

FORGE Energy
UL 14 Conway 3421H
API Number: 42-003-46897

10/11/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location is cleared for permitting and construction
Directions: From 385 and 1967, go west on 1967 for 8 miles, turn north on caliche road, go 1.3 miles, turn east, second location on left.

10/29/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location Construction
Clear and level Pad and pits

10/30/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction
Pits are 70% complete, pad is 20% complete

10/31/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction
Pits are 95% complete, pad is 80% complete

11/04/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location Construction
Pits and pad are complete

11/05/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location Construction
Set 80'X16: conductor

11/06/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location Construction
Lined pits, installed barbed wire fence, laid poly pipe, and install landing ring.
Start fresh and brine water in pits

11/08/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Line pits, install barbed wire fence and lay poly pipe

11/13/2014

Rig Name:

Depth = 0.0 Progress = 0.0

04:00 RIGGING DOWN RIG & WAITING ON DAYLIGHTS & H & P TRUCKING

11/14/2014

Rig Name: H&P 348

Depth = 0.0 Progress = 0.0

06:00 RIGGING DOWN, WAITING ON DAYLIGHTS & H&P TRUCKING

07:30 SAFETY MEETING W/ H&P TRUCKING

08:00 MOVE RIG 3 MILES TO THE UL 14 CONWAY 3421H; SUB LOWERED @ 15:00; DERRICK LOWERED @ 16:00;

16:00 HAUL DERRICK & SUB TO NEW LOCATION & RELEASE TRUCKS

18:00 WAIT ON DAYLIGHTS & H&P TRUCKING; HANDS PUT MUD PUMPS TOGETHER; ORGANIZE HOUSES;

11/15/2014

Rig Name: H&P 348

Depth = 0.0 Progress = 0.0

06:00 RIGGING UP; WAITING ON DAYLIGHTS & H&P TRUCKING;

07:30 SAFETY MEETING W/ H&P TRUCKING

08:00 SET SUB OVER THE HOLE @ 9:00; DERRICK UP @ 10:00; RAISED SUB @ 13:00; SCOPED OUT DERRICK @ 15:00;

15:00 RIG UP RIG 100%; RE STRING DERRICK; REPLACE ROLLERS ON PIPE WRANGLER; UN DOCK TOP DRIVE; R/U FLOW LINE , CONDUCTOR, TURNBUCKLES & STAGE BHA; PRE SPUD INSPECTION;

00:00 TROUBLE SHOOT DRAW WORKS & JOY STICK W/ELECTRICIAN FOUND 10 VOLT POWER SUPPLY NOT GETTING POWER, FIXED POWER SUPPLY & DRAWWORKS WORKING AS DESIGNED

04:00 TEST FLOOR VALVES, TOPDRIVE, STAND PIPE BACK TO PUMPS 250 LOW & 3000 HIGH; TEST STANDPIPE 3500 PSI FOR HALLIBURTON;

11/16/2014

Rig Name: H&P 348

Depth = 1,853.0 Progress = 1761.0

06:00 TEST STAND PIPE FOR HALLIBURTON & RIG DOWN TESTER

07:00 REMOVE CLAMP & REPLACE CORROSION RING W/ NEW ONE & CLEANED FLOOR

08:00 P/U & M/U BIT, BHA & INPETRO TOOLS; TEST TOOLS (GOOD) & TIH F/SURFACE T/92'

11:30 ROT DRLG F/92' T/415' =323' @ 81 FPH; WOB 26; RPM 100; GPM 750; PP 1600; P/U 56; S/O 54; ROT 55; ON BOTTOM TQ 4; OFF BOTTOM TQ 2;

15:30 ROT DRLG F/415' T/854' =439' @ 176 FPH; WOB 30-20; RPM 150; GPM 750; PP 1950; P/U 74; S/O 70; ROT 72; ON BOTTOM TQ 8; OFF BOTTOM TQ 3; (CLOSE LOOP @ 800' START MIXING STARCH)

18:00 ROT DRLG F/854' T/1380' =526' @ 131 FPH; WOB 20-5; RPM 150; GPM 750; PP 1950; P/U 84; S/O 79; ROT 81; ON BOTTOM TQ 10; OFF BOTTOM TQ 2;

22:00 ROT DRLG F/1380' T/1853' =526' @ 131 FPH; WOB 10-5; RPM 150; GPM 750; PP 2300; P/U 92; S/O 86; ROT 89; ON BOTTOM TQ 7; OFF BOTTOM TQ 2;

03:00 CIRCULATE & CONDITION HOLE (PUMPED 3- 40 BBL 60 VIS SWEEPS)

Vis (s/qt): 28, Dens (lb/gal): 8.38, pH: 8.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
156.0	0.00	0.31	212.29	0.00	0.00	0.00	0.00
307.0	0.00	0.79	237.51	0.00	0.00	0.00	0.00
491.0	0.00	0.88	233.60	0.00	0.00	0.00	0.00
674.0	0.00	1.41	229.78	0.00	0.00	0.00	0.00
827.0	0.00	2.02	226.31	0.00	0.00	0.00	0.00
962.0	0.00	2.29	227.01	0.00	0.00	0.00	0.00
1,052.0	0.00	2.59	227.01	0.00	0.00	0.00	0.00
1,188.0	0.00	3.12	229.51	0.00	0.00	0.00	0.00
1,368.0	0.00	3.69	230.61	0.00	0.00	0.00	0.00
1,549.0	0.00	2.81	238.30	0.00	0.00	0.00	0.00
1,729.0	0.00	2.81	241.69	0.00	0.00	0.00	0.00
1,819.0	0.00	2.59	239.71	0.00	0.00	0.00	0.00

