

FORGE Energy
UL 10 Trinity 2H
API Number: 42-003-46877

08/21/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 CLEARED FOR CONSTRUCTION AND PERMITTING

DIRECTIONS: From 181&115, go East towards Andrews for 2.2 miles, turn South through cattle guard, go for 1.6 miles, turn East, go 0.08 miles, turn South, go 1.2 miles, East 0.7 miles, South 1.8 miles to location.

12/03/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction
Clear road and pad

12/04/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction
Road and pad are cleared, and leveled, Cattle guard installed

12/05/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction
Road is complete, pits 60% complete

12/09/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction
CONSTRUCTION ON PAD, ROAD, AND PITS ARE COMPLETE

12/10/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Install 80'X16" conductor, 70'X14" MH, line pits, lay poly pipe, and install landing ring

12/21/2014

Rig Name: H&P 461

Depth = 0.0 Progress = 0.0

23:50 RIG DOWN BACK YARD

12/22/2014

Rig Name: H&P 461

Depth = 0.0 Progress = 0.0

- 06:00 CONTINUE T/RIG DOWN & MOVE RIG T/NEW LOCATION; 10 TRUCKS, 2 TAMDAM TRUCKS; 2 POLE TRUCKS; 2 FORKLIFTS; R/D & MOVE GENERATOR PACKAGE; SET OUT FRAC TANKS; R/D FLARE LINE; R/D & MOVE COMPANYMAN'S TRAILER HOUSE'S & R/U SAME; SET IN GENERATOR PACKAGE; MOVE MMC HOUSE; & VFD HOUSE; SET IN MMC & VFD ON NEW LOC.; LOWER TOP DOG HOUSE; R/D & LOAD OUT VEE DOOR & AUTO CATWALK; R/D SHAKER SLIDES; R/D & REMOVE FLOW LINE FROM SHAKERS;
- 16:00 UNPIN TOP DOG HOUSE FROM BOOMER & LOAD OUT SAME; LOAD OUT & SET MUD TANKS ON NEW LOCATION; LOWER GASBUSTER & LOAD OUT SAME; SET IN ON NEW LOCATION; BLEED MRC'S; PIN T/MAST; LOWER MAST T/TRUCK @ 17:30 HRS; UNPIN MAST F/RIG FLOOR LOWER TO TRUCK DOLLY;
- 18:00 UNPIN BLOCKS F/TOP DRIVE; UNPIN MRC'S & ROLL UP LINES; START DRESSING UP MAST;
- 19:00 WAIT ON DAYLIGHT;

12/23/2014

Rig Name: H&P 461

Depth = 0.0 Progress = 0.0

- 06:00 WAIT ON DAYLIGHT;
- 07:00 FINISH DRESSING OUT MAST; UNPIN MAST; LOWER SUBSTRUCTURE; REMOVE CENTER STEEL; LOAD OUT SHAKER SKID; SUB HALF'S; CENTER STEEL; FRAC TANKS; KOOMEY SKID; BUCKET TRUCK ON NEW LOCATION ROAD W/POWER LINE'S RAISED;
- 11:00 LOADED OUT CAMP TRAILERS; MAST MOVED TO NEW LOCATION; LOADED OUT MATTING BOARDS; SET IN SHAKER TANK & RAISE SAME; SET MATTING BOARDS; SUB HALF'S; OFF LOAD SURFACE BIT & SURFACE DOWNHOLE SHOCK SUBS,STABILIZERS; CALLED TRRC F/NEW JOB #21546 OPERATOR ROSA; 100% OFF OLD LOCATION {FISHER A8-6H} RELEASE LOCATION T/PRODUCTION 12:00 TOMORROW;
- 15:00 SET CENTER STEEL; SET DRAWWORKS; MUD BOAT; SPOTTED LOWER SECTION OF MAST; RAISE SUB STRUCTURE @ 15:40 HRS; SETTING IN MAIN CAMP; SET IN BASE F/BOP BOOMER; PIN DOG HOUSE SKID T/BOOMER BASE & T/SUBSTURCTURE;HANG FLOW LINE T/MUD TANK; SET IN CHOKE SKID; RAISE MAST BOARDS & RUN HOIST CABLES;
- 18:00 RAISE BOOM POLE'S; RAISE GASBUSTER; RAISE TOP DOG HOUSE;
- 19:00 WAIT ON DAYLIGHT

12/24/2014

Rig Name: H&P 461

Depth = 0.0 Progress = 0.0

- 06:00 WAIT ON DAYLIGHT

07:00 STRING UP BLOCKS; TRUCKS ON LOCATION 07:30; FINISH DRESSING OUT MAST; R/U ELECTRICAL LINE'S IN BACK YARD; MAST INSPECTION; PIN BLOCK & TOP DRIVE; SET IN CATWALK & VEE DOOR; SET IN KOOMEY SKID; SPOTTED BOP TRAVELER SKID; SPOTTED FRAC TANKS; BAKER DELIVERED PRODUCTION BITS ON LOCATION;

12:00 PIN MAST T/RIG FLOOR; & RAISED MAST @ 12:30; DRESSING OUT RIG FLOOR & DRIVING IN GROUND RODS; RELEASE TRUCKS @ 13:00 HRS; OFF SURFACE CASING; {DRM}; OFF LOAD FLOAT EQUIPMENT; {BLACKHAWK}; CLEANING & DRIFTING SURFACE CASING; {KELLYS}; CHECKING ITEMS LISTED ON PRE-SPUD; OFF LOAD WELLHEAD EQUIPMENT; {CACTUS}; OILFIELD MUD & CHEMICAL SET TRAILER F/CORROSION INHIBITOR;

16:00 CONTINUE TO R/U ELECTRICAL LINE'S T/RIG FLOOR & DEFUB ARM; DRESS SHALE SHAKERS W/SCREENS; DRIVE GROUND RODS;

18:00 R/U BACK YARD; START MOTORS; CUT 110' DRILLING LINE; CONTINUE T/RIG UP BACK YARD & STAND PIPE ON MUD PUMPS; R/U ELECTRICAL LINE'S TO AUTO CATWALK & PLACE TRAILERS ON RIG POWER;

00:00 STRING UP DRILLING LINE ONTO DRUM {DRAWWORKS}; R/U WATER LINE'S T/ALL TANKS; R/U LINE'S ON GAS BUSTER; UNDOCK TOP DRIVE & CALIBRATE BLOCK HEIGHT; CHECK C.O.M.; RAISE BOP T/PREP F/SURFACE TEST; R/U BOP HANDLER; INSTALL CLAMP F/CONDUCTOR PIPE;

Vis (s/qt): 28, Dens (lb/gal): 8.38, pH: 7.8

12/25/2014

Rig Name: H&P 461

Depth = 950.0 Progress = 845.0

06:00 CONTINUE RIGGING UP CONDUCTOR; TURNBUCKLES; FLOWLINE; FILL UP LINE; MIX SWEEP MATERIAL IN SLUG TANK; STRAP BHA; RIG PLACED ON DAYRATE @ 06:00 HRS.; 12 /24/2014; FILL FRAC TANK #2 WITH 9.90 PPG BRINE;

10:00 TEST MUD PUMPS & MUD LINE'S T/TOP DRIVE IBOP VALVE; T/1500 PSI; {OK}; FINISH RIGGING UP PITS; PRESPUD CHECKLIST COMPLETED & PLACED IN DROP BOX; R/U KOOMEY LINE'S T/TEST BOP ON STUMP; FINISH STRAPPING BHA; INPETRO LOADED MWD TOOL INTO 8" D.C.;

