.5 ft/hr: 30k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,050 psi SPP, 400psi diff, 10k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6rpm 10
6/5/2013 21:00	6/5/2013 22:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 207' @138 ft/hr: 32k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,125 psi SPP, 700psi diff, 10k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6rpm 10
6/5/2013 22:30	6/5/2013 23:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 90' @180 ft/hr: 36k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,175 psi SPP, 645psi diff, 11k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6rpm 10
6/5/2013 23:00	6/5/2013 23:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole23' @ 46.0' ft/hr: 40k WOB, 140 spm, 536 gpm,150 Motor RPM, 2,500 psi SPP, 300 psi diff, 60 R deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6 rpm 10.
6/5/2013 23:30	6/6/2013 02:30	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 450' @150 ft/hr: 36k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,250 psi SPP, 675psi diff, 12k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6rpm 10
6/6/2013 02:30	6/6/2013 03:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole22' @ 22.0' ft/hr: 40k WOB, 140 spm, 536 gpm,150 Motor RPM, 2,800 psi SPP, 300 psi diff, 90 R deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6 rpm 10

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/6/2013 03:30	6/6/2013 04:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 72' @144 ft/hr: 36k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,270 psi SPP, 610psi diff, 12k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6rpm 10
6/6/2013 04:00	6/6/2013 04:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	"Slide Drill 8-1/2"" Hole16' @ 42.0' ft/hr: 35k WOB, 140 spm, 536 gpm,150 Motor RPM, 3,000 psi SPP, 290 psi diff,150 R deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6 rpm 10
6/6/2013 04:30	6/6/2013 05:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	"Slide Drill 8-1/2"" Hole79' @ 79.0' ft/hr: 36k WOB, 140 spm, 536 gpm,150 Motor RPM, 3,350 psi SPP, 620 psi diff, 90 R deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6 rpm 10
6/6/2013 05:30	6/6/2013 06:00	0.5	PROD-DRILL CURVE	DRILL CURVE-SLIDE	DRL CURVE-SLIDE	"Slide Drill 8-1/2"" Hole22' @ 42.0' ft/hr: 42k WOB, 140 spm, 536 gpm,150 Motor RPM, 2,700 psi SPP, 150 psi diff, 160 L deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6 rpm 10

Report #: 18 Daily Operation: 6/6/2013 06:00 - 6/7/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
37	17	13,337.0	8,247.9	10.00	H & P, 497		

Operations Summary

Drill lateral F/ 11,022' T/ 13,363'

Remarks

Skid Rig 6/03/2013 @ 01:00
Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.

Spudded well: 5/01/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 65 %

TD Surface:19:00, on 5/01/13
TD Intermediate: 14:00, on 5/10/13
Landed curve:@ 9,040' MD, on 6/05/2013
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 13,174' MD - 89.70 deg inc, 184.4 deg az; 5201.86' South, .53' West
12' high 4' right of plan line

Days since spud: 16.2

Corrosion ring installed 6/4/2013 @ 22:30 (cum hrs 69.30). 1 drums inhibitor used.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/6/2013 06:00	6/6/2013 09:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 349' @116 ft/hr: 35k WOB, 75 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,000 psi SPP, 500psi diff, 10k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6rpm 10
6/6/2013 09:00	6/6/2013 11:15	2.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 204' @90 ft/hr: 25k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,100 psi SPP, 600psi diff, 12k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6rpm 10. BOP Drill while drilling. Well secure in 15 seconds.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/6/2013 11:15	6/6/2013 11:45	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 15' @ 30' ft/hr: 30k WOB, 140 spm, 536 gpm,150 Motor RPM, 2,700 psi SPP, 150 psi diff, 45 R deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 10
6/6/2013 11:45	6/6/2013 12:30	0.75	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 66' @ 83 ft/hr: 31k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,100 psi SPP, 600 psi diff, 12k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 10
6/6/2013 12:30	6/6/2013 14:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 259' @144 ft/hr: 25k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3,100 psi SPP, 600 psi diff, 12k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 9.9 ppg, 53 vis 6 rpm 10
6/6/2013 14:30	6/6/2013 15:15	0.75	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 15' @ 30' ft/hr: 30k WOB, 140 spm, 536 gpm,150 Motor RPM, 2,700 psi SPP, 150 psi diff, 20 R deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 10
6/6/2013 15:15	6/6/2013 16:30	1.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 170' @ 136 ft/hr: 30 k WOB, 70 TD RPM,140 spm, 536 gpm,150 Motor RPM, 3250 psi SPP, 625 psi diff, 13 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 9.9 ppg, 53 vis 6 rpm 10
6/6/2013 16:30	6/6/2013 17:00	0.5	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Rig Service- Lubricate Top Drive
6/6/2013 17:00	6/6/2013 20:30	3.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 486' @ 138 ft/hr: 40 k WOB, 75 TD RPM,140 spm, 536 gpm,151 Motor RPM, 3530 psi SPP, 665 psi diff, 13 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 9.9 ppg, 53 vis 6 rpm 10
6/6/2013 20:30	6/6/2013 21:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 15' @ 30' ft/hr: 45k WOB, 140 spm, 536 gpm,150 Motor RPM, 3000 psi SPP, 300 psi diff, 0 deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 11
6/6/2013 21:00	6/6/2013 23:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 268' @ 107 ft/hr: 35 k WOB, 75 TD RPM,140 spm, 536 gpm,151 Motor RPM, 3400 psi SPP, 490 psi diff, 11 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11
6/6/2013 23:30	6/7/2013 00:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 11' @ 22' ft/hr: 50k WOB, 140 spm, 536 gpm,150 Motor RPM, 3000 psi SPP, 100 psi diff, 180 deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 11. H2S drill. Well Site secure 55 seconds.
6/7/2013 00:00	6/7/2013 01:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 84' @ 184ft/hr: 35 k WOB, 75 TD RPM,140 spm, 536 gpm,151 Motor RPM, 3400 psi SPP, 500 psi diff, 13 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/7/2013 01:00	6/7/2013 02:00	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 19' @ 19' ft/hr: 50k WOB, 140 spm, 536 gpm,150 Motor RPM, 2850 psi SPP, 50 psi diff, 160 L deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 11
6/7/2013 02:00	6/7/2013 03:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 182' @ 121ft/hr: 45 k WOB, 65 TD RPM,140 spm, 536 gpm,151 Motor RPM, 3580 psi SPP, 680 psi diff, 14 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11
6/7/2013 03:30	6/7/2013 04:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 11' @ 22' ft/hr: 50k WOB, 140 spm, 536 gpm,151 Motor RPM, 2935 psi SPP, 50 psi diff, 150 L deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 11
6/7/2013 04:00	6/7/2013 06:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 157' @ 781ft/hr: 45 k WOB, 65 TD RPM,140 spm, 536 gpm,151 Motor RPM, 3600 psi SPP, 680 psi diff, 13 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11

Report #: 19 Daily Operation: 6/7/2013 06:00 - 6/8/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472	
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig		
38	18	14,425.0	8,278.0	10.00	H & P, 497		

Operations Summary

Drill lateral F/ 13,363' T/ 14,451' , Circulate. TOOH for low penetration rate.

Remarks

Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.

Spudded well: 5/01/2013 @ 08:30

Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 73 %

TD Surface:19:00, on 5/01/13

TD Intermediate: 14:00, on 5/10/13

Landed curve:@ 9,040' MD, on 6/05/2013

TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 11,451' MD - 86.90 deg inc, 181.4 deg az; 6474.82' South,86.10' West
1' high 39' right of plan line

Days since spud: 17.2

Corrosion ring installed 6/4/2013 @ 22:30 (cum hrs 83.30). 1 drums inhibitor used.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/7/2013 06:00	6/7/2013 06:15	0.25	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 10' @ 225 ft/hr: 45 k WOB, 80 TD RPM,140 spm, 536 gpm,151 Motor RPM, 3400 psi SPP, 400 psi diff, 8 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 53 vis 6 rpm 11
6/7/2013 06:15	6/7/2013 06:30	0.25	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 13' @ 40' ft/hr: 45 k WOB, 140 spm, 536 gpm,151 Motor RPM, 2935 psi SPP, 150 psi diff, 140 L deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 11

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/7/2013 06:30	6/7/2013 09:30	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 299' @ 100 ft/hr: 38 k WOB, 75 TD RPM, 140 spm, 536 gpm, 151 Motor RPM, 3400 psi SPP, 406 psi diff, 38 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11
6/7/2013 09:30	6/7/2013 10:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 70' @ 175 ft/hr: 32 k WOB, 75 TD RPM, 140 spm, 536 gpm, 151 Motor RPM, 3250 psi SPP, 406 psi diff, 38 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/7/2013 10:30	6/7/2013 11:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 15' @ 40' ft/hr: 45 k WOB, 140 spm, 536 gpm, 151 Motor RPM, 2900 psi SPP, 150 psi diff, high side MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 11
6/7/2013 11:00	6/7/2013 14:00	3	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 270' @ 135 ft/hr: 30 k WOB, 75 TD RPM, 140 spm, 536 gpm, 151 Motor RPM, 3300 psi SPP, 400 psi diff, 11 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/7/2013 14:00	6/7/2013 14:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 15' @ 30' ft/hr: 45 k WOB, 140 spm, 536 gpm, 151 Motor RPM, 2900 psi SPP, 145 psi diff, 150 L MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 54 vis 6 rpm 11
6/7/2013 14:30	6/7/2013 16:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 161' @ 107 ft/hr: 40 k WOB, 70 TD RPM, 140 spm, 535 gpm, 150 Motor RPM, 3400 psi SPP, 500 psi diff, 12 k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/7/2013 16:00	6/7/2013 16:30	0.5	PROD-RIGSVCS	RIG SERVICE PLANNED	RIG_SVC	Service Rig- lubricate Top Drive
6/7/2013 16:30	6/7/2013 17:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 14' @ 28 ft/hr: 40 k WOB, 70 TD RPM, 140 spm, 535 gpm, 150 Motor RPM, 3400 psi SPP, 525 psi diff, 15 k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/7/2013 17:00	6/7/2013 17:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 15' @ 20' ft/hr: 45 k WOB, 140 spm, 536 gpm, 151 Motor RPM, 2900 psi SPP, 150 psi diff, 120 L MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11
6/7/2013 17:30	6/7/2013 19:30	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 171' @ 85 ft/hr: 45 k WOB, 75 TD RPM, 140 spm, 536 gpm, 150 Motor RPM, 3520 psi SPP, 460 psi diff, 15 k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/7/2013 19:30	6/7/2013 20:30	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 35' @ 35 ft/hr: 45 k WOB, 70 TD RPM, 140 spm, 536 gpm, 150 Motor RPM, 3520 psi SPP, 200 psi diff, 14 k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/7/2013 20:30	6/7/2013 22:00	1.5	PROD-CIRC	CIRCULATE	CIRC	Back ream up at 1 minute / ft from 14271 t/14361 while circulating. TD rpm 80, 536 gpm. 140 spm, 3100 spp. Shakers clean after bottoms up. Check for flow.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/7/2013 22:00	6/8/2013 01:00	3	PROD-TRIP	TRIP	TRIP	TOOH f/ 14,451' to 9,100'. Check for flow - no flow. Fill hole on Trip Tank and keep trip sheet, recording every 5 stands. Hole tacking calculated fill. BOP Drill while tripping pipe,
6/8/2013 01:00	6/8/2013 02:00	1	PROD-CIRC	CIRCULATE	CIRC	Circulate bottoms up, back reaming up f/ 9,100' to 9,010', 536 gpm. 140 spm, 3100 spp. High side mtr. Check for flow.
6/8/2013 02:00	6/8/2013 03:30	1.5	PROD-TRIP	TRIP	TRIP	TOOH f/ 9,100' to 6,920'. Check for flow - no flow. Fill hole on Trip Tank and keep trip sheet, recording every 5 stands.
6/8/2013 03:30	6/8/2013 04:00	0.5	PROD-CIRC	CIRCULATE	CIRC	Pump 35 bbl slug. Check flow. No flow
6/8/2013 04:00	6/8/2013 06:00	2	PROD-TRIP	TRIP	TRIP	TOOH f/ 6,920' to 1,346'

Report #: 20 Daily Operation: 6/8/2013 06:00 - 6/9/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days) 39	Days on Location (days) 19	End Depth (ftGRD) 14,844.0	End Depth (TVD) (ftGRD) 8,298.6	Dens Last Mud (lb/gal) 10.00	Rig H & P, 497	

Operations Summary

Tripping Pipe. Drill lateral F/ 14,451' T/ 14,870'. TOOH for MWD

Remarks

Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.

Spudded well: 5/01/2013 @ 08:30

Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 75 %

TD Surface: 19:00, on 5/01/13

TD Intermediate: 14:00, on 5/10/13

Landed curve: @ 9,040' MD, on 6/05/2013

TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 14,870' MD - 89.0 deg inc, 180.5 deg az; 6893.10' South, 96.32' West
12' low 38' right of plan line

Days since spud: 18.2

Corrosion ring installed 6/4/2013 @ 22:30 (cum hrs 88.30). 1 drums inhibitor used.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/8/2013 06:00	6/8/2013 07:30	1.5	PROD-TRIP	TRIP	TRIP	POOH F/1346' T/290'
6/8/2013 07:30	6/8/2013 08:30	1	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig and top drive and test crown-o-matic.
6/8/2013 08:30	6/8/2013 09:30	1	PROD-TRIP BHA	TRIP FOR BHA	TRIP BHA	POOH. Lay down bit, motor and MWD. Bit was coring out on heel row.
6/8/2013 09:30	6/8/2013 11:30	2	PROD-TRIP BHA	TRIP FOR BHA	TRIP BHA	Pick up Motor. Check mwd seat. Pick up, scribe and test MWD.
6/8/2013 11:30	6/8/2013 17:30	6	PROD-TRIP	TRIP	TRIP	Make up bit and trip in the hole T/9286' filing every 30 stands.No excess drag.
6/8/2013 17:30	6/8/2013 18:00	0.5	PROD-CIRC	CIRCULATE	CIRC	Fill pipe and circulate bottoms up back reaming up at 1 ft / minute rotating 80 RPM and pumping 550 GPM. Shakers were clean while circulating with no increase in cuttings or gas at bottoms up.
6/8/2013 18:00	6/8/2013 20:00	2	PROD-TRIP	TRIP	TRIP	Trip in the hole F/ 9286' T/ 12,821'
6/8/2013 20:00	6/8/2013 20:30	0.5	PROD-CIRC	CIRCULATE	CIRC	Fill pipe, break circulation @ 12,821'
6/8/2013 20:30	6/8/2013 21:00	0.5	PROD-TRIP	TRIP	TRIP	Trip in the hole F/12,821 to 14,311'
6/8/2013 21:00	6/8/2013 22:00	1	PROD-W&R	WASH & REAM	WASH_R EAM	Wash & Ream F/14,311' T/14,451' 5 WOB, 80 RPM, 140 SPM, 536 GPM, 35 DIFF, 3075 SPP

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/8/2013 22:00	6/8/2013 23:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 159' @ 106 ft/hr: 35 k WOB, 90 TD RPM, 140 spm, 536 gpm, 268 Motor RPM, 3740 psi SPP, 700 psi diff, 9 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11
6/8/2013 23:30	6/9/2013 00:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 15' @ 30' ft/hr: 60k WOB, 140 spm, 536 gpm, 268 Motor RPM, 3,740 psi SPP, 400 psi diff, 30 L deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/9/2013 00:00	6/9/2013 01:30	1.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 175' @ 116 ft/hr: 30 k WOB, 75 TD RPM, 140 spm, 536 gpm, 268 Motor RPM, 3725 psi SPP, 750 psi diff, 12 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11
6/9/2013 01:30	6/9/2013 02:30	1	PROD-DRILL LATERAL	DRILL LATERAL-SLIDE	DRL LAT-SLIDE	"Slide Drill 8-1/2"" Hole 20' @ 20' ft/hr: 60k WOB, 140 spm, 536 gpm, 268 Motor RPM, 3100 psi SPP, 300 psi diff, 0 deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/9/2013 02:30	6/9/2013 03:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 50' @ 100 ft/hr: 36 k WOB, 75 TD RPM, 140 spm, 536 gpm, 268 Motor RPM, 3820 psi SPP, 800 psi diff, 12 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11
6/9/2013 03:00	6/9/2013 03:30	0.5	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Trouble shoot MWD while circulating (No Pulse)
6/9/2013 03:30	6/9/2013 04:30	1	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Circulate B/U. Check Flow
6/9/2013 04:30	6/9/2013 06:00	1.5	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	TOOH to shoe to retrieve MWD

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 21 Daily Operation: 6/9/2013 06:00 - 6/10/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
40	20	14,935.0	8,300.2	10.00	H & P, 497	

Operations Summary
Trip out of the hole to shoe. Change MWD w/wire line. Cut Drill line. TIH, Drilling Lateral F/14,870' to 14,961', TOOH for Mud Motor.

Remarks
Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.
15.5 hrs NPT due to MWD Failure
8.0 hrs NPT due to Mud Motor Failure

Spudded well: 5/01/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 75 %

TD Surface: 19:00, on 5/01/13
TD Intermediate: 14:00, on 5/10/13
Landed curve: @ 9,040' MD, on 6/05/2013
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 14,960' MD - 88.80 deg inc, 180.0 deg az; -6893.11' South, -95.28' West
15' low 36' right of plan line

Days since spud: 19.2

Corrosion ring installed 6/4/2013 @ 22:30 (cum hrs 92.30). 1 drums inhibitor

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/9/2013 06:00	6/9/2013 09:15	3.25	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Trip out of the hole for MWD F/12782' T/7473'. No excess over pull. Hole took calculated displacement.
6/9/2013 09:15	6/9/2013 14:30	5.25	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Pre job safety meeting with VES. rig up wire line truck and retrieve MWD with overshot. Tool was found to have internal problems. Run fresh MWD on wire line. Test MWD.
6/9/2013 14:30	6/9/2013 16:30	2	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Cut drilling line
6/9/2013 16:30	6/9/2013 20:30	4	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	TIH F/7,486' to 14'690' Fill every 30 stds. No excess drag.
6/9/2013 20:30	6/9/2013 21:00	0.5	UNPLANNED	MWD/LWD Tool Failures including trip times (if mai	U_MWD	Wash & Ream 8-1/2" Hole, 5 k WOB, 70 TD RPM, 140 spm, 536 gpm, 268 Motor RPM, 3100 psi SPP, 75 psi diff, 3 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 58 vis 6 rpm 11
6/9/2013 21:00	6/9/2013 22:00	1	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 91' @ 91 ft/hr: 30 k WOB, 75 TD RPM, 140 spm, 536 gpm, 268 Motor RPM, 3825 psi SPP, 780 psi diff, 9 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/9/2013 22:00	6/9/2013 23:30	1.5	PROD-TRIP	TRIP	TRIP	Lost Differential & Torque. Inst P-rate dropped F/ 140 FT/HR to 17 FT/HR. No change in off bottom pressure. Circulate bottoms up & check flow.
6/9/2013 23:30	6/10/2013 02:00	2.5	PROD-TRIP	TRIP	TRIP	TOOH f/ 14,961' to 9,100'. Check for flow - no flow. Fill hole on Trip Tank and keep trip sheet, recording every 5 stands. Hole taking calculated fill.
6/10/2013 02:00	6/10/2013 03:00	1	PROD-TRIP	TRIP	TRIP	Circulate bottoms up, back reaming up f/ 9,100' to 9,010', 536 gpm. 140 spm, 3100 spp. High side mtr. Check for flow.
6/10/2013 03:00	6/10/2013 06:00	3	PROD-TRIP	TRIP	TRIP	TOOH f/ 9,100' to 860'. Check for flow - no flow. Fill hole on Trip Tank and keep trip sheet, recording every 5 stands.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 22 Daily Operation: 6/10/2013 06:00 - 6/11/2013 06:00

Job Category ORIG DRILLING	Primary Job Type ODR	AFE Number 026472
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Days From Spud (days) 41	Days on Location (days) 21	End Depth (ftGRD) 15,564.0	End Depth (TVD) (ftGRD) 8,301.8	Dens Last Mud (lb/gal) 10.00	Rig H & P, 497
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Operations Summary
Lay down BHA, Service rig, Wait on MTR, Pick up BHA, TIH, Drilling Lateral F/14,961' T/15,590'

Remarks
Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.
15.5 hrs NPT due to MWD Failure

Spudded well: 5/01/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 77 %

TD Surface: 19:00, on 5/01/13
TD Intermediate: 14:00, on 5/10/13
Landed curve: @ 9,040' MD, on 6/05/2013
TD Lateral: xxxx, on xx/xx/xxxx

Well Plan: PTB @ 15,449' MD - 90.60 deg inc, 179.20 deg az; -7472.03' South, -99.20' West
17' low 19' right of plan line

Days since spud: 20.20

Corrosion ring installed 6/4/2013 @ 22:30 (cum hrs 105). 1 drums inhibitor

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/10/2013 06:00	6/10/2013 07:00	1	PROD-TRIP	TRIP	TRIP	POOH F/860' T/98'
6/10/2013 07:00	6/10/2013 08:30	1.5	PROD-TRIP	TRIP	TRIP	Lay down MWD, Break bit, Lay down mtr. Bit was ringed out on shoulder
6/10/2013 08:30	6/10/2013 09:00	0.5	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig
6/10/2013 09:00	6/10/2013 11:00	2	UNPLANNED	Other - Anything not listed above	U_OTR	Wait on 7/8 6.4 MTR. ETA 10:30
6/10/2013 11:00	6/10/2013 12:30	1.5	PROD-TRIP	TRIP	TRIP	Pick up 7/8 6.4 1.83 FX Mtr. Scribe and test MWD. Make up bit
6/10/2013 12:30	6/10/2013 17:30	5	PROD-TRIP	TRIP	TRIP	Trip in the hole F/98' T/9,287'
6/10/2013 17:30	6/10/2013 18:30	1	PROD-CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 9,287' 140 SPM, 40 RPM
6/10/2013 18:30	6/10/2013 21:00	2.5	PROD-TRIP	TRIP	TRIP	Trip in the hole F/9,287' T14'785', no drag
6/10/2013 21:00	6/10/2013 22:00	1	PROD-W&R	WASH & REAM	WASH_REAM	Wash & Ream 8-1/2" Hole F/14785' T/14961', No fill. No indications of Junk. Pattern bit with 2 k WOB, 25 TD RPM, 104 spm, 398 gpm, 112 Motor RPM, 2000 psi SPP, 30 psi diff, 3 k TQ Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 65 vis 6 rpm 11
6/10/2013 22:00	6/11/2013 00:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 149' @149 ft/hr: 35k WOB, 75 TD RPM, 140 spm, 536 gpm, 150 Motor RPM, 3,575 psi SPP, 380psi diff, 10k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 65 vis 6rpm 11
6/11/2013 00:00	6/11/2013 02:00	2	PROD-DRILL LATERAL	DRILL LATERAL-ROTATE	DRL LAT-ROT	Rotate Drill 8-1/2" Hole 162' @81 ft/hr: 35k WOB, 80 TD RPM, 140 spm, 536 gpm, 150 Motor RPM, 3675 psi SPP, 400psi diff, 13k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 65 vis 6rpm 11

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/11/2013 02:00	6/11/2013 02:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	"Slide Drill 8-1/2" Hole 15' @ 30' ft/hr: 50k WOB, 140 spm, 536 gpm, 150 Motor RPM, 3300 psi SPP, 125 psi diff, 30 R deg MTF Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 66 vis 6 rpm 11
6/11/2013 02:30	6/11/2013 04:00	1.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Hole 159' @106 ft/hr: 35k WOB, 75 TD RPM, 140 spm, 536 gpm, 150 Motor RPM, 3690 psi SPP, 500psi diff, 14k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 65 vis 6rpm 11
6/11/2013 04:00	6/11/2013 06:00	2	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Hole 144' @72 ft/hr: 32k WOB, 71 TD RPM, 140 spm, 536 gpm, 151 Motor RPM, 3645 psi SPP, 455psi diff, 12k TQ Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 65 vis 6rpm 11

Report #: 23 Daily Operation: 6/11/2013 06:00 - 6/12/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days) 42	Days on Location (days) 22	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) 8,286.6	Dens Last Mud (lb/gal) 10.00	Rig H & P, 497	

Operations Summary

Drill Lateral F/15,590' T/16,371' , Circulate B/U. TOOH F/16,371' T/9,192' Circulate B/U. TOOH F/9,192' to 7,486'. Lay down 5" Drill Pipe

Remarks

Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.
15.5 hrs NPT due to MWD Failure

Spudded well: 5/01/2013 @ 08:30

Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 100 %

TD Surface: 19:00, on 5/01/13
TD Intermediate: 14:00, on 5/10/13
Landed curve: @ 9,040' MD, on 6/05/2013
TD Lateral: 19:00 on 6/11/2013

Well Plan: PTB @ 16,371' MD - 91.80 deg inc, 178.90 deg az; -8393.08' South, -64.18' West
6' above 45' left of plan line

Days since spud: 21.20

Corrosion ring installed 6/4/2013 @ 22:30 (cum hrs 122). 1 drums inhibitor

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/11/2013 06:00	6/11/2013 08:30	2.5	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Hole 160' @ 125 ft/hr: 30k WOB, 80 TD RPM, 140 spm, 535 gpm, 151 Motor RPM, 3500 psi SPP, 425 psi diff, 11k TQ. Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6rpm 11
6/11/2013 08:30	6/11/2013 09:30	1	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	"Slide Drill 8-1/2" Hole 25' @ 25' ft/hr: 40k WOB, 120 spm, 460 gpm, 129 Motor RPM, 3200 psi SPP, 120 psi diff, 90 R deg MTF Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/11/2013 09:30	6/11/2013 10:45	1.25	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Hole 65' @175 ft/hr: 30k WOB, 80 TD RPM, 140 spm, 535 gpm, 151 Motor RPM, 3500 psi SPP, 425 psi diff, 12k TQ. Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/11/2013 10:45	6/11/2013 11:30	0.75	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	"Slide Drill 8-1/2" Hole 20' @ 20' ft/hr: 50k WOB, 140 spm, 535 gpm,150 Motor RPM, 3375 psi. 140 SPP. 120 psi diff, 90 R deg MTF. Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/11/2013 11:30	6/11/2013 12:30	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Hole 80' @150 ft/hr: 24 k WOB, 80 TD RPM,140 spm, 535 gpm,151 Motor RPM, 3350 psi. 140 SPP, 375 psi diff, 10 k TQ. Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 55 vis 6 rpm 11
6/11/2013 12:30	6/11/2013 13:00	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	"Slide Drill 8-1/2" Hole 20' @ 20' ft/hr: 50k WOB, 140 spm, 535 gpm,150 Motor RPM, 3350 psi. 140 SPP. 150 psi diff, 90 R deg MTF. Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 56 vis 6 rpm 11
6/11/2013 13:00	6/11/2013 14:00	1	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Hole 70' @160 ft/hr: 25 k WOB, 80 TD RPM,140 spm, 543 gpm,151 Motor RPM, 3600 psi. 140 SPP, 375 psi diff, 11 k TQ. Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 53 vis 6 rpm 11
6/11/2013 14:00	6/11/2013 14:30	0.5	PROD-DRILL LATERAL	DRILL LATERAL- SLIDE	DRL LAT- SLIDE	"Slide Drill 8-1/2" Hole 10' @ 70' ft/hr: 50k WOB, 140 spm, 535 gpm,150 Motor RPM, 3300 psi. 140 SPP. 175 psi diff, 90 R deg MTF. Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 53 vis 6 rpm 11
6/11/2013 14:30	6/11/2013 16:30	2	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Hole 164' @ 135 ft/hr 32 k WOB, 80 TD RPM,120 spm, 473 gpm,132 Motor RPM, 3200 psi. 120 SPP, 400 psi diff, 13 k TQ. Notes: Full returns (36% flow); circulating through mud pits. MW 10.0 ppg, 53 vis 6 rpm 11
6/11/2013 16:30	6/11/2013 17:00	0.5	PROD-RIGSVC	RIG SERVICE PLANNED	RIG_SVC	Service rig and td
6/11/2013 17:00	6/11/2013 19:00	2	PROD-DRILL LATERAL	DRILL LATERAL- ROTATE	DRL LAT- ROT	Rotate Drill 8-1/2" Hole 167' @ 83.5 ft/hr 35 k WOB, 80 TD RPM,141 spm, 536 gpm,150 Motor RPM, 3675 psi SPP, 490 psi diff, 12 k TQ. Notes: Full returns (37% flow); circulating through mud pits. MW 10.0 ppg, 52 vis 6 rpm 11
6/11/2013 19:00	6/11/2013 21:30	2.5	PROD-CIRC	CIRCULATE	CIRC	Circulate bottoms up @ 16,371'. Back ream up at 100 RPM 536 GPM Check Flow - no flow
6/11/2013 21:30	6/12/2013 01:30	4	PROD-TRIP	TRIP	TRIP	TOOH F/ 16,371' T/ 9,192". Check for flow - no flow. Fill hole on Trip Tank and keep trip sheet, recording every 5 stands. Hole tacking calculated fill.
6/12/2013 01:30	6/12/2013 03:00	1.5	PROD-CIRC	CIRCULATE	CIRC	Circulate bottoms up, back reaming up f/ 9,192' to 9,100', 536 gpm. 140 spm, 3100 spp. High side mtr. Check for flow.
6/12/2013 03:00	6/12/2013 04:00	1	PROD-TRIP	TRIP	TRIP	TOOH f/ 9,192' to 7,486'. Check for flow - no flow. Fill hole on Trip Tank and keep trip sheet, recording every 5 stands. Hole taking calculated fill.
6/12/2013 04:00	6/12/2013 06:00	2	PROD-TRIP	TRIP	TRIP	Held Safety meeting, Lay Down 5" Drill Pipe F/ 7,486' T/6000'

