

FORGE Energy
UL 13 Keene 2412H
API Number: 42-003-46311

05/20/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

05/21/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

05/22/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

05/23/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

05/24/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

05/28/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

05/29/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 Location construction

05/30/2014

Rig Name:

Depth = 0.0 Progress = 0.0

07:00 LOCATION CONSTRUCTION

07/31/2014

Rig Name:

Depth = 0.0 Progress = 0.0

08/17/2014

Rig Name: H&P 348

Depth = 0.0 Progress = 0.0

- 06:00 WAIT ON DAYLIGHT
- 07:00 MOVE H&P 348 WITH H&P TRUCKING. SET IN MUD PUMPS, MUD PITS, SHAKERS, PRE-MIX, DRILLER CABIN. BOPE, PIPE WRANGLER, SUB UTILITY TRAILER, SUB BASES, DRAWWORKS, ST-80, RIG FLOOR, DERRICK ON LOCATION. CO. MAN TRAILER AND DIRECTIONAL TRAILER SET IN AND RIGGED UP.
- 19:00 WAIT ON DAYLIGHTS

08/18/2014

Rig Name: H&P 348

Depth = 0.0 Progress = 0.0

- 06:00 WAIT ON DAYLIGHT
- 07:00 PJSM, DISCUSSED STAYING HYDRATED AND COOL, GOOD COMMUNICATION, AND STOP JOB AUTHORITY, POWER DOWN RIG MANAGERS HOUSE AND LOAD OUT, LOAD OUT MISC, LOAD OUT GENS, DIESEL TANK, CHANGE HOUSE, CONNEX, AND MISC LOADS, ASSIST WELDERS AND INSPECTORS ON STRUCUAL AUDIT, ASSIST ELECTRICIAN ON REPLACING TDS CABLES ON DRAG CHAIN, RAISE MAST AND PREP SUB FOR CENTER STEEL, INSTALL CENTER STEEL
- 18:00 REVIEW JSA AND RAISED DOG HOUSE, FINISHED PLUGGING IN ELECTRICAL, REVIEWED JSA AND POWERED UP, R/U PIPE WRANGLER, R/U RIG FLOOR, REVIEWED JSA AND SCOPED OUT MAST, SPOOLED DRAWWORKS AND DID 2 POINT CALIBRATION, ASSIST ELEC WORKING ON TOP DRIVE, C/O ELEC CABLES, R/U FLARE AND PANIC LINES, FINISHED R/U BACKYARD, R/U MISC EQUIPMENT, FUNCTIONED EQUIP, FILLED UP ACTIVE PITS.

08/19/2014

Rig Name: H&P 348

Depth = 902.0 Progress = 804.0

- 06:00 PJSM AND SPUD MEETING, DISCUSSED BONUS PROGRAM, SAN ANDRES HORIZONTAL PROGRAM AND SAFETY EXPECTATIONS, CALLED AND TALKED WITH KAYLEE AT TXRRC, JOB# 13690, CONTINUE RIG UP, SET IN RIG WATER TANK, 2 RENTAL FRAC TANKS, DRILL PIPE, HWDP, DCs, CREW BUNK HOUSE. RIG UP PVC PIPE IN BACKYARD WITH ROUSTABOUT LABOR. RECEIVED SURFACE BHA, WELL HEAD EQUIPMENT, PIPE DOPE, ETC. WELD ON RISER PIPE AND ATTACH DRESSER SLEEVE TO FLOW LINE. MAKE REPAIRS ON CATWALK,. CONDUCT PRE-SPUD INSPECTION. FLOW LINE MODIFICATIONS, LEVEL AND PLAIN MAST.
- 16:00 STRAP AND CALIPER BHA, ORGANIZE RIG FLOOR AND INSPECT SLIPS.
- 18:30 CALIBRATE RIG DRAWWORKS, RIG SERVICE

19:00 P/U AND M/U BHA AND TIH IN HOLE TO 95'.
 21:00 TESTED STAND PIPE LINES TO 2500 PSI, TESTED INPETRO SURVEY SUB, TESTED GOOD.
 22:00 SPUD UL 13 KEENE 2412H @ 22:00; R/DRILL F/98' - 182', = 84' @ 42 FPH, STAGED PARAMETERS UP. GPM:400-550, WOB:5-25K, RPM:30-70, PP:800, P/U:40, S/O:40, R/T:40, ON BOT:1K, OFF BOT:2K
 00:00 TOP DRIVE STALLED OUT, TROUBLESHOOT TOP DRIVE, FOUND LOOSE ENCODER
 01:00 R/DRILL F/182' - 660', = 478' @ 191 FPH, GPM:500-700, WOB:20-35K, RPM:60-80, PP:1750, P/U:66, S/O:63, R/T:64, ON BOT:5K, OFF BOT:2K
 03:30 BLEW 2 HOSES ON ST-80, CHANGE OUT HYDRAULIC HOSES ON ST-80
 04:00 R/DRILL F/660' - 902', = 242' @ 121 FPH, GPM:700, WOB:20-35K, RPM:80, PP:1750, P/U:68, S/O:66, R/T:67, ON BOT:5K, OFF BOT:2K