16:00 CHANGE OUT SAVER SUB & CORROSION RING; CALIPER BHA; FRESH WATER TANKS FULL; TIE WIRE SAVER SUB; PJSM P/U & M/U 8" BHA;

18:00 INSTALL MOUSE HOLE SHUCK; P/U & M/U 8" BHA; P/U & M/U SURFACE BIT 12.25; DB PDC BIT; SN#D3967; TYPE D516SX; 8-10 NOZZLES; F/SURFACE - T/0047';

20:00 WAIT ON IBS; CLEAN RIG FLOOR; CLEAN ROLLERS ON ST-80; RECHECK THREADS ON 8" DRILL COLLARS FOUND RIGHT THREADS;

22:00 P/U & M/U 8" D.C. & STABILIZERS; CROSSOVER & KELLY JOINT; F/0047 - T/0105'; BREAK CIRCULATION; TAKE SURVEY @ 100' 0.40 DEGREES;

00:00 SPUD UL 10 TRINITY 2H WELL @ 00:00 HRS; 12/25/2014; R/DRLG F/0105' - T/0260' = 155' @ 77.5 FPH; GPM 550; RPM 80; WOB 10-25K; SPM 146-172; PP 800-1300 PSI; P/U WT. 74K; S/O WT. 72K; R/T WT. 69K; OFF BTM TQ. 1000; ON BT TQ. 5500;

02:00 R/DRLG F/0260' - T/0950' = 690' @ 172' FPH; GPM 650-800; RPM 80-120; WOB 30-40K; SPM 172-210; PP 2182 PSI; P/U WT. 93K; S/O WT. 88K; R/T WT. 92K; OFF BTM TQ. 1500; ON BT TQ. 13,000;

Vis (s/qt): 28, Dens (lb/gal): 8.38, pH: 7.8

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
100.0	100.00	0.40	77.52	0.08	0.40	0.08	0.34
130.0	130.00	0.79	209.62	-0.08	3.66	-0.08	0.34
163.0	163.00	0.62	14.11	-0.10	4.23	-0.10	0.27
343.0	342.99	0.48	355.74	1.60	0.12	1.60	0.45
429.0	428.99	0.40	352.70	2.26	0.10	2.26	0.39
490.0	489.99	0.40	35.42	2.64	0.48	2.64	0.49
580.0	579.99	0.31	7.91	3.14	0.21	3.14	0.71
672.0	671.99	0.40	20.13	3.69	0.13	3.69	0.85
855.0	854.99	0.40	62.23	4.59	0.16	4.59	1.64
950.0	949.99	0.09	91.54	4.74	0.34	4.74	2.01

12/26/2014

Rig Name: H&P 461

Depth = 1,737.0 Progress = 787.0

06:00 R/DRLG F/0950' - T/1737' = 787' @ 196' FPH; GPM 800; RPM 150; WOB 18K; SPM 208; PP 2400 PSI; P/U WT. 110K; S/O WT. 106K; R/T WT. 108K; OFF BTM TQ. 1K; ON BT TQ. 16K; MIX 50 SKS STARCH, CLOSE LOOP STEEL PITS;

10:00 CIRCULATE & CONDITION HOLE CLEAN; PUMP 2X40 BBL SWEEPS
MONITOR SHAKERS F/CUTTING'S;

11:30 P.O.O.H. F/1737' - T/0399'; RACKING BACK IN MAST; CALLED
HALLIBURTON PLACED JOB ON BOARD;

14:00 REIVIEW JSA L/D BHA; EAT CHRISTMAS LUNCH;

15:00 P.O.O.H. F/0399' - T/SURFACE L/D 6" & 8" BHA & EXTREME TOOL; BREAK
BIT GRADED 1-1,1-1,1-1,1-1,; L&M ON LOCATION WASHING THREADS ON
DRILL COLLARS; HALLIBURTON SPOTTED TIER BIN TRAILER & OFF
LOADED CEMENT; SURFACE BIT PIC'S PLACED IN DROP BOX UNDER
PHOTO FOLDER

18:00 REVIEW JSA ON L/D BHA; L/D SHOCK SUB, EXTREME TOOL, CROSS
OVER, STAB; INPETRO TOOL HAND DOWNLOADED EXTREME TOOL;
INPETRO R/D SURFACE GEAR;

19:00 CLEAN & ORGANIZE RIG FLOOR; LOAD CRT ON CATWALK & PICK UP
SAME; R/U CRT; FUNCTION TEST CRT; CHECK ELEVATOR ID & OD CSG
COLLAR; HOLD PJSM W/RIG CREW & L&M ROUSTABOUT HANDS, H&P
CRT TOOL HANDS; SPOT PORTABLE LIGHT TOUR FOR CASING ROLLERS
{ROUSTABOUTS};

21:00 P/U & M/U SHOE TRACK TEST FLOATS {OK}; RUN 40 JTS, 9 5/8 CSG. 36.0

PPF, LTC; SHOE DEPTH 1726'; FLOAT COLLAR DEPTH 1681'; FILL CSG. FLY;
CIRCULATE CSG. EVERY 20 JTS.; HALLIBURTON ON LOCATION W/PUMP
TRUCK; CACTUS WELLHEAD SERVICE ON LOCATION T/LAND CSG.
W/LANDING JT. @ 01:30 HRS;

- 01:30 CIRCULATE & CONDITION HOLE & R/U HALLIBURTON LINE'S
- 02:30 HOLD PJSM W/HALLIBURTON & RIG CREW; R/U HALLIBURTON T/CRT
TOOL; CLOSE IBOP & 4" ON STAND PIPE;
- 03:00 TEST CEMENT LINES 2000 PSI. TEST GOOD. PUMP AS FOLLOWS: 20 BBL
FW; 20 BBLS RED DYE GEL SPACER; LEAD: 600 SKS, 12.9 PPG, 1.854 FT3,
9.75 GAL/SK. TAIL: 130 SKS, 14.8 PPG, 1.351 FT3, 6.19 GAL/SK. RELEASE
TOOL AND DROP PLUG, DISPLACE W/130 BBLS OF FRESH WATER. 100%
RETURNS THROUGHOUT JOB, 170 SKS = 56 BBLS CEMENT TO RESERVE.
BUMP PLUG AT 04:20 HRS; W/670 PSI. PRESSURE UP TO 1130. FLOATS
HELD. 1 BBL BACK; R/D CEMENT LINES; FLUSH CONDUCTOR &
FLOWLINE; BATTLE NIPPLE UP SERVICE ON LOCATION;
- 05:00 R/D CONDUCTOR; TURNBUCKLES; FLOWLINE; REMOVE LANDING JT.;
INSTALL WELLHEAD FLANGE;

Vis (s/qt): 34, Dens (lb/gal): 9.10, pH: 7.8

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
1,044.0	1,043.99	0.22	163.12	4.57	0.22	4.57	2.14
1,233.0	1,232.98	0.70	192.04	3.09	0.27	3.09	2.00
1,422.0	1,421.95	1.19	197.93	0.09	0.26	0.09	1.15
1,517.0	1,516.93	1.41	209.62	-1.86	0.36	-1.86	0.27
1,611.0	1,610.90	1.41	223.24	-3.71	0.36	-3.71	-1.09
1,706.0	1,705.86	1.89	232.82	-5.51	0.58	-5.51	-3.14

