

FORGE ENERGY OPERATING, LLC.
UL TILDEN 16-31-32 TB12 12H
API Number: 42-475-38482

10/28/2022

Rig Name: H&P 462
 Depth = 0.0 Progress = 0.0

12/21/2022

Rig Name: H&P 462
 Depth = 3,145.0 Progress = 3000.0

06:00 NOOP
 12:30 SKID RIG F/ TILDEN WA3 #3H TO TILDEN TB12 #12H.
 13:00 NIPPLE UP DIVERTER, DIVERTER LINES, FLOW LINE, KILL LINE & TURNBUCKLES.
 16:45 PICK UP BI, MTR, NMDC, STAB & UBHO.
 17:30 ROT DRILL F/ 145' T/ 1,344' - 1,199' - 400 FPH.
 20:30 SLD DRILL F/ 1,344' T/ 1,369' - 25' - 100 FPH - 60L
 20:45 ROT DRILL F/ 1,369' T/ 1,533' - 164' - 656 FPH.
 21:00 SLD DRILL F/ 1,533' T/ 1,558' - 25' - 50 FPH - 75L
 21:30 ROT DRILL F/ 1,558' T/ 1,722' - 164' - 328 FPH
 22:00 SLD DRILL F/ 1,722' T/ 1,752' - 30' - 120 FPH - 45L
 22:15 ROT DRILL F/ 1,752' T/ 2,466' - 714' - 260 FPH
 01:00 SLD DRILL F/ 2,466' T/ 2,491' - 25' - 50 FPH - 45R
 01:30 ROT DRILL F/ 2,491' T/ 2,654' - 163' - 217 FPH
 02:15 SLD DRILL F/ 2,654' T/ 2,684' - 30' - 60 FPH - HS
 02:45 ROT DRILL F/ 2,684' T/ 2,853' - 169' - 135 FPH
 04:00 SLD DRILL F/ 2,853' T/ 2,887' - 34' - 68 FPH - 40L
 04:30 ROT DRILL F/ 2,887' T/ 3,145' - 258' - 172 FPH

Vis (s/qt): 55, Dens (lb/gal): 8.60, pH: 9.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
199.0	199.00	0.14	49.83	-0.10	0.07	0.16	0.19
235.0	235.00	0.27	64.61	-0.13	0.39	0.22	0.30
321.0	321.00	0.19	9.83	-0.29	0.26	0.45	0.50
408.0	408.00	0.57	26.31	-0.74	0.45	0.98	0.72
506.0	505.99	1.13	10.07	-1.96	0.62	2.37	1.10
601.0	600.95	1.89	12.66	-4.17	0.80	4.82	1.61
696.0	695.89	2.21	19.04	-7.04	0.41	8.08	2.55
791.0	790.82	2.10	28.36	-9.77	0.39	11.34	3.98
887.0	886.76	2.09	28.79	-12.26	0.02	14.42	5.66
1,077.0	1,076.57	3.07	10.36	-19.25	0.67	22.46	8.24
1,172.0	1,171.41	3.64	9.00	-24.25	0.61	27.95	9.17
1,266.0	1,265.22	3.61	11.52	-29.57	0.17	33.79	10.23
1,361.0	1,360.00	4.20	15.53	-35.17	0.68	40.08	11.76
1,455.0	1,453.71	4.76	15.91	-41.39	0.60	47.14	13.75
1,549.0	1,547.43	4.06	13.02	-47.60	0.78	54.14	15.56
1,643.0	1,641.22	3.72	1.27	-53.41	0.92	60.43	16.38
1,832.0	1,829.48	6.39	341.73	-69.77	1.66	76.55	13.22
1,927.0	1,923.93	5.86	339.00	-79.88	0.64	86.10	9.82
2,021.0	2,017.50	5.14	332.70	-88.80	1.00	94.32	6.17
2,209.0	2,204.83	4.56	323.04	-104.06	0.53	107.77	-2.18
2,398.0	2,393.39	3.19	325.77	-116.09	0.73	118.12	-9.66
2,492.0	2,487.24	3.38	339.58	-121.34	0.86	122.88	-12.10
2,586.0	2,581.07	3.46	342.85	-126.94	0.22	128.19	-13.90
2,680.0	2,674.86	4.17	348.05	-133.19	0.84	134.24	-15.44
2,775.0	2,769.60	4.38	0.23	-140.11	0.98	141.25	-16.14
2,964.0	2,958.04	4.46	12.95	-153.44	0.52	155.63	-14.47
3,058.0	3,051.76	4.42	18.27	-159.61	0.44	162.63	-12.51
3,153.0	3,146.50	4.07	14.09	-165.54	0.49	169.38	-10.55

12/22/2022

Rig Name: H&P 462
 Depth = 4,320.0 Progress = 1175.0

06:00 SLD DRL F/ 3,145' TO 3,175', 30' 75L @ 30 FPH
 07:00 ROT DRL F/ 3,175' TO 3,325', 150' @ 150 FPH
 08:00 SLD DRL F/ 3,325' TO 3,355', 30' 50L @ 40 FPH
 08:45 ROT DRL F/ 3,355' TO 3,514', 159' @ 106 FPH
 10:15 SLD DRL F/ 3,514' TO 3,544', 30' 50L @ 24 FPH
 11:00 ROT DRL F/ 3,544' TO 3,703', 159' @ 127 FPH
 12:15 SLD DRL F/ 3,703' TO 3,743', 40' 90L @ 24 FPH
 13:30 ROT DRL F/ 3,743' TO 3,892', 149' @ 99 FPH
 15:00 SLD DRL F/ 3,892' TO 3,925', 33' 120L @ 44 FPH
 15:45 ROT DRL F/ 3,925' TO 3,932', 7' @ 28 FPH

16:00 SEND HIGH VIS SWEEP, CIRCULATE B/U, MONITOR SHAKERS (CLEAN), FLOW CHECK
 16:45 FLOW CHECK - TOO HIGH FOR MOTOR FAILURE - LAYDOWN MOTOR.
 20:15 CLEAN RIG FLOOR - PICK UP NEW MOTOR - MAKE UP BIT - INSTALL MWD & TEST SAME.
 22:00 TIH F/ BHA T/ 3,392'.
 00:30 ROT DRL F/ 3,932' TO 3,986', 54' @ 108 FPH
 01:00 SLD DRL F/ 3,986' TO 4,016', 30' 120L @ 40 FPH
 01:45 ROT DRL F/ 4,016' TO 4,175', 159' @ 90 FPH
 03:30 SLD DRL F/ 4,175' TO 4,205', 30' 135L @ 40 FPH
 04:15 ROT DRL F/ 4,205' TO 4,270', 65' @ 96 FPH
 05:00 SLD DRL F/ 4,270' TO 4,305', 35' 110L @ 46 FPH
 05:45 ROT DRL F/ 4,305' TO 4,320', 15' @ 60 FPH
 Vis (s/qt): 27, Dens (lb/gal): 9.70, pH: 9.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
3,247.0	3,240.25	4.26	8.73	-171.58	0.46	176.06	-9.20
3,342.0	3,334.99	4.31	3.84	-178.13	0.39	183.11	-8.43
3,436.0	3,428.68	4.99	2.21	-185.32	0.74	190.72	-8.03
3,531.0	3,523.28	5.47	4.50	-193.47	0.55	199.37	-7.52
3,625.0	3,616.78	6.35	7.69	-202.41	1.00	208.98	-6.47
3,719.0	3,710.18	6.64	7.49	-212.13	0.31	219.52	-5.07
3,814.0	3,804.50	7.05	3.88	-222.63	0.63	230.79	-3.96
3,908.0	3,897.84	6.57	1.51	-233.17	0.59	241.92	-3.43
4,003.0	3,992.35	5.07	348.58	-242.52	2.09	251.47	-4.11
4,097.0	4,086.04	4.23	346.23	-250.13	0.92	258.90	-5.76
4,192.0	4,180.84	3.24	350.93	-256.29	1.09	264.96	-7.02
4,286.0	4,274.74	2.09	314.15	-260.42	2.13	268.78	-8.67

12/23/2022

Rig Name: H&P 462
 Depth = 4,734.0 Progress = 414.0
 06:00 ROT DRL F/ 4,320' TO 4,734', 414' @ 92 FPH
 10:30 CIRCULATE, SEND 3 30 BBL HIGH VIS SWEEPS, MONITOR SHAKERS (CLEAN), FLOW CHECK
 12:30 POOH F/ 4,734' TO 300'.
 15:45 TAKE SURVEY AT 267'.
 16:00 POOH F/ 300' T/ 127'.
 16:15 LAYDOWN DIRECTIONAL MONELS, SHOCK SUB, X-OVER, UBHO, MWD, MOTOR, BIT.
 18:00 CLEAN FLOOR GET READY FOR CASING.
 18:15 SAFETY MEETING FOR RIGGING UP CASING EQUIPMENT.
 18:30 RIG UP CASING EQUIPMENT AND SAFETY MEETING ON RUNNING CASING.
 19:30 PICK UP SHOE JOINT AND FLOAT COLLAR JOINT AND THREADLOCK, RUN ADDITIONAL 44 JOINTS OF 10.75" 45.5# L-80 BTC TORQUED TO THE DIAMOND FOLLOWED BY 12 JOINTS OF 10.75" 45.5# J-55 BTC TORQUED TO THE DIAMOND MAKE UP THE DV TOOL WITH THREADLOCK.
 23:30 MAKE UP ADDITIONAL 55 JOINTS OF 10.75" 45.5# J-55 BTC TORQUED TO THE DIAMOND 4,670'. WASH AND REAM FROM 4,670' T/ 4,734'. CASING SHOE AT 4,734' AND FLOAT COLLAR AT 4,690'.
 04:45 RIG DOWN CASING TOOLS.
 05:15 CIRCULATE BOTTOMS UP.
 Vis (s/qt): 27, Dens (lb/gal): 9.80, pH: 9.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,380.0	4,368.68	2.22	279.51	-262.70	1.37	270.27	-11.69
4,475.0	4,463.62	1.89	285.61	-264.33	0.42	271.00	-15.02
4,569.0	4,557.58	1.55	288.09	-265.87	0.37	271.81	-17.72
4,664.0	4,652.54	1.40	282.27	-267.15	0.22	272.45	-20.07
4,666.0	4,654.54	1.36	279.16	-267.17	4.24	272.46	-20.12

12/24/2022

Rig Name: H&P 462
 Depth = 4,734.0 Progress = 0.0
 06:00 CIRCULATE WHILE ADDRESSING ISSUES W/ HALLIBURTON PUMP TRUCK. NUMEROUS ISSUES RELATED TO COLD TEMPERATURES: HYDRAULICS, FROZEN VALVES, FROZEN AIR LINES.
 08:45 CONDUCT PJSM, RIG UP HALLIBURTON CEMENT EQUIPMENT.
 09:00 1ST STAGE - 10 3/4" SURFACE CEMENT: 40 BBLs 8.4# GEL SPACER, 557 BBLs, 1,645 SACKS OF 12.9# LEAD, 139 BBLs, 430 SACKS OF 13.5# TAIL, DROP WIPER PLUG, 452 BBLs 10.0# BRINE DISPLACEMENT, BUMP PLUG, FCP 1,000 PSI PRESSURE UP TO 1,500 PSI. FULL RETURNS THROUGHOUT JOB 120 BBLs BACK TO SURFACE. FLOATS HELD, BLED BACK 1 BBL. DROP DV CANCELLATION CONE, WAIT 10 MINS, CANCEL DV TOOL - FINAL 2 MINUTES PRESSURE UP TO 2,000 PSI. DV CLOSED, 1 BBLs BACK.
 13:00 RIG DOWN HALLIBURTON CEMENT IRON.