Vis (s/qt): 0, Dens (lb/gal): 8.40, pH: 7.8

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
94.0	94.00	0.22	44.53	0.00	0.00	0.00	0.00
125.0	125.00	0.31	310.79	0.00	0.00	0.00	0.00
156.0	156.00	0.40	349.11	0.00	0.00	0.00	0.00
187.0	187.00	0.48	313.52	0.00	0.00	0.00	0.00
280.0	280.00	0.31	296.20	0.00	0.00	0.00	0.00
397.0	397.00	0.40	225.80	0.00	0.00	0.00	0.00
489.0	489.00	0.40	196.71	0.00	0.00	0.00	0.00
582.0	582.00	0.40	210.20	0.00	0.00	0.00	0.00
705.0	705.00	0.40	263.33	0.00	0.00	0.00	0.00
797.0	797.00	0.31	268.60	0.00	0.00	0.00	0.00

08/20/2014

Rig Name: H&P 348

Depth = 1,863.0 Progress = 961.0

06:00 R/DRILL FROM 902' - 1033' = 131' @ 262 FPH, GPM:700, WOB:20-35K, RPM:80, PP:1750, P/U:68, S/O:66, R/T:67, ON BOT:5K, OFF BOT:2K
 06:30 RECYCLING INPETRO SURVEY TOOL, WAIT ON INPETRO SERVICE HAND, TROUBLESHOOT SURFACE GEAR
 09:00 R/DRILL FROM 1033' - 1863' = 830' @ 166 FPH, GPM:750, WOB:35-40K, RPM:90-100, PP:2300, P/U:68, S/O:66, R/T:67, ON BOT:14K, OFF BOT:4K
 14:00 CIRCULATE AND CONDITION HOLE FOR 2 BU's. PUMP 2 - HIGH VIS SWEEPS
 15:30 T.O.H. F/1836' T/BIT; (WORKED THROUGH TIGHT SPOT F/1065' T/1030' W/40K MAX OVERPULL; WORKED BACK THROUGH TIGHT SPOT TO 1065'); L/D BHA & BIT;
 22:30 CLEAN RIG FLOOR; R/U & TEST CRT; PERFORM CALIBRATION ON T/D; CHECK CROWN SAVER;
 01:00 M/U SHOE TRACK & RUN 9.625", 36#, J-55 LTC CASING T/507'

04:00 RIG SERVICE, TROUBLE SHOOT & TIGHTEN LOOSE WIRE ON TOP DRIVE ENCODER;

05:00 CONT TO RUN 9.625" CSG F/507' T/844';

Vis (s/qt): 32, Dens (lb/gal): 9.20, pH: 7.8

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
963.0	963.00	0.48	271.94	0.01	0.10	0.01	-1.14
1,414.0	1,413.98	0.48	188.40	-1.79	0.14	-1.79	-3.30
1,640.0	1,639.96	1.01	182.83	-4.72	0.24	-4.72	-3.54
1,833.0	1,832.93	0.88	232.92	-7.31	0.42	-7.31	-4.81

08/21/2014

Rig Name: H&P 348

Depth = 1,863.0 Progress = 0.0

06:00 RUN CASING F/844' - 942'

06:30 RIG SERVICE, REPAIR LEAKING HYDRAULIC LINE.

07:00 RUN CASING F/942' - 1769'. HIT TIGHT SPOT, WASHED LAST TO JOINTS TO BOTTOM, (1.5 HOURS)

10:00 CIRCULATE AND CONDITION HOLE WHILE CONDUCTING PJSM WITH HALLIBURTON.

10:30 RIG UP CEMENTING LINES TO CRT CEMENT SWIVEL

11:00 PUMP CEMENT JOB AS FOLLOWS: 20 BBL RED DYE SPACER; 650 SKS OF LEAD CEMENT: 1.85 FT3/SK, 12.9 PPG, 9.75 GAL/SK; 130 SKS OF TAIL CEMENT: 1.36 FT3/SK, 14.8 PPG, 6.22 GALS/SK. DISENGAGE AND DROP PLUG, DISPLACE W/137 BBLS OF FW, BUMPED PLUG @ 700 PSI, PRESSURED UP TO 1200 PSI AND HELD FOR 5 MINS, BLEED 0.5 BBLS BACK, FLOAT HELD, 61 SKS OF CEMENT TO THE RESERVE. (20 BBLS).

