

FORGE Energy
UL 13 JAFFREY 2123H
API Number: 42-003-45556

08/08/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0

08/17/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0

08/20/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0
Finish location construction

08/21/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0
Water Meter

08/22/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0
Repair pits and water line

08/27/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0
Line Pits

08/28/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0
lining pits

08/29/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0
Location completed/Pits lined/Water on liner

08/30/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0
SET CONDUCTOR PIPE/2-MH/ AND CEMENT

09/08/2013

Rig Name: UNKNOWN RIG
Depth = 0.0 Progress = 0.0
RIG DOWN,RIG DOWN TONG CYLINDERS & HOSES,WEIGHT INDICATOR,LINE

GUIDE,BELLS,CASING ELEVATORS,RIG DOWN MUD PUMPS,RIG DOWN BACKYARD,SEPERATOR,SERVICE LOOPS,KELLY HOSE, TOP DRIVE, TOP DRIVE TRACK, LOAD OUT 3RD PARTY CASING EQUIPMENT, RIG DOWN TRASH PUMPS, UNPLUG & ROLL UP ELEC LINES FROM VFD HOUSE BRIDLE UP, RIG DOWN FLOOR, RIG DOWN CATWALK & BOP HANDLER ROLL UP HYD LINES IN SUB

09/09/2013

Rig Name: UNKNOWN RIG

Depth = 0.0 Progress = 0.0

RIG DOWN, MOVE RIG TO NEW LOCATION, GET DERRICK OFF SUB, GET DERRICK READY TO MOVE, LOAD OUT PUMPS, GENERATORS PACKAGE, SCR HOUSE, DIESEL TANK, PARTS HOUSE, GAS BUSTER, TRIP TANK, UNABLE TO SET PITS RESERVE PIT BUILD 38' FROM CENTER OF HOLE NEED TO BE 45', SET HOUSES, DRILL PIPE, SET WHAT WE CAN ON LOCATION, LOCATION BUILDER ON THE WAY TO MOVE RESERVE, 20% RIG ON NEW LOCATION, 38 HRS FROM RIG RELEASE, EST SPUD 9-11-13

09/10/2013

Rig Name: UNKNOWN RIG

Depth = 0.0 Progress = 0.0

WAIT ON TRUCK & CRANES & DAYLIGHT.

HELD SAFETY MEETING WITH RIG EXPRESS MOVERS, LATSHAW RIG CREW, TOOLPUSHER, RIG EXPRESS SAFETY PERSONAL, SUPERVISOR ON SETTING RIG IN , SUSPENDED LOADS, KEEPING GOOD COMMUNICATION, BUFFER ZONES, PINCH POINTS.

SET MATTING BOARDS, SET PITS, PUMPS, GENERATORS PACKAGE, SCR HOUSE, DIESEL TANK, PARTS HOUSE, GAS BUSTER, TRIP TANK, SET SUB, RAISED SUB, 80% RIG ON NEW LOCATION, 20% RIG ON OLD LOCATION, 80% SET, 50% rig up, 62 HRS FROM RIG RELEASE, EST SPUD 9-11-13, TRUCK LEFT @ 8:00 PM.

TRUCKS SHUT DOWN AT 8:00 PM DUE TO HOURS. WAIT ON DAYLIGHT TO COMPLETE SETTING RIG IN AND RIGGING UP

09/11/2013

Rig Name: UNKNOWN RIG

Depth = 0.0 Progress = 0.0

WAIT ON DAYLIGHT TRUCKS & CRANES TO COMPLETE SETTING RIG IN AND RIGGING UP. HELD SAFETY MEETING WITH RIG EXPRESS MOVERS, LATSHAW RIG CREW, TOOLPUSHER, RIG EXPRESS, SUPERVISOR ON SETTING RIGGING UP , SUSPENDED LOADS, KEEPING GOOD COMMUNICATION.

INSTALLING SPREADER BEAM BETWEEN A LEGS ON DERRICK, DRESS OUT DERRICK, SET DERRICK & PIN TO RIG FLOOR, RAISE A LEGS, SET TOP DOGHOUSE, STRING BLOCKS UP, RUN ELECTRIC LINES TO DRAWWORKS, TOP DOG HOUSE, SPOOL DRILLING LINE ON DRAWWORKS, TIGHTEN CLAMPS ON HORSES HEAD, TEST BREAKS, FINISH PREPPING DERRICK TO RAISE, RAISE DERRICK AND PIN DERRICK RASIE @ 22:30, RIG UP HOISTS, BRIDLE DOWN, R/U CATWALK WINCH, RIG UP TOPDRIVE TRACK, TRUCKS OFF LOCATION @ 16:00, 100% SET IN, 90% RIG UP, 86 HRS FROM RIG RELEASE, EST SPUD 9-11-13.

09/12/2013

Rig Name: UNKNOWN RIG

Depth = 0.0 Progress = 0.0

PULL TOP DRIVE UP VDOOR, LD ON FLOOR, HOOK BECKIT, RAISE AND PIN TOP DRIVE. START FILLING PITS, HOOK UP OVER FLOW, ROLL UP LOOSE CABLES ON GROUND. HELD SAFETY MEETING WITH VENDORS/FORGE/LATSHAW PERSONNEL. HALLIBURTON LED SAFETY TOPIC ON BBP PROCESS. HANG SERVICE LOOP IN DERRICK. RIG UP RIG FLOOR,