13:15 LIFT DIVERTER - CUT CASING & LAYDOWN CUT JOINT - MAKE FINAL CUT ON CASING AND PREP TO INSTALL WELLHEAD - INSTALL WELLHEAD AND TEST WELD TO 1650 PSI.

18:45 PULL WELL CAP/ RIG DOWN AND MOVE MUD CROSS, DIVERTER, INSTALL SPEED HEAD AND DSA.

21:15 NIPPLE UP BOP, ATTEMPT TO MAKE UP FLOW LINE, FILL UP LINE, TURN BUCKLES, KILL LINE / CHOKE LINE, ACCUMULATOR HOSES, FLARE BOOM

00:00 SAFETY MEETING ON TESTING BOPS, SET TEST PLUG AND RIG UP TESTING COMPANY.

01:00 TEST BLIND RAMS TO 250 PSI LOW / 5000 PSI HIGH EACH TEST HELD FOR 5 MINUTES.

01:15 SET TESTING ASSEMBLY. TEST LOWER PIPE RAMS TO 250 PSI LOW / 5000 PSI HIGH EACH TEST HELD FOR 5 MINUTES. TEST UPPER PIPE RAMS HCR TO 250 PSI LOW / 5000 PSI HIGH EACH TEST HELD FOR 5 MINUTES. TEST ANNULAR TO 250 PSI LOW / 3500 PSI HIGH EACH TEST HELD FOR 5 MINUTES.

02:45 PULL AND RIG DOWN TESTING ASSEMBLY.

03:30 RIG UP MPD CHOKE IRON, HIGH PRESSURE HOSE, POWER, HYDRAULIC HOSE FOR MPD, ORBIT VALVE AND ROTATING HEAD CLAMP.

Vis (s/qt): 28, Dens (lb/gal): 9.80, pH: 9.0

12/25/2022

Rig Name: H&P 462

Depth = 4,944.0 Progress = 210.0

06:00 RIG UP HALLIBURTON MPD: HYDRAULIC LINES, ORBIT VALVE. CHANGE OUT HYDRAULIC UNIT FOR ROTATING HEAD CLAMP DUE TO FROZEN AND CRACKED LINES. ATTEMPT TO ADJUST FLOWLINE AT SLIP JOINT - FLOWLINE WILL NOT EXTEND FAR ENOUGH TO REACH RISER.

10:30 TROUBLESHOOT FLOWLINE / SLIP JOINT: REMOVE FLOWLINE TO CONDUCT REPAIRS ON GROUND. REINSTALL FLOWLINE AND SECURE, MAKE UP MUD BUCKET LINE, INSTALL TURN BUCKLES, STOW AWAY B.O.P HANDLER, MAKE UP FILL UP LINE.

15:15 TEST ORBIT VALVE 1,000 PSI (GOOD TEST).

15:30 INSTALL WEAR BUSHING.

15:45 PJSM, PICK UP 9 7/8" INTERMEDIATE ASSEMBLY (BHA#3): BIT MOTOR, X/O, NM STAB, UBHO, NMDC, NM STAB, NMDC, X/O. SCRIBE, SPT (GOOD TEST)

18:30 TRIP IN THE HOLE F/ BHA T/ 2,299' AND TAG THE DV TOOL.

19:45 TEST THE DV TOOL TO 1,500 PSI FOR 5 MINUTES GOOD TEST.

20:30 DRILL DV TOOL @ 2,299' W/ 400 GPM, 20 RPM AND 5 WOB.

20:45 TRIP IN THE HOLE F/ 2,299' T/ 4,689' AND TAG THE FLOAT COLLAR.

21:45 INSTALL NEW ROTATING HEAD.

22:15 CIRCULATE TO ENSURE PROPER PH AND MUD WEIGHT ALL THE WAY AROUND.

23:00 TEST CASING TO 1500 PSI FOR 30 MINUTES. INITIAL PRESSURE 1551 PSI AND FINAL PRESSURE OF 1474 PSI.

00:15 DRILL OUT FLOAT COLLAR AT 4,689' AND SHOE AT 4,732'.

01:45 ROT DRL F/ 4,734' T/ 4,746', 12' @ 48 FPH

02:00 ATTEMPTED FIT OBSERVED UNDULATIONS AND SHUT DOWN TEST TO CONSULT WITH ENGINEER.

02:30 CIRCULATE AND CONDITION MUD WHILE CONSULTING WITH ENGINEER ON PLAN FORWARD.

04:00 PERFORMED FIT TO 455 PSI 11.55 EMW.

04:45 ROT DRL F/ 4,746' T/ 4,944', 198' @ 158 FPH

Vis (s/qt): 28, Dens (lb/gal): 9.80, pH: 8.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,841.0	4,829.50	1.24	266.78	-268.49	0.17	272.69	-24.06
4,936.0	4,924.48	1.31	266.04	-268.95	0.08	272.55	-26.17
5,030.0	5,018.45	1.29	265.53	-269.40	0.02	272.40	-28.30
5,124.0	5,112.43	1.35	262.68	-269.79	0.09	272.17	-30.45

12/26/2022

Rig Name: H&P 462

Depth = 7,551.0 Progress = 2607.0

06:00 ROT DRL F/ 4,944' TO 6,983', 2,039' @ 194 FPH

16:30 RIG SERVICE

17:00 ROT DRL F/ 6,983' TO 6,993', 10' @ 40 FPH

17:15 SLD DRL F/ 6,993' TO 7,008', 15' @ 20 FPH

18:00 ROT DRL F/ 7,008' TO 7,086', 78' @ 78 FPH

19:00 SLD DRL F/ 7,086' TO 7,116', 30' @ 24 FPH

20:15 ROT DRL F/ 7,116' TO 7,369', 253' @ 84 FPH

23:15 SLD DRL F/ 7,369' TO 7,394', 25' @ 25 FPH

00:15 ROT DRL F/ 7,394' TO 7,551', 157' @ 57 FPH

03:00 SHUT IN WELL DUE TO H2S SENSOR ACTIVATING AT 23 PPM. MONITOR THE WELL WHILE WAITING ON STANDARD SAFETY TO VERIFY ALL CLEAR. ANNULUS PRESSURE STABILIZED AT 522 PSI.

Vis (s/qt): 28, Dens (lb/gal): 9.70, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
5,218.0	5,206.40	1.51	258.52	-270.07	0.20	271.79	-32.76

5,313.0	5,301.37	1.34	245.50	-270.01	0.38	271.08	-35.00
5,408.0	5,396.34	1.51	251.53	-269.81	0.24	270.22	-37.20
5,502.0	5,490.31	1.52	256.88	-269.83	0.15	269.54	-39.59
5,596.0	5,584.27	1.46	251.55	-269.85	0.16	268.88	-41.94
5,690.0	5,678.24	1.41	251.38	-269.76	0.05	268.13	-44.17
5,785.0	5,773.21	1.50	251.68	-269.67	0.10	267.37	-46.46
5,879.0	5,867.19	1.34	248.20	-269.52	0.19	266.57	-48.65
5,973.0	5,961.16	1.42	247.00	-269.28	0.09	265.71	-50.74
6,067.0	6,055.12	1.63	244.75	-268.93	0.23	264.69	-53.02
6,160.0	6,148.08	1.77	240.40	-268.40	0.20	263.41	-55.47
6,254.0	6,242.04	1.77	241.71	-267.76	0.04	262.01	-58.01
6,349.0	6,336.99	1.90	245.24	-267.22	0.18	260.65	-60.73
6,443.0	6,430.95	1.64	240.44	-266.68	0.32	259.34	-63.31
6,536.0	6,523.91	1.72	231.71	-265.86	0.29	257.81	-65.57
6,630.0	6,617.86	1.66	225.38	-264.68	0.21	255.98	-67.64
6,724.0	6,711.82	1.69	218.71	-263.24	0.21	253.95	-69.48
6,818.0	6,805.78	1.66	208.19	-261.47	0.33	251.66	-70.99
6,911.0	6,898.74	1.70	192.53	-259.30	0.49	249.13	-71.92
7,005.0	6,992.70	1.89	198.47	-256.81	0.28	246.30	-72.72
7,100.0	7,087.67	0.86	168.56	-254.81	1.29	244.11	-73.07
7,194.0	7,181.66	1.30	119.33	-253.35	1.05	242.90	-72.00
7,288.0	7,275.62	1.86	118.58	-251.51	0.60	241.65	-69.73
7,381.0	7,368.59	0.95	129.99	-249.80	1.02	240.43	-67.82
7,475.0	7,462.58	0.98	130.74	-248.48	0.03	239.41	-66.61