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 24 Daily Operation: 6/12/2013 06:00 - 6/13/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days) 43	Days on Location (days) 23	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) 8,286.6	Dens Last Mud (lb/gal) 10.00	Rig H & P. 497	

Operations Summary
Pooh laying down DP, Lay down BHA, Pull wear bushing, Rig up and run 5 1/2 casing

Remarks
Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.
15.5 hrs NPT due to MWD Failure

Spudded well: 5/01/2013 @ 08:30
Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 100 %

TD Surface: 19:00, on 5/01/13
TD Intermediate: 14:00, on 5/10/13
Landed curve: @ 9,040' MD, on 6/05/2013
TD Lateral: 19:00 on 6/11/2013

Well Plan: PTB @ 16,371' MD - 91.80 deg inc, 178.90 deg az; -8393.08' South, -64.18' West
6' above 45' left of plan line

Days since spud: 22.20

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/12/2013 06:00	6/12/2013 13:30	7.5	PROD-TRIP	TRIP	TRIP	Trip out of the hole laying down drill pipe F/6000' T/98'
6/12/2013 13:30	6/12/2013 14:30	1	PROD-TRIP	TRIP	TRIP	Lay BHA
6/12/2013 14:30	6/12/2013 15:30	1	PROD-CASE	RUN PRODUCTION CASTING	CASE	Clean rig floor, Pull wear bushing
6/12/2013 15:30	6/12/2013 16:00	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Pre job safety meeting with Tesco. Discussed recent incident involving pipe wrangler.
6/12/2013 16:00	6/12/2013 18:30	2.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Remove bails and elevators and stabbing guide. Rig up CRT and casing tools. Confirmed single jt elevator were correct ID. Recalibrate DW to new assembly length.
6/12/2013 18:30	6/12/2013 19:00	0.5	PLAN	PERS	SFTY	Safety Meeting: Hold safety meeting / perform JSA with casing crew (Tesco), H&P rig crew, and PNR personnel on running 5-1/2" production casing.
6/12/2013 19:00	6/12/2013 19:30	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	M/U 5-1/2" Float Shoe + 2 joints of 5-1/2" 17# P-110 BTC + Float Collar (thread lock on shoe track). RIH and pump through floats - test good
6/12/2013 19:30	6/13/2013 06:00	10.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5-1/2" 17.# P-110 BTC production casing F/ surface T/ 9,210' MD filling up every 30 jts M/U Torque to 6100 FT/LB Hole Displacing calculated displacement to trip tank, Notified TRRC on upcoming cement job @ 00:30am

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 25 Daily Operation: 6/13/2013 06:00 - 6/14/2013 06:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days) 44	Days on Location (days) 24	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) 8,286.6	Dens Last Mud (lb/gal) 10.00	Rig H & P. 497	

Operations Summary

Circulate at base of curve, Run 5 1/2 Casing to bottom, Circulate and Rig Up Cementers, Cement 5 1/2 Casing, Rig Down Cementers, Nipple Down Stack, Set Slips, Install Abandonment Cap, Rig up DP bails and elevators to lay down dp from derrick.

Remarks

Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.
15.5 hrs NPT due to MWD Failure

Spudded well: 5/01/2013 @ 08:30

Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 100 %

TD Surface: 19:00, on 5/01/13

TD Intermediate: 14:00, on 5/10/13

Landed curve: @ 9,040' MD, on 6/05/2013

TD Lateral: 19:00 on 6/11/2013

Well Plan: PTB @ 16,371' MD - 91.80 deg inc, 178.90 deg az; -8393.08' South, -64.18' West
6' above 45' left of plan line

Days since spud: 23.20

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/13/2013 06:00	6/13/2013 06:45	0.75	PROD-CASE	RUN PRODUCTION CASTING	CASE	Circulate Bottoms up @ 9200'
6/13/2013 06:45	6/13/2013 08:00	1.25	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2 casing F/ 9200' T/10345'. Pipe displacing calculated disp
6/13/2013 08:00	6/13/2013 08:30	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill pipe and break circulation
6/13/2013 08:30	6/13/2013 09:30	1	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2 casing F/ 10345' T/11605'. Pipe displacing calculated disp
6/13/2013 09:30	6/13/2013 10:00	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill pipe and break circulation
6/13/2013 10:00	6/13/2013 11:00	1	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2 casing F/11605' T/12865'. Pipe displacing calculated disp.
6/13/2013 11:00	6/13/2013 11:30	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill pipe and break circulation
6/13/2013 11:30	6/13/2013 12:30	1	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2 casing F/12865' T/13801. Pipe displacing calculated disp.
6/13/2013 12:30	6/13/2013 13:00	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill pipe and break circulation
6/13/2013 13:00	6/13/2013 14:00	1	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2 casing F/13,801' T/15,182'. Pipe displacing calculated disp.
6/13/2013 14:00	6/13/2013 14:30	0.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Fill pipe and break circulation
6/13/2013 14:30	6/13/2013 16:00	1.5	PROD-CASE	RUN PRODUCTION CASTING	CASE	Run 5 1/2 casing F/15182' T/16321'. Pipe displacing calculated disp. Wash casing down F/ 16321' and tag bottom @ 16,371'. Lay down tag joint. Shoe is set @ 16,370'. Top of Float collar is set @ 16,280.80'. 1st Marker set @ 7,018". Second Marker is set @ 7,201' . Ran a total of 399 joints 17# P-110 Buttress Casing, 2 Marker joints with a 2 jt shoe track W/ 21 solid centralizers. Casing torque to 6100 FT/LB. Top of float collar down is baker locked.
6/13/2013 16:00	6/13/2013 17:15	1.25	PROD-CASE	RUN PRODUCTION CASTING	CASE	Circulate 1.5 X casing capacity.
6/13/2013 17:15	6/13/2013 18:00	0.75	PROD-CASE	RUN PRODUCTION CASTING	CASE	Rig down CRT and casing tools,
6/13/2013 18:00	6/13/2013 19:30	1.5	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Rig up casing bails and elevators. Pre job safety meeting with Schlumberger. Rig up to cement

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/13/2013 19:30	6/13/2013 23:00	3.5	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Pressure test cement lines to 4,500 psi Mix & Pump Cement as follows: Mud Push - 45 bbls @ 12 lb/gal w/ additives: 2.0 gal/bbl B220, 200.28 lb/bbl D031, 1.0 lb/bbl B389, 0.2 gal/bbl D206 Drop bottom plug Lead Slurry - 186 bbls (391 sx) @ 11.0 lb/gal, 2.683 Yield, 16.83 Mix Water w/ additives: 75 lb/sx D049, 8% D020, 3% D0154, 0.6% D013, 0.4%D207, 0.4% D065, 0.2% D046, 0.2% D0208 Tail Slurry - 496 bbls (1965 sx) @ 13 lb/gal, 1.42 Yield, 7.29 Mix Water w/ additives: 75 lb/sx D049, 1.5% D174, 1.4% D112, 0.2% D046, 0.5% D201, Drop Top Plug Co/Man witness dropping plug.Displace W/378 bbls Biocide treated water. Bump plug @ 22:55 hrs on 6-13-2013 Displacement - 378 bbls @ 8.32 lb/gal Bumped Plug 2660/ 500 psi over final lift pressure of 2160 psi @ 3 bbl/min. Bled back 2.5 bbls and confirmed floats holding. Note: Circulated 18 bbls cement to surface.
6/13/2013 23:00	6/14/2013 00:30	1.5	PROD-CMT	CEMENT PRODUCTION CASTING	CMT	Rig down Schlumberger, wash out stack, flow line, choke lines, and remove drip pan. Drain Stack, break stack, flow line, choke line, prepare to lift stack, and prep to cut casing.
6/14/2013 00:30	6/14/2013 04:30	4	COMPL	ND, NU, Testing, Sleeve Installation, Greasing Wel	WLHEAD	Nipple down B.O.P and lift. Set slips @ 150,000 and rough cut casing performed by Wellhead Tech. Lay Down cut off joint, set BOP on wrangler, make final cut, dress out same, and install abandonment cap.
6/14/2013 04:30	6/14/2013 06:00	1.5	COMPL	ND, NU, Testing, Sleeve Installation, Greasing Wel	WLHEAD	Change out bales and elevators and prepare to lay down drill pipe .Clean Oil Base Mud from pits, open top tanks, and rig.

Report #: 26 Daily Operation: 6/14/2013 06:00 - 6/15/2013 03:00

Job Category ORIG DRILLING			Primary Job Type ODR			AFE Number 026472
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
45	24	16,345.0	8,286.6	10.00	H & P, 497	

Operations Summary

Lay Down Drill Pipe/ Break Drilling Spool from BOP/ Skid Rig/ lay Down Drill Pipe out of Derrick/ Rig Down Prep to lower Mast

Remarks

Release Rig on 6-15-13 @ 03:00

Skid Rig 6/03/2013 @ 01:00

Rig NPT: 0 hours for previous 24 hours. NPT 7.5 hours for month of June.
15.5 hrs NPT due to MWD Failure

Spudded well: 5/01/2013 @ 08:30

Completion percentage: Surface: 100%, Intermediate: 100%, Curve: 100 %, Lateral: 100 %

TD Surface:19:00, on 5/01/13

TD Intermediate: 14:00, on 5/10/13

Landed curve:@ 9,040' MD, on 6/05/2013

TD Lateral: 19:00 on 6/11/2013

Final Report

Well Plan: PTB @ 16,371' MD - 91.80 deg inc, 178.90 deg az; -8393.08' South,-64.18' West
6' above 45' left of plan line

Days since spud: 24.075

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/14/2013 06:00	6/14/2013 15:00	9	PROD-TRIP	TRIP	TRIP	Lay Drill pipe down out of derrick. Pipe wrangler shutting down inermittantly.
6/14/2013 15:00	6/14/2013 17:00	2	PROD-NU/TEST	NIPPLE UP/TEST	NU/TEST	Break spacer spool and remove from BOP.
6/14/2013 17:00	6/14/2013 23:00	6	MOBILIZATION	RDMO	RDMO	Prepare rig to skid and Skid rig to 8H while replacing starter and overload coils on PipeWranglers Hydraulic pump mtr.
6/14/2013 23:00	6/15/2013 03:00	4	PILOT-TRIP	TRIP	TRIP	Lay down DP from Derrick. Rig Release 6-15-13 @ 03:00 Final Report

Report #: 1 Daily Operation: 6/19/2013 06:00 - 6/20/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 50	Days on Location (days) 1	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Coil TBG Services, 1	

Operations Summary

NU Tby. Head, NU Half Stack, Plumb Surface & Intermediate.RIH w/ Junk Basket, Run CBL from 8,350' to Surface w/ 0 Psi. estimated TOC @ 2,560'

Remarks

CTS Down Time 0 Hrs. Cum. Time: 0 Hrs.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/19/2013 06:00	6/19/2013 08:00	2	COMPL	Other operations	OTHR	No Activity
6/19/2013 08:00	6/19/2013 13:00	5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Set Tby. Head, NU Mud X & Valve. Plumb Surface & Intermediate Back fill Cellar
6/19/2013 13:00	6/19/2013 18:00	5	COMPL	cement bond log	LOGCBL	MIRU API Wireline to run guage ring and CBL from 8,350' to surface. Estimated TOC @ 2,560'
6/19/2013 18:00	6/20/2013 06:00	12	COMPL	Other operations	OTHR	WSI for night

Report #: 2 Daily Operation: 6/20/2013 06:00 - 6/21/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 51	Days on Location (days) 2	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Coil TBG Services, 1	

Operations Summary

WSI Waiting on 8H Operations

Remarks

CTS Downtime:

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/20/2013 06:00	6/21/2013 06:00	24	COMPL	Other operations	OTHR	WSI Waiting on 8H TCP operations

Report #: 3 Daily Operation: 6/21/2013 06:00 - 6/22/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 52	Days on Location (days) 3	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Coil TBG Services, 1	

Operations Summary

WSI Waiting on 8H Operations

MIRU CTS Coil

Pull Test Connector

Pressure Intermediate to 1,500 PSI

Test Stack,Manifold,Valve and Casing to 10,000 PSI

Tag Bottom at 16,282' CTM

Run 12 bbl. Limonene

Circulate hole 400 bbls.

Run 10 Bbl. Sweep

POOH

Remarks

CTS Downtime:

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/21/2013 06:00	6/21/2013 17:00	11	COMPL	Other operations	OTHR	WSI

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/21/2013 17:00	6/21/2013 18:00	1	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Make up weld on Coil Connector and pull test 35,000. MU BHA consisting of Coil Connector, BPV, Hyd. Disconnect, Jars, Agitator, 2 7/8" motor, 4.75" JZ Bit. Function Test Motor. 2.5 BPM at 2,500 PSI.
6/21/2013 18:00	6/21/2013 20:00	2	COMPL	Other operations	OTHR	Pressure Test Intermediate to 1,500 PSI and Hold. Test Stack and Manifold to 10,000 PSI Open Valve and Test 5 1/2" casing to 10,000 PSI
6/21/2013 20:00	6/22/2013 00:00	4	COMPL	Clean out trip prior to logging, CCL or other log	CLNOUT	RIH With 2 3/8" coil and BHA for Clean out. 1/2 BPM at 800 PSI. Stop in vertical and do weight test. Increase Rate to 2 BPM at 1,100 PSI and continue to RIH
6/22/2013 00:00	6/22/2013 01:00	1	COMPL	Clean out trip prior to logging, CCL or other log	CLNOUT	Tag. Bottom at 16,282' CTM run 12 Bbl. Limonene. Circulate 400 bbls. to flush well. Run 10 Bbl. Sweep get Sweep ahead and Start POOH
6/22/2013 01:00	6/22/2013 05:00	4	COMPL	Clean out trip prior to logging, CCL or other log	CLNOUT	Start POOH
6/22/2013 05:00	6/22/2013 06:00	1	COMPL	Clean out trip prior to logging, CCL or other log	CLNOUT	Out of Hole

Report #: 4 Daily Operation: 6/22/2013 06:00 - 6/23/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 53	Days on Location (days) 4	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1	

Operations Summary
 RIH with TCP Guns
 Tag at 16,282 CTM
 Perforate Stg. 1 as per Design
 POOH. RDMOL
 MiRU PPS, Priority & Arklatex WL

Remarks
 CTS Downtime:

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/22/2013 06:00	6/22/2013 11:30	5.5	COMPL	TCP operations	TCP	RIH with TCP guns 5 clusters 4SPF(3 1/8" guns 19.0 gram charge 60 degree phasing minimum 0.42" EHD and 24" perf Distance) Tag Bottom at 16,282' CTM pick up and perforate 16,258'-16,260', 16,198'-16,200', 16,138'-16,140', 16,078'-16,080', 16,018'-16,020'
6/22/2013 11:30	6/22/2013 16:30	5	COMPL	TCP operations	TCP	Start POOH with TCP
6/22/2013 16:30	6/22/2013 19:00	2.5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Bump up. Close Well Lay down guns(all guns fired) RDMOL.
6/22/2013 19:00	6/23/2013 06:00	11	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	MIRU PPS frac equipment, Priority frac manifold, Protechnics & Arklatex WL.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 5 Daily Operation: 6/23/2013 06:00 - 6/24/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 54	Days on Location (days) 5	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1	

Operations Summary
Finish RU of PPS, Priority, Protechnics & Arklatex WL.
Did not start job due to PPS problems on the University 10-13 #8H

Remarks
No accidents or incidents to report.
PPS Downtime: __ Hrs Cum: __ Hrs
FDS Wtr Transf Down Time:-__ Hrs Cum: __ Hrs
Arklatex Wireline Down Time: 0 Hrs Cum: 0 Hrs
FTR: ____
RT: 0
LTR: ____
SIFT: ____

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/23/2013 06:00	6/24/2013 06:00	24	COMPL	Other operations	OTHR	Finish RU of PPS, Priority, Protechnics & Arklatex WL. Wait on #8H stg 1 frac.

Report #: 6 Daily Operation: 6/24/2013 06:00 - 6/25/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 55	Days on Location (days) 6	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1	

Operations Summary
Frac Stage 1
Had to wait on 10K lubricator and 50 ton crane.

Remarks
No accidents or incidents to report.
PPS Downtime: 0 Hrs Cum: 0 Hrs
FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
Arklatex Wireline Down Time: 8 Hrs Cum: 8 Hrs
FTR: 6,864 bbls
RT: 0
LTR: 6,864 bbls
SIFT: 196,341 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/24/2013 06:00	6/24/2013 13:15	7.25	COMPL	Other operations	OTHR	Waiting on 8H stage 1 Frac to be complete.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/24/2013 13:15	6/24/2013 16:39	3.4	COMPL	Frac	STIM	<p>FRAC STG #1 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 65 bbls 15% HCL, 36272 lbs.100 mesh sand & 160,069 lbs. 30/50 sand & 6964 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 25 bpm @ 6173 psi. Acid on form @ 30 bpm @ 7300 psi. Acid cleared @ 38 bpm @ 5125 psi.</p> <p>Increased rate to 80 bpm. Pumped 847 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 1.75 ppa. Ran sweep for 400 bbls pressure spiked up to 8100 psi after sweep. Staged flush Ending rate 70 bpm @ 8500 psi. Placed 56% prop in formation. Design FR 172.6 gals & actually pumped 139 gals (-15%).</p> <p>Avg rate: 67.9 bpm Avg psi: 5641 Max rate: 80 bpm Max psi: 8600</p> <p>Pad ISIP: 3980 psi FG: 0.95 ISIP 4261 psi FG :0.96</p> <p>FTR=6964 bbls LTR=6964 bbls SIF= 196,341 lbs. TSIF= 196,341 lbs.</p>
6/24/2013 16:39	6/24/2013 19:09	2.5	COMPL	Other operations	OTHR	Waiting on 10K lub to do pumpdown on 8H.
6/24/2013 19:09	6/25/2013 06:00	10.8 5	COMPL	Other operations	OTHR	The 10K lubricator arrived and the were picking it up and Ark-La-Tex says they cant pick all fot eh 10K gear up with the crane they have on location. So I have to order a 50 ton crane. Wait on wireline run on other 8H.

Report #: 7 Daily Operation: 6/25/2013 06:00 - 6/26/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 56	Days on Location (days) 7	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1	

Operations Summary

Perf Stage #2
Frac Stage #2
Perf Stage #3
Frac Stage #3

Remarks

No accidents or incidents to report.

PPS Downtime: 0 Hrs Cum: 0 Hrs

FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs

Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR: 10,921 bbls

RT: 0

LTR: 26,523 bbls

SIFT: 791,733 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/25/2013 06:00	6/25/2013 10:15	4.25	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Arklatex WL for Stage # 2 . RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @15,989' . Perforate intervals 15718' - 15720', 15778' - 15780', 15838' - 15840', 15898' - 15900' & 15958' - 15960' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm/6530 psi. Line speed 380 ft/min.</p> <p>FTR: 480 LTR: 480</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/25/2013 10:15	6/25/2013 12:45	2.5	COMPL	Frac	STIM	<p>FRAC STG #2 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 63 bbls 15% HCL, 37,558 lbs.100 mesh sand & 207,016 lbs. 30/50 sand & 7789 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 5127 psi. Acid on form @ 20 bpm @ 7150 psi. Acid cleared @ 60 bpm @ 6050 psi.</p> <p>Increased rate to 80 bpm. Pumped 847 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 1.75 ppa. Pressure spiked to 7100 psi. Dropped rate to 70 bpm and ran sweep. Pressure never fell off to start more prop. Staged flush Ending rate 70 bpm @ 7200 psi. Placed 71% prop in formation. Design FR 172.6 gals & actually pumped 257 gals (+ 33%).</p> <p>Avg rate:77.7 bpm Avg psi: 6502 Max rate: 80 bpm Max psi: 8600</p> <p>Pad ISIP: 3410 psi FG: 0.85 ISIP 3429 psi FG :0.85</p> <p>FTR=7,789 bbls LTR=15,602 bbls SIF= 244,574 lbs. TSIF= 440,915 lbs.</p>
6/25/2013 12:45	6/26/2013 00:45	12	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Arklatex WL for Stage # 3 . RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @15,689 '. Perforate intervals 15,418' - 15,420', 15,478' - 15,480', 15,538' - 15,540', 15,598' - 15,600' & 15,658' - 15,660' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm/4,316 psi. Line speed 300 ft/min.</p> <p>FTR: 389 bbls LTR: 15,602 bbls</p>
6/26/2013 00:45	6/26/2013 03:15	2.5	COMPL	Frac	STIM	<p>FRAC STG #3 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 50 bbls 15% HCL, 37,448 lbs.100 mesh sand & 313,370 lbs. 30/50 sand & 10,921 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4837 psi. Acid on form @ 60 bpm @ 7150 psi. Acid cleared @ 60 bpm @ 6900 psi.</p> <p>Increased rate to 80 bpm. Pumped 847 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 441 bbls. Ending rate 67 bpm @ 7700 psi. Placed 100% prop in formation.</p> <p>Avg rate: 72 bpm Avg psi: 6686 Max rate: 80 bpm Max psi: 8173</p> <p>Pad ISIP: 3429 psi FG: 0.85 ISIP: 3407 psi FG: 0.84</p> <p>FTR= 10,921 bbls LTR= 26,523 bbls SIF= 350,818 lbs. TSIF= 791,733 lbs.</p>
6/26/2013 03:15	6/26/2013 06:00	2.75	UNPLANNED	Wireline Operation Failures (logging, electric lin	U_EL	Wait on 8H wireline. Had a miss run on the #7H.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 8 Daily Operation: 6/26/2013 06:00 - 6/27/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
57	8	16,345.0	-26.0		Pioneer Pumping Services, HZ 1			

Operations Summary

Perf Stage #4
Fraced Stage #4
Cleanout Run with Coil.

Remarks

No accidents or incidents to report.

PPS Downtime: 0 Hrs Cum: 0 Hrs
FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:9,252 bbls

RT: 536 bbls

LTR: 36,152 bbls

SIFT: 791,733 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/26/2013 06:00	6/26/2013 08:30	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU Arklatex WL for Stage # 4 . RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @15,389'. Perforate intervals 15,118' - 15,120', 15,178' - 15,180', 15,238' - 15,240', 15,298' - 15,300' & 15,358' - 15,360' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm/ 5,090 psi. Line speed 325 ft/min. FTR: 377 bbls LTR: 26,900 bbls
6/26/2013 08:30	6/26/2013 13:30	5	COMPL_UNPLN D	Unplanned time due to OTHER pumping services`	U_PEOT H	Waited on frac to finish on other well on same pad.
6/26/2013 13:30	6/26/2013 17:30	4	COMPL	Frac	STIM	FRAC STG #4 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 61 bbls 15% HCL, 37,461 lbs.100 mesh sand & 254,219 lbs. 30/50 sand & 9,788 bbls slick water down 5.5" csg. Note: Only pumped 83% of sand volume due to pressure. Formation broke @ 20 bpm @ 4,159 psi. Acid on form @ 60 bpm @ 6,206 psi. Acid cleared @ 60 bpm @ 5,948 psi. Increased rate to 80 bpm. Pumped 1,089 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.0 ppa. Flushed well with 227 bbls. Unable to flush well due to pressure. Pumped 227 bbls & well pressured up to 8,800 psi. Ending rate 12 bpm @ 8,800 psi. Opened well to tanks & flowed well back 1 1/2 hrs. Attempted to flush well & pressure built to 8,500 psi. Unable to flush well. Avg rate: 70.9 bpm Avg psi: 6186 Max rate: 80 bpm Max psi: 8800 Pad ISIP: 3,794 psi FG: 0.89 ISIP: 4480 psi FG: .99 FTR= 9,252 bbls LTR= 36,152 bbls SIF= 291,680 lbs. TSIF= 1,083,413 lbs.
6/26/2013 17:30	6/27/2013 04:00	10.5	COMPL_UNPLN D	Unplanned time due to OTHER pumping services`	U_PEOT H	RD PPS and Arklatex and MIRU CTS coil tubing for clean out run.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/27/2013 04:00	6/27/2013 04:30	0.5	COMPL	Other operations	OTHR	RIH with 2 3/8 CTS coil & following BHA consisting of coil connector, back pressure valve, hydraulic disconnect, jars, motor, circ-sub and mill.
6/27/2013 04:30	6/27/2013 06:00	1.5	COMPL	Other operations	OTHR	Coil continue RIH for clean-out run at time of report.

Report #: 9 Daily Operation: 6/27/2013 06:00 - 6/28/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027378
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Days From Spud (days) 58	Days on Location (days) 9	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1
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Operations Summary

RIH w/ coil tbg to clean out sand fill. Continued to RIH w/ 2 3/8" coil tbg & clean out assembly. Washed & circulated to 15,409' (CTM). POOH w/ coil tbg & BHA. 22:00 RIH with Baker BP and Hydraulic setting tool. Also CTS 2 3/8 coil, coil connector, BPV, Hydraulic Dissconnect for BHA. Set plug @ 15,089'. Dropped ball, pumped ball down to release off setting tool. pumped 73 bbls to seat ball and psi to 4,600 to shear off. Did negative test by bleeding off well psi fell to 0 and watched for 5 min to make sure plug was in place. POOH w/ coil & setting tool.

Remarks

No accidents or incidents to report.

PPS Downtime: 0 Hrs Cum: 0 Hrs

FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs

Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:00 bbls

RT: 700 bbls

CR: 1237 bbls

LTR: 34,915 bbls

SIFT: 791,733 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/27/2013 06:00	6/27/2013 22:00	16	COMPL_UNPLN D	Downtime related to coil tubing unit	U_CT	Continued to RIH w/ 2 3/8" coil tbg & clean out assembly. Washed & circulated to 15,409' (CTM). POOH w/ coil tbg & BHA.
6/27/2013 22:00	6/28/2013 03:00	5	COMPL_UNPLN D	Downtime related to coil tubing unit	U_CT	RIH with Baker BP and Hydraulic setting tool. Also CTS 2 3/8 coil, coil connector, BPV, Hydraulic Dissconnect for BHA.
6/28/2013 03:00	6/28/2013 04:00	1	COMPL_UNPLN D	Downtime related to coil tubing unit	U_CT	Set plug @ 15,089'. Dropped ball, pumped ball down to release off setting tool. pumped 73 bbls to seat ball and psi to 4,600 to shear off. Did negative test by bleeding off well psi fell to 0 and watched for 5 min to make sure plug was in place. 0400 Start to POOH.
6/28/2013 04:00	6/28/2013 06:00	2	PROD-TRIP	TRIP	TRIP	POOH from 15,089'

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 10 Daily Operation: 6/28/2013 06:00 - 6/29/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 59	Days on Location (days) 10	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1	

Operations Summary
Continued to POOH w/ coil tbg & setting tool. RIH with tcp guns for stage 5. Perforated stg 5. POOH w/ coil tbg & tcp guns. Wait on 8H frac to finish.

