

FORGE Energy
UL 14 Triton 2123AH
API Number: 42-003-47177

06/04/2015

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location is clear for construction and permitting

06/09/2015

Rig Name:

Depth = 0.0 Progress = 0.0

06/10/2015

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location and pits are 50% complete

06/11/2015

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

Pad is 100% caliche and pit construction is 100% complete

06/12/2015

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

Set 80'X16" conductor, line pits, install barbed wire fence, lay poly pipe, and start fresh water to pits. Haul brine water from the Fisher 8-5H

06/14/2015

Rig Name: H&P 361

Depth = 0.0 Progress = 0.0

06:00 PRIOR TO RIG RELEASE OF UL 14 OBERON 2122AH - MOVED HWDP, DRILL COLLARS, DRILL PIPE TO NEW LOCATION, MOVED EXTRA MATS TO NEW LOCATION AND SET UP FOR RIG, MOVED MUD ADDITIVES, AND CHEMICAL TRAILER. GET ON BOARD WITH ALL VENDORS FOR NEW WELL AND ORDER SURFACE BHA, SURFACE CASING, FLOAT EQUIPMENT, WELLHEAD EQUIPMENT, SCHEDULE H2S RIG UP, MDTOTCO RIG UP, TRAILER'S MOVING 06/14/15 @ 7:30, SET UP ROUSTABOUTS FOR BACK DRAG ON 06/15/15. UL 14 OBERON RELEASED @ 03:00.

03:00 RIGGING DOWN ON UL 14 OBERON 2122AH. INSTALLED TRAVELING JT AND DOCKED TDS. UNSPOOLED D-WORKS, REMOVED KNIFE VALVE ON FLOWLINE THEN FLOWLINE. R/D BACKYARD (PITS, PUMPS, ETC.) R/D WRANGLER, SCOPED IN DERRICK.

06/15/2015

Rig Name: H&P 361

Depth = 394.0 Progress = 298.0

- 06:00 RIGGING DOWN; PREPARING FOR TRUCKS TO ARRIVE.
- 07:30 TRUCKS ARRIVED AT 07:15, GATHER UP AND CONDUCT PJSM WITH EVERYONE ON LOCATION. DISCUSSED TIE OFFS, LOTO, SPOTTERS, STOP JOB AUTHORITY, STAYING HYDRATED, AND THE NUMBER GOAL BEING EVERYONE GO HOME SAFETY AT THE END OF THE JOB. HAD ROUSTABOUT CREW, 2-TANDEM, 2-FORKLIFTS, 2-POLE TRUCKS, HAD 5 TRUCKS TO START BUT MORE AND MORE CAME THROUGHOUT THE MOVE.
- 08:00 MOVE DIRECTIONAL AND CO. MAN TRAILERS, LEAVE CREW HOUSE, CHANGE HOUSE, AND RIG MANAGER TRAILER ON RENTAL GENERATOR SO NIGHT CREW COULD SLEEP AND WASH CLOTHES. LOAD OUT GENERATORS, VFD HOUSE, DIESEL TANK, MOVE CATWALK AND BOP ON WRANGLER. PULL OUT SHAKER SKID @ 08:45, LOWER DRILLER'S CABIN @ 09:00, LOAD OUT MUD PUMPS @ 09:10; LOAD OUT DRILLER'S CABIN/ACCUMULATOR SYSTEM @ 09:25, @ 09:25 JSA FOR LOWERING SUBS, LOWER SUB @ 09:30, LOAD OUT MUD PITS @ 09:45; PULL D-WORKS, ST-80, CENTER FLOOR @ 10:00. LOAD OUT SHAKERS/GAS SEPARATOR @ 10:00, LOAD OUT CENTER FLOOR @ 10:15; LOAD OUT PRE-MIX @ 10:20; LAY OVER DERRICK @ 10:30. LOAD OUT FORKLIFT/MANLIFT. ON NEW LOCATION SPOT DIESEL TANK, GENERATORS, PARTS HOUSE, VFD HOUSE AND PERFORM INJECTOR TEST ON GENERATORS. SPOT SHAKER SKID AND RAISE COVER SPOT DOGHOUSE. DERRICK ON NEW SIDE @ 12:20. SET IN DOGHOUSE. SET IN MUD PUMPS AND PITS, SET IN PRE-MIX. PIN DERRICK TO SUBS @ 13:20, RAISE OFF OF TRUCK @ 13:30. TOOK 15 MIN SAFETY BREAK IN SHADE AND RE-HYDRATED, JSA FOR RAISING DERRICK, RAISE DERRICK @ 13:45. HAD JSA FOR RAISING SUBS @ 14:45. RAISE SUBS @ 15:00. SET BOPE AT THE SUB BASE. SET PIPE WRANGLER. HAD BAR-B-Q FOR ALL THE RIG AND TRUCKING PERSONNEL TO CELEBRATE THE RECORD WELL DONE 100% SAFELY. SET CENTER STEEL, RAISE SUB @ 15:00. SCOPE OUT MAST @ 16:00, PLUG IN ELECTRICAL AND MISC LINES AROUND RIG. LAST TRUCK LEFT @ 16:00
- 16:00 PLUG IN ELECTRICAL AND MISC LINES AROUND RIG, CHECKED GROUND RODS, POWERED UP @ 19:00, SPOOLED UP D-WORKS @ 20:00, UNDOCKED TDS @ 20:30, RIG UP PVC TO RESERVE PITS, FILL PITS WITH FW, BUILD SWEEPS IN SLUGGING TANK AND PRE-MIX TANK, OFFLOAD SHOCK SUB, IBSs, AND BIT, OFFLOAD KP EXTREME TOOL. SAFETY SOLUTIONS RIGGED UP @ 20:00. MDTOTCO RIGGED UP @ 22:00. DAY CREW WORKED TILL 22:00. RIG ON DAY-RATE @ 20:30 06/14/2015.
- 22:00 PICK UP CONDUCTOR WITH AIR BOOT AND INSTALL, INSTALL FLOW LINE, PRESSURE UP BOOT ON FLOW LINE AND BOOT AT THE CONDUCTOR. FASTEN ALL CHAINS/BOOMER. INSTALLED FLOW SENSOR AND FILL UP LINE. CONTINUING TO BUILD SWEEPS IN PRE-MIX/SLUGGING TANK.

- 23:30 CONDUCT PRE-SPUD INSPECTION, TEST MUD PUMPS TO 3500 PSI AS PER HALLIBURTON REQUIREMENT TO CEMENT THROUGH RIGS LINES. CHECK CROWN SAVER. STRAP AND CALIPER BHA. BRING BIT TO FLOOR.
- 00:30 P/U SURFACE BHA AS FOLLOWS: 12.25" D516S W/8X10 NOZZLES; {MADE UP BIT WITH ST-80 AFTER SHANK LENGTH WAS INCREASED BY DB, DID NOT HAVE TO PICK UP SCORPION} 8" SHOCK SUB; 8" MWD; X/O' IBS; {HAD TO STOP AND CHANGE OUT DIES ON ST-80} 8" DC; IBS; 8" DC; TAG CEMENT @ 96'. TEST MWD TOOL. SURVEY GOOD. {SPUD WELL 23.5 HOURS FROM RR; NEW ALL-TIME FIELD RECORD}
- 02:30 R/DRILL F/96' - 394' = 298' @ 85 FPH; SURF RPMS:55-110; GPMS:500-600, ON BOTTOM TOQ:3K, OFF BOTTOM TOQ:1K, PP:850, P/U:50, S/O:48; R/T:49; PUMPING 10 BBL SWEEP EVERY 90'-135'; TAKING SURVEY EVERY 90'.