12/27/2022

Rig Name: H&P 462

Depth = 7,587.0 Progress = 36.0

- 06:00 WAIT ON STANDARD SAFETY PERSONNEL FOR POSSIBLE H2S, RECORD SICP (521 PSI), CIRCULATE B/U VIA DRILLER'S METHOD, RECORD SICP (520 PSI).
- 08:30 ALIGN TO HALLIBURTON MPD, NUMEROUS LEAKS. ISOLATE PRESSURE TO TIGHTEN HAMMER UNIONS. CONDUCT REPAIRS, PRESSURE UP TO ASSURE NO LEAKS PRESENT.
- 09:00 ROT SLD DRL F/ 7,551' TO 7,587', 36' @ 36 FPH.
- 10:00 CIRCULATE, ATTEMPT TO DUST UP TO 10.0 PPG F/ 9.6 PPG. FINAL MUD WEIGHT ACHIEVED IN/OUT 9.8 PPG. SHUT IN RECORD SICP (450 PSI)
- 14:15 STRIP OUT OF HOLE F/ 7,587' TO 1,232' FILLING W/ 15.5 KW MUD.
- 17:45 PULL ROTATING HEAD, FLOWCHECK THE WELL, WELL STATIC.
- 18:00 STRIP OUT OF HOLE F/ 1,232' T/ BHA FILLING W/ 15.5 KW MUD.
- 18:45 HOLD SAFETY MEETING ON LAYING DOWN BHA, LAY DOWN STAB, NON MAG, MWD TOOL, STAB, DRAIN MOTOR, BREAK BIT AND LAYDOWN MOTOR. BIT GRADE: 2-2-BT-S-X-I-X-PR
- 20:15 CLEAN RIG FLOOR FOR PICKING UP 8.75" BHA. PICK UP 8.75" BIT, MOTOR, STAB, MWD TOOL, STAB AND NON MAG.
- 21:00 TRIP IN THE HOLE F/ BHA T/ 1,322'.
- 22:00 INSTALL ROTATING HEAD.
- 22:15 ATTEMPT TO ESTABLISH CIRCULATION TO PUMP KWM OUT OF THE WELLBORE. NO RETURNS ESTABLISHED.
- 23:15 TRIP IN THE HOLE F/ 1,322' T/ 1,793'.
- 23:30 ATTEMPT TO ESTABLISH CIRCULATION TO PUMP KWM OUT OF THE WELLBORE. NO RETURNS ESTABLISHED.
- 00:15 TRIP IN THE HOLE F/ 1,793' T/ 2,735'.
- 00:30 ATTEMPT TO ESTABLISH CIRCULATION TO PUMP KWM OUT OF THE WELLBORE. AT 74 BBLS PUMPED RETURNS TO SURFACE, CAPTURED ~100 BBLS OF 14.0 PPG KWM AT SURFACE.
- 01:30 SHUT IN ON MPD CHOKE AND MONITOR PRESSURE BUILD. PRESSURE STABILIZED AT 135 PSI.
- 01:45 STRIP IN THE HOLE F/ 2,735' T/ 4,720' BLEEDING OFF CALCULATED DISPLACEMENT.
- 02:45 CIRCULATE OUT KWM, CAPTURE ~25 BBLS OF 13.5 PPG KWM AT SURFACE.
- 04:00 SHUT IN ON MPD CHOKE AND MONITOR PRESSURE BUILD. PRESSURE STABILIZED AT 385 PSI.
- 04:15 STRIP IN THE HOLE F/ 4,720' T/ 7,542' BLEEDING OFF CALCULATED DISPLACEMENT.

Vis (s/qt): 29, Dens (lb/gal): 9.80, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,569.0	7,556.56	1.20	152.80	-246.84	0.50	238.01	-65.55

12/28/2022

Rig Name: H&P 462

Depth = 8,500.0 Progress = 913.0

- 06:00 CIRCULATE BOTTOMS UP
- 06:45 WASH REAM F/ 7,542' TO 7,587', OBTAIN GAMMA CORRELATION.

07:00 ROT DRL F/ 7,587' TO 7,741', 154' @ 123 FPH
 08:15 SLD DRL F/ 7,741' TO 7,770', 29' HS @ 38 FPH
 09:00 ROT DRL F/ 7,770' TO 7,929', 159' @ 106 FPH
 10:30 SLD DRL F/ 7,929' TO 7,971', 42' HS @ 42 FPH
 11:30 ROT DRL F/ 7,971' TO 8,303', 332' @ 83 FPH
 15:30 SLD DRL F/ 8,303' TO 8,333', 30' HS @ 24 FPH
 16:45 ROT DRL F/ 8,333' TO 8,500, 167' @ 32 FPH
 22:00 CIRCULATE WELLBORE CLEAN IN PREPARATION TO STRIP OUT OF THE HOLE.
 23:15 MONITOR WELL FOR SHUT IN PRESSURE. MPD CHOKE PRESSURE 375 PSI.
 23:30 STRIP OUT OF THE HOLE F/ 8,500' T/ BHA. PUMPING CALCULATED
 DISPLACEMENT OF 15.5 PPG KWM.
 03:30 FLOW CHECK WELL BEFORE AND AFTER PULLING ROTATING HEAD. STATIC.
 03:45 TRIP OUT F/ 1,322' T/ BHA PUMPING CALCULATED DISPLACEMENT.
 04:15 LAY DOWN NON MAG, STAB, MWD TOOL, DRAIN MOTOR AND BREAK BIT. LAY
 DOWN MOTOR AND BIT. GRADE: 4-3-CR-N-X-I-BT-PR
 05:00 HOLD SAFETY MEETING ON CHANGING OUT BHA, PICK UP MOTOR, ORIENT
 MULE SHOE.

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

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,664.0	7,651.54	1.41	163.84	-244.69	0.34	236.00	-64.77
7,758.0	7,745.51	1.56	166.96	-242.26	0.18	233.64	-64.16
7,852.0	7,839.48	1.33	175.15	-239.91	0.33	231.31	-63.78
7,946.0	7,933.46	0.63	187.47	-238.37	0.77	229.71	-63.76
8,039.0	8,026.46	0.39	269.40	-237.99	0.74	229.20	-64.14
8,133.0	8,120.46	0.55	264.09	-238.16	0.18	229.15	-64.91
8,226.0	8,213.45	0.53	223.39	-238.02	0.40	228.79	-65.65
8,320.0	8,307.45	0.37	252.81	-237.79	0.29	228.38	-66.24
8,414.0	8,401.45	0.28	347.99	-238.02	0.51	228.52	-66.57

12/29/2022

Rig Name: H&P 462

Depth = 9,435.0 Progress = 935.0

06:00 PICK UP 8 3/4" INTERMEDIATE ASSEMBLY (BHA#5), SCRIBE
 06:45 TIH F/ BHA TO 2,500', INSTALL ROT HEAD
 08:30 FILL BACK SIDE WITH 1,380 STROKES, TOTAL ANNULAR CAPACITY @ 2,500'
 2,092 STROKES. CIRCULATE, ESTABLISH RETURNS. CIRCULATE BOTTOMS UP,
 CATCH KW MUD (80 BBLS, 13-14 PPG).
 09:45 STRIP IN HOLE F/ 2,500' TO 4,719', CALCULATED DISPLACEMENT TO TRIP
 TANKS.
 11:15 SLIP & CUT DRILLING LINE (10 WRAPS)
 12:45 GREASE BLOCKS, ADD HYD.OIL, GREASE BONNET SEAL, SWIVEL PACKING,
 AND CHANGE OUT PLUG ON COMMUNICATIONS CABLE GOING TO TOP DRIVE
 13:30 CIRCULATE BOTTOMS UP STAGING OUT KWM (120 BBLS 10.5-14.3 PPG)
 14:30 STRIP IN HOLE F/ 4,719' TO 8,387', CALCULATED DISPLACEMENT TO TRIP
 TANKS.
 16:45 WASH AND REAM F/8,387' T/8,500'
 17:15 ROT DRL F/ 8,500' TO 8,679, 179' @ 80 FPH
 19:30 SLD DRL F/ 8,679' TO 8,719', 40' 20R TF @ 40 FPH
 20:30 ROT DRL F/ 8,719' TO 9,138, 419' @ 84 FPH
 01:30 ROT DRL F/ 9,138' TO 9,239, 101' @ 81 FPH
 02:45 SLD DRL F/ 9,239' TO 9,264', 25' 300 TF @ 20FPH
 04:00 ROT DRL F/ 9,264' TO 9,435', 171' @ 86 FPH

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

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
8,507.0	8,494.45	0.44	116.03	-238.00	0.70	228.58	-66.30
8,602.0	8,589.45	0.22	173.73	-237.58	0.39	228.24	-65.95
8,695.0	8,682.44	0.12	198.60	-237.32	0.13	227.97	-65.96
8,788.0	8,775.44	0.70	79.28	-237.19	0.82	227.99	-65.44
8,882.0	8,869.42	1.69	71.62	-237.18	1.06	228.53	-63.56
8,976.0	8,963.37	2.25	50.84	-237.95	0.96	230.13	-60.81
9,069.0	9,056.29	2.49	42.47	-239.71	0.45	232.78	-58.03
9,162.0	9,149.20	2.57	37.48	-241.99	0.25	235.92	-55.40
9,255.0	9,242.12	2.19	24.21	-244.57	0.72	239.20	-53.40
9,349.0	9,336.05	2.27	25.62	-247.32	0.10	242.51	-51.86
9,443.0	9,429.95	2.83	36.27	-250.12	0.78	246.06	-49.68

12/30/2022

Rig Name: H&P 462

Depth = 9,880.0 Progress = 445.0

06:00 ROT DRL F/ 9,435' TO 9,520', 85' @ 85 FPH
 07:00 SLD DRL F/ 9,520' TO 9,555', 35' 240M TF @ 28FPH
 08:15 ROT DRL F/ 9,555' TO 9,880', 325' @ 86.7 FPH
 12:00 CIRCULATE WELLBORE CLEAN PUMP SWEEP AROUND
 13:15 STRIP OUT OF THE HOLE F/ 9,880' T/ BHA. PUMPING CALCULATED

DISPLACEMENT ACTIVE SYSTEM 10 PPG F/9,880' T/8,332', THEN START PUMPING CALCULATED DISPLACEMENT OF 15.5 PPG KWM T/1,227'. FLOW CHECK WELL STATIC. MPD CHOKE PRESSURE 355 PSI.

18:00 PERFORM FLOW CHECK, STATIC. PULL THE ROTATING HEAD AND PERFORM FLOW CHECK, STATIC.

18:15 TRIP OUT OF THE HOLE F/ 1,227' T/ BHA.

19:15 SAFETY MEETING ON CHANGING OUT BHA, LAYDOWN NON MAG, STAB, MWD TOOL, DRAIN THE MOTOR, BREAK THE BIT, LAYDOWN THE MOTOR AND STAB. BIT GRADE: 1-2-CT-G-X-I-X-TD

20:30 CLEAN AND CLEAR THE RIG FLOOR IN PREPARATION FOR BHA #6.

20:45 PICK UP BHA #6. PICK UP PONY COLLAR, FLOAT SUB, MOTOR, BIT, MWD TOOL, NON MAG AND CROSSOVER.

21:45 TRIP IN THE HOLE F/ BHA TO 2,500'. INSTALL ROTATING HEAD.

22:45 CIRCULATE BOTTOMS UP ATTEMPTING TO ESTABLISH CIRCULATION. NO SUCCESS.

23:45 TRIP IN THE HOLE F/ 2,500' TO 3,500'.

00:00 CIRCULATE BOTTOMS UP ATTEMPTING TO ESTABLISH CIRCULATION. NO SUCCESS.

01:30 TRIP IN THE HOLE F/ 3,500' TO 4,732'.

02:00 CIRCULATE BOTTOMS UP ATTEMPTING TO ESTABLISH CIRCULATION. NO SUCCESS. CONSULT WITH SUPERINTENDENT AND PUMP FRESH WATER DOWN THE BACKSIDE.

04:30 TRIP OUT OF THE HOLE F/ 4,734' T/ 2,500'.