12/27/2014

Rig Name: H&P 461

Depth = 2,126.0 Progress = 389.0

- 06:00 FINISH R/D FLOWLINE & TURNBUCKLES; L/D CONDUCTOR; R/U FLARE
LINE'S; REMOVE BOP F/TRAVELER; SET SPACER SPOOL & DSA; SET BOP
& TORQUE UP BOLTS; R/U CHOKE LINE & TORQUE; L&M ROUSTABOUTS
ON LOCATION RIGGING UP FLARE LINE; EXPRO RIGGED UP POWER
CHOKE & CHOKE PANEL ON DRILL FLOOR; QUALITY LOGGING NO
LOCATION RIGGING UP MUD LOGGING EQUIPMENT; BAKER
DIRECTIONAL DRILLERS ON LOCATION;
- 12:00 START TESTING BLIND RAMS; DSA & SPACER SPOOL BREAKS; CHOKE
LINE; TOP DRIVE IBOP VALVE & MUD LINES BACK T/MUD PUMPS; TIW &
DART VALVE'S; 250 PSI LOW F/5 MIN.; 3000 PSI HIGH F/10 MIN.;
- 12:30 OFF LOAD DIRECTIONAL DOWNHOLE & SURFACE EQUIPMENT; R/D CRT
& PLACE ON SHIPPING BRACKET; STRAP DIRECTIONAL BHA;
- 14:00 FINISH TESTING TOP DRIVE IBOP; MUD LINES; TIW & DART VALVE T/250
PSI LOW; & 3000 PSI HIGH;
- 15:00 TEST CASING T/1500 PSI F/30 MIN.; R/U SHAKER SLIDE'S T/OUTER
RESERVE PIT; {BRINE};

15:30 INSTALL WEAR BUSHING

16:00 INSTALL DRESSER SLEEVE ON FLOWLINE; INSTALL TURNBUCKLES; INSTALL MOUSE HOLE SHUCK; LOAD OUT H&P CRT & EQUIPMENT BACK HAUL T/H&P YARD; R/U FILL UP LINE; DISCONNECT & RETRACT BOOMER;

17:30 P/U & R/U DIRECTIONAL EQUIPMENT; BPA & HOOSE'S; MUD LINE SENSOR;

19:00 P/U & M/U DIRECTIONAL BHA & PROD. BIT; 8.750 BHI PDC; AT606X 6"GAUGE & CUT CONTROL; SN# 7155632; TFA 0.902; 6-14 NOZZLES; T.I.H. W/DIRECTIONAL TOOLS TEST MWD {OK}; CONTINUE T.I.H. F/SURFACE - T/1182';

00:00 INSTALL ROTATING HEAD RUBBER;

00:30 T.I.H. W/SINGLES F/1182' - T/1638' TAG CEMENT; ACC. PSI 2880, ANN. PSI 1700, MAN. PSI 1400;

01:30 R/DRILL SHOE TRACK F/1638' - T/1737' = 101' @ 101' FPH; GPM 361', WOB 10, RPM:30, MRPG 57, SPM:95; DIFF PSI 219; PP:722, P/U:82, S/O:82, R/T:82, ON BTM TQ:3650K; OFF BTM TQ:1K;

02:30 R/DRILL VERT. HOLE SECTION; F/1737' - T/2126' = 389' @ 111' FPH; GPM 361', WOB 25, RPM:100, MRPG 92, SPM:156; DIFF PSI 450; PP:1791, P/U:84, S/O:81, R/T:83, ON BTM TQ:7000K; OFF BTM TQ:1K;

Vis (s/qt): 28, Dens (lb/gal): 9.85, pH: 8.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
1,818.0	1,817.80	0.75	248.61	-5.25	1.17	-6.90	-6.48
2,007.0	2,006.79	0.32	83.54	-6.61	0.56	-7.29	-7.11

12/28/2014

Rig Name: H&P 461

Depth = 4,212.0 Progress = 2086.0

06:00 R/DRILL VERT. HOLE SEC. F/2126' - T/2667' = 541; @ 135 FPH; GPM 414', WOB 25, RPM:90, MRPG 66, SPM:108; DIFF PSI 300; PP:1000, P/U:92, S/O:88, R/T:90, ON BTM TQ:8K; OFF BTM TQ:1K; ACC. 2830 PSI; MANIFOLD 1380 PSI; ANNULAR 1660 PSI; {WORK ON #2 MUD PUMP};

10:00 R/DRILL VERT. HOLE SECTION; F/2667' - T/3160' = 493; @ 123 FPH; GPM 591', WOB 25, RPM:101, MRPG 94, SPM:154; DIFF PSI 350; PP:1850, P/U:102, S/O:100, R/T:101, ON BTM TQ:9K; OFF BTM TQ:1K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS);

14:00 R/DRILL VERT. HOLE SECTION; F/3160' - T/3540' = 380; @ 126 FPH; GPM 592', WOB:18, RPM:100, MRPG 94, SPM:154; DIFF PSI 535; PP:2095, P/U:107, S/O:105, R/T:106, ON BTM TQ:9K; OFF BTM TQ:2K;

17:00 SERVICE RIG; SPR @ #1 PUMP 30-240, 40-315, 50-380, #2 PUMP 30-230, 40-300, 50-370

17:30 R/DRILL VERT. HOLE SECTION; F/3540' - T/3626' = 86; @ 172 FPH; GPM 599', WOB:32, RPM:100, MRPG 95, SPM:156; DIFF PSI 400; PP:1750, P/U:108, S/O:106, R/T:107, ON BTM TQ:10K; OFF BTM TQ:2K;

- 18:00 R/DRILL VERT. HOLE SEC. F/3626' - T/3781' = 155'; @ 103' FPH; GPM 418', WOB 25, RPM:100, MRPG 66, SPM:108; DIFF PSI 265; PP:1325, P/U:110, S/O:108, R/T:109, ON BTM TQ:9K; OFF BTM TQ:1K; ACC. 2920 PSI; MANIFOLD 1420 PSI; ANNULAR 1810 PSI; PUMP 40 BBL HIGH VIS SWEEP @ 3740';
- 19:30 R/DRILL UPPER CURVE SECTION F/3781' - T/3895' = 114; @ 46 FPH; GPM 570', WOB 30, RPM:80, MRPG 91, SPM:150; DIFF PSI 250; PP:1700, P/U:115, S/O:106, R/T:109, ON BTM TQ:6K; OFF BTM TQ:1K;
- 22:00 R/DRILL UPPER CURVE SECTION F/3895' - T/4065' = 170; @ 42 FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 250; PP:1700, P/U:115, S/O:106, R/T:109, ON BTM TQ:6K; OFF BTM TQ:1K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS);
- 02:00 R/DRILL UPPER CURVE SECTION F/4065' - T/4212' = 147; @ 37 FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 250; PP:1700, P/U:120, S/O:113, R/T:115, ON BTM TQ:7K; OFF BTM TQ:2K; SPR @ #1 PUMP 30-240, 40-320, 50-400, #2 PUMP 30-260, 40-340, 50-420;