Vis (s/qt): 28, Dens (lb/gal): 8.40, pH: 8.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
158.0	158.00	0.09	7.49	0.00	0.00	0.00	0.00
249.0	249.00	0.48	121.54	0.20	0.57	-0.13	0.33
342.0	342.00	0.48	118.76	0.74	0.03	-0.52	1.00

06/16/2015

Rig Name: H&P 361

Depth = 1,855.0 Progress = 1461.0

- 06:00 R/DRILL F/394' - 861' = 467' @ 186 FPH; WOB:20-38K; SURF RPMS:90-110; GPMS:800, ON BOTTOM TOQ:9K, OFF BOTTOM TOQ:2K, PP:1950, P/U:69, S/O:67; R/T:69; PUMPING 10 BBL SWEEP EVERY 90'-135'
- 08:30 GENERATOR#1 WENT DOWN, ELECTRICIAN WAS ON LOCATION, TROUBLESHOOT GENERATOR. {CALLED TXRRC AND GOT FINAL JOB# 8381}
- 09:30 L/D JOINT OF DP, RIG SERVICE TOP DRIVE. {ELECTRICIAN WORKING ON GEN#1}
- 10:00 R/DRILL F/861' - 1582' = 721' @ 180 FPH; WOB:20-38K; SURF RPMS:90-110; GPMS:800, ON BOTTOM TOQ:9K, OFF BOTTOM TOQ:2K, PP:2120, P/U:75, S/O:75; R/T:75; PUMPING 10 BBL SWEEP EVERY 90'-135'
- 14:00 WHILE ATTEMPTING TO BREAK OUT OF DP SAVER-SUB BROKE OUT INSTED OF DP. HAD TO TAKE OFF CLAMP AND BREAK OUT SAVERSUB WITH ST-80 THEN RETORQUE SAVERSUB & RETORQUE CLAMP ON SAVER SUB & LOWER IBOP
- 14:30 R/DRILL F/1582' - 1855' = 273' @ 182 FPH; WOB:20-38K; SURF RPMS:90-110; GPMS:725-800, ON BOTTOM TOQ:15K, OFF BOTTOM TOQ:1K, PP:2200, P/U:87, S/O:86; R/T:87; PUMPING 10 BBL SWEEP EVERY 90'-135'
- 16:00 PUMP 2-BUs WHILE ON BOTTOM BEFORE LAYING DOWN LAST JOINT TO WORK PIPE MORE THAN 3'. L/D 1 JOINT. WORK PIPE F/1853-1800' @ 40 RPM, 700 GPM AND 300 FT/HR. PUMP 2-40 BBL HIGH VIS FRESH GEL SWEEPS. EVALUATE SHAKERS DURING CLEAN UP CYCLE. SHAKERS WERE CLEAN FOR 1 BU PRIOR TO STARING TRIP.

- 17:30 POOH F/1803' - 1150' WITH 0-30K OVERPULL; @ 1150' HIT TIGHT SPOT OF 35K; WORKED UP AND DOWN AND CONTINUED F/1150' - 131' WITH VERY LITTLE OVERPULL.
- 20:00 L/D X/O; 8" DC, IBS, 8" DC, IBS, X/O, MWD TOOL (SOFT BREAK); BREAK BIT WITH ST-80; L/D SHOCK SUB. GRADE BIT 1,1,1,1,1,1
- 21:30 CLEAN AND CLEAR RIG FLOOR; BRING ALL 9 5/8" CASING EQUIPMENT TO RIG FLOOR, PJSM WITH H&P CREW, H&P CRT TECH, RIG MANAGER, CO. MAN ON P/U CRT.
- 22:00 PJSM WITH H&P CREW, H&P CRT TECH, RIG MANAGER, CO. MAN ON RIGGING UP CRT, ENGAGE PSI @2000 PSI RELEASE @ 1000 PSI OD COLLAR 10 5/8", ID ELEVATORS 8 3/4" CALLIBRATED D-WORKS, CHECKED CROWN SAVER.
- 23:00 P/UP & MAKE UP SHOE TRACK & PUMP THROUGH SHOE TRACK & RUN 44 JTS 9.625" 36# J-55 LTC F/SURFACE' - T/1855' SHOE IS @ 1855', FLOAT COLLAR IS @ 1810'. 16 CENTRALIZERS USED EVERY 3RD JOINT. HIT TIGHT SPOT @ 1012' WASH DOWN FROM 1012' T/1095' & WASH LAST JT DOWN T/1855'. CEMENTERS ON LOCATION RIGGING UP LINES AND PREPARING TRUCK WHILE WASHING LAST JOINT DOWN.
- 04:30 HELD S/M WITH HALLIBURTON'S CREW, RIG CREW, RIG MANAGER, CO.MAN, DISCUSSED HIGH PRESSURES ON STEEL LINES & CEMENTING OPERATIONS WHILE CIRCULATING BTMS UP. FINISH RIGGING UP HALLIBURTON'S LINES.
- 05:00 PUMP CEMENT JOB AS FOLLOWS: TEST LINES TO 3000; TEST OK; PUMP CEMENT JOB AS FOLLOWS: 20 BBL RED DYE SPACER; LEAD CEMENT: 650 SKS, 12.9 PPG, 1.854 FT3/SK, 9.75 GAL/SK; TAIL CEMENT: 130 SKS, 14.8 PPG, 1.372 FT3/SK, 6.36 GAL/SK; 142 BBLS OF FW DISPLACEMENT; {PUMPING DISPLACEMENT @ 06:00}

Vis (s/qt): 34, Dens (lb/gal): 9.20, pH: 8.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
403.0	403.00	0.48	96.75	1.00	0.30	-0.67	1.48
524.0	523.99	0.62	97.24	1.40	0.12	-0.81	2.63
647.0	646.98	0.62	102.47	1.93	0.05	-1.04	3.94
708.0	707.98	0.70	97.37	2.21	0.16	-1.16	4.63
800.0	799.97	0.88	95.57	2.64	0.20	-1.30	5.89
875.0	874.96	1.01	96.05	3.04	0.17	-1.43	7.12
965.0	964.94	1.19	98.64	3.66	0.21	-1.65	8.83
1,055.0	1,054.92	1.10	103.56	4.40	0.15	-1.99	10.59
1,145.0	1,144.90	1.01	102.16	5.14	0.10	-2.36	12.21
1,235.0	1,234.88	1.10	108.97	5.94	0.17	-2.81	13.80
1,326.0	1,325.86	1.19	113.63	6.98	0.14	-3.47	15.49
1,416.0	1,415.84	1.49	111.26	8.21	0.34	-4.27	17.44
1,506.0	1,505.81	1.49	125.67	9.76	0.42	-5.38	19.48
1,596.0	1,595.78	1.58	131.34	11.66	0.20	-6.88	21.36
1,686.0	1,685.74	1.80	134.15	13.87	0.26	-8.68	23.31
1,776.0	1,775.70	1.80	138.63	16.31	0.16	-10.73	25.26

1,824.0	1,823.68	1.71	140.65	17.62	0.23	-11.85	26.21
1,855.0	1,854.67	1.71	140.65	18.46	0.00	-12.57	26.80