11/17/2014

Rig Name: H&P 348

Depth = 1,853.0 Progress = 0.0

06:00 CIRCULATE & CONDITION HOLE TILL CLEAN

07:00 TOO H F/1853 T/SURFACE (NORMAL DRAG WITH ONE NORMAL TIGHT SPOT @ 950')

11:00 LAY DOWN DIRECTIONAL TOOLS & BREAK BIT W/ SCORPION GRADE BIT 1-1-1-1-1-1-1 (NO CHIPS CUTTERS OR CRACKS)

12:00 CLEAN FLOOR & SAFETY MEETING ON RIGGING UP CRT TOOL

13:00 RIG UP CRT TOOL, HYDRAULIC SLIPS & CALIBRATE CRT TOOL;SAFETY MEETING ON RUNNING CASING;

14:00 RUN 43 JTS OF 9 5/8 36# J-55 LTC; SHOE SET @ 1843',FC @ 1798' & CENTRALIZERS ON EVERY OTHER JOINT;

21:00 CIRCULATE & CONDITION HOLE & SAFETY MEETING & RIG UP CEMENTERS

23:00 TEST LINES T/3000 PSI; PUMP 20 BBLS FRESH WATER SPACER; 20 BBLS RED DYE GEL SPACER; 750 SKS; 247 BBLS; 12.9 WT; LEAD CEMENT; PUMPED 130 SKS; 31 BBLS; 14.8 WT; TAIL CEMENT; DISPLACE 139 BBLS FRESH WATER; BUMPED PLUG 729 PSI RAISED T/ 1316 ; FLOAT HELD F/ 5

MIN; GOT BACK 1 BBLS FROM LINES; CIRCULATED 74 BBLS; 230 SKS
 BACK TO SURFACE; FULL RETURNS TREW OUT THE JOB;

01:00 RIG DOWN CEMENTERS & WASH OUT & DRAIN LINES,SHAKERS &
 VALVES;

01:30 BACK OUT LANDING JOINT; REMOVE CONDUCTOR, FLOW LINE, RISE
 ADAPTER; DRESS CASING HEAD & INSTALL THREADED FLANGE;

04:00 RIG DOWN CRT TOOL

05:00 NIPPLE UP BOP & TEST T/250 LOW & 3000 HIGH.

Vis (s/qt): 32, Dens (lb/gal): 9.20, pH: 8.3

11/18/2014

Rig Name: H&P 348

Depth = 2,634.0 Progress = 781.0

06:00 NIPPLE UP BOP & RIG UP TESTER

11:00 TEST BOP (250 LOW F/5 MIN & 3000 HIGH F/10 MIN) TEST CASING 1500 PSI
 30 MIN; RIG DOWN TESTER

14:00 INSTALL WEAR BUSHING & CLEAN FLOOR

15:00 M/U BIT W/ SCORPION ; P/U DIRECTIONAL TOOLS & SURFACE TEST
 TOOLS; TIH F/SURFACE T/1787;

21:00 DRLG CEMENT F/1787' T/1853'

22:30 ROT DRLG F/1853' T/2089' =236' @ 79 FPH; WOB 28; RPM 100; GPM 400; PP
 900; DIFF 350; P/U 70; S/O 65; ROT 67; ON BOTTOM TQ 7; OFF BOTTOM TQ
 2;(ANN 1510 MAN 1590 ACC 2900)

01:30 RAN DIAGNOSTICS GAMMA SHOWED NO VALUES;HARD RESET; SWAP
 PUMPS; TROUBLE SHOOT SURFACE GEAR;

02:00 ROT DRLG F/2089' T/2634' =545' @ 136 FPH; WOB 30; RPM 100; GPM 600; PP
 1600; DIFF 400; P/U 75; S/O 71; ROT 73; ON BOTTOM TQ 6; OFF BOTTOM TQ
 2; (CLOSE LOOP 1 HOUR NO LOSSES OR GAINS)

Vis (s/qt): 28, Dens (lb/gal): 9.93, pH: 8.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
1,887.0	1,885.53	1.01	239.71	-25.23	2.32	-38.21	-51.25
2,067.0	2,065.52	0.12	208.46	-25.83	0.50	-39.18	-52.71
2,248.0	2,246.52	0.11	160.90	-26.19	0.06	-39.55	-52.73
2,428.0	2,426.52	0.11	80.69	-26.42	0.09	-39.73	-52.49

11/19/2014

Rig Name: H&P 348

Depth = 4,155.0 Progress = 1521.0

06:00 ROT DRLG F/2634' T/3165' =531' @ 132 FPH; WOB 30; RPM 100; GPM 600; PP
 1700; DIFF 270; P/U 86; S/O 80; ROT 83; ON BOTTOM TQ 4; OFF BOTTOM TQ
 2; SAFETY HUDDLE DISCUSS: TRIP HAZARDS;

10:00 ROT DRLG F/3165' T/3671' =506' @ 127 FPH; WOB 31; RPM 100; GPM 600; PP
 1750; DIFF 215; P/U 97; S/O 88; ROT 91; ON BOTTOM TQ 6; OFF BOTTOM TQ
 2; SAFETY HUDDLE DISCUSS: PDS BUFFER ZONE; CLOSED LOOP 1 HR. NO

GAINS/LOSSES;