12:30 WAIT ON CEMENT, JET CELLAR, FLUSH CONDUCTOR, PREPARE FOR N/U, JET PITS AND FILL WITH BRINE WATER FROM RESERVE. N/U ROTATING HEAD TO BOPE, REMOVE TURNBUCKLES, REMOVE FLOW LINE

16:30 CUT OFF RISER PIPE AND CASING AND L/D SAME, WELD ON WELLHEAD AND TEST TO 1600 PSI

19:00 R/D CRT; C/O DECODER ON TOP DRIVE; INSTALLED CORRISON RING ABOVE SAVER SUB WHILE INSTALLING SPOOL TO BOPE; NIPPLE UP; INSTALL HCR & KILL LINE; VALVES; CHOKE LINE; ROT. HEAD BOWL; HYD. LINES; FLOW LINE; CENTERED BOPE & FUNCTION TESTED;

02:00 R/U & TESTED BOPE; CHOKE MANIFOLD; TOP DRIVE MANUAL VALVE; DART & TIW VALVES; STAND PIPE; T/ 250 PSI FOR 5 MIN LOW & 3000 PSI FOR 10 MIN HIGH; TESTED ANNULAR & CASING T/1500 PSI FOR 30 MIN;

Vis (s/qt): 32, Dens (lb/gal): 9.20, pH: 7.8

08/22/2014

Rig Name: H&P 348

Depth = 3,185.0 Progress = 1322.0

06:00 REVIEW JSA & TEST CSG TO 1500 PSI FOR 30 MIN;

07:30 CLEAR & CLEAN RIG FLOOR; R/U SCORPION; M/U BIT; & BHA; TEST BHA; (SAFETY HUDDLE - IMPORTANCE OF USING A TAIL ROPE); (AUTOTRAK WOULD NOT TEST - NOT ENOUGH PRESSURE FOR TOOLS TO COMMUNICATE) (SAFETY HUDDLE - HOUSE KEEPING);

13:30 TIH T/521' TESTED AUTOTRAK - TESTED GOOD; DOWNLINKED; (SAFETY HUDDLE - FORKLIFT OPERATIONS);

15:30 RIG SERVICE & REPAIR HYDRALIC LINE ON PDS;

16:00 CONT REPAIRING PDS;

16:30 CONT TIH F/521' T/1787' & INSTALLED ROT HEAD;

18:30 TIH F/1787' T/TAGGING CEMENT @ 1803'; DRILL SHOE TRACK T/1863'

19:30 SEND DOWNLINKS

20:00 R/DRILL VERTICAL HOLE F/1863' T/2280' = 407' @ 101.75 FPH; WOB: 22-32K; RPM: 80; GPM: 600; PP: 1700; P/U: 78; S/O: 67; R/T: 71; OFF BTM TQ: 2; ON BTM TQ: 5; ACC PSI: 2820; MANIFOLD PSI: 1490; ANN PSI: 1420; SAFETY BREAK DISCUSSED PROPER LIFTING TECHNIQUES

00:00 R/DRILL VERTICAL HOLE F/2280' T/2980' = 700' @ 175 FPH; WOB: 30K; RPM: 100; GPM: 600; PP: 1950; P/U: 78; S/O: 67; R/T: 71; OFF BTM TQ: 2; ON BTM TQ: 5; CLOSED LOOP 1 HR NO GAINS/LOSSES;

04:00 R/DRILL VERTICAL HOLE F/2980' T/3185' = 205' @ 103 FPH; WOB: 30K; RPM: 80; GPM: 400; PP: 1950; P/U: 86; S/O: 80; R/T: 84; OFF BTM TQ: 3; ON BTM TQ: 6;

Vis (s/qt): 29, 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)
1,941.0	1,940.93	0.22	208.16	-7.07	0.64	-9.14	-7.83
2,122.0	2,121.93	0.04	258.18	-7.33	0.11	-9.46	-8.06
2,302.0	2,301.93	0.22	62.45	-7.24	0.14	-9.31	-7.82
2,483.0	2,482.92	0.82	53.52	-6.64	0.33	-8.38	-6.47
2,664.0	2,663.90	0.88	49.24	-5.50	0.05	-6.70	-4.38
2,844.0	2,843.88	0.63	45.42	-4.35	0.14	-5.10	-2.63
3,025.0	3,024.87	0.47	32.26	-3.32	0.11	-3.77	-1.52
3,205.0	3,204.87	0.15	351.80	-2.56	0.20	-2.91	-1.16