CLEAN AND DRIFT 9 5/8" CASING, 46 JTS OF 9 5/8" 36# J-55 STC, NO REJECTS. INSPECTED HWDP/DC. RIG UP BACKYARD. PULL TOOLS FOR FLOOR FINISH, TIE BACK SERVICE LOOP AND DOG NUTS ON DRIDLE LINE. HANG WEIGHT INDICATOR. SERVICING TOP DRIVE. TOP DRIVE TECHNICIAN ON LOCATION. R/U HYD T/TONG CYLINDERS, REMOVE SHIPPING BRACKET ON TOP DRIVE & INSTALL JUMP, INSTALL CONDUCTOR (RISER) PIPE, R/U FLOW LINE, HAVE TOP DRIVE TECH ON STANDBY, INSPECT DRILL PIPE (DIAMOND J), INSTALL VENT LINE T/SEPERATORCHANGE DIES ON TOP DRIVE GRIPPER, R/U BAILS & ELEVATORS, FINISH R/U STAND PIPE, R/U HAWKJAW, R/U DRESSER SLEEVE ON FLOW LINE, R/U FILL UP LINE ON CONDUCTOR, R/U TRIP TANK, TOP DRIVE TECH INSPECTION ON TOP DRIVE, PERFORM PRE-SPUD INSPECTION ON RIG, (COMPANY REP. & RIG MANAGER. & CREW, FUNCTION TEST TOP DRIVE, PRESSURE TEST MUD LINES 1000 PSI,

09/13/2013

Rig Name: LATSHAW #34

Depth = 1,816.0 Progress = 1739.0

STRAP BHA, PRESSURE TEST MUD LINES T/1000 PSI F/15 MIN., RIG SERVICE, PJSM W/CREW (HAND PLACEMENT, HANDLING TUBLARS, GOING BACK INTO DRILLING MODE) P/U BHA & M/U BIT, 12.25 DB-PDC, 8-16 JETS, TYPE SS-516 -XU, SN# D-3773, (TRRC NOTIFIED OF SPUD TIME JOB# 12515). TAG CEMENT AT 77'. SPUD AT 12:30. R/DRILL F/77' - 438' = 361', AT 103 FPH, WOB: 16, RPM: 90, SPM: 196, GPM: 695, PP: 1025, P/U: 84, S/O: 82, R/T: 83, ON BOT TQ: 3000; OFF BOT TQ: 1000. R/DRILL F/438' - 834' = 396', AT 198 FPH, WOB: 29, RPM: 100, SPM: 200, GPM: 702, PP: 1300, P/U: 87, S/O: 83, R/T: 85, ON BOT TQ: 8000; OFF BOT TQ: 1000, R/DRILL F/834' - T/1433' = 599', AT 171 FPH, WOB: 35, RPM: 120, SPM: 200, GPM: 702, PP: 1300, P/U: 100K, S/O: 90K, R/T: 95K, ON BOT TQ: 8000; OFF BOT TQ: 2000, HYD. HOSE ON AUTO CATWALK BROKE, REPLACE SAME, R/DRILL F/1433' - T/1816' = 383', AT 127 FPH, WOB: 35, RPM: 120, SPM: 200, GPM: 702, PP: 1800, P/U: 110K, S/O: 100K, R/T: 105K, ON BOT TQ: ; 12000, OFF BOT TQ: 2000, MIX & PUMP STARCH 75SX, PUMP 1ST. HIGH VIS SWEEP 80 BBLS, T.D. SURFACE SECTION 12.25, @ 1816 FT., CIR. & COND HOLE, PUMP 2T.D. SURFACE SECTION 12.25, @ 1816 FT., CIR. & COND HOLE, PUMP 2ND HIGH VIS SWEEP, CIR. SWEEP OUT, HOLE CLEAN. ND HIGH VIS SWEEP, P.O.O.H. F/1816 - T/994, PUMP & REAM FIRST 5 STDS OUT OF HOLE DUE TO DRAG, OVER PULL F/10K - T/30K

Vis (s/qt): 31, Dens (lb/gal): 8.40, pH: 10.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
190.0	0.00	0.48	340.43	0.00	0.00	0.00	0.00
252.0	0.00	0.48	320.35	0.00	0.00	0.00	0.00
313.0	0.00	0.48	318.02	0.00	0.00	0.00	0.00
374.0	0.00	0.48	327.25	0.00	0.00	0.00	0.00
404.0	0.00	0.40	328.75	0.00	0.00	0.00	0.00
462.0	0.00	0.31	319.03	0.00	0.00	0.00	0.00
558.0	0.00	0.22	315.91	0.00	0.00	0.00	0.00
649.0	0.00	0.22	334.02	0.00	0.00	0.00	0.00
751.0	0.00	0.22	305.85	0.00	0.00	0.00	0.00
925.0	0.00	0.22	226.04	0.00	0.00	0.00	0.00
1,019.0	0.00	0.40	236.24	0.00	0.00	0.00	0.00
1,113.0	0.00	0.48	232.24	0.00	0.00	0.00	0.00
1,210.0	0.00	0.48	240.70	0.00	0.00	0.00	0.00
1,304.0	0.00	0.40	232.02	0.00	0.00	0.00	0.00
1,399.0	0.00	0.48	256.32	0.00	0.00	0.00	0.00
1,493.0	0.00	0.31	233.95	0.00	0.00	0.00	0.00

1,590.0	0.00	0.31	226.75	0.00	0.00	0.00	0.00
1,693.0	0.00	0.22	230.62	0.00	0.00	0.00	0.00
1,779.0	0.00	0.09	190.71	0.00	0.00	0.00	0.00

