

**FORGE ENERGY OPERATING, LLC.**  
**UL Tilden 16-32-31 WB1 1H**  
**API Number: 42-475-38257**

**12/19/2021**

Rig Name: H&P 462

Depth = 0.0 Progress = 0.0

06:00RIG MOVING: POWER DOWN GENS, UNPLUG WIRES, RIG DOWN PITS AND PUMPS, TRIP TANKS, PUMP PARTS HOUSE, DIESEL TANK, MUD DIESEL TANK, WATER TANK, SHAKER SKID, DOG HOUSE, LAY OVER DERRICK, SQUAT SUBS, MOVE CAMPS / TOOLPUSHER HOUSE, FLOW LINE MANIFOLD, SPLIT BLOCKS, RIG DOWN DRILL LINE SPOOL, SPLIT DERRICK, RIG DOWN MUD BOAT, DRAWWORKS, CENTER STEAL, D/S SUBS, ODS SUBS, SKID RAILS, HPU SKID, SET SKIDS ON EDGE OF LOCATION TO BE READY TO LOAD OUT, PRESSURE WASH MAST AND SKID, CONDUCTED YEARLY INSPECTION ON TONGS, BALES, SLIPS, ELEVATORS, PUT TONGS / SLIPS BACK TOGETHER. TILDEN LOCATION: SET GENS VFD, MUD PUMPS, SUCTIONS PIT, MCC, PUMP PARTS HOUSE, PLUGGED IN WIRES ON VFD / MUD PUMPS, RIG UP CAMP / TOOL PUSHER HOUSE

**12/20/2021**

Rig Name: H&P 462

Depth = 0.0 Progress = 0.0

06:00SET WATER TANK, DIESEL TANK, TRIP TANKS, SHAKER SKID, SKID RAILS, MUD BOAT, DRAWWORKS, ODS SUBS, CENTER STEAL, RAISE MAST TO FLOOR, RAISE MAST VERTICAL, PLUG IN WIRES ON DERRICK AND DOGHOUSE, SET PIPE WRANGLER / V-DOOR, FLOW LINE MANIFOLD, FLOW LINE, RIG UP IN-LINE SCREEN, FLOOR HOIST, INSTALL DRESSER SLEEVE CONNECTION ON FLOW LINE, HOOK UP GROUND WIRES, INSTALL TRANSFER HOSES IN BACK YARD AND PVC ON DUMP LINES

**12/21/2021**

Rig Name: H&P 462

Depth = 0.0 Progress = 0.0

06:00RIG UP: HOOK UP SKID CYLINDERS, SET PDS STAIRS, PLUG IN PDS, FIRE UP GENS AND GET RIG POWERED UP, SET SUBMERSIBLE PUMPS FOR FRESH AND BRINE WATER, INSTALLED DUMP LINE AND SAND TRAP, INSERT SHAKER TROUGHES, FINISH MISC ON TOP OF MUD TANKS, HOOK UP AIR SUPPLY TO MUD PUMPS, SET DIVERTER IN PLACE AND HANG ON BOP HANDLER, HOOK UP GAS BUSTER LINES, HOOK UP ALL HOSES TO TRIP TANKS AND FLOW LINE, SCREEN UP SHAKERS WITH 140, SPOOL UP DW, LAY OUT LINEBACKERS

18:00TROUBLESHOOT TOPDRIVE COMMUNICATION CABLE, REMOVE LIVING QUARTERS FROM GENERATOR POWER AND PUT ON RIG POWER, GET TONGS / SLIPS UP TO RIG FLOOR, ASSIST WELDER WITH RISER AND DIVERTER, FILL EYE WASH STATIONS, COMPLETE PRE SPUD CHECKLIST, DRESS OUT BOARD

04:00ATTEMPT TO TORQUE IBOP FAILED DUE TO GRABBER BOX NOT FUNCTIONING, WAIT ON ELECTRIAN TO TROUBLESHOOT ISSUE WITH TOPDRIVE

SIMOPS: FABRICATE AND R/U DIVERTER SYSTEM

**12/22/2021**

Rig Name: H&P 462

Depth = 0.0 Progress = 0.0

06:00 COMPLETE REPAIRS ON TOPDRIVE, STAND UP BOP AND HANG ON HANDLER, SKID BOP TRANSPORT BACK, TORQUE UP SAVER SUB AND COPRESSION RINGS

08:00 ACCEPT RIG ON DAY WORK 12/21/2021 06:00. FABRICATE AND R/U DIVERTER SYSTEM: TORQUE UP BOLTS AT MUD CROSS / ANNULAR / FLANGE BETWEEN ANNULAR AND RISER. ADJUST FLOWLINE MANIFOLD FOR DIVERTER LINES, M/U DIVERTER LINES, CHANGE FITTINGS ON HYDRAULIC LINES FROM ANNULAR TO HCR AND INSTALL

18:00 INSTALL FILL UP LINE, MUD BUCKET LINE, BLEED OFF LINE, TURNBUCKLES, DRESSER SLEEVE ON FLOW LINE, CELLAR PUMPS, KILL LINE, ACCUMULATOR LINES TO ANNULAR / HCR, DIVERTER LINES, INSTALL MOUSE HOLE, INSTALL 10" STEAL ON DUMP LINE AND TROUGH, HOOK UP PVC TO DUMP LINE AND TROUGH

01:30 STRAP AND PICK UP 6 1/2" DC'S (12) / RACK BACK IN DERRICK

03:30 PICK UP 12 1/4" SURFACE ASSEMBLY (BHA #1): NMDC, UBHO

04:15 RIG REPAIR: TROUBLESHOOT PRESSURE SENSOR, ABILITY TO MOVE BLOCKS

05:00 PICK UP 12 1/4" SURFACE ASSEMBLY (BHA #1): BIT, MOTOR, STAB, STAB, DC, STAB, SHOCK SUB, X/O. SCRIBE, INSTALL FLOAT

Vis (s/qt): 26, Dens (lb/gal): 8.40, pH: 8.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
335.0	334.96	1.44	180.63	3.40	0.81	-4.15	-2.06
429.0	428.91	2.38	170.68	6.47	1.06	-7.25	-1.76

## 12/23/2021

Rig Name: H&P 462

Depth = 1,922.0 Progress = 1787.0

06:00 FUNCTION TEST DIVERTER SYSTEM, CORRECT LEAK ON HYDRAULIC LINE, MU JET LINE TO FLOW LINE AND FUNCTION TEST PUMPS, PRESSURE TEST SURFACE SYSTEM (FAILED 4" MP VALVE) START REBUILD ON SAME, ORGANIZING YARD FOR SURFACE CASING.

09:30 REBUILD 4" VALVE ON #2 MUD PUMP, ATTEMPT TO PRESSURE TEST MUD LINE, 2" KILL LINE VALVE FAILED, REPLACE 2" KILL LINE VALVE AND TEST SURFACE SYSTEM (PASSED)

14:15 REPAIR LEAKING DRESSER SLEEVE ON FLOW LINE.

16:00 PJSM ON PICKING UP BHA, P/U STABILIZER / ONE STAND DC'S / X/O, C/O ELEVATORS

17:15 ROT DRL F/ 135' TO 223', 88' @ 352 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

17:30 PICK UP SHOCK SUB, C/O ELEVATORS

18:15 ROT DRL F/ 223' TO 596', 373' @ 186 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

20:15 SLD DRL F/ 596' TO 616', 20' 354M @ 80 FPH

20:30 ROT DRL F/ 616' TO 885', 269' @ 538 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

21:00 SLD DRL F/ 885' TO 910', 25' 330M @ 50 FPH

21:30 ROT DRL F/ 910' TO 1092', 182' @ 364 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION. SWEEP HOLE WITH 80 BBLs CLEAR SEAL-5, DISPLACE F/ FRESH WATER TO BRINE. TRANSFER JET SUCTIONS, SAND TRAP, DUMP LINE, AND TROUGH TO INNER RESERVE.

22:00 SLD DRL F/ 1,092' TO 1,121', 29' 330M @ 116 FPH

22:15 ROT DRL F/ 1,121' TO 1,277', 156' @ 312 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

22:45 SLD DRL F/ 1,277' TO 1,307', 30' 20M @ 120 FPH

23:00ROT DRL F/ 1,307' TO 1,922', 615' @ 307 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

01:00RIG REPAIR - GENERATORS #1 AND #4 - TROUBLESHOOT AND REPAIR

Vis (s/qt): 26, Dens (lb/gal): 10.00, pH: 7.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
159.0	158.99	1.02	218.75	0.81	0.64	-1.10	-0.89
248.0	247.98	0.97	206.58	1.82	0.24	-2.40	-1.72
524.0	523.80	2.99	177.24	10.84	0.72	-11.68	-1.32
620.0	619.72	1.64	199.23	14.39	1.66	-15.47	-1.65
715.0	714.69	1.42	207.90	16.34	0.34	-17.80	-2.65
810.0	809.64	2.17	193.22	18.75	0.92	-20.59	-3.61
906.0	905.60	1.05	215.55	20.87	1.32	-23.07	-4.54
1,000.0	999.59	0.79	207.30	21.87	0.31	-24.35	-5.34
1,094.0	1,093.58	1.07	178.44	23.19	0.57	-25.80	-5.61
1,188.0	1,187.55	1.77	154.42	25.47	0.96	-27.99	-4.96
1,283.0	1,282.52	1.30	124.57	27.76	0.96	-29.93	-3.44
1,377.0	1,376.49	1.81	61.12	28.26	1.80	-29.81	-1.26
1,472.0	1,471.46	1.24	57.04	27.64	0.61	-28.53	0.92
1,566.0	1,565.45	0.56	340.61	26.89	1.31	-27.54	1.62
1,661.0	1,660.44	0.90	313.28	25.78	0.50	-26.59	0.92
1,755.0	1,754.42	1.23	318.76	24.23	0.37	-25.33	-0.28
1,850.0	1,849.39	1.57	313.58	22.18	0.38	-23.66	-1.90
1,944.0	1,943.35	1.72	305.60	19.96	0.29	-21.96	-3.98

**12/24/2021**

Rig Name: H&P 462

Depth = 4,394.0 Progress = 2472.0

06:00CONT' RIG REPAIR - GENERATORS #1 AND #4 - TROUBLESHOOT AND REPAIR

11:30ROT DRL F/ 1,922' TO 2,399', 477' @ 207 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

14:00SLD DRL F/ 2,399' TO 2,419', 20' 120M @ 80 FPH

14:15ROT DRL F/ 2,419' TO 2,778', 359' @ 179.5 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

16:15SLD DRL F/ 2,778' TO 2,808', 30' 100M @ 40 FPH

17:00ROT DRL F/ 2,808' TO 2,874', 66' @ 264 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

17:15SLD DRL F/ 2,874' TO 2,895', 21' 100M @ 42 FPH

17:45ROT DRL F/ 2,895' TO 3,530', 635' @ 158.8 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION, CLOSED LOOP F/18:20 T/19:20 LOSS 48 BBLs.