Vis (s/qt): 28, Dens (lb/gal): 10.10, pH: 8.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
2,195.0	2,194.78	0.53	37.23	-5.96	0.21	-6.54	-6.06
2,384.0	2,383.74	1.60	51.55	-3.87	0.58	-4.20	-3.46
2,573.0	2,572.65	1.85	69.82	-1.64	0.32	-1.51	1.47
2,762.0	2,761.58	1.12	133.71	-2.25	0.89	-1.73	5.67
2,950.0	2,949.56	0.53	207.33	-4.36	0.58	-3.77	6.60
3,139.0	3,138.55	0.26	189.65	-5.51	0.16	-4.97	6.13
3,328.0	3,327.55	0.10	165.84	-6.09	0.09	-5.55	6.10
3,516.0	3,515.55	0.25	167.08	-6.65	0.08	-6.11	6.23
3,704.0	3,703.55	0.49	106.35	-7.36	0.23	-6.74	7.09
3,799.0	3,798.54	0.83	336.02	-6.86	1.27	-6.23	7.20
3,830.0	3,829.51	3.25	337.68	-5.81	7.81	-5.21	6.77
3,862.0	3,861.39	6.06	343.05	-3.29	8.88	-2.76	5.93
3,893.0	3,892.11	8.99	345.51	0.70	9.51	1.15	4.85
3,925.0	3,923.59	11.58	347.11	6.35	8.14	6.70	3.51
3,956.0	3,953.77	14.60	347.18	13.31	9.74	13.54	1.95
3,988.0	3,984.49	17.74	346.34	22.13	9.84	22.21	-0.10
4,019.0	4,013.90	20.24	346.37	31.77	8.05	32.05	-2.46
4,051.0	4,043.66	22.86	345.76	43.76	8.22	43.45	-5.29
4,082.0	4,071.85	26.20	345.97	56.46	10.78	55.93	-8.43
4,113.0	4,099.23	29.66	345.65	70.80	11.17	70.00	-11.99
4,145.0	4,126.60	32.71	344.99	87.14	9.59	86.02	-16.19
4,176.0	4,152.18	36.04	344.72	104.38	10.75	102.91	-20.76

12/29/2014

Rig Name: H&P 461

Depth = 5,239.0 Progress = 1027.0

- 06:00 R/DRILL UPPER CURVE SECTION F/4212' - T/4265' = 53' @ 53' FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 250; PP:1700, P/U:120, S/O:113,

R/T:115, ON BTM TQ:7K; OFF BTM TQ:2K; ACC. 2860 PSI; MANIFOLD 1580 PSI; ANNULAR 1790 PSI;

07:00 RECYCLE PUMPS F/SURVEY;

07:30 R/DRILL UPPER CURVE SECTION; F/4265' - T/4359' = 94; @ 47 FPH; GPM 575', WOB 30, RPM:80, MRPG 92, SPM:150; DIFF PSI 75; PP:1750, P/U:120, S/O:112, R/T:115, ON BTM TQ:5K; OFF BTM TQ:2K;

09:30 SEND DOWNLINKS & TAKE SURVEY;

10:00 R/DRILL UPPER CURVE SECTION; F/4359' - T/4374' = 15' @ 30' FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 200; PP:1750, P/U:127, S/O:109, R/T:117, ON BTM TQ:9K; OFF BTM TQ:2K;

10:30 R/DRILL TANGENT SECTION; F/4374' - T/4553' = 179' @ 44' FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 200; PP:1750, P/U:127, S/O:109, R/T:117, ON BTM TQ:5K; OFF BTM TQ:2K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS);

14:30 R/DRILL TANGENT SECTION; F/4553' - T/4689' = 136' @ 39' FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 200; PP:1750, P/U:127, S/O:109, R/T:117, ON BTM TQ:5K; OFF BTM TQ:2K SPR @ #1 PUMP 30-230, 40-310, 50-400, #2 PUMP 30-240, 40-320, 50-410;

18:00 R/DRILL TANGENT SECTION; F/4689' - T/4860' = 171' @ 43' FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 200; PP:1750, P/U:127, S/O:109, R/T:117, ON BTM TQ:5K; OFF BTM TQ:2K; ACC. 3040 PSI; MANIFOLD 1590 PSI; ANNULAR 1660 PSI; START DRILLING LOWER CURVE SECTION @ 4711'

22:00 R/DRILL LOWER CURVE SECTION; F/4860' - T/5027' = 167' @ 42' FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 190; PP:1750, P/U:138, S/O:112, R/T:117, ON BTM TQ:9K; OFF BTM TQ:2K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS);

02:00 R/DRILL LOWER CURVE SECTION; F/5027' - T/5239' = 212' @ 53' FPH; GPM 575', WOB:30, RPM:80, MRPG 92, SPM:150; DIFF PSI 190; PP:1750, P/U:130, S/O:112, R/T:120, ON BTM TQ:11K; OFF BTM TQ:2K; SPR @ #1 PUMP 30-260, 40-340, 50-350, #2 PUMP 30-260, 40-330, 50-360; HOLD BOP DRILL & H2S DRILL; ALL MEN @ STATIONS ON BOP DRILL IN 1.25 MIN; ALL PERSONAL ON LOCATION @ MUSTER AREA & ACCOUNTED FOR IN 2.5 MIN.

Vis (s/qt): 28, Dens (lb/gal): 10.20, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,207.0	4,176.69	39.39	344.30	123.03	10.84	121.18	-25.83
4,239.0	4,200.74	43.08	344.07	143.76	11.54	141.46	-31.58
4,270.0	4,222.67	46.80	344.67	165.28	12.08	162.54	-37.47
4,302.0	4,243.99	49.62	345.25	188.79	8.92	185.58	-43.66
4,333.0	4,263.50	52.36	345.49	212.56	8.86	208.88	-49.74
4,365.0	4,282.18	56.15	345.14	238.16	11.88	233.99	-56.32
4,396.0	4,298.95	58.34	344.88	263.85	7.10	259.17	-63.06
4,428.0	4,315.76	58.30	344.93	290.68	0.18	285.46	-70.15
4,459.0	4,332.04	58.33	344.84	316.67	0.27	310.93	-77.03

4,491.0	4,348.86	58.25	345.01	343.50	0.52	337.22	-84.11
4,522.0	4,365.15	58.34	344.85	369.49	0.53	362.69	-90.97
4,553.0	4,381.45	58.22	344.97	395.47	0.51	388.15	-97.83
4,585.0	4,398.27	58.37	344.78	422.29	0.69	414.43	-104.93
4,616.0	4,414.56	58.25	344.80	448.27	0.39	439.88	-111.85
4,648.0	4,431.39	58.28	344.57	475.07	0.62	466.13	-119.04
4,680.0	4,448.20	58.34	344.55	501.87	0.19	492.38	-126.29
4,711.0	4,464.44	58.49	344.39	527.85	0.65	517.82	-133.36
4,742.0	4,480.08	60.91	344.71	554.19	7.86	543.61	-140.49
4,774.0	4,494.79	64.31	344.94	582.16	10.64	571.02	-147.93
4,805.0	4,507.40	67.65	345.00	610.05	10.78	598.36	-155.27
4,837.0	4,518.73	70.85	345.05	639.54	10.00	627.26	-163.00
4,868.0	4,528.06	74.11	345.07	668.67	10.52	655.81	-170.62
4,900.0	4,535.90	77.51	345.32	699.25	10.65	685.79	-178.55
4,931.0	4,541.70	80.90	345.62	729.29	10.98	715.25	-186.19
4,963.0	4,545.83	84.26	345.72	760.61	10.50	745.98	-194.04
4,994.0	4,548.14	87.19	345.44	791.11	9.49	775.91	-201.74
5,026.0	4,549.33	88.55	345.47	822.67	4.25	806.86	-209.77
5,057.0	4,549.75	89.91	345.26	853.25	4.44	836.85	-217.60
5,120.0	4,549.80	90.00	345.35	915.40	0.20	897.79	-233.58