06/17/2015

Rig Name: H&P 361

Depth = 1,980.0 Progress = 125.0

- 06:00 PUMP 140 BBLS OF FW DISPLACEMENT; LANDED PLUG WITH 800 PSI; BROUGHT UP TO 1623 PSI AND HELD FRO 5 MINS; FLOATS HELD; GOT 1 BBLS BACK FROM LINES; 100% RETURNS THROUGHOUT JOB; CIRCULATED 79 BBLS OR 239 SKS TO SURFACE. RIG DOWN CEMENTER LINES, AND LAY OVER BY CELLAR.
- 06:30 FLUSH AND CLEAR LINES AND SHAKERS, REMOVE TURNBUCKLES, TAKE FLOWLINE OFF, RELEASE CASING FROM CRT, AND P/U RISER PIPE; CHECK FOR CEMENT ON BACKSIDE, CEMENT HAD NOT FELL; JETTING AND CLEANING PITS SIMULTANEOUSLY.
- 07:00 ROUGH CUT 9 5/8" CASING, L/D SAME {CASING CENTERED IN CONDUCTOR PERFECT}, FINAL CUT ON 9 5/8" CASING, WELD 9 5/8" SOW X 11" 5M WELLHEAD AT GROUND LEVEL AND TEST TO 1300 PSI, TEST GOOD.
- 08:30 REVIEW JSA AND RIG DOWN AND L/D CRT
- 09:00 PJSM WITH BATTLE N/U CREW. N/U BOPE AS FOLLOWS: 11" 5M X 11" 5M DRILLING SPOOL, 11" 5M DOUBLE RAM BOP DRESSED WITH BLINDS AND 4 1/2" PIPE RAMS, 11" 5M SINGLE STUD ADAPTER, 11" 5M ANNULAR BOP, 11" 5M LOW PRESSURE RBOP. FILL UP PITS WITH BRINE WATER.
- 11:00 INSTALL FLOWLINE; CHAINS/BOOMER; FILL UP LINE; KOOMEY HOSES; ETC; INSTALL HYDRAULIC CHOKE LINES; FUNCTION TESTED BOPE.
- 12:30 PJSM WITH TESTER; M/U TESTING EQUIPMENT AND TEST CHOKE MANIFOLD, BOP, ANNULAR, MUD LINES, MANUAL TOP DRIVE VALVE, AND FLOOR VALVES TO 250 LOW, 3000 HIGH; TEST CASING TO 1500 PSI FOR 30 MINS; ALL TESTS GOOD. RIG DOWN TESTER. MUDDLOGGERS ON LOCATION @ 13:00. DIRECTIONAL ON LOCATION @ 15:00.
- 18:30 INSTALL RUBBER VENT LINE ON FLOW LINE, FINISH RIGGING UP FLARE LINE, INSTALL WEAR BUSHING
- 19:30 BRING ALL FLOOR TOOLS TO RIG FLOOR (HANDLING SUBS, BIT, SLIPS,DART VALVE, FULL OPEN SAFETY VALVE
- 20:00 RIG UP BAKER BPA EQUIPMENT; FINISHING RIGGING UP BAKER LINES; FINISH SURFACE TEST ON ATCURVE TOOL; FIRST TOOL DID NOT TEST ON THE GROUND PROPERLY.
- 21:00 S/M P/UP & MAKE UP AUTO-TRAK ASSEMBLY, SHALLOW TEST TOOL, MAKE UP REMAINING ATCURVE ASSEMBLY.
- 22:30 CONTINUE TIH F/151' - T/1684', TAGGED CEMENT @ 1684' {INSTALL ROTATING HEAD AFTER LAST JOINT OF HWDP}.
- 00:30 BOP DRILL AND CHOKE DRILL: CLOSED ANNULAR; PUMPED TO 200 PSI, CIRCULATE SIMULATED KICK OUT OF HOLE MAINTAINING 200 PSI ON

DP PRESSURE, DRILLER INCREASED STROKES GRADUALLY WHILE FLOORHAND WORKED CHOKE WITH CO. MAN AND RIG MANAGER OVERSIGHT.

- 01:00 DRILL CEMENT F/1684' - 1806', DRILL PLUG AND FLOAT COLLAR, DRILL CEMENT F/1806' - 1855'.
- 03:30 R/DRLG F/1855' - T/1980' = 125' @ 50 FPH; WOB:25-30K; GPM:550; SURF RPMS:90; PP:1400; DIFF:200; ON BOTTOM TOQ:7K; OFF BOTTOM TOQ:1K; P/U:64K; S/O:60K; R/T:62; PUMPING 10-15 BBLs SALT GEL SWEEPS EVERY 120-180'. SAFETY BREAK, DISCUSSED STAYING FOCUSED ON THE LAST FEW HOURS ON LAST DAY.

Vis (s/qt): 28, Dens (lb/gal): 9.95, pH: 9.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
1,887.0	1,886.66	0.91	138.66	18.78	1.25	-12.81	27.17

06/18/2015

Rig Name: H&P 361

Depth = 4,388.0 Progress = 2408.0

- 06:00 R/DRLG F/1980' - T/2723' = 743' @ 186 FPH; WOB:15-30; GPM:600; SURF RPMS:70-100; PP:1900; DIFF:400-600; ON BOTTOM TOQ:8K; OFF BOTTOM TOQ:2K; P/U:86K; S/O:79K; R/T:83K; PUMP 10 BBL HIGH VIS SWEEP EVERY 130'; ACC PSI:2870, ANN PSI:1510, MANI PSI:1510.
- 10:00 R/DRLG F/2723' - T/3255' = 532' @ 133 FPH; WOB:15-30; GPM:550-600; SURF RPMS:60-110; PP:1600; DIFF:200-300; ON BOTTOM TOQ:4-6K; OFF BOTTOM TOQ:2K; P/U:89K; S/O:85K; R/T:78K; PUMP 10 BBL HIGH VIS SWEEP EVERY 130'; CLOSED LOOP FOR 1 HR F/3038' - 3165', LOST 2 BBLs.
- 14:00 R/DRLG F/3255' - T/3578' = 323' @ 81 FPH; WOB:15-30; GPM:500-625; SURF RPMS:60-100; PP:1900; DIFF:300-400; ON BOTTOM TOQ:5-7K; OFF BOTTOM TOQ:2K; P/U:93K; S/O:80K; R/T:88K; PUMP 10 BBL HIGH VIS SWEEP EVERY 130'; SPRs @ 3302' MW=9.9; (MP1 20-70,40-120,60-215; MP2 20-65,40-115, 60-210);
- 18:00 R/DRLG F/3578' - T/3845' = 267' @ 134 FPH; WOB:30; GPM:600; SURF RPMS:70-80; PP:1800; DIFF:300-400; ON BOTTOM TOQ:5-9K; OFF BOTTOM TOQ:2K; P/U:93K; S/O:80K; R/T:88K; PUMP 10 BBL HIGH VIS SWEEP EVERY 130'; ACC PSI:3160, ANN PSI:1490, MANI PSI:1680, PILOT PSI:930
- 20:00 CHANGE OUT RING GASKET ON RBOP
- 20:30 R/DRLG F/3845' - T/4107' = 262' @ 87 FPH; WOB:30; GPM:600; SURF RPMS:70-80; PP:1800; DIFF:300-400; ON BOTTOM TOQ:5-9K; OFF BOTTOM TOQ:2K; P/U:100K; S/O:89K; R/T:93K; PUMP 10 BBL HIGH VIS SWEEP EVERY 130'; ACC PSI:3160, ANN PSI:1490, MANI PSI:1680, PILOT PSI:930 {PRODUCTION VERTICAL = 20 HRS}
- 23:30 DOWNLINK TO BUILD MODE {GRAVITY STEER; 54% } FOR UPPER CURVE. CONFIRM PIPE COUNT ON LOCATION: DP 162 OUT; 80 IN = 242 JTS; 12 HWDP IN; 38 OUT.
- 00:00 R/DRLG F/4107' - T/4299' = 192' @ 48 FPH; WOB:10-25K; GPM:550; SURF