- 14:00 ROT DRLG F/3671' T/4024' =353' @ 118 FPH; WOB 30; RPM 100; GPM 600; PP 1850; DIFF 440; P/U 100; S/O 91; ROT 96; ON BOTTOM TQ 7; OFF BOTTOM TQ 3; SAFETY HUDDLE DISCUSS: STAYING FOCUSED;
- 17:30 RIG SERVICE & CHANGE OIL IN GENERATORS;
- 18:00 CONTROL DRLG UPPER CURVE F/4024' T/4155' =131' @ 37 FPH; WOB 32; RPM 60; GPM 575; PP 1700; DIFF 300; P/U 102; S/O 94; ROT 98; ON BOTTOM TQ 5; OFF BOTTOM TQ 2; SAFETY HUDDLE DISCUSS: BUFFER ZONE AWARENESS;
- 21:30 WEAK SIGNAL FROM MWD, TROUBLE SHOOT: CHECKED PULSER; PUMPED 30 BBL HI VIS SWEEP TO FLUSH POSSIBLE DEBRI FROM TOOL; EXECUTED HARD RESET & VARIATION OF DOWN LINKS; UNABLE TO RESTORE GOOD SIGNAL.
- 23:30 T.O.H. F/4155' T/SURFACE; L/D ATRAK; MWD & LCP; P/U NEW ATRAK; MWD & LCP; SURFACE TEST; M/U BIT & T.I.H T/829'

Vis (s/qt): 28, Dens (lb/gal): 10.08, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
2,609.0	2,607.52	0.11	163.87	-26.61	0.08	-39.87	-52.27
2,790.0	2,788.52	0.20	43.29	-26.61	0.15	-39.81	-52.01
2,970.0	2,968.52	0.14	69.04	-26.42	0.05	-39.50	-51.59
3,151.0	3,149.52	0.06	67.71	-26.37	0.04	-39.38	-51.30
3,332.0	3,330.52	0.22	33.25	-26.12	0.10	-39.05	-51.02
3,513.0	3,511.52	0.04	150.06	-25.94	0.13	-38.81	-50.80
3,694.0	3,692.52	0.09	49.86	-25.94	0.06	-38.77	-50.66
3,874.0	3,872.52	0.20	207.98	-26.11	0.16	-38.98	-50.68
4,010.0	4,008.52	0.11	92.11	-26.33	0.20	-39.19	-50.66
4,040.0	4,038.52	1.16	340.74	-26.03	4.01	-38.90	-50.73
4,070.0	4,068.49	3.37	344.97	-24.84	7.38	-37.76	-51.06
4,100.0	4,098.38	5.98	345.34	-22.39	8.70	-35.40	-51.68

11/20/2014

Rig Name: H&P 348

Depth = 4,866.0 Progress = 711.0

- 06:00 TIH F/829' T/4155'; SAFETY HUDDLE DISCUSS: EQUIPMENT OPERATIONS & MULTI-TASKING;
- 09:00 BREAK CIRCULATION & DOWNLINK;
- 10:00 CONTROL DRLG UPPER CURVE F/4155' T/4294' =139' @ 35 FPH; WOB 30; RPM 65; GPM 575; PP 1700; DIFF 300; P/U 111; S/O 90; ROT 100; ON BOTTOM TQ 5; OFF BOTTOM TQ 2; SAFETY HUDDLE DISCUSS: TRAPPED PRESSURE
- 14:00 CONTROL DRLG UPPER CURVE F/4294' T/4441' =147' @ 42 FPH; WOB 30; RPM 65; GPM 575; PP 1765; DIFF 300; P/U 111; S/O 90; ROT 104; ON BOTTOM TQ 5; OFF BOTTOM TQ 2; SAFETY HUDDLE DISCUSS: SLIPS, TRIPS & FALLS;
- 17:30 RIG SERVICE

- 18:00 CONTROL DRLG UPPER CURVE F/4441' T/4575' =134' @ 33.5 FPH; WOB 30; RPM 70; GPM 575; PP 1780; DIFF 280; P/U 108; S/O 99; ROT 103; ON BOTTOM TQ 6; OFF BOTTOM TQ 2; SAFETY HUDDLE DISCUSS: WINTERIZATION;
- 22:00 CONTROL DRLG UPPER CURVE F/4575' T/4675' =100' @ 28.5 FPH; WOB 30; RPM 50; GPM 575; PP 1800; DIFF 200; P/U 112; S/O 97; ROT 105; ON BOTTOM TQ 5; OFF BOTTOM TQ 2; SAFETY HUDDLE DISCUSS: R525 OSHA STRAINED BACK; CLOSED LOOP 1 HR NO GAINS/LOSSES;
- 01:30 CONTROL DRLG TANGENT W/FORCES APPLIED F/4675' T/4825' =150' @ 37.5 FPH; WOB 30; RPM 50; GPM 575; PP 1930; DIFF 200; P/U 113; S/O 99; ROT 105; ON BOTTOM TQ 7; OFF BOTTOM TQ 2; SAFETY HUDDLE DISCUSS: PROPER LIFTING TECHNIQUES; GOOD SURVEYS F/4687' T/4810' = 123'
- 05:30 CONTROL DRLG LOWER CURVE F/4825' T/4866' =41' @ 82 FPH; WOB 30; RPM 80; GPM 575; PP 1930; DIFF 200; P/U 114; S/O 100; ROT 105; ON BOTTOM TQ 7; OFF BOTTOM TQ 2;