12/30/2014

Rig Name: H&P 461

Depth = 7,266.0 Progress = 2027.0

- 06:00 R/DRILL LATERAL SECTION; F/5239' - T/5334' = 95' @ 95' FPH; GPM 575', WOB 35, RPM:100, MRPG 92, SPM:150; DIFF PSI 190; PP:1750, P/U:127, S/O:109, R/T:117, ON BTM TQ:10K; OFF BTM TQ:4K; ACC. 2970 PSI; MANIFOLD 1460 PSI; ANNULAR 1710 PSI;
- 07:00 R/DRILL LATERAL SECTION; F/5334' - T/5670' = 336' @ 84' FPH; GPM 599', WOB 35, RPM:110, MRPG 95, SPM:156; DIFF PSI 150; PP:1950, P/U:132, S/O:97, R/T:115, ON BTM TQ:12K; OFF BTM TQ:4K;
- 11:00 R/DRILL LATERAL SECTION; F/5670' - T/5899' = 229; @ 65 FPH; GPM 599', WOB:35, RPM:110, MRPG 95, SPM:156; DIFF PSI 300; PP:1950, P/U:139, S/O:96, R/T:115, ON BTM TQ:13K; OFF BTM TQ:5K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS); BOP DRILL SPACE OUT & CLOSE ANNULAR PREVENTER;
- 14:30 R/DRILL LATERAL SECTION; F/5899' - T/6106' = 207; @ 69 FPH; GPM 599', WOB:32, RPM:115, MRPG 95, SPM:156; DIFF PSI 230; PP:1150, P/U:141, S/O:95, R/T:117, ON BTM TQ:12K; OFF BTM TQ:4K; CHANGE OUT SWAB #2 MUD PUMP; PUMP 25 BBL SWEEP;
- 17:30 R/DRILL LATERAL SECTION; F/6106' - T/6170' = 64; @ 128 FPH; GPM 599', WOB:35, RPM:110, MRPG 95, SPM:156; DIFF PSI 160; PP:1950, P/U:141, S/O:95, R/T:115, ON BTM TQ:12K; OFF BTM TQ:4K; SPR @ 6106 #1 PUMP 30-280, 40-390, 50-450, #2 PUMP 30-260, 40-380, 50-430
- 18:00 R/DRILL LATERAL SECTION; F/6170' - T/6495' = 325' @ 82 FPH; GPM 599', WOB 37, RPM:100, MRPG 95, SPM:156; DIFF PSI 150; PP:2050, P/U:132, S/O:97,

R/T:112, ON BTM TQ:12K; OFF BTM TQ:4K; ACC. 2820 PSI; MANIFOLD 1540 PSI; ANNULAR 1560 PSI;

- 22:00 R/DRILL LATERAL SECTION; F/6495' - T/6852' = 357' @ 90' FPH; GPM 599', WOB 37, RPM:100, MRPG 95, SPM:156; DIFF PSI 250; PP:2050, P/U:140, S/O:99, R/T:112, ON BTM TQ:10K; OFF BTM TQ:4K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS);
- 02:00 R/DRILL LATERAL SECTION; F/6852' - T/7266' = 414' @ 103' FPH; GPM 599', WOB:35, RPM:100, MRPG 95, SPM:156; DIFF PSI 250; PP:2350, P/U:144, S/O:96, R/T:115, ON BTM TQ:13K; OFF BTM TQ:4K; SPR @ #1 PUMP 30-320, 40-410, 50-410, #2 PUMP 30-310, 40-400, 50-420

Vis (s/qt): 28, Dens (lb/gal): 10.10, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
5,214.0	4,549.75	90.06	345.13	1,008.10	0.24	988.69	-257.53
5,309.0	4,549.65	90.06	347.44	1,102.05	2.43	1,080.96	-280.05
5,403.0	4,549.48	90.15	346.38	1,195.17	1.13	1,172.51	-301.34
5,497.0	4,549.15	90.25	346.53	1,288.18	0.19	1,263.89	-323.36
5,592.0	4,548.79	90.18	342.53	1,381.61	4.21	1,355.39	-348.69
5,686.0	4,548.52	90.15	343.39	1,473.62	0.92	1,445.26	-376.24
5,781.0	4,548.25	90.18	345.83	1,567.12	2.57	1,536.83	-401.45
5,875.0	4,547.98	90.15	348.29	1,660.25	2.62	1,628.42	-422.50
5,969.0	4,547.58	90.34	349.48	1,753.75	1.28	1,720.65	-440.62
6,064.0	4,546.81	90.59	349.15	1,848.32	0.44	1,814.00	-458.23
6,158.0	4,546.00	90.40	349.92	1,941.92	0.84	1,906.43	-475.30
6,347.0	4,545.09	90.15	345.46	2,129.35	2.36	2,090.94	-515.58
6,441.0	4,544.72	90.30	345.98	2,222.18	0.58	2,182.03	-538.77
6,536.0	4,544.29	90.22	346.99	2,316.18	1.07	2,274.39	-560.97
6,630.0	4,543.99	90.15	348.28	2,409.45	1.37	2,366.20	-581.10
6,725.0	4,543.79	90.09	348.80	2,503.89	0.55	2,459.30	-599.97
6,819.0	4,543.57	90.18	348.66	2,597.36	0.18	2,551.49	-618.34
6,913.0	4,543.22	90.25	349.25	2,690.88	0.63	2,643.75	-636.35
7,007.0	4,542.71	90.37	350.30	2,784.53	1.12	2,736.25	-653.04
7,102.0	4,542.15	90.31	348.62	2,879.11	1.77	2,829.64	-670.42

12/31/2014

Rig Name: H&P 461

Depth = 8,882.0 Progress = 1616.0

- 06:00 R/DRILL LATERAL SECTION; F/7266' - T/7588' = 322' @ 80' FPH; GPM 599', WOB 35, RPM:100, MRPG 95, SPM:156; DIFF PSI 150; PP:2350, P/U:161, S/O:95, R/T:124, ON BTM TQ:14K; OFF BTM TQ:7K; ACC. 2720 PSI; MANIFOLD 1380 PSI; ANNULAR 1640 PSI; WATER LINE FROZE UP HAUL FRESH WATER T/RIG TANK;
- 10:00 R/DRILL LATERAL SECTION; F/7588' - T/7953' = 365' @ 91' FPH; GPM 599', WOB 35, RPM:100, MRPG 95, SPM:156; DIFF PSI 180; PP:2650, P/U:165, S/O:92, R/T:128, ON BTM TQ:17K; OFF BTM TQ:8K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS); DB BITS P/U SURFACE EQUIPMENT;
- 14:00 R/DRILL LATERAL SECTION; F/7953' - T/8045' = 92' @ 92' FPH; GPM 599',

WOB:35, RPM:100, MRPG 95, SPM:156; DIFF PSI 280; PP:2650, P/U:165, S/O:92, R/T:128, ON BTM TQ:17K; OFF BTM TQ:8K; SPR @ #1 PUMP 30-340, 40-460, 50-550, #2 PUMP 30-320, 40-440, 50-520

- 15:00 SERVICE RIG; TOP DRIVE & CHECK FLUIDS; OFF LOAD 5.5 CSG. {ONLY HALF 5.5 CASING STRING ON LOCATION} {DRM}; RECEIVE OTHER HALF CASING TOMORROW; {TTL FOOTAGE 4806' OFF LOADED}
- 15:30 R/DRILL LATERAL SECTION; F/8045' - T/8320' = 275'; @ 92 FPH; 600GPM , WOB 28, RPM:100, DIFF PSI 200; PP:3000, P/U:185, S/O:108, R/T:131, ON BTM TQ:17K; OFF BTM TQ:8K;
- 18:00 Pick up and slack off weight seem to be trending higher than expected on last several stands. Call management and discuss clean up cycle. Perform clean up cycle working pipe at 300 fph, 450 gpm, 30 - 80 rpm. Final PU:xxx, SO:xxx, rot:xxxx, torque:
- 21:00 R/DRILL LATERAL SECTION; F/8320' - T/8335' = 15'; @ 15 FPH; 600GPM , WOB 28, RPM:90, DIFF PSI 300; PP:3000, P/U:165, S/O:108, R/T:140, ON BTM TQ:16K; OFF BTM TQ:7K;
- 22:00 R/DRILL F/8335' - T/8571' = 236; @ 60 FPH; GPM 599', WOB 35, RPM:90, MRPG 95, SPM:156; DIFF PSI 280; PP:2850, P/U:168, S/O:107, R/T:143, ON BTM TQ:17K; OFF BTM TQ:5K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS);
- 02:00 R/DRILL LATERAL SECTION; F/8571' - T/8882' = 311; @ 78 FPH; GPM 599', WOB:37, RPM:100, MRPG 95, SPM:156; DIFF PSI 280; PP:2850, P/U:169, S/O:110, R/T:143, ON BTM TQ:6K; OFF BTM TQ:17K; SPR @ #1 PUMP 30-360, 40-480, 50-580, #2 PUMP 30-340, 40-480, 50-590