09/14/2013

Rig Name: LATSHAW #34

Depth = 1,816.0 Progress = 0.0

WASHED F/990 - 955, TOOH F/955 - 370 15K DRAG. STAND BACK 15 JOINTS OF HWDP. L/D BHA. PJSM W/TESCO ON RIGGING UP AND RUNNING 9 5/8" J-55 36# STC. RIG UP TESCO CRT. MAKE UP AND RUN 9 5/8" 36# J-55 STC, SHOE DEPTH @ 1812' (4' OFF BOTTOM), FC DEPTH @ 1769'. LAID DOWN JOINTS NUMBERED 2 AND 29 DUE TO CROSSING THREADS WHILE MAKING UP. WASH DOWN LAST 2 JOINTS OF PIPE. CIRCULATE BOTTOMS UP. RIG UP 9 5/8" SWEDGE FOR CONTINUAL CIRCULATION WHILE RIGGING DOWN TESCO TOOL. R/D TESCO CDS TOOL. RIG UP 16' BELLS AND CASING ELEVATORS. R/U CEMENTING HEAD AND LINES. PJSM W/ HALLIBURTON IN WELLSITE SUPERVISOR'S OFFICE REGARDING OVERALL SAFETY DURING JOB AND CEMENTING PROCEDURE. PUMP 20 BBLS RED DYE SPACER, PUMP LEAD CEMENT - 625 SKS, PUMP TAIL CEMENT - 130 SKS, DISPLACE WITH 138 BBLS FW, FINAL CIRCULATING PRESSURE 600 PSI, BUMP PLUG WITH 1100 PSI, FLOAT HELD. 188 SACKS (62 BBLS) OF CEMENT CIRCULATED TO SURFACE, 100% RETURNS DURING JOBS. WAIT ON CEMENT, CLEAN & JET PITS, CHECK VALVES & SEATS IN MUD PUMPS, REPAIR HYD. HOSE ON IRON ROUGHNECK (HAWKJAW), MAKE CELLAR READY TO CUT OFF CONDUCTOR, CUT CONDUCTOR, ROUGH CUT 9 5/8 CSG T/INSTALL WELLHEAD, FINAL CUT CSG.

Vis (s/qt): 32, Dens (lb/gal): 9.10, pH: 8.0

09/15/2013

Rig Name: LATSHAW #34

Depth = 1,830.0 Progress = 18.0

FINISH WELDING HEAD, TEST HEAD TO 2400 PSI. TEST OK. PJSM W/MONAHAN'S NIPPLE UP CREW. BECAUSE PRODUCTION REQUESTED TO HAVE THE CASING HEAD PLACED AT GROUND LEVEL (24" HIGHER THAN PREVIOUS) WE COULD NOT FIT THE STACK OVER FOR NIPPLE UP. NIPPLE DOWN DRILLING SPOOL. NIPPLE UP BOP STACK. NIPPLE UP DRILLING SPOOL AND DSA. INSTALL TURN BUCKLES, FLOW LINE, ACCUMULATOR LINE. RIG UP EXPRO POWER CHOKE. TEST B.O.P.E. & CHOKE EQUIP., TEST CSG., R/U DIRECTIONAL EQUIP., P/U & M/U DIRECTIONAL BHA & BIT, T.I.H., (TAG CEMENT @ 436 FT. DRLG OUT CEMENT PLUG F/436 - T/676 FT., CONTINUE TO T.I.H. TO 1747 FT., TAG CEMENT, DRLG OUT FLOAT EQUIP. F/1747 - 1812 FT., DRLG OUT INTO NEW FORMATION, F/1812 FT. - T/1830 FT.

09/16/2013

Rig Name: LATSHAW #34

Depth = 4,312.0 Progress = 2482.0

R/DRILL F/1830' - 1843' = 13' AT 13 FPH, WOB: 14, RPM: 30/87, SPM: 102, GPM: 359, PP: 850, DIFF: 350, P/U: 85, S/O: 85, R/T: 85, ON BOT TQ: 1000; OFF BOT TQ: 3000. CHANGING SWAB ON PUMP #2. RIG SERVICE. R/DRILL F/1843' - 2223' = 380' AT 109 FPH, WOB: 28, RPM: 100/100, SPM: 178, GPM: 625, PP: 1600, P/U: 86, S/O: 86, R/T: 86, ON BOT TQ: 7000; OFF BOT TQ: 2000. CHANGING SWAB ON PUMP #1. HAD TO DRILL AT 350 GPM TILL 10:00. R/DRILL F/2223' - 3032' = 809' AT 203 FPH, WOB: 28, RPM: 100/100, SPM: 178, GPM: 625, PP: 2200, P/U: 95, S/O: 95, R/T: 95, ON BOT TQ: 8000; OFF BOT TQ: 2000. R/DRILL F/2223' - 3959' = 502' AT 143 FPH, WOB: 30, RPM: 100/90, SPM: 178, GPM: 625, PP: 2200, P/U: 95, S/O: 95, R/T: 95, ON BOT TQ: 8000; OFF BOT TQ: 2000. HOLD PRE-JOB CURVE MEETING, DISCUSS UP COMING CURVE & TANGENT, DRILLING OPER., TIME DRILLING, RIG

SETTINGS, GPM, RPM, ECT., BUILD RATES, WINDOWS, PROPOSED GUIDE LINES. R/DRILL F/3959' - T/4312' = 353' AT 44 FPH, WOB:30, RPM:100/80, SPM:164, GPM:575, PP:2100, DIFF. PSI 525, P/U:120, S/O:115, R/T:118, ON BOT TQ:8000; OFF BOT TQ:2000., AT KOP OF 3960' START TIMING DRILLING AT 60' PER HOUR. R/DRILL F/4123' - T/4312' = 189' AT 47 FPH, WOB:30, RPM:100/80, SPM:164, GPM:575, PP:2100, DIFF. PSI 525, P/U:120, S/O:115, R/T:118, ON BOT TQ:8000; OFF BOT TQ:2000.