RPMS:50; PP:1700; DIFF:100-170; ON BOTTOM TOQ:2-4K; OFF BOTTOM TOQ:1K; P/U:105K; S/O:93K; R/T:96K; PUMP 10 BBL HIGH VIS SWEEP EVERY 130'; CLOSED LOOP FOR 1 HR; F/4164'- 4209' LOST 0 BBLS. {12.3 DLS F/4183'-4218'}

04:00 R/DRLG F/4299' - T/4388' = 89' @ 45 FPH; WOB:10-25K; GPM:550; SURF RPMS:50; PP:1800; DIFF:200-300; ON BOTTOM TOQ:3K; OFF BOTTOM TOQ:0.7K; P/U:111K; S/O:96K; R/T:102K; PUMP 10 BBL HIGH VIS SWEEP EVERY 130'; SPRs @ XXX' MW=9.9; (MP1 20-70,40-120,60-215; MP2 20-65,40-115, 60-210); VIBRATIONS HAVE BEEN VERY LOW (1-3 LATERALS; 0-3 AXIAL; 0-1 TANGENTIAL; 0-2 STICK SLIP); MSE BETWEEN 10-20KPSI (ALSO LOW).

Vis (s/qt): 28, Dens (lb/gal): 9.95, pH: 10.2

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
1,978.0	1,977.65	0.14	87.51	19.44	0.91	-13.35	27.76
2,068.0	2,067.65	0.10	198.85	19.53	0.22	-13.42	27.84
2,158.0	2,157.65	0.04	261.40	19.60	0.10	-13.50	27.78
2,248.0	2,247.65	0.06	261.01	19.59	0.02	-13.51	27.70
2,338.0	2,337.65	0.25	110.94	19.69	0.34	-13.59	27.84
2,428.0	2,427.65	0.19	303.94	19.70	0.49	-13.58	27.90
2,518.0	2,517.65	0.29	19.91	19.40	0.34	-13.28	27.85
2,608.0	2,607.65	0.57	354.80	18.76	0.37	-12.62	27.89
2,698.0	2,697.63	1.37	321.79	17.35	1.05	-11.33	27.18
2,788.0	2,787.61	1.01	321.71	15.65	0.40	-9.86	26.02
2,878.0	2,877.60	0.22	92.92	14.97	1.30	-9.25	25.70
2,968.0	2,967.59	0.86	98.61	15.28	0.71	-9.36	26.54
3,058.0	3,057.58	0.50	9.55	15.17	1.10	-9.07	27.27
3,148.0	3,147.58	0.44	57.22	14.69	0.43	-8.50	27.63
3,238.0	3,237.58	0.03	246.83	14.59	0.52	-8.32	27.90
3,328.0	3,327.58	0.11	298.65	14.53	0.10	-8.29	27.80
3,418.0	3,417.58	0.04	325.34	14.45	0.08	-8.22	27.71
3,508.0	3,507.58	0.07	97.81	14.43	0.11	-8.20	27.75
3,598.0	3,597.58	0.04	203.43	14.48	0.10	-8.24	27.79
3,688.0	3,687.58	0.15	345.68	14.39	0.20	-8.15	27.75
3,778.0	3,777.58	0.13	245.28	14.29	0.24	-8.08	27.63
3,868.0	3,867.58	0.15	356.96	14.19	0.26	-8.01	27.53
3,958.0	3,957.58	0.11	245.26	14.10	0.24	-7.93	27.45
4,048.0	4,047.58	0.21	257.80	14.11	0.12	-8.00	27.21
4,123.0	4,122.57	1.20	174.08	14.89	1.59	-8.81	27.16
4,153.0	4,152.54	3.42	165.69	16.10	7.47	-9.99	27.41
4,183.0	4,182.41	6.63	161.98	18.72	10.75	-12.50	28.17
4,218.0	4,216.98	10.90	158.45	24.00	12.29	-17.50	30.01
4,248.0	4,246.25	14.15	159.73	30.45	10.87	-23.58	32.32
4,278.0	4,275.22	15.92	161.04	38.19	6.01	-30.91	34.93
4,308.0	4,303.97	17.29	161.82	46.73	4.63	-39.04	37.66

06/19/2015

Rig Name: H&P 361

Depth = 5,229.0 Progress = 841.0

- 06:00 R/DRLG UPPER CURVE F/4388' - T/4515' = 127' @ 31.75 FPH; WOB:30K; GPM:550; SURF RPMS:50; PP:1784; DIFF:325; ON BOTTOM TOQ:5K; OFF BOTTOM TOQ:1.9K; P/U:111K; S/O:95K; R/T:103K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90'; ACC PSI:2860, ANN PSI:1380, MANI PSI:1430, PILOT PSI:930. SPRs @ 4393' MW=10; (MP1 20-79,40-133,60-214; MP2 20-67,40-125, 60-212);(SAFETY HUDDLE @ 9:00 ON INSPECTING ELECTRICAL WIRES)
- 10:00 R/DRLG UPPER CURVE F/4515' - T/4665' = 150' @ 37.5 FPH; WOB:32K; GPM:550; SURF RPMS:50; PP:1765; DIFF:275; ON BOTTOM TOQ:6.8K; OFF BOTTOM TOQ:2.1K; P/U:115K; S/O:91K; R/T:104K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90';CLOSED LOOP FOR 1 HR. NO G/L (SAFETY HUDDLE @ 12:00 ON H2S AWARENESS)
- 14:00 R/DRLG UPPER CURVE F/4665' - T/4800' = 135' @ 38.57 FPH; WOB:32K; GPM:550; SURF RPMS:50; PP:1784; DIFF:375; ON BOTTOM TOQ: 7K; OFF BOTTOM TOQ:2K; P/U:115K; S/O:90K; R/T:103K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90';CLOSED LOOP FOR 1 HR. NO G/L,
- 17:30 L/D JT.# 95 & SERVICE RIG (DRAW WORKS & TOP DRIVE) H2S DRILL @ 17:55 RIG CREWS, RIG MANAGER, SUTTLES LOGGING, BAKER & CO.MAN ALL MET AT MUSTER AREA DID HEAD COUNT DISCUSSED POSSABILITY OF HITTING H2S,
- 18:00 DOWN LINK W/DD @ 350 GPM & 40 RPM
- 18:30 R/DRLG TANGENT F/4800' - T/4858' = 58' @ 29 FPH; WOB:30K; GPM:550; SURF RPMS:60; PP:1850; DIFF:200; ON BOTTOM TOQ:7.5K; OFF BOTTOM TOQ:2.5K; P/U:116K; S/O:94K; R/T:104K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90';CLOSED LOOP FOR 1 HR. NO G/L, ACC PSI:3100, ANN PSI:1250, MANI PSI:1510, PILOT PSI:1130.
- 20:30 AFTER SENDING DOWN LINK WHILE BRINGING UP RPM TOOL ACCEPTED DOWN LINK AS RIBS OFF,DRILLED APPROX. 10'BEFORE CATCHING IT BEING IN RIBS OFF. WE STOPPED DRILLING & PICKED UP OFF BOTTOM CALLED FORGE REPRESENTATIVE & DISCUSSED ADJUSTING TANGENT TO 63 DEGREES.
- 21:00 R/DRLG TANGENT F/4858' - T/4938' = 80' @ 40 FPH; WOB:32K; GPM:550; SURF RPMS:60; PP:1850; DIFF:250; ON BOTTOM TOQ:8K; OFF BOTTOM TOQ:2.5K; P/U:122K; S/O:94K; R/T:106K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90';CLOSED LOOP FOR 1 HR. NO G/L,
- 23:00 DOWN LINK W/DD @ 400 GPM & 40 RPM
- 23:30 R/DRLG TANGENT F/4938' - T/5121' = 183' @ 45.75 FPH; WOB:33K; GPM:550; SURF RPMS:60; PP:1850; DIFF:250; ON BOTTOM TOQ:8.5K; OFF BOTTOM TOQ:2.5K; P/U:125K; S/O:95K; R/T:107K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90',(APPLIED FORCES FOR TANGENT F/4811' T/4955'= 144', SURVEYS F/4819'T/4940'
- 03:30 R/DRLG LOWER CURVE F/5121' - T/5229' = 108' @ 43.2 FPH; WOB:33K; GPM:550; SURF RPMS:60; PP:1850; DIFF:250; ON BOTTOM TOQ:9K; OFF BOTTOM TOQ:4K; P/U:128K; S/O:96K; R/T:110K; PUMP 10 BBL HIGH VIS