Remarks
No accidents or incidents to report.

PPS Downtime: 0 Hrs Cum: 0 Hrs
FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR: 00 bbls

RT: 00 bbls

CR: 1237 bbls

LTR: 34,915 bbls

SIFT: 791,733 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/28/2013 06:00	6/28/2013 11:00	5	COMPL	TCP operations	TCP	Continued to POOH w/ coil tbg & setting tool.
6/28/2013 11:00	6/28/2013 19:00	8	COMPL	TCP operations	TCP	RIH w/ CDK 3 1/8" TCP guns loaded 25.0 gram charge, 60 deg phased, 0.42" EHD, 35.6" PEN & perforated the following intervals. 14,818' - 14,820' 4spf 8 holes 14,878' - 14,880' 4spf 8 holes 14,938' - 14,940' 4spf 8 holes 14,998' - 15,000' 4spf 8 holes 15,058' - 15,060' 4spf 8 holes 40 holes total POOH w/ coil & guns. All shots fired.
6/28/2013 19:00	6/28/2013 23:00	4	PROD-TRIP	TRIP	TRIP	POOH from TCP run.
6/28/2013 23:00	6/29/2013 01:00	2	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	RD coil off 7H/RU priority back on 7H
6/29/2013 01:00	6/29/2013 03:00	2	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	Waiting on PPS to repair backside pressure reading.
6/29/2013 03:00	6/29/2013 06:00	3	COMPL	Other operations	OTHR	Wait on 8H to finish frac.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 11 Daily Operation: 6/29/2013 06:00 - 6/30/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027378
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Days From Spud (days) 60	Days on Location (days) 11	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1
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Operations Summary
 Frac Stage #5
 Perf Stage #6
 Frac Stage #6
 Perf Stage #7
 Frac Stage #7

Remarks
 No accidents or incidents to report.

PPS Downtime: 0 Hrs Cum: 0 Hrs
 FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
 Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR: 00 bbls

RT: 00 bbls

CR: 1237 bbls

LTR: 65864 bbls

SIFT: 2,013,734 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/29/2013 06:00	6/29/2013 10:00	4	COMPL	Frac	STIM	<p>FRAC STG #5 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 117 bbls 15% HCL, 37,499 lbs. 100 mesh sand & 241,221 lbs. 40/70 sand & 12,098 bbls slick water down 5.5" csg.</p> <p>Note: Only pumped 79% of sand volume due to pressure. Attempted slick water & gel sweeps to lower pressure w/ no success.</p> <p>Formation broke @ 20 bpm @ 5,348 psi. Acid on form @ 20 bpm @ 5,647 psi. Acid cleared @ 60 bpm @ 5,770 psi. Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 1.5 ppa. Flushed well with 424 bbls. Ending rate 80 bpm @ 7,580 psi. Placed 79% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 244 gals, (+70%).</p> <p>Avg rate: 72.3 bpm Avg psi: 6,547 psi Max rate: 80 bpm Max psi: 7,880 psi</p> <p>Pad ISIP: 3,880 psi FG: 0.90 psi/ft ISIP 3,348 psi FG: 0.84 psi/ft</p> <p>FTR=12,098 bbls LTR= 47,013 bbls SIF= 278,720 lbs. TSIF= 1,362,133 lbs.</p>
6/29/2013 10:00	6/29/2013 14:00	4	COMPL_UNPLN D	If plug sets too early, unplanned trip to set new	U_PLUG	Waited on wireline to finish perforating other well on pad.
6/29/2013 14:00	6/29/2013 16:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Arklatex WL for Stage # 6 . RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 14,789 '. Perforated intervals 14,518' - 14,520', 14,578' - 14,580', 14,638' - 14,640', 14,698' - 14,700' & 14,758' - 14,760' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm/ 4,990 psi. Line speed 330 ft/min.</p> <p>FTR: 364 bbls LTR: 47,377 bbls</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/29/2013 16:00	6/29/2013 18:45	2.75	COMPL	Frac	STIM	Waited on frac to finish on other well on pad.
6/29/2013 18:45	6/29/2013 20:39	1.9	COMPL	Frac	STIM	<p>FRAC STG #6 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 60 bbls 15% HCL, 37,717 lbs.100 mesh sand & 261,847 lbs. 30/50 sand & 8008 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4475 psi. Acid on form @ 20 bpm @ 6480 psi. Acid cleared @ 60 bpm @ 5900 psi. Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1.0 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 1.75 ppa. Flushed well with 417 bbls. Ending rate 76.4 bpm @ 7433 psi. Placed 86% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 302 gals, (+175%).</p> <p>Avg rate: 71.8 bpm Avg psi: 6348 psi Max rate: 80 bpm Max psi: 8500 psi</p> <p>Pad ISIP:3582 psi FG: 0.83 psi/ft ISIP 4138 psi FG:0.85 psi/ft</p> <p>FTR=8,008 bbls LTR= 55,395 bbls SIF= 299,564 lbs. TSIF= 1,661,697 lbs.</p>
6/29/2013 20:39	6/29/2013 22:39	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU Arklatex WL for Stage # 7 . RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 14,489 '. Perforated intervals 14,218' - 14,220', 14,278' - 14,280', 14,338' - 14,340', 14,398' - 14,400' & 14,458' - 14,460' w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 18 bpm/ 6,050 psi. Line speed 330 ft/min.</p> <p>FTR:364 bbls LTR: 55,759 bbls</p>
6/29/2013 22:39	6/30/2013 00:39	2	COMPL	Frac	STIM	Waited on frac to finish on other well on pad.
6/30/2013 00:39	6/30/2013 01:27	0.8	COMPL	Frac	STIM	Fracing STG #7 of 25: Shutdown After 100 mesh Ramp/Shutdown until storm passes.
6/30/2013 01:27	6/30/2013 04:03	2.6	COMPL_UNPLN D	Waiting on weather	U_WOW	01:28 Waiting on Storm to pass.
6/30/2013 04:03	6/30/2013 05:48	1.75	COMPL	Frac	STIM	<p>FRAC STG #7 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 81 bbls 15% HCL, 37,399 lbs.100 mesh sand & 314638 lbs. 30/50 sand & 10105 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4610 psi. Acid on form @ 20 bpm @ 6550 psi. Acid cleared @ 60 bpm @ 6161 psi. Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1.0 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.00 ppa. Flushed well with 411 bbls. Ending rate 73.6 bpm @ 6987 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 404 gals, (+234%).</p> <p>Avg rate: 70.5 bpm Avg psi: 6,160 psi Max rate: 80 bpm Max psi: 8500 psi</p> <p>Pad ISIP:3598 psi FG: 0.87psi/ft ISIP 3597 psi FG:0.87 psi/ft</p> <p>FTR=10105 bbls LTR= 65,864 bbls SIF= 352,037 lbs. TSIF= 2,013,734 lbs.</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/30/2013 05:48	6/30/2013 06:00	0.2	COMPL	Other operations	OTHR	Wait on 8H to frac.

Report #: 12 Daily Operation: 6/30/2013 06:00 - 7/1/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 61	Days on Location (days) 12	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1	

Operations Summary

Perf Stage #8
Frac Stage #8
Perf Stage #9
Frac Stage #9
Perf Stage #10
Frac Stage #10
Perf Stage #11

Remarks

No accidents or incidents to report.

PPS Downtime: 0 Hrs Cum: 0 Hrs
FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:00 bbls

RT: 00 bbls

CR: 1237 bbls

LTR: 94,522 bbls

SIFT: 2,995,614 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/30/2013 06:00	6/30/2013 07:00	1	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	Waited on wireline to perforate other well on same pad.
6/30/2013 07:00	6/30/2013 09:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 8 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @14,189'. Perforate intervals 13,918' - 13,920', 13,978' - 13,980', 14,038' - 14,040', 14,098' - 14,100' & 14,158' - 14,160' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/4,420 psi. Line speed 340 ft/min. FTR: 358 LTR: 66,222 TSIF:2,013,734
6/30/2013 09:00	6/30/2013 11:30	2.5	COMPL	Frac	STIM	Waited on frac to finish on other well on same pad.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/30/2013 11:30	6/30/2013 14:00	2.5	COMPL	Frac	STIM	<p>FRAC STG #8 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 94 bbls 15% HCL, 37,731 lbs.100 mesh sand & 313,021 lbs. 40/70 sand & 9,657 bbls slick water down 5.5" csg. Formation broke @ 15 bpm @ 4,676 psi. Acid on form @ 17 bpm @ 4,663 psi. Acid cleared @ 17 bpm @ 4,142 psi. Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 40/70 sand from 0.5 ppa to 1.75 ppa. Flushed well with 403 bbls. Ending rate 80 bpm @ 6,481 psi. Placed 100% prop in formation. Designed FR pumped172 gals, Actual FR pumped 385 gals, (+110%).</p> <p>Avg rate: 75.3 bpm Avg psi: 6,164 psi Max rate: 80 bpm Max psi: 7,655 psi</p> <p>Pad ISIP: 3,576 psi FG: 0.86 psi/ft ISIP 3,550 psi FG:0.86 psi/ft</p> <p>FTR= 9,751 bbls LTR= 75,973 bbls SIF= 350,752 lbs. TSIF= 2,364,486 lbs.</p>
6/30/2013 14:00	6/30/2013 17:00	3	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 9 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @13,889'. Perforate intervals 13,618' - 13,620', 13,678' - 13,680', 13,738' - 13,740', 13,798' - 13,800' & 13,858' - 13,860' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/4,530 psi. Line speed 323 ft/min. FTR: 322 LTR: 76,295 TSIF:2,364,486</p>
6/30/2013 17:00	6/30/2013 19:15	2.25	COMPL	Other operations	OTHR	Waited on frac to finish on other well on same pad.
6/30/2013 19:15	6/30/2013 21:09	1.9	COMPL	Frac	STIM	<p>FRAC STG #9 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 60 bbls 15% HCL, 37,624 lbs.100 mesh sand & 312,465 lbs. 30/50 sand & 8,363 bbls slick water down 5.5" csg. Formation broke @ 15 bpm @ 5051 psi. Acid on form @ 17 bpm @ 7200 psi. Acid cleared @ 60 bpm @ 6112 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 395 bbls. Ending rate 80 bpm @ 6980 psi. Placed 100% prop in formation. Designed FR pumped172 gals, Actual FR pumped 345 gals, (+100%).</p> <p>Avg rate: 73.6 bpm Avg psi: 6323 psi Max rate: 80 bpm Max psi: 8500 psi</p> <p>Pad ISIP: 3515 psi FG: 0.85 psi/ft ISIP 3303 psi FG:0.83 psi/ft</p> <p>FTR= 8,363 bbls LTR= 85,034 bbls SIF=350,089 lbs. TSIF= 2,714,575 lbs.</p>
6/30/2013 21:09	6/30/2013 22:54	1.75	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 10 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @13,589'. Perforate intervals 13,318' - 13,320', 13,378' - 13,380', 13,438' - 13,440', 13,498' - 13,500' & 13,558' - 13,560' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/4563 psi. Line speed 323 ft/min. FTR: 376 bbls LTR: 85,034 bbls TSIF:2,364,486 sift</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
6/30/2013 22:54	7/1/2013 00:54	2	COMPL	Other operations	OTHR	Waited on frac to finish on other well on same pad.
7/1/2013 00:54	7/1/2013 03:00	2.1	COMPL	Frac	STIM	<p>FRAC STG # 10 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 82 bbls 15% HCL, 37475 lbs.100 mesh sand & 243564 lbs. 30/50 sand & 9,202 bbls slick water down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 5080 psi. Acid on form @ 30 bpm @ 6588 psi. Acid cleared @ 60 bpm @ 6228 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 395 bbls. Ending rate 76 bpm @ 6822 psi. Placed 80% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 354 gals, (+102%).</p> <p>Avg rate: 72.5 bpm Avg psi:6300 psi Max rate: 80 bpm Max psi: 8500 psi</p> <p>Pad ISIP: 3430 psi FG: 0.85 psi/ft ISIP 3425 psi FG:0.85 psi/ft</p> <p>FTR= 9202 bbls LTR= 94,236 bbls SIF=281,039 lbs. TSIF= 2,995,614 lbs.</p>
7/1/2013 03:00	7/1/2013 05:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 11 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @13,289'. Perforate intervals 13,018' - 13,020', 13,078' - 13,080', 13,138' - 13,140', 13,198' - 13,200' & 13,258' - 13,260' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/5275 psi. Line speed 323 ft/min.</p> <p>FTR: 286 bbls LTR: 94,522 bbls TSIF:2,995,614 sift</p>
7/1/2013 05:00	7/1/2013 06:00	1	COMPL	Other operations	OTHR	Waited on frac to finish on other well on same pad.

Report #: 13 Daily Operation: 7/1/2013 06:00 - 7/2/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1			
62	13	16,345.0	-26.0					

Operations Summary

Frac Stage # 11
Perf Stage # 12
Frac Stage # 12
Perf Stage # 13
Frac Stage # 13
Perf Stage # 14

Remarks

No accidents or incidents to report.

PPS Downtime: 5.5 Hrs Cum: 5.5 Hrs
FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:00 bbls

RT: 00 bbls

CR: 1237 bbls

LTR: 121,807 bbls

SIFT: 4,038,887 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/1/2013 06:00	7/1/2013 06:30	0.5	COMPL	Other operations	OTHR	Waited on frac to finish on other well on same pad.
7/1/2013 06:30	7/1/2013 09:00	2.5	COMPL	Frac	STIM	<p>FRAC STG # 11 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 92 bbls 15% HCL, 37,744 lbs.100 mesh sand & 312,826 lbs. 30/50 sand & 8,422 bbls slick water & 487 gals gel down 5.5" csg.</p> <p>Formation broke @ 15 bpm @ 4,739 psi. Acid on form @ 15 bpm @ 4,735 psi. Acid cleared @ 15 bpm @ 3,890 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 1.75 ppa. Flushed well with 382 bbls. Ending rate 76 bpm @ 6,441 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 357 gals, (+102%).</p> <p>Avg rate: 70.5 bpm Avg psi: 5,825 psi Max rate: 80 bpm Max psi: 7,106 psi</p> <p>Pad ISIP: 3,486 psi FG: 0.85 psi/ft ISIP 3,537 psi FG:0.86 psi/ft</p> <p>FTR= 8,514 bbls LTR= 103,036 bbls SIF= 350,570 lbs. TSIF= 3,346,184 lbs.</p>
7/1/2013 09:00	7/1/2013 11:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 12 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @12,989'. Perforate intervals 12,718' - 12,720', 12,778' - 12,780', 12,838' - 12,840', 12,898' - 12,900' & 12,958' - 12,960' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/4,410 psi. Line speed 350 ft/min.</p> <p>FTR: 262 bbls LTR: 103,298 bbls TSIF:3,346,184</p>
7/1/2013 11:00	7/1/2013 14:00	3	COMPL	Frac	STIM	<p>FRAC STG # 12 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 94 bbls 15% HCL, 37,204 lbs.100 mesh sand & 313,159 lbs. 30/50 sand & 9,443 bbls slick water & 392 gals gel down 5.5" csg.</p> <p>Formation broke @ 15 bpm @ 4,830 psi. Acid on form @ 15 bpm @ 4,677 psi. Acid cleared @ 15 bpm @ 3,773 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 1.75 ppa. Flushed well with 375 bbls. Ending rate 78 bpm @ 6,305 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 353 gals, (+102%).</p> <p>Avg rate: 73.6 bpm Avg psi: 6,087 psi Max rate: 80 bpm Max psi: 8,084 psi</p> <p>Pad ISIP: 3,549 psi FG: 0.86 psi/ft ISIP 3,228 psi FG:0.82 psi/ft</p> <p>FTR= 9,537 bbls LTR= 112,835 bbls SIF= 350,363 lbs. TSIF= 3,696,547 lbs.</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/1/2013 14:00	7/1/2013 16:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 13 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @12,689'. Perforate intervals 12,418' - 12,420', 12,478' - 12,480', 12,538' - 12,540', 12,598' - 12,600' & 12,658' - 12,660' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/3,860 psi. Line speed 350 ft/min. FTR: 242 bbls LTR: 113,077 bbls TSIF:3,696,547
7/1/2013 16:00	7/1/2013 17:30	1.5	COMPL	Frac	STIM	Waited on frac to finish on other well on same pad.
7/1/2013 17:30	7/1/2013 19:00	1.5	COMPL_UNPLN D	Any wait time associated to waiting on proppant	U_WOP	Waiting on sand trucks to start stage.
7/1/2013 19:00	7/1/2013 22:00	3	COMPL	Frac	STIM	FRAC STG # 13 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 60 bbls 15% HCL, 36,259 lbs.100 mesh sand & 306,081 lbs. 30/50 sand & 8486 bbls slick water & 238 gals gel down 5.5" csg. Formation broke @ 15 bpm @ 5,226 psi. Acid on form @ 15 bpm @ 8500 psi. Acid cleared @ 15 bpm @ 7000 psi. Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 367 bbls. Ending rate 80.3 bpm @ 6,480 psi. Placed 100% prop in formation. Designed FR pumped172 gals, Actual FR pumped 341 gals, (+175%). Avg rate: 75.6 bpm Avg psi: 5972 psi Max rate: 80 bpm Max psi: 8,500 psi Pad ISIP: 3400 psi FG: 0.84 psi/ft ISIP 3365 psi FG:0.84 psi/ft FTR= 8,486 bbls LTR= 121,563 bbls SIF= 342,340 lbs. TSIF= 4,038,887 lbs.
7/1/2013 22:00	7/2/2013 00:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 14 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @12,389'. Perforate intervals 12,118' - 12,120', 12,178' - 12,180', 12,238' - 12,240', 12,298' - 12,300' & 12,358' - 12,360' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/3900 psi. Line speed 350 ft/min. FTR:244 bbls LTR: 121,807 bbls TSIF:4,038,887
7/2/2013 00:00	7/2/2013 04:00	4	COMPL_UNPLN D	Any wait time associated to waiting on proppant	U_WOP	Waiting on sand trucks to start stage on 8H.
7/2/2013 04:00	7/2/2013 06:00	2	COMPL	Frac	STIM	Waited on frac to finish on other well on same pad.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 14 Daily Operation: 7/2/2013 06:00 - 7/3/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
63	14	16,345.0	-26.0		Pioneer Pumping Services, HZ 1			

Operations Summary
 Frac Stage #14
 Perf Stage #15
 Frac Stage #15
 Perf Stage #16
 Frac Stage #16
 Perf Stage #17
 PPS swapped blender after stage #17 because of bad tub. Down for 6.5 hrs

Remarks
 No accidents or incidents to report.

PPS Downtime: 6.5 Hrs Cum: 12 Hrs
 FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
 Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:00 bbls
 RT: 00 bbls
 CR: 1237 bbls
 LTR: 147,747 bbls
 SIFT: 5,101,827 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/2/2013 06:00	7/2/2013 08:00	2	COMPL	Frac	STIM	Waited on frac to finish on other well on same pad.
7/2/2013 08:00	7/2/2013 10:00	2	COMPL	Frac	STIM	<p>FRAC STG # 14 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 103 bbls 15% HCL, 37,580 lbs.100 mesh sand & 313,273 lbs. 30/50 sand & 8,328 bbls slick water & 416 gals gel down 5.5" csg.</p> <p>Formation broke @ 15 bpm @ 6,232 psi. Acid on form @ 15 bpm @ 6,160 psi. Acid cleared @ 15 bpm @ 4,125 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.0 ppa. Flushed well with 361 bbls. Ending rate 80.3 bpm @ 6,304 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 320 gals, (+160%).</p> <p>Avg rate: 71.4 bpm Avg psi: 6,036 psi Max rate: 80 bpm Max psi: 7,675 psi</p> <p>Pad ISIP: 3,659 psi FG: 0.87 psi/ft ISIP 3,267 psi FG: 0.83 psi/ft</p> <p>FTR= 8,431 bbls LTR= 130,238 bbls SIF= 350,853 lbs. TSIF= 4,389,740 lbs.</p>
7/2/2013 10:00	7/2/2013 12:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 15 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @12,089'. Perforate intervals 11,818' - 11,820', 11,878' - 11,880', 11,938' - 11,940', 11,998' - 12,000 & 12,058' - 12,060' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 3,870 psi. Line speed 282 ft/min.</p> <p>FTR:125 bbls LTR: 130,363 bbls TSIF:4,389,740</p>
7/2/2013 12:00	7/2/2013 13:00	1	COMPL	Frac	STIM	Waited on frac to finish on other well on same pad.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/2/2013 13:00	7/2/2013 15:00	2	COMPL	Frac	STIM	<p>FRAC STG # 15 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 103 bbls 15% HCL, 39,736 lbs.100 mesh sand & 310,784 lbs. 30/50 sand & 8,237 bbls slick water & 383 gals gel down 5.5" csg.</p> <p>Formation broke @ 50 bpm @ 6,309 psi. Acid on form @ 20 bpm @ 4,270 psi. Acid cleared @ 20 bpm @ 3,975 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 354 bbls. Ending rate 78.6 bpm @ 5,841 psi. Placed 100% prop in formation. Designed FR pumped172 gals, Actual FR pumped 292 gals, (+169%).</p> <p>Avg rate: 73.2 bpm Avg psi: 5,540 psi Max rate: 80 bpm Max psi: 7,043 psi</p> <p>Pad ISIP: 3,587 psi FG: 0.87 psi/ft ISIP 3,290 psi FG:0.83 psi/ft</p> <p>FTR= 8,340 bbls LTR= 138,578 bbls SIF= 350,520 lbs. TSIF= 4,740,260 lbs.</p>
7/2/2013 15:00	7/2/2013 17:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 16 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @11,789'. Perforated intervals 11,518' - 11,520', 11,578' - 11,580', 11,638' - 11,640', 11,698' - 11,700' & 11,758' - 11,760' w/ 40 shots, 4 SPF, 60", 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 3,850 psi. Line speed 323 ft/min.</p> <p>FTR:192 bbls LTR: 138,770 bbls TSIF:4,740,260</p>
7/2/2013 17:00	7/2/2013 19:09	2.15	COMPL	Frac	STIM	<p>Waited on frac to finish on other well on same pad.</p>
7/2/2013 19:09	7/2/2013 21:09	2	COMPL	Frac	STIM	<p>FRAC STG # 16 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 100 bbls 15% HCL, 37,631 lbs.100 mesh sand & 323,936 lbs. 30/50 sand & 8642 bbls slick water & 351 gals gel down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4,951 psi. Acid on form @ 20 bpm @ 4850 psi. Acid cleared @ 20 bpm @ 4058 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 8,642 bbls. Ending rate 80 bpm @ 6090 psi. Placed 105% prop in formation. Designed FR pumped172 gals, Actual FR pumped 252 gals, (+66%).</p> <p>Avg rate: 73.4 bpm Avg psi: 5,721 psi Max rate: 80 bpm Max psi: 7,836 psi</p> <p>Pad ISIP: 3,343 psi FG: 0.84 psi/ft ISIP 3,739 psi FG:0.86 psi/ft</p> <p>FTR= 8,642 bbls LTR= 147,747 bbls SIF=361,567 lbs. TSIF= 5,101,827 lbs.</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/2/2013 21:09	7/2/2013 23:09	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 17 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @11,489'. Perforated intervals 11,218' - 11,220', 11,278' - 11,280', 11,338' - 11,340', 11,398' - 11,400' & 11,458' - 11,460' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 4,200 psi. Line speed 323 ft/min. FTR:210 bbls LTR: 147,747 bbls TSIF:5,101,827
7/2/2013 23:09	7/3/2013 04:39	5.5	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	Swap blender out @ 22:00 (6.5 hrs downtime). Bad tub.
7/3/2013 04:39	7/3/2013 06:00	1.35	COMPL	Frac	STIM	Waited on frac to finish on other well on same pad.

Report #: 15 Daily Operation: 7/3/2013 06:00 - 7/4/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 64	Days on Location (days) 15	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1	

Operations Summary

Waited on PPS to replace blender.
Fraced stage 17
Perforated stage 18
Preparing to start stage 18 frac @ report time.

Remarks

No accidents or incidents to report.

PPS Downtime: 22 Hrs Cum: 34 Hrs
FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:156,221 bbls

RT: 0 bbls

CR: 1237 bbls

LTR: 154,984 bbls

SIFT: 5,454,938 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/3/2013 06:00	7/3/2013 21:30	15.5	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	Waited on PPS to replace blender.
7/3/2013 21:30	7/4/2013 00:00	2.5	COMPL	Frac	STIM	Waited on frac to finish on other well on same pad.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/4/2013 00:00	7/4/2013 02:00	2	COMPL	Frac	STIM	<p>FRAC STG # 17 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 105 bbls 15% HCL, 37,200 lbs.100 mesh sand & 315,911 lbs. 30/50 sand & 8,155 bbls slick water & 437 gals gel down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 5,330 psi. Acid on form @ 20 bpm @ 5,281 psi. Acid cleared @ 20 bpm @ 4,365 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 340 bbls. Ending rate 77.8 bpm @ 5,891 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 194 gals.</p> <p>Avg rate: 74.6 bpm Avg psi: 5,778 psi Max rate: 80 bpm Max psi: 7,817 psi</p> <p>Pad ISIP: 3,474 psi FG: 0.85 psi/ft ISIP 3,488 psi FG: 0.85 psi/ft</p> <p>FTR= 8,260 bbls LTR= 156,007 bbls SIF= 353,111 lbs. TSIF= 5,454,938 lbs.</p>
7/4/2013 02:00	7/4/2013 04:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 18 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @11,189'. Perforated intervals 10,918' - 10,920', 10,978' - 10,980', 11,038' - 11,040', 11,098' - 11,100' & 11,158' - 11,160' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 4,275 psi. Line speed 300 ft/min.</p> <p>FTR:214 bbls LTR: 156,221 bbls TSIF:5,454,938</p>
7/4/2013 04:00	7/4/2013 05:00	1	COMPL	Frac	STIM	Waited on frac to finish on other well on same pad.
7/4/2013 05:00	7/4/2013 06:00	1	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	Preparing to start stage 18 frac at report time.

Report #: 16 Daily Operation: 7/4/2013 06:00 - 7/5/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1	
65	16	16,345.0	-26.0			

Operations Summary
 Fraced Stg 18
 Perforated Stg 19
 Shut down operations due to wireline & guns being dropped down hole on the University 10-13 #8H, other well on same pad.

Remarks
 No accidents or incidents to report.

PPS Downtime: 18.5 Hrs Cum: 52.5 Hrs
 FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
 Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:164,704 bbls
 RT: 0 bbls
 CR: 1237 bbls
 LTR: 163,467 bbls
 SIFT: 5,808,083 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/4/2013 06:00	7/4/2013 07:30	1.5	COMPL	Frac	STIM	<p>FRAC STG # 18 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 78 bbls 15% HCL, 37389 lbs.100 mesh sand & 315756 lbs. 30/50 sand & 8338 bbls slick water & 336 gals gel down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4675 psi. Acid on form @ 20 bpm @ 4812 psi. Acid cleared @ 20 bpm @ 3928 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 333 bbls. Ending rate 80.0 bpm @ 5741 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 200 gals.</p> <p>Avg rate: 72.7 bpm Avg psi: 5718 psi Max rate: 80 bpm Max psi: 7956 psi</p> <p>Pad ISIP: 3310 psi FG: 0.83 psi/ft ISIP 3300 psi FG:0.83 psi/ft</p> <p>FTR= 8338 bbls LTR= 164,559 bbls SIF= 353,145 lbs. TSIF= 5,808,083 lbs.</p>
7/4/2013 07:30	7/4/2013 11:30	4	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 19 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @10,889'. Perforated intervals 10,618' - 10,620', 10,678' - 10,680', 10,738' - 10,740', 10,798' - 10,800' & 10,858' - 10,860' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 3620 psi. Line speed 328 ft/min.</p> <p>FTR:145 bbls LTR: 164,704 bbls TSIF: 5,808,083</p>
7/4/2013 11:30	7/5/2013 06:00	18.5	COMPL_UNPLN D	Unplanned time due to PXD pumping services'	U_PEPX D	SD waiting on CT to fish guns out of University 10-13 8h

Report #: 17 Daily Operation: 7/5/2013 06:00 - 7/6/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027378
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Days From Spud (days) 66	Days on Location (days) 17	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1
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Operations Summary

Waited on coil tbg to finish fishing guns & wireline out of the Univ 10-13 8H well.