Vis (s/qt): 28, Dens (lb/gal): 10.10, pH: 9.8

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,130.0	4,128.17	7.54	345.13	-18.87	5.20	-31.99	-52.58
4,160.0	4,157.78	10.77	347.01	-14.10	10.81	-27.36	-53.72
4,190.0	4,187.17	12.30	346.34	-8.11	5.12	-21.52	-55.10
4,220.0	4,216.37	14.20	345.54	-1.23	6.36	-14.85	-56.77
4,250.0	4,245.23	17.33	346.09	6.92	10.45	-6.95	-58.76
4,281.0	4,274.59	20.02	347.66	16.84	8.83	2.72	-61.00
4,311.0	4,302.49	22.98	349.32	27.83	10.07	13.49	-63.18
4,341.0	4,329.78	26.05	350.43	40.25	10.35	25.74	-65.36
4,371.0	4,356.43	28.54	350.13	53.97	8.31	39.30	-67.68
4,401.0	4,382.41	31.41	350.04	68.93	9.57	54.06	-70.26
4,431.0	4,407.52	34.83	350.16	85.28	11.40	70.20	-73.08
4,462.0	4,432.38	38.48	350.02	103.74	11.78	88.42	-76.27
4,492.0	4,455.27	42.01	350.54	123.08	11.82	107.51	-79.54
4,521.0	4,476.28	45.09	350.75	142.99	10.63	127.22	-82.79
4,552.0	4,497.44	48.78	351.34	165.56	11.98	149.58	-86.31
4,582.0	4,516.53	52.13	352.40	188.58	11.49	172.47	-89.58
4,612.0	4,534.50	54.26	353.09	212.46	7.33	196.29	-92.61
4,642.0	4,551.42	57.07	353.19	237.06	9.37	220.88	-95.57
4,672.0	4,567.10	59.89	353.18	262.45	9.40	246.27	-98.60
4,687.0	4,574.56	60.48	353.31	275.38	4.00	259.19	-100.13
4,718.0	4,589.83	60.52	353.52	302.16	0.60	285.99	-103.22
4,749.0	4,605.06	60.63	353.61	328.96	0.44	312.82	-106.25
4,779.0	4,619.78	60.58	353.39	354.90	0.66	338.79	-109.21
4,810.0	4,635.00	60.61	353.35	381.72	0.15	365.62	-112.33
4,841.0	4,649.96	61.69	353.21	408.69	3.51	392.58	-115.51

11/21/2014

Rig Name: H&P 348

Depth = 6,734.0 Progress = 1868.0

- 06:00 CONTROL DRLG LOWER CURVE F/4866' T/5107' =241' @ 60.25 FPH; WOB 32;

RPM 80; GPM 575; PP 1930; DIFF 200; P/U 120; S/O 105; ROT 108; ON BOTTOM TQ 9; OFF BOTTOM TQ 3; SAFETY HUDDLE DISCUSS: 45' BUFFER ZONE;

10:00 DRLG LATERAL F/5107' T/5322' =215' @ 53.75 FPH; WOB 35; RPM 100; GPM 620; PP 2930; DIFF 500; P/U 120; S/O 103; ROT 113; ON BOTTOM TQ 10; OFF BOTTOM TQ 4; SAFETY HUDDLE DISCUSS: SLIPS TRIPS & FALLS; CLOSED LOOP 1 HR NO GAINS/LOSSES;

11:30 DRLG LATERAL F/5322' T/5598' =276' @ 69 FPH; WOB 38; RPM 110; GPM 620; PP 2990; DIFF 220; P/U 122; S/O 103; ROT 115; ON BOTTOM TQ 12; OFF BOTTOM TQ 4; SAFETY HUDDLE DISCUSS: PROPER LIFTING TECHNIQUES;

15:00 RIG SERVICE;

15:30 DRLG LATERAL F/5598' T/5963' =365' @ 91.25 FPH; WOB 40; RPM 110; GPM 620; PP 2980; DIFF 300; P/U 127; S/O 108; ROT 118; ON BOTTOM TQ 14; OFF BOTTOM TQ 6; SAFETY HUDDLE DISCUSS: DANGERS OF LOOSE CLOTHING;

19:30 DRLG LATERAL F/5963' T/6418' =455' @ 113.8 FPH; WOB 40; RPM 110; GPM 620; PP 3000; DIFF 265; P/U 134; S/O 108; ROT 119; ON BOTTOM TQ 17; OFF BOTTOM TQ 7; SAFETY HUDDLE DISCUSS: MAINTAINING PROPER HYDRATION;

23:30 DRLG LATERAL F/6418' T/6734' =316' @ 79 FPH; WOB 40; RPM 100; GPM 620; PP 2930; DIFF 275; P/U 136; S/O 111; ROT 120; ON BOTTOM TQ 18; OFF BOTTOM TQ 6; SAFETY HUDDLE DISCUSS: OSHA R323 HERNIA;