SWEEP EVERY 90'

Vis (s/qt): 28, Dens (lb/gal): 9.97, pH: 10.2

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,338.0	4,332.45	19.29	162.64	56.12	6.72	-48.01	40.53
4,368.0	4,360.59	21.19	163.77	66.48	6.47	-57.95	43.52
4,398.0	4,388.33	23.53	164.54	77.89	7.86	-68.93	46.63
4,428.0	4,415.60	25.72	165.38	90.38	7.39	-81.00	49.87
4,458.0	4,442.41	27.58	166.64	103.84	6.48	-94.06	53.12
4,488.0	4,468.73	29.74	168.01	118.22	7.53	-108.10	56.27
4,518.0	4,494.35	32.90	170.00	133.80	11.08	-123.40	59.23
4,548.0	4,519.11	35.80	171.20	150.68	9.93	-140.09	61.99
4,578.0	4,542.90	39.18	171.66	168.86	11.31	-158.14	64.71
4,608.0	4,565.57	42.58	170.77	188.42	11.50	-177.53	67.71
4,638.0	4,587.07	45.80	169.85	209.27	10.94	-198.13	71.23
4,669.0	4,607.98	49.31	168.68	232.11	11.66	-220.59	75.50
4,698.0	4,626.30	52.29	168.80	254.55	10.28	-242.62	79.89
4,728.0	4,644.02	55.29	169.03	278.73	10.02	-266.37	84.54
4,758.0	4,660.42	58.41	169.41	303.81	10.45	-291.03	89.24
4,788.0	4,675.52	61.12	169.14	329.69	9.07	-316.49	94.06
4,819.0	4,690.09	62.80	168.99	357.02	5.44	-343.35	99.25
4,850.0	4,704.16	63.20	168.90	384.62	1.32	-370.46	104.55
4,880.0	4,717.77	62.84	168.56	411.34	1.57	-396.68	109.77
4,910.0	4,731.45	62.92	168.62	438.02	0.32	-422.85	115.05
4,940.0	4,745.18	62.62	168.94	464.67	1.38	-449.02	120.24
4,980.0	4,762.61	65.70	168.83	500.63	7.70	-484.33	127.18
5,011.0	4,774.40	69.57	169.00	529.26	12.49	-512.45	132.69
5,042.0	4,784.19	73.57	168.84	558.63	12.91	-541.29	138.34
5,071.0	4,791.84	75.84	168.93	586.57	7.83	-568.73	143.73
5,102.0	4,798.67	78.68	168.62	616.77	9.21	-598.38	149.62
5,133.0	4,803.92	81.82	168.08	647.30	10.27	-628.29	155.79
5,164.0	4,807.52	84.85	168.34	678.06	9.81	-658.42	162.08
5,194.0	4,809.46	87.72	168.11	707.98	9.60	-687.72	168.19

06/20/2015

Rig Name: H&P 361

Depth = 7,077.0 Progress = 1848.0

06:00 R/DRLG LATERAL F/5229' - T/5485' = 256' @ 64 FPH; WOB:35/38K; GPM:500; SURF RPMS:95; PP:2013; DIFF:275; ON BOTTOM TOQ:11.5K; OFF BOTTOM TOQ:3.2K; P/U:131K; S/O:78K; R/T:104K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90' ACC PSI:2910, ANN PSI:1430, MANI PSI:1500,SPRs @ 5240' MW=10; (MP1 20-126,40-191,60-274; MP2 20-130,40-207, 60-280);

10:00 R/DRLG LATERAL F/5485' - T/5796' = 311' @ 77.6 FPH; WOB:35/38K; GPM:600; SURF RPMS:95; PP:2430; DIFF:310; ON BOTTOM TOQ:12.5K; OFF BOTTOM TOQ:4K; P/U:139K; S/O:60K; R/T:109K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90'CLOSED LOOP F/12:00 T/13:00 NO G/L

14:00 R/DRLG LATERAL F/5485' - T/6100' = 304' @ 76 FPH; WOB:38K;

GPM:600; SURF RPMS:95; PP:2754; DIFF:370; ON BOTTOM TOQ:13K; OFF BOTTOM TOQ:3.5K; P/U:154K; S/O:62K; R/T:115; PUMP 10 BBL HIGH VIS SWEEP EVERY 90

18:00 R/DRLG LATERAL F/6100' - T/6465' = 365' @ 91 FPH; WOB:38K; GPM:600; SURF RPMS:90; PP:2450; DIFF:200; ON BOTTOM TOQ:17.5K; OFF BOTTOM TOQ:5K; P/U:158K; S/O:70K; R/T:120K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90, ACC PSI:3070, ANN PSI:1430, MANI PSI:1400,

22:00 SERVICE RIG (TDS & DRAW WORKS)

22:30 R/DRLG LATERAL F/6465' - T/6804' = 339' @ 84 FPH; WOB:38K; GPM:600; SURF RPMS:90; PP:2900; DIFF:200; ON BOTTOM TOQ:18K; OFF BOTTOM TOQ:7.5K; P/U:160K; S/O:75K; R/T:123K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90, CLOSED LOOP FOR 1 HR, NO G/L

02:30 R/DRLG LATERAL F/6804' - T/7077' = 273' @ 78 FPH; WOB:40K; GPM:600; SURF RPMS:80; PP:2900; DIFF:200; ON BOTTOM TOQ:18K; OFF BOTTOM TOQ:7.5K; P/U:160K; S/O:75K; R/T:125K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90, SPRs @ 6942' MW=10; (MP1 20-185,40-200,60-270; MP2 20-165,40-210, 60-300);