Resumed frac operations.

Fracing Stg 19 on the Univ 10-13 #8H @ report time.

Remarks

No accidents or incidents to report.

PPS Downtime: 21 Hrs Cum: 73.5 Hrs

FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs

Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:164,704 bbls

RT: 0 bbls

CR: 1237 bbls

LTR: 163,467 bbls

SIFT: 5,808,083 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/5/2013 06:00	7/6/2013 03:00	21	COMPL_UNPLN D	Unplanned time due to PXD pumping services`	U_PEPX D	Waited on coil tbg to finish fishing guns & wireline out of the Univ 10-13 #8H well.
7/6/2013 03:00	7/6/2013 06:00	3	COMPL	Frac	STIM	Resumed frac operations. Fracing on Univ 10-13 #8H @ report time. FTR - 164,704 RT - 0 CR - 1,237 LTR - 163,467 TSIF - 5,808,083

Report #: 18 Daily Operation: 7/6/2013 06:00 - 7/7/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027378
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Days From Spud (days) 67	Days on Location (days) 18	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Pioneer Pumping Services, HZ 1
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Operations Summary

Fraced Stg 19
Perforated Stg 20
Fraced Stg 20
Perforated Stg 21
Fraced Stg 21
Perforated Stg 22
Fraced Stg 22
Perforated Stg 23
Waiting on frac to finish on Univ 10-13 #8H @ report time.

Remarks

No accidents or incidents to report.

PPS Downtime: 0 Hrs Cum: 73.5 Hrs
FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR: 199,796 bbls

RT: 0 bbls

CR: 1237 bbls

LTR: 198,559 bbls

SIFT: 7,212,501 lbs

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/6/2013 06:00	7/6/2013 06:30	0.5	COMPL	Frac	STIM	Waited on frac to finish on Univ 10-13 #8H.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/6/2013 06:30	7/6/2013 08:30	2	COMPL	Frac	STIM	<p>FRAC STG # 19 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 50 bbls 15% HCL, 37570 lbs.100 mesh sand & 313367 lbs. 30/50 sand & 8305 bbls slick water & 324 gals gel down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 5511 psi. Acid on form @ 20 bpm @ 6237 psi. Acid cleared @ 20 bpm @ 5240 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 328 bbls. Ending rate 80.0 bpm @ 5838 psi. Placed 100% prop in formation. Designed FR pumped172 gals, Actual FR pumped 247 gals.</p> <p>Avg rate: 73.5 bpm Avg psi: 5594 psi Max rate: 80 bpm Max psi: 6700 psi</p> <p>Pad ISIP: 3452 psi FG: 0.85 psi/ft ISIP 3469 psi FG:0.85 psi/ft</p> <p>FTR= 8305 bbls LTR= 172,864 bbls SIF= 350,937 lbs. TSIF= 6,159,020 lbs.</p>
7/6/2013 08:30	7/6/2013 10:45	2.25	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 20 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @10,889'. Perforated intervals 10,558' - 10,560', 10,498' - 10,500', 10,438' - 10,440', 10,378' - 10,380' & 10,318' - 10,320' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 3800 psi. Line speed 354 ft/min.</p> <p>FTR:135 bbls LTR: 172,864 bbls TSIF: 6,159,020</p>
7/6/2013 10:45	7/6/2013 14:30	3.75	COMPL	Frac	STIM	<p>FRAC STG # 20 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 50 bbls 15% HCL, 37561 lbs.100 mesh sand & 313,888 lbs. 30/50 sand & 8318 bbls slick water & 332 gals gel down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4308 psi. Acid on form @ 20 bpm @ 5722 psi. Acid cleared @ 20 bpm @ 4864 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 321 bbls. Ending rate 80.0 bpm @ 5817 psi. Placed 100% prop in formation. Designed FR pumped172 gals, Actual FR pumped 200 gals.</p> <p>Avg rate: 73.2 bpm Avg psi: 5526 psi Max rate: 80 bpm Max psi: 6131 psi</p> <p>Pad ISIP: 3692 psi FG: 0.88 psi/ft ISIP 3246 psi FG:0.82 psi/ft</p> <p>FTR= 8318 bbls LTR= 181,182 bbls SIF= 351,449 lbs. TSIF= 6,510,469 lbs.</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/6/2013 14:30	7/6/2013 17:00	2.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 21 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @10,289'. Perforated intervals 10,260' - 10,258', 10,198' - 10,200', 10,138' - 10,140', 10,078' - 10,080' & 10,018' - 10,020' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 3570 psi. Line speed 350 ft/min. FTR: 123 bbls LTR= 181,305 bbls TSIF= 6,510,469 lbs.
7/6/2013 17:00	7/6/2013 19:00	2	COMPL	Frac	STIM	Waited on frac to finish on the Univ 10-13 #8H.
7/6/2013 19:00	7/6/2013 21:00	2	COMPL	Frac	STIM	FRAC STG # 21 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 106 bbls 15% HCL, 37,554 lbs.100 mesh sand & 313,608 lbs. 30/50 sand & 8,271 bbls slick water & 326 gals gel down 5.5" csg. Formation broke @ 20 bpm @ 4,424 psi. Acid on form @ 20 bpm @ 4,649 psi. Acid cleared @ 20 bpm @ 3,840 psi. Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 288 bbls. Ending rate 80.0 bpm @ 5,860 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 255 gals. Avg rate: 73.4 bpm Avg psi: 5,529 psi Max rate: 80 bpm Max psi: 7,048 psi Pad ISIP: 3,291 psi FG: 0.83 psi/ft ISIP 3,511 psi FG: 0.86 psi/ft FTR= 8,377 bbls LTR= 189,962 bbls SIF= 351,162 lbs. TSIF= 6,861,631 lbs.
7/6/2013 21:00	7/6/2013 23:00	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 22 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 9,989'. Perforated intervals 9,718' - 9,720', 9,778' - 9,780', 9,838' - 9,840', 9,898' - 9,900' & 9,958' - 9,960' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 4,000 psi. Line speed 330 ft/min. FTR: 143 bbls LTR= 190,105 bbls TSIF= 6,861,631 lbs.
7/6/2013 23:00	7/7/2013 01:30	2.5	COMPL	Frac	STIM	Waited on frac to finish on Univ 10-13 #8H.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/7/2013 01:30	7/7/2013 03:30	2	COMPL	Frac	STIM	<p>FRAC STG # 22 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 98 bbls 15% HCL, 37,389 lbs.100 mesh sand & 313,481 lbs. 30/50 sand & 8,242 bbls slick water & 351 gals gel down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 4,503 psi. Acid on form @ 20 bpm @ 4,660 psi. Acid cleared @ 20 bpm @ 3,960 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 283 bbls. Ending rate 80.0 bpm @ 5,904 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 198 gals.</p> <p>Avg rate: 72.8 bpm Avg psi: 5,541 psi Max rate: 80 bpm Max psi: 7,214 psi</p> <p>Pad ISIP: 3,562 psi FG: 0.86 psi/ft ISIP 3,129 psi FG:0.81 psi/ft</p> <p>FTR= 8,340 bbls LTR= 198,445 bbls SIF= 350,870 lbs. TSIF= 7,212,501 lbs.</p>
7/7/2013 03:30	7/7/2013 05:30	2	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 23 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 9,689'. Perforated intervals 9,418' - 9,420', 9,478' - 9,480', 9,538' - 9,540', 9,598' - 9,600' & 9,658' - 9,660' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 3,800 psi. Line speed 303 ft/min.</p> <p>FTR: 114 bbls LTR= 198,559 bbls TSIF= 7,212,501 lbs.</p>
7/7/2013 05:30	7/7/2013 06:15	0.75	COMPL	Frac	STIM	Waiting on frac to finish on Univ 10-13 #8H @ report time.

Report #: 19 Daily Operation: 7/7/2013 06:00 - 7/8/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
68	19	16,345.0	-26.0		Pioneer Pumping Services, HZ 1	

Operations Summary
 Fraced Stg 23
 Perforated Stg 24
 Fraced Stg 24
 Perforated Stg 25
 Fraced Stg 25
 Set kill plug
 RD & MOL frac equipment & wireline unit. Prepared location for drill out operations.
 Well SI waiting on drill out.

Remarks
 No accidents or incidents to report.

PPS Downtime: 0 Hrs Cum: 73.5 Hrs
 FDS Wtr Transf Down Time:-0 Hrs Cum: 0 Hrs
 Arklatex Wireline Down Time: 0 Hrs Cum: 8 Hrs

FTR:224,902 bbls
 RT: 0 bbls
 CR: 1237 bbls
 LTR: 223,665 bbls
 TSIF: 8,268,289 lbs

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/7/2013 06:00	7/7/2013 08:00	2	COMPL	Frac	STIM	<p>FRAC STG # 23 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 58 bbls 15% HCL, 37907 lbs.100 mesh sand & 314072 lbs. 30/50 sand & 8238 bbls slick water & 350 gals gel down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 5603 psi. Acid on form @ 20 bpm @ 6503 psi. Acid cleared @ 20 bpm @ 5495 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 276 bbls. Ending rate 80.0 bpm @ 5900 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 194 gals.</p> <p>Avg rate: 73.2 bpm Avg psi: 5726 psi Max rate: 80 bpm Max psi: 6682 psi</p> <p>Pad ISIP: 3654 psi FG: 0.87 psi/ft ISIP 3591 psi FG:0.86 psi/ft</p> <p>FTR= 8238 bbls LTR= 208,034 bbls SIF= 351,979 lbs. TSIF= 7,564,480 lbs.</p>
7/7/2013 08:00	7/7/2013 09:30	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	<p>RU ArklaTex WL for Stage # 24 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 9,389'. Perforated intervals 9,118' - 9,120', 9,178' - 9,180', 9,138' - 9,140', 9,298' - 9,300' & 9,358' - 9,360' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL . Pump down @ 19 bpm/ 3740 psi. Line speed 310 ft/min.</p> <p>FTR: 85 bbls LTR= 208,119 bbls TSIF= 7,564,480 lbs.</p>
7/7/2013 09:30	7/7/2013 10:30	1	COMPL	Frac	STIM	<p>Waited on frac to finish on Univ 10-13 #8H.</p>
7/7/2013 10:30	7/7/2013 12:30	2	COMPL	Frac	STIM	<p>FRAC STG # 24 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 50 bbls 15% HCL, 37880 lbs.100 mesh sand & 314366 lbs. 30/50 sand & 8370 bbls slick water & 348 gals gel down 5.5" csg.</p> <p>Formation broke @ 20 bpm @ 5066 psi. Acid on form @ 20 bpm @ 6019 psi. Acid cleared @ 20 bpm @ 5460 psi.</p> <p>Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 268 bbls. Ending rate 76.0 bpm @ 6535 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 229 gals.</p> <p>Avg rate: 72.3 bpm Avg psi: 5889 psi Max rate: 80 bpm Max psi: 6889 psi</p> <p>Pad ISIP: 3794 psi FG: 0.89 psi/ft ISIP 3306 psi FG:0.83 psi/ft</p> <p>FTR= 8370 bbls LTR= 216,404 bbls SIF= 352,246 lbs. TSIF= 7,916,726 lbs.</p>

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/7/2013 12:30	7/7/2013 14:00	1.5	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU ArklaTex WL for Stage # 25 of 25. RIH & pump down Baker CFP & 5 each 3.375" guns. Set CFP @ 9,089. Perforated intervals 8,818 - 8,820', 8,878' - 8,880', 8,938' - 8,940', 8,998' - 9,000' & 9,058' - 9,060' w/ 40 shots, 4 SPF, 60*, 25 GR, 0.42" EHD perf guns. 40 holes total. POOH. All shots fired. RD WL. Pump down @ 19 bpm/ 3670 psi. Line speed 310 ft/min. FTR: 59 bbls LTR= 208,178 bbls TSIF= 7,916,726 lbs.
7/7/2013 14:00	7/7/2013 15:00	1	COMPL	Frac	STIM	Waited on frac to finish on Univ 10-13 #8H.
7/7/2013 15:00	7/7/2013 17:00	2	COMPL	Frac	STIM	FRAC STG # 25 of 25: Test stack to 8,500 psi. Hold 1500 psi on backside. PPS frac'd perfs per schedule w/ 74 bbls 15% HCL, 37956 lbs.100 mesh sand & 313,607 lbs. 30/50 sand & 8310 bbls slick water & 273 gals gel down 5.5" csg. Formation broke @ 20 bpm @ 5821 psi. Acid on form @ 20 bpm @ 7980 psi. Acid cleared @ 20 bpm @ 4890 psi. Increased rate to 80 bpm. Pumped 833 bbl pad. Ramped 100 mesh sand from 0.5 ppg to 1 ppg. Pumped 357 bbl spacer. Ramped 30/50 sand from 0.5 ppa to 2.25 ppa. Flushed well with 262 bbls. Ending rate 80.0 bpm @ 6181 psi. Placed 100% prop in formation. Designed FR pumped 172 gals, Actual FR pumped 242 gals. Avg rate: 73.9 bpm Avg psi: 5733 psi Max rate: 80 bpm Max psi: 8032 psi Pad ISIP: 3577 psi FG: 0.86 psi/ft ISIP 3146 psi FG:0.81 psi/ft FTR= 8310 bbls LTR= 224,714 bbls SIF= 351,563 lbs. TSIF= 8,268,289 lbs.
7/7/2013 17:00	7/7/2013 18:00	1	COMPL	RIH w/WL, set plug and perf, POOH w/WL	PERF	RU Arklatex & RIH w/ 5 1/2" CBP, setting tool & wireline. Set CBP (kill plug) @ 8,789'. POOH w/ wireline & setting tool. RD & MOL wireline unit. SWI & wait on drill out operations. Used 44 bbls water pumping down kill plug. FTR - 44 LTR - 224,758 TSIF - 8,268,289

Report #: 20 Daily Operation: 7/11/2013 06:00 - 7/12/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027378
Days From Spud (days) 72	Days on Location (days) 20	End Depth (ftGRD) 16,345.0
End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT

Operations Summary

Ru Coil tbg, Wih Drill out Kill Plug, Washing to Cfp #22 @ Report time.

Pumped 520 Bbls.

Ftr 225,422 bbls.

Rt 500 bbls.

Cr 1737 bbls

Ltr 223,685 bbls.

Remarks

No accidents or incidents to report.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/11/2013 06:00	7/11/2013 23:00	17	COMPL_UNPLN D	Unplanned time due to OTHER pumping services`	U_PEOT H	Well Shut in.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/11/2013 23:00	7/12/2013 02:00	3	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	MIRU Key Energy Services 2 3/8" coil unit & Flow back equipment. Make up BHA and tested motor. RU on well tested BOP, Lubricator & Flow back iron to 6000 psi. Tested good.
7/12/2013 02:00	7/12/2013 03:00	1	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Open well 0200 Hrs // SICP- 350 psi. RIH with 2 3/8" coil tbg, 2.88 x 2" Coil Connector, 2 3/8" PAC OD- 2.88 ID- 1.5 Length .25 2.88 Dual Back Pressure Valve 2 3/8" PAC OD- 2.88 ID-1 Length 1.23' 2.88 Jars 2 3/8" PAC OD- 2.88 ID- 0.800 Length 5.55 2.88 Hyd. Disconnect 2 3/8" PAC OD-2.88 ID- 0.687 Length 1.46 2.88 Cir. Sub 2 3/8" PAC OD-2.880 ID-N/A Length 1.22 2.88 National Agitator 2 3/8" PAC OD-2.88 ID-N/A Length 4.54 2.88 Motor 2 3/8" PAC OD-2.88 ID-N/A Length 12.9' Cross over 2 3/8" PAC Pin x 2 7/8" Reg Box 2 7/8" OD-3.50 ID-N/A Length 0.65 4 3/4" JZ Rock Bit. Length 0.50' Total Tool Length 28.30
7/12/2013 03:00	7/12/2013 06:00	3	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Wih & Drilled out kill plug @ 8,724' CTM. Drill time 10 mins. Pump rate 3 bpm @ 3700 psi, return rate 3.5 bpm @ 1500 psi. Ran 10 bbl. sweep. washed & milled cfps #24 & 23 Pumping 3-Bpm @ 3800 psi, return rate 3.5 Bpm @ 1550 psi. Washing to Cfp# 22 @ 9,089' @ Report Time.

Report #: 21 Daily Operation: 7/12/2013 06:00 - 7/13/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378	
Days From Spud (days) 73	Days on Location (days) 21	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT		

Operations Summary

Drill CFP #22, Tag plug #21, Pump Sweep
Make Short Trip To 6900'.
Drilled Plugs #21, 20, & 19. Tag plug # 18.
Made short trip to 7000'. Drilled plugs 18,17, & 16 Short trip .
Drilled #12, 11, & 10. Short Trip to 7000 @ report Time

Pumped 4320 BBL
FTR 229,712 bbls.
RT 4300 bbls.
CR 6037 bbls.
LTR 223,705 bbls.

Remarks

No accidents or incidents.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/12/2013 06:00	7/12/2013 06:45	0.75	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Drill plug #22 @ 9686' CTM . Drill time 13 mins. Pump rate 2.5 BPM @ 3820 psi. Return Rate 3.5 BPM @ 1450 PSI. Tag plug # 21. Prepare for short trip.
7/12/2013 06:45	7/12/2013 10:00	3.25	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip to 6900'. Making extremely heavy sand. Circulate hole clean.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/12/2013 10:00	7/12/2013 11:45	1.75	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Drill plug # 21 @ 9964' CTM. Drill time 9 mins. Pump rate 3 BPM @ 4150 PSI. Return rate 4 BPM @ 1470 PSI. Pump sweep. Drill plug # 20 @ 10,273' CTM. Drill time 10 mins. Pump rate 3.0 BPM @ 4900 PSI. Return Rate 4.0 BPM @ 1540 PSI. Pump sweep. Drill plug #19 @ 10,573' CTM. Drill time 10 min. Pump rate 3.0 BPM @ 4400 PSI. Return rate 4.0 BPM @ 1520 PSI. Pump sweep. Tag plug # 18. Prepare for short trip.
7/12/2013 11:45	7/12/2013 14:45	3	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip to 7000',making heavy sand. Circulate clean.
7/12/2013 14:45	7/12/2013 17:15	2.5	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Drill plug # 18 @10,844' CTM. Drill time 10 mins. Pump rate 3 BPM @ 4600 PSI. Return rate 4.0 BPM @ 1370 PSI. Drill plug # 17 @ 11,142' CTM. Drill time 10 mins. Pump rate 3.0 BPM @ 4600 PSI. Return rate 4.0 BPM @ 1425 PSI. Drill plug #16 @ 11,440 CTM. Drill time 10 min. Pump rate 3.0 BPM @ 4880 PSI. Return rate 4.0 BPM @ 1375 PSI. Tag plug # 15. Prepare for short trip.
7/12/2013 17:15	7/12/2013 19:45	2.5	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip to 7200'.
7/12/2013 19:45	7/12/2013 23:00	3.25	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Drill plug # 15 @11,740' CTM. Drill time 11 mins. Pump rate 3 BPM @ 4600 PSI. Return rate 4.0 BPM @ 1470 PSI. Drill plug # 14 @ 12,009' CTM. Drill time 13 mins. Pump rate 3.0 BPM @ 4600 PSI. Return rate 4.0 BPM @ 1525 PSI. Drill plug #13 @ 12,340 CTM. Drill time 5 min. Pump rate 3.0 BPM @ 4880 PSI. Return rate 4.0 BPM @ 1475 PSI. Tag plug # 12. Prepare for short trip.
7/12/2013 23:00	7/13/2013 03:00	4	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip to 7200'.
7/13/2013 03:00	7/13/2013 06:00	3	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Drill plug # 12 @12,570' CTM. Drill time 5 mins. Pump rate 3 BPM @ 5300 PSI. Return rate 4.0 BPM @ 1470 PSI. Drill plug # 11 @ 12,872' CTM. Drill time 35 mins. Pump rate 3.0 BPM @ 5300 PSI. Return rate 4.0 BPM @ 1525 PSI. Drill plug #10 @ 13,161 CTM. Drill time 10 min. Pump rate 3.0 BPM @ 5350 PSI. Return rate 4.0 BPM @ 1475 PSI. Tag plug # 9. Prepare for short trip.

Report #: 22 Daily Operation: 7/13/2013 06:00 - 7/14/2013 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM		AFE Number 027378	
Days From Spud (days) 74	Days on Location (days) 22	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT

Operations Summary

Make short trip to 7600' making heavy sand.
 Drill CFP #'s 9,8,& 7.
 Tag plug # 6. Drop pump rate to 2.5 BPM. Start N2 @ 660 SCF/Min.
 Prepare to short trip. // Wih Drilled Cfps #6, #5, #4. Tag #3 Dropped pump rate to 2.5 BPM. Start N2 @ 660 SCF/Min @ Report time.

Pumped 4140 BBL
 FTR 233,882 bbls.
 RT 2190 bbls.
 CR 8,227 bbls.
 LTR 225,655 bbls. (Pumped 150K Scfn.)

Remarks

No accidents or incidents.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/13/2013 06:00	7/13/2013 12:15	6.25	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip to 7600' making heavy sand. Dropped pump rate to 2.5 BPM and pumped N2 @ 600 scf/min during short trip. Circulate hole clean.
7/13/2013 12:15	7/13/2013 17:00	4.75	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Drill plug # 9 @ 13,425' CTM. Drill time 8 mins. Pump rate 3 BPM @ 4500 PSI. Return rate 4.0 BPM @ 1450 PSI. Drill plug # 8 @ 13,719 CTM. Drill time 8 mins. Pump rate 3 BPM @ 4970 PSI. Return Rate 4.0 BPM @ 1470 PSI. Drill plug #7 @ 14,023 CTM. Drill time 5 mibs. Pump rate 3 BPM @ 4800 PSI. Return rate 4.0 BPM @ 1450 PSI. Pump sweep. Drop pump rate to 2.5 BPM. Start N2 @ 600 SCF/Min. Prepare to short trip.
7/13/2013 17:00	7/13/2013 22:00	5	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip to 7650.
7/13/2013 22:00	7/14/2013 04:00	6	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Drill plug #6 @ 14,274' CTM. Drill time 9 mins. Pump rate 3 BPM @ 5300 PSI. Return rate 4.0 BPM @ 1500 PSI. Drill plug # 5 @ 14,579 CTM. Drill time 7 mins. Pump rate 3 BPM @ 5345 PSI. Return Rate 4.0 BPM @ 1500 PSI. Drill plug #4 @ 14,836 CTM. Drill time 14 mins. Pump rate 3 BPM @ 5500 PSI. Return rate 4.0 BPM @ 1500 PSI. Pump sweep. Drop pump rate to 2.5 BPM. Start N2 @ 600 SCF/Min. Prepare to short trip.
7/14/2013 04:00	7/14/2013 06:00	2	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip to 7,650'.

Report #: 23 Daily Operation: 7/14/2013 06:00 - 7/15/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 75	Days on Location (days) 23	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT	

Operations Summary

Make short trip to 7700'.
Drill plug #'s 3 & 2. Pump sweep.
Make short trip, stuck Tbg @ 11,718'. worked pipe, surged well. miru Frac pumps Flush Csg. Ru Frac Pumps to Flush down csg.

Pumped 4300
FTR 228,253 bbls.
RT 1702 bbls.
CR 9,929 bbls.
LTR 238,182 bbls. (Pumped 260K Scfn.

Remarks
No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/14/2013 06:00	7/14/2013 11:00	5	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip to 7700'. Pumping 2.5 BPM with 600 SCF N2.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/14/2013 11:00	7/14/2013 16:00	5	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Drill plug # 3 @ 15,115 CTM. Drill time 9 mins. Pump rate 3.0 BPM @ 4902 PSI. Return rate 4.0 BPM @ 1320 PSI. Drill plug #2 @ 15,414 CTM. Drill time 17 mins. Pump rate 3.0 BPM @ 5060 PSI. Return rate 4.0 BPM @ 1330 PSI. Drop pump rate to 2.5 BPM, start N2 @ 600 SCFM. Prepare to short trip w/ sweep.
7/14/2013 16:00	7/15/2013 06:00	14	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Make short trip puh too 12,718', pumping 600 scf N2 & 2.5 bpm fw @ 4990 psi w/ 1490 Fcp. pipe stuck. worked pipe, surged well, cut nitrogen. Pumping 3-bpm @ 5990 psi, w/ 970 psi fcp. work pipe. Ordered 2 frac pumps, blender. will establish rate & flush Csg & attempt work pipe free. Ru Eqp @ report Time.

Report #: 24 Daily Operation: 7/15/2013 06:00 - 7/16/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 76	Days on Location (days) 24	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT	

Operations Summary

PPS Test Lines.

Pump down annulus ramping up to BPM, while pumping down CT @ 2BPM. (360 BBI down annulus).

Shutdown PPS pumps, increase rate to 3 BPM on CT.

Pull CT as wt allows. Pumped down annulus two times w/ no relief on pipe. 01:00 Hrs, SWI & Secured well, let formation, csg relax. Eot @ 11,961'.

Pumped 4200 Bbls // 855 bbls treated fw w/ Frac Pumps Dn Csg.

FTR 243,237 bbls.

RT 1580 bbls.

CR 11,509 bbls.

LTR 231,728 bbls. (Pumped 134K Scfn.

Remarks

No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/15/2013 06:00	7/15/2013 12:00	6	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	PPS test lines. Slow CT pump rate to 2 BPM. Start pumping down annulus ramping rate from 5 BPM to 20 BPM. Rate 5 BPM @ 1300 PSI 10 BPM @ 1630 PSI 15 BPM @ 3000 PSI 20 BPM @ 4360 PSI CT @ 12,654'. No Movement while pumping down annulus. Shutdown annulus pump. Start pulling CT as weight allows while puming thru CT @ 3BPM @ 5000 PSI. CT depth 12,380'.
7/15/2013 12:00	7/15/2013 15:00	3	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Slow CT pump rate to 2BPM. CT depth 12,355'. Start pumping down annulus ramping rate from 5 BPM to 20 BPM. Attempt to pull CT while pumping down annulus at 10 BPM. No movement. Shutdown casing pumps after pumping 275 BBL. Increase CT pump rate to 3 BPM @ 4810 PSI, return rate 4 BPM @ 1650 PSI. Start pulling CT as weight allows.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/15/2013 15:00	7/16/2013 01:00	10	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Slow CT pump rate to 2BPM. CT depth 12,184'. Start pumping down annulus ramping rate from 5 BPM to 20 BPM. Attempt to pull CT while pumping down annulus at 10 BPM. No movement. Shutdown casing pumps after pumping 275 BBL. Increase CT pump rate to 3 BPM @ 4920 PSI, return rate 4 BPM @ 1760 PSI. Start pulling CT as weight allows. Puh to 11,961'. in 9 hrs & stopped pulling due drag. Slow CT pump rate to 2BPM. CT depth 11,961'. Start pumping down annulus ramping rate from 5 BPM to 20 BPM. Attempt to pull CT while pumping down annulus at 10 BPM. No movement. Shutdown casing pumps after pumping 220- BBL // Shut well in, 01:00 hrs. let formation // csg relax.
7/16/2013 01:00	7/16/2013 06:00	5	COMPL	Shut down for night	SDFN	Well shut in.