Vis (s/qt): 28, Dens (lb/gal): 10.00, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,196.0	4,541.57	90.40	348.42	2,972.56	0.23	2,921.76	-689.13
7,288.0	4,540.90	90.43	348.72	3,064.02	0.33	3,011.93	-707.36
7,380.0	4,540.26	90.37	348.71	3,155.51	0.07	3,102.15	-725.36
7,472.0	4,539.71	90.31	347.80	3,246.91	0.99	3,192.22	-744.09
7,563.0	4,539.19	90.34	347.61	3,337.23	0.21	3,281.13	-763.47
7,655.0	4,538.72	90.25	346.93	3,428.44	0.75	3,370.87	-783.74
7,747.0	4,538.29	90.28	345.32	3,519.39	1.75	3,460.18	-805.80
7,838.0	4,537.85	90.28	346.22	3,609.28	0.99	3,548.38	-828.17
7,929.0	4,537.26	90.46	345.28	3,699.15	1.05	3,636.58	-850.57
8,020.0	4,536.33	90.71	346.62	3,789.07	1.50	3,724.85	-872.66
8,112.0	4,535.95	90.34	349.92	3,917.96	3.61	3,814.89	-891.36
8,204.0	4,535.40	90.34	350.62	4,009.80	0.76	3,905.56	-906.91
8,295.0	4,535.06	90.06	351.16	4,100.50	0.66	3,995.50	-922.44
8,387.0	4,535.01	90.00	353.11	4,192.21	2.12	4,086.63	-935.03
8,479.0	4,534.91	90.12	353.52	4,247.01	0.46	4,178.00	-945.74
8,574.0	4,534.66	90.18	349.89	4,341.83	3.82	4,271.96	-959.44
8,668.0	4,534.26	90.31	352.57	4,435.63	2.85	4,364.83	-973.77
8,762.0	4,533.86	90.18	350.38	4,529.45	2.33	4,457.77	-987.70

01/01/2015

Rig Name: H&P 461

Depth = 10,770.0 Progress = 1888.0

- 06:00 R/DRILL LATERAL SECTION; F/8882' - T/9166' = 284'; @ 71 FPH; GPM 600, WOB 35, RPM:100, DIFF PSI 280; PP:2650, P/U:165, S/O:92, R/T:128, ON BTM TQ:17; OFF BTM TQ:8K; MW REPORTED AT 9.6 IN/OUT. PICK UP OFF BOTTOM, CHECK FOR FLOW. RETURN TO DRILLING MW IN/OUT = 10.1.
- 10:00 R/DRILL LATERAL SECTION; F/9166' - T/9488' = 322'; @ 80.5 FPH; GPM 600, WOB 35, RPM:100, DIFF PSI 280; PP:2700, P/U:190, S/O:92, R/T:145, ON BTM TQ:19K; OFF BTM TQ:19K; ACC. 2730 PSI; MANIFOLD 1540 PSI; ANNULAR 1780 PSI;
- 14:00 R/DRILL F/9488' - T/9637' = 149' @ 75 FPH; GPM 599', WOB:35, RPM:90, MRPG 95, SPM:156; DIFF PSI 280; PP:2700, P/U:190, S/O:92, R/T:145, ON BTM TQ:19K; OFF BTM TQ:8K;
- 16:00 SERVICE RIG; SERVICE TOP DRIVE {CHECK FLUID LEVELS GREASE SWIVEL PACKING & DAILIES} CALIBRATE & CHECK CROWN SAVER; SPR @ 9635 #1 PUMP 30-280, 40-400, 50-500, #2 PUMP 30-300, 40-400, 50-450
- 17:00 R/DRILL F/9637' - T/9731' = 94' @ 94 FPH; GPM 599', WOB:35, RPM:90, MRPG 95, SPM:156; DIFF PSI 280; PP:2700, P/U:190, S/O:92, R/T:145, ON BTM TQ:19K; OFF BTM TQ:8K;
- 18:00 R/DRILL LATERAL SECTION; F/9731' - T/10109' = 378' @ 95 FPH; GPM 599', WOB 35, RPM:90, MRPG 95, SPM:156; DIFF PSI 150; PP:3000, P/U:202, S/O:92, R/T:143, ON BTM TQ:19K; OFF BTM TQ:11K; ACC. 2800 PSI; MANIFOLD 1500 PSI; ANNULAR 1700 PSI; SAFETY HUDDLE DISCUSSED WORKING IN FREEZING WEATHER;
- 22:00 R/DRILL LATERAL SECTION; F/10109' - T/10435' = 326' @ 82 FPH; GPM 599', WOB 37, RPM:90, MRPG 95, SPM:156; DIFF PSI 150; PP:3000, P/U:202, S/O:92, R/T:140, ON BTM TQ:19K; OFF BTM TQ:11K; CLOSE LOOP PIT SYSTEM F/ONE HR. (NO LOST FLUIDS);
- 02:00 R/DRILL LATERAL SECTION; F/10435' - T/10770' = 335' @ 83' FPH; GPM 599', WOB:35, RPM:90, MRPG 95, SPM:156; DIFF PSI X150; PP:3000, P/U:202, S/O:112, R/T:139, ON BTM TQ:19K; OFF BTM TQ:11K;

Vis (s/qt): 28, Dens (lb/gal): 10.00, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
8,857.0	4,533.64	90.09	348.29	4,624.01	2.20	4,551.11	-1,005.28
8,951.0	4,533.49	90.09	345.78	4,717.13	2.67	4,642.69	-1,026.37
9,045.0	4,533.37	90.06	342.18	4,809.43	3.83	4,732.99	-1,052.31
9,140.0	4,533.06	90.31	340.55	4,901.83	1.74	4,823.00	-1,082.66
9,234.0	4,532.71	90.12	343.03	4,993.42	2.65	4,912.27	-1,112.03
9,328.0	4,532.54	90.09	343.10	5,085.47	0.08	5,002.19	-1,139.41
9,423.0	4,532.42	90.06	344.17	5,178.68	1.13	5,093.34	-1,166.18
9,517.0	4,532.32	90.06	345.81	5,271.31	1.74	5,184.12	-1,190.52
9,612.0	4,532.06	90.25	343.96	5,364.89	1.96	5,275.82	-1,215.29
9,706.0	4,531.65	90.25	345.32	5,457.42	1.45	5,366.46	-1,240.19
9,801.0	4,531.32	90.15	346.37	5,551.28	1.11	5,458.57	-1,263.42