Vis (s/qt): 28, Dens (lb/gal): 9.98, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
1,914.0	1,913.97	0.03	108.30	-2.08	0.07	0.43	-7.18
2,006.0	2,005.97	0.03	257.08	-2.00	0.06	0.41	-7.18
2,101.0	2,100.97	0.04	46.08	-2.08	0.08	0.43	-7.18
2,291.0	2,290.97	0.04	64.40	-2.08	0.01	0.51	-7.06
2,481.0	2,480.00	0.09	48.83	-2.18	0.03	0.64	-6.88
2,671.0	2,670.00	0.18	33.00	-2.45	0.05	1.00	-6.60
2,861.0	2,860.97	0.16	64.85	-2.70	0.05	1.34	-6.22
3,051.0	3,050.97	0.03	248.55	-2.75	0.10	1.44	-6.03
3,241.0	3,240.97	0.10	270.28	-2.78	0.04	1.42	-6.24
3,432.0	3,431.97	0.09	117.84	-2.72	0.10	1.35	-6.28
3,622.0	3,621.97	0.04	193.74	-2.56	0.05	1.21	-6.16
3,812.0	3,811.97	0.11	43.61	-2.59	0.08	1.27	-6.05
3,934.0	3,933.97	0.03	46.53	-2.68	0.07	1.38	-5.95
3,970.0	3,969.96	0.95	174.09	-2.38	2.69	1.09	-5.91
4,002.0	4,001.93	3.79	175.36	-1.07	8.88	-0.23	-5.80
4,033.0	4,032.80	6.73	175.15	1.74	9.48	-3.06	-5.56
4,065.0	4,064.46	9.78	173.60	6.30	9.56	-7.63	-5.10
4,097.0	4,095.84	12.88	171.28	12.55	9.72	-13.87	-4.32
4,129.0	4,126.83	15.85	171.28	20.46	9.32	-21.72	-3.18
4,160.0	4,156.43	18.67	170.86	29.64	9.13	-30.81	-1.75
4,192.0	4,186.53	21.02	170.39	40.47	7.35	-41.51	0.03
4,223.0	4,215.22	23.52	169.30	52.20	8.12	-53.08	2.07
4,255.0	4,244.26	26.11	168.87	65.62	8.15	-66.27	4.58
4,287.0	4,272.69	28.53	167.93	80.31	7.70	-80.66	7.54

09/17/2013

Rig Name: LATSHAW #34

Depth = 5,056.0 Progress = 744.0

R/DRILL F/4312' - T/4407' = 95' AT 48 FPH. RIG SERVICE/TROUBLESHOOTING TOP DRIVE. R/DRILL F/4407 - T/4502' = 95' AT 38 FPH. TROUBLE SHOOT TOP DRIVE. R/DRILL F/4502' - 4620'. START TANGENT @ 4625' AND HOLD 62 DEGREES. R/DRILL F/4620 - T/4665 FT. @ 23 FPH. DOWNLINKING DIRECTIONAL TOOL, PREPARING TO DRILL TANGENT @ 62 DEGREES. START TANGENT @ 4625' AND HOLD 62 DEGREES. R/DRILL F/4620 - T/4665 FT. @ 23 FPH, R/DRILL F/4665 - T/4707 FT. @ 21 FPH. END TANGENT WITH 120' OF UNDER 1 DEG/100'. DISCUSS END OF TANGENT WITH MANAGEMENT TEAM, DOWNLINK DIRECTIONAL TOOLS, RESET PARAMETERS/DRILL F/4770 - T/4996 FT.= 226 @ 57 FPH. (CHANGE IN PARAMETERS TO DRILL LOWER CURVE),R/DRILL F/4996 - T/5056 FT.= 60 @ 24 FPH, WOB 30K, RPM 70, SPM 176, GPM 619,PSI 2500,PU 135, ROT 120, SO 115, ON BTM TRQ 5000, OFF BTM TRQ 4000. SPR #1 PUMP 20/180,30/260,40/330, #2 PUMP 20/170, 30/250, 40/330

Vis (s/qt): 29, Dens (lb/gal): 10.02, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,319.0	4,300.39	31.49	166.84	96.31	9.40	-96.27	11.04
4,350.0	4,326.41	34.37	166.32	113.16	9.34	-112.67	14.96
4,382.0	4,352.39	37.07	166.25	131.38	8.42	-130.81	19.38
4,414.0	4,377.38	40.28	166.30	151.82	9.86	-150.24	24.04
4,446.0	4,401.13	43.96	167.05	173.26	11.73	-171.13	28.89
4,477.0	4,422.77	47.47	167.02	195.45	11.32	-192.75	33.87
4,508.0	4,443.00	51.05	167.91	218.93	11.53	-215.64	39.13
4,540.0	4,462.45	54.07	167.91	244.33	9.68	-240.44	44.64
4,572.0	4,480.54	57.06	168.09	270.72	9.35	-266.25	50.12
4,595.0	4,492.64	59.48	168.16	290.28	10.52	-285.39	64.02
4,625.0	4,507.28	62.10	168.05	316.46	8.73	-311.02	59.52
4,650.0	4,518.95	62.25	168.37	338.56	0.98	-332.66	64.02
4,681.0	4,533.79	62.30	168.18	365.77	0.57	-359.31	69.59
4,712.0	4,548.21	62.24	168.45	393.20	0.79	-386.18	75.15
4,745.0	4,563.17	62.21	168.60	422.62	0.43	-415.02	80.96
4,790.0	4,583.39	64.37	168.83	462.80	4.82	-454.44	88.82
4,835.0	4,601.52	68.11	168.36	503.96	8.37	-494.80	96.97
4,880.0	4,616.24	73.68	167.94	546.46	12.41	-536.40	105.40
4,925.0	4,626.81	79.16	167.50	590.18	12.21	-579.12	115.00
4,970.0	4,633.40	83.98	167.36	634.68	10.73	-622.56	124.69
5,031.0	4,636.83	89.57	166.53	695.56	9.26	-681.86	138.44