Vis (s/qt): 28, Dens (lb/gal): 10.08, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,871.0	4,663.40	65.05	353.10	435.31	11.20	419.19	-118.71
4,902.0	4,675.56	68.72	352.68	463.63	11.90	447.47	-122.24
4,932.0	4,685.65	71.96	352.37	491.72	10.84	475.47	-125.92
4,963.0	4,694.49	74.90	352.07	521.28	9.53	504.90	-129.94
4,994.0	4,701.70	78.18	351.80	551.28	10.61	534.74	-134.17
5,024.0	4,707.10	81.09	351.22	580.67	9.88	563.92	-138.53
5,055.0	4,710.88	84.88	351.65	611.31	12.30	594.33	-143.11
5,085.0	4,712.77	87.91	352.41	641.11	10.41	623.97	-147.26
5,115.0	4,712.95	91.42	353.85	670.89	12.65	653.74	-150.85
5,206.0	4,711.53	90.37	353.13	761.21	1.40	744.14	-161.17
5,297.0	4,711.14	90.12	351.90	851.71	1.38	834.36	-173.02
5,389.0	4,710.87	90.22	346.32	943.52	6.07	924.60	-190.39
5,481.0	4,710.55	90.18	346.62	1,035.52	0.33	1,014.05	-211.91
5,573.0	4,710.20	90.25	348.20	1,127.50	1.72	1,103.83	-231.96
5,665.0	4,709.85	90.18	349.67	1,219.41	1.60	1,194.11	-249.62
5,757.0	4,709.75	89.94	347.85	1,311.33	2.00	1,284.33	-267.55
5,849.0	4,709.94	89.82	346.91	1,403.32	1.03	1,374.10	-287.65
5,940.0	4,710.31	89.72	342.17	1,494.18	5.21	1,461.73	-311.90
6,032.0	4,710.81	89.66	342.08	1,585.91	0.12	1,549.29	-340.14
6,122.0	4,711.46	89.51	339.14	1,675.40	3.27	1,634.16	-370.02
6,212.0	4,712.11	89.66	337.69	1,764.49	1.62	1,717.84	-403.13

6,303.0	4,712.55	89.78	337.54	1,854.39	0.21	1,801.98	-437.78
6,393.0	4,713.01	89.63	339.00	1,943.44	1.63	1,885.58	-471.10
6,483.0	4,713.37	89.91	339.92	2,032.75	1.07	1,969.85	-502.68
6,573.0	4,713.66	89.72	340.35	2,122.19	0.52	2,054.49	-533.26
6,664.0	4,713.93	89.94	340.88	2,212.70	0.63	2,140.33	-563.46

11/22/2014

Rig Name: H&P 348

Depth = 7,384.0 Progress = 650.0

- 06:00 DRLG LATERAL F/6734' T/7095' =361' @ 90.25 FPH; WOB 40; RPM 100; GPM 620; PP 3081; DIFF 275; P/U 136; S/O 113; ROT 130; ON BOTTOM TQ 18; OFF BOTTOM TQ 6; SAFETY HUDDLE DISCUSS: LOCK OUT TAG OUT;
- 10:00 DRLG LATERAL F/7095' T/7366' =271' @ 67.75 FPH; WOB 38; RPM 110; GPM 620; PP 3090; DIFF 285; P/U 140; S/O 114; ROT 130; ON BOTTOM TQ 17; OFF BOTTOM TQ 7; SAFETY HUDDLE DISCUSS: USING TAG LINES;
- 14:00 DRLG LATERAL F/7366' T/7384' =18' @ 36 FPH; WOB 30; RPM 100; GPM 575; PP 2800; DIFF 275; P/U 140; S/O 113; ROT 130; ON BOTTOM TQ 17; OFF BOTTOM TQ 7; SAFETY HUDDLE DISCUSS: STAYING HYDRATED;
- 14:30 TROUBLE SHOOT DIR ASSY; NEAR BIT DOWN LINKS NOT STAYING PROGRAMMED; ATTEMPTED DOWNLINKING AND HARD RESET; UNABLE TO RESTORE SETTINGS;
- 16:00 PERFORM CLEAN UP CYCLE @ 400 GPM;(1 PUMP DOWN); 80 RPM; WORKING PIPE AT 300 FPH; L/D 1 JT EVERY 30 MINUTES;
- 19:00 T.O.H.; L/D AUTO TRAK ASSY; P/U CONVENTIONAL ASSY; SURFACE TEST BHA; M/U BIT & TIH T/4309';

Vis (s/qt): 28, Dens (lb/gal): 10.10, pH: 9.9

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
6,754.0	4,713.91	90.09	343.69	2,302.42	3.13	2,226.04	-590.84
6,844.0	4,714.15	89.60	346.76	2,392.37	3.45	2,313.03	-613.79
6,934.0	4,714.68	89.72	347.94	2,482.35	1.32	2,400.84	-633.50
7,025.0	4,714.85	90.06	347.28	2,573.33	0.82	2,489.72	-653.03
7,115.0	4,714.56	90.31	346.68	2,663.33	0.72	2,577.40	-673.31
7,205.0	4,714.54	89.72	350.80	2,753.21	4.62	2,665.61	-690.88
7,296.0	4,714.98	89.72	354.68	2,843.62	4.26	2,755.83	-702.38

11/23/2014

Rig Name: H&P 348

Depth = 8,007.0 Progress = 623.0

- 06:00 CONTINUE TIH F/4173' T/7149'
- 09:00 WASH F/ 7149' T/7384' W/350 GPM & 60 RPM;
- 10:30 TROUBLE SHOOT MWD; REBOOT SURFACE EQUIPMENT; UNABLE TO GET GOOD SURVEY QUALIFIERS NOT IN SPEC;
- 12:30 ROTARY DRLG LATERAL F/7384' T/7417' =33' @ 33 FPH; WOB 28; RPM 75; GPM 550; PP 2600; DIFF 600; P/U 160; S/O 123; ROT 130; ON BOTTOM TQ 15; OFF BOTTOM TQ 7; CLOSED LOOP 1 HR NO GAINS/LOSSES;