9,895.0	4,530.99	90.25	346.26	5,644.26	0.16	5,549.90	-1,285.66
9,989.0	4,530.69	90.12	346.05	5,737.20	0.26	5,641.17	-1,308.15
10,084.0	4,530.49	90.12	347.50	5,831.28	1.53	5,733.64	-1,329.88
10,178.0	4,530.34	90.06	346.25	5,924.38	1.33	5,825.18	-1,351.22
10,273.0	4,530.17	90.15	346.76	6,018.40	0.55	5,917.56	-1,373.39
10,367.0	4,529.92	90.15	350.98	6,111.85	4.49	6,009.73	-1,391.53
10,462.0	4,529.87	89.91	351.62	6,206.67	0.72	6,103.64	-1,405.90
10,556.0	4,529.69	90.31	349.50	6,300.41	2.30	6,196.35	-1,421.32
10,651.0	4,529.23	90.25	348.56	6,394.93	0.99	6,289.61	-1,439.40

01/02/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 758.0

- 06:00 R/DRILL LATERAL F/10770' T/11073'= 303' @ 75.75 FPH; WOB 35; GPM 433; PP 1800; DIRR 250; MRPG 70; OFF BTM TA 9; ON BTM TQ 19; P/U 202; S/O 92; R/T 145;
- 10:00 R/DRILL LATERAL F/11073' T/11393'= 320' @ 80 FPH; WOB 35; GPM 433; PP 1800; DIRR 250; MRPG 70; OFF BTM TA 9; ON BTM TQ 19; P/U 202; S/O 92; R/T 145;
- 14:00 R/DRILL LATERAL F/11393' T/TD @ 11528'= 135' @ 67.5 FPH; WOB 35; GPM 433; PP 1800; DIRR 250; MRPG 70; OFF BTM TA 9; ON BTM TQ 19; P/U 202; S/O 92; R/T 145;
- 16:00 RECYCLE FOR SURVEY & DOWNLINK TO CENTER MODE;
- 16:30 PERFORM CLEAN UP CYCLE; PUMP 2 - 40 BBL HI-VIS SWEEPS W/433 GPM; 80 RPM; WORKING PIPE @ 300 FPH; STANDING BACK 1 STAND PER HOUR FOR 10 HOURS; EJSA'S REVIEWED: MOUSE HOLE CONNECTIONS; MAKING UP STANDS IN MOUSE HOLE; P/U TUBULARS W/PDS; MOVING TUBULARS W/FORKLIFT; FORKLIFT OPS; SAFETY HUDDLE DISCUSSED; FROZEN MAST; TDS & HOIST LINES CAUSING FALLING ICE; CLOSED LOOP 1 HR NO GAINS/LOSSES;
- 02:30 CONTINUE CLEAN UP CYCLE DUE TO ICY CONDITIONS PREVENTING CASING & CASING RUNNING EQUIPMENT TO BE DELIVERED TO RIG; CIRCULATE & WORK PIPE @ 300 FPH; 400 GPM; 80 RPMs; P/U 1 STD PER HR; SAFETY HUDDLE DISCUSS HOUSE KEEPING;

Vis (s/qt): 28, Dens (lb/gal): 10.10, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
10,745.0	4,528.75	90.34	347.27	6,488.26	1.38	6,381.52	-1,459.08
10,840.0	4,528.21	90.31	345.95	6,582.29	1.39	6,473.93	-1,481.08
10,935.0	4,527.77	90.22	344.08	6,675.91	1.97	6,565.69	-1,505.64
11,029.0	4,527.36	90.28	344.04	6,768.28	0.08	6,656.07	-1,531.46
11,123.0	4,526.90	90.28	343.83	6,860.61	0.22	6,746.40	-1,557.47
11,218.0	4,526.52	90.18	344.51	6,953.99	0.72	6,837.79	-1,583.38
11,312.0	4,526.19	90.22	344.66	7,046.51	0.17	6,928.41	-1,608.37
11,406.0	4,525.80	90.25	344.42	7,139.02	0.26	7,019.01	-1,633.43
11,503.0	4,525.40	90.22	345.27	7,234.58	0.88	7,112.63	-1,658.79

01/03/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

- 06:00 WAIT ON CASING & PERFORM CLEAN UP CYCLE; RECIPROCATING PIPE @ 300 FPH; 350 GPM & 80 RPMS; TIH 1 STD PER/HR T/11528; PUMP 40 BBL HI-VIS SWEEP @ 435 GPM; PULLING 1 STD PER HOUR;
- 18:00 DOWNLINK T/ RIBS OFF; BLOW DOWN KELLY HOSE & FLOW CHECK;
- 19:00 TOH LDDP F/11310' T/7650'; SAFETY HUDDLE DISCUSSED WORKING IN FREEZING TEMPERTURES;
- 00:00 REPLACE BAD BELT ON P.D.S.;
- 03:00 L.D.D.P. F/7650' T/4988'; SAFETY HUDDLE DISCUSS INSPECTING EQUIPMENT & TOOLS;

01/04/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

- 06:00 L.D.D.P. F/4988' T/884';
- 11:00 REPLACE DIES ON ST-80
- 12:00 L.D.D.P. F/884' T/785'; REMOVE ROTATING HEAD; L/D BHA (FOUND BIT & DRIVE SUB MISSING & LEFT IN HOLE); CONTACTED FORGE MANAGEMENT;
- 15:00 CLEAN & CLEAR RIG FLOOR;
- 15:30 RIG SERVICE; RECALIBRATE HMI & CHECK CROWN SAVER;
- 16:00 R/D DIRECTIONAL EQUIPMENT;
- 16:30 WHILE WAITING ON ORDERS; REPLACE BELT ON PDS; CLEAN, DRIFT & STRAP 5.5" CASING; STRAP DRILL PIPE; LOCATE TRICONE BIT & BIT SUB; {SPOKE W/WEATHERFORD FISHING SERVICES, HAVE FISHERMAN AND TOOLS ON BOARD IF NEEDED}
- 20:30 M/U BIT & BIT SUB; TIH P/U DRILL PIPE; TIH TO KICK-OFF POINT @ 4396' AT NORMAL SPEED; TIH F/4396' - 5660' @ 30 FT/MIN.

Vis (s/qt): 28, Dens (lb/gal): 10.13, pH: 10.0

01/05/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

- 06:00 TIH P/U PIPE F/5660' - T/9755' @ 30 FT/MIN; (TAKING WEIGHT & UNABLE TO CONTINUE;)
- 15:30 CIRC & PERFORM CLEAN UP CYCLE F/9740' T/9530'; PUMPED 40 BBL HI-VIS SWEEP; W/500 GPM & 80 RPM;
- 20:00 TIH TAGGED @ 9755' WORKED PIPE & TAGGED @ 9761', CONTINUED WORKING PIPE; GAINING FOOTAGE EACH TIME T/9797'; UNABLE TO PASS THAT POINT;
- 21:00 CIRCULATE @ 9787', SAFETY HUDDLE DISCUSSED TOH;
- 21:30 TOH; PULL ROTATING HEAD L/D BIT & BIT SUB;

02:30 UNLOAD; STRAP & CALIPER FISHING TOOLS; P/U & M/U FISHING ASSY;

01/06/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

06:00 CONTINUE M/U FISHING BHA; {SAW TOOTH SHOE, WP TOP SUB, 4.5" FH X 4.5" XH, 1 JOINT OF DP, DRILLING JARS}

07:00 TIH T/1767'

08:00 SLIP & CUT 90' DRILL LINE;

10:00 RIG SERVICE; RECALIBRATE HMI; CHECK CROWN SAVER;

10:30 TIH F/1767' - T/7945'; BEGIN WASHING AND REAMING F/7945' - 9810' TAG FISH (SAW APPROXIMATELY 100 PSI GAIN AND INCREASE IN TORQUE); PICK UP OFF OF FISH WHILE ROTATING, WENT DOWN TO TAG FISH AGAIN, DID NOT SEE SAME PRESSURE INCREASE OR SAME TORQUE RESPONSE. WASH AND REAM PUSHING FISH TO BOTTOM @ 11528';

22:30 INCREASE FLOW RATE TO 591 GPMS; 2480 PSI; ATTEMPT TO WORK OFF OF FISH; PICK UP 5' FLOW RATE @ 591 GPMS; 2430 PSI; PICK UP 5 ADDITIONAL FT; 2440 PSI. INCREASE RPMS IN STAGES F/20 - 60 RPMS WHILE PUMPING 591 GPMS, WORK PIPE WHILE MONITORING SHAKERS UNTIL CLEAN. PUMP 2 STANDS OUT OF HOLE F/11528' - 11349'.