Vis (s/qt): 28, Dens (lb/gal): 10.00, pH: 9.8

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
5,224.0	4,809.98	90.28	167.26	737.96	8.99	-717.02	174.59
5,316.0	4,809.14	90.77	163.70	829.90	3.91	-806.03	197.65
5,407.0	4,807.87	90.83	164.12	920.79	0.47	-893.46	222.87
5,498.0	4,806.60	90.77	165.35	1,011.74	1.35	-981.24	246.83
5,589.0	4,805.31	90.86	166.46	1,102.72	1.22	-1,069.49	268.99
5,681.0	4,804.00	90.77	168.90	1,194.68	2.65	-1,159.34	288.62
5,774.0	4,802.47	91.11	170.20	1,287.53	1.44	-1,250.78	305.49
5,864.0	4,800.82	90.99	170.97	1,377.29	0.87	-1,339.55	320.21
5,955.0	4,799.22	91.02	172.16	1,467.92	1.31	-1,429.55	333.56
6,061.0	4,797.40	90.95	170.98	1,573.50	1.12	-1,534.38	349.10
6,151.0	4,795.76	91.14	169.98	1,663.26	1.13	-1,623.12	363.98
6,241.0	4,794.12	90.95	168.39	1,753.14	1.78	-1,711.50	380.86
6,332.0	4,792.66	90.89	168.17	1,844.09	0.25	-1,800.59	399.34
6,422.0	4,791.24	90.92	166.28	1,934.06	2.10	-1,888.34	419.24
6,512.0	4,789.58	91.20	164.04	2,024.00	2.51	-1,975.31	442.29
6,602.0	4,787.77	91.11	161.52	2,113.77	2.80	-2,061.24	468.93
6,692.0	4,786.12	90.99	158.30	2,203.12	3.58	-2,145.72	499.84
6,782.0	4,784.60	90.95	158.77	2,292.24	0.52	-2,229.47	532.77
6,872.0	4,783.15	90.89	156.77	2,381.17	2.22	-2,312.76	566.81
6,962.0	4,781.70	90.95	156.04	2,469.75	0.81	-2,395.22	602.83

06/21/2015

Rig Name: H&P 361

Depth = 8,109.0 Progress = 1032.0

06:00 R/DRLG LATERAL F/7077' - T/7342' = 265' @ 66.3 FPH; WOB:38/40K; GPM:600; SURF RPMS:85/95; PP:2905; DIFF:325; ON BOTTOM TOQ:17K; OFF BOTTOM TOQ:7K; P/U:166K; S/O:56K; R/T:116K; PUMP 10 BBL HIGH VIS SWEEP

EVERY 90,ACC:2820, ANN: 1370, MANI: 1510, SPRs @ 7115' MW=10; (MP1 20-192,40-240,60-336; MP2 20-189,40-2235, 60-321);

10:00 R/DRLG LATERAL F/7342' - T/7570' = 228' @ 65.14 FPH; WOB:38/40K; GPM:602; SURF RPMS:80/95; PP:2970; DIFF:325; ON BOTTOM TOQ:17K; OFF BOTTOM TOQ:7K; P/U:173K; S/O:54K; R/T:118K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,CLOSED LOOP 1HR NO G/L

13:30 SERVICE RIG (CHANGE OUT HOIST LINE & SERVICE TDS & DRAW WORKS)

14:00 R/DRLG LATERAL F/7570' - T/7798' = 228' @ 57 FPH; WOB:40K; GPM:602; SURF RPMS:80/95; PP:2905; DIFF:300; ON BOTTOM TOQ:17K; OFF BOTTOM TOQ:8.5K; P/U:170K; S/O:54K; R/T:121K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,

18:00 R/DRLG LATERAL F/7798' - T/8065' = 267' @ 66 FPH; WOB:38/40K; GPM:602; SURF RPMS:80/95; PP:2900; DIFF:200; ON BOTTOM TOQ:20K; OFF BOTTOM TOQ:10K; P/U:160K; S/O:75K; R/T:125K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,ACC:3020, ANN: 1260, MANI: 1510,

22:00 R/DRLG LATERAL F/8065' - T/8109' = 44' @ 22 FPH; WOB:38/40K; GPM:602; SURF RPMS:80/95; PP:2970; DIFF:325; ON BOTTOM TOQ:17K; OFF BOTTOM TOQ:7K; P/U:173K; S/O:54K; R/T:118K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,TALKED WITH FORGE MANAGEMENT DISCUSSED ROP SLOWING DOWN DECIDED TO PERFORM CLEAN UP CYCLE FOR TOO H TO CHANGE OUT AUTO TRAC FOR CONVENTIONAL ASSEMBLY

00:00 CIRCULATE PUMP 3-40 BBLs HIGH VIS SWEEPS WITH K&M CLEAN UP CYCLE, ROTATE @ 80 RPM'S 450 GPM WORKING PIPE @ 150FPH, DOWN LINK TO CENTER MODE, LAYING DOWN 1 JT EVERY 30 MINUTES

04:00 CHECK FLOW WELL STATIC,TOOH FOR BIT F/7777' T/6100' SETTING LOAD LIMITER @ 30K OVER PICK UP WT.RESETTING LIMITER EVERY 10 JTS.

Vis (s/qt): 29, Dens (lb/gal): 9.90, pH: 10.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,052.0	4,780.21	90.95	158.75	2,558.57	3.01	-2,478.27	637.42
7,142.0	4,778.74	90.92	161.19	2,647.95	2.71	-2,562.80	668.24
7,232.0	4,776.86	91.48	160.67	2,737.50	0.85	-2,647.84	697.64
7,322.0	4,774.83	91.11	162.44	2,827.12	2.01	-2,733.18	726.11
7,413.0	4,773.22	90.92	163.91	2,917.94	1.63	-2,820.26	752.45
7,593.0	4,770.17	91.02	168.85	3,097.75	2.74	-2,995.01	794.82
7,683.0	4,768.69	90.86	171.60	3,187.53	3.06	-3,083.67	810.10
7,773.0	4,767.12	91.14	172.40	3,277.11	0.94	-3,172.78	822.62
7,863.0	4,765.55	90.86	173.34	3,366.54	1.09	-3,262.07	833.79
7,953.0	4,764.29	90.74	171.54	3,456.05	2.00	-3,351.27	845.63
8,043.0	4,762.98	90.93	172.33	3,545.64	0.90	-3,440.37	858.26

06/22/2015

Rig Name: H&P 361

Depth = 8,109.0 Progress = 0.0

06:00 FINISH TOO H F/6100'T/517', MONITOR WELL WITH TRIP TANK, CHECK

FOR FLOW @ SURFACE SHOE WELL STATIC, SET LOAD LIMITER @ 30K
OVER PICK UP WT., RESETTING LIMITER EVERY 10 JTS.ACC:2970,
MAN:1470, ANN:1360 PSI, AGITATOR ARRIVED @ 09:30

09:30 REMOVE ROTATING HEAD (ANNULAR CLOSED)

10:00 TOO H F/517' T/181',MONITOR WELL WITH TRIP TANK,

10:30 PUMP FRESH WATER THROUGH AUTO TRAC ASSEMBLY, L/D AUTO TRAC
ASSEMBLY F/181' T/BIT BREAK BIT W/ST-80 (BLINDS CLOSED) GRADE BIT
4,3,CT,SH,I,WT,

11:30 CLEAN & CLEAR RIG FLOOR OFF,LOAD NEW BHA ON PIPE WRANGLER

12:00 PICK UP MUD MOTOR & MWD & TEST (GOOD) L/D MWD MAKE UP BIT TO
MUD MOTOR WITH BLINDS CLOSED, PICK UP MWD & SCRIBE, FINISH
PICKING UP CONVENTIONAL BHA

14:00 INSTALL ROTATING HEAD

14:30 TIH F/113' T/1817' MONITORING DISPLACEMENT WITH TRIP TANK

16:00 SLIP & CUT 80' DRILLING LINE & CALIBRATE BLOCKS

17:30 SERVICE RIG & LUBE TDS

18:00 CONTINUE TIH F/1817'T/5416' MONITOR DISPLACEMENT WITH TRIP TANK
(CHECK CROWN SAVER)

21:30 WHILE DOPING DP WHEN TIH THE BRUSH END OF DOPE BRUSH BROKE
OFF GOING DOWN DP. NOTIFIED CO. MAN WE TRIED TO FILL PIPE UP
WITH WATER HOSE TO SEE IF BRUSH WOULD FLOAT BACK UP THE DP.
WHILE ATTEMPTING TO PIPE WITH WATER CALLED FORGE
MANAGEMENT DISCUSSED LETTING WATER RUN FOR 10 MORE
MINUTES IF DP DIDN'T FILL UP,WE WOULD HAVE TO PULL BACK OUT TO
THE AGITATOR.