08/23/2014

Rig Name: H&P 348

Depth = 4,584.0 Progress = 1399.0

06:00 R/DRILL VERTICAL HOLE F/3185' T/3624' = 429' @ 107.25 FPH; WOB: 32K; RPM: 80; GPM: 600; PP: 2000; P/U: 93; S/O: 90; R/T: 92; OFF BTM TQ: 2; ON BTM TQ: 5; ACC PSI: 2780; MANIFOLD PSI: 1540; ANN PSI: 1520; CLOSED LOOP 1 HR 12 BBL LOSS; SAFETY HUDDLE DISCUSSED TRANSFERRING FLUID;

10:00 R/DRILL VERTICAL HOLE F/3624' T/4013' = 389' @ 86.44 FPH; WOB: 28K; RPM: 90; GPM: 600; PP: 1950; P/U: 99; S/O: 93; R/T: 96; OFF BTM TQ: 2; ON BTM TQ: 5; SAFETY HUDDLE: DISCUSS SLIP INSP.

14:30 CONTROL DRILL UPPER CURVE F/4013' T/4133' = 120' @ 34.28 FPH; WOB:

30K; RPM: 50; GPM: 600; DIFF: 200 PP: 1950; P/U: 102; S/O: 96; R/T: 99; OFF
BTM TQ: 1; ON BTM TQ: 3;

18:00 CONTROL DRILL UPPER CURVE F/4013' T/4133' = 120' @ 34.28 FPH; WOB:
30K; RPM: 50; GPM: 600; DIFF: 200 PP: 1950; P/U: 102; S/O: 96; R/T: 99; OFF
BTM TQ: 1; ON BTM TQ: 3;

21:30 RIG SERVICE & C/O DIES ON GRABBER

22:00 CONTROL DRILL UPPER CURVE F/4133' T/4305' = 172' @ 43 FPH; WOB: 18K;
RPM: 50; GPM: 600; PP: 1900; P/U: 105; S/O: 97; R/T: 103; OFF BTM TQ: 2; ON
BTM TQ: 5; SAFETY HUDDLE DISCUSSED H2S PROCEDURES;

02:00 CONTROL DRILL UPPER CURVE F/4305' T/4463' = 158' @ 40 FPH; WOB: 19K;
RPM: 50; GPM: 600; PP: 2050; P/U: 110; S/O: 98; R/T: 103; OFF BTM TQ: 2; ON
BTM TQ: 5; SAFETY HUDDLE DISCUSSED 100% TIE OFF

06:00 CONTROL DRILL UPPER CURVE F/4463' T/4584' = 121' @ 35 FPH; WOB: 30K;
RPM: 50; GPM: 600; PP: 2000; P/U: 110; S/O: 98; R/T: 103; OFF BTM TQ: 3; ON
BTM TQ: 5; SAFETY HUDDLE DISCUSSED PROPER HYDRATION;

Vis (s/qt): 29, Dens (lb/gal): 10.00, pH: 9.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
3,386.0	3,385.87	0.16	57.44	-2.24	0.09	-2.54	-0.98
3,566.0	3,565.87	0.34	55.24	-1.97	0.10	-2.10	-0.33
3,747.0	3,746.86	0.56	76.77	-1.77	0.15	-1.59	0.97
3,927.0	3,926.86	0.06	197.45	-1.86	0.33	-1.48	1.80
4,018.0	4,017.85	0.85	3.81	-1.25	1.00	-0.85	1.83
4,049.0	4,048.82	3.43	349.04	-0.11	8.44	0.29	1.67
4,078.0	4,077.69	6.73	347.93	2.46	11.38	2.80	1.15
4,108.0	4,107.37	9.64	347.96	6.72	9.70	6.98	0.26
4,139.0	4,137.76	12.91	346.33	12.79	10.60	12.88	-1.10
4,168.0	4,165.86	15.63	345.27	19.93	9.42	19.81	-2.86
4,198.0	4,194.62	17.39	344.48	28.45	5.91	28.04	-5.09
4,229.0	4,223.97	20.12	344.30	38.41	8.81	37.64	-7.77
4,258.0	4,250.96	22.73	345.13	49.00	9.06	47.86	-10.56
4,289.0	4,279.32	24.88	345.39	61.51	6.94	59.96	-13.74
4,320.0	4,307.01	28.47	345.07	75.42	11.59	73.41	-17.29
4,349.0	4,332.31	30.00	344.91	89.58	5.28	87.09	-20.96
4,379.0	4,357.94	32.59	344.49	105.15	8.66	102.12	-25.07
4,410.0	4,383.57	35.80	345.07	122.56	10.41	118.93	-29.64
4,440.0	4,407.35	39.27	345.04	140.83	11.57	136.58	-34.35
4,470.0	4,429.97	42.81	345.09	160.51	11.80	155.60	-39.43
4,500.0	4,451.41	45.90	345.13	181.46	10.30	175.86	-44.82