21:45SLD DRL F/ 3,530' TO 3,560', 30' 200M @ 40 FPH

22:30ROT DRL F/ 3,560' TO 3,815', 255' @ 170 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

00:00SLD DRL F/ 3,815' TO 3,845', 30' 230M @ 40 FPH

00:45ROT DRL F/ 3,845' TO 4,005', 160' @ 128 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

02:00SLD DRL F/ 4,005' TO 4,035', 30' 250M @ 40 FPH

02:45ROT DRL F/ 4,035' TO 4,285', 250' @ 142.9 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION, CLOSED LOOP F/04:00 T/05:00 LOSS 46 BBLs.

04:30SLD DRL F/ 4,285' TO 4,315', 30' 300M @ 40 FPH

05:15ROT DRL F/ 4,315' TO 4,394', 79' @ 105.3 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

Vis (s/qt): 33, Dens (lb/gal): 9.90, pH: 7.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
2,039.0	2,038.30	2.08	306.18	17.47	0.38	-20.11	-6.53
2,134.0	2,133.23	2.25	300.18	14.75	0.30	-18.15	-9.53
2,228.0	2,227.14	2.81	292.08	11.98	0.71	-16.36	-13.26
2,323.0	2,322.01	3.33	286.88	9.02	0.62	-14.68	-18.06
2,417.0	2,415.88	2.56	282.25	6.53	0.86	-13.44	-22.72
2,512.0	2,510.79	2.40	276.48	4.74	0.31	-12.77	-26.77
2,606.0	2,604.69	2.97	276.62	3.03	0.61	-12.27	-31.15
2,700.0	2,698.53	3.74	273.32	1.05	0.84	-11.81	-36.63
2,794.0	2,792.36	3.23	258.39	-0.19	1.10	-12.16	-42.28
2,889.0	2,887.28	1.26	235.16	-0.08	2.24	-13.30	-45.76
2,983.0	2,981.27	0.34	148.80	0.52	1.37	-14.13	-46.47
3,078.0	3,076.27	0.31	92.19	0.87	0.33	-14.38	-46.06
3,173.0	3,171.26	1.06	31.43	0.36	1.00	-13.64	-45.35
3,267.0	3,265.21	2.68	35.17	-1.59	1.73	-11.10	-43.63
3,361.0	3,359.07	3.45	35.61	-4.70	0.82	-7.00	-40.72
3,455.0	3,452.87	4.11	33.93	-8.60	0.71	-1.91	-37.19
3,550.0	3,547.69	2.97	42.01	-12.07	1.31	2.74	-33.64
3,644.0	3,641.60	1.83	50.97	-13.93	1.27	5.50	-30.85
3,739.0	3,736.54	2.49	46.62	-15.46	0.72	7.87	-28.17
3,834.0	3,831.47	1.67	45.86	-17.05	0.86	10.25	-25.67
3,928.0	3,925.43	1.79	35.27	-18.60	0.36	12.40	-23.84
4,023.0	4,020.38	1.84	19.68	-20.75	0.52	15.05	-22.47
4,118.0	4,115.34	1.82	352.61	-23.48	0.90	17.98	-22.15
4,213.0	4,210.29	1.65	356.33	-26.30	0.21	20.84	-22.43
4,307.0	4,304.23	2.57	330.32	-29.67	1.39	24.03	-23.57

**12/25/2021**

Rig Name: H&P 462

Depth = 4,799.0 Progress = 405.0

06:00ROT DRL F/ 4,394' TO 4,482', 88' @ 176 FPH, PUMP 15 BBL HIGH VIS SWEEP EVERY CONNECTION

06:30SLD DRL F/ 4,482' TO 4,512', 30' 270M @ 40 FPH

07:15ROT DRL F/ 4,512' TO 4,584', 72' @ 144 FPH

07:45SLD DRL F/ 4,584' TO 4,604', 20' 270M @ 26.6 FPH

08:30ROT DRL F/ 4,604' TO 4,772', 168' @ 134.4 FPH

09:45CBU FOR SAMPLES TO CONFIRM TOP OF LAMAR

10:45ROT DRL F/ 4,772' TO 4,799', 27' @ 54 FPH

11:15CIRCULATE 3 X 40 BBL HIGH VIS SWEEPS TO CLEAN HOLE.

SWEEPS CAME BACK 242.5 BBLS AFTER CALCULATED.

FLOW CHECK WELL (WELL STATIC)

14:45TOH (SLM) F/ 4,799' TO BHA

NOTE: (NO CORRECTIONS MADE ON SLM)

18:30L/D SHOCK SUB, STAB, MONEL, PULL MWD, DRAIN MOTOR BREAK BIT GRADE BIT 1 INNER- 3 OUTER- IN GAUGE 4 PLUGGED JETS WITH RUBBER FROM MOTOR, RACK BACK MOTOR, MONEL & 2 STABS

20:00SERVICE RIG/ ROUGH DRILLING INSPECTION  
 20:45PJSM, RIG UP CASING EQUIP.  
 22:00PJSM W/ CSG CREW, ENNOVEX & WELLSITE SUPERVISOR, RUN 112 JOINTS OF  
 9.625" 40# J55/LTC CASING.  
 04:15WASH DOWN F/4,575' T/4,594' @ 330 GPM  
 04:45CIRCULATE BTMS UP  
 Vis (s/qt): 34, Dens (lb/gal): 9.90, pH: 7.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,401.0	4,398.10	3.41	323.97	-34.36	0.96	28.12	-26.25
4,496.0	4,492.91	4.00	306.03	-39.64	1.36	32.35	-30.59
4,591.0	4,587.60	5.24	292.02	-44.95	1.76	35.93	-37.30
4,685.0	4,681.15	5.95	287.72	-50.34	0.88	39.02	-45.92
4,727.0	4,722.93	5.67	287.79	-52.72	0.67	40.32	-49.97

### 12/26/2021

Rig Name: H&P 462  
 Depth = 4,799.0 Progress = 0.0  
 06:00WASH CASING F/ 4,594' TO 4,799'  
 RAN 117 JTS OF 9 5/8", 40#, J55, LTC CASING, FS ON BOTTOM @ 4,799', FC @  
 4,755', DV TOOL @ 2,205'.  
 07:45CIRC SWEEP AROUND 350 GPM 327 PSI WHILE SPOTTING & RU HALLIBURTON, PJSM  
 ON CEMENTING HELD WHILE CIRCULATING.  
 09:45RD CRT, RU CEMENT HEAD & RED IRON  
 10:00CEMENT STAGE 1 AS PER PROGRAM.  
 TEST LINES TO 5000 PSI.  
 PUMP 40 BBL GEL SPACER.  
 PUMP 609 BBLs, 1810 SKS 12.9# LEAD CEMENT @ 8 BPM.  
 PUMP 115 BBLs, 390 SKS 13.7# TAIL CEMENT @ 8 BPM.  
 DROP PLUG & DISPLACE WITH 361 BBLs FW @ 8 BPM SLOWING TO 4 BPM & 2BPM  
 TO BUMP.  
 BUMPED PLUG WITH 1500 PSI INCREASING TO 2000 PSI.  
 CHECKED FLOATS, 3 BBLs BK (FLTS HELD)  
 FULL RETURNS THROUGHOUT JOB WITH 111 BBLs CEMENT BACK TO SURFACE.  
 13:15PURSSURE UP TO 1500 PSI AND HOLD FOR 30 MIN CASING TEST, (TEST GOOD).  
 SIMOPS: FLUSH SURFACE DIVERTER SYSTEM & RISER OF CEMENT.  
 13:45DROPPED CANCELATION BOMB & WAIT FOR IT TO FALL; PRESSURE UP TO 1,200 PSI  
 AND CANCEL DV TOOL.  
 14:15RD HALLIBURTON CEMENT EQUIPMENT  
 14:45PJSM- ND DIVERTER SYSTEM: RD TURN BUCKLES, FILL UP LINE, DRESSER SLEEVE,  
 ND DIVERTER BELOW MUD CROSS, ROUGH CUT CONDUCTOR AND CASING, RACK  
 BACK ANNULAR & RISER, REMOVE CONDUCTOR SPOOL.  
 18:00MAKE FINAL CUTS ON CONDUCTOR AND SURFACE CASING; INSTAL WELLHEAD AND  
 WELD ON, TEST WELLHEAD TO 2,000 PSI (GOOD TEST) RELEASE RIG F/UL 16  
 TILDEN #1H @ 22:00 HRS  
 22:00NO OPS

### 01/21/2022

Rig Name: H&P 462  
 Depth = 4,799.0 Progress = 0.0  
 06:00NO OPS.  
 03:00SKID H&P RIG 462 FROM THE UL 16 TILDEN WB1 #11H TO UL 16 TILDEN TB1 #1H  
 @03:00 AM ON 1/21/2022

04:00NIPPLE UP BOP, CHOKE LINE, FLOW LINE, TEST CHOKE MANIFOLD 250/LOW  
 5000/HIGH HELD 5 MINS EACH  
 Vis (s/qt): 29, Dens (lb/gal): 10.10, pH: 10.5

**01/22/2022**

Rig Name: H&P 462

Depth = 5,583.0 Progress = 784.0

06:00INSTALL FLOWLINE SKID HANDRAILS, ENERGIZE BOP & AIR SYSTEMS TO SUB

06:30PJSM: TEST BOP TO 5,000 PSI HIGH AND 250 PSI LOW FOR 5 MINUTES EACH; TEST ANNULAR TO 3,500 PSI HIGH AND 250 PSI LOW FOR 5 MINUTES; TEST MUD LINES FROM TDS TO MUD PUMPS TO 5,000 PSI; TEST ALL FLOOR VALVES TO 5,000 PSI. ALL TESTS GOOD EXCEPT FOR KILL LINE CHECK VALVE, REBUILD CHECK VALVE AND RETEST GOOD.