05:45 PUMP FRESH WATER INTO THE TO LIGHTEN THE HYDROSTATIC COLUMN AND RE-ESTABLISH CIRCULATION. CIRCULATE SURFACE TO SURFACE WITH GOOD RETURNS.

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

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
9,632.0	9,618.77	2.38	4.74	-256.62	0.78	253.74	-46.60
9,726.0	9,712.68	2.49	359.69	-260.40	0.26	257.72	-46.45
9,813.0	9,799.60	2.50	355.84	-264.08	0.19	261.50	-46.59

12/31/2022

Rig Name: H&P 462

Depth = 10,048.0 Progress = 168.0

06:00 ESTABLISH CIRCULATION AND CIRCULATE 13.4 PPG 74 BBLS KWM OUT, (CAPTURE AND PUT INTO PREMIX)

07:00 MONITOR MPD PRESSURE 215 PSI ON SICP,

07:15 STRIP IN HOLE F/2,500' T/4,732', (OPEN MPD FOR PROPER DISPLACEMENT

08:15 CIRCULATE 12.1-12.2 PPG 55 BBLS KWM OUT, (CAPTURE AND PUT INTO PREMIX)

09:30 STRIP IN HOLE F/4,732' T/7,000', (OPEN MPD FOR PROPER DISPLACEMENT)

11:00 CIRCULATE B/U NO KWM TO SURFACE.

12:00 STRIP IN HOLE F/7,000' T/8,777', (OPEN MPD FOR PROPER DISPLACEMENT)

13:00 P/U 4.5" DP F/8,777' T/9,813' (STRIP IN HOLE)

14:45 WASH AND REAM F/9,813' T/9,880'

15:00 SLD DRL F/ 9,880' TO 9,954', 74' 170M TF @ 29.6FPH

17:30 ROT DRL F/ 9,954' TO 9,964', 10' @ 40 FPH

17:45 SLD DRL F/ 9,964' TO 10,001', 37' 170M TF @ 74 FPH

18:15 ROT DRL F/ 10,001' TO 10,022', 21' @ 84 FPH

18:30 SLD DRL F/ 10,022' TO 10,048', 26' HS TF @ 35 FPH

19:15 TROUBLESHOOT MWD TOOL. TOOLFACE IS NOT CONSISTENT EVEN WHEN THE PIPE IS SITTING STATIC. CONSULT SUPERINTENDENT, PROJECT MANAGER, AND AIM MANAGEMENT.

20:15 CIRCULATE AROUND 2 SWEEPS TO CLEAN THE WELLBORE IN PREPARATION FOR STRIPPING OPERATIONS. MONITOR WELL MPD SHUT IN CASING PRESSURE 434 PSI.

22:45 TRIP OUT OF THE HOLE F/ 10,048' T/ 9,152'. ADDING PROPER DISPLACEMENT OF SYSTEM MUD TO THE BACKSIDE.

23:15 STRIP OUT OF THE HOLE F/ 9,152' T/ SURFACE. ADDING PROPER DISPLACEMENT OF KWM.

03:30 SAFETY MEETING ON CHANING OUT BHA. LAYDOWN NON MAG, PULL MWD TOOL, DRAIN THE MOTOR, BREAK THE BIT AND LAYOUT THE BIT AND MOTOR. BIT GRADE: 2-5-LT-S-X-I-N-DTF

04:30 CLEAN AND CLEAR RIG FLOOR FOR BHA #7

04:45 PICK UP BHA #7. PICK UP MOTOR, MAKE UP BIT, PICK UP MWD TOOL, NON MAG AND TEST MWD TOOL.

05:30 TRIP IN THE HOLE F/ BHA T/ 1,400'.

Vis (s/qt): 28, Dens (lb/gal): 9.80, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
9,833.0	9,819.58	2.54	358.42	-264.93	0.60	262.38	-46.64
9,880.0	9,866.54	1.92	13.00	-266.63	1.78	264.19	-46.49
9,927.0	9,913.48	5.74	156.66	-264.98	15.69	262.80	-45.38
9,974.0	9,959.81	13.18	164.81	-257.28	16.05	255.46	-43.04

01/01/2023

Rig Name: H&P 462

Depth = 10,476.0 Progress = 428.0

06:00 TRIP IN HOLE F/BHA T/2500'

07:00 CIRCULATE 10.5-15 PPG 83 BBLS KWM OUT, (CAPTURE AND PUT INTO PREMIX)

07:30 STRIP IN HOLE F/2,500' T/4,600', SICP STARTED DROPPING F/129 PSI T/29 PSI

08:30 CHANGE OUT ROTATING HEAD

09:00 CIRCULATE 10.2-15.2 PPG 99 BBLS KWM OUT, (CAPTURE AND PUT INTO PREMIX)

10:00 STRIP IN HOLE F/4,600' T/10,002', (OPEN MPD FOR PROPER DISPLACEMENT)

13:00 WASH F/10,002' T/10,048'

13:15 ROT DRL F/ 10,048' TO 10,067', 19' @ 76 FPH

13:30 C/O HYD. HOSE ON TDS,

14:15 SERVICE RIG, ADD HYD.OIL, GREASE BONNET SEAL, GREASE SWIVEL PACKING

14:45 ROT DRL F/ 10,067' TO 10,069', 2' @ 8 FPH

15:00 SLD DRL F/ 10,069' TO 10,095', 26' 10R TF @ 34.7 FPH

15:45 ROT DRL F/ 10,095' TO 10,117', 22' @ 88 FPH

16:00 SLD DRL F/ 10,117' TO 10,143', 26' 20R TF @ 52 FPH

16:30 ROT DRL F/ 10,143' TO 10,164', 21' @ 42 FPH

17:00 SLD DRL F/ 10,164' TO 10,191', 27' 10R TF @ 50 FPH

17:30 ROT DRL F/ 10,191' TO 10,210', 19' @ 38 FPH

18:00 SLD DRL F/ 10,210' TO 10,238', 28' 15L TF @ 56 FPH

18:30 ROT DRL F/ 10,238' TO 10,258', 20' @ 40 FPH

19:00 SLD DRL F/ 10,258' TO 10,285', 27' 25L TF @ 35 FPH

19:45 ROT DRL F/ 10,285' TO 10,305', 20' @ 80 FPH

20:00 SLD DRL F/ 10,305' TO 10,332', 27' 35L TF @ 36 FPH

20:45 ROT DRL F/ 10,332' TO 10,357', 25' @ 100 FPH

21:00 SLD DRL F/ 10,357' TO 10,380', 23' 25L TF @ 46 FPH

21:30 ROT DRL F/ 10,380' TO 10,386', 6' @ 24 FPH

21:45 SLD DRL F/ 10,386' TO 10,427', 41' 30L TF @ 55 FPH

22:30 CONSULT WITH PROJECT MANAGER, GEOLOGIST AND DIRECTIONAL COORDINATOR ABOUT DRILLING AHEAD DUE TO MOTOR YIELD DROPPING OFF FROM 11° TO 6°.

23:30 SLD DRL F/ 10,427' TO 10,472', 45' 20L TF @ 60 FPH

00:15 CONSULT WITH PROJECT MANAGER AFTER MOTOR YIELD OF 7° AFTER LAST SLIDE. DECISION MADE TO ADJUST TD TO SET CASING.

01:00 SLD DRL F/ 10,472' TO 10,476', 4' HS TF @ 16 FPH. HOLE SECTION TD OF 10476'MD / 10372' TVD.

01:15 CIRCULATE AROUND A SWEEP TO CLEAN THE WELLBORE. SHUT IN MPD CASING PRESSURE 464 PSI.

02:30 STRIP OUT OF THE HOLE F/ 10,476' T/ 9,813'. ADDING PROPER DISPLACEMENT WITH SYSTEM MUD.

03:00 REAM IN THE HOLE F/ 9,813' T/ 10,476'.

03:30 CIRCULATE 2 SWEEPS AROUND THE CLEAN THE WELLBORE. RACK BACK 1 STAND AFTER THE FIRST SWEEP WAS BACK TO SURFACE.

Vis (s/qt): 28, Dens (lb/gal): 9.70, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
10,021.0	10,005.06	18.01	163.45	-244.65	10.31	243.32	-39.57
10,068.0	10,049.22	21.98	163.96	-228.58	8.45	227.89	-35.06
10,116.0	10,093.13	25.63	165.32	-209.21	7.69	209.21	-29.95
10,163.0	10,134.92	28.86	169.84	-187.76	8.16	188.20	-25.37
10,210.0	10,175.28	32.73	171.88	-163.90	8.53	164.45	-21.57
10,257.0	10,213.75	37.38	171.93	-137.19	9.89	137.73	-17.77
10,305.0	10,251.14	40.26	170.57	-107.36	6.26	108.00	-13.19
10,352.0	10,286.56	41.95	170.03	-76.67	3.67	77.54	-7.98
10,399.0	10,320.82	44.44	169.47	-44.68	5.36	45.89	-2.25

01/02/2023

Rig Name: H&P 462

Depth = 10,476.0 Progress = 0.0

06:00 MONITOR MPD PRESSURE 450 PSI ON MPD,

06:15 STRIP OUT OF HOLE F/10,476' T/3,790', ADDING PROPER DISPLACEMENT OF 15.5PPG KWM.