08/24/2014

Rig Name: H&P 348

Depth = 6,095.0 Progress = 1511.0

06:00 CONTROL DRILL UPPER CURVE F/4584' T/4608' = 24' @ 24 FPH; WOB: 30K;
RPM: 60; GPM: 600; PP: 2100; P/U: 110; S/O: 98; R/T: 103; OFF BTM TQ: 2; ON
BTM TQ: 4; ACC PSI: 2950; MANIFOLD PSI: 1520; ANN PSI: 1520;

07:00 CONTROL DRILL TANG. F/4608' T/4782' = 174' @ 35 FPH; WOB: 30K; RPM: 50; GPM: 600; PP: 2000; P/U: 110; S/O: 98; R/T: 103; OFF BTM TQ: 3; ON BTM TQ: 5; SAFETY HUDDLE DISCUSSED OVERHEAD OBJECTS;

11:30 CONTROL DRILL LOWER CURVE F/4782' T/5108' = 326' @ 59 FPH; WOB: 30K; RPM: 50; GPM: 600; PP: 2100; P/U: 120; S/O: 96; R/T: 107; OFF BTM TQ: 2; ON BTM TQ: 9; SAFETY HUDDLE DISCUSSED EYE WASH STATION; CLOSED LOOP FOR 1 HR NO GAIN OR LOSS;

17:00 DRILL LATERAL F/5108' T/5120' = 12' @ 12 FPH; WOB: 38K; RPM: 80; GPM: 500; PP: 1950; P/U: 120; S/O: 96; R/T: 107; OFF BTM TQ: 2; ON BTM TQ: 11;

18:00 RIG SERVICE

18:30 DRILL LATERAL F/5120' T/5540' = 420' @ 120 FPH; WOB: 38K; RPM: 80; GPM: 500; PP: 2300; P/U: 145; S/O: 89; R/T: 117; OFF BTM TQ: 3; ON BTM TQ: 11; SAFETY HUDDLE DISCUSSED PREVENTIVE MAINTENANCE;

22:30 DRILL LATERAL F/5540' T/5880' = 340' @ 85 FPH; WOB: 38K; RPM: 90; GPM: 500; PP: 2300; P/U: 145; S/O: 89; R/T: 117; OFF BTM TQ: 4; ON BTM TQ: 12; SAFETY HUDDLE DISCUSSED BACK INJURIES; CLOSED LOOP 1 HR NO GAINS/LOSSES;

02:30 DRILL LATERAL F/5880' T/6095' = 215' @ 61 FPH; WOB: 38K; RPM: 90; GPM: 500; PP: 2250; P/U: 150; S/O: 90; R/T: 120; OFF BTM TQ: 5; ON BTM TQ: 12; SPR: MP#1 30=190; 40=236; 50=287; MP#2 30=180; 40=230; 50=280; SAFETY HUDDLE DISCUSSED 3RD PARTY RESPONSIBILITIES;

Vis (s/qt): 29, Dens (lb/gal): 10.00, pH: 9.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,530.0	4,471.64	49.23	345.26	203.59	11.10	197.26	-50.48
4,560.0	4,490.51	52.77	346.00	226.89	11.95	219.83	-56.26
4,590.0	4,507.93	56.22	346.05	251.30	11.50	243.52	-62.16
4,605.0	4,516.14	57.43	346.23	263.85	8.13	255.71	-65.17
4,620.0	4,524.15	57.98	346.83	276.53	4.99	268.04	-68.12
4,650.0	4,540.07	57.93	346.85	301.96	0.18	292.80	-73.91
4,681.0	4,556.51	58.00	346.70	328.24	0.47	318.38	-79.92
4,710.0	4,571.88	58.00	346.96	352.83	0.76	342.33	-85.52
4,741.0	4,588.30	58.04	347.31	379.13	0.97	367.97	-91.37
4,757.0	4,596.77	58.06	347.27	392.71	0.25	381.21	-94.36
4,787.0	4,612.47	58.84	347.84	418.26	3.06	406.17	-99.87
4,818.0	4,627.64	62.55	347.21	445.27	12.10	432.55	-105.71
4,849.0	4,640.87	66.87	347.04	473.28	13.94	459.85	-111.95
4,880.0	4,652.28	69.92	347.43	502.09	9.91	487.95	-118.32
4,910.0	4,661.90	72.65	347.60	530.49	9.12	515.68	-124.46
4,941.0	4,670.36	75.66	347.99	560.29	9.78	544.82	-130.76
4,972.0	4,677.39	78.12	347.14	590.47	8.37	574.30	-137.26
5,003.0	4,683.25	80.10	347.92	620.91	6.85	604.02	-143.83
5,033.0	4,687.70	82.83	347.07	650.56	9.52	632.97	-150.25
5,064.0	4,690.92	85.25	346.53	681.38	8.00	662.98	-157.29
5,095.0	4,692.75	87.97	346.08	712.32	8.89	693.04	-164.62
5,125.0	4,693.31	89.88	346.70	742.31	6.69	722.19	-171.68