11:30INSPECT & CHANGE OUT TDS DS42 SAVER SUB

13:00PULL TEST PLUG AND INSTALL WEAR BUSHING

13:30PJSM- HANDLE BHA #2: MU BIT, ORIENT UBHO, SCRIBE AND INSTALL MWD

14:45TIH F/ BHA TO 1,514'

16:30TOH F/ 1,514' TO BHA & INSTALL STABILIZER

17:30TIH TO 1,514'

18:30TIH F/ 1,514' TO 2,159' & INSTALL ROTATING HEAD  
 (PERFORM H2S DRILL W/NIGHT CREW)

19:30TOP OFF CEMENT JOB W/READY MIX CEMENT,  
 SIMOPS: RIG UP FILL UP LINE, ORBIT VALVE PSI ON BOP, CENTER BOP

20:45DRILL DV TOOL @ 2205' WOB 10K, GPM:400, RPM:20

21:00CIRCULATE B/U

21:30TEST CASING AFTER DRILLING DV TOOL @ 1500 PSI FOR 10 MINS.

21:45TIH F/2205' T/4755'

22:45DRILL FLOAT COLLAR @ 4755' SHOE @ 4797' & DISPLACE F/W W/9.8 PPG BRINE  
 WATER, WOB 10K, GPM:400, RPM:20

23:45ROT DRL F/ 4,799' TO 4,930', 131' @ 104.8 FPH

01:00SLD DRL F/ 4,930" T/4,970', 40' 30L @ 53.3 FPH

01:45ROT DRL F/ 4,970' T/5,583', 613' @ 272.4 FPH

OBSERVED FLOW INCREASE AT 5,544' MD 5,529' TVD

04:00FLOW CHECK, CIRCULATE BOTTOMS UP @ 750 GPM MONITORING GAIN/LOSS (NO GAS),

04:30CHECK FLOW WELL FLOWING @ 28 BBLS AN HR. SICP: 245 PSI, CMW 10.0 PPG,  
 5,529' TVD

SWITCHED OVER TO ROTATING HEAD, BOWL GASKET STARTED LEAKING FIX SAME,  
 MONITORING WELL

Vis (s/qt): 29, Dens (lb/gal): 10.00, pH: 11.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
4,862.0	4,857.26	5.77	289.86	-60.46	0.17	44.66	-62.70
4,956.0	4,950.64	7.43	285.20	-66.43	1.85	47.86	-73.01
5,050.0	5,043.68	8.91	286.09	-73.50	1.58	51.47	-85.87
5,145.0	5,137.46	9.46	285.22	-81.52	0.60	55.56	-100.47
5,239.0	5,230.13	9.85	282.82	-89.48	0.60	59.37	-115.76
5,334.0	5,323.66	10.37	280.93	-97.34	0.65	62.80	-132.08
5,428.0	5,415.98	11.30	280.42	-105.35	0.99	66.06	-149.45

**01/23/2022**

Rig Name: H&P 462

Depth = 7,776.0 Progress = 2193.0

06:00 ESTABLISH CIRCULATION AT DRILLING RATE THROUGH CHOKES  
06:45 ROT DRLG F/ 5,583' - T/ 5,969' (386' @ 308.8 FPH)  
MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT,  
SHUTTING IN ON CONNECTIONS SICP - 180 PSI, 0' FLARE  
08:00 SLD DRL F/ 5,969' TO 5,979', 10' 60R @ 20 FPH,  
MPD ON CHOKE  
08:30 ROT DRLG F/ 5,979' - T/ 6,063' (84' @ 336 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 173 PSI, 0' FLARE  
08:45 SLD DRL F/ 6,063' TO 6,068', 5' 150R @ 10 FPH, MPD ON CHOKE  
09:15 CHANGE OUT PISTON ON #1 MUD PUMP.  
CHANGE OUT VALVE & SEAT ON #3 MUD PUMP.  
10:00 SLD DRL F/ 6,068' TO 6,093', 25' 150R @ 33 FPH, MPD ON CHOKE  
10:45 ROT DRLG F/ 6,093' - T/ 6,158' (65' @ 130 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 176 PSI, 0' FLARE  
11:15 SLD DRL F/ 6,158' TO 6,180', 22' 120R @ 44 FPH, MPD ON CHOKE  
11:45 ROT DRLG F/ 6,180' - T/ 6,239' (59' @ 236 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 195 PSI, 0' FLARE  
12:00 REPLACE CASING PRESSURE SENSATOR ON CHOKE MANIFOLD & CHECK  
CALIBRATION ON IRON HORSE SUPER CHOKE GAUGES.  
12:15 ROT DRLG F/ 6,239' - T/ 6,336' (97' @ 194 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 327 PSI, 0' FLARE  
12:45 REPLACE CASING PRESSURE GAUGE ON SUPER CHOKE PANEL & CALIBRATE TOTCO  
ANN PRESSURE GAUGE.  
NEW SICP = 327 PSI  
13:00 SLD DRL F/ 6,336' TO 6,366', 30' 30R @ 30 FPH, MPD ON CHOKE  
14:00 ROT DRLG F/ 6,366' - T/ 6,723' (357' @ 238 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 299 PSI, 0' FLARE  
15:30 SLD DRL F/ 6,723' TO 6,753', 30' 60R @ 30 FPH, MPD ON CHOKE  
16:30 ROT DRLG F/ 6,753' - T/ 6,923' (170' @ 170 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 309 PSI, 0' FLARE  
17:30 SLD DRL F/ 6,923' TO 6,929', 6' 60R @ 24 FPH, MPD ON CHOKE  
17:45 ROT DRLG F/ 6,929' - T/ 7,007' (78' @ 156 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 303 PSI, 0' FLARE  
18:15 SLD DRL F/ 7,007' TO 7,039', 32' 30R @ 22 FPH, MPD ON CHOKE  
19:15 ROT DRLG F/ 7,039' - T/ 7,479' (440' @ 135.4 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 303 PSI, 0' FLARE  
22:30 SLD DRL F/ 7,479' TO 7,509', 30' 320M @ 24 FPH, MPD ON CHOKE  
23:45 ROT DRLG F/ 7,509' - T/ 7,762' (253' @ 92 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 375 PSI, 0' FLARE  
02:30 SLD DRL F/ 7,762' TO 7,776', 14' 280R @ 18.7 FPH, MPD ON CHOKE  
03:15 CIRCULATE B/U WHILE TROUBLE SHOOTING SUPER CHOKES, SICP:410 PSI  
03:30 PLANNED TO STRIP OUT TO SHOE F/7,776' T/4,799', DECISION WAS MADE TO STRIP  
ON OUT OF HOLE AND CHECK BIT AND MOTOR STOPPED @ 4950' STARTED FORCE  
FILLING BACK SIDE WITH 15.5 KWM,  
05:15 DUST UP KILL MUD, SICP:396 PSI  
05:45 STRIP OUT OF HOLE F/4950' T/4,500', FORCE FILL BACKSIDE W/CALCULATED FILL  
W/15.5 PPG KWM

Vis (s/qt): 30, Dens (lb/gal): 10.15, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
5,522.0	5,508.28	10.49	277.66	-112.97	1.02	68.87	-166.99
5,617.0	5,601.87	9.32	275.52	-119.34	1.29	70.76	-183.21
5,712.0	5,695.64	9.15	273.44	-124.75	0.39	71.96	-198.41

5,806.0	5,788.32	10.05	270.94	-129.71	1.05	72.54	-214.07
5,901.0	5,881.72	10.97	268.75	-134.51	1.06	72.48	-231.40
5,995.0	5,973.79	12.30	270.49	-139.73	1.46	72.37	-250.35
6,089.0	6,065.69	12.00	275.36	-146.23	1.14	73.37	-270.10
6,183.0	6,157.82	10.91	280.81	-153.89	1.63	75.95	-288.56
6,278.0	6,251.08	11.01	283.71	-162.52	0.59	79.79	-306.21
6,373.0	6,344.52	9.84	287.15	-171.53	1.39	84.33	-322.78
6,467.0	6,437.23	9.11	288.05	-180.16	0.79	89.00	-337.53
6,561.0	6,530.11	8.63	286.95	-188.22	0.54	93.37	-351.35
6,655.0	6,623.25	6.89	281.39	-194.71	2.01	96.54	-363.62
6,750.0	6,717.51	7.36	289.05	-200.88	1.11	99.65	-374.96
6,844.0	6,810.79	6.83	290.63	-207.72	0.60	103.58	-385.88
6,939.0	6,905.19	6.13	289.52	-214.09	0.75	107.27	-395.95
7,034.0	6,999.50	7.63	292.69	-221.02	1.63	111.39	-406.55
7,128.0	7,092.84	5.92	294.64	-228.13	1.84	115.82	-416.72
7,222.0	7,186.47	4.26	303.82	-233.98	1.96	119.79	-424.02
7,317.0	7,281.31	2.29	327.53	-238.51	2.47	123.35	-427.97
7,411.0	7,375.27	1.45	13.82	-241.35	1.77	126.09	-428.70
7,506.0	7,470.21	2.27	4.86	-244.14	0.91	129.13	-428.25
7,600.0	7,564.12	2.88	6.00	-248.06	0.65	133.34	-427.85
7,694.0	7,658.00	2.93	26.69	-252.00	1.11	137.83	-426.52

**01/24/2022**

Rig Name: H&P 462

Depth = 8,710.0 Progress = 934.0

06:00STRIP OUT HOLE F/4,500' T/1700',FORCE FILL BACKSIDE W/CALCULATED FILL  
W/15.5 PPG KWM FORCE FILLED WITH 107 BBLs KWM

07:45BULLHEAD 30 BBLs 15.5 PPG KWM DOWN BACKSIDE ANNULAR PSI=0, OPEN ORBIT  
VALVE CHECK FLOW WELL STATIC

08:15TOH F/1700' T/119' ( TROUBLE SHOOT SUPER CHOKE)

10:00L/D MONEL & STAB,BREAK BIT GREAD BIT 1-2-I & CHECK MOTOR NO SQUAT, C/O  
BIT, M/U NEW BIT, MONEL & STAB T/119'

11:00TIH F/119' T/1140'

12:30FILL UP BACKSIDE (365 BBLs) ESTABLISH RETURNS

13:15SHUT IN ON ANNULAR C/O ROTATING HEAD BOWL GASKET SICP:169 PSI

14:00CIRCULATE BTMS UP

14:15STAGE IN HOLE CIRCULATING BTMS UP EVERY 500' F/1423' T/7776'

19:00CIRCULATE BTM UP @ 650 GPM

19:30SLIDE DRILL F/7776' T/7806 WOB 10,SPM 169, PSI OFF 3400 ON 3600, DIFF 200,  
T/F 250MTF

20:30ROT DRLG F/ 7,806' - T/8,140' (334' @ 133.6 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 303 PSI, 1' FLARE