10:15 CHANGE OUT ROTATING HEAD

10:45 STRIP OUT OF HOLE F/3,790' T/1,720', ADDING PROPER DISPLACEMENT OF 15.5PPG KWM

11:45 PULL ROTATING HEAD, CHECK FLOW (WELL STATIC)

12:00 STRIP OUT OF HOLE F/1,720' T/118', ADDING PROPER DISPLACEMENT OF 10 PPG ACTIVE MUD

12:45 PJSM, L/D TOP MONEL, L/D MWD TOOL, BREAK BIT GRADE BIT 1 INNER 3 OUTER IN GAUGE, RACK BACK BHA IN DERRICK

13:30 PULL WEAR BUSHING

13:45 PJSM, RIG UP CASING EQUIPMENT, CRT, BAILS, ELEVATORS, CASING TONGS, HYD. HOSES, TEST E-STOP
15:00 PJSM, P/U JT. PERFORM DUMP TEST, L/D TEST JT.
15:30 MAKE UP SHOE TRACK (THREADLOCK) AND PUMP THROUGH FLOATS, RUN TOTAL 15JTS. 7.625" L80IC R-3 TL-SW SMLS MADE UP TO OPTIMUM TORQUE 20,200 FT/LBS, 1 X-O, RUN 15 JTS. L80HC BTC-SCC R-3 ERW MADE UP TO THE DIAMOND.
18:00 RUN 102 JTS. L80HC BTC-SCC R-3 ERW MADE UP TO THE DIAMOND, MAKE UP THE CONTINGENCY COLLAR, 2 JTS L80HC BTC-SCC R-3 ERW MADE UP TO THE DIAMOND, DV/PACKER, AND 106 JTS L80HC BTC-SCC R-3 ERW MADE UP TO THE DIAMOND. FLOAT SHOE LOCATED AT 10461'MD / FLOAT COLLAR AT 10376' MD. LAND OUT WITH 192K, DOES NOT INCLUDE BLOCKS.
02:15 RIG DOWN CRT, POWER TONGS, CASING SLIPS AND EXTRA ELEVATORS.
02:30 MAKE UP CEMENT HEAD.
02:45 ATTEMPT TO ESTABLISH CIRCULATION PUMPING DOWN THE CASING AND TAKING RETURNS UP THE ANNULUS. PUMPED A TOTAL OF 159 BBLS. NO SUCCESS. FILL BACKSIDE WITH 9.7 BRINE 66 BBLS, SHUT THE ANNULAR AND BULLHEAD AN ADDITIONAL 203 BBLS DOWN THE BACKSIDE TO THE BRUSHY CANYON FORMATION W/ 630 PSI. BEGIN CIRCULATING THE LONG WAY AND RE-ESTABLISH CIRCULATION.
05:15 CIRCULATE BOTTOMS UP THROUGH THE CHOKE.
Vis (s/qt): 28, Dens (lb/gal): 9.80, pH: 10.0

01/03/2023

Rig Name: H&P 462

Depth = 10,476.0 Progress = 0.0

06:00 CIRCULATE 1.5 CASING CAPACITY AND ESTABLISH CEMENT PUMP RATE STAGED PUMPS UP TO 8 BBLS A MIN. BACKED OFF TO 7 BBLS A MIN
07:15 TEST LINES TO 6,000 PSI, GOOD TEST. PUMP CEMENT JOB AS FOLLOWS; PUMPED 50 BBLS OF 8.4 PPG SPACER W/ WG-36, FOLLOWED BY 315 BBLS 10.5 PPG LEAD CEMENT (565 SX, 3.127 CU/FT SK YIELD, 19.6 GAL/SK), TAIL 54 BBLS 13.5 PPG (225 SX, 1.354 CU/FT SK YIELD, 6.62 GAL/SK) CEMENT AT 6 BBL/MIN. DROPPED PLUG AND DISPLACED WITH 480.3 BBLS OF 8.4 PPG BRINE. HAD FULL RETURNS BUMPED PLUG WITH 1275 PSI AND PRESSURED UP 1,400 PSI, FLOATS HELD, 1 BBLS RETURNED F/LINES, 50 BBLS OF SPACER AND 46 BBLS CEMENT TO SURFACE, CEMENT IN PLACE @ 10:30:00 HRS. INFLATE PACKER. DECISION MADE TO CANCEL SECOND STAGE, DROP CANCELATION CONE, PRESSURE UP TO 2,000 PSI TO SET. RIG DOWN HALLIBURTON
11:45 L/D LANDING JT, CHANGE OUT BAILS AND ELEVATORS
12:00 INSTALL PACK OFF AND PULL TEST 25K OVER AND PRESSURE TEST
12:30 HELP ENCORE LOOSEN SPEED HEAD, PICK UP STACK, INSTALL NITE CAP
14:00 NOOPS

03/27/2023

Rig Name: H&P 462

Depth = 10,476.0 Progress = 0.0

06:00 PREP RIG FOR SKIDING, SKID RIG FROM UL TILDEN 13H TO UL TILDEN 12H,
07:15 N/U BOP, R/U CHOKE LINE, STD PIPE, INSTALL TURN BUCKLES AND CENTER STACK, ACCEPT H&P 462 AT 7:15 ON 03/26/2023 ON DAY RATE
08:00 INSTALL 4.5" TEST JOINT AND TEST TDS BACK TO PUMPS 250/LOW 7500/HIGH TEST BOP STACK UPPER AND LOWER PIPE RAMS, BLIND RAMS AND 2"- 4" VALVES, HCR 250/LOW 10K /HIGH,
11:00 TROUBLE SHOOT 3RD PARTY TESTING EQUIPMENT FOUND HIGH PRESSURE HOSE PLUGGED UP
11:30 TEST ANNULAR 250/LOW 3500/HIGH REMOVE 4.5" TEST JOINT AND INSTALL 5.5" TEST JOINT FINISH PERFORMING BOP TEST UPPER AND LOWER PIPE RAMS 250/LOW AND 10K/HIGH, ANNULAR 250/LOW 3500/HIGH, ALL TESTS FOR 5 MINS EACH.
16:45 TROUBLE SHOOT TEST SUB LEAKING AROUND BOX HAD THE RIG HAND TO BREAK SUB OFF FOUND SUB FACE WAS WASHED TESTER CALLED YARD TO BRING ANOTHER TEST SUB OUT TO RIG
17:15 INSTALL WEAR BUSHING
17:45 RIG DOWN BOP HANDLER, CONNECT FLOWLINE TO MANIFOLD, INSTALL MOUSE HOLE
18:00 M/U TESTING SUB TO TIW & DART VALVE. TEST TO 250/10K. R/D TESTER.
18:45 SAFETY MEETING WITH ALL PERSONAL ON PICKING UP DIR. TOOLS.
19:00 M/U DIR TOOLS, P/U MOTOR, STAB, UBHO, NMDC. SCRIBE, INSTALL MWD & M/U BIT. M/U LAST STAB AND NMDC. PERFORM SHALLOW TEST.
21:30 T.I.H F/ 211' T/ 2,381'.
22:30 PICKED UP AGITATOR TO PERFORM BEFORE AND AFTER PRESSURE TEST. TEST BEFORE AND AFTER AGITATOR WAS SAME AT 1100 PSI. HOT SHOT NEW AGITATOR TO LOCATION.
23:30 SLIP AND CUT 7 WRAPS.
00:45 RIG SERVICE.
01:15 WAIT ON AGITATOR.
01:45 STRAP AGITATOR. M/U AGITATOR & TEST, 1100 PSI BEFORE & 1200 PSI

AFTER.
 02:00 T.I.H F/ 2,381' T/ 4,633'.
 03:00 FILL PIPE, CIRC AIR OUT. TEST ABOVE DV TOOL TO 2000 PSI FOR 5 MIN,
 GOOD TEST.
 03:30 DRILL OUT DV & CC F/ 4,633' T/ 4,748'.
 04:15 T.I.H F/ 4,748' T/9,562'.
 Vis (s/qt): 58, Dens (lb/gal): 11.60, pH: 0.0

03/28/2023

Rig Name: H&P 462
 Depth = 11,699.0 Progress = 1223.0
 06:00 TIH F/9,712' T/10,317'
 07:45 CIRCULATE AND PERFORM CASING TEST T/2500 PSI GOOD TEST
 08:30 DRILL OUT SHOE TRACK AND CEMENT WHILE DISPLACE BRINE WATER WITH
 OBM
 10:30 ROT DRILL F/10,476' T/10,497' 21' @ 42 FPH
 11:00 SLD DRILL F/10,497' T/10,675' 178' 30 FPH TF: 15L
 17:00 ROT DRILL F/10,675' T/10,687' 12' @ 48 FPH
 17:15 SLD DRILL F/10,687' T/10,734' 47' 38 FPH TF: 15R
 18:30 ROT DRILL F/ 10,734' T/ 10,781' 47' @ 94 FPH. LAND CURVE AT 10,781' (1'
 HIGH & 2' RIGHT).
 19:00 ROT DRILL F/ 10,781' T/ 11,359 578' @ 83 FPH.
 02:00 SLD DRILL F/ 11,359' T/ 11,384' 25' 25 FPH TF: 60R.
 03:00 ROT DRILL F/ 11,384' T/ 11,699' 315' @ 105 FPH.
 Vis (s/qt): 55, Dens (lb/gal): 11.60, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
10,484.0	10,377.85	51.22	166.48	18.10	8.39	-15.66	10.95
10,531.0	10,405.88	55.55	165.23	55.79	9.46	-52.23	20.18
10,578.0	10,429.83	63.14	162.84	96.19	16.73	-91.06	31.32
10,625.0	10,448.06	71.19	161.18	139.45	17.43	-132.22	44.71
10,672.0	10,460.12	79.05	160.74	184.78	16.75	-175.12	59.52
10,719.0	10,466.14	86.21	161.81	231.32	15.40	-219.24	74.47
10,813.0	10,470.24	88.79	162.44	325.19	2.83	-308.61	103.29
10,908.0	10,471.81	89.32	162.27	420.15	0.59	-399.12	132.08
11,003.0	10,472.63	89.69	162.51	515.12	0.46	-489.67	160.82
11,097.0	10,473.03	89.82	163.27	609.11	0.82	-579.51	188.47
11,193.0	10,473.82	89.24	163.44	705.10	0.63	-671.48	215.97
11,287.0	10,476.61	87.35	162.01	799.04	2.52	-761.20	243.87
11,383.0	10,479.60	89.09	165.78	894.97	4.32	-853.36	270.48
11,478.0	10,481.27	88.89	166.68	989.87	0.97	-945.62	293.09
11,573.0	10,483.64	88.25	166.75	1,084.71	0.68	-1,038.05	314.91
11,668.0	10,486.34	88.49	166.99	1,179.52	0.36	-1,130.52	336.49

03/29/2023

Rig Name: H&P 462
 Depth = 11,905.0 Progress = 532.0
 06:00 ROT DRILL F/ 11,699' T/ 11,795' 96' @ 76.8 FPH.
 07:15 SLD DRILL F/ 11,795' T/ 11,820' 25' 33.3 FPH TF: 60L.
 08:00 ROT DRILL F/ 11,820' T/ 11,905' 85' @ 26.2 FPH.
 11:15 CHECK FLOW WELL STATIC AND PUMP SLUG
 11:45 TOO H PER SWAB MODEL F/11,905' T/202', FLOW CHECKED @ 2469' PULLED
 ROTATING HEAD, L/D AGITATOR
 17:30 L/D NON-MAG, STAB, PULL MWD, DRAIN MOTOR, BREAK BIT, C/O MOTOR,
 MAKE UP BIT, SCRIBE MOTOR, INSTALL MWD AND TEST.
 19:30 T.I.H F/ 211' T/ 10,593' PER SURGE MODEL. BEFORE AND AFTER SPP
 W/AGITATOR, 1450 / 1800. INSTALL ROT HEAD.
 00:30 CHECK SHOT AT 10,593'.
 00:45 T.I.H F/ 10,593' T/ 11,730' PER SURGE MODEL.
 01:15 CHECK SHOT @ 11,730' & 11,825'.
 01:45 RE-LOG F/ 11,875' T/ 11,905'
 02:00 ROT DRILL F/ 11,905' T/ 11,929', 24' @ 96 FPH.
 02:15 SLD DRILL F/ 11,929' T/ 11,944', 15' 20 FPH TF: 130L
 03:00 ROT DRILL F/ 11,944' T/ 12,211', 267' @ 118 FPH.
 05:15 SLD DRILL F/ 12,211' T/ 12,231', 20' 27 FPH TF:HS
 Vis (s/qt): 56, Dens (lb/gal): 11.60, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
11,763.0	10,489.16	88.11	167.48	1,274.30	0.65	-1,223.14	357.47
11,857.0	10,489.25	91.79	164.86	1,368.19	4.81	-1,314.39	379.93
11,950.0	10,488.24	89.45	164.18	1,461.17	2.62	-1,404.00	404.75
12,045.0	10,489.98	88.45	163.34	1,556.15	1.37	-1,495.19	431.31
12,139.0	10,493.37	87.41	162.55	1,650.08	1.39	-1,585.00	458.86
12,234.0	10,496.18	89.20	162.53	1,745.01	1.88	-1,675.58	487.35