13:00 SLIDE DRLG LATERAL F/7417' T/7427' =10' @ 6.6 FPH; WOB 28; RPM 75; GPM 550; PP 2600; DIFF 125; P/U 160; S/O 123; ROT 130; TF 90 LEFT;

14:30 ROTARY DRLG LATERAL F/7427' T/7437' =10' @ 20 FPH; WOB 28; RPM 60; GPM 423; PP 1600; DIFF 600; P/U 160; S/O 123; ROT 130; ON BOTTOM TQ 12; OFF BOTTOM TQ 2;

15:00 SLIDE DRLG LATERAL F/7437' T/7447' =10' @ 6.6 FPH; WOB 28; RPM 75; GPM 443; PP 1500; DIFF 200; P/U 140; S/O 123; ROT 131; TF 90 LEFT;

16:30 ROTARY DRLG LATERAL F/7447' T/7556' =109' @ 109 FPH; WOB 30; RPM 60; GPM 423; PP 1500; DIFF 600; P/U 140; S/O 123; ROT 131; ON BOTTOM TQ 13; OFF BOTTOM TQ 8;

17:30 RIG SERVICE

18:00 ROTARY DRLG LATERAL F/7556' T/7601' =45' @ 45 FPH; WOB 30; RPM 60; GPM 423; PP 1600; DIFF 600; P/U 143; S/O 122; ROT 132; ON BOTTOM TQ 16; OFF BOTTOM TQ 7;

19:00 SLIDE DRLG LATERAL F/7601' T/7611' =10' @ 10 FPH; WOB 40; GPM 443; PP 1550; DIFF 150; P/U 175; S/O 92; TF 90 LEFT;

20:00 ROTARY DRLG LATERAL F/7611' T/7646' =35' @ 75 FPH; WOB 30; RPM 60; GPM 423; PP 1600; DIFF 600; P/U 143; S/O 122; ROT 132; ON BOTTOM TQ 16; OFF BOTTOM TQ 7;

20:30 SLIDE DRLG LATERAL F/7646' T/7656' =10' @ 10 FPH; WOB 40; GPM 443; PP 1550; DIFF 100; P/U 175; S/O 92; TF 90 LEFT; SAFETY HUDDLE DISCUSS WEARING PROPER PPE;

22:00 ROTARY DRLG LATERAL F/7656' T/7781' =125' @ 83 FPH; WOB 40; RPM 80; GPM 575; PP 2750; DIFF 450; P/U 140; S/O 120; ROT 130; ON BOTTOM TQ 14; OFF BOTTOM TQ 8;

23:30 SLIDE DRLG LATERAL F/7781' T/7801' =20' @ 8 FPH; WOB 40; GPM 575; PP 2750; DIFF 100; P/U 180; S/O 89; TF 160 LEFT; SAFETY HUDDLE DISCUSS: FORKLIFT FLAGGING;

02:00 ROTARY DRLG LATERAL F/7801' T/7827' =26' @ 52 FPH; WOB 30; RPM 80; GPM 575; PP 2800; DIFF 450; P/U 141; S/O 117; ROT 130; ON BOTTOM TQ 16; OFF BOTTOM TQ 7;

02:30 SLIDE DRLG LATERAL F/7827' T/7842' =15' @ 10 FPH; WOB 40; GPM 575; PP 2800; DIFF 100; P/U 176; S/O 89; TF 170 LEFT; SAFETY HUDDLE DISCUSS: PROPER PPE FOR MIXING CHEMICALS;

04:00 ROTARY DRLG LATERAL F/7842' T/8007' =165' @ 82.5 FPH; WOB 30; RPM 80; GPM 575; PP 2800; DIFF 520; P/U 142; S/O 117; ROT 130; ON BOTTOM TQ 16; OFF BOTTOM TQ 9;

Vis (s/qt): 28, Dens (lb/gal): 10.08, pH: 9.9

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,368.0	4,715.21	89.91	356.31	2,914.74	2.28	2,827.60	-708.04
7,458.0	4,714.72	90.71	354.45	3,003.66	2.25	2,917.29	-715.29
7,549.0	4,712.44	92.16	354.57	3,093.74	1.60	3,007.84	-723.99
7,639.0	4,708.52	92.83	353.26	3,182.91	1.63	3,097.24	-733.52

7,729.0	4,703.41	93.68	351.58	3,272.28	2.09	3,186.30	-745.37
7,820.0	4,698.04	93.09	349.17	3,362.90	2.72	3,275.84	-760.56
7,910.0	4,693.75	92.38	347.76	3,452.73	1.75	3,363.91	-778.54