Report #: 25 Daily Operation: 7/16/2013 06:00 - 7/17/2013 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 77	Days on Location (days) 25	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT

Operations Summary

Attempt to pull CT , CT @ 11,961'. No movement up or down.
Pump 275 BBL down Csg @ 20 BPM.
Work Tbg , no movement.
MIRU hydration unit.
Pump 200 BBL gel & 300 BBL water down csg @ 20 BPM.
Work Tbg, No movement.
Pull valve out of CT pump.
Pump 3BPM while working CT, Pumped N2 @ 600 scf w/ 1.5 bpm fw // worked pipe puh to 11,534' @ Report Time.

Pumped 4100 Bbls
FTR 247,337 bbls.
RT 4150 bbls.
CR 15,659 bbls.
LTR 231,678 bbls. (Pumped 162K Scfn.

Remarks

No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/16/2013 06:00	7/16/2013 07:00	1	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Work tubing up and down pumping 3 BPM @ 4800 PSI. No move up or down..
7/16/2013 07:00	7/16/2013 11:00	4	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Pump down casing wit PPS. 5 BPM @ 1220 PSI 10 BPM @ 2800 PSI 15 BPM @ 3200 PSI 20 BPM @ 4400 PSI Pumped 290 BBLS Pump 50K SCF N2. Work CT pulling up to 35K over weight. No movement up or down.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/16/2013 11:00	7/16/2013 13:00	2	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	RU PPS hydration unit while working tbg. Pump down casing with 200 BBL gel and 300 BBL water behind. 5 BPM @ 1200 PSI 10 BPM @ 1600 PSI 15 BPM @ 2500 PSI 20 BPM @ 4600 PSI. Monitor 9H while pumping down casing, no change in it. Pumped 500 BBL. Attempt to move tbg, no success.
7/16/2013 13:00	7/16/2013 23:00	10	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Pull one valve out CT pump. Start pumping 3 BPM thru tubing and working pipe. CTM 11,957. Tbg. Worked pipe Puh to 11,538'. Pumping 3 bpm w/ 4 bpm returns @ 890 psi fcp. Relaxed pipe in natural position, pull 15k over, with no movement.
7/16/2013 23:00	7/17/2013 06:00	7	COMPL	Milling plugs with coil tubing. Includes RIH w/mil	MILL	Lowered rate to 1.5 bpm, Pumping 600 scf n2 down tbg, taking 4 bpm on Returns w/ pipe in natural position. worked pipe all positions, w/ no movement. cont working pipe @ Report time. Eot 11,534'

Report #: 26 Daily Operation: 7/17/2013 06:00 - 7/18/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 78	Days on Location (days) 25	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT	

Operations Summary

Con't attempting to free-up CT, EOT @11,534' CTM.
Held JSA Safety Meeting w/ day crew.
Con't flowing well, making medium sand.
Circulate w/ N2 & Fluid.
RD Tetra 3" flow back iron.
RU PPS high rate pumps.
Tested pump iron to 8000 psi, good test.
Pumped 500 bbls of 40 lbs gel and water down CT annulus.
CT still stuck, EOT @ 11,532' CTM.
Flow well back @ 5 BPM, FCP 150 PSI.
Shut well in , tanks full, transfer pump to disposal not running.
Wait to change out pump and water trucks to arrive.
Water trucks arrive, haul water to disposal.
Flow well to tanks.
Flowing Well back @ report time. EOT-11,525.

Pumped 2900 Bbls
FTR 250,237 bbls.
RT 3911 bbls.
CR 19,570 bbls.
LTR 230,667 bbls
N2 Pumped 99,075 SCF

Remarks

No accidents or incidents.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/17/2013 06:00	7/17/2013 07:30	1.5	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Continue attempting to free-up coiled tubing. EOT @ 11,534' CTM.
7/17/2013 07:30	7/17/2013 07:45	0.25	PROD1	SHARE	SFTY	Held JSA Safety Meeting w/ day crew.
7/17/2013 07:45	7/17/2013 14:00	6.25	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Open well on 48/64 choke @ 400 psi. Well making medium sand. Continue working tubing attempting to free-up coil tubing. PU 10 k lbs. over string weight. Pumped fluid down coil at 3 bpm @ 4200 psi. Continue flowing coil annulus at 3 bpm @ 290 psi.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/17/2013 14:00	7/17/2013 15:30	1.5	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Start pumping N2 @ 1200 scf/ per min., fluid at 1 bpm. Dropped N2 rate to 750 scf/ per min, increased fluid to 2.5 bpm. No increase in FB rate. Return rate @ 2.5 bpm at 275 psi. CT stuck above Old School BHA.
7/17/2013 15:30	7/17/2013 18:00	2.5	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	SD N2 and increased fluid rate to 3.0 bpm. Trash (plug parts) in flow cross gate valve. Cross pumped thru flow cross to clear debris from valve. RD Tetra flow back 3" iron. RU PPS high rate pumps to both flow cross valves. PPS tested annulus to 8000 psi, good test. Start pumping down CT annulus at 24 bpm and 3 bpm down coil. Annulus pressure increased to 5800 psi, CT pressure at 4000 psi. Dropped annulus rate to 20 bpm @ 5300 psi. Pumped 200 bbls of 40 lbs gel, follow by 300 bbls of water. Slow rate to 3 bpm, reciprocated coil while surging well. Pumped a total of 500 bbls. EOT @ 11,532' CTM.
7/17/2013 18:00	7/17/2013 21:15	3.25	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Flow well back @ 5 BPM @ 545 PSI. Dropped to 150 PSI in 15 minutes. Made 10 BBL oil last hour.
7/17/2013 21:15	7/18/2013 00:00	2.75	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Closed well in. Tanks full. Transfer pump will not start. Waiting to get pump changed out & water trucks to arrive.
7/18/2013 00:00	7/18/2013 00:45	0.75	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Water trucks arrive, start hauling water to disposal and get transfer pump running and pumping to disposal to lower tanks.
7/18/2013 00:45	7/18/2013 00:45		UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	SICP 1200 PSI. Open well to tanks 5.0 BPM @ 675 PSI. Pump 20 BBL sweep with dye 3BPM @ 4490. Return rate 5 BPM @ 475 PSI. Dropped rate to 1.0 BPM, N2 @ 1200 SCFM Cut N2 to clear CT. Did not see sweep return. Work pipe pulling 15K over. EOT @ 11,525'. Shutdown pump. Continue flowing well @ 5 BPM @ 175 PSI.

Report #: 27 Daily Operation: 7/18/2013 06:00 - 7/19/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378		
Days From Spud (days) 79	Days on Location (days) 26	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT			

Operations Summary

Held JSA Safety Meeting.
 Con't flowing well back to frac tank.
 Perform tubing free point & stretch calculations.
 SI well to install flow cross additional gate valves.
 SDFN, Well SI over-night.
 Well SI at Report time. SICP 1500 PSI
 Will attempt to move CT.

Pumped 0 Bbls
 FTR 250,237 bbls.
 RT 0 bbls.
 CR 19,570 bbls.
 LTR 230,667 bbls

Remarks

No accidents or incidetns

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/18/2013 06:00	7/18/2013 06:15	0.25	PROD1	SHARE	SFTY	Held JSA Safety Meeting.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/18/2013 06:15	7/18/2013 08:30	2.25	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Con't flowing well back to frac tank. Flowing back at 3.8 bpm @ 140 psi, well flowing back oil, no sand. Perform tubing free point & stretch calculations. Performed three estimates. Pulled 5000# over string weight, Free pipe @ 7,573'. Pulled 10000# over string weight, Free pipe @ 8,939'. Pulled 15000# over string weight, Free pipe @ 8,562'.
7/18/2013 08:30	7/18/2013 18:00	9.5	PROD1	OTHER	WSI	SI well to install flow cross additional gate valves. SICP 140 psi at 08:20. Waiting on orders, well still SI. Orders are, leave well SI over-night for evaluation. SICP 1400 psi. Secured location and released support crews. CT supervisor & CT operator on location overseeing their equipment.
7/18/2013 18:00	7/19/2013 06:00	12	PROD1	OTHER	WSI	Well shut in over night with CT monitoring well and equipment. Pressure over night. 18:00 Casing psi 1000 PSI / Tbg psi 1700 PSI 20:00 Casing psi 1250 PSI / Tbg psi 1700 PSI 22:00 Casing psi 1250 PSI / Tbg psi 1700 PSI 00:00 Casing psi 1500 PSI / Tbg psi 1700 PSI 02:00 Casing psi 1500 PSI / Tbg psi 1695 PSI 04:00 Casing psi 1500 PSI / Tbg psi 1690 PSI 06:00 Casing psi 1500 PSI / Tbg psi 1683 PSI CT @ 11,525' Well closed in at report time. Will attempt to move CT.

Report #: 28 Daily Operation: 7/19/2013 06:00 - 7/20/2013 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 80	Days on Location (days) 27	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT

Operations Summary

Held JSA Safety Meeting.
SITP 1680 psi on coil, 1500 psi on csg.
Attempted to free-up coil.
Reciprocate coil, made a total of 7'.
CT still stuck, EOT @ 11,518' CTM.
Tested 2 7/8" Dual BPV's before cutting coil.
BPV's leaking, pumped 11.6 ppg heavy fluid.
Unable to kill coil, 11.6 PPG Cacl. not heavy enough.
Well shut in overnight. Water will not be here until 1:00 PM Saturday.
Well SI at report time, waiting on heavy water. CT @ 11,518'.

Pumped 1049 Bbls
FTR 251,286 bbls.
RT 2825 bbls.
CR 22,395 bbls.
LTR 228,891 bbls

Remarks

No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/19/2013 06:00	7/19/2013 06:15	0.25	PROD1	SHARE	SFTY	Held JSA Safety Meeting w/ day crew. SITP 1680 psi. SICP 1500 psi.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/19/2013 06:15	7/19/2013 18:00	11.7 5	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Attempting to free-up coil tubing. Unlocked CT BOP slips & safety rams. Attempt to RIH & POOH, no luck. Started pumping fluid down coil at 3 bpm @ 4740 psi. Was able to slowly reciprocate coil movement made a total of 7'. Pulled 36,000 lbs over string weight @ 73,000 lbs. Coiled tubing still stuck, CT still stuck, EOT @ 11,518' CTM.. Tested Old School 2 7/8" Dual BPV's before cutting coil. BPV's leaking. Pumped 60 bbls of 11.6 ppg heavy fluid, and 25 bbls of fresh water to displace 7.455' of coil on CT reel. 11.6 ppg fluid not heavy enough to kill coiled tubing. Trying to locate heavy fluid.
7/19/2013 18:00	7/20/2013 06:00	12	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Well closed in. Heavy water will not leave Henderson until 3:00 A.M. Support crews released until noon tomorrow. CT Supervisor and CT Operator on location to monitor their equipment. Pressure over night: 20:00 Csg PSI 800 PSI / CT PSI 770 PSI 22:00 Csg PSI 900 PSI / CT PSI 750 PSI 00:00 Csg PSI 1040 PSI / CT PSI 730 PSI 02:00 Csg PSI 1110 PSI / CT PSI 715 PSI 04:00 Csg PSI 1110 PSI / CT PSI 680 PSI 06:00 Csg PSI 1130 PSI / CT PSI 670 PSI Well closed in @ report time, waiting for heavy water. CT @ 11,518'.

Report #: 29 Daily Operation: 7/20/2013 06:00 - 7/21/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 81	Days on Location (days) 28	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT	

Operations Summary

Well SI.
SITP 660 psi.
SICP 1200 psi.
Spotted frac tank for bromide fluid.
Waiting on 13 PPG Sodium bromide.
Attempting to free-up coil was unsuccessful.
Pulled 80000 lbs. made approx 40', ct still stuck.
EOT @ 11,478' CTM.
Pumped 13 PPG Sodium bromide kill fluid.
Bleed coiled tubing to 0 psi.
Cut tubing above injector gooseneck.
ND CT lubricator.
Welded tubing back together.
NU CT pack off to BOP.
Cut pipe above top injector and back ben.
Weld 2" 1502 On top of CT For WL.
RU API WL and RIH with freepoint.
Broke winch line on WL crane while setting up tool.
Wait on crane to come out of Odessa.
Crane Arrived, RU Key Crane to hold Lube
Laydown lube & tool.

Pumped 78 Bbls
FTR 251,364 bbls.
RT 230 bbls.
CR 22,625 bbls.
LTR 228,739 bbls

Remarks
Incident with WL crane

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/20/2013 06:00	7/20/2013 09:00	3	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Well SI, waiting on 13 PPG Sodium bromide heavy fluid. SITP 660 psi. SICP 1200 psi.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/20/2013 09:00	7/20/2013 10:00	1	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Spotted frac tank for 13 ppg Sodium bromide.
7/20/2013 10:00	7/20/2013 18:00	8	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Attempting to free-up coil tubing. Reciprocating coil up/down while flowing CT annulus. Made approx 40'. Pulled 43,000 lbs over string weight @ 80,000 lbs. Coiled tubing still stuck, EOT @ 11,478' CTM. Pumped 50 bbls of 13 PPG Sodium bromide heavy fluid, and 28 bbls of fresh water to displace 7.455' of coil on CT reel. Set and locked BOP slips and tubing rams. Bleed coil pressure to 0 psi. Cut coil above injector gooseneck. ND lubricator, welded 2 3/8" coil back together. Stripped pipe through CT injector. NU CT pack off to BOP.
7/20/2013 18:00	7/20/2013 23:45	5.75	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Cut pipe above top of injector. Do backbend on pipe. Attempt to put on 2" ID external coil connector. CT swelled, could not get connector made up on pipe. Weld 2" 1502 thread on top of CT with 2" plug valve for WL to tie on to. RU WL on well.
7/20/2013 23:45	7/21/2013 01:30	1.75	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	RIH with freepoint tool. Stop WL @6200' to set up tool. Pulled up to 10 pts over and was coming back down to tbg weight. CT came down too fast and snapped winch cable on WL crane. Chained off lubricator to injector head and POOH with WL. Closed valve on CT. Key has crane coming out of Odessa
7/21/2013 01:30	7/21/2013 04:30	3	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Wait on crane to come out of Odessa.
7/21/2013 04:30	7/21/2013 06:00	1.5	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Crane arrived. RU Key Crane. Lay down lube and tool. Checking out freepoint tool and getting ready to run back in hole at report time.

Report #: 30 Daily Operation: 7/21/2013 06:00 - 7/22/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig KEY ENERGY SERVICES, INC., CT	
82	29	16,345.0	-26.0			

Operations Summary

Well SI.
SITP 0 psi.
SICP 1250 psi.
RD WL lubricator & crane.
RU Key Energy crane.
Held JSA Safety Meeting.
RIH w/ API 1 7/16" Titan dog free point tool.
Unable to calibrate free point tool.
POOH w/ 1 7/16" Titan dog free point tool.
PU 1" O.D. free point tool.
RIH w/ Free point tool.
Coil started POOH w/ attempting free point.
POOH w/ API WL & free point BHA.
RD WL & Support equipment.
Attempt to POOH w/ Coil.
Pulled 25' Coil still stuck, EOT @ 11,453'.
Cut CT above top Injector, Make backbend, Weld on connection WL
RU WL to run Bow spring freepoint tool.
RIH to 9700', Checking freepoint ever 100'
Pump 35 BBL 13 PPG Sodium Bromine
Well dead, come off well with WL'
Rigg up WL to RIH with cutter @ report time.

Pumped 174 Bbls
FTR 251,542 bbls.
RT 124 bbls.
CR 22,749 bbls.
LTR 228,793 bbls

Remarks

No accidents or incidents

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary						
Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/21/2013 06:00	7/21/2013 06:30	0.5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	RD WL lubricator & API crane.
7/21/2013 06:30	7/21/2013 06:45	0.25	PROD1	SHARE	SFTY	Held JSA Safety Meeting. WSI, SITP 0 psi, SICP 1250 psi.
7/21/2013 06:45	7/21/2013 07:00	0.25	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	RU API 1 7/16" Titan dog free point tool w/ Key Energy crane turck.
7/21/2013 07:00	7/21/2013 07:45	0.75	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	RIH w/ API 1 7/16" Titan dog free point tool. Stopped at 6,500' WLM. Attempting to calibrate free point tool. Having problems calibrating free point tool. POOH w/ 1 7/16" Titan dog free point tool.
7/21/2013 07:45	7/21/2013 08:30	0.75	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	ND 1 7/16" Titan dog free point tool, PU 1" OD Bow-spring free point tool.
7/21/2013 08:30	7/21/2013 11:45	3.25	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	RIH w/ 1" OD Bow-Spring free point tool. Stopped at 6,500' WLM. Attempting to calibrate free point tool. Tool calibrated, RIH to 7,709' WLM. Calibrate tool, good test. Start pumping down WL at 2.5 bpm @ 3000 psi. Stopped at 11,010' WLM, SD pump. Reciprocating coil attempting to locate free pipe. Coiled tubing appears to become free. POOH w/ API WL & Bow spring free point tool.
7/21/2013 11:45	7/21/2013 12:45	1	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	OOH w/ API WL & Bow spring free point tool. Pumped 50 bbls of 13 PPG Sodium Bromide heavy fluid to kill coil pipe.
7/21/2013 12:45	7/21/2013 18:00	5.25	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Coil dead, RD API WL Free point tool. RD CT injector. Welded 2 3/8" OD CT back together. Attempt to POOH w/ Coil. Pulled a total of 25', Coil still stuck, EOT @ 11,453'. Prep to RU API WL for free point .
7/21/2013 18:00	7/21/2013 20:45	2.75	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Cut CT above Injector, Make back bend in pipe. Weld on 2" 1502 connection for WL.RU WL on well.
7/21/2013 20:45	7/21/2013 22:45	2	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	RIH w/ 1" OD Bow-Spring free point tool. Stopped at 7500' WLM. A to calibrate free point tool. Tool calibrated, RIH to 7,709' WLM. Calibrate tool, good test. RIH to 7900' checking tool every 100'. Some readings are good and other readings are not right. POOH with tool to change out. Change out freepoint tool could not get started in hole. Lay tool and prepare to change out crane.
7/21/2013 22:45	7/22/2013 00:00	1.25	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	RD Key Crane, RU API crane to hold grease head straight. Rigback up WL on well.
7/22/2013 00:00	7/22/2013 04:45	4.75	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	RIH withAPI WL and bow spring free point tool. Stop @ 7500' and calibrate tool. Pump down tool to 9709'. Start checkin frepoint. 9708'-0% Free 9600'-70% Free 9500'-65% Free 9400'-52% Free 9300'-56% Free 9200'-50% Free 9100'- 55% Free 9000'-87% Free 8900' 63% Free 8800'- 73% Free 8700"-90% Free 8600'-90% Free POOH with Wireline
7/22/2013 04:45	7/22/2013 06:00	1.25	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	OOH with WL. Pump 35 BBL. Well dead. Come off well with WL . Rigging up WL to run cutter @ report time.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 31 Daily Operation: 7/22/2013 06:00 - 7/23/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
83	30	16,345.0	-26.0		KEY ENERGY SERVICES, INC., CT			

Operations Summary
 Well SI.
 SITP 400 psi.
 SICP 1190 psi.
 POOH w/ Bow spring free point tool.
 Held JSA Safety Meeting.
 PU 1.680"OD Cutter.
 RIH w/ 1.680" Cutter
 Cut coil @ 9,250' WLM.
 POOH w/ Spent cutter.
 Welded coil back together.
 NU CT injector & pack off to top of BOP.
 POOH w/ Coiled tubing.
 RDMOL Key CTU w/ Bad tubing.
 MIRU Key Energy CTU w/ New tubing.

Pumped 595 Bbls
 FTR 252,137 bbls.
 RT 724 bbls.
 CR 23,743 bbls.
 LTR 228,664 bbls

Remarks
 No accidents or incidents

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
7/22/2013 06:00	7/22/2013 06:15	0.25	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Well SI. Continue POOH w/ Bow spring free point tool. SITP 400 psi. SICP 1190 psi.
7/22/2013 06:15	7/22/2013 07:30	1.25	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	Held JSA Safety Meeting. NU Bow spring free point tool, NU 1.680"OD Cutter. RIH w/ 1.680" Cutter, cut coil @ 9,250' WLM, leaving 2,203' of pipe and 2 7/8" OD Motor & JZ Bit BHA. POOH w/ Spent cutter.
7/22/2013 07:30	7/22/2013 08:15	0.75	UNPLANNED	Stuck Pipe and events related to fix prob (cement)	U_SP	POOH w/ 1.680" OD spent cutter.
7/22/2013 08:15	7/22/2013 13:00	4.75	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Pumpede 40 bbls of 13 lbs Sodium Bromide. RD API WL, ND CT injector, welded 2 3/8" OD coil back together. NU injector/pack off to top of BOP.
7/22/2013 13:00	7/22/2013 16:00	3	SURF-TRIP	TOOH	TRIP	POOH 7 ft. coil sticky, pulled 13,000 lbs over string weight. Open well to 48/64" choke, Start pumping down coil at 3 bpm. Worked pipe and pulled 17,000 lbs over string weight @ 53,000 lbs. Tubing pulled free, dragging a few feet. POOH.
7/22/2013 16:00	7/22/2013 22:00	6	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	OOH w/ Coiled tubing. Purge tubing w/ N2. RDMO to side of location. MIRU another Key Energy Services 2 3/8" OD CTU w/ new coiled tubing.
7/22/2013 22:00	7/23/2013 06:00	8	UNPLANNED	Waiting on anything other than weather (orders, eq	U_WT	Waiting for drillout on 8H to move in WOR.
7/23/2013 06:00	7/23/2013 06:00					

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 32 Daily Operation: 8/7/2013 06:00 - 8/8/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM		AFE Number 027378
Days From Spud (days) 99	Days on Location (days) 31	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service Company, 205

Operations Summary
WSI, no activity.
Down due to lightning..
Skid rig over and related equipment, R/U same.
Open well @ 680 psi, flow well.

Remarks
No accidents or incidents to report.

Key Energy CT Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 898 bbls.

CR: 24,641 BBLs

LTR: 227,496 BBLs

8 Roll-off boxes Full on location. 1 in use is 1/2 full, 2 on stand-by. 12 total on location.

275 jnt, 2-3/8" PH-6 + 2 bad.

313 jnt. 2-7/8" PH-6 + 1 bad = 591 total jnts. on location out since 7/17/13.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/7/2013 06:00	8/7/2013 18:00	12	COMPL	Other operations	OTHR	WSI, No activity waiting on 8h ops.
8/7/2013 18:00	8/7/2013 20:00	2	COMPL_UNPLN D	Waiting on weather	U_WOW	Wait on lightning to pass.
8/7/2013 20:00	8/8/2013 00:00	4	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Slide over from 8h, R/U ESCO #205 WSI & related equipment. Open well w/680 psi, @21:00 well flowing to sand x on 27/64 choke @ 3-3/4 bpm. flow psi dropped to 300 before climbing @23:30 to 650 psi on 30/64 choke 3-1/2 bpm
8/8/2013 00:00	8/8/2013 06:00	6	COMPL	Flow back	FLWTST	Flowback well, average psi 550/3.5 bpm on 30/64 chk.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 33 Daily Operation: 8/8/2013 06:00 - 8/9/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 100	Days on Location (days) 32	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service Company, 205	

Operations Summary
 Flowing back well on 30/64 chk.
 N/D night cap, N/U shear blinds & BOP
 Test BOP & function test shears.
 Waiting on snubbing crew.
 Snubbing crew& Unit AOL @ 23:00 hrs, will begin R/U @ 06:00 hrs.

Remarks
 No accidents or incidents to report.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 300 bbls.

CR: 24,941 BBLS

LTR: 227,196 BBLS

8 Roll-off boxes Full on location. 1 in use is 1/2 full, 2 on stand-by. 12 total on location.

275 jnt, 2-3/8" PH-6 + 2 bad.

313 jnt, 2-7/8" PH-6 + 1 bad = 591 total jnts. on location out since 7/17/13.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/8/2013 06:00	8/8/2013 09:00	3	COMPL	Other operations	OTHR	Flowing Well at 3.5 BPM at 580 PSi on 30/64 Choke. Waiting on snubbing Unit.
8/8/2013 09:00	8/8/2013 15:00	6	COMPL	Other operations	OTHR	Well Shut In. ISIP= 550 PSI. 1 Hour= 840 PSI. 3 Hours= 950 PSI. 6 Hours= 1040 PSI
8/8/2013 15:00	8/8/2013 23:00	8	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	ND Night Cap. NU Shears. Prepare for Snubbing Unit Arrival. Well Closed In. Test BOP & FB iron to 2,500 psi, function test blind shears.
8/8/2013 23:00	8/9/2013 06:00	7	COMPL	Other operations	OTHR	WSI, 1,100 psi, no activity, snubbing unit on location @ 23:00 hrs. will R/U @ 06:00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 34 Daily Operation: 8/9/2013 06:00 - 8/10/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 101	Days on Location (days) 33	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service Company, 205	

Operations Summary
 PJSM .
 Snubbing Unit Down (PTO Shaft)
 MIRU Snubbing Unit.
 PJSM, w/all personnel.
 RIH w/ mill to dress top of fish.
 Snubbing slips would not grip pipe, change slip dies & try again w/no success, L/D joint & P/U new jnt. w/same outcome. Try 8'sub from vision w/no problem.
 Wait on 60 new jnts. to AOL.
 Off-load pipe, rack & tally same.
 P/U new jnt. make up test in slips.
 WSI, w/no activity, waiting on daylight.

Remarks
 No accidents or incidents to report.

CSS Down Time: 8 Hrs. Cum: 8 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 0 bbls.

CR: 24,941 BBLs

LTR: 227,196 BBLs

8 Roll-off boxes Full on location. 1 in use is 1/2 full, 2 on stand-by. 12 total on location.

275 jnt, 2-3/8" PH-6 + 2 bad.
 313 jnt. 2-7/8" PH-6 + 1 bad = 591 total jnts. on location out since 7/17/13.
 60 jnt. 2-3/8" PH-6 delivered 8/9/13

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/9/2013 06:00	8/9/2013 07:00	1	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	PJSM. MIRU Snubbing Unit(CSS)
8/9/2013 07:00	8/9/2013 15:00	8	COMPL_UNPLND	Other i.e.: pressure control equipment failure, wa	U_OTHR	Snubbing Unit Down with U-Joints on PTO Waiting on Repairs
8/9/2013 15:00	8/9/2013 17:30	2.5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	MIRU Snubbing Unit Respot Flowback and Prepare to RIH with mill to Dress Top of fish
8/9/2013 17:30	8/9/2013 18:00	0.5	PROD1	SHARE	SFTY	PJSM, w/all personnel.
8/9/2013 18:00	8/9/2013 19:00	1	PROD1	WORK	RURD	M/U BHA #1 as follows: F-Nipple 1-Jnt. tubing String Float 3-1/8 OD X 2.83L String Float 3-1/8 OD X 2.90 L XO-Sub 3-1/2 OD X 1-3/4 ID X 1.50 L XO-Sub 3-1/8OD X 1-1/8 ID X 1.50 L XO-Sub 3-5/8 OD X 1 ID X 1.09 L 4-5/8" Concave Mill 1.10 FN 3-1/8 OD X 1-1/4 ID X 2.42 L Total BHA #1: 12.89, Trip #1
8/9/2013 19:00	8/9/2013 19:45	0.75	UNPLANNED	OTHER	U_WOW	Waiting on lightning to pass.
8/9/2013 19:45	8/9/2013 21:45	2	COMPL	Other operations	OTHR	Try to snub in hole w/new slip dies, would not grip pipe, change out slip dies again, L/D jnt. P/U new jnt. w/same problem, P/U Brand new 8' pump jnt. from Vision tool, w/ no problems. Ordered 60 new jnts. 2-3/8" PH-6 P110, to sub in.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/9/2013 21:45	8/9/2013 23:00	1.25	UNPLANNED	Waiting on anything other than weather (orders, eq)	U_WT	Wait on 60 new jnts. 2-3/8" PH-6 P110 to AOL.
8/9/2013 23:00	8/10/2013 00:00	1	COMPL	Other operations	OTHR	Off-load new 2-3/8" PH-6 P110, rack & tally, P/U new jnt, make test run to be sure no problems.
8/10/2013 00:00	8/10/2013 06:00	6	COMPL	Other operations	OTHR	WSI, no activity due to snubbing crew will not snub after dark.