23:00SLIDE DRILL F/8,140' T/8,180 WOB 22,SPM 160, PSI OFF 3400 ON 3600, DIFF 200,  
T/F 315MTF

00:00ROT DRLG F/ 8,180' - T/8710' (530' @ 88.33 FPH) MPD ON CHOKE, MAINTAIN BBL  
IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 420 PSI, 1' FLARE

Vis (s/qt): 31, Dens (lb/gal): 10.05, pH: 10.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,789.0	7,752.90	2.43	22.54	-255.35	0.56	141.86	-424.66
7,883.0	7,846.83	1.96	1.20	-258.43	0.99	145.31	-423.86

7,977.0	7,940.78	1.63	11.57	-261.15	0.49	148.23	-423.56
8,072.0	8,035.74	1.80	10.21	-263.68	0.18	151.02	-423.02
8,166.0	8,129.70	1.88	315.66	-266.36	1.80	153.58	-423.84
8,261.0	8,224.65	1.91	290.72	-268.69	0.86	155.25	-426.41
8,356.0	8,319.60	1.68	271.43	-270.07	0.68	155.84	-429.28
8,451.0	8,414.55	1.98	265.47	-270.83	0.37	155.75	-432.31
8,545.0	8,508.50	2.11	278.79	-271.89	0.52	155.89	-435.64
8,639.0	8,602.43	2.26	290.66	-273.74	0.51	156.80	-439.08

**01/25/2022**

Rig Name: H&P 462

Depth = 8,856.0 Progress = 940.0

06:00ROT DRLG F/ 8,710' - T/8,856' (146' @ 83.4 FPH) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 420 PSI, 1' FLARE

07:45TROUBLE SHOOT MUD MOTOR & CIRCULATE BTMS UP,

08:30SHUT WELL IN MONITOR & RECORD SICP:448 PSI

08:45STRIP OUT OF HOLE F/8, 856' T/1,329' ( FORCE FILLING ANNULUS F/8,856' T/7,900' W/ACTIVE MUD, F/7,900' T/1,329' WITH 15.5 PPG KWM)

13:00OPEN CHOKES T/TRIP TANKPERFORM FLOW CHECK, WELL STATIC, OPEN ORBIT VALVE, CLOSE CHOKES, PULL ROTATING HEAD

13:30TOH F/1329' T/119', MONITORING WELL IN TRIP TANK

14:30PULL MWD TOOL, RACK BACK MONELS,BREAK BIT GRADE BIT 4 INNER 6 OUTER IN GAUGE, L/D MUD MOTOR, P/U NEW MOTOR MAKE UP BIT SCRIBE, M/U MONELS, INSTALL MWD TOOL

16:00TIH F/119' T/1066'

17:00ESTABLISH RETURNS FILL BACKSIDE/PUMP DOWN DRILL STRING (323 BBLs ACTIVE MUD)CIRCULATE BTMS UP

18:15STAGE IN HOLE TO CIRCULATE KWM OUT OF HOLE F/1066' T/2073'

18:45STAGE IN HOLE TO CIRCULATE KWM OUT OF HOLE F/2,073' T/3,490' CIRCULATE BU

19:45STAGE IN HOLE TO CIRCULATE KWM OUT OF HOLE F/3,490' T/4,797' CIRCULATE BU H2S PRESENT 1' FLARE

20:45STAGE IN HOLE TO CIRCULATE KWM OUT OF HOLE F/4,797' T/8,847'

22:15CIRCULATE BU TO CLEAN HOLE. SHAKERS CLEAN AFTER BTM UP. 3' FLARE WHILE CIRCULATING.

23:15DRILL ROT F/ 8,856 T/9,262 (406' @ 135 FT/HR) WOB 20-35, SPM 160, GPM 615, PSI OFF 3400 ON 3900, DIFF 500, TRQ OFF 10,000 ON 14,000, RPM 45-50 SICP:410 PSI

02:15SLIDE DRILL F/ 9,262' T/9,287'(25' @ 33 FT/HR) WOB 10, SPM 160, GPM 615, PSI OFF 3400 ON 3900, DIFF 200, T/F 150MTR

03:00DRILL ROT F/ 9,287' T/9,650' (363' @ 121FT/HR) WOB 20-38, SPM 160, GPM 615, PSI OFF 3400 ON 3900, DIFF 500, TRQ OFF 10,000 ON 14,000, RPM 50, SICP:423 PSI

Vis (s/qt): 30, Dens (lb/gal): 10.00, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
8,733.0	8,696.38	1.35	282.85	-275.39	1.00	157.70	-441.90
8,827.0	8,790.36	1.02	282.87	-276.34	0.35	158.14	-443.79
8,921.0	8,884.34	1.30	310.22	-277.64	0.65	159.01	-445.42
9,016.0	8,979.31	1.63	311.59	-279.68	0.35	160.61	-447.26
9,111.0	9,074.27	1.74	310.42	-282.03	0.12	162.44	-449.37
9,205.0	9,168.20	2.64	302.49	-284.85	1.01	164.53	-452.28
9,300.0	9,263.15	1.29	231.15	-286.09	2.67	165.03	-454.96

9,394.0	9,357.13	1.22	215.22	-285.06	0.38	163.55	-456.36
9,489.0	9,452.11	1.04	208.47	-283.82	0.24	161.96	-457.35

**01/26/2022**

Rig Name: H&P 462

Depth = 10,383.0 Progress = 733.0

06:00DRILL ROT F/ 9,650' T/10,383' (733' @ 133.2 FT/HR) WOB 20-38, SPM 160, GPM 615, PSI OFF 3400 ON 3900, DIFF 500, TRQ OFF 10,000 ON 14,000, RPM 50, SICP:388 PSI

11:30CIRCULATE BTMS UP, SHUT IN WELL MONITOR SICP:400 PSI

12:30STRIP OUT OF HOLE F/10,383' T/8,675' ( FORCE FILLING ANNULUS F/10,383' T/8,675' W/10 PPG ACTIVE MUD

14:00RIG SERVICE

14:30ST-80 HOSE, AND PIN BROKE.

15:00REPLACE MUD BUCKET

15:15STRIP OUT OF HOLE F/8,675' T/4,314' ( FORCE FILLING ANNULUS F/7,000' T/4,314' W/15.5 PPG KILL MUD

18:00STRIP OUT OF HOLE F/4,314' T/1,620' ( FORCE FILLING ANNULUS F/4,314' T/1,620' W/15.5 PPG KILL MUD

19:45FLOW CHECK @ 1,620'

20:00PULL ROTATING HEAD

20:15SAW FLOW, CLOSED BOP AND ANNULAR, BUILT KILL MUD AND BULLHEAD 55BBLs. FLOW CHECK, WELL DEAD.

21:45TOOH F/1620' TO TOP OF BHA, (FILL WITH 15.5PPG GILL MUD)

23:00SAFETY MEETING ON CHANGING BHA/CLEAN RIG FLOOR

23:30LAY DOWN X/O, NON MAG DC, STABILIZER, PULL MWD, LAY DOWN STABILIZER, BREAK BIT, LAT DOWN MOTOR.

00:00PICK UP BHA #5: PICK UP MOTOR, MAKE UP BIT, SCRIBE MOTOR, INSTALL MWD TOOL, PICK UP NON MAG DCs AND X/O

02:00INSTALL ROTATING HEAD

02:15TIH W/ BHA #5 TO 1066'

02:30TEST MWD

02:45INDUCE FLOW W/ 348 BBLs

03:30TIH F/ 1,066' T/ 2484'

04:00CIRCULATE BU TO DISPLACE KILL WEIGHT MUD

04:15TIH F/2,484 T/ 3,902'

04:45CIRCULATE BU TO DISPLACE KILL WEIGHT MUD

05:15TIH F/3,902' T/4797'

05:30CIRCULATE BU TO DISPLACE KILL WEIGHT MUD

Vis (s/qt): 31, Dens (lb/gal): 10.00, pH: 10.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
9,583.0	9,546.10	0.89	209.04	-282.70	0.16	160.58	-458.11
9,677.0	9,640.08	1.29	272.96	-282.53	1.28	159.99	-459.52
9,771.0	9,734.04	2.02	279.93	-283.62	0.80	160.33	-462.21
9,866.0	9,829.00	1.38	243.41	-284.15	1.29	160.11	-464.89
9,960.0	9,922.98	1.49	241.98	-283.70	0.12	159.03	-466.98
10,054.0	10,016.93	1.91	233.64	-282.92	0.52	157.53	-469.32
10,149.0	10,111.88	2.06	236.33	-281.86	0.19	155.64	-472.01
10,243.0	10,205.82	1.93	239.66	-280.97	0.19	153.90	-474.78
10,338.0	10,300.77	2.00	214.38	-279.54	0.91	151.73	-477.10

**01/27/2022**

Rig Name: H&amp;P 462

Depth = 10,867.0 Progress = 484.0

06:00CIRCULATE GAS OUT OF WELLBORE,

09:00STRIP IN HOLE F/4797' T/10,371', DISPLACING 1.8 BBLS PER STD.

12:00WASH F/10,371' T/10,383'

12:15DRILL ROT F/10,383' T/10,400' (17' @ 34 FT/HR) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 0 PSI, 0' FLARE

12:45SLIDE DRILL F/10,400' T/10,510 (110 @ 31.1 FPH) T/F 165MTF, MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 434 PSI, 1' FLARE

15:00SERVICICE RIG

15:30DRILL ROT F/10,510' T/10,530' (20' @ 22.7 FT/HR) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 0 PSI, 2' FLARE

16:15SLIDE DRILL F/10,530' T/10,559' (29' @ 58 FPH) T/F 10LFT, MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 428 PSI, 2-3' FLARE

16:45DRILL ROT F/10,559' T/10,575' (16' @ 64 FT/HR) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 0 PSI, 2' FLARE

17:00SLIDE DRILL F/10,575' T/10,604' (29' @ 29 FPH) T/F 10LFT, MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 428 PSI, 2-3' FLARE

18:00DRILL ROT F/10,604' T/10,617' (13' @ 52 FT/HR) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 430 PSI, 2' FLARE

18:15SLIDE DRILL F/10,617' T/10,654' (37' @ 74 FPH) T/F 20LFT, MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 428 PSI, 1' FLARE

18:45DRILL ROT F/10,654' T/10,665' (11' @ 44 FT/HR) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 420 PSI, 1' FLARE

19:00SLIDE DRILL F/10,665' T/10,701' (36' @ 36 FPH) T/F 45LFT, MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 428 PSI, 0' FLARE

20:00DRILL ROT F/10,701' T/10,714' (13' @52 FT/HR) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 420 PSI, 0' FLARE

20:15SLIDE DRILL F/10,714' T/10,748' (34' @ 27 FPH) T/F 20LFT, MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 428 PSI, 0' FLARE

21:30DRILL ROT F/10,748' T/10,796' (48' @96 FT/HR) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 420 PSI, 0' FLARE

22:00SLIDE DRILL F/10,796' T/10,832' (36' @ 24 FPH) T/F 20LFT, MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 428 PSI, 0' FLARE

23:30DRILL ROT F/10,832' T/10,867' (35' @46 FT/HR) MPD ON CHOKE, MAINTAIN BBL IN/BBL OUT, SHUTTING IN ON CONNECTIONS SICP - 420 PSI, 0' FLARE

00:15CIRCULATE DYE SWEEP, 173BBL WASH OR 23%. CIRCULATE UNTIL SHAKERS CLEAN.