09/18/2013

Rig Name: LATSHAW #34

Depth = 5,701.0 Progress = 645.0

R/DRILL F/5056 - T/5300 = 488 @ 139 FPH, WOB 30, RPM 120/92, SPM 164, PP 2200, PU 130, SO 100, RTE 120, ONBT 15, OFFBT 3. TIGHTEN ROTATING HEAD, TIGHTEN TURN BUCKELS, PUT 16 SKS OF QUICK CRETE IN CELLAR. R/DRILL F/5300 - T/5332 = 32 @ 64 FPH, WOB 30, RPM 120/92, SPM 164, PP 2200, PU 130, SO 100, RTE 120, ONBT 15, OFFBT 3. TOP DRIVE SERVICE, RIG SERVICE. REPLACE SHOT PIN ASSEMBLY, TOP DRIVE REPAIR, TOP DRIVE TECHNICIAN ON LOCATION. R/DRILL F/5333 - T/5598 = 264 @ 66 FPH, WOB 40, RPM 75, GPM 639 SPM 182, PP 2900, PU 140, SO 125, ROT 125, ONBT 16, OFFBT 3. R/DRILL F/5598 - T/5701 = 103 @ 69 FPH, WOB 40, RPM 75, GPM 639 SPM 182, PP 2900, PU 140, SO 125, ROT 125, ONBT 16, OFFBT 3. ROTATOR LOCK ON TOP DRIVE STUCK IN CLOSED POSITION, (GLOBAL DRILLING SUPPORT) TECHS ON LOCATION TO FIX PROBLEM, WHILE WORKING ON TOP DRIVE CALLED BUTCHES TO CEMENT CONDUCTOR & SURFACE BACK TO SURFACE, USED 5.89 YDS., CHANGED OUT LINER & SWAB ON #1 MUD PUMP, WASHED AND CLEANED RIG, WHILE TOP DRIVE SHUT DOWN WORKED PIPE EVERY HR. (NO DRAG ON P/U, OR S/O. RIG MANAGER CALLED VARCO TOP DRIVE TECH @ (23:30 HRS) GDS TECHS NOT FIXING PROBLEM, VARCO ON WAY TO LOCATION. MONITOR FOR FLUID LOST WHILE CIR., JET SAND TRAP UNDER SHALE SHAKERS, VARCO PERSONAL ARRIVED @ 01:30 WE HAVE 3 TOP DRIVE TECHS ON LOCATION.

Vis (s/qt): 29, Dens (lb/gal): 9.90, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
5,123.0	4,637.50	89.60	166.60	787.56	0.30	-771.38	159.65
5,214.0	4,637.94	89.85	166.60	878.55	0.35	-859.94	180.57
5,306.0	4,638.01	90.06	166.75	970.55	0.28	-949.47	201.77
5,398.0	4,637.42	90.68	167.42	1,062.55	0.99	-1,039.14	222.33

5,490.0	4,637.00	89.85	165.48	1,154.53	2.30	-1,128.57	243.88
5,581.0	4,636.39	90.92	163.45	1,245.43	2.53	-1,216.24	268.25

09/19/2013

Rig Name: LATSHAW #34

Depth = 7,412.0 Progress = 1711.0

TROUBLESHOOTING TOP DRIVE. REPLACE SHOT PIN ASSEMBLY, CHECK VALVES, CYLINOIDS, CLEAN TRASH OUT OF SYSTEM, AND CHANGE OIL. WORKING PIPE EVERY HOUR. NO DRAG SEEN. PUMPING AT 320 GPM. R/DRILL F/5701 - T/5860 = 159 @ 80 FPH, WOB 38, RPM 80, GPM 639 SPM 182, PP 2800, PU 140, SO 125, ROT 125, ONBT 16, OFFBT 3. R/DRILL F/5860 - T/6325 = 465 @ 116 FPH, WOB 38, RPM 120, GPM 639 SPM 182, PP 2800, PU 140, SO 125, ROT 125, ONBT 16, OFFBT 3. CLOSE LOOP SYSTEM CHECK FOR LOSES (NO LOSES), WASH AND CLEAN RIG, R/DRILL F/6325 - T/6869 = 544 @ 136 FPH, WOB 38, 100% DOLOMITE, MUD WT. 10.0, VIS 28, RPM 120, GPM 639 SPM 182, PP 3400, PU 145, SO 100, ROT 120, ONBT 16, OFFBT 3.

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)
5,676.0	4,635.67	89.94	165.96	1,340.34	2.84	-1,307.86	293.32
5,771.0	4,635.95	88.52	165.48	1,435.30	1.57	-1,399.92	316.74
5,866.0	4,638.69	89.38	165.33	1,530.24	0.92	-1,491.83	340.68
5,961.0	4,640.93	87.90	168.28	1,625.16	1.56	-1,583.70	364.77
6,056.0	4,644.23	88.12	165.49	1,720.06	0.31	-1,675.57	388.72
6,151.0	4,647.34	88.12	165.49	1,814.97	0.08	-1,767.47	412.58
6,246.0	4,648.70	90.25	166.64	1,909.94	2.58	-1,859.65	435.51
6,341.0	4,648.31	90.22	168.78	2,004.94	1.20	-1,952.94	456.54
6,436.0	4,648.24	89.88	168.70	2,099.92	1.03	-2,045.29	475.90
6,532.0	4,648.57	89.72	166.82	2,195.90	1.96	-2,139.10	496.26
6,627.0	4,648.72	90.09	167.71	2,290.90	1.01	-2,231.77	517.20
6,722.0	4,648.60	90.06	168.48	2,385.89	0.81	-2,324.72	536.80
6,817.0	4,648.19	90.43	169.58	2,480.83	1.23	-2,417.83	554.87
6,912.0	4,647.42	90.49	169.96	2,575.72	0.40	-2,511.47	571.74
7,007.0	4,646.43	90.71	168.92	2,670.64	1.12	-2,604.86	589.15
7,102.0	4,645.89	89.94	167.80	2,765.61	1.43	-2,697.90	608.31
7,197.0	4,645.99	89.94	165.92	2,860.61	1.99	-2,790.41	629.91
7,292.0	4,646.07	89.97	163.59	2,955.52	2.45	-2,882.06	654.89

09/20/2013

Rig Name: LATSHAW #34

Depth = 8,835.0 Progress = 1423.0

R/DRILL F/7412 - T/7973 = 564 @ 124 FPH, WOB 38, RPM 120, GPM 639 SPM 182, PP 3400, PU 145, SO 100, ROT 120, ONBT 20, OFFBT 6, MAX FORMATION GAS @ 6130 FT. 340 UNITS. DETECTED H2S AT SHAKER. PICKED UP OFF BOTTOM AND CIRCULATED. ADDED ADDITIONAL H2S SCAVENGER TO DRILLING FLUID. H2S CONCENTRATION IN DRILLING FLUID DECREASED TO 1 PPM. R/DRILL F/7973 - T/8455 = 482 @ 120.5 FPH, WOB 38, RPM 120, GPM 639 SPM 182, PP 3400, PU 145, SO 100, ROT 120, ONBT 20, OFFBT 9. R/DRILL F/8455 - T/8835 = 380 @ 76' FPH, WOB 38, RPM 120, GPM 359 SPM 102, PP 1700, PU 150, SO 100, ROT 125, ONBT 20, OFFBT 9. TRY TO DOWNLINK UNABLE TO DOWNLINK DUE TO LOW GPM