03/30/2023

Rig Name: H&P 462

Depth = 14,066.0 Progress = 1835.0

06:00 ROT DRILL F/ 12,231' T/ 12,306', 75' @ 100 FPH.
 06:45 SLD DRILL F/ 12,306' T/ 12,323', 17' 17 FPH TF:HS
 07:45 ROT DRILL F/ 12,323' T/ 12,745', 422' @ 99.3 FPH.
 12:00 ROT DRILL F/ 12,745' T/ 12,955', 210' @ 84 FPH.
 14:30 DOWN LINK MWD TOOL
 14:45 ROT DRILL F/ 12,955' T/ 12,966', 11' @ 44 FPH
 15:00 SLD DRILL F/ 12,966' T/ 12,986', 20' 20 FPH TF:HS
 16:00 ROT DRILL F/ 12,986' T/ 13,049', 63' @ 126 FPH
 16:30 RIG SERVICE
 17:00 ROT DRILL F/ 13,049' T/ 13,814', 765' @ 96 FPH
 01:00 SLD DRILL F/ 13,814' T/ 13,830', 16' 21 FPH TF:90R
 01:45 ROT DRILL F/ 13,830' T/ 14,003', 173' @ 69 FPH.
 04:15 SLD F/ 14,003' T/ 14,030', 27' 21.6 FPH TF:45R
 05:30 ROT DRILL F/ 14,030' T/ 14,066', 36' @ 72 FPH.

Vis (s/qt): 58, Dens (lb/gal): 11.70, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
12,328.0	10,496.78	90.07	163.49	1,839.00	1.38	-1,765.47	514.82
12,422.0	10,496.09	90.78	164.06	1,933.00	0.97	-1,855.73	541.08
12,517.0	10,494.39	91.27	163.60	2,027.98	0.71	-1,946.95	567.53
12,611.0	10,492.21	91.38	163.20	2,121.96	0.44	-2,037.01	594.38
12,705.0	10,489.55	91.87	164.01	2,215.92	1.01	-2,127.15	620.90
12,800.0	10,488.83	88.99	162.91	2,310.90	3.25	-2,218.21	647.94
12,894.0	10,491.06	88.30	162.89	2,404.87	0.73	-2,308.02	675.58
12,988.0	10,490.25	92.68	164.61	2,498.84	5.01	-2,398.24	701.87
13,082.0	10,486.22	92.24	165.25	2,592.73	0.83	-2,488.92	726.29
13,176.0	10,482.23	92.62	164.99	2,686.61	0.49	-2,579.69	750.41
13,271.0	10,478.21	92.24	164.50	2,781.51	0.65	-2,671.26	775.38
13,366.0	10,475.65	90.84	163.43	2,876.47	1.85	-2,762.53	801.61
13,460.0	10,473.95	91.23	163.46	2,970.46	0.42	-2,852.61	828.39
13,554.0	10,473.31	89.55	162.36	3,064.44	2.14	-2,942.46	856.01
13,648.0	10,473.65	90.04	161.69	3,158.40	0.88	-3,031.87	885.02
13,742.0	10,474.22	89.27	160.99	3,252.32	1.11	-3,120.92	915.09
13,837.0	10,476.84	87.56	161.37	3,347.18	1.84	-3,210.81	945.73
13,931.0	10,481.18	87.15	161.07	3,440.99	0.54	-3,299.71	975.96
14,026.0	10,482.87	90.81	163.06	3,535.92	4.38	-3,390.06	1,005.20

03/31/2023

Rig Name: H&P 462

Depth = 15,385.0 Progress = 1319.0

06:00 ROT DRILL F/ 14,066' T/ 14,381', 315' @ 57.3 FPH.
 11:30 SLD F/ 14,381' T/ 14,410', 29' 19.3 FPH TF:90R
 13:00 ROT DRILL F/ 14,410' T/ 14,653', 243' @ 60.8 FPH.
 17:00 RIG SERVICE
 17:30 ROT DRILL F/ 14,653' T/ 14,947', 294' @ 69.2 FPH.
 21:45 SLD F/ 14,947' T/ 14,963', 16' @ 32 FPH TF:90R
 22:15 ROT DRILL F/ 14,963' T/ 15,324', 361' @ 62.8 FPH.
 04:00 SLD F/ 15,324' T/ 15,349', 25' @ 20 FPH TF:180
 05:15 ROT DRILL F/ 15,349' T/ 15,385', 36' @ 48 FPH.

Vis (s/qt): 55, Dens (lb/gal): 11.70, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
14,120.0	10,481.45	90.93	162.85	3,629.90	0.26	-3,479.92	1,032.75
14,214.0	10,479.58	91.34	162.13	3,723.86	0.88	-3,569.54	1,061.03
14,309.0	10,477.71	90.92	161.52	3,818.79	0.78	-3,659.79	1,090.65
14,403.0	10,476.21	90.91	163.51	3,912.75	2.12	-3,749.43	1,118.89
14,498.0	10,475.41	90.05	163.36	4,007.75	0.92	-3,840.48	1,145.97
14,592.0	10,475.72	89.58	163.32	4,101.74	0.50	-3,930.53	1,172.92
14,686.0	10,475.81	90.31	163.21	4,195.74	0.79	-4,020.55	1,199.99
14,781.0	10,475.43	90.15	162.94	4,290.73	0.33	-4,111.44	1,227.65
14,875.0	10,474.47	91.01	162.50	4,384.71	1.03	-4,201.19	1,255.57
14,969.0	10,471.83	92.22	164.93	4,478.67	2.89	-4,291.37	1,281.91
15,063.0	10,468.15	92.26	165.38	4,572.56	0.48	-4,382.16	1,305.98
15,158.0	10,465.01	91.53	164.94	4,667.48	0.90	-4,473.94	1,330.30
15,252.0	10,460.70	93.73	165.44	4,761.35	2.40	-4,564.72	1,354.30
15,346.0	10,460.46	86.56	163.21	4,855.27	7.99	-4,655.16	1,379.68

04/01/2023

Rig Name: H&P 462

Depth = 16,520.0 Progress = 1135.0

06:00 ROT DRILL F/ 15,385' T/ 15,418', 33' @ 132 FPH.

06:15 SLD F/ 15,418' T/ 15,448', 30' @ 24 FPH TF:30R
 07:30 ROT DRILL F/ 15,448' T/ 15,518', 70' @ 64 FPH.
 08:30 SLD F/ 15,518' T/ 15,542', 24' @ 16 FPH TF:30R
 10:00 ROT DRILL F/ 15,542' T/ 15,989', 447' @ 63.9 FPH.
 17:00 SLD F/ 15,989' T/ 16,005', 16' @ 32 FPH TF:75R
 18:00 ROT DRILL F/ 16,005' T/ 16,267', 262' @ 58.2 FPH
 22:30 SLD F/ 16,267' T/ 16,296', 29' @ 19.3 FPH TF:30R
 00:00 ROT DRILL F/ 16,296' T/ 16,361', 65' @ 65 FPH
 01:00 SLD F/ 16,361' T/ 16,387', 26' @ 20.8 FPH TF:45R
 02:15 ROT DRILL F/ 16,387' T/ 16,455', 94' @ 53.7 FPH
 04:00 SLD F/ 16,455' T/ 16,475', 20' @ 20 FPH TF:180
 05:00 ROT DRILL F/ 16,475' T/ 16,520', 45' @ 45 FPH
 Vis (s/qt): 60, Dens (lb/gal): 11.60, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
15,440.0	10,463.94	89.20	162.01	4,949.18	3.08	-4,744.79	1,407.75
15,535.0	10,462.31	92.76	162.51	5,044.12	3.78	-4,835.25	1,436.69
15,629.0	10,457.47	93.14	163.47	5,137.99	1.10	-4,925.01	1,464.15
15,723.0	10,452.36	93.10	163.32	5,231.85	0.16	-5,014.96	1,490.97
15,817.0	10,446.64	93.88	163.25	5,325.67	0.83	-5,104.82	1,517.96
15,911.0	10,440.62	93.46	162.34	5,419.46	1.06	-5,194.43	1,545.70
16,006.0	10,434.09	94.42	163.61	5,514.23	1.67	-5,285.05	1,573.45
16,100.0	10,427.89	93.15	164.19	5,608.02	1.48	-5,375.16	1,599.46
16,195.0	10,423.68	91.92	163.29	5,702.92	1.60	-5,466.27	1,626.04
16,289.0	10,419.58	93.09	162.78	5,796.83	1.36	-5,556.09	1,653.44
16,383.0	10,410.93	97.46	166.32	5,890.38	5.97	-5,646.27	1,678.37
16,478.0	10,400.52	95.12	165.62	5,984.73	2.57	-5,737.88	1,701.26

04/02/2023

Rig Name: H&P 462

Depth = 17,641.0 Progress = 1121.0

06:00 ROT DRILL F/ 16,520' T/ 16,832', 312' @ 56.7 FPH
 11:30 SLD F/ 16,832' T/ 16,852', 20' @ 20 FPH TF:180
 12:30 ROT DRILL F/ 16,852' T/ 17,116', 264' @ 66 FPH
 16:30 SLD F/ 17,116' T/ 17,140', 24' @ 16 FPH TF:20R
 18:00 ROT DRILL F/ 17,140' T/ 17,399', 259' @ 57.6 FPH
 22:30 SLD F/ 17,399' T/ 17,424', 25' @ 14.3 FPH TF:115R
 00:15 ROT DRILL F/ 17,424' T/ 17,588', 164' @ 50.5 FPH
 03:30 SLD F/ 17,588' T/ 17,613', 25' @ 12.5 FPH TF:115R
 05:30 ROT DRILL F/ 17,613' T/ 17,641', 28' @ 56 FPH
 Vis (s/qt): 58, Dens (lb/gal): 11.65, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
16,572.0	10,393.71	93.19	164.04	6,078.46	2.65	-5,828.35	1,725.80
16,666.0	10,386.76	95.30	164.38	6,172.19	2.27	-5,918.55	1,751.30
16,760.0	10,377.04	96.56	164.95	6,265.67	1.47	-6,008.72	1,776.03
16,855.0	10,369.27	92.83	164.30	6,360.32	3.99	-6,100.00	1,801.13
16,950.0	10,366.00	91.12	163.43	6,455.26	2.02	-6,191.19	1,827.51
17,044.0	10,364.22	91.04	162.60	6,549.24	0.89	-6,281.08	1,854.97
17,138.0	10,360.23	93.83	162.56	6,643.12	2.97	-6,370.68	1,883.08
17,233.0	10,353.46	94.34	162.43	6,737.86	0.55	-6,461.05	1,911.58
17,327.0	10,344.77	96.27	161.84	6,831.42	2.15	-6,550.13	1,940.29
17,422.0	10,334.12	96.60	164.89	6,925.81	3.21	-6,640.57	1,967.32
17,516.0	10,322.27	97.89	165.05	7,019.03	1.38	-6,730.62	1,991.50
17,610.0	10,311.65	95.08	163.81	7,112.41	3.26	-6,820.58	2,016.57