11/24/2014

Rig Name: H&P 348

Depth = 8,324.0 Progress = 317.0

- 06:00 SLIDE DRLG LATERAL F/8007' T/8017' =10' @ 5 FPH; WOB 30; GPM 575; PP 2800; DIFF 150; P/U 180; S/O 80; TF 170 LEFT;
- 08:00 ROTARY DRLG LATERAL F/8017' T/8022' =5' @ 10 FPH; WOB 15; RPM 80; GPM 575; PP 2800; DIFF 200; P/U 142; S/O 117; ROT 130; ON BOTTOM TQ 12; OFF BOTTOM TQ 8;
- 08:30 SLIDE DRLG LATERAL F/8022' T/8032' =10' @ 6.6 FPH; WOB 45; GPM 575; PP 2870; DIFF 150; P/U 185; S/O 80; TF 180;
- 10:00 ROTARY DRLG LATERAL F/8032' T/8037' =5' @ 10 FPH; WOB 20; RPM 80; GPM 575; PP 2750; DIFF 150; P/U 145; S/O 117; ROT 130; ON BOTTOM TQ 11; OFF BOTTOM TQ 8; CLOSED LOOP 1HR NO GAINS/LOSSES
- 10:30 SLIDE DRLG LATERAL F/8037' T/8047' =10' @ 10 FPH; WOB 45; GPM 575; PP 2750; DIFF 100; P/U 185; S/O 80; TF 180; SAFETY HUDDLE DISCUSS: USING PROPER TOOLS FOR THE JOB;
- 11:30 ROTARY DRLG LATERAL F/8047' T/8052' =5' @ 10 FPH; WOB 30; RPM 80; GPM 575; PP 2750; DIFF 100; P/U 145; S/O 117; ROT 130; ON BOTTOM TQ 10; OFF BOTTOM TQ 8; SAFETY HUDDLE DISCUSS: WORKING IN WINDY CONDITIONS;
- 12:00 SLIDE DRLG LATERAL F/8052' T/8062' =10' @ 5 FPH; WOB 30; GPM 575; PP 2750; DIFF 100; P/U 187; S/O 80; TF 180;
- 14:00 ROTARY DRLG LATERAL F/8062' T/8067' =5' @ 10 FPH; WOB 30; RPM 80; GPM 575; PP 2750; DIFF 250; P/U 145; S/O 117; ROT 130; ON BOTTOM TQ 12; OFF BOTTOM TQ 8;
- 14:30 SLIDE DRLG LATERAL F/8067' T/8077' =10' @ 6.6 FPH; WOB 15; GPM 575; PP 2750; DIFF 140; P/U 195; S/O 80; TF 180;
- 16:00 ROTARY DRLG LATERAL F/8077' T/8082' =5' @ 10 FPH; WOB 30; RPM 80; GPM 575; PP 2880; DIFF 250; P/U 145; S/O 117; ROT 130; ON BOTTOM TQ 13; OFF BOTTOM TQ 10; SAFETY HUDDLE DISCUSS MIXING CHEMICALS;
- 16:30 SLIDE DRLG LATERAL F/8082' T/8092' =10' @ 5 FPH; WOB 15; GPM 575; PP 2750; DIFF 180; P/U 195; S/O 80; TF 150 LEFT;
- 18:30 ROTARY DRLG LATERAL F/8092' T/8098' =6' @ 12 FPH; WOB 20; RPM 80; GPM 575; PP 2850; DIFF 250; P/U 141; S/O 120; ROT 131; ON BOTTOM TQ 12; OFF BOTTOM TQ 9;
- 19:00 SLIDE DRLG LATERAL F/8098' T/8108' =10' @ 4 FPH; WOB 40; GPM 500; PP 2050; DIFF 100; P/U 190; S/O 80; TF 150 LEFT; SAFETY HUDDLE DISCUSS WEATHERIZATION OF RIG;
- 21:30 ROTARY DRLG LATERAL F/8108' T/8113' =5' @ 10 FPH; WOB 20; RPM 80; GPM 575; PP 2900; DIFF 300; P/U 141; S/O 120; ROT 131; ON BOTTOM TQ 12;

OFF BOTTOM TQ 9;

22:00 SLIDE DRLG LATERAL F/8113' T/8123' =10' @ 6.6 FPH; WOB 40; GPM 500; PP 2050; DIFF 100; P/U 187; S/O 80; TF 170 LEFT;

23:30 ROTARY DRLG LATERAL F/8123' T/8143' =20' @ 40 FPH; WOB 20; RPM 80; GPM 575; PP 2900; DIFF 400; P/U 142; S/O 117; ROT 130; ON BOTTOM TQ 15; OFF BOTTOM TQ 8; SAFETY HUDDLE DISCUSSS ANTI-FALL EQUIPMENT BEFORE USE;

00:00 SLIDE DRLG LATERAL F/8143' T/8153' =10' @ 6.6 FPH; WOB 40; GPM 500; PP 2050; DIFF 100; P/U 188; S/O 77; TF 180;

01:30 ROTARY DRLG LATERAL F/8153' T/8278' =125' @ 83 FPH; WOB 20; RPM 80; GPM 522; PP 2850; DIFF 350; P/U 145; S/O 116; ROT 131; ON BOTTOM TQ 13; OFF BOTTOM TQ 9; SAFETY HUDDLE DISCUSS OSHA R525 STRAINED BACK;

03:00 SLIDE DRLG LATERAL F/8278' T/8290' =12' @ 6 FPH; WOB 40; GPM 500; PP 2080; DIFF 100; P/U 195; S/O 75; TF 170R;

05:00 ROTARY DRLG LATERAL F/8290' T/8324' =34' @ 34 FPH; WOB 20; RPM 80; GPM 500; PP 2950; DIFF 300; P/U 145; S/O 116; ROT 131; ON BOTTOM TQ 14; OFF BOTTOM TQ 9;

Vis (s/qt): 28, Dens (lb/gal): 10.07, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
8,000.0	4,689.12	93.52	347.49	3,542.59	1.30	3,451.70	-797.80
8,091.0	4,686.87	89.32	345.98	3,633.50	4.90	3,540.18	-818.67
8,181.0	4,690.31	86.30	345.07	3,723.39	3.50	3,627.23	-841.15

11/25/2014

Rig Name: H&P 348

Depth = 9,226.0 Progress = 902.0

06:00 ROTARY DRLG LATERAL F/8324' T/8389' =65' @ 130 FPH; WOB 30; RPM 80; GPM 600; PP 2950; DIFF 480; P/U 145; S/O 116; ROT 131; ON BOTTOM TQ 14; OFF BOTTOM TQ 7;