02:30GET SIDP/SIC PRESSURE

03:00STRIP OUT OF HOLE F/ 10/867' T/ 4,729', SWAP TO PUMPING KILL WEIGHT MUD @ 7,650. ANN PRESSURE STARTING AT 450PSI AND ENDING AT 175 PSI

Vis (s/qt): 30, Dens (lb/gal): 10.00, pH: 10.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
10,444.0	10,406.29	8.49	175.89	-270.70	6.64	142.39	-477.59
10,491.0	10,452.29	14.82	170.78	-261.34	13.63	132.98	-476.37

10,539.0	10,498.31	18.19	171.95	-247.83	7.05	119.50	-474.34
10,586.0	10,542.44	22.00	173.98	-231.90	8.24	103.48	-472.39
10,633.0	10,585.43	25.66	172.19	-213.17	7.94	84.63	-470.08
10,680.0	10,626.97	30.05	169.34	-191.38	9.76	62.97	-466.52
10,728.0	10,667.69	33.87	166.52	-166.05	8.54	38.15	-461.18
10,775.0	10,706.31	35.61	165.36	-139.29	3.96	12.17	-454.66
10,799.0	10,725.68	36.77	164.51	-125.12	5.27	-1.51	-450.98

### 01/28/2022

Rig Name: H&P 462

Depth = 10,867.0 Progress = 0.0

06:00 MOVE 85 BBLs OF KWM FROM PRE-MIX TANK TO SLUG TANK AND WIEGHT UP TO 15.5#

07:00 STRIP OUT OF HOLE FORCEFILLING BACKSIDE WITH 15.5# KWM F/4,729' - T/1,200'

08:15 FLOW CHECK, WELL IS STATIC

08:30 TOH F/ 1,200' - T/SURFACE; DRAIN MOTOR AND BREAK BIT; LD DIRECTIONAL BHA; BIT GRADE 2 INNER, 4 OUTER, WT, FULL GAUGE

10:30 CLEAN RIG FLOOR, PULL WEAR BUSHING; PREPARE FLOOR FOR CASING RUN

11:00 RIG UP CASING CREW AND CRT; FUNCTION TEST EQUIPMENT AND E KILL SWITCH.

12:00 PJSM: MU SHOE TRACK W/ THREADLOCK; CHECK FLOATS, FLOATS GOOD; RUN A TOTAL OF 11 JTS OF 7 5/8", L80HC, 29.7#, USF CASING, TORQUING TO 15,200 FT/LBS; MU CROSS OVER JOINT AND RUN A TOTAL OF 227 JTS OF 7 5/8", L80HC, 29.7#, BTC-SCC CASING; MU LANDING JOINT AND LAND MANDREL IN WELLHEAD W/ 167K; 10,852' OF TOTAL PIPE RAN. FS @ 10,847', FC @ 10,764'; 5' STICK UP ABOVE RIG FLOOR.

21:00 PJSM, R/D CRT, POWER TONGS, FILL UP HOSE & HOSES ON HYD. UNIT

21:15 CEMENT CIRCULATING HEAD & RED IRON

21:30 FILL CSG. & BACKSIDE (88 BBLs), ESTABLISH RETURNS, ATTEMPT CIRCULATE BTMS UP @ 2-6 BPM OPEN LOOP TO CIRCULATE KWM OUT OF ANNULUS SICP:616 PSI, DECISION WAS MADE TO BULLHEAD 140 BBLs CUT BRINE DOWN BACKSIDE, CIRCULATE CSG CAPACITY TO ESTABLISH CHOKE POSITIONS AND FLOW RATE FOR CEMENT JOB @ 7 BBLs MIN.

03:45 PJSM., FINISH RIGGING UP RED IRON TO CEMENT CIRCULATING HEAD, SICP:526 PSI

04:00 TEST LINES TO 5500 PSI (GOOD TEST), PUMPED 40 BBLs OF GEL SPACER WITH RED DYE IN FIRST 20 BBLs, FOLLOWED BY 212 BBLs (490 SX) LEAD CEMENT @ 11.5#, 2.43 YLD, FOLLOWED BY 57 BBLs (255 SX) TAIL CEMENT @ 13.2#, 1.43 YLD, SHUT DOWN AND DROP PLUG, DISPLACE WITH 495 BBLs 1ST 20 BBLs FRESH WATER

Vis (s/qt): 31, Dens (lb/gal): 9.90, pH: 10.0

### 01/29/2022

Rig Name: H&P 462

Depth = 10,867.0 Progress = 0.0

06:00 FINISH PUMPING DISPLACEMENT ON CEMENT JOB; BUMPED PLUG ON SCHEDULE W/1,670 PSI; BUMPED UP TO 2,300 PSI AND HELD FOR 5 MINUTES; BLEED BACK 3 BBLs TO TRUCK, FLOATS ARE GOOD. PLUG DOWN @ 06:55 AM.

WELL SHUT IN ON CHOKE AT PLUG DOWN. ISICP = 220 PSI

NOTE: RED DYE MARKER BACK WITH 31 BLS OF DISPLACEMENT REMAINING TO BE PUMPED

07:00 TEST CASING TO 3,500 PSI FOR 30 MINUTES. GOOD TEST, NO LEAK OFF

07:45 WOC: EMPTY AND CLEAN PITS; SET IN AND RIG UP SOLIDS CONTROL EQUIPMENT; CHANGE OUT MUD PUMP LINERS, L/D 6.5" DC'S IN MOUSE HOLE, TRANSFER OBM F/FAC TANKS TO MUD PITS & DUST UP TO 12.9 PPG.

MONITOR SICP. AVG 32 PSI RISE PER HOUR, SICP:229 PSI AFTER BEING CLOSED IN FOR 18 HRS. OPEN CHOKES TO TRIP TANK WELL STATIC  
01:15BACK OFF LJ AND LD; MAKE UP PACK OFF TOOL ON DP INSTALL PACKOFF WITH 20K, TEST UPPER & LOWER SEALS T/5000 PSI HELD FOR 5 MINS.  
02:00PJSR R/U BATTLES TESTING PLUG. TEST UPPER & LOWER PIPE RAMS (GOOD TEST) 250/LOW 10K/HIGH 5 MIN.  
SIMOPS THIRD PARTY CLEANOUT & REPAIR POWER CHOKES,  
04:00TROUBLE SHOOT KNOCK & LEAK ON ON TESTERS PUMP  
05:00WAIT ON 2ND TEST TRUCK  
SIM OPS: FLUSH THROUGH CHOKE MANIFOLD , RECALIBRATE CHOKE GAUGES IN DRILLERS CABIN, BRINGING BHA SUBS, STABILIZERS, UBHO & BIT TO FLOOR & HANDLING SUBS  
Vis (s/qt): 100, Dens (lb/gal): 12.90, pH: 0.0

### **01/30/2022**

Rig Name: H&P 462  
Depth = 10,877.0 Progress = 10.0  
06:00WAITING ON 2ND TEST TRUCK TO ARRIVE  
08:15RU TEST TRUCK AND TEST 4" MANUAL AND HCR VALVES,(HCR DID NOT PASS HIGH TEST) 10,000 PSI HIGH AND 250 PSI LOW, 5 MINUTES EACH; TEST ANNULAR TO 3,500 PSI HIGH AND 250 PSI LOW, TEST MUD LINES FROM TOP DRIVE TO ALL 3 MUD PUMPS TO 7,500 PSI; TEST ALL FLOOR VALVES 250 PSI LOW AND 7,500 PSI HIGH; TEST CHOKE MANIFOLD TO 250 PSI LOW AND 10,000 PSI HIGH; ALL TESTS HELD FOR 5 MINUTES EACH  
12:45CLEAN FLUSH AND GREASE HCR VALVE WITH H&P BOP GROUP. RE-TEST AND DID NOT PASS HIGH TEST (LEAKING BY @ 5,950 PSI) NIPPLE DOWN HCR AND NIPPLE UP NEW HCR VALVE WITH RIG HANDS AND H&P BOP GROUP  
16:30TEST HCR, KILL LINE VALVES & BLIND RAMS @ 250/LOW 10K HIGH, PULL TEST PLUG  
18:15INSTALL WEAR BUSHING TROUBLE SHOOT WHY WOULD NOT SET, TRQ. SETTING TOOLT/X-O AND DP, SET WEAR BUSHING & RUN UP DOGS IN WELLHEAD  
19:45PJSR, P/U NON-MAG, UBHO, PONY SUB,STABILIZER,MOTOR & SCRIBE, INSTALL MWD TOOL, M/U BIT, P/U NON-MAG, STABILIZER & X/O  
21:45TIH F/BHA T/10,764', INSTALL DRILL N REAM @ 606', AGITATOR @ 2424' TEST BEFORE AGITATOR 1050 PSI, AFTER 1230 PSI,, INSTALL ROTATING HEAD  
02:00DISPLACE BRINE W/OBM 12.9 PPG,  
SIM OPS: CUT 107.5' OFF DRILLING LINE  
03:45DRILL SHOE TRACK F/C @ 10,764', SHOE @ 10,844'  
05:00ROT/DRILL F/10867' T/10877' (10' @ 40 FPH)  
05:15CIRCULATE BTMS UP TO CLEAN HOLE CLEAN FOR FIT TEST  
Vis (s/qt): 100, Dens (lb/gal): 12.90, pH: 0.0