22:30 TOO H LOOKING FOR DOPE BRUSH F/5416' T/2100' RETRIEVED DOPE
BRUSH OUT OF AGITATOR

01:00 TIH F/2100'T/5416'MONITORING WELL DISPLACEMENT WITH TRIP TANK

03:00 TIH F/5416' T/7856' MONITORING WELL DISPLACEMENT WITH TRIP TANK
DP STARTED STACKING OUT @ 40K & GETTING STICKY TOLD DRILLER
TO START WASHING DP DOWN

05:30 WASH F/7856' T/8109' WITH 40 RPM'S & 350 GPM

Vis (s/qt): 29, Dens (lb/gal): 9.85, pH: 9.5

06/23/2015

Rig Name: H&P 361

Depth = 9,170.0 Progress = 1061.0

06:00 CHECK SHOT SURVEY, SPR @ 8105'W/10 WT. 29 VIS MP #1 20/170,40/219,
60/374, MP #2 20/172, 40/221, 60/381

06:30 R/DRLG LATERAL F/8109' - T/8131' = 22' @ 44 FPH; WOB:10/25K; GPM:600;
SURF RPMS:60; SPM:254, PP:3585; DIFF:525; ON BOTTOM TOQ:17K; OFF
BOTTOM TOQ:7K; P/U:173K; S/O:54K; R/T:118K; PUMP 10 BBL HIGH VIS
SWEEP EVERY 90,ACC:2960, MAN:1600, ANN:1360 PSI

07:00 S/DRLG LATERAL F/8131' - T/8152' = 21' @ 14 FPH; WOB:10/25K; GPM:450; SPM:190, PP:2120; DIFF:205; P/U:160K; S/O:74K; R/T:120K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,

08:30 R/DRLG LATERAL F/8152' - T/8232' = 80' @ 53.3 FPH; WOB:30K; GPM:575; SURF RPMS:75; SPM:254, PP:3185; DIFF:512; ON BOTTOM TOQ:14K; OFF BOTTOM TOQ:7K; P/U:163K; S/O:51K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,

10:00 S/DRLG LATERAL F/8232' - T/8256' = 24' @ 24 FPH; WOB:27K; GPM:575; SPM:244, PP:3228; DIFF:195; P/U:163K; S/O:51K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,

11:00 R/DRLG LATERAL F/8256' - T/8311' = 55' @ 55 FPH; WOB:35K; GPM:400/575; SURF RPMS:75; SPM:170/254, PP:1865/3587; DIFF:389/501; ON BOTTOM TOQ:14K; OFF BOTTOM TOQ:7K; P/U:163K; S/O:51K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90, #1 PUMP OFF HOLE CHANGING OUT PACKING F/11:00 T/11:30

12:00 S/DRLG LATERAL F/8311' - T/8335' = 24' @ 24 FPH; WOB:30K; GPM:575; SPM:244, PP:3211; DIFF:305; P/U:163K; S/O:51K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,CLOSED LOOP FOR 1 HR. NO G/L

13:00 R/DRLG LATERAL F/8335' - T/8456' = 121' @ 121 FPH; WOB:35K; GPM:575; SURF RPMS:75; SPM:254, PP:3587; DIFF:501; ON BOTTOM TOQ:16K; OFF BOTTOM TOQ:7K; P/U:172K; S/O:50K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90

14:00 TROUBLE SHOOTING MWD & ATTEMPT SURVEY

15:00 S/DRLG LATERAL F/8456' - T/8494' = 38' @ 25.3 FPH; WOB:42K; GPM:575; SPM:254, PP:3211; DIFF:402; P/U:172K; S/O:51K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,

17:00 R/DRLG LATERAL F/8494' - T/8549' = 55' @ 110 FPH; WOB:28K; GPM:575; SURF RPMS:75; SPM:254, PP:3602; DIFF:495; ON BOTTOM TOQ:15K; OFF BOTTOM TOQ:7K; P/U:175K; S/O:50K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90

17:30 S/DRLG LATERAL F/8549' - T/8625' = 76' @ 19 FPH; WOB:42K; GPM:575; SPM:254, PP:2095; DIFF:135; P/U:172K; S/O:50K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,ACC:3050, MAN:1610, ANN:1470 PSI

21:30 R/DRLG LATERAL F/8625' - T/8716' = 91' @ 60.7 FPH; WOB:27K; GPM:560; SURF RPMS:75; SPM:238, PP:3550; DIFF:700; ON BOTTOM TOQ:15.5K; OFF BOTTOM TOQ:9K; P/U:176K; S/O:55K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90

23:00 S/DRLG LATERAL F/8716' - T/8736' = 20' @ 40 FPH; WOB:42K; GPM:575; SPM:254, PP:3000; DIFF:150; P/U:174K; S/O:55K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,

23:30 R/DRLG LATERAL F/8736' - T/8891' = 115' @ 77 FPH; WOB:27K; GPM:560; SURF RPMS:75; SPM:238, PP:3600; DIFF:630; ON BOTTOM TOQ:16K; OFF BOTTOM TOQ:10K; P/U:175K; S/O:50K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90, CLOSED LOOP FOR 1 HR. NO G/L

- 01:30 S/DRLG LATERAL F/8891' - T/8906' = 15' @ 30 FPH; WOB:30K; GPM:575; SPM:254, PP:3000; DIFF:300; P/U:174K; S/O:59K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,
- 02:00 R/DRLG LATERAL F/8906' - T/9031' = 125' @ 83 FPH; WOB:27K; GPM:560; SURF RPMS:75; SPM:238, PP:3600; DIFF:630; ON BOTTOM TOQ:16K; OFF BOTTOM TOQ:10K; P/U:175K; S/O:50K; R/T:119K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,
- 03:30 S/DRLG LATERAL F/9031' - T/9042' = 11' @ 22 FPH; WOB:30K; GPM:575; SPM:254, PP:3000; DIFF:300; P/U:174K; S/O:59K; R/T:122K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,
- 04:00 R/DRLG LATERAL F/9042' - T/9120' = 78' @ 78 FPH; WOB:30K; GPM:560; SURF RPMS:75; SPM:238, PP:3600; DIFF:450; ON BOTTOM TOQ:16K; OFF BOTTOM TOQ:10K; P/U:175K; S/O:57K; R/T:122K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,
- 05:00 RIG SERVICE (SERVICE TDS,DRAW WORKS,TROUBLE SHOOT TILT LINKS)
- 05:30 R/DRLG LATERAL F/9120' - T/9170' = 50' @ 100 FPH; WOB:30K; GPM:560; SURF RPMS:75; SPM:238, PP:3600; DIFF:450; ON BOTTOM TOQ:16K; OFF BOTTOM TOQ:10K; P/U:175K; S/O:57K; R/T:122K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90,