Vis (s/qt): 29, Dens (lb/gal): 9.50, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,387.0	4,646.35	89.69	162.64	3,050.29	1.04	-2,972.96	682.49
7,481.0	4,646.60	90.00	163.22	3,144.04	0.70	-3,062.82	710.08
7,576.0	4,646.55	90.06	165.66	3,238.93	2.57	-3,154.38	735.56
7,671.0	4,646.55	89.94	165.70	3,333.90	0.14	-3,246.38	759.05
7,766.0	4,646.83	89.72	168.06	3,428.89	2.49	-3,338.90	780.59
7,861.0	4,647.06	90.00	169.16	3,523.86	1.19	-3,432.02	799.35
7,956.0	4,647.16	89.88	169.52	3,618.79	0.40	-3,525.38	816.93
8,051.0	4,647.21	90.06	173.65	3,713.47	4.35	-3,619.34	830.83
8,145.0	4,647.11	90.06	173.46	3,806.88	0.20	-3,712.74	841.38
8,240.0	4,646.78	90.34	173.12	3,901.32	0.46	-3,807.09	852.48
8,336.0	4,646.47	90.03	171.00	3,996.96	2.23	-3,902.17	865.73
8,431.0	4,646.42	90.03	168.50	4,091.85	2.63	-3,995.64	882.63
8,526.0	4,646.50	89.88	165.80	4,186.84	2.84	-4,088.26	903.76
8,620.0	4,646.62	89.97	164.16	4,280.77	1.75	-4,179.04	928.11
8,716.0	4,646.60	90.06	162.16	4,376.54	2.09	-4,270.92	955.93
8,810.0	4,646.52	90.03	161.53	4,470.14	0.67	-4,360.24	985.22

09/21/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 306.0

CHANGE OUT LINER & MODULE STUDS, WEAR RING, #2 MUD PUMP, PUT PUMP ON HOLE 105 STKS, (OK), #1 PUMP DOWN DUE TO LINER GASKET, CHANGE LINER GASKET, HAVE H2S DRILL WITH ALL CREWS 21 PERSONAL ON LOC. ALL ACCOUNTED FOR, R/DRILL F/8835 - T/9005 = 170 @ 340 FPH, WOB 35, RPM 120, GPM 615 SPM 182, PP 3525, PU 145, SO 100, ROT 120, ONBT 20, OFFBT 6, MAX FORMATION GAS @ 9005 FT. 30 UNITS, TAKE SURVEY CALL MGMT., TRY TO DOWN LINK TOOLS, DECIDE TO DRILL TO ORIGINAL TD DETPH 9141FT. APPROVED BY MGMT. FORGE. R/DRILL F/9005 - T/9141 = 135 @ 90 FPH, WOB 35, RPM 120, GPM 615 SPM 182, PP 3525, PU 145, SO 100, ROT 120, ONBT 20, OFFBT 6, MAX FORMATION GAS @ 9005 FT. 30 UNITS, HOLD H2S DRILL ALL PERSONAL SAFE MUSTER STATION, TD @ 9141', @ 16:00 HRS. CIR. & COND. HOLE CLEAN, PUMP HIGH VIS SWEEPS WHILE CIR. HOLE CLEAN & REC. PIPE 80 FT. UP & DOWN. WORK PIPE UNABLE TO CIR WORK ON BOTH PUMPS, PUMPS #1 POP OFF LEAKING ON A WELD, GO THROUGH PUMP #2 FOUND SOME POPE UNDER A VALVE CIR. & COND. HOLE CLEAN, PUMP HIGH VIS SWEEPS WHILE CIR. HOLE CLEAN & REC. PIPE 80 FT. UP & DOWN, TOO H F/ 9141' - 8191' = 950' @ 380' FPH, PULLING 40-60K OVER FOR FIRST 5 STANDS. NORMAL DRAG AFTER THAT. CIR & COND. INFLUX OUT (H2S) 600 PPM @ 04:45 300 PPM, RIG HAD 2 H2S DRILLS & 2 BOP DRILLS IN 24HRS PERIOD.

Vis (s/qt): 29, Dens (lb/gal): 9.95, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	Vert Sec (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
8,980.0	4,646.48	90.00	158.38	4,638.80	1.85	-4,538.50	1,043.48
9,000.0	4,646.50	89.85	158.13	4,658.57	1.47	-4,538.50	1,050.88
9,095.0	4,646.71	89.91	156.35	4,752.16	1.88	-4,626.10	1,087.64

09/22/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

CIR. & COND. HOLE F/H2S GAS 300 PPM @ SHAKERS, DISCUSS W/MGMT SPOTTING HIGH WT. & HIGH VIS PILL, ALSO SECOND HIGH VIS PILL. @ 10:30 HRS H2S @ SHAKERS 10