Report #: 35 Daily Operation: 8/10/2013 06:00 - 8/11/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig Energy Service Company, 205	
102	34	16,345.0	-26.0			

Operations Summary

PJSM
Run in hole with 180jts. Shut down for repairs
Repair leak on flange above BOP and Rotac valve on snubbing unit.
PJSM, w/all personnel.
Continue TIH to 9,219' w/jnt. #297, P/U power swivel, fill tubing.
Generator supplying electricity to sand X over sped causing it to short out which ignited gas from sand X. no one injured. 911 was dipatched to location, fire was contained to Sand X only, Saftey Sup. & Compl. Sup. were notified. We were given the go ahead after all is safe to Trip out of lateral.
Safety meeting w/all personnel.
TOH laying down 50 jnts w/wsi, leaving 246 jnts. in hole & bit @ 7,656' w/1,150 psi on well.
WSI, no activity pending arrival of safety man.

Remarks

No accidents or incidents to report.

CSS Down Time: 4 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 0 bbls.

CR: 24,941 BBLS

LTR: 227,196 BBLS

8 Roll-off boxes Full on location. 1 in use is 1/2 full, 2 on stand-by. 12 total on location.

275 jnt, 2-3/8" PH-6 + 2 bad.
313 jnt. 2-7/8" PH-6 + 1 bad = 591 total jnts. on location out since 7/17/13.
60 jnt. 2-3/8" PH-6 delivered 8/9/13

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/10/2013 06:00	8/10/2013 06:15	0.25	PROD1	SHARE	SFTY	PJSM.
8/10/2013 06:15	8/10/2013 14:30	8.25	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Start RIH with 2-3/8" PH6 P110 WS. with 4-5/8" concave mill to dress Top of Fish M/U BHA #1 as follows: F-Nipple 1-Jnt. tubing String Float 3-1/8 OD X 2.83L String Float 3-1/8 OD X 2.90 L XO-Sub 3-1/2 OD X 1-3/4 ID X 1.50 L XO-Sub 3-1/8OD X 1-1/8 ID X 1.50 L XO-Sub 3-5/8 OD X 1 ID X 1.09 L 4-5/8" Concave Mill 1.10 FN 3-1/8 OD X 1-1/4 ID X 2.42 L Total BHA #1: 12.89, Trip #1
8/10/2013 14:30	8/10/2013 14:45	0.25	PROD1	SHARE	SFTY	PJSM, w/all personnel.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/10/2013 14:45	8/10/2013 18:45	4	COMPL	Other operations	OTHR	Stop tripping to repair leaking flange on top of BOP and Rotac valve on snubbing unit.
8/10/2013 18:45	8/10/2013 22:45	4	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Resume trip in hole w/BHA #1, tagged TOF on jnt. #297 - 12' in @ 9,219' P/U & P/U power swivel, fill tubing w/36 bbls. water.
8/10/2013 22:45	8/11/2013 01:00	2.25	COMPL	Other operations	OTHR	Sand X on location caught fire. Supervisor was called & 911, everyone accounted for, Well was shut in, running engines were shut down. No one was injured, Fire department arrived and cooled down Sand X, Took written statements from everyone on location at time of incident. Full HSE report on portal.
8/11/2013 01:00	8/11/2013 01:15	0.25	PROD1	SHARE	SFTY	Safety Meeting w/all personnel. NOTE: Completions Sup. Owen Wampler got the Ok from Safety Sup. Jay Miller to pull up out of the lateral after all checked out safe.
8/11/2013 01:15	8/11/2013 03:00	1.75	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Trip out laying down 50 jnts. to 7,656' 246 jnts. in hole w/well shut in w/1,150 psi
8/11/2013 03:00	8/11/2013 06:00	3	COMPL	Other operations	OTHR	WSI, no activity pending safety investigation.

Report #: 36 Daily Operation: 8/11/2013 06:00 - 8/12/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 103	Days on Location (days) 35	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service Company, 205	

Operations Summary

PJSM.
Safety investigation.
Clean all fluids from sand x, move 7 FB tanks used for oil storage to University 10-13 9h, spot in south west corner, move oil from 7 & 8h pad to 10-13 9h pad (app. 1,500 bbls.)
Respot pumps to desired distance.
Set 1 gas buster tank & plumb in, R/D sand x .

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 0 bbls.

CR: 24,941 BBLS

LTR: 227,196 BBLS

8 Roll-off boxes Full on location. 1 in use is 1/2 full, 2 on stand-by. 12 total on location.

275 jnt, 2-3/8" PH-6 + 2 bad.
313 jnt. 2-7/8" PH-6 + 1 bad = 591 total jnts. on location out since 7/17/13.
60 jnt. 2-3/8" PH-6 delivered 8/9/13

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/11/2013 06:00	8/11/2013 06:15	0.25	PROD1	SHARE	SFTY	PJSM, w/all personnel.
8/11/2013 06:15	8/11/2013 08:00	1.75	COMPL	Other operations	OTHR	WSI, no activity pending safety investigation.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/11/2013 08:00	8/11/2013 20:00	12	COMPL	Other operations	OTHR	WSI, Start safety investigation.
8/11/2013 20:00	8/12/2013 06:00	10	COMPL	Other operations	OTHR	Haul water and transfer oil from sand x to have cleaned & removed from location, in A.M. Move FB tanks #817, #721, #505, #085, #269, #348, #708 & #198 from this location and oil from same to University 10-13 9 h, oil was put into all tanks excluding #505. Respot pumps, R/D sand X , spot gas buster and tie in FB iron.

Report #: 37 Daily Operation: 8/12/2013 06:00 - 8/13/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 104	Days on Location (days) 36	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service Company, 205	

Operations Summary

PJSM. Respot equipment, tanks, and cleanout tanks.
Wait on flapper valve for gas buster tank, replace same.
PJSM w/all personnel.
TIH w/ 2-3/8" PH-6 to TOF @ 9,219' P/U power swivel, open well w/1,100 psi, Dress off fish 1'
TOH L/D W.S. to 7,656' Pump hvy water for well control.
Well controlled, continue TOH L/D 2-3/8" W.S. to 7,259' (233 jnts in hole)

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT:642 bbls.

CR: 25,583 BBLS

LTR: 226,584 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

275 jnt, 2-3/8" PH-6 + 2 bad.
313 jnt. 2-7/8" PH-6 + 1 bad = 591 total jnts. on location out since 7/17/13.
60 jnt. 2-3/8" PH-6 delivered 8/9/13

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/12/2013 06:00	8/12/2013 06:15	0.25	COMPL	Other operations	OTHR	PJSM
8/12/2013 06:15	8/12/2013 18:00	11.7 5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Respot pump and swivel, LP and TT, MIRU open top tanks with gasbusters, cleanout Sandex with supersucker.Haul 4 loads water,Move Mud Pumps spot Swivel Prepare to RIH with Tubing and BHA
8/12/2013 18:00	8/12/2013 18:45	0.75	UNPLANNED	Waiting on anything other than weather (orders, eq	U_WT	Waiting on 8" flapper valve for front of gas buster tank. Crew install same.
8/12/2013 18:45	8/12/2013 19:00	0.25	PROD1	SHARE	SFTY	PJSM w/all personnel.
8/12/2013 19:00	8/12/2013 21:30	2.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	TIH w/50 jnts. & 8' & 10' subs to tag TOF @ 9,219' (tubing measurement)
8/12/2013 21:30	8/12/2013 23:30	2	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	P/U power swivel, open well w/1,100 psi fill tubing w/TFW, mill off 1' of fish, pumping 2 bpm/1,200 psi, returning 3.6 to 4.9 bpm/380-400 psi on 34/64 opening to full open.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/12/2013 23:30	8/13/2013 00:30	1	COMPL	Other operations	OTHR	Pump 36 bbls. 10# brine down tubing, L/D power swivel.
8/13/2013 00:30	8/13/2013 02:30	2	PROD-TRIP BHA	TRIP FOR BHA	TRIP BHA	TOH laying down 50 jnts. 2-3/8" PH-6 to 7,656' w/well flowing on open chk. @3 bpm/160 psi climbing to 300 psi EOT 7,656'.
8/13/2013 02:30	8/13/2013 04:30	2	UNPLANNED	Well Control events & any circulating related to g	U_WC	Pump 208 bbls. 10# brine down tubing & 100 bbls. 11.6# hvy water down casing to control well.
8/13/2013 04:30	8/13/2013 06:00	1.5	PROD-TRIP BHA	TRIP FOR BHA	TRIP BHA	Well controled, continue TOH L/D 2-3/8" W.S. to BHA, depth @ report time 7,259'

Report #: 38 Daily Operation: 8/13/2013 06:00 - 8/14/2013 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 105	Days on Location (days) 37	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service Company, 205

Operations Summary

PJSM.
TOH Laying Down Tubing
OOH w/BHA #1.
RDMO CSS Snubbing Unit
Swap out 2 3/8" and 2 7/8" ws for new.
Tally Pipe and prepare BHA#2
M/U BHA #2
PJSM w/all personnel
Trip in hole with 4-11/16 overshot, (BHA#2)
Tag fish w/280 jnts 2-3/8 & 17 jnts 2-7/8" 297 total @ 9,186' P/U, fill tubing P/U swivel.
Work fish into packoff, Pull 90K, 100K & 110K, pipe moving @ 75K, L/D swivel.
Continue pulling pipe (60 to 80K)

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 90 bbls.

CR: 25,673 BBLS

LTR: 226,464 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

275 jnt, 2-3/8" PH-6 + 2 bad.

313 jnt. 2-7/8" PH-6 + 1 bad = 591 total jnts. on location out since 7/17/13.

60 jnt. 2-3/8" PH-6 delivered 8/9/13

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/13/2013 06:00	8/13/2013 06:30	0.5	PROD1	SHARE	SFTY	PJSM
8/13/2013 06:30	8/13/2013 10:15	3.75	PROD-TRIP BHA	TRIP FOR BHA	TRIP BHA	TOH with BHA #1, Laying down
8/13/2013 10:15	8/13/2013 17:30	7.25	MOBILIZATION	RDMO	RDMO	Rigging down CSS snubbing unit. Swap out 2.375"/2.875" workstring for new 2.375"/2.875" workstring. Tally pipe. Transfer oil. Prepare to RIH

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/13/2013 17:30	8/14/2013 00:30	7	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	M/U BHA #2 (sealed overshot). PJSM, w/all personnel. TIH BHA #2 on 280 jnts. 2-3/8" PH-6 & 17 jnts. 2-7/8" PH-6 to tag fish, w/jnt # 297 - 10' in, @ 9,186' L/D Jnt. # 297, P/U power swivel w/ 6' & 8' tubing subs. Fill tubing w/treated fresh water 3.7 bpm/2000 psi, fluid level 1,197'. tag fish, work overshot over fish & into packoff.
8/14/2013 00:30	8/14/2013 03:30	3	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Pull to 90K several times working pipe, bring pump on @ 2 bpm/1,800 psi, continue to work pipe, Pull to 100 K while pumping & working string, Pull to 110 K while pumping & working string. Pipe began to move, weight 75K, L/D tubing subs, pull 1 additional jnt. w/ swivel. Pulling from 60 to 70 K, L/D power swivel P/U YT elevators.
8/14/2013 03:30	8/14/2013 06:00	2.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue pulling pipe, L/D 2-7/8 @ 8,917' plus 2,203' fish. pulling heavy 60 to 85K. well is static.

Report #: 39 Daily Operation: 8/14/2013 06:00 - 8/15/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027378
Days From Spud (days) 106	Days on Location (days) 38	End Depth (ftGRD) 16,345.0
End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service Company, 205

Operations Summary

PJSM.
TOH with Tubing w/ 14 Jnts. No Movement
Wait on WL Unit to Run Freepoint
MIRU WL
RIH Freepoint 10,700'
RIH to cut Pipe at 10,700'/ Charge shorted out/ POOH to Replace
RIH to cut Coil Tubing at 10,700'

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 0 bbls.

CR: 25,464 BBLS

LTR: 226,464 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnt, 2-3/8" PH-6

315 jnt. 2-7/8" PH-6

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/14/2013 06:00	8/14/2013 06:30	0.5	PROD1	SHARE	SFTY	PPE, Staying hydrated

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/14/2013 06:30	8/14/2013 18:00	11.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	LD 14 additional jnts and pipe quit moving. RU swivel, pump 2 bpm down tubing to try and establish circulation. Continue working pipe from 50,000 to 110,000. Pump ball in attempt to open circulating port in fish. Saw pressure increase of pump pressure from 2500 psi to 3000 psi while pumping 1.6 bpm. No circulation. Pump 5/8" ball down tb to disconnect downhole motor from fish. PU to 70K on workstring. Pump 50 bbls of f/w without seeing any pressure increase or weight decrease. Call for WL and keep working pipe while waiting. Worked 1 jnt out of the hole. Kill tubing with 30 bbls of 10# brine and 30 bbls of 11.6# water. LD power swivel and LD jnt. Keep working tubing while waiting on WL. 282 jnts IH. Top of fish @ 8779'.
8/14/2013 18:00	8/14/2013 19:30	1.5	PROD1	SHARE	SFTY	PPE
8/14/2013 19:30	8/14/2013 20:30	1	COMPL	Other wireline operations	WLOTHR	MIRU API Wireline. RIH with CCL and Weight Bar for Dummy Run. Pumped down at 2.25 BPM at 3000 PSI to 10,900' WLM.Start POOH
8/14/2013 20:30	8/14/2013 22:15	1.75	COMPL	Other wireline operations	WLOTHR	OOH with dummy run. RD wl lubricator. RU wl freepoint tools. Pump 25bbls 11.6# to kill tubing.
8/14/2013 22:15	8/15/2013 00:45	2.5	COMPL	Other wireline operations	WLOTHR	RIH with WL. Freepoint. Calibrate Tool at 8,850'. RIH Checking Freepoint at 9,515' with 80% free. 10,023' with 80% Free. 10,519' with 100% Free. 10,907' with 40% Free. Pulled up to 10,716' with 90% Free. POOH with Freepoint.
8/15/2013 00:45	8/15/2013 02:45	2	COMPL	Other operations	OTHR	Pump 32 Bbls. 11.6 # Water for well control. Indication Ball Seated. Pulled several Time working Pipe from 33,00 to 62,00 over string weight
8/15/2013 02:45	8/15/2013 04:30	1.75	COMPL	Other wireline operations	WLOTHR	MU Cutters RIH to Make Cut at 10,700'. Short on Gun Mis Fire POOH. Gun watered out. Replace Charge check firing panel prepare to RIH
8/15/2013 04:30	8/15/2013 06:00	1.5	COMPL	Other wireline operations	WLOTHR	RIH to 10,700' cut coil Tubing Fish

Report #: 40 Daily Operation: 8/15/2013 06:00 - 8/16/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
107	39	16,345.0	-26.0		Cudd Energy Services, 1	

Operations Summary

PJSM.
POOH WL/RDMO AND WAIT FOR CUDD 1 1/4" COIL UNIT TO ARRIVE.
MIRU COIL @ 0330.

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 0 bbls.

CR: 25,464 BBLs

LTR: 226,464 BBLs

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnt. 2-3/8" PH-6
315 jnt. 2-7/8" PH-6

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/15/2013 06:00	8/15/2013 06:30	0.5	PROD1	SHARE	SFTY	Safety Meeting/ Trip Hazards
8/15/2013 06:30	8/15/2013 09:06	2.6	COMPL	Other wireline operations	WLOTHR	WL hung up w/ cutters. Surged tubing to release cutter without any luck. Called in Cudd Coil Unit 1" 1/4 tubing
8/15/2013 09:06	8/15/2013 10:06	1	COMPL	Other wireline operations	WLOTHR	Cutter broke loose with 3000lbs of tension WL POOH W/cutter
8/15/2013 10:06	8/15/2013 11:18	1.2	COMPL	Other operations	OTHR	Attempted to perform a pumpdown to make sure Basic was going to be able to pumpdown WL.
8/15/2013 11:18	8/16/2013 03:30	16.2	COMPL	Other operations	OTHR	Standby waiting on arrival of coil unit
8/16/2013 03:30	8/16/2013 04:00	0.5	PROD1	SHARE	SFTY	Safety Meeting/ Trip Hazards and coil operations.
8/16/2013 04:00	8/16/2013 06:00	2	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	MIRU Cudd 1 1/4" coil unit and other related equipment. BHA consisting of (Coil Connector/Back Pressure Valve/Bowen Up/Down Jar/Hydraulic Disconnect/Titan Motor 1.70"/Junk Mill 1.75"). Total Length of 21.54".

Report #: 41 Daily Operation: 8/16/2013 06:00 - 8/17/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 108	Days on Location (days) 40	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Cudd Energy Services, 1	

Operations Summary
 PJSM w/all vendors OL.
 Finish RU CTU
 Make Clean Out Run
 RIH with Coil /Cut Tubing at 11,341'
 POOH Swap out 1.69" cutter. RIH w/coil to cut at 10700'
 POOH
 OOH with coil. Rig coil down
 POOH w/2-3/8" Tubing

Remarks
 No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 0 bbls.

CR: 25,464 BBLS

LTR: 226,464 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6
 315 jnts. 2-7/8" PH-6
 26 jnts. 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/16/2013 06:00	8/16/2013 06:15	0.25	PROD1	SHARE	SFTY	PJSM
8/16/2013 06:15	8/16/2013 09:00	2.75	MOBILIZATION	MIRU	MIRU	Continue MIRU CTU and pump.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/16/2013 09:00	8/16/2013 15:30	6.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Perform walk around test with 4 way gas monitor. Test BOP on CT and flowback iron to 3000 psi. Test Good. MURIH w/ BHA consisting of Coil Connector/Back Pressure Valve/Bowen Up/Down Jar/Hydraulic Disconnect/Titan Motor 1.70"/Junk Mill 1.75". Total Length of 21.54". RIH @ 60 fpm to depth of 11,355' and tag top of coil connector on fish. Pump 1 bbl sweep to end of tubing and TOOH @ 100 fpm. LD motor & mill.
8/16/2013 15:30	8/16/2013 16:00	0.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	MU w/1 11/16" ball drop spectra cutter on CT.
8/16/2013 16:00	8/16/2013 19:00	3	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RIH Make Cut at 11,341' Start POOH
8/16/2013 19:00	8/16/2013 21:00	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	POOH with 1.25" Coil
8/16/2013 21:00	8/16/2013 21:30	0.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	MU 1.69" Ball Drop Spectra Cutter
8/16/2013 21:30	8/17/2013 00:00	2.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	NU Flange, Equalize Pressure at 900 psi. Open well/RIH. 790 PSI on 2.375 PH6 tubing to cut 2.375" coil at 10,700' Make Cut Start POOH
8/17/2013 00:00	8/17/2013 02:00	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	POOH with 1.25" Coil
8/17/2013 02:00	8/17/2013 04:00	2	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Blow Reel Dry, RDMO Cudd Coil Unit, RU Flowback, Set Tubing Board. Prepare to Pull Tubing.Pump 25 Bbbs. 11.6# water for well control
8/17/2013 04:00	8/17/2013 06:00	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	POOH with 2-3/8" Tubing and Fish

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 42 Daily Operation: 8/17/2013 06:00 - 8/18/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 109	Days on Location (days) 41	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary

PJSM w/all vendors OL
 POOH w/WS and overshot.
 Wait on Hydraulic cutters to cut fish.
 JSA.
 POOH with fish cutting in 45' segments and laying on the ground.
 OOH with 1921' of 2.375" coil. Prepare to run bladed mill to dress top of coil in hole. Inspect tubing rams on BOP's
 2.375" Ram Piston bent. Wait for replacement 3 ram BOP's from Vision.
 Rig up new 3 Ram BOP's. Test Blinds. RIH w/ Bladed Mill

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 0 bbls.

CR: 25,464 BBLS

LTR: 226,464 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts, 2-3/8" PH-6
 315 jnts, 2-7/8" PH-6
 26 jnts, 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/17/2013 06:00	8/17/2013 06:30	0.5	PROD1	SHARE	SFTY	Proper PPE
8/17/2013 06:30	8/17/2013 10:30	4	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	TOOH W/work string
8/17/2013 10:30	8/17/2013 15:30	5	PROD1	SHARE	SFTY	Safety Meeting. Went over JSA's and Hot worker's Permit w/ Pioneer Head Safety Guy (Jay). Assigned people to perform in designated areas along with work procedures. As we waited on Hydraulic cutters to arrive.
8/17/2013 15:30	8/17/2013 16:00	0.5	COMPL	Other operations	OTHR	Fished out overshot
8/17/2013 16:00	8/17/2013 21:00	5	COMPL	Other operations	OTHR	Performed first cut @ 1600hrs, cut coil every 40ft of coil along the way.
8/17/2013 21:00	8/17/2013 22:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	1921 ft of 2.375" coil out of hole in +- 40 ft cuts.
8/17/2013 22:00	8/18/2013 05:00	7	COMPL_UNPLN D	Other i.e.: pressure control equipment failure, wa	U_OTHR	Prepare to run concave bladed mill on jointed pipe in to dress off top of next section of coil. Inspect tubing rams on BOP's. Rams bent on 2.375" Pipe Ram. Wait for replacement 3 Ram BOP from Vision.
8/18/2013 05:00	8/18/2013 06:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RIH with 4.625" bladed concave mill to dress off top of fish.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 43 Daily Operation: 8/18/2013 06:00 - 8/19/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 110	Days on Location (days) 42	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary
 PJSM
 RIH with 4-5/8" mill to dress top of fish
 POOH with mill
 Pump 10# and 11.6# water for well control
 RIH with 350' Wash over Pipe
 Tag Top of Fish w/ 342 Jnts. in.
 Start to wash over Fish
 Run 10 Bbl. Gel Sweep Start POOH

Remarks
 No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 0 bbls.

CR: 25,464 BBLS

LTR: 226,464 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6
 315 jnts. 2-7/8" PH-6
 26 jnts. 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/18/2013 06:00	8/18/2013 06:15	0.25	PROD1	SHARE	SFTY	Held PJSM w/all vendors
8/18/2013 06:15	8/18/2013 16:15	10	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	MURIH w/4 5/8" Concave mill, X-over, X-over, X-over, string float, 280 jnts 2 3/8 PH6 WS, X-over, 47 jnts 2 7/8" PH6 WS. Tag sand @ 10,144' w/327 jnts IH. PU power swivel and circulate down to fish. Tag top of fish @ 10,614' w/343 jnts IH. Pump 10 bbl sweep and mill off 1' of fish.
8/18/2013 16:15	8/18/2013 19:00	2.75	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Circulate well w/10# brine water. Kill tbg w/25 bbls 11.6#. TOOH laying down 15 jnts stand back the rest. With 100 jnts IH killed the well w/164 bbls of 11.6# water.
8/18/2013 19:00	8/19/2013 03:00	8	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RIH with 351' wash over pipe Tag Top of Fish at 10,614'. w/342 Jnts. in. MU Swivel and Replace Packing Element. Start to wash over Fish
8/19/2013 03:00	8/19/2013 05:00	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Wash Over Fish With 351' Wash Pipe Circulating down with Swivel
8/19/2013 05:00	8/19/2013 06:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Run 10 Bbl. Gel Sweep. Start POOH

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 44 Daily Operation: 8/19/2013 06:00 - 8/20/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
111	43	16,345.0	-26.0		Energy Service company, 205	

Operations Summary
 PJSM
 Circulate wellbore clean
 Kill tubing w/25 bbls 11.6# water.
 TOOH standing back WS.
 W/200 jnts IH pump 135 bbls 11.6# water to kill CSG.
 Finish TOOH w/WS and wash pipe.
 OOH with WP. PU Overshot Assy. Trip in hole to latch fish.
 Pulled coil free. Laid down 7 jts, pulled 12 stands. Pulled heavy.
 Pump 50 bbls 10# water down annulus, 15 bbls 11.6# down tubing.
 Pulled free. Resumed pulling doubles.
 Killed well 130 bbl 11.6# down annulus and 15 bbls 11.6# down tubing.
 Continue pulling out of hole standing back.

Remarks
 No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 581 bbls.

CR: 26,045 BBLs

LTR: 225,883 BBLs

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts, 2-3/8" PH-6
 315 jnts, 2-7/8" PH-6
 26 jnts, 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/19/2013 06:00	8/19/2013 06:30	0.5	PROD1	SHARE	SFTY	Safety meeting (communication)
8/19/2013 06:30	8/19/2013 13:00	6.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Circulate clean w/ 250 bbl. 10 lb. brine and 10 bbl. 80 vis. sweep. POOH w/ WS and WP. W/200 jnts IH pump 135 bbls 11.6# water to kill CSG. Continue TOOH w/WS and WP.
8/19/2013 13:00	8/19/2013 14:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	OOH with WP. Lay WP down. PU Overshot Assy.
8/19/2013 14:00	8/19/2013 18:00	4	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Trip in Hole with Overshot Assy.
8/19/2013 18:00	8/19/2013 20:00	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	PJSM for Night Tour. Continue Trip in Hole to engage fish.
8/19/2013 20:00	8/19/2013 21:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Latch overshot on Fish Start Working Pipe. Fish dragging free.
8/19/2013 21:00	8/19/2013 22:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue pull singles out of hole for 7 jts laid down. Begin pull stands
8/19/2013 22:00	8/19/2013 23:45	1.75	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Pulled 12 stands and pulled heavy. Pump 50 bbls 10# Brine down annulus and 15 bbls 11.6# down tubing. Pulled free.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/19/2013 23:45	8/20/2013 00:30	0.75	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue POOH pulling doubles to 2.375" PH6 X-over.
8/20/2013 00:30	8/20/2013 03:30	3	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Stop at X-over to 2.375" PH6. Change rubber. Well head pressure at 400 psi. Pump 130 bbls of 11.6# water down annulus of tubing and 15 bbls 11.6# water down tubing. Well controlled
8/20/2013 03:30	8/20/2013 06:00	2.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue pulling stands out of hole to surface

Report #: 45 Daily Operation: 8/20/2013 06:00 - 8/21/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 112	Days on Location (days) 44	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary

PJSM
POOH w/ WS
Cut 700' 2-3/8" Coil & Lay Down
Wait on XO Bushing
RIH with Wash Pipe on 2-3/8" WS
Tag fish at 11,354 ft. Pushing.
SD at 11,900 ft. Run gel sweep circulate hole clean/continue push fish to bottom.

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 215 bbls.

CR: 25,679 BBLS

LTR: 225,668 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6
315 jnts. 2-7/8" PH-6
26 jnts. 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/20/2013 06:00	8/20/2013 07:30	1.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue to POOH with 2-3/8" Work String
8/20/2013 07:30	8/20/2013 09:30	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Fish at slips start cutting 2-3/8" coil into 60' sections and laying down
8/20/2013 09:30	8/20/2013 17:30	8	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Out of Hole Shut Well in Wait on 3-1/2" X 4-1/2" Change over Bushing to arrive
8/20/2013 17:30	8/20/2013 22:30	5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RIH with BHA (String Float, 2-3/8" PH6 pup Jnt., XO Sub, Jar, Bumper Sub, XO Sub, Wash Pipe Top Sub, 68' 3-3/4" wash Pipe, 3-1/2" X 4-1/2" XO Bushing, 4-1/2" shoe) on 2-3/8" PH6 work String
8/20/2013 22:30	8/21/2013 00:00	1.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	All stands in hole. Tie back. PU Power Swivel to wash down 28 jts to fish.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/21/2013 00:00	8/21/2013 05:30	5.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Wash single jts down to 11,354'. Tag fish. Continue wash down to 11,900'.
8/21/2013 05:30	8/21/2013 06:00	0.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	SD at 11,900' Circulate 10 bbl 60 vis gel sweep.