04/03/2023

Rig Name: H&P 462

Depth = 18,641.0 Progress = 1000.0

06:00 ROT DRILL F/ 17,641' T/ 18,060', 419' @ 57.8 FPH
 13:15 SLD F/ 18,060' T/ 18,092', 32' @ 16 FPH TF:75R
 15:15 ROT DRILL F/ 18,092' T/ 18,155', 63' @ 50.4 FPH
 16:30 SLD F/ 18,155' T/ 18,184', 29' @ 19.3 FPH TF:90R
 18:00 ROT DRILL F/ 18,184' T/ 18,249', 65' @ 65 FPH
 19:00 SLD F/ 18,249' T/ 18,279', 30' @ 17.1 FPH TF:110R
 20:45 ROT DRILL F/ 18,279' T/ 18,344', 65' @ 43.3 FPH
 22:15 SLD F/ 18,344' T/ 18,372', 28' @ 16 FPH TF:180R
 00:00 ROT DRILL F/ 18,372' T/ 18,627', 255' @ 56.7 FPH
 04:30 SLD F/ 18,627' T/ 18,641', 14' @ 9.3 FPH TF:90R
 Vis (s/qt): 58, Dens (lb/gal): 11.70, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
17,705.0	10,304.00	94.16	163.47	7,207.10	1.03	-6,911.44	2,043.24
17,799.0	10,298.03	93.13	162.89	7,300.91	1.26	-7,001.23	2,070.38
17,894.0	10,293.35	92.51	162.53	7,395.78	0.75	-7,091.83	2,098.59
17,988.0	10,292.24	88.85	160.60	7,489.68	4.40	-7,180.98	2,128.30

18,083.0	10,292.75	90.53	160.92	7,584.55	1.80	-7,270.67	2,159.61
18,177.0	10,291.39	91.13	162.38	7,678.48	1.68	-7,359.88	2,189.20
18,272.0	10,286.05	95.31	165.48	7,773.29	5.47	-7,450.99	2,215.45
18,366.0	10,282.03	89.60	164.68	7,867.14	6.13	-7,541.70	2,239.62
18,461.0	10,283.31	88.85	163.93	7,962.13	1.12	-7,633.15	2,265.31
18,555.0	10,284.90	89.21	162.79	8,056.11	1.27	-7,723.20	2,292.23

04/04/2023

Rig Name: H&P 462

Depth = 18,711.0 Progress = 70.0

- 06:00 ROT DRILL F/ 18,641' T/ 18,711', 70' @ 46.7 FPH
- 07:30 CIRCULATE 2 HIGH VIS SWEEPS OUT OF HOLE AND 1 BOTTOMS UP, FLOW CHECK (WELL STATIC)
- 11:45 TOOHPER SWAB MODEL @ 50 FPM F/18,711' T/15,000', F/15,000' T/10,368' @ 75 FPM, CHECK FLOW @ SHOE, F/10,368' T/9,419' @ 100 FPM, F/9,419' T/7,700' @ 125 FPM, F/7,700' T/4,355' @ 150 FPM, F/4,355' T/3,450' @ 175 FPM, F/3,450' T/108' @ 200 FPM.
- 21:15 LAYDOWN DIRECTIONAL BHA.
- 22:00 PICK UP DIRECTIONAL BHA - TKC63 BIT, MTR, MWD & TEST SAME.
- 23:15 TIH AS PER SURGE MODEL - F/108' T/2,215' @ 175 FPM, DISPLACEMENT TAPERING OFF TO -1 BBLs PER 5 STANDS - STAGE SPEED DOWN TO 125 FPM TO GAIN PROPER DISPLACEMENT - F/ 2,688' T/10,504' @ 125 FPM - INSTALL ROT HEAD - CONT TIH F/10,504' T/13,200' @ 125 FPM. EMW TO 13PPG

Vis (s/qt): 59, Dens (lb/gal): 11.65, pH: 0.0

04/05/2023

Rig Name: H&P 462

Depth = 19,309.0 Progress = 598.0

- 06:00 TIH AS PER SURGE MODEL - F/13,559' T/15,000' @ 100 FPM EMW 12.9 PPG, F/15,000' - T/17150' 75 FPM EMW 12.9 PPG, F/17,150 T/18,523' 50 FPM EMW 12.8 PPG
- 09:00 WASH TO BTM WHILE TAKING CHECK SHOTS @ 18,523' AND 18,617', DOWN LINL MWD TOOL
- 10:00 ROT/DRILL F/18,711' T/18,729' 18' @ 72 FPH
- 10:15 SLD F/ 18,729' T/ 18,754', 25' @ 25 FPH TF:60R
- 11:15 ROT/DRILL F/18,754' T/18,917' 163' @ 81.5 FPH
- 13:15 SLD F/ 18,917' T/ 18,947', 30' @ 24 FPH TF:45R
- 14:30 ROT/DRILL F/18,947' T/19,105' 158' @ 135.3 FPH
- 16:00 SLD F/ 19,105' T/ 19,135', 30' @ 30 FPH TF:90R
- 17:00 SERVICE RIG
- 17:30 ROT/DRILL F/19,135' T/19,293' 158' @ 105.3 FPH
- 19:00 ATTEMPT TO SLIDE @ 19,293' - GAINED 900 PSI PUMP PRESSURE & MWD FLAT LINED - ROT DRILL F/ 19,293' T/ 19,309' TO ATTEMPT TO REGAIN PULSES ON MWD - MWD STILL FLAT LINED.
- 19:45 TRANSFER SWEEPS FROM PREMIX TO TT - FILL PREMIX WITH 20 BBLs OF DIESEL - PUMP 20 BBL DIESEL SWEEP TO CLEAN MWD, NO SUCCESS - CIRC 30 BBL HIGH VIS SWEEP AROUND TO CLEAN HOLE PRIOR TO TRIP OUT.
- 23:15 FLOW CHECK - TOOHPER F/ 19,309 T/ 18,365' @ 40 FPM - PUMP SLUG - TOOHPER F/ 18,365' T/ 15,000' @ 50 FPM - F/ 15,000' T/ 10,154' @ 75 FPM - FLOW CHECK @ SHOE - F/ 10,154' T/ 7,400' @ 100 FPM - SWAB MODEL TO MAINTAIN A MINIMUM OF 10.5 PPG EMW.

Vis (s/qt): 55, Dens (lb/gal): 11.60, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
18,654.0	10,287.17	88.17	162.22	8,155.06	1.20	-7,817.59	2,321.98
18,751.0	10,289.98	88.51	164.06	8,252.01	1.93	-7,910.38	2,350.10
18,845.0	10,292.63	88.25	163.55	8,345.97	0.61	-8,000.61	2,376.31
18,940.0	10,294.35	89.68	163.93	8,440.95	1.56	-8,091.79	2,402.90
19,033.0	10,294.46	90.19	162.33	8,533.95	1.81	-8,180.79	2,429.89
19,127.0	10,294.97	89.18	163.87	8,627.94	1.96	-8,270.72	2,457.21
19,221.0	10,297.67	87.53	162.44	8,721.89	2.32	-8,360.65	2,484.44

04/06/2023

Rig Name: H&P 462

Depth = 19,472.0 Progress = 163.0

- 06:00 TOOHPER F/ 7400 T/ BHA' AS PER SWAB MODEL TO MAINTAIN A MINIMUM OF 10.5 PPG EMW. PULL ROTATING HEAD, L/D AGITATOR TEST AGITATOR WITH 2430 PSI WITHOUT 2380= 50PSI DROP.
- 11:00 TROUBLE SHOOT ROTATING HEAD CLAMP.
- 11:30 PJSM ON CHANGING OUT BHA, DRAIN THE MOTOR, BREAK OFF THE BIT, PULL THE MWD TOOL, INSPECT ENTIRE BHA FOR TRASH/DEBRIS.
- 12:30 MAKE UP NEW BIT, INSTALL AND SHALLOW TEST MWD. GOOD TEST.
- 13:45 TRIP IN THE HOLE F/ BHA T/ 2,476' AT 125 FPM TO MAINTAIN SURGE UNDER 13.8 PPG EMW.
- 14:45 PICK UP AGITATOR AND TEST. BEFORE 1550 PSI AFTER 1850 PSI.