PPM , TOP PITS 5 PPM, MUD ENGINEER, SAFETY SOLUTIONS, CATALYST ON LOCATION, CHG. OUT ROTATING HEAD RUBBER, 0 PPM H₂S @ PITS, 0-5 H₂S @ SHAKERS, CATALYST LIQUID READINGS.REPAIR SHAKER SLIDES, T.I.H. F/8150 - T/9141 FT. ORIGINAL TD, 300 GPMS, STKS 80, SO WT. 10-15K, PARAMETERS BASED ON DIRECTIONAL TOOL OPERATION, CIR. & COND. BTMS UP WHILE MIXING HIGH VIS 45-50, HIGH WT. 10.8 PILL, USING CALCIUM CARBONATE, FOR WT. MATERIAL, TEX ZAN FOR VIS, & 1 GALLON H₂S CHEMICAL PER BBL = 80 GALLONS TOTAL,BUILDING 80 BBL, PILL. (MUD ENGINEER ON LOCATION), MONITOR SHAKERS & PITS FOR H₂S LEVELS WHILE MIXING PILLS, (SAFETY SOLUTIONS REP.)TRIP GAS 208 UNITSFLOW CHECK, 1/2 BBL -T/1 BBL MIN FLOW (WATER) CALL MGMT. VISIT ABOUT OPERATIONS AHEAD, CLOSE FLOW LINE VALVES, POOH F/9141 - T/1749 FT. MIX HIGH WEIGHT PILL 80 BBLS WHILE TRIPPING OUT, PILL WT. 12.5 PPG, VIS 45+ WILL PUMP 40 BBLS AT TOP OF CURVE, FLOW CHECK CALL MGMT., OPEN UP WELL CLOSE FLOW LINE VALVES, TO TOO H 9 STD,FLOW LINE SENSOR STARTED LEAKING SHUT WELL IN INITIAL SHUT IN CSG PSI 100 PSI MONITOR PSI PSI UP TO 300 PSI. CALL MGMT. VISIT ABOUT OPERATIONS AHEAD. CIRC BOTTOMS UP,NO GAS TO SURFACE
Vis (s/qt): 29, Dens (lb/gal): 9.90, pH: 10.0

09/23/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

HOLD PJSM W/CREW STRIPPING IN HOLE ACTIVITIES,ADJUST ANNULAR PSI T/300 PSI TRY TO STRIP IN HOLE, NO SUCCESS, DROP ANNULAR T/200 PSI TRY STRIP IN HOLE, NO SUCCESS,CALL MGMT. DISCUSS PROCEDURE GOING IN HOLE, T.I.H. W/10 STDS TO 3900 FT. CLOSE WELL IN MONITOR PRESSURE, 300 PSI, OPEN CHOKE CIR 1800 STKS @ 30 SPM, MONITORING PRESSURES, CHOKE 250, SPP 400 @ 50% CHOKE OPEN, MONITOR GAIN & LOSS, SHUT WELL IN MONITOR PRESSURE WHILE CIR. MUD, MONITOR GAIN & LOSS, SHUT WELL IN MONITOR PRESSURE WHILE CIR. MUD WT. IN 10.2 PPG MUD WT., OUT 10.0 PPG, VIS 29,JET VOLUME IN PITS TO MONITOR GAIN LOSS,HAVE TIW VALVE & GRAY VALVES ON RIG FLOOR READY FOR USE. MUD ENGINEER & CATALYS ENGINEER ON LOCATION. 67 UNITS GAS BTMS UP,CLOSE WELL IN, ADJUST ANNULAR PRESSURE F/800 PSI, T/300 PSI, T.I.H. T/5056 FT BTM CURVE,HOLD CONSTANT PSI OF 250 ON CSG. UNTIL LOST ANNULAR PSI. BUILD ANNULAR PSI BACK @ 15:15 HRS.MAINTAIN BACKSIDE CSG. PSI @ 200 PSI TO 5056 FT. BTM CURVE., CLOSE WELL IN, ADJUST ANNULAR PRESSURE F/800 PSI, T/300 PSI, T.I.H. T/5056 FT BTM CURVE,HOLD CONSTANT PSI OF 250 ON CSG. UNTIL LOST ANNULAR PSI. BUILD ANNULAR PSI BACK @ 15:15 HRS.MAINTAIN BACKSIDE CSG. PSI @ 250 PSI TO 5056 FT. BTM CURVE.CLOSE WELL IN MONITOR PRESSURES CSG STABILIZED @ 250 PSI, DP 275 PSI, CIR. & COND. WELL @ 300 PSI ON CSG 500 PSI ON SPP, VISIT WITH MGMT. INCREASE CSG PSI T/475 STOPPED FLOW, SPP 883 PSI, MONITOR GAIN/LOSS EQUALIZED

Vis (s/qt): 35, Dens (lb/gal): 9.90, pH: 10.0

09/24/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

CIR & COND MUD @ 5060 FT. MIXING BARITE T/BRING WT. UP. MUD WT. IN 10.1+, MUD WT. OUT 9.9+, VIS 35, SHUT WELL IN, CSG. PSI 600, SPP 700 PSI, MONITOR 15 MIN. NO PRESSURE INCREASE OR DECREASE, BLEED 100 PSI OFF CSG. PRESSURE, SSP 600 PSI, SHUT WELL IN & MONITOR, 15 MIN., CSG. PRESSURE BUILT BACK TO 600 PSI & SPP 680 PSI, CALL MGMT VISIT ABOUT UP COMING PROCEDURES, BUILD MUD WT. IN PIT SYSTEM TO 11.0 PPG STEADY,CIRC BTMS UP 7406 STKS HOLDING CSG @ 600 PSI, SHUT WELL IN MONITOR PSI, SIDPP 420 PSI & SICP 380 PSI, BUILD MUD WT. IN PIT SYSTEM TO 12.7 PPG, PUMP 12.7 PPG MUD DOWNHOLE PUMP 850 STKS, SHUT DOWN DUE LOSSING MUD OUT OF THE OVER FLOW, GOT READY TO START PUMPING CHECK MUD BAR FELL OUT OF

MUD WT 12.3 PPG IN PITS. RESUME MIXING MUD IN PITS BRINGING MUD WT. UP TO 12.7 PPG, MONITOR PSI SIDPP 420 PSI & SICP 380 PSI. PUMP 12.7 PPG MUD DOWNHOLE TO BALANCE WELL