06:30 SLIDE DRLG LATERAL F/8389' T/8400' =11' @ 22 FPH; WOB 35; GPM 575; PP 2950; DIFF 60; P/U 195; S/O 75; TF 170L;

08:00 ROTARY DRLG LATERAL F/8400' T/8504' =104' @ 69 FPH; WOB 25; RPM 80; GPM 575; PP 2950; DIFF 490; P/U 145; S/O 116; ROT 131; ON BOTTOM TQ 15; OFF BOTTOM TQ 9;

09:30 SLIDE DRLG LATERAL F/8504' T/8516' =12' @ 4.8 FPH; WOB 50; GPM 425; PP 1750; DIFF 50; P/U 195; S/O 75; TF 180;

12:00 ROTARY DRLG LATERAL F/8516' T/8549' =33' @ 33 FPH; WOB 25; RPM 80; GPM 575; PP 2700; DIFF 400; P/U 145; S/O 116; ROT 131; ON BOTTOM TQ 14; OFF BOTTOM TQ 9; SAFETY HUDDLE DISCUSS: WORKING ON PUMPS, LOCK OUT TAG OUT;

13:00 SLIDE DRLG LATERAL F/8549' T/8569' =20' @ 6 FPH; WOB 50; GPM 575; PP 2900; DIFF 50; P/U 198; S/O 75; TF 180;

16:00 ROTARY DRLG LATERAL F/8569' T/8614' =45' @ 90 FPH; WOB 25; RPM 80;

- GPM 575; PP 2900; DIFF 440; P/U 145; S/O 116; ROT 131; ON BOTTOM TQ 15; OFF BOTTOM TQ 9; SAFETY HUDDLE DISCUSS: 45' BUFFER ZONE
- 16:30 SLIDE DRLG LATERAL F/8614' T/8626' =12' @ 12 FPH; WOB 50; GPM 575; PP 2900; DIFF 370; P/U 201; S/O 75; TF 160R;
- 17:30 ROTARY DRLG LATERAL F/8626' T/8659' =33' @ 33 FPH; WOB 25; RPM 80; GPM 575; PP 2900; DIFF 250; P/U 145; S/O 116; ROT 131; ON BOTTOM TQ 14; OFF BOTTOM TQ 9;
- 18:30 SLIDE DRLG LATERAL F/8659' T/8679' =20' @ 10 FPH; WOB 40; GPM 575; PP 2900; DIFF 250; P/U 201; S/O 75; TF 160R;
- 20:30 ROTARY DRLG LATERAL F/8679' T/8705' =26' @ 52 FPH; WOB 25; RPM 80; GPM 575; PP 2900; DIFF 250; P/U 147; S/O 115; ROT 131; ON BOTTOM TQ 14; OFF BOTTOM TQ 9;
- 21:00 SLIDE DRLG LATERAL F/8705' T/8720' =15' @ 7.5 FPH; WOB 40; GPM 575; PP 2900; DIFF 100; P/U 201; S/O 75; TF 140R;
- 23:00 ROTARY DRLG LATERAL F/8720' T/8730' =10' @ 20 FPH; WOB 25; RPM 80; GPM 575; PP 2900; DIFF 250; P/U 148; S/O 114; ROT 132; ON BOTTOM TQ 14; OFF BOTTOM TQ 10; SAFETY HUDDLE DISCUSS KEEPING WALKWAYS CLEAR OF OBSTRUCTIONS;
- 23:30 SLIDE DRLG LATERAL F/8730' T/8745' =15' @ 15 FPH; WOB 40; GPM 575; PP 2850; DIFF 100; P/U 203; S/O 73; TF 160R; SAFETY HUDDLE DISCUSS USING HANDLES ON EQUIPMENT TO PREVENT HAND INJURIES;
- 00:30 ROTARY DRLG LATERAL F/8745' T/9226' =481' @ 87 FPH; WOB 30; RPM 80; GPM 575; PP 2900; DIFF 500; P/U 148; S/O 114; ROT 132; ON BOTTOM TQ 16; OFF BOTTOM TQ 10; SAFETY HUDDLE DISCUSS PAY ATTENTION TO FOOTING ON SLICK SURFACES; CLOSED LOOP 1 HR NO GAINS/LOSSES;

Vis (s/qt): 28, Dens (lb/gal): 10.08, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
86.4	0.00	343.76	0.00	0.00	0.00	0.00	0.00
8,272.0	4,695.15	87.60	345.41	3,814.23	1.48	3,715.10	-864.30
8,362.0	4,699.07	87.41	346.00	3,904.14	0.69	3,802.23	-886.50
8,452.0	4,701.80	89.11	345.56	3,994.08	1.95	3,889.42	-908.60
8,542.0	4,702.96	89.41	344.26	4,084.03	1.48	3,976.30	-932.03
8,633.0	4,705.05	87.96	343.43	4,174.89	1.84	4,063.67	-957.34
8,723.0	4,710.55	85.03	343.93	4,264.58	3.30	4,149.85	-982.58
8,813.0	4,719.14	84.01	344.24	4,354.08	1.18	4,236.00	-1,007.15
8,904.0	4,727.58	85.34	344.18	4,444.61	1.46	4,323.18	-1,031.80
8,994.0	4,734.09	86.36	343.76	4,534.27	1.23	4,409.45	-1,056.59