Report #: 46 Daily Operation: 8/21/2013 06:00 - 8/22/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig	
113	45	16,345.0	-26.0		Energy Service company, 205	

Operations Summary

PJSM

Circ sweep.

Continue washing jnts down with swivel pushing fish to 14,024'.

Circ sweep.

Continue washing jnts down with swivel pushing fish to 15,500'.

Circ sweep sweeps around.

POOH w/ WS and WP

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,137 bbls.

RT: 161 bbls.

CR: 25,840 BBLS

LTR: 225,507 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6

315 jnts. 2-7/8" PH-6

26 jnts. 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/21/2013 06:00	8/21/2013 07:30	1.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	SD at 11,900' Circulate 10 bbl 60 vis gel sweep.
8/21/2013 07:30	8/21/2013 11:30	4	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue washing single jnts down with swivel pushing fish to 14,024' with 450 jnts.
8/21/2013 11:30	8/21/2013 13:30	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	SD at 14,024' and circulate 10 bbl 60 vis gel sweep.
8/21/2013 13:30	8/21/2013 17:30	4	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue washing single jnts down with swivel pushing fish to 15,500' with 498 jnts. Could not make any more hole.
8/21/2013 17:30	8/21/2013 21:00	3.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Started a 10 bbl fw sweep followed by a second sweep with 10# brine. Got both sweeps back. kill tubing w/ 25 bbls. 11.6 and 5 bbls. fresh water.
8/21/2013 21:00	8/22/2013 06:00	9	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Lay down swivel and POOH w/ WS and WP. Started dragging after pulling 7 stands. RU swivel and rotate out 4 jts. pulling free. RD swivel and continue out of hole. 280 jts. left to pull out at report time.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 47 Daily Operation: 8/22/2013 06:00 - 8/23/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 114	Days on Location (days) 46	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary
 PJSM
 Kill well with 11.6#.
 POOH with ws and washpipe/shoe. Recovered part of BHA down to hyd disconnect.
 RIH with ws, jars and overshot.
 SD and circulate heavy water out.
 Tag TOF at 15,488' (500 jts.)
 Circulate clean w/ 2-10 bbl. 80 vis. sweeps.
 Work over fish and set down.
 PUH leaving 280 jts. to kill well. Kill well w/ 135 bbls. of 11.6# water.
 Continue out of hole to check overshot.
 Nothing in overshot

Remarks
 No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,192 bbls.

RT: -55 bbls.

CR: 25,785 BBLS

LTR: 225,562 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6
 315 jnts. 2-7/8" PH-6
 26 jnts. 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/22/2013 06:00	8/22/2013 07:30	1.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	SD with 120 jnts left in hole and pumped 11.6# to kill well.
8/22/2013 07:30	8/22/2013 09:30	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	POOH with ws and washpipe/shoe. Recovered 10' coil tubing, coil connector, back pressure valve and hyd disconnect.
8/22/2013 09:30	8/22/2013 12:30	3	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Wait on Renegade welder to arrive to weld crossbar into washpipe thread protector. Breakout washpipe and remove partial fish.
8/22/2013 12:30	8/22/2013 17:30	5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RIH with ws jars, bumper sub and overshot.
8/22/2013 17:30	8/22/2013 21:30	4	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	SD at 15,488' (500jts.) RU swivel and circulate heavy water and pump 2-10 bbl. 80 vis. sweeps. Got both sweeps back.
8/22/2013 21:30	8/23/2013 01:30	4	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Rotate down and stack out on fish several times. Pulled up dragging approximately 6,000 lbs. PUH leaving 280 jts. to kill well.
8/23/2013 01:30	8/23/2013 02:30	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Kill well w/ 135 bbls. 11.6# water.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/23/2013 02:30	8/23/2013 06:00	3.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue pulling out fo hole w/ WS,jars and overshot.Fish not in overshot. Preparing to make wash over run at report time.

Report #: 48 Daily Operation: 8/23/2013 06:00 - 8/24/2013 06:00

Job Category ORIG COMPLETION		Primary Job Type OCM			AFE Number 027378	
Days From Spud (days) 115	Days on Location (days) 47	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary

PJSM
RIH with washpipe and shoe.
SD to circulate HW out of wellbore.
RU swivel and run single jnts in.
Wash over and oush fish to 15,932' (513 Jts.) and curclate clean.
RD swivel and POOH.

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,373 bbls.

RT: -181 bbls.

CR: 25,604 BBLS

LTR: 225,743 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6
315 jnts. 2-7/8" PH-6
26 jnts. 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/23/2013 06:00	8/23/2013 09:30	3.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	PJSM and rih with washpipe and shoe.
8/23/2013 09:30	8/23/2013 10:30	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	SD at 8000' and circ heavy water out.
8/23/2013 10:30	8/23/2013 13:30	3	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue rih to tag fish with washpipe and shoe.
8/23/2013 13:30	8/23/2013 15:00	1.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Stacked out on debris at 13,311' on jnt 428. RU swivel and reverse circulate wellbore.
8/23/2013 15:00	8/23/2013 16:30	1.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RD swivel. Attempt to RIH but had to RU swivel to get the jnts down due to friction.
8/23/2013 16:30	8/23/2013 17:30	1	COMPL_UNPLN D	Waiting on weather	U_WOW	Shut down for weather(lightning).
8/23/2013 17:30	8/24/2013 01:30	8	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue RIH with swivel to 15,610' and establish circulation in reverse. Wash to 15,700' and could not keep reverse circulation. Turn circulation around and continue washing over fish to 15,932' (513 jts.) could not make any more hole. Circulate 2- 10bbl. 80 vis. sweeps around.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/24/2013 01:30	8/24/2013 01:30	0	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RD swivel and POOH w/ WS,WP and 4-1/2 shoe. Pulling out of hole at report time.

Report #: 49 Daily Operation: 8/24/2013 06:00 - 8/25/2013 06:00

Job Category ORIG COMPLETION	Primary Job Type OCM	AFE Number 027378
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Days From Spud (days) 116	Days on Location (days) 48	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205
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Operations Summary
 PJSM
 POOH with washpipe and shoe. No fish retrieved.
 RIH with overshot to 13,200' and stacked out.
 circulate pipe on pipe and FR to condition hole.
 Rotate in hole to 15,903' (512 Jts.).
 Establish circulation pressure.
 Work over fish to 15,930' (513 Jts.) pressure increased 400 PSI.
 RD swivel and POOH.

Remarks
 No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,373 bbls.

RT: 9 bbls.

CR: 25,613 BBLS

LTR: 225,734 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6
 315 jnts. 2-7/8" PH-6
 26 jnts. 2-7/8" L80 EUE

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/24/2013 06:00	8/24/2013 07:30	1.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	POOH with WS, washpipe and shoe. Casing flowing 1 bpm at 20 psi.
8/24/2013 07:30	8/24/2013 08:30	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	SD at 8000' and kill well with 90 bbls 11.6# water.
8/24/2013 08:30	8/24/2013 11:00	2.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	POOH with WS, washpipe and shoe. No fish was retrieved.
8/24/2013 11:00	8/24/2013 13:00	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Wait on Vision extension to be delivered.
8/24/2013 13:00	8/24/2013 15:00	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RIH with WS, overshot, jars and an 8' extension.
8/24/2013 15:00	8/24/2013 19:00	4	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Stacked out at 13,200'. Pump pipe on pipe and FR to condition wellbore.
8/24/2013 19:00	8/25/2013 00:00	5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RU swivel and rotate in hole to 15,903' (512 Jts.)

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/25/2013 00:00	8/25/2013 01:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RU pump and establish circulation pressure at 2.5 BPM at 1,300 PSI.
8/25/2013 01:00	8/25/2013 01:30	0.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Work over fish to 15,930' (513 Jts.) pressure increased to 1,00 PSI.
8/25/2013 01:30	8/25/2013 01:30	0	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	RD swivel and POOH. Pulling out of hole at report time.

Report #: 50 Daily Operation: 8/25/2013 06:00 - 8/26/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 117	Days on Location (days) 49	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary

PJSM
Continue POOH with jars and overshot.
Recovered all of BHA left in hole.
RIH with BHA for drillout ops.
RU swivel and break circulation.
Wash to CFP#1 15,928' and drill out in 30 min.
Wash to PBTD 16,233' and circulate clean.
RU wireline and ProTechnics RIH w/ tracer log to 16,187' WLM.
Log out w/ tracer log.

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,637 bbls.

RT: - 264 bbls.

CR: 25,343 BBLS

LTR: 225,998 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6
315 jnts. 2-7/8" PH-6
26 jnts. 2-7/8" L80 EU

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/25/2013 06:00	8/25/2013 08:00	2	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	POOH with WS, jars and overshot.
8/25/2013 08:00	8/25/2013 09:00	1	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	SD at 8000' and kill well with 11.6# water.
8/25/2013 09:00	8/25/2013 12:30	3.5	UNPLANNED	Unplanned Fishing Operations including trips / Mil	U_FSH	Continue POOH with WS, jars and overshot. All BHA including remaining piece of motor, bit sub and bit were recovered.
8/25/2013 12:30	8/25/2013 17:30	5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	RIH with 4 5/8" bear claw bit, bit sub(internal float), string float and "F" profile nipple to drill out remaining FP.
8/25/2013 17:30	8/25/2013 21:00	3.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	RU swivel and break circulation pumping 4 BPM returning 3.8 BPM at 120 PSI.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/25/2013 21:00	8/25/2013 22:00	1	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to CFP# 1 at 15,928' (515 Jts.). Drill out CFP# 1 in 30 min.
8/25/2013 22:00	8/26/2013 02:30	4.5	COMPL	Milling with tubular includes RIH,POOH, Short trip	TUB_MIL L	Wash to PBTD at 16,233' (524 Jts.) Circulate clean w/ 80 vis sweep 70 bbls. and 80 vis sweep. RD swivel.
8/26/2013 02:30	8/26/2013 05:00	2.5	COMPL	Other wireline operations	WLOTHR	RU API wireline and ProTechnics. RIH w/ spectrascan tracer log and pump down tool at 2.5 BPM at 2,000 PSI to 16,187' WLM total of 119 bbls. to pump down.
8/26/2013 05:00	8/26/2013 06:00	1	COMPL	Other wireline operations	WLOTHR	Loggin out of hole w/ tracer log at report time.

Report #: 51 Daily Operation: 8/26/2013 06:00 - 8/27/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 118	Days on Location (days) 50	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary

PJSM
Run log on API WL
POOH laying down WS
Kill well w/ 50 bbls. 11.6# water
ND birdbath and BOPs
RD Basic Energy, Tetra flowback and ESCO workover rig
Clean up location and Displace Big-D polly line w/ fresh water

Remarks

No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,924 bbls.

RT: - 287 bbls.

CR: 25,056 BBLS

LTR: 226,285 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts, 2-3/8" PH-6
315 jnts. 2-7/8" PH-6
26 jnts. 2-7/8" L80 EU

NOTES: Transferred 160 bbls. of oil to storage frack tanks.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/26/2013 06:00	8/26/2013 10:00	4	COMPL	Other wireline operations	WLOTHR	Running Spectra scan log with API WL.
8/26/2013 10:00	8/26/2013 22:00	12	COMPL	Other operations	OTHR	POOH laying down WS. Kill well w/ 11.6# water.
8/26/2013 22:00	8/27/2013 06:00	8	COMPL	Other operations	OTHR	ND birdbath, BOP, sheer rams, flange up wireline cap. RD Basic Energy pumps and Tetra flowback. RD workover spot on location. Clean up location. Displace Big-D polly line w/ fresh water disposal.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 52 Daily Operation: 8/27/2013 06:00 - 8/28/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
119	51	16,345.0	-26.0		Energy Service company, 205			

Operations Summary
 PJSM
 Clean out gasbusters and 1- frac tank
 Release WS and MOL
 Release all equipment used during drill out ops.
 Clean up location
 Well shut in and turned over to production
 0-PSI on well

Remarks
 No accidents or incidents to report.

CSS Down Time: 0 Hrs. Cum: 12 Hrs.

ESCO W/O Rig Down Time: 0 Hrs Cum: 0 Hrs

Key Energy Sandx Down Time: 0 Hrs Cum: 5.25 Hrs

Tetra Down Time: 0 Hrs Cum: 0 Hrs

FTR: 252,924 bbls.

RT: - 287 bbls.

CR: 25,056 BBLS

LTR: 226,285 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

280 jnts. 2-3/8" PH-6
 315 jnts. 2-7/8" PH-6
 26 jnts. 2-7/8" L80 EU

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/27/2013 06:00	8/27/2013 22:00	16	MOBILIZATION	RDMO	RDMO	Clean out gas buster and one frac tank with Key super sucker. Release WS and move off location. Release all equipment used during drill out ops. Clean up location. Well shut in and turned over to production.
8/27/2013 22:00	8/28/2013 06:00	8	PROD1	OTHER	WSI	Well shut in no activity. (0- P.S.I on well)

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 53 Daily Operation: 8/28/2013 06:00 - 8/29/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 120	Days on Location (days) 52	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary
Finished blading location. Production tied in casing. Well was dead.

Remarks
No accidents or incidents to report.

FTR: 252,924 bbls.
RT: - 287 bbls.
CR: 25,056 BBLS
LTR: 226,285 BBLS
10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/28/2013 06:00	8/29/2013 06:00	24	COMPL	Other operations	OTHR	No Activity. Brammer bladed location. Production tied in casing. Well was dead and would not flow.

Report #: 54 Daily Operation: 8/29/2013 06:00 - 8/30/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378
Days From Spud (days) 121	Days on Location (days) 53	End Depth (ftGRD) 16,345.0	End Depth (TVD) (ftGRD) -26.0	Dens Last Mud (lb/gal)	Rig Energy Service company, 205	

Operations Summary
Well still dead. MIRU Energy Service Rig 205. Received & racked 245 jts 2 7/8" 6.5# L-80 tubing.

Remarks
No accidents or incidents to report.

FTR: 252,924 bbls.
RT: - 287 bbls.
CR: 25,056 BBLS
LTR: 226,285 BBLS
10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/29/2013 06:00	8/29/2013 16:00	10	COMPL	Other operations	OTHR	No Activity.
8/29/2013 16:00	8/29/2013 17:00	1	COMPL	Tbg related operations	TUBING	Offloaded 245 jts 2 7/8" 6.5# L-80 tubing.
8/29/2013 17:00	8/29/2013 19:30	2.5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	MIRU Energy Service Rig 205. Loaded tubing on racks.
8/29/2013 19:30	8/30/2013 06:00	10.5	COMPL	Shut down for night	SDFN	Shut Down For Night.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Report #: 55 Daily Operation: 8/30/2013 06:00 - 8/31/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
122	54	16,345.0	-26.0		Energy Service company, 205			

Operations Summary
Well dead. Removed lower frac stack, install Halliburton flange and BTI BOP'S. RIH with ESP on 128 jts 2 7/8" tubing. SDFN.

Remarks
No accidents or incidents to report.

FTR: 252,924 bbls.

CR: 25,056 BBLS

LTR: 226,285 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/30/2013 06:00	8/30/2013 07:00	1	COMPL	Shut down for night	SDFN	Wait on daylight.
8/30/2013 07:00	8/30/2013 11:30	4.5	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Well dead. Tally tubing on rack. Nipple down lower frac tree. Nipple up change over flange and Halliburton hanger. Nipple up BTI BOP.
8/30/2013 11:30	8/30/2013 13:30	2	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Rig up floor and Hyd catwalk. Repair tongs and slips.
8/30/2013 13:30	8/30/2013 21:00	7.5	COMPL	Tbg related operations	TUBING	Make up ESP and RIH on 245 jts 2 7/8" 6.5# L80 new tubing.
8/30/2013 21:00	8/31/2013 06:00	9	COMPL	Shut down for night	SDFN	SDFN

Report #: 56 Daily Operation: 8/31/2013 06:00 - 9/1/2013 06:00

Job Category ORIG COMPLETION			Primary Job Type OCM			AFE Number 027378		
Days From Spud (days)	Days on Location (days)	End Depth (ftGRD)	End Depth (TVD) (ftGRD)	Dens Last Mud (lb/gal)	Rig			
123	55	16,345.0	-26.0		Energy Service company, 205			

Operations Summary
Finish RIH with ESP on 245 jts 2 7/8" tubing to 7618'. RDMO WOR to edge of location.

Remarks
No accidents or incidents to report.

FTR: 252,924 bbls.

CR: 25,056 BBLS

LTR: 226,285 BBLS

10 Roll-off boxes Full on location, 2 on stand-by. 14 total on location.

Time Log Summary

Start Date	End Date	Dur (hr)	Activity	Activity Detail	Operation	Com
8/31/2013 06:00	8/31/2013 09:45	3.75	COMPL	Tbg related operations	TUBING	Finish RIH with ESP and tubing as follows: 242 jts 2 7/8" 6.5# L80 Tbg, HP4-1250 Model 400 Monel Motor w/Intake Setting @ 7484' and bottom @ 7522', Sand Catcher, 3 jts 2 7/8" tubing bullplugged for Tail Pipe. BOT @ 7618'.
8/31/2013 09:45	8/31/2013 12:00	2.25	COMPL	Tbg related operations	TUBING	Spliced electric cable. Landed tubing in hanger.
8/31/2013 12:00	8/31/2013 13:00	1	COMPL	RURD any equipment: WL, EL, CT, etc.	RURD	Rigged down Energy Svcs Rig 205 and all related equipment. Stored rig and equipment on southwest side of location.
8/31/2013 13:00	9/1/2013 06:00	17	COMPL	Other operations	OTHR	Turned well back to Production. No Activity.

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

WELL DETAILS

Well Name UNIVERSITY 10-13 7H	API/UWI 42-383-38236-0000	Operator PIONEER NATURAL RESRC USA, INC
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Wellbore Hole Size

Section Des	Size (in)	Act Top (ftGRD)	Act Btm (ftGRD)	Start Date	End Date
Conductor	24	0.0	120.0	4/22/2013	4/22/2013
Surface	17 1/2	120.0	629.0	5/1/2013	5/1/2013
Intermediate	12 1/4	629.0	7,526.0	5/4/2013	5/10/2013
Production	8 1/2	7,526.0	16,345.0	5/10/2013	6/11/2013

Conductor Casing

Run Date 4/22/2013	Set Depth (ftGRD) 120.0	Centralizers						
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints	20	19.124	94.00	J-55	120.00	1	0.0	120.0

Surface Casing

Set Depth (ftGRD) 621.0	Run Date 5/1/2013	Centralizers 6						
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Cut Off	13 3/8	12.625	47.00	J-55	10.08	1	0.0	10.0
Casing Joints	13 3/8	12.625	47.00	J-55	563.79	14	10.0	573.8
Float Collar	13 3/8	12.625	47.00	J-55	1.40	1	573.8	575.2
Casing Joints	13 3/8	12.625	47.00	J-55	44.27	1	575.2	619.5
Float Shoe	13 3/8	12.625	47.00	J-55	1.50	1	619.5	621.0

Surface Casing Cement

Type Casing	String Surface, 621.0ftGRD	Cementing Start Date 5/2/2013	Cementing End Date 5/2/2013	Cementing Company SCHLUMBERGER	Top (ftGRD) 0.0	Btm (ftGRD) 621.0
Class Class C	Amount (sacks) 720	Yield (ft ³ /sack) 1.71	Density (lb/gal) 13.60			

Intermediate Casing

Set Depth (ftGRD) 7,526.0	Run Date 5/12/2013	Centralizers 39						
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Joints	9 5/8	8.835	40.00	L-80	0.00	0	1.5	1.5
Casing Hanger	9 5/8	8.835	40.00	L-80	3.00	1	1.5	4.5
PUP Joints	9 5/8	8.835	40.00	L-80	0.00	0	4.5	4.5
Casing Joints	9 5/8	8.835	40.00	L-80	2,337.65	50	4.5	2,342.2
Ryt wrap	9 5/8	8.835	40.00	L-80	3,446.51	74	2,342.2	5,788.7
Casing Joints	9 5/8	8.835	40.00	L-80	188.16	4	5,788.7	5,976.8
Casing Joints	9 5/8	8.755	43.50	L-80	1,452.55	31	5,976.8	7,429.4
Float Collar	9 5/8	8.755	43.50	L-80	1.45	1	7,429.4	7,430.8
Casing Joints	9 5/8	8.755	43.50	L-80	93.33	2	7,430.8	7,524.2
Float Shoe	9 5/8	8.755	43.50	L-80	1.85	1	7,524.2	7,526.0

Intermediate Casing Cement

Type Casing	String Intermediate, 7,526.0ftGRD	Cementing Start Date 5/12/2013	Cementing End Date 5/12/2013	Cementing Company SCHLUMBERGER	Top (ftGRD) 3,274.0	Btm (ftGRD) 7,526.0
Class Class C	Amount (sacks) 1,137	Yield (ft ³ /sack) 2.74	Density (lb/gal) 11.00			
Class Class H	Amount (sacks) 185	Yield (ft ³ /sack) 1.07	Density (lb/gal) 16.40			

Production Casing

Set Depth (ftGRD) 16,345.0	Run Date 6/13/2013	Centralizers 21						
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)
Casing Cut Off	5 1/2	4.892	17.00	P-110	0.27	1	0.0	0.3
Casing Joints	5 1/2	4.892	17.00	P-110	6,992.60	171	0.3	6,992.9
Marker Joint	5 1/2	4.892	17.00	P-110	19.55	1	6,992.9	7,012.4
Casing Joints	5 1/2	4.892	17.00	P-110	163.27	4	7,012.4	7,175.7
Marker Joint	5 1/2	4.892	17.00	P-110	19.78	1	7,175.7	7,195.5
Casing Joints	5 1/2	4.892	17.00	P-110	9,059.33	221	7,195.5	16,254.8
Float Collar	5 1/2	0.000	17.00	P-110	2.00	1	16,254.8	16,256.8
Casing Joints	5 1/2	4.892	17.00	P-110	86.21	2	16,256.8	16,343.0
Float Shoe	5 1/2	0.000	17.00	P-110	2.00	1	16,343.0	16,345.0

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Production Casing Cement

Type Casing	String Production, 16,345.0ftGRD	Cementing Start Date 6/13/2013	Cementing End Date 6/13/2013	Cementing Company SCHLUMBERGER	Top (ftGRD) 2.0	Btm (ftGRD) 16,345.0
Class	Amount (sacks)	Yield (ft ³ /sack)	Density (lb/gal)			
Class	Amount (sacks) 391	Yield (ft ³ /sack) 2.68	Density (lb/gal) 11.00			
Class C	Amount (sacks) 1,965	Yield (ft ³ /sack) 1.42	Density (lb/gal) 13.00			

Cement Squeeze

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

Perforations

Top (ftGRD)	Btm (ftGRD)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
8,792.0	9,034.0	Wolfcamp B, Original Hole	4.0	40	Stage 25
9,092.0	9,334.0	Wolfcamp B, Original Hole	4.0	40	Stage 24
9,392.0	9,634.0	Wolfcamp B, Original Hole	4.0	40	Stage 23
9,692.0	9,934.0	Wolfcamp B, Original Hole	4.0	40	Stage 22
9,992.0	10,234.0	Wolfcamp B, Original Hole	4.0	40	Stage 21
10,292.0	10,534.0	Wolfcamp B, Original Hole	4.0	40	Stage 20
10,592.0	10,834.0	Wolfcamp B, Original Hole	4.0	40	Stage 19
10,892.0	11,134.0	Wolfcamp B, Original Hole	4.0	40	Stage 18
11,192.0	11,434.0	Wolfcamp B, Original Hole	4.0	40	Stage 17
11,492.0	11,734.0		4.0	40	Stage 16
11,792.0	12,034.0	Wolfcamp B, Original Hole	4.0	40	Stage 15
12,092.0	12,334.0	Wolfcamp B, Original Hole	4.0	40	Stage 14
12,392.0	12,634.0	Wolfcamp B, Original Hole	4.0	40	Stage 13
12,692.0	12,934.0	Wolfcamp B, Original Hole	4.0	40	Stage 12
12,992.0	13,234.0	Wolfcamp B, Original Hole	4.0	40	Stage 11
13,292.0	13,534.0	Wolfcamp B, Original Hole	4.0	40	Stage 10
13,592.0	13,834.0	Wolfcamp B, Original Hole	4.0	40	Stage 9
13,892.0	14,134.0	Wolfcamp B, Original Hole	4.0	40	Stage 8
14,192.0	14,434.0	Wolfcamp B, Original Hole	4.0	40	Stage 7
14,492.0	14,734.0	Wolfcamp B, Original Hole	4.0	40	Stage 6
14,792.0	15,034.0	Wolfcamp B, Original Hole	4.0	40	Stage 5
15,092.0	15,334.0	Wolfcamp B, Original Hole	4.0	40	Stage 4
15,392.0	15,634.0	Wolfcamp B, Original Hole	4.0	40	Stage 3
15,692.0	15,934.0	Wolfcamp B, Original Hole	4.0	40	Stage 2
15,992.0	16,234.0	Wolfcamp B, Original Hole	4.0	40	Stage 1

Stimulations & Treatments (Actual)

<Comment?>, Wolfcamp B, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
6/24/2013	Stage 1	Pioneer Pumping Services	15,992.0	16,234.0	.5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb; 1.00 Brown Sand Bulk Sand 30000	7,444.00

<Comment?>, Wolfcamp B, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
6/25/2013	Stage 2	Pioneer Pumping Services	15,692.0	15,934.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,158.00

<Comment?>, Wolfcamp B, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
6/26/2013	Stage 3	Pioneer Pumping Services	15,392.0	15,634.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	10,921.00

<Comment?>, Wolfcamp B, Original Hole

Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
6/26/2013	Stage 4	Pioneer Pumping Services	15,092.0	15,334.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	9,795.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Stimulations & Treatments (Actual)						
<Comment?>, Wolfcamp B, Original Hole						
Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)
6/29/2013	Stage 5	Pioneer Pumping Services	14,792.0	15,034.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	12,081.00
<Comment?>, Wolfcamp B, Original Hole						
6/29/2013	Stage 6	Pioneer Pumping Services	14,492.0	14,734.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,382.00
<Comment?>, Wolfcamp B, Original Hole						
6/30/2013	Stage 7	Pioneer Pumping Services	14,192.0	14,434.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	10,463.00
<Comment?>, Wolfcamp B, Original Hole						
6/30/2013	Stage 8	Pioneer Pumping Services	13,892.0	14,134.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	9,751.00
<Comment?>, Wolfcamp B, Original Hole						
6/30/2013	Stage 9	Pioneer Pumping Services	13,592.0	13,834.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,739.00
<Comment?>, Wolfcamp B, Original Hole						
7/1/2013	Stage 10	Pioneer Pumping Services	13,292.0	13,534.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	9,488.00
<Comment?>, Wolfcamp B, Original Hole						
7/1/2013	Stage 11	Pioneer Pumping Services	12,992.0	13,234.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,774.00
<Comment?>, Wolfcamp B, Original Hole						
7/1/2013	Stage 12	Pioneer Pumping Services	12,692.0	12,934.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	9,779.00
<Comment?>, Wolfcamp B, Original Hole						
7/1/2013	Stage 13	Pioneer Pumping Services	12,392.0	12,634.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,730.00
<Comment?>, Wolfcamp B, Original Hole						
7/2/2013	Stage 14	Pioneer Pumping Services	12,092.0	12,334.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,556.00
<Comment?>, Wolfcamp B, Original Hole						
7/2/2013	Stage 15	Pioneer Pumping Services	11,792.0	12,034.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,532.00
<Comment?>, Wolfcamp B, Original Hole						
7/2/2013	Stage 16	Pioneer Pumping Services	11,492.0	11,734.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,852.00
<Comment?>, Wolfcamp B, Original Hole						
7/3/2013	Stage 17	Pioneer Pumping Services	11,192.0	11,434.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,474.00
<Comment?>, Wolfcamp B, Original Hole						
7/4/2013	Stage 18	Pioneer Pumping Services	10,892.0	11,134.0	.5 100 mesh Bulk Sand 12161 lb; .5 Brown Sand Bulk Sand 12097 lb; .75 Brown Sand Bulk Sand 20994 lb;	8,484.00