### **01/31/2022**

Rig Name: H&P 462  
Depth = 11,492.0 Progress = 615.0  
06:00CIRCULATE AND CONDITION MUD FOR FIT, PUMP THRU CHOKE AND VERIFY NO AIR.  
07:15PERFORM F.I.T. TO 17 PPG EMW WITH 12.9 PPG OBM; TEST GOOD, LO LEAK OFF TO 17.02 PPG EMW.  
08:30DOWNLINKING TO MWD TOOLS  
08:45SLD DRLG F/10,877' - T/10,972' (95' @ 29 FPH) TFO = 15L  
12:00TROUBLESHOOT COMMUNICATION ISSUE WITH MWD; 2 TRANSDUCER CABLES FOUND BAD, ELECTRONIC BOX BETWEEN DIGIDRILL COMPUTER AND MAIN COMPUTER FOUND INTERFERING WITH COMMUNICATION ALSO; BOX WAS BYPASSED AND CABLES REPLACED; RE-LOG F/10,949' - T/10,972'

14:00ROT DRLG F/10,972' - T/10,990' (18' @ 72 FPH)  
 14:15SLD DRLG F/10,990' - T/11,018' (28' @ 23 FPH) TFO = HS  
 15:30ROT DRLG F/11,018' - T/11,038' (20' @ 80 FPH)  
 15:45SLD DRLG F/11,038' - T/11,067' (29' @ 17 FPH) TFO = HS  
 17:30ROT DRLG F/11,067' - T/11,085' (18' @ 72 FPH)  
 17:45SLD DRLG F/11,085' - T/11,114' (26' @ 34.7 FPH) TFO = HS  
 18:30ROT DRLG F/11,114' - T/11,124' (10' @ 40 FPH)  
 18:45SLD DRLG F/11,124' - T/11,153' (29' @ 29 FPH) TFO = 20 RT  
 19:45ROT DRLG F/11,153' - T/11,174' (21' @ 42 FPH)  
 20:15SLD DRLG F/11,174' - T/11,208' (34' @ 27.2 FPH) TFO = 20 RT  
 21:30ROT DRLG F/11,208' - T/11,221' (13' @ 52 FPH)  
 21:45SLD DRLG F/11,221' - T/11,256' (34' @ 22.7 FPH) TFO = HS  
 23:15ROT DRLG F/11,256' - T/11,276' (20' @ 80 FPH)  
 23:30SLD DRLG F/11,276' - T/11,303' (27' @ 27 FPH) TFO = 20 RT  
 00:30ROT DRLG F/11,303' - T/11,306' (3' @ 12 FPH)  
 00:45SLD DRLG F/11,306' - T/11,349' (43' @ 19.1 FPH) TFO = 10 RT  
 03:00ROT DRLG F/11,349' - T/11,369' (20' @ 40 FPH)  
 03:15SLD DRLG F/11,369' - T/11,383' (14' @ 18.7 FPH) TFO = 90 RT  
 04:00ROT DRLG F/11,383' - T/11,396' (13' @ 52 FPH)  
 04:15SLD DRLG F/11,396' - T/11,417' (21' @ 28 FPH) TFO = HS  
 05:00ROT DRLG F/11,417' - T/11,426' (9' @ 36 FPH) LAND CURVE @ 11,426' INC:87.76  
 AZM:165.43 TVD:11,013.56 (1.5' HIGH 15.4' LFT)  
 05:15ROT DRLG F/11,426' - T/11,492' (66' @ 88 FPH)  
 Vis (s/qt): 98, Dens (lb/gal): 12.90, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
10,859.0	10,773.08	38.85	163.57	-88.34	3.60	-36.87	-440.86
10,906.0	10,808.43	43.58	161.95	-57.39	10.32	-66.43	-431.67
10,954.0	10,841.34	49.82	159.40	-22.53	13.56	-99.36	-420.07
11,001.0	10,870.48	53.52	157.57	14.18	8.44	-133.65	-406.54
11,048.0	10,897.74	55.57	156.88	52.21	4.52	-168.95	-391.72
11,095.0	10,923.25	58.67	157.30	91.42	6.64	-205.30	-376.36
11,143.0	10,946.59	63.14	157.72	133.11	9.34	-244.05	-360.32
11,190.0	10,966.40	67.00	158.57	175.52	8.37	-283.60	-344.46
11,237.0	10,983.11	71.33	159.33	219.28	9.34	-324.58	-328.69
11,284.0	10,996.38	75.87	159.43	264.23	9.66	-366.77	-312.82
11,331.0	11,005.13	82.66	160.50	310.28	14.62	-410.13	-297.01
11,378.0	11,010.38	84.51	163.07	356.96	6.71	-454.49	-282.42

**02/01/2022**

Rig Name: H&P 462

Depth = 12,628.0 Progress = 1136.0

06:00ROT DRLG F/11,492' - T/11,539' (47' @ 94 FPH)  
 06:30SLD DRLG F/11,539' - T/11,569' (30' @ 40 FPH) TFO= 10R  
 07:15ROT DRLG F/11,569' - T/11,792' (223' @ 89 FPH)  
 09:45SLD DRLG F/11,792' - T/11,810' (18' @ 36 FPH) TFO= 70L  
 10:15ROT DRLG F/11,810' - T/11,888' (78' @ 104 FPH)  
 11:00SLD DRLG F/11,888' - T/11,920' (32' @ 43 FPH) TFO= 15R  
 11:45ROT DRLG F/11,920' - T/12,262' (342' @ 98 FPH)  
 15:15SLD DRLG F/12,262' - T/12,279' (17' @ 68 FPH) TFO= 140R  
 15:30ROT DRLG F/12,279' - T/12,344' (65' @ 130 FPH)  
 16:00SERVICE RIG; SPR'S

16:30ROT DRLG F/12,344' - T/12,356' (12' @ 48 FPH)  
 16:45SLD DRLG F/12,356' - T/12,374' (18' @ 24 FPH) TFO= 70R  
 17:30ROT DRLG F/12,374' - T/12,513' (139' @ 92.7 FPH)  
 19:00TROUBLE SHOOT MWD COMPUTER NOT COLLECTING GAMMA, FIXED SAME  
 19:15ROT DRLG F/12,513' - T/12,540' (27' @ 20.25 FPH)  
 20:00SLD DRLG F/12,540' - T/12,558' (18' @ 24 FPH) TFO= 180  
 20:45ROT DRLG F/12,558' - T/12,628' (70' @ 40 FPH)  
 22:30PERFORM CLEAN UP CYCLE WHILE DUSTING OBM MUD BACK UP TO 13.1 PPG, AND  
 BUILD SLUG MUD TO 15.2 PPG, CHECK FLOW WELL STATIC,  
 00:15TOOH FOR NEW BHA F/12,628' T/BHA/ TRIP SPEED @ 200 FPM, CHECK FLOW @  
 SHOE WELL STATIC, PUMP SLUG & PULL ROTATING HEAD WELL TAKING PROPER  
 DISPLACEMENT, L/D AGITATOR  
 05:15PJSM, L/D NON MAG, STAB, MWD TOOL & DRAIN MUD MOTOR  
 Vis (s/qt): 80, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
11,426.0	11,013.62	87.74	165.46	404.83	8.36	-500.58	-269.44
11,521.0	11,018.25	86.67	165.09	499.68	1.19	-592.35	-245.32
11,616.0	11,020.10	91.10	166.95	594.56	5.06	-684.49	-222.38
11,711.0	11,018.44	90.91	166.64	689.41	0.38	-776.96	-200.68
11,807.0	11,018.08	89.51	163.31	785.37	3.76	-869.66	-175.80
11,902.0	11,017.68	90.98	162.49	880.35	1.77	-960.46	-147.87
11,997.0	11,014.25	93.16	163.17	975.27	2.40	-1,051.16	-119.84
12,091.0	11,009.12	93.09	163.05	1,069.13	0.15	-1,140.97	-92.57
12,186.0	11,003.60	93.58	162.38	1,163.95	0.87	-1,231.53	-64.39
12,280.0	10,999.82	91.02	161.98	1,257.84	2.76	-1,320.94	-35.65
12,375.0	10,997.21	92.13	164.52	1,352.79	2.92	-1,411.86	-8.29
12,469.0	10,991.59	94.73	165.72	1,446.58	3.05	-1,502.54	15.81
12,564.0	10,986.92	90.90	164.42	1,541.42	4.26	-1,594.20	40.25

## 02/02/2022

Rig Name: H&P 462

Depth = 13,612.0 Progress = 984.0

06:00DRAIN MOTOR AND BREAK BIT; BIT GRADE: 2 INNER, 7 OUTER, WT, BT, 1/8" UNDER  
 GAUGE; LD MOTOR AND CLEAN RIG FLOOR. PU NEW BIT AND MOTOR AND MU,  
 SCRIBE MOTOR TO HIGH SIDE AND INSTAL MWD TOOLS; RUN IN HOLE.

08:00TIH F/126' - T/12,628'; INSTAL ROTATING HEAD; TEST MWD @ 11,161', 12,469' AND  
 12,564'

15:00ROT DRLG F/12,628' - T/12,640' (12' @ 48 FPH)  
 15:15SLD DRLG F/12,640' - T/12,655' (15' @ 60 FPH) TFO= 15R  
 15:30ROT DRLG F/12,655' - T/12,829' (174' @ 116) FPH  
 17:00SLD DRLG F/12,829' - T/12,842' (13' @ 26 FPH) TFO= 170R  
 17:30ROT DRLG F/12,842' - T/12,930' (88' @ 88 FPH)  
 18:30SLD DRLG F/12,930' - T/12,940' (10' @ 40 FPH) TFO= 180  
 18:45ROT DRLG F/12,940' - T/13,030' (90' @ 72 FPH)  
 20:00SLD DRLG F/13,030' - T/13,043' (13' @ 17.3 FPH) TFO= 30RT  
 20:45ROT DRLG F/13,043' - T/13,207' (164' @ 82 FPH)  
 22:45SLD DRLG F/13,207' - T/13,209' (2' @ 8 FPH) T/F 160L  
 23:00ROT DRLG F/13,209' - T/13,238' (29' @ 58 FPH)  
 23:30SLD DRLG F/13,238' - T/13,248' (10' @ 13.3 FPH) T/F 160L  
 00:15ROT DRLG F/13,248' - T/13,393' (145' @ 96.7 FPH)  
 01:45TROUBLE SHOOT MWD

02:15ROT DRLG F/13,393' - T/13,612' (219' @ 58.4 FPH)

Vis (s/qt): 75, Dens (lb/gal): 13.10, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
12,658.0	10,983.95	92.73	164.82	1,635.36	1.99	-1,684.79	65.17
12,753.0	10,979.75	92.33	164.35	1,730.25	0.65	-1,776.28	90.40
12,847.0	10,977.13	90.87	164.66	1,824.20	1.59	-1,866.82	115.50
12,942.0	10,977.33	88.89	163.48	1,919.20	2.43	-1,958.17	141.57
13,036.0	10,979.22	88.80	164.76	2,013.17	1.36	-2,048.56	167.28
13,131.0	10,978.92	91.56	165.47	2,108.13	3.00	-2,140.36	191.69
13,225.0	10,978.88	88.50	162.80	2,202.11	4.32	-2,230.76	217.38
13,320.0	10,979.20	91.11	163.52	2,297.10	2.85	-2,321.68	244.90
13,414.0	10,978.31	89.97	162.81	2,391.09	1.43	-2,411.65	272.12
13,509.0	10,977.39	91.14	161.37	2,486.04	1.95	-2,502.04	301.33

## 02/03/2022

Rig Name: H&P 462

Depth = 13,953.0 Progress = 341.0

06:00CLEAN UP CYCLES; CIRCULATE AND CONDITION HOLE FOR BIT TRIP

07:45FLOW CHECK, WELL IS STATIC

08:00TOH F/13,612' - T/SURFACE; DRAIN MOTOR AND BREAK BIT. BIT GRADE: 3 INNER, 8 OUTER, IN GAUGE

14:15LD MOTOR, UBHO, PONY NMDC. PU NEW PONY NMDC, UBHO, MOTOR AND BIT; MU TOOLS AND SCRIBE TO HIGH SIDE, INSTAL MWD, SHALLOW TEST (TEST GOOD) MU BIT.