15:15 TRIP IN THE HOLE F/ 2,476' T/ 10,446' AT 125 FPM TO MAINTAIN SURGE UNDER 13.8 PPG EMW.
 19:15 SLIP AND CUT DRILL LINE, CHECK OIL LEVELS AND GREASE RIG FLOOR EQUIPMENT.
 20:30 TRIP IN THE HOLE F/ 10,446' T/ 19,100' AT 100 FPM TO MAINTAIN SURGE UNDER 13.8 PPG EMW.
 01:15 WASH F/ 19,100' T/ 19,309 - CHECK SHOT - DOWNLINK TO MWD, TOOK SEVERAL ATTEMPTS FOR MWD TO ACCEPT DOWNLINK.
 03:15 SLIDE DRILL F/ 19,309' T/ 19,339' - 30' @ 24 FPH - TF 70R
 04:30 ROT DRILL F/ 19,339' T/ 19,472' - 133' @ 88.7 FPH
 Vis (s/qt): 71, Dens (lb/gal): 12.10, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
19,315.0	10,301.14	88.24	164.03	8,815.82	1.85	-8,450.59	2,511.53
19,410.0	10,304.64	87.54	164.80	8,910.74	1.09	-8,542.03	2,537.04

04/07/2023

Rig Name: H&P 462

Depth = 20,410.0 Progress = 938.0

06:00 ROT DRILL F/ 19,472' T/ 19,482' - 10' @ 13.3 FPH
 06:45 TROUBLESHOOT MWD.
 07:15 SLIDE DRILL F/ 19,482' T/ 19,517' - 35' @ 28 FPH - TF 30R
 08:30 ROT DRILL F/ 19,517' T/ 19,576' - 59' @ 59 FPH
 09:30 SLIDE DRILL F/ 19,576' T/ 19,591' - 15' @ 30 FPH - TF 45R
 10:00 TROUBLESHOOT LOST PRESSURE WHILE SLIDING, ISOLATED ALL SURFACE EQUIPMENT AND FOUND VALVE / SEAT ISSUE ON MUD PUMP 1.
 10:45 ROT DRILL F/ 19,591' T/ 19,859' - 268' @ 76.6 FPH
 14:15 SLIDE DRILL F/ 19,859' T/ 19,883' - 24' @ 13.7 FPH - TF H/S
 16:00 ROT DRILL F/ 19,883' T/ 20,007' - 124' @ 82.7 FPH
 17:30 SLIDE DRILL F/ 20,007' T/ 20,038' - 31' @ 17.7 FPH - TF 45R
 19:15 ROT DRILL F/ 20,038' T/ 20,048' - 10' @ 40 FPH
 19:30 SLIDE DRILL F/ 20,048' T/ 20,062' - 14' @ 8 FPH - TF 45R
 21:15 ROT DRILL F/ 20,062' T/ 20,142' - 80' @ 53.3 FPH
 22:45 SLIDE DRILL F/ 20,142' T/ 20,172' - 30' @ 15 FPH - TF HS
 00:45 ROT DRILL F/ 20,172' T/ 20,410' - 238' @ 45.3 FPH
 Vis (s/qt): 64, Dens (lb/gal): 11.85, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
19,504.0	10,307.60	88.85	164.47	9,004.68	1.44	-8,632.62	2,561.93
19,599.0	10,307.53	91.23	166.25	9,099.63	3.13	-8,724.53	2,585.94
19,693.0	10,304.63	92.31	167.11	9,193.46	1.47	-8,815.95	2,607.59
19,787.0	10,304.56	87.77	165.32	9,287.34	5.19	-8,907.22	2,629.98
19,882.0	10,305.87	90.66	164.21	9,382.30	3.26	-8,998.86	2,654.94
19,976.0	10,307.83	86.95	162.15	9,476.26	4.51	-9,088.80	2,682.13
20,070.0	10,310.98	89.20	165.17	9,570.19	4.00	-9,178.94	2,708.55
20,165.0	10,308.66	93.60	164.07	9,665.12	4.77	-9,270.48	2,733.73
20,260.0	10,303.08	93.14	163.36	9,759.96	0.89	-9,361.51	2,760.33
20,354.0	10,297.60	93.54	163.35	9,853.80	0.43	-9,451.42	2,787.20

04/08/2023

Rig Name: H&P 462

Depth = 20,498.0 Progress = 88.0

06:00 ROT DRILL F/ 20,410' T/ 20,498' - 88' @ 35.2 FPH. DECISION MADE TO CALL TD DUE TO LOW ROP AND ERRATIC TORQUE. TD OF 20498' MD / 10284' TVD
 08:30 PUMP 25 BBLS SWEEP ON BOTTOMS, ONCE BACK TO SURFACE PUMP A SECOND 25 BBLS SWEEP FOLLOWED BY 3 ADDITIONAL BOTTOMS UP. RACK BACK 1 STAND AFTER EACH BOTTOMS UP. FLOW CHECK THE WELL-STATIC.
 17:15 TRIP OUT OF THE HOLE F/ 20,038' T/ 19,002'. FOLLOWING SWAB MODEL OF 10.5 PPG EMW.
 18:00 TIH F/ 19,002' T/ 20,498' - FOLLOWING SURGE MODEL OF 14.5 EMW.
 19:15 CIRCULATE SWEEP - CIRC ONE ADDITIONAL BOTTOMS UP - SHAKERS CLEAN.
 23:15 TOOH F/ 20,498' T/ 19,100' - FOLLOWING SWAB MODEL OF 10.5 PPG EMW.
 00:00 ESTABLISH CIRCULATION - PUMP SLUG - CLEAN RIG FLOOR
 00:30 LDDP F/ 19,100' T/ 13,500' - FOLLOWING SWAB MODEL OF 10.5 PPG EMW.
 Vis (s/qt): 59, Dens (lb/gal): 11.80, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
20,436.0	10,290.86	95.89	161.80	9,935.49	3.43	-9,529.39	2,811.67
20,498.0	10,284.50	95.89	161.80	9,997.13	0.00	-9,587.97	2,830.94

04/09/2023

Rig Name: H&P 462

Depth = 20,498.0 Progress = 0.0

06:00 TRIP OUT OF THE HOLE LAYING DOWN DP F/ 13,500' T/ 10,500' - FOLLOWING SWAB MODEL OF 10.5 PPG EMW.
 09:00 CLEAN AND CLEAR RIG FLOOR. STAGE MORE THREAD PROTECTORS TO THE FLOOR.

09:15 PULL THE ROTATING HEAD.
09:45 TRIP OUT OF THE HOLE LAYING DOWN DP F/ 10,500' T/ 2,476' - FOLLOWING SWAB MODEL OF 10.5 PPG EMW
15:45 TRIP IN HOLE WITH 15 STANDS RACKED IN DERRICK T/ 3,900'.
16:15 TRIP OUT OF THE HOLE LAYING DOWN DP F/ 3,900' T/ 108' - FOLLOWING SWAB MODEL OF 10.5 PPG EMW.
20:45 LAYDOWN DIRECTIONAL BHA - BIT WAS RUNG OUT, GRADED 3-8-RO-S-X-1-BT-TD
22:00 CLEAN RIG FLOOR - INSTALL V-DOOR BUMP GATE.
22:45 PULL WEAR BUSHING.
23:15 PJSM - RIG UP CASING EQUIPMENT.
01:00 RUN 5.5" PROD CSG - P/U SHOE, CSG JNT, F-COLLAR, CSG JNT, PUP, TOE SLEEVE, PUP & CHECK FLOATS - RUN 5.5" 20# EIP-110 TLW CSG JNTS TO 3,800'.
Vis (s/qt): 71, Dens (lb/gal): 11.70, pH: 0.0

04/10/2023

Rig Name: H&P 462

Depth = 20,498.0 Progress = 0.0

06:00 RUN 5.5" 20# EIP-110 TLW CSG JNTS F/ 3,800' T/ 5,890', MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FLOATING CASING IN.
08:15 CHANGE OUT ELEVATORS DUE TO LATCH NOT PROPERLY CLOSING.
08:30 RUN 5.5" 20# EIP-110 TLW CSG JNTS F/ 5,890' T/ 8,871', MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FLOATING CASING IN. CUMULATIVE TOTAL OF 218 JOINTS AND 2 MARKER JOINTS HAVE BEEN RUN.
12:00 RUN 5.5" 20# EIP-110 TLW CSG JNTS F/ 8,871' T/ 10,544', MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FLOATING CASING IN. CUMULATIVE TOTAL OF 259 JOINTS, 4 MARKER JOINTS AND FLOATATION SUB HAVE BEEN RUN.
14:00 RUN 5.5" 20# EIP-110 TLW CSG JNTS F/ 10,544' T/ 13,993', MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FILLING WITH 11.5 PPG MUD. CUMULATIVE TOTAL OF 345 JOINTS 4 MARKER JOINTS AND FLOATATION SUB HAVE BEEN RUN.
18:00 RUN 5.5" 20# EIP-110 TLW CSG JNTS F/ 13,993' T/ 20,445', MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FILLING WITH 11.5 PPG MUD. CUMULATIVE TOTAL OF 505 JOINTS 5 MARKER JOINTS AND FLOATATION SUB HAVE BEEN RUN.
01:45 PICK UP HANGER PUP, MANDREL & LANDING JOINT - LAND OUT CASING @ 20,478' W/ 191K STRING WT MINUS 43K BLOCK WT = 148K - FLOAT SHOE @ 20,478', FC @ 20,453', TOE SLEEVE @ 20,406'.
02:15 RIG DOWN CRT & CSG EQUIP - INSTALL TIW, X/O & CEMENT HEAD.
02:45 FILL CASING - RUPTURE AIR LOCK @ 2,626 PSI - CONTINUE TO FILL PIPE & ESTABLISH CIRCULATION - CIRC 1.5 TIMES CSG CAP.
Vis (s/qt): 0, Dens (lb/gal): 0.00, pH: 0.0

04/11/2023

Rig Name: H&P 462

Depth = 20,498.0 Progress = 0.0

06:00 FINISH CIRCULATION OF 1.5 CASING CAPACITIES AT 4BPM MONITORING BBL IN/OUT.
07:00 RIG UP CEMENTING IRON AND PRESSURE TEST TO 8000 PSI. GOOD TEST.
07:30 PJSM, RIG UP HALLIBURTON, TEST LINES T/8000 PSI, PUMP 100 BBL OF 11.8 PPG SPACER AT 4 BPM, FOLLOWED BY 113 BBL LEAD (335 SX, 1.89 CU/FT SK YIELD, 10.64 GAL/SK) 12 PPG CEMENT AT 4 BPM. PUMPED 191BBL TAIL(635 SX,1.69 YIELD,9.09 GAL/SX) 12.5 PPG DROPPED PLUG AND DISPLACED WITH 20 BBL OF MCCR AND SUGAR WATER. FOLLOWED WITH 433 BBL 10.0 PPG INHIBITED BRINE AT 4 BPM, UTILIZING BOTH CEMENT TRUCKS FOR 453 BBL. BUMPED PLUG AT 2850 PSI AND WENT TO 3875 PSI. BLEED OFF 4.5 BBL. FLOATS HELD. 100 PERCENT RETURNS THROUGHOUT THE JOB AND APPROXIMATELY 80 BBL OF SPACER TO SURFACE.
11:30 RIG DOWN CEMENT HEAD AND IRON.
12:00 BACK OUT AND LAYDOWN THE LANDING JOINT
12:30 RIG DOWN CASING ELEVATORS AND BALES.
13:00 RIG UP PACK OFF SETTING TOOL.
13:15 SET AND TEST PACK OFF.
14:00 NIPPLE DOWN BOP, BREAK DSA, MPD, HYDRAULIC CHOKE, KATCH KAN. PERFORMING PIT CLEANING.
15:30 RIG DOWN MPD, LINES TO THE ORBIT VALVE, HYDRAULIC CLAMP, KATCH CAN.
18:00 RIG DOWN DSA & SPEED HEAD - INSTALL WELL CAP.
21:00 FINISH CLEANING PITS - RELEASE RIG FROM TILDEN 12H TO TELLER 2H @ 00:00 HRS ON 4/11/2023.
00:00 NOOP.
Vis (s/qt): 61, Dens (lb/gal): 11.50, pH: 0.0