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Stimulations & Treatments (Actual)										
<Comment?>, Wolfcamp B, Original Hole										
Date	Type	Stim/Treat Company	Min Top Depth (ftGRD)	Max Btm Depth (ftGRD)	Total Add Amount	Total Clean Volume (bbl)				
7/6/2013	Stage 19	Pioneer Pumping Services	10,592.0	10,834.0	.5 100 mesh Bulk Sand 12023 lb; .5 Brown Sand Bulk Sand 11724 lb; .75 Brown Sand Bulk Sand 19200 lb;	8,440.00				
<Comment?>, Wolfcamp B, Original Hole										
7/6/2013	Stage 20	Pioneer Pumping Services	10,292.0	10,534.0	.5 100 mesh Bulk Sand 12487 lb; .5 Brown Sand Bulk Sand 11799 lb; .75 Brown Sand Bulk Sand 20341 lb;	8,453.00				
<Comment?>, Wolfcamp B, Original Hole										
7/6/2013	Stage 21	Pioneer Pumping Services	9,992.0	10,234.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,519.00				
<Comment?>, Wolfcamp B, Original Hole										
7/7/2013	Stage 22	Pioneer Pumping Services	9,692.0	9,934.0	.5 100 mesh Bulk Sand 12500 lb; .5 Brown Sand Bulk Sand 12500 lb; .75 Brown Sand Bulk Sand 20625 lb;	8,453.00				
<Comment?>, Wolfcamp B, Original Hole										
7/7/2013	Stage 23	Pioneer Pumping Services	9,392.0	9,634.0	.5 100 mesh Bulk Sand 12118 lb; .5 Brown Sand Bulk Sand 11799 lb; .75 Brown Sand Bulk Sand 20169 lb;	8,323.00				
<Comment?>, Wolfcamp B, Original Hole										
7/7/2013	Stage 24	Pioneer Pumping Services	9,092.0	9,334.0	.5 100 mesh Bulk Sand 11994 lb; .5 Brown Sand Bulk Sand 11586 lb; .75 Brown Sand Bulk Sand 19528 lb;	8,429.00				
<Comment?>, Wolfcamp B, Original Hole										
7/7/2013	Stage 25	Pioneer Pumping Services	8,792.0	9,034.0	.5 100 mesh Bulk Sand 12334 lb; .5 Brown Sand Bulk Sand 11995 lb; .75 Brown Sand Bulk Sand 20552 lb;	8,310.00				
Zones										
Zone Name						Top (ftGRD)				
Wolfcamp B										
Tubing Details										
Tubing Description				Set Depth (ftGRD)		Run Date				
Tubing - Production				7,588.8		8/31/2013				
Tubing Components										
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)			
Tubing	2 7/8	6.50	L-80	7,390.69	242	0.0	7,390.7			
ESP - Motor	2 7/8			106.02		7,390.7	7,496.7			
Tubing	2 7/8	6.40	L-80	91.62	3	7,496.7	7,588.3			
Bull Plug	2 7/8		L-80	0.50		7,588.3	7,588.8			
Rod Strings										
Rod Description				Set Depth (ftGRD)		Run Date				
Rod Components										
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftGRD)	Btm (ftGRD)	Make	Model	SN
Other In Hole										
Des	Top (ftGRD)	Btm (ftGRD)	OD (in)	Run Date	Pull Date	Com	String	Wellbore		
Composite Plug #1	15,963.0	15,965.0	4.89	6/25/2013	8/25/2013	Baker CFP #1	Production, 16,345.0ftGRD	Original Hole		
Composite Plug #2	15,663.0	15,665.0	4.89	6/25/2013	7/14/2013	Baker CFP #2	Production, 16,345.0ftGRD	Original Hole		
Composite Plug #3	15,363.0	15,365.0	4.89	6/26/2013	7/14/2013	Baker CFP #3	Production, 16,345.0ftGRD	Original Hole		
Composite Plug #4	15,063.0	15,065.0	4.89	6/27/2013	7/14/2013	Baker CFP #4	Production, 16,345.0ftGRD	Original Hole		
Composite Plug #5	14,763.0	14,765.0	4.89	6/29/2013	7/13/2013	Baker CFP #5	Production, 16,345.0ftGRD	Original Hole		

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Other In Hole								
Des	Top (ftGRD)	Btm (ftGRD)	OD (in)	Run Date	Pull Date	Com	String	Wellbore
Composite Plug #6	14,463.0	14,465.0	4.89	6/29/2013	7/13/2013	Baker CFP #6	Production, 16,345.0ftGRD	Original Hole
Composite Plug #7	14,163.0	14,165.0	4.89	6/30/2013	7/13/2013	Baker CFP #7	Production, 16,345.0ftGRD	Original Hole
Composite Plug #8	13,863.0	13,865.0	4.89	6/30/2013	7/13/2013	Baker CFP #8	Production, 16,345.0ftGRD	Original Hole
Composite Plug #9	13,563.0	13,565.0	4.89	6/30/2013	7/13/2013	Baker CFP #9	Production, 16,345.0ftGRD	Original Hole
Composite Plug #10	13,263.0	13,265.0	4.89	7/1/2013	7/13/2013	Baker CFP #10	Production, 16,345.0ftGRD	Original Hole
Composite Plug #11	12,963.0	12,965.0	4.89	7/1/2013	7/13/2013	Baker CFP #11	Production, 16,345.0ftGRD	Original Hole
Composite Plug #12	12,663.0	12,665.0	4.89	7/1/2013	7/13/2013	Baker CFP #12	Production, 16,345.0ftGRD	Original Hole
Composite Plug #13	12,363.0	12,365.0	4.89	7/1/2013	7/12/2013	Baker CFP #13	Production, 16,345.0ftGRD	Original Hole
Composite Plug #14	12,063.0	12,065.0	4.89	7/2/2013	7/12/2013	Baker CFP #14	Production, 16,345.0ftGRD	Original Hole
Composite Plug #15	11,763.0	11,765.0	4.89	7/2/2013	7/12/2013	Baker CFP #15	Production, 16,345.0ftGRD	Original Hole
Composite Plug #16	11,463.0	11,465.0	4.89	7/2/2013	7/12/2013	Baker CFP #16	Production, 16,345.0ftGRD	Original Hole
Composite Plug #17	11,163.0	11,165.0	4.89	7/4/2013	7/12/2013	Baker CFP #17	Production, 16,345.0ftGRD	Original Hole
Composite Plug #18	10,863.0	10,865.0	4.89	7/4/2013	7/12/2013	Baker CFP #18	Production, 16,345.0ftGRD	Original Hole
Composite Plug #19	10,563.0	10,565.0	4.89	7/6/2013	7/12/2013	Baker CFP #19	Production, 16,345.0ftGRD	Original Hole
Composite Plug #20	10,263.0	10,265.0	4.89	7/6/2013	7/12/2013	Baker CFP #20	Production, 16,345.0ftGRD	Original Hole
Composite Plug #21	9,963.0	9,965.0	4.89	7/6/2013	7/12/2013	Baker CFP #21	Production, 16,345.0ftGRD	Original Hole
Composite Plug #22	9,663.0	9,665.0	4.89	7/7/2013	7/12/2013	Baker CFP #22	Production, 16,345.0ftGRD	Original Hole
Composite Plug #23	9,363.0	9,365.0	4.89	7/7/2013	7/12/2013	Baker CFP #23	Production, 16,345.0ftGRD	Original Hole
Composite Plug #24	9,063.0	9,065.0	4.89	7/7/2013	7/12/2013	Baker CFP #24	Production, 16,345.0ftGRD	Original Hole
Kill Plug	8,763.0	8,765.0	4.89	7/7/2013	7/12/2013	Baker CFP #25	Production, 16,345.0ftGRD	Original Hole

Well Tests								
Description					Volume Oil Total (bbl)	Volume Gas Total (MCF)	Volume Water Total (bbl)	
Before IP					9820.0	5,777.000	19736.0	
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)
8/28/2013		0.000	0.0	0.0		0.0	0.000	0.0
8/29/2013		0.000	0.0	0.0		0.0	0.000	0.0
8/31/2013		25.000	190.0	110.0		429.0	204.000	901.0
9/1/2013		25.000	600.0	130.0		604.0	453.000	1278.0
9/2/2013		25.000	580.0	125.0		458.0	403.000	1360.0
9/3/2013		0.000	440.0	100.0		475.0	214.000	831.0
9/4/2013		0.000	670.0	125.0		467.0	241.000	1270.0
9/5/2013		0.000	560.0	120.0		447.0	336.000	1264.0
9/6/2013		0.000	560.0	120.0		760.0	272.000	817.0
9/7/2013		0.000	580.0	120.0		1035.0	238.000	1205.0
9/8/2013		0.000	580.0	140.0		485.0	265.000	1178.0
9/9/2013		0.000	580.0	145.0		455.0	335.000	1100.0
9/10/2013		0.000	580.0	150.0		447.0	123.000	1088.0
9/11/2013		0.000	580.0	150.0		504.0	347.000	1057.0
9/12/2013		0.000	320.0	100.0		521.0	390.000	1059.0

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

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)
9/13/2013		0.000	320.0	140.0		493.0	385.000	1054.0
9/14/2013		0.000	310.0	100.0		508.0	428.000	1067.0
9/15/2013		0.000	300.0	95.0		566.0	423.000	1103.0
9/16/2013		0.000	300.0	110.0		537.0	410.000	1097.0
9/17/2013		0.000	300.0	125.0		629.0	310.000	1007.0
Description Completion IP						Volume Oil Total (bbl) 714.0	Volume Gas Total (MCF) 348.000	Volume Water Total (bbl) 1044.0
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)
9/18/2013		0.000	380.0	150.0		714.0	348.000	1044.0
Description After IP						Volume Oil Total (bbl) 16977.0	Volume Gas Total (MCF) 17,272.570	Volume Water Total (bbl) 27010.6
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)
9/19/2013		0.000	300.0	125.0		508.0	488.000	726.0
9/20/2013		0.000	300.0	150.0		546.0	400.000	942.0
9/21/2013		0.000	300.0	150.0		506.0	358.000	951.0
9/22/2013		0.000	300.0	150.0		553.0	599.000	882.0
9/23/2013		0.000	300.0	150.0		487.0	659.000	899.0
9/24/2013		0.000	300.0	150.0		490.0	707.000	857.0
9/25/2013		0.000	285.0	135.0		476.0	677.000	839.0
9/26/2013		0.000	280.0	190.0		431.0	539.000	856.0
9/27/2013		0.000	280.0	180.0		436.0	646.000	974.0
9/28/2013		0.000	160.0	280.0		510.0	660.000	853.0
9/29/2013		0.000	260.0	180.0		450.0	566.000	658.0
9/30/2013		0.000	260.0	200.0		417.3	461.330	898.7
10/1/2013		0.000	250.0	320.0		485.5	485.450	833.5
10/2/2013		0.000	305.0	280.0		476.0	588.000	749.0
10/3/2013		0.000	290.0	280.0		429.0	565.000	735.0
10/4/2013		0.000	280.0	280.0		419.0	587.000	696.0
10/5/2013		0.000	280.0	290.0		401.0	561.000	724.0
10/6/2013		0.000	290.0	280.0		399.0	216.000	757.0
10/7/2013		0.000	290.0	280.0		394.0	453.000	700.0
10/8/2013		0.000	260.0	520.0		524.3	406.150	675.7
10/9/2013		0.000	300.0	600.0	SI OFFSET FRAC	0.0	0.000	0.0
10/10/2013		0.000	320.0	680.0	SI OFFSET FRAC	0.0	0.000	0.0
10/11/2013		0.000	350.0	740.0	SI OFFSET FRAC	0.0	0.000	0.0
10/12/2013		0.000	360.0	750.0	SI OFFSET FRAC	0.0	0.000	0.0
10/13/2013		0.000	400.0	760.0	SI OFFSET FRAC	0.0	0.000	0.0
10/14/2013		0.000	430.0	770.0	SI OFFSET FRAC	0.0	0.000	0.0
10/15/2013		0.000	450.0	790.0	SI OFFSET FRAC	0.0	0.000	0.0
10/16/2013		0.000	480.0	1,020.0	SI OFFSET FRAC	0.0	0.000	0.0
10/17/2013		0.000	500.0	1,075.0	SI OFFSET FRAC	0.0	0.000	0.0
10/18/2013		0.000	540.0	1,100.0	SI OFFSET FRAC	0.0	0.000	0.0
10/19/2013		0.000	280.0	95.0		697.0	333.000	454.0
10/20/2013		0.000	250.0	80.0		644.0	78.000	411.0
10/21/2013		0.000	240.0	80.0		647.0	164.000	598.0
10/22/2013		0.000	225.0	120.0		561.9	102.590	621.2
10/23/2013		0.000	220.0	100.0		550.4	126.930	779.7
10/24/2013		0.000	220.0	90.0		513.0	515.000	758.0
10/25/2013		0.000	210.0	110.0		509.0	532.000	743.0
10/26/2013		0.000	210.0	120.0		431.0	689.000	689.0
10/27/2013		0.000	210.0	115.0		403.0	615.000	686.0
10/28/2013		0.000	210.0	110.0		362.0	519.000	613.0
10/29/2013		0.000	200.0	80.0		350.0	525.000	565.0
10/30/2013		0.000	200.0	80.0		366.0	617.000	528.0
10/31/2013		0.000	405.0	90.0		367.1	278.120	416.5

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

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)
11/1/2013		0.000	430.0	110.0		358.0	784.000	883.0
11/2/2013		0.000	415.0	75.0		274.6	264.000	760.3
11/3/2013		0.000	410.0	70.0		308.0	201.000	739.0
11/5/2013		0.000	395.0	80.0		297.0	307.000	560.0

Directional Survey

Date		Description				
5/3/2013		Actual Survey				
Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
5/3/2013	74.00	0.28	283.09	74.00	0.24	MS
5/3/2013	174.00	0.22	221.75	174.00	0.62	MS
5/3/2013	274.00	0.35	124.44	274.00	0.96	MS
5/3/2013	374.00	0.19	58.91	374.00	1.36	MS
5/3/2013	474.00	0.63	337.78	473.99	1.96	MS
5/3/2013	554.00	0.36	26.04	553.99	2.60	MS
5/3/2013	663.00	0.35	293.32	662.99	3.06	Pathfinder
5/3/2013	847.00	0.53	297.10	846.99	4.48	Pathfinder
5/3/2013	1,036.00	0.44	304.30	1,035.98	6.07	Pathfinder
5/3/2013	1,068.00	0.44	338.49	1,067.98	6.31	Pathfinder
5/3/2013	1,257.00	0.53	335.42	1,256.97	7.91	Pathfinder
5/3/2013	1,447.00	1.06	330.93	1,446.95	10.54	Pathfinder
5/3/2013	1,636.00	0.62	1.08	1,635.93	13.22	Pathfinder
5/3/2013	1,826.00	0.97	340.78	1,825.91	15.82	Pathfinder
5/3/2013	2,015.00	0.62	63.57	2,014.90	17.82	Pathfinder
5/3/2013	2,205.00	0.70	74.29	2,204.89	20.00	Pathfinder
5/3/2013	2,394.00	0.79	70.95	2,393.87	22.46	Pathfinder
5/3/2013	2,584.00	0.70	103.12	2,583.86	24.83	Pathfinder
5/3/2013	2,774.00	0.79	99.34	2,773.84	27.30	Pathfinder
5/3/2013	2,963.00	0.18	250.69	2,962.84	28.35	Pathfinder
5/3/2013	3,138.00	0.18	60.06	3,137.83	28.41	Pathfinder
5/3/2013	3,328.00	0.26	90.03	3,327.83	29.11	Pathfinder
5/3/2013	3,517.00	0.26	131.86	3,516.83	29.91	Pathfinder
5/3/2013	3,706.00	0.35	102.60	3,705.83	30.89	Pathfinder
5/3/2013	3,896.00	0.35	84.31	3,895.83	32.03	Pathfinder
5/3/2013	4,085.00	0.53	74.12	4,084.82	33.48	Pathfinder
5/3/2013	4,274.00	0.70	87.83	4,273.81	35.49	Pathfinder
5/3/2013	4,464.00	0.62	93.19	4,463.80	37.68	Pathfinder
5/3/2013	4,653.00	0.35	84.23	4,652.79	39.27	Pathfinder
5/3/2013	4,843.00	0.09	276.00	4,842.79	39.71	Pathfinder
5/3/2013	5,032.00	0.79	243.40	5,031.78	41.14	Pathfinder
5/3/2013	5,222.00	0.35	196.02	5,221.77	42.90	Pathfinder
5/3/2013	5,411.00	0.88	39.05	5,410.77	43.84	Pathfinder
5/3/2013	5,601.00	0.79	67.61	5,600.75	46.53	Pathfinder
5/9/2013	5,790.00	1.06	85.02	5,789.72	49.54	Pathfinder
5/9/2013	5,979.00	1.14	86.86	5,978.69	53.17	Pathfinder
5/9/2013	6,169.00	0.88	78.16	6,168.66	56.51	Pathfinder
5/9/2013	6,358.00	0.79	86.42	6,357.64	59.26	Pathfinder
5/9/2013	6,547.00	0.79	103.74	6,546.62	61.83	Pathfinder
5/9/2013	6,737.00	0.88	85.10	6,736.60	64.57	Pathfinder
5/9/2013	6,926.00	0.97	87.57	6,925.58	67.62	Pathfinder
5/9/2013	7,116.00	1.49	95.74	7,115.53	71.69	Pathfinder
5/9/2013	7,305.00	1.49	103.30	7,304.47	76.59	Pathfinder
5/9/2013	7,455.00	1.32	99.17	7,454.42	80.26	Pathfinder
5/9/2013	7,531.00	1.00	104.30	7,530.41	81.80	Pathfinder
6/6/2013	7,597.00	2.20	109.50	7,596.38	83.64	Multi-Shot
6/6/2013	7,644.00	7.20	137.00	7,643.21	87.41	Multi-Shot
6/6/2013	7,692.00	12.00	144.60	7,690.53	95.40	Multi-Shot

Drilling & Completion Summary - Ascending

Well Name: UNIVERSITY 10-13 7H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
6/6/2013	7,739.00	17.70	150.80	7,735.94	107.42	Multi-Shot
6/6/2013	7,786.00	20.30	154.70	7,780.38	122.72	Multi-Shot
6/6/2013	7,881.00	29.60	162.70	7,866.44	162.66	Multi-Shot
6/6/2013	7,976.00	42.20	165.60	7,943.25	218.24	Multi-Shot
6/6/2013	8,071.00	53.90	169.10	8,006.65	288.75	Multi-Shot
6/6/2013	8,166.00	61.00	170.60	8,057.74	368.78	Multi-Shot
6/6/2013	8,218.00	63.02	170.71	8,082.14	414.69	Multi-Shot
6/6/2013	8,261.00	64.70	170.80	8,101.08	453.29	Multi-Shot
6/6/2013	8,313.00	70.61	172.90	8,120.85	501.36	Multi-Shot
6/6/2013	8,355.00	75.40	174.50	8,133.12	541.52	Multi-Shot
6/6/2013	8,450.00	76.00	174.90	8,156.58	633.57	Multi-Shot
6/6/2013	8,545.00	77.40	179.70	8,178.45	725.99	Multi-Shot
6/6/2013	8,640.00	77.00	179.40	8,199.50	818.63	Multi-Shot
6/6/2013	8,735.00	78.50	179.90	8,219.65	911.46	Multi-Shot
6/6/2013	8,829.00	85.40	183.60	8,232.81	1,004.47	Multi-Shot
6/6/2013	8,924.00	85.70	183.80	8,240.19	1,099.18	Multi-Shot
6/6/2013	9,019.00	90.20	184.20	8,243.58	1,194.09	Multi-Shot
6/6/2013	9,114.00	91.30	188.50	8,242.34	1,289.06	Multi-Shot
6/6/2013	9,208.00	88.40	180.90	8,242.59	1,382.98	Multi-Shot
6/6/2013	9,303.00	89.50	183.00	8,244.33	1,477.96	Multi-Shot
6/6/2013	9,398.00	89.80	187.50	8,244.91	1,572.93	Multi-Shot
6/6/2013	9,493.00	88.00	178.70	8,246.73	1,667.82	Multi-Shot
6/6/2013	9,588.00	87.50	178.80	8,250.46	1,762.74	Multi-Shot
6/6/2013	9,683.00	87.30	179.20	8,254.77	1,857.65	Multi-Shot
6/6/2013	9,777.00	89.10	179.40	8,257.73	1,951.60	Multi-Shot
6/6/2013	9,872.00	89.80	179.80	8,258.64	2,046.59	Multi-Shot
6/6/2013	9,967.00	89.60	179.90	8,259.14	2,141.59	Multi-Shot
6/6/2013	10,062.00	89.70	180.00	8,259.72	2,236.59	Multi-Shot
6/6/2013	10,156.00	89.30	179.80	8,260.54	2,330.58	Multi-Shot
6/6/2013	10,251.00	89.00	179.20	8,261.95	2,425.57	Multi-Shot
6/6/2013	10,346.00	91.60	180.70	8,261.45	2,520.56	Multi-Shot
6/6/2013	10,441.00	90.90	180.00	8,259.38	2,615.54	Multi-Shot
6/6/2013	10,535.00	91.20	180.40	8,257.65	2,709.52	Multi-Shot
6/6/2013	10,630.00	91.00	180.40	8,255.83	2,804.50	Multi-Shot
6/6/2013	10,725.00	90.90	180.00	8,254.25	2,899.49	Multi-Shot
6/6/2013	10,819.00	93.20	181.50	8,250.89	2,993.42	Multi-Shot
6/6/2013	10,914.00	92.50	183.90	8,246.17	3,088.30	Multi-Shot
6/6/2013	11,009.00	91.20	183.70	8,243.10	3,183.24	Multi-Shot
6/6/2013	11,104.00	90.70	183.00	8,241.53	3,278.23	Multi-Shot
6/6/2013	11,199.00	90.90	183.60	8,240.20	3,373.22	Multi-Shot
6/6/2013	11,293.00	90.00	184.80	8,239.46	3,467.22	Multi-Shot
6/6/2013	11,388.00	88.80	182.00	8,240.46	3,562.20	Multi-Shot
6/6/2013	11,483.00	87.00	179.90	8,243.94	3,657.13	Multi-Shot
6/6/2013	11,578.00	88.80	181.50	8,247.42	3,752.06	Multi-Shot
6/6/2013	11,673.00	88.40	181.50	8,249.74	3,847.03	Multi-Shot
6/6/2013	11,768.00	88.40	181.90	8,252.39	3,941.99	Multi-Shot
6/6/2013	11,863.00	87.50	181.90	8,255.79	4,036.93	Multi-Shot
6/6/2013	11,958.00	91.40	183.80	8,256.70	4,131.90	Multi-Shot
6/6/2013	12,053.00	91.50	184.00	8,254.30	4,226.87	Multi-Shot
6/6/2013	12,148.00	91.30	184.50	8,251.98	4,321.84	Multi-Shot
6/6/2013	12,242.00	91.10	184.90	8,250.01	4,415.82	Multi-Shot
6/6/2013	12,337.00	89.80	183.10	8,249.26	4,510.81	Multi-Shot
6/6/2013	12,432.00	89.20	182.20	8,250.09	4,605.81	Multi-Shot
6/6/2013	12,527.00	88.40	182.40	8,252.08	4,700.78	Multi-Shot
6/6/2013	12,622.00	92.00	182.90	8,251.75	4,795.77	Multi-Shot
6/7/2013	12,716.00	91.50	182.90	8,248.88	4,889.72	Multi-Shot

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Well Name: UNIVERSITY 10-13 7H

Date	MD (ftGRD)	Incl (°)	Azm (°)	TVD (ftGRD)	Unwrap Displace (ft)	Survey Company
6/7/2013	12,811.00	91.30	182.80	8,246.56	4,984.70	Multi-Shot
6/7/2013	12,906.00	91.30	184.10	8,244.40	5,079.67	Multi-Shot
6/7/2013	13,001.00	89.90	184.40	8,243.41	5,174.66	Multi-Shot
6/7/2013	13,096.00	89.70	184.40	8,243.74	5,269.66	Multi-Shot
6/7/2013	13,191.00	88.70	184.40	8,245.07	5,364.65	Multi-Shot
6/7/2013	13,285.00	89.20	184.30	8,246.79	5,458.63	Multi-Shot
6/7/2013	13,380.00	87.70	183.70	8,249.36	5,553.60	Multi-Shot
6/7/2013	13,475.00	87.60	184.10	8,253.25	5,648.52	Multi-Shot
6/7/2013	13,569.00	87.30	183.90	8,257.44	5,742.42	Multi-Shot
6/7/2013	13,664.00	86.30	183.70	8,262.74	5,837.27	Multi-Shot
6/7/2013	13,759.00	88.50	182.70	8,267.05	5,932.17	Multi-Shot
6/7/2013	13,854.00	90.20	183.90	8,268.13	6,027.16	Multi-Shot
6/7/2013	13,948.00	91.50	185.60	8,266.73	6,121.14	Multi-Shot
6/7/2013	14,043.00	90.20	185.80	8,265.32	6,216.13	Multi-Shot
6/7/2013	14,138.00	90.10	185.80	8,265.07	6,311.13	Multi-Shot
6/7/2013	14,233.00	86.90	182.00	8,267.56	6,406.07	Multi-Shot
6/7/2013	14,328.00	86.90	181.40	8,272.70	6,500.93	Multi-Shot
6/8/2013	14,422.00	86.80	182.00	8,277.86	6,594.78	Multi-Shot
6/9/2013	14,517.00	85.80	182.20	8,283.99	6,689.59	Multi-Shot
6/9/2013	14,612.00	87.50	180.90	8,289.54	6,784.42	Multi-Shot
6/9/2013	14,707.00	86.90	181.20	8,294.19	6,879.30	Multi-Shot
6/10/2013	14,801.00	88.80	180.00	8,297.71	6,973.23	Multi-Shot
6/11/2013	14,897.00	89.00	180.40	8,299.56	7,069.21	Multi-Shot
6/11/2013	14,991.00	89.20	180.70	8,301.03	7,163.20	Multi-Shot
6/11/2013	15,086.00	88.90	180.50	8,302.61	7,258.19	Multi-Shot
6/11/2013	15,181.00	88.70	180.10	8,304.60	7,353.17	Multi-Shot
6/11/2013	15,276.00	90.90	179.70	8,304.93	7,448.16	Multi-Shot
6/12/2013	15,371.00	90.60	179.20	8,303.68	7,543.15	Multi-Shot
6/12/2013	15,465.00	91.10	179.00	8,302.29	7,637.14	Multi-Shot
6/12/2013	15,560.00	89.50	177.10	8,301.79	7,732.13	Multi-Shot
6/12/2013	15,654.00	90.40	176.40	8,301.87	7,826.13	Multi-Shot
6/12/2013	15,749.00	90.20	175.60	8,301.38	7,921.13	Multi-Shot
6/12/2013	15,844.00	91.30	177.50	8,300.13	8,016.12	Multi-Shot
6/12/2013	15,938.00	91.70	179.30	8,297.67	8,110.08	Multi-Shot
6/12/2013	16,033.00	91.60	179.30	8,294.94	8,205.04	Multi-Shot
6/12/2013	16,128.00	91.00	178.60	8,292.78	8,300.01	Multi-Shot
6/12/2013	16,223.00	91.80	178.60	8,290.46	8,394.98	Multi-Shot
6/12/2013	16,293.00	91.80	178.90	8,288.26	8,464.95	Multi-Shot
6/12/2013	16,345.00	91.80	178.90	8,286.63	8,516.92	Multi-Shot