16:00TIH F/ 126' - T/ 7,000'

19:45RIG SERVICE

20:15TIH F/ 7,000' TO 10,844'

22:15REMOVE TRIP NIPPLE / INSTALL ROT HEAD

22:45TIH F/ 10,844' TO 13,612'. RESHOOT 3 SURVEYS ON WAY IN FOR CORRECTIONS

01:30ROT DRL F/ 13,612' TO 13,685', 73' @ 73 FPH

02:30SLD DRL F/ 13,685' TO 13,693', 8' HS @ 16 FPH

03:00ROT DRL F/ 13,693' TO 13,869', 176' @ 100 FPH

04:45SLD DRL F/ 13,869' TO 13,881', 12' 70R @ 16 FPH

05:30ROT DRL F/ 13,881' TO 13,953', 72' @ 144 FPH

Vis (s/qt): 87, Dens (lb/gal): 13.10, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
13,603.0	10,977.11	89.21	162.11	2,579.98	2.20	-2,591.30	330.78
13,698.0	10,977.10	90.80	161.43	2,674.92	1.82	-2,681.53	360.50
13,792.0	10,976.05	90.48	160.90	2,768.82	0.66	-2,770.49	390.84

## 02/04/2022

Rig Name: H&P 462

Depth = 15,779.0 Progress = 1826.0

06:00ROT DRLG F/13,953' - T/13,963' (10' @ 40 FPH)

06:15SLD DRLG F/13,963' - T/13,993' (30' @ 40 FPH) TF0= 70R

07:00ROT DRLG F/13,993' - T/14,530' (537' @ 113 FPH)

11:45SLD DRLG F/14,530' - T/14,549' (19' @ 25 FPH) TF0= 90R

12:30ROT DRLG F/14,549' - T/14,718' (169' @ 113 FPH)

[BOP DRILL HELD WITH DAY CREW, ALL HANDS ON STATION IN 1 MINUTE, 13 SECONDS]

14:00SLD DRLG F/14,718' - T/14,733' (15' @ 20 FPH) TF0= 180

14:45ROT DRLG F/14,733' - T/14,802' (69' @ 138 FPH)  
 15:15SERVICE RIG, SPR'S  
 15:45ROT DRLG F/ 14,802' - T/ 15,103' (301' @ 109 FPH)  
 18:30SLD DRLG F/ 15,103' - T/ 15,112' (9' @ 12 FPH) TF0= 60L  
 19:15ROT DRLG F/ 15,112' - T/ 15,284' (172' @ 114 FPH)  
 20:45SLD DRLG F/ 15,284' - T/ 15,296' (12' @ 16 FPH) TF0= 70L  
 21:30ROT DRLG F/ 15,296' - T/ 15,420' (124' @ 124 FPH)  
 22:30SLD DRLG F/ 15,420' - T/ 15,435' (15' @ 15 FPH) TF0= HS  
 23:30ROT DRLG F/ 15,435' - T/ 15,560' (125' @ 125 FPH)  
 00:30SLD DRLG F/ 15,560' - T/ 15,582' (22' @ 14 FPH) TF0= HS  
 01:45ROT DRLG F/ 15,582' - T/ 15,612' (30' @ 120 FPH)  
 02:00SLD DRLG F/ 15,612' - T/ 15,622' (10' @ 13 FPH) TF0= HS  
 02:45ROT DRLG F/ 15,622' - T/ 15,668' (46' @ 92 FPH)  
 03:15SLD DRLG F/ 15,668' - T/ 15,674' (6' @ 12 FPH) TF0= HS  
 03:45ROT DRLG F/ 15,674' - T/ 15,747' (73' @ 146 FPH)  
 04:15SLD DRLG F/ 15,747' - T/ 15,779' (32' @ 18 FPH) TF0= HS  
 Vis (s/qt): 65, Dens (lb/gal): 13.15, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
13,886.0	10,974.40	91.53	159.91	2,862.65	1.54	-2,859.03	422.36
13,981.0	10,971.14	92.40	162.51	2,957.50	2.88	-2,948.90	452.94
14,075.0	10,966.79	92.90	163.43	3,051.39	1.11	-3,038.68	480.44
14,169.0	10,962.23	92.67	163.67	3,145.28	0.35	-3,128.73	507.03
14,264.0	10,957.97	92.47	163.46	3,240.18	0.31	-3,219.75	533.88
14,358.0	10,955.35	90.72	162.60	3,334.13	2.07	-3,309.62	561.31
14,453.0	10,952.69	92.49	162.39	3,429.07	1.88	-3,400.18	589.87
14,547.0	10,950.34	90.38	163.60	3,523.03	2.59	-3,490.04	617.35
14,641.0	10,946.55	94.24	165.03	3,616.93	4.38	-3,580.45	642.74
14,736.0	10,941.54	91.80	166.12	3,711.73	2.81	-3,672.31	666.37
14,830.0	10,940.50	89.47	164.50	3,805.68	3.02	-3,763.23	690.20
14,925.0	10,940.08	91.04	165.79	3,900.65	2.14	-3,855.05	714.55
15,019.0	10,938.95	90.33	166.11	3,994.57	0.83	-3,946.23	737.37
15,113.0	10,936.68	92.44	165.99	4,088.45	2.25	-4,037.42	760.03
15,207.0	10,933.11	91.91	166.22	4,182.30	0.61	-4,128.61	782.58
15,302.0	10,930.98	90.67	164.00	4,277.24	2.68	-4,220.38	806.99
15,396.0	10,931.81	88.31	163.33	4,371.23	2.61	-4,310.58	833.42
15,491.0	10,934.76	88.13	162.27	4,466.17	1.13	-4,401.29	861.50
15,585.0	10,934.99	91.60	162.32	4,560.13	3.69	-4,490.82	890.08
15,679.0	10,934.89	88.51	159.30	4,653.99	4.60	-4,579.58	920.97

**02/05/2022**

Rig Name: H&P 462

Depth = 16,692.0 Progress = 913.0

06:00SLD DRLG F/15,779' - T/15,786' (7' @ 28 FPH) TF= HS

06:15ROT DRLG F/15,786' - T/15,841' (55' @ 220 FPH)

06:30SERVICE RIG; SPR'S

07:00ROT DRLG F/15,841' - T/15,851' (10' @ 40 FPH)

07:15SLD DRLG F/15,851' - T/15,876' (25' @ 20 FPH) TF= 20R

08:30ROT DRLG F/15,876' - T/15,945' (69' @ 92 FPH)

09:15SLD DRLG F/15,945' - T/15,970' (25' @ 20 FPH) TF= 90R

10:30ROT DRLG F/15,970' - T/16,040' (70' @ 70 FPH)

11:30RECYCLE PUMPS; DOWNLINK TO TOOLS  
 12:15SLD DRLG F/16,040' - T/16,063' (23' @ 18.4 FPH) TF= 20R  
 13:30ROT DRLG F/16,063' - T/16,134' (71' @ 71 FPH)  
 14:30SLD DRLG F/16,134' - T/16,150' (16' @ 16 FPH) TF= 160R  
 15:30ROT DRLG F/ 16,150' - T/ 16,264' (114' @ 91 FPH)  
 16:45TROUBLE SHOOT MWD / RECYCLE  
 17:15ROT DRLG F/ 16,264' - T/ 16,316' (52' @ 104 FPH)  
 17:45TROUBLE SHOOT MWD / RECYCLE  
 18:00SLD DRLG F/ 16,316' - T/ 16,356' (40' @ 20 FPH) TF= 60R  
 20:00ROT DRLG F/ 16,356' - T/ 16,415' (59' @ 47 FPH)  
 21:15SLD DRLG F/ 16,415' - T/ 16,433' (18' @ 14 FPH) TF= 90R  
 22:30ROT DRLG F/ 16,433' - T/ 16,455' (22' @ 44 FPH)  
 23:00SLD DRLG F/ 16,455' - T/ 16,469' (14' @ 11 FPH) TF= 90R  
 00:15ROT DRLG F/ 16,469' - T/ 16,533' (64' @ 85 FPH)  
 01:00SLD DRLG F/ 16,533' - T/ 16,554' (21' @ 14 FPH) TF= 160R  
 02:30ROT DRLG F/ 16,554' - T/ 16,628' (74' @ 98 FPH)  
 03:15SLD DRLG F/ 16,628' - T/ 16,658' (30' @ 13 FPH) TF= 170L  
 05:30ROT DRLG F/ 16,658' - T/ 16,692' (34' @ 68 FPH)  
 Vis (s/qt): 75, Dens (lb/gal): 13.15, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
15,774.0	10,934.89	91.49	161.10	4,748.80	3.66	-4,668.95	953.15
15,868.0	10,930.80	93.50	160.69	4,842.59	2.18	-4,757.68	983.88
15,963.0	10,927.60	90.36	163.02	4,937.47	4.11	-4,847.89	1,013.44
16,057.0	10,921.96	96.53	163.00	5,031.25	6.56	-4,937.58	1,040.85
16,152.0	10,915.37	91.42	162.35	5,125.97	5.42	-5,028.02	1,069.06
16,246.0	10,913.05	91.41	157.67	5,219.72	4.98	-5,116.30	1,101.18
16,341.0	10,908.19	94.46	159.05	5,314.17	3.52	-5,204.48	1,136.16
16,436.0	10,898.97	96.68	162.01	5,408.56	3.88	-5,293.61	1,167.68
16,530.0	10,886.41	98.67	165.08	5,501.70	3.87	-5,382.93	1,194.06