Vis (s/qt): 29, Dens (lb/gal): 10.05, pH: 9.8

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
8,125.0	4,761.39	91.29	172.68	3,627.19	0.61	-3,521.65	868.95
8,215.0	4,758.59	92.28	172.15	3,716.66	1.25	-3,610.81	880.82
8,305.0	4,755.57	91.57	170.41	3,806.29	2.09	-3,699.71	894.46
8,405.0	4,751.37	93.24	170.30	3,905.97	1.67	-3,798.20	911.20
8,485.0	4,748.53	90.83	169.42	3,985.77	3.21	-3,876.88	925.27
8,575.0	4,747.20	90.86	168.14	4,075.68	1.42	-3,965.14	942.78
8,665.0	4,746.38	90.18	165.91	4,165.65	2.59	-4,052.82	962.99
8,755.0	4,745.08	91.48	164.68	4,255.61	1.99	-4,139.85	985.83
8,846.0	4,742.31	92.01	164.43	4,346.51	0.64	-4,227.52	1,010.05
8,936.0	4,740.06	90.86	165.07	4,436.43	1.46	-4,314.32	1,033.71
9,026.0	4,738.85	90.68	165.34	4,526.40	0.36	-4,401.33	1,056.69
9,116.0	4,738.56	89.69	165.79	4,616.38	1.21	-4,488.48	1,079.12

06/24/2015

Rig Name: H&P 361

Depth = 9,393.0 Progress = 223.0

- 06:00 R/DRLG LATERAL F/9170' - T/9393' = 223' @ 111.5 FPH; WOB:30K; GPM:560; SURF RPMS:75; SPM:238, PP:3569; DIFF:480; ON BOTTOM TOQ:15K; OFF BOTTOM TOQ:10K; P/U:175K; S/O:57K; R/T:122K; PUMP 10 BBL HIGH VIS SWEEP EVERY 90, SPR:9200', 9.9 MWT, MP#1 20/186, 40/242, 60/396, MP#2 20/179, 40/235, 60/383, ACC:3080, MAN:1650, ANN:1300
- 08:00 CIRCULATE & CLEAN HOLE PER K&M RECOMMENDATION & PUMP 4-40 BBL. HIGH VIS SWEEPS @ 80 RPM, 550 GPM & RECIPROCATATE PIPE @ 250

FPH LAYING 1 JT DOWN PER HOUR.CHECK WELL FOR FLOW WELL
 STATIC, COUNT DP 63 ON SURFACE 179 IN HOLE= 242 TOTAL DP

14:30 TOO H L/D DP F/9260'T/4904' P/UP 205K, S/O: 51,RT:119, MONITOR WELL
 W/TRIP TANK,SETTING LOAD LIMITER EVERY 10 JTS @ 30K OVER,

18:00 TOO H L/D DP F/4904'T/1823' P/UP 115K, MONITOR WELL W/TRIP
 TANK,SETTING LOAD LIMITER EVERY 10 JTS @ 30K OVER,

20:00 REMOVE ROTATING HEAD & INSTALL TRIP NIPPLE CHECK FOR FLOW @
 SHOE WELL STATIC

20:30 CONTINUE TOO H F/1823' T/113' MONITOR WELL W/TRIP TANK,

21:30 L/D DIRECTIONAL TOOLS & BIT GRADE BIT @ 1-3-CT-S-X-WT-TD

22:00 PICK UP JT. OF DP PULL WEAR BUSHING

22:30 PJSM W/RIG CREW RIG MANAGER, CRT TECH & CO. MAN ON RIGGING UP
 H&P CRT TOOL & RIG UP CRT.W/CRT TECH HYDRO LIN,ANTI ROTATION
 BRACE,REMOVE DP ELEVATORS,ADJUST TDS TO CENTER CRT OVER
 HOLE,CALIPER ELEVATORS ID:5.625" COLLAR OD:6"(2 POINT CALIBRATE
 BLOCKS)

01:30 MAKE UP SHOE TRACK & RUPTURE DISC SUB PUMP THROUGH (OK) RUN
 67 JTS. 5.5" 17# L-80 BTC DISPLACING OVER SHAKERS

Vis (s/qt): 29, Dens (lb/gal): 10.08, pH: 8.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
9,206.0	4,739.29	89.38	165.82	4,706.37	0.35	-4,575.73	1,101.19
9,296.0	4,741.14	88.27	164.61	4,796.32	1.82	-4,662.72	1,124.15
9,339.0	4,742.25	88.76	164.88	4,839.28	1.30	-4,704.19	1,135.46
9,393.0	4,743.42	88.76	164.88	4,893.24	0.00	-4,756.31	1,149.54

06/25/2015

Rig Name: H&P 361

Depth = 9,393.0 Progress = 0.0

06:00 RUN 12 JTS. 5.5" 17# L-80 BTC TO 3561', DRILLER WAS HAVING TROUBLE
 STINGING INTO CASING.

07:30 SERVICE RIG (LEVEL & PLANE DERRICK)

08:00 RUN TOTAL OF 209 JTS. 5.5" 17# L-80 BTC & 3 SHORT JOINTS (9224'; 7293',
 4126'), SLB RUPTURE DISC @ 9247'; FLOAT COLLAR @ 9340'; SHOE @ 9387'.

18:00 CIRCULATE AND CONDITION WHILE PJSM WITH HALLIBURTON, REVIEW
 CEMENTING PLAN AND SAFETY PLAN; FINISHING MAKING UP
 CEMENTING LINE TO MUD LINE TIE IN. TEST LINES TO 3000 PSI, TEST
 GOOD. AND PUMP CEMENT JOB AS FOLLOW: 20 BBL FW SPACER WITH
 RED DYE, 20 BBL GEL SPACER; LEAD SLURRY: VERSACEM, 740 SKS, 358
 BBLS, 2.721 CUFT/SK, 11.5 PPG, 15.95 GAL/SK, 162 % OH EXCESS; TAIL
 SLURRY: VERSACEM, 1280 SKS, 295 BBLS, 1.295 CUFT/SK, 14.8 PPG, 5.84
 GAL/SK, 25% OH EXCESS; DISENGAGE FROM CRT AND DROP LATCH
 STYLE PLUG, DISPLACE WITH 2000 GALLONS (47.6 BBLS) OF 10% MSA
 ACID AND 170 BBLS FW. BUMP PLUG @ 1345 PSI, HOLD 500 OVER FOR 5
 MINS, RELEASE PRESSURE AND HAD 2 BBLS BACK FROM LINES, FLOATS

HELD, DURING JOB HAD APPROX 100 % RETURNS, SAW
APPROXIMATELY 40 BBLS OF CEMENT TO SURFACE OR 83 SKS.

21:30 FLUSH LINES WITH SUGAR WATER, REMOVE TURN BUCKLES AND FLOW
LINE, N/D BOPE WITH BATTLE N/D CREW. L&M ROUSTABOUTS ON
LOCATION RIGGING DONE THE FLARE LINE, PVC, ASSISTING
DERRICKMAN AND MOTOR MAN. VACUUM TRUCK SUCKING CUTTINGS
OUT OF PITS WHILE JETTING AND CLEANING.

23:00 SET SLIPS WITH 100K LBS WITH CACTUS SLIP HAND, CUT CASING AND
L/D SAME, L/D BOPE WITH WRANGLER, INSTALL B SECTION AND TEST
TO 5000 PSI, HELD FOR 15 MINUTES, TESTED GOOD. CLOSE ALL VALVES
ON WELL. SAFETY BREAK AND PJSM FOR RIG DOWN CRT, L/D CRT.
SIMULTANEOUSLY JETTING AND CLEANING PITS, SUCK CUTTING FROM
PITS WITH VACUUM TRUCK. RELEASE RIG @ 02:00 6/25/2015. RR - RR =
10.96 DAYS. (WELL BONUS ACHIEVED)