5,218.0	4,693.59	89.78	349.28	835.26	2.78	813.13	-191.03
5,310.0	4,693.99	89.72	347.86	927.20	1.54	903.30	-209.26
5,402.0	4,694.14	90.09	347.61	1,019.18	0.49	993.20	-228.80
5,494.0	4,694.27	89.75	347.90	1,111.16	0.49	1,083.11	-248.31
5,585.0	4,694.40	90.09	347.23	1,202.14	0.83	1,171.97	-267.91
5,677.0	4,694.33	90.00	345.24	1,294.13	2.17	1,261.31	-289.80
5,768.0	4,694.26	90.09	341.53	1,384.94	4.08	1,348.46	-315.82
5,859.0	4,694.14	90.06	342.59	1,475.65	1.17	1,435.03	-343.85
5,950.0	4,694.00	90.12	341.60	1,566.37	1.09	1,521.62	-371.83
6,040.0	4,693.95	89.94	344.59	1,656.18	3.33	1,607.70	-398.00

08/25/2014

Rig Name: H&P 348

Depth = 7,764.0 Progress = 1669.0

- 06:00 DRILL LATERAL F/6095' T/6407' = 312' @ 78 FPH; WOB: 38K; RPM: 80; GPM: 450; PP: 2000; P/U: 143; S/O: 115; R/T: 127; OFF BTM TQ: 3; ON BTM TQ: 14;
- 10:00 DRILL LATERAL F/6407' T/6678' = 271' @ 67 FPH; WOB: 36K; RPM: 80; GPM: 550; PP: 2600; P/U: 138; S/O: 109; R/T: 126; OFF BTM TQ: 3; ON BTM TQ: 15; SAFETY HUDDLE DISCUSSED LOCK OUT TAG OUT;
- 14:00 DRILL LATERAL F/6678' T/6908' = 230' @ 65 FPH; WOB: 36K; RPM: 80; GPM: 550; PP: 2450; P/U: 160; S/O: 89; R/T: 120; OFF BTM TQ: 4; ON BTM TQ: 14; CLOSE LOOP 1 HR 7 BBL LOSS; SAFETY HUDDLE DISCUSSED BUFFER ZONE;
- 17:30 RIG SERVICE
- 18:00 DRILL LATERAL F/6908' T/7220' = 312' @ 78 FPH; WOB: 36K; RPM: 100; GPM: 550; PP: 2550; P/U: 160; S/O: 89; R/T: 121; OFF BTM TQ: 6; ON BTM TQ: 14; ACC PSI: 2910; MANIFOLD PSI: 1540; ANN PSI: 1500; SAFETY HUDDLE DISCUSS PROPER POWER TOOL USAGE;
- 22:00 DRILL LATERAL F/7220' T/7512' = 292' @ 73 FPH; WOB: 36K; RPM: 100; GPM: 550; PP: 2600; P/U: 175; S/O: 100; R/T: 125; OFF BTM TQ: 7; ON BTM TQ: 14; CLOSE LOOP 1 HR NO GAINS/LOSSES; SAFETY HUDDLE DISCUSS PINCH POINTS;
- 02:00 DRILL LATERAL F/7512' T/7764' = 252' @ 63 FPH; WOB: 36K; RPM: 100; GPM: 550; PP: 2700; P/U: 180; S/O: 100; R/T: 130; OFF BTM TQ: 7; ON BTM TQ: 16; SAFETY HUDDLE DISCUSS PROPER LOCK OUT TAG OUT PROCEDURES;

Vis (s/qt): 29, 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)
6,116.0	4,693.97	90.03	345.31	1,732.15	0.95	1,681.09	-417.73
6,206.0	4,693.95	90.00	345.31	1,822.12	0.03	1,768.15	-440.55
6,296.0	4,693.90	90.06	343.74	1,912.06	1.75	1,854.88	-464.56
6,386.0	4,694.26	89.48	345.21	2,001.99	1.76	1,941.59	-488.65
6,476.0	4,694.31	90.46	343.55	2,091.92	2.14	2,028.25	-512.88
6,567.0	4,694.31	89.54	343.90	2,182.80	1.08	2,115.60	-538.38
6,657.0	4,694.65	90.03	343.26	2,272.68	0.90	2,201.93	-563.82
6,748.0	4,694.65	89.97	347.41	2,363.60	4.56	2,289.91	-586.85