Vis (s/qt): 35, Dens (lb/gal): 12.10, pH: 9.8

09/25/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

PJSM, CIRCULATE & CONDITION MUD MIXING BARITE TO BRING MUD WT. UP F/11.7# T/12.7#, MONITORING PSI SIDPP 230 PSI & SICP 440 PSI, PUMP 12.7 KILL MUD, CIRC BTMS UP 3711 STKS HOLDING DP @ 850 PSI, TO KILL WATER FLOW, MIXING BARITE ON FLY TOTAL STKS AS OF 16:00, 10400 STKS LOSS OF 18 BBLS, RESUME CIRC & MIXING BARITE ON THE FLY TO GET A 12.8 PPG ALL THE WAY AROUND. STOP CIRC CHECK FOR FLOW, WELL FLOWING, SHUT WELL IN SIDPP 50 PSI, SICP 0, MONITOR PSI, NO PSI INCREASE, OPEN WELL & CIRC DOWN FLOW LINE @ 70 SPM 246 GPM START TO LOSE MUD SLOW PUMP DOWN TO 50 SPM 175 GPM NO LOSSES, CIRC BTMS UP, MIX SLUG 2# OVER, CHECK FOR FLOW FOR 1HR WELL FLOWING 16.3 BBLS A HOUR, PUMP SLUG SHUT FLOW LINE VALVE TOO H 1 STD FLOW LINE SENSOR GASKET LEAKING, SHUT WELL IN CHANGE OUT GASKET ON FLOW LINE SENSOR, SICP = 0 PSI, SOOH F 4969' - 1900' @ 3-4 MIN A STAND WITH FLOW LINE VALVE CLOSED

Vis (s/qt): 35, Dens (lb/gal): 12.80, pH: 9.8

09/26/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

SOOH, L/D DIRECTIONAL BHA, MONITOR SICP 0 PSI, TOTAL BBLS GAINED 163 BBLS @ 26.6 BBLS PER HR. TIH WITH FLOW LINE CLOSED F 0-4270', FILL DP & CHANGE OUT FLOW SENSOR GASKET, SIH THROUGH ANNULAR F/4270' T/5092', DISPLACING DP W/3.2 BBLS EVERY 5 STDS. & 5.6 BBLS EVERY 2 STDS. CIRC BTMS UP 5800 STKS HOLDING GAIN/LOSS, SHUT WELL IN SICP 200 PSI SIH THROUGH ANNULAR F/5092' T/8974', DISPLACING DISPLACEMENT. TAG UP @ 8974', TRY TO WASH THROUGH IT NO SUCCESS CIRC BTMS UP HOLDING GAIN/LOSS @ 8974', CIRC & COND MUD CSG 190 PSI MUD WT @ 06:00 AM IN 12.3 OUT 12.5

Vis (s/qt): 35, Dens (lb/gal): 12.80, pH: 9.8

09/27/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

CIRCULATE & CONDITION MUD TO KILL WATER FLOW. MIXING BAR TO CREATE EVEN MUD WEIGHT THROUGHOUT SYSTEM. PERFORM BOP DRILL WITH BOTH CREWS. REAM FROM 8941' TO 9141' @ 40 TO 80 RPM. CIRCULATE AND CONDITION MUD TO ELIMINATE ANY LIGHT SPOTS. CHANGE OUT LINER ON PUMP #1. STRIP OUT OF THE HOLE F/9141' T/5925' MONITORING CASING PRESSURE.

Vis (s/qt): 42, Dens (lb/gal): 13.20, pH: 9.0

09/28/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

STRIP OUT OF HOLE F/5925' - 4012'. PULLED 30K OVER JUST PRIOR TO TOP OF CURVE. REAM STAND. DRAG GONE. STRIP OUT OF HOLE FROM 4012' - SURFACE. RACKED BACK EVERY STAND IN DERRICK. CHANGE OUT PIPE RAMS TO CASING RAMS. R/U CDS TOOL. PJSM WITH CASING CREW. MAKE UP SHOE TRACK AND RUN 5.5" CASING. RUN CASING TO

4095' BEFORE CLOSING ANNULUS. STRIP CASING FROM 4095' - 8723'.

Vis (s/qt): 42, Dens (lb/gal): 13.20, pH: 9.0

09/29/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

PJSM, RUN 25 JTS 5.5" CASING, WASH LAST 6 JTS. DOWN, CIRCULATING & CONDITIONING MUD, GAINED 127 BBLS @ 15.8 BBLS PER HR. CONTINUE CIRC AND COND, CONTROLLING GAIN AND LOSS WITH PUMP STROKES. SHUT IN WELL. SICP = 40 PSI. RIG DOWN CDS TOOL AND RIG UP CEMENTING HEAD. FINAL SICP = 90 PSI. RESUME CIRC AND COND, CONTROLLING LOSSES WITH PUMP RATE. @ 21:30 MW OUT = 11.8. START MIXING BARITE. @ 03:30 MW IN/OUT 12.8 AND CONSISTENT.

Vis (s/qt): 40, Dens (lb/gal): 12.80, pH: 9.0

09/30/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

PJSM, CIRC AND COND. MW 12.8 IN/OUT. CONTROLLING GAIN LOSS W/SPM. SPM REACHED PUMP LIMIT. SHUT IN WELL AND CIRC THROUGH CHOKE. SICP = 120 PSI. FSICP = 200 PSI. OPEN ANNULAR AND CONNECT CEMENT LINE. PUMP CEMENT JOB W/ 1204 SKS LEAD AND 780 SKS TAIL. FULL RETURNS DURING JOB. WOC. AFTER 4 HOURS SICP = 150 PSI. WOC. AFTER 4 HOURS SICP = 510 PSI. BLED OFF PRESSURE. SET SLIPS THROUGH BOP. NIPPLE DOWN BOP. JETTING PITS. L/D PART OF THE DRILL PIPE OUT OF DERRICK

Vis (s/qt): 40, Dens (lb/gal): 12.80, pH: 9.0

10/01/2013

Rig Name: LATSHAW #34

Depth = 9,141.0 Progress = 0.0

PJSM, NIPPLE DOWN BOP, NIPPLE UP B-SECTION & ABANDONMENT CAP TEST TO 3000 PSI, TEST OK. SIAP 650 PSI, INSTALL MOUSE HOLES L/D 4.5" DP & CLEANING PITS. SIAP = 780 PSI. RIG RELEASED @ 05:30.