00:00 POOH F/11349' - 820'

Vis (s/qt): 28, Dens (lb/gal): 10.13, pH: 10.0

01/07/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

06:00 POOH F/820 - FISHING BHA, L/D SAW TOOTH SHOE, WP TOP SUB, X/O, 1 JOINT OF DP, DRILLING JARS, {SHOE SHOWED THAT 4" OF FISH HAD BEEN SWALLOWED}

07:30 P/U AND M/U MILL, SUB, 1 JOINT OF DP, DRILLING JARS

08:30 RIG SERVICE {CHANGE OUT DIES ON ST-80}

09:00 TIH TO 1750', INSTALL ROTATING HEAD, TIH TO 1750' - 9184'

14:30 WASH AND REAM F/9184' - 11528'

17:30 CIRCULATE AND CONDITION HOLE WHILE RACKING BACK 1 STAND PER HOUR. 600 GPMS, 100 RPMS.

23:30 POOH LAYING DOWN DP F/10909' - 2800' @ 1247.5 FPH.

Vis (s/qt): 28, Dens (lb/gal): 10.13, pH: 10.0

01/08/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

06:00 POOH LAYING DOWN DP F/2800' - 1078' @ 1148 FPH. TIH F/1078' - 1523', POOH LAYING DOWN F/1523' - 69', L/D FISHING ASSEMBLY.

09:00 PULL WEAR BUSHING, CLEAN AND CLEAR RIG FLOOR, L/D BAILS AND

ELEVATORS.

- 10:00 PJSM, P/U AND M/U CRT
- 12:00 M/U 1 JOINT SHOE TRACK, TEST FLOATS, CLOSE STANDPIPE AND RUN 5.5" 17# L-80 BTC CASING T/6373' WITHOUT FILLING UP PIPE. P/U AND M/U 5 ½" 17 - 20# P-110/Q-125 Halliburton BACE tool (Float in Sub) Part Number:102143629. RUN 5.5" 17# CASING F/6376' - 10666'. FILL UP EVERY 10-20 JOINTS.

01/09/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

- 06:00 RUN 5.5" 17# L-80 BTC CASING T/11517' (11' OFF BOTTOM)
- 07:30 R/D CRT; P/U CEMENTING HEAD, BAILS & ELEVATORS; R/U CEMENTERS
- 08:00 HOLD PJSM W/HALLIBURTON & CREWS; TEST LINES TO 6000 PSI; PRESSURE UP TO RUPTURE BACE TOOL DISC (4500 PSI TO RUPTURE), WAIT 15 MINS PER HALLIBURTON, BLEED AIR OFF CEMENTING HEAD (NO AIR), START CIRCULATION, CIRCULATED UNTIL RETURNS WERE ESTABLISHED, PUMP RUPTURE PLUG AND DISPLACE TO BACE TOOL, APPLY APPROXIMATELY 150 LBF AND RELEASE BACE TOOL, DISPLACE RUPTURE PLUG AND BACE TOOL TO FC WHILE CIRCULATING THROUGH CHOKE, MAINTAINING CONSTANT BHP, SEAT PLUG ON FC, PRESSURE UP AND RUPTURE PLUG (1500 PSI), CIRCULATE BU THROUGH CHOKE.
- 15:00 PUMP CEMENT JOB AS FOLLOWS: 20 BBL FW SPACER, 20 BBL, GEL RED DYE SPACER, 600 SKS OF LEAD {11.5 PPG, 2.818 FT³/SK, 16.58 GAL/SK}; 195 SKS OF 2ND LEAD {13.2 PPG, 1.664 FT³/SK, 8.45 GAL/SK}; 1820 SKS OF TAIL {14.2 PPG, 1.307 FT³/SK, 6.07 GAL/SK}. DISPLACE WITH 266.4 BBLS OF FW. HALLIBURTON PUMPS FAILED AFTER 86 BBLS DISPLACED; FINISHED DISPLACEMENT W/ RIG PUMP; BUMPED PLUG WITH 500 PSI, BRING PRESSURE UP 500 OVER, HOLD FOR 5 MINS, GOT 2.5 BBLS BACK FROM LINES, FLOATS HELD, CEMENT CIRCULATED TO SURFACE 19 BBLS. 100% RETURNS THROUGHOUT JOB.
- 21:30 FLUSH STACK; FLOWLINE & MUD LINES; R/D HALLIBURTON; N/D & RAISE BOP'S; CUT OFF CASING; MOVE BOP'S; DRESS & N/U TUBING HEAD; TEST T/3000 PSI; REMOVE ROTATING HEAD; DSA & SPOOL; CLEAN MUD TANKS; RIG RELEASED @ 06:00 HRS;

01/10/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

- 06:00 RIG DOWN; INSPECT TUBULARS; LOAD OUT RENTAL EQUIPMENT & CLEAN RIG;
- 18:00 WAIT ON DAYLIGHT;

01/11/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

06:00 RIG DOWN; LOWER DERRICK & SUB-STRUCTURE; PART DERRICK & SUB-STRUCTURE W/TRUCKS; INSPECT TUBULARS;

18:00 WAIT ON DAYLIGHT & TRUCKS;

01/12/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

06:00 CLEANING & MOVING RIG; INSPECTING TUBULARS; (FOUND NEEDING TO BE SHOPPED: 25 FOR HARD BAND; 6 FOR THREADS 1 PITTING; 2 BEYOND REPAIR); RIG 60% MOVED; RIG MOVE DELAYED AT REQUEST FROM H&P SUPERINTENDANT; REQUIRED RIG MANAGER TO GET RIG CLEAN PRIOR TO BEING MOVED TO YARD; RIG MOVE TO RESUME TOMORROW;

18:00 CLEANING RIG;

22:00 WAIT ON DAYLIGHT

01/13/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

06:00 MOVE RIG & RELEASE REMAINING RENTALS: (STILL ON LOCATION: DRILL PIPE; PIPE RACKS & MISC.; RIG MANAGER DON PLANS TO RESUME MOVE W/TRUCKS IN THE MORNING; PORCH WATER & SEWER TANKS; TRASH TRAILER & PORTA POTTIES FROM A&P STILL ON LOCATION ; SPOKE W/KEVIN WHO PLANS TO REMOVE THESE ITEMS IN THE MORNING; GENERATOR FROM RIG POWER STILL ON LOCATION; CONTACTED CLINT WHO PLANNED TO GET IT TODAY OR IN THE MORNING, CONTACTED ROBERT W/LONESTAR TO P/U FORKLIFT & PIPERACKS LEFT ON LOCATION; WHICH HE PLANS TO P/U IN THE MORNING; L&M ROUSTABOUTS TO CEAN AND SECURE LOCATION AFTER EQUIPMENT IS REMOVED.

17:00 WAIT ON DAYLIGHT

01/14/2015

Rig Name: H&P 461

Depth = 11,528.0 Progress = 0.0

07:00 Finish rig move, clean trash from location, repair barbed wire fence, cap mouse hole, remove trash trailer and sewer tanks, Manlift is still on location, would not start.