6,838.0	4,694.63	90.06	349.75	2,453.53	2.60	2,378.11	-604.67
6,928.0	4,694.58	90.00	350.82	2,543.34	1.19	2,466.82	-619.86
7,019.0	4,694.60	89.97	352.85	2,633.94	2.23	2,556.88	-632.78
7,109.0	4,694.65	89.97	350.54	2,723.56	2.57	2,645.92	-645.78
7,199.0	4,694.60	90.09	346.78	2,813.45	4.18	2,734.12	-663.47
7,290.0	4,694.48	90.06	345.39	2,904.44	1.53	2,822.44	-685.35
7,380.0	4,694.32	90.15	347.04	2,994.43	1.84	2,909.84	-706.79
7,470.0	4,694.16	90.06	349.80	3,084.36	3.07	2,997.98	-724.85
7,560.0	4,694.07	90.06	348.25	3,174.26	1.72	3,086.33	-741.98
7,651.0	4,694.00	90.03	348.08	3,265.23	0.19	3,175.40	-760.64
7,741.0	4,694.00	89.97	343.21	3,355.14	5.41	3,262.51	-782.95

08/26/2014

Rig Name: H&P 348

Depth = 9,299.0 Progress = 1535.0

- 06:00 DRILL LATERAL F/7764' T/8060' = 296' @ 74 FPH; WOB: 38K; RPM: 100; GPM: 550; PP: 2700; P/U: 189; S/O: 90; R/T: 122; OFF BTM TQ: 6; ON BTM TQ: 16; ACC PSI: 2860; MANIFOLD PSI: 1450; ANN PSI: 1630; SAFETY HUDDLE DISCUSS MIXING CHEMICALS;
- 10:00 DRILL LATERAL F/8060' T/8304' = 244' @ 61 FPH; WOB: 38K; RPM: 100; GPM: 423; PP: 1900; P/U: 185; S/O: 80; R/T: 125; OFF BTM TQ: 8; ON BTM TQ: 19; CLOSED LOOP 1 HR 0.5 BBL GAIN; SAFETY HUDDLE DISCUSS RELEASE TRAPPED TORQUE IN PIPE BEFORE PULLING SLIPS;
- 14:00 DRILL LATERAL F/8304' T/8623' = 319' @ 91 FPH; WOB: 38K; RPM: 100; GPM: 550; PP: 2000; P/U: 173; S/O: 80; R/T: 126; OFF BTM TQ: 9; ON BTM TQ: 20; SAFETY HUDDLE DISCUSS H2S PROCEDURES; SPR: MP1 30=190; 40=230; 50=290; MP2 30=190; 40=230; 50=300;
- 17:30 RIG SERVICE
- 18:00 DRILL LATERAL F/8623' T/8870' = 247' @ 62 FPH; WOB: 38K; RPM: 90; GPM: 500; PP: 2300; P/U: 180; S/O: 80; R/T: 126; OFF BTM TQ: 9; ON BTM TQ: 17; SAFETY HUDDLE DISCUSS MANLIFT OPERATIONS;
- 22:00 DRILL LATERAL F/8870' T/9140' = 270' @ 68 FPH; WOB: 38K; RPM: 100; GPM: 550; PP: 2350; P/U: 180; S/O: 80; R/T: 126; OFF BTM TQ: 9; ON BTM TQ: 19; SAFETY HUDDLE DISCUSS SPILLS; CLOSED LOOP 1 HR W/NO GAINS/LOSSES;
- 02:00 DRILL LATERAL F/9140' T/9299' = 159' @ 80 FPH; WOB: 38K; RPM: 100; GPM: 550; PP: 2390; P/U: 185; S/O: 80; R/T: 129; OFF BTM TQ: 9; ON BTM TQ: 19; SAFETY HUDDLE DISCUSS TRAPPED PRESSURE;
- 04:30 PERFORM CLEAN UP CYCLE W/ ATRAC IN CENTERMODE; PUMPED 2 - 40 BBL HI VIS SWEEPS; 450 GPM; 80 RPM; WORKING PIPE @ 300 FPH; LAY DOWN 90' EVERY HR;

Vis (s/qt): 28, Dens (lb/gal): 10.02, pH: 9.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,831.0	4,694.00	90.03	339.94	3,444.77	3.63	3,347.86	-811.39
7,921.0	4,694.05	89.91	344.06	3,534.43	4.58	3,433.40	-839.20

8,011.0	4,694.10	90.03	342.53	3,624.28	1.71	3,519.59	-865.07
8,102.0	4,694.03	90.06	346.76	3,715.16	4.65	3,607.28	-889.16
8,192.0	4,693.94	90.06	346.76	3,805.16	0.00	3,694.89	-909.77
8,283.0	4,693.82	90.09	352.65	3,895.91	6.47	3,784.31	-926.03
8,373.0	4,693.70	90.06	354.46	3,985.23	2.01	3,873.73	-936.13
8,463.0	4,693.68	89.97	353.24	4,074.49	1.36	3,963.21	-945.77
8,553.0	4,693.63	90.09	350.52	4,164.08	3.03	4,052.28	-958.48
8,644.0	4,693.61	89.94	345.35	4,254.96	5.68	4,141.18	-977.49
8,734.0	4,693.63	90.03	343.89	4,344.90	1.63	4,227.95	-1,001.36
8,824.0	4,693.41	90.25	343.17	4,434.78	0.84	4,314.26	-1,026.88
8,914.0	4,693.14	90.09	342.56	4,524.60	0.70	4,400.26	-1,053.40
9,004.0	4,692.98	90.12	343.24	4,614.41	0.76	4,486.28	-1,079.86
9,094.0	4,692.84	90.06	344.29	4,704.30	1.17	4,572.69	-1,105.02
9,185.0	4,692.74	90.06	346.10	4,795.26	1.99	4,660.66	-1,128.27
9,274.0	4,692.62	90.09	347.71	4,884.25	1.81	4,747.34	-1,148.43

08/27/2014

Rig Name: H&P 348

Depth = 9,299.0 Progress = 0.0

- 06:00 CONT. CLEAN UP CYCLE: CIRC @ 450 GPM; 80 RPM; WORKING PIPE @ 300 FPH; L/D 90' EVERY HR;
- 09:30 T.O.H. W/ OVER PULL LIMIT SET @ 30K OVER PICK UP WEIGHT; L/D 9 JTS FOR A TOTAL OF 16 JTS WHILE SCREWED INTO TOP DRIVE; F/8939' T/BHA; L/D DIRECTIONAL TOOLS; R/D BAKER MANIFOLD;
- 20:30 REMOVE WEAR BUSHINGS; CLEAN & CLEAR RIG FLOOR;
- 21:30 RIG SERVICE & C/O GRABBER DIES;
- 22:00 REVIEWED JSA; R/U CRT & HYD SLIPS;
- 23:30 REVIEW JSA; M/U SHOE TRACK & RAN 5.5" 17# L-80/BTC CASING T/3337';

Vis (s/qt): 28, Dens (lb/gal): 10.02, pH: 10.0

08/28/2014

Rig Name: H&P 348

Depth = 9,299.0 Progress = 0.0

- 06:00 CONT RUNNING 5.5" CASING F/3337 T/ SHOE DEPTH 9275' MD; FC @ 9231' MD; TTS @ 9144' MD; SAFETY HUDDLE REVIEWED STAYING HYDRATED;
- 14:30 CIRC 2 BTMS UP; R/U CEMENT LINES TO FLOOR; TROUBLE SHOOT CEMENTERS COMPUTER; HOLD PJSM W/HALLIBURTON & CREWS; SAFETY HUDDLE REVIEWED IDENTIFY TRIP HAZARDS;
- 16:30 TEST LINES T/5K; PUMP 20 BBLS RED DYE SPACER; 1ST LEAD SLURRY PUMPED 575 SKS; 288 BBLS; OF 11.5 PPG 2.81 YIELD; ECONO CEM; 2ND LEAD SLURRY PUMPED 190 SKS; 56 BBLS; 1.68 YIELD, VERSA CEM; TAIL SLURRY PUMPED 1400 SKS; 300 BBLS; 1.21 YIELD; VERSA CEM; CEMENTED @ 7 BPM; DROPPED PLUG; DISPLACED W/48 BBLS; 2016 GAL H2O W/10% MSA @ 6 BPM; FINAL PRESS. 1457 PSI; BUMPED PLUG W/ 2144 PSI 687 PSI; 24 BBLS; 47 SKS; CEMENT TO SURFACE; FLOAT HELD W/2

BBLS BACK

21:00 NIPPLE DOWN STACK WHILE CLEANING MUD TANKS; SET SLIPS; CUT
OFF CSG; CONT NIPPLE DOWN; INSTALL TUBING HEAD & TEST TO 5,000
PSI; L/D CRT; RIG RELEASED;