## 02/06/2022

Rig Name: H&P 462

Depth = 17,105.0 Progress = 413.0

06:00ROT DRLG F/16,692' - T/16,702' (10' @ 40 FPH)  
 06:15SLD DRLG F/16,702' - T/16,717' (15' @ 15 FPH) TFO- 160L  
 07:15ROT DRLG F/16,717' - T/16,733' (16' @ 64 FPH)  
 07:30SLD DRLG F/16,733' - T/16,747' (14' @ 14 FPH) TFO- 160L  
 08:30ROT DRLG F/16,747' - T/16,764' (17' @ 34 FPH)  
 09:00SLD DRLG F/16,764' - T/16,773' (9' @ 12 FPH) TFO- 180  
 09:45ROT DRLG F/16,773' - T/16,838' (65' @ 65 FPH)  
 10:45SLD DRLG F/16,838' - T/16,853' (15' @ 10 FPH) TFO- HS  
 12:15ROT DRLG F/16,853' - T/16,984' (131' @ 65.5 FPH)  
 14:15SLD DRLG F/16,984' - T/17,010' (26' @ 20.8 FPH) TFO- 20L  
 15:30ROT DRLG F/17,010' - T/17,068' (58' @ 58 FPH)  
 16:30SERVICE RIG, SPR'S  
 17:00ROT DRLG F/ 17,068' - T/ 17,078' (10' @ 40 FPH)  
 17:15SLD DRLG F/ 17,078' - T/ 17,087' (9' @ 12 FPH) TFO- 180  
 18:00ROT DRLG F/ 17,087' - T/ 17,105' (18' @ 36 FPH)  
 18:30CIRCULATE 4 B/U, MONITOR SHAKERS, FLOW CHECK (NO FLOW)  
 22:30POOH WET F/ 16,878' TO 16,408', FLOW CHECK, PUMP SLUG  
 23:00POOH F/ 16,408' TO 4,850'

03:45PULL ROT HEAD / INSTALL TRIP NIPPLE

04:15POOH F/ 4,850' TO BHA

Vis (s/qt): 79, Dens (lb/gal): 13.25, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
16,625.0	10,870.87	100.15	168.09	5,595.29	3.49	-5,474.08	1,215.81
16,719.0	10,858.48	95.01	166.85	5,688.23	5.62	-5,565.01	1,236.02
16,813.0	10,856.13	87.86	165.78	5,782.05	7.69	-5,656.25	1,258.24
16,907.0	10,858.95	88.70	165.33	5,875.95	1.01	-5,747.24	1,281.68
17,001.0	10,858.77	91.51	164.66	5,969.92	3.07	-5,838.02	1,306.01

## 02/07/2022

Rig Name: H&P 462

Depth = 17,740.0 Progress = 635.0

06:00DRAIN MOTOR AND BREAK BIT; BIT GRADE: 3 INNER, 7 OUTER, FULL GAUGE, BT, WT; LD MOTOR AND PU NEW MOTOR; MU NEW BIT, SCRIBE TO HIGH SIDE, INSTALL MWD AND SHALLOW TEST; TOOL REVERTED TO DEFAULT PROGRAM; PULL MWD AND RE-PROGRAM, INSTAL AND SHALLOW TEST, TEST GOOD

08:15TIH F/127' - T/10,827'

12:45CUT AND SLIP DRLG LINE

14:00TIH T/11,162' FOR CHECK SHOT

15:00RIG SERVICE

15:30TIH T/16,150'

16:45RE-LOG GAMMA ACROSS BENTONITE ZONE F/ 16,150' TO 16,425'

19:00TIH F/ 16,425' TO 17,065'

19:15RELOG GAMMA F/ 17,065' TO 17,105', RESHOOT SURVEYS FOR CORRECTIONS

19:45ROT DRLG F/ 17,105' - T/ 17,159' (54' @ 72 FPH)

20:30TROUBLE SHOOT MWD AND REPAIR: SURFACE GEAR

21:00ROT DRLG F/ 17,159' - T/ 17,264' (105' @ 105 FPH)

22:00SLD DRLG F/ 17,264' - T/ 17,274' (10' @ 13 FPH) TFO: 170L

22:45ROT DRLG F/ 17,274' - T/ 17,358' (84' @ 84 FPH)

23:45SLD DRLG F/ 17,358' - T/ 17,368' (10' @ 20 FPH) TFO: 30R

00:15ROT DRLG F/ 17,368' - T/ 17,641' (273' @ 84 FPH)

03:30SLD DRLG F/ 17,641' - T/ 17,656' (15' @ 15 FPH) TFO: 30R

04:30ROT DRLG F/ 17,656' - T/ 17,730' (74' @ 98 FPH)

05:15SLD DRLG F/ 17,730' - T/ 17,742' (12' @ 16 FPH) TFO: 80R

Vis (s/qt): 91, Dens (lb/gal): 13.25, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
17,092.0	10,854.79	93.51	164.62	6,060.81	2.20	-5,925.68	1,330.09
17,187.0	10,848.38	94.23	164.71	6,155.58	0.76	-6,017.09	1,355.16
17,281.0	10,843.88	91.25	163.45	6,249.46	3.44	-6,107.37	1,380.91
17,376.0	10,841.26	91.92	164.08	6,344.42	0.97	-6,198.55	1,407.46
17,470.0	10,838.13	91.89	163.65	6,438.37	0.46	-6,288.79	1,433.57
17,564.0	10,836.13	90.55	162.34	6,532.34	1.99	-6,378.66	1,461.05
17,658.0	10,833.53	92.62	162.68	6,626.28	2.23	-6,468.27	1,489.29

## 02/08/2022

Rig Name: H&P 462

Depth = 18,456.0 Progress = 714.0

06:00ROT DRLG F/17,742' - T/17,798' (6' @ 75 FPH)

06:45SLD DRLG F/17,798' - T/17,820' (22' @ 18 FPH) TFO= 160L

08:00ROT DRLG F/17,820' - T/17,830' (10' @ 40 FPH)

08:15SLD DRLG F/17,830' - T/17,845' (15' @ 20 FPH) TFO= 180  
 09:00ROT DRLG F/17,845' - T/18,114' (269' @ 78 FPH)  
 12:30SLD DRLG F/18,114' - T/18,141' (27' @ 27 FPH) TFO= 170L  
 13:30ROT DRLG F/18,141' - T/18,208' (67' @ 67 FPH)  
 14:30SLD DRLG F/18,208' - T/18,233' (25' @ 25 FPH) TFO= 160L  
 15:30ROT DRLG F/18,233' - T/18,285' (52' @ 42 FPH)  
 16:45SERVICE RIG; SPR'S; RE-PIN POP OFFS  
 17:30ROT DRLG F/ 18,285' - T/ 18,456' (171' @ 57 FPH)  
 20:30CIRCULATE 4 B/U, RACK BACK 1 STAND AT COMPLETION OF EACH B/U, MONITOR SHAKERS  
 00:30FLOW CHECK (NO FLOW), POOH WET F/ 18,165' TO 17,034', PUMP SLUG  
 01:30POOH F/ 17,034' TO 4,000'  
 Vis (s/qt): 70, Dens (lb/gal): 13.10, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
17,753.0	10,824.97	97.72	166.36	6,720.83	6.61	-6,559.41	1,514.54
17,848.0	10,815.91	93.23	165.90	6,815.29	4.75	-6,651.19	1,537.21
17,942.0	10,811.88	91.68	165.30	6,909.15	1.77	-6,742.15	1,560.56
18,037.0	10,807.71	93.35	165.66	7,004.01	1.80	-6,834.02	1,584.36
18,131.0	10,802.74	92.71	165.35	7,097.83	0.76	-6,924.90	1,607.85
18,225.0	10,800.12	90.49	165.36	7,191.75	2.36	-7,015.81	1,631.61
18,320.0	10,799.94	89.73	164.04	7,286.73	1.60	-7,107.44	1,656.68

## 02/09/2022

Rig Name: H&P 462

Depth = 19,143.0 Progress = 687.0

06:00TOH F/4,500' - T/126'

08:00DRAIN MOTOR AND BREAK BIT; LD MOTOR AND PU NEW MOTOR AND BIT; SCRIBE, INSTALL MWD AND SHALLOW TEST, GOOD TEST  
 BIT GRADE: 3 INNER, 7 OUTER, BT, CT, FULL GAUGE

09:15TIH F/126' - T/18,292'; NO ISSUES

17:00SAFETY WASH & REAM F/18,292' - T/18,456'

17:15ROT DRL F/ 18,456' - T/ 18,522' (66' @ 88 FPH)

18:00SLD DRL F/ 18,522' - T/ 18,551' (29' @ 16 FPH) TFO= 180

19:45ROT DRL F/ 18,551' - T/ 18,680' (129' @ 103 FPH)

21:00SLD DRL F/ 18,680' - T/ 18,705' (25' @ 12 FPH) TFO= 180

23:00ROT DRL F/ 18,705' - T/ 18,776' (71' @ 142 FPH)

23:30SLD DRL F/ 18,776' - T/ 18,796' (20' @ 13 FPH) TFO= 180

01:00ROT DRL F/ 18,796' - T/ 19,001' (205' @ 102 FPH)

03:00SLD DRL F/ 19,001' - T/ 19,026' (25' @ 16 FPH) TFO= 180

04:30ROT DRL F/ 19,026' - T/ 19,143' (117' @ 78 FPH)

Vis (s/qt): 88, Dens (lb/gal): 13.40, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
18,414.0	10,799.90	90.32	163.09	7,380.73	1.19	-7,197.60	1,683.27
18,508.0	10,795.79	94.69	162.67	7,474.61	4.67	-7,287.32	1,710.91
18,603.0	10,788.95	93.57	162.69	7,569.34	1.18	-7,377.78	1,739.12
18,698.0	10,784.48	91.82	162.85	7,664.22	1.85	-7,468.41	1,767.22
18,792.0	10,781.72	91.54	164.74	7,758.18	2.03	-7,558.63	1,793.44
18,887.0	10,778.69	92.12	163.37	7,853.12	1.57	-7,649.93	1,819.53
18,982.0	10,774.86	92.50	163.31	7,948.05	0.40	-7,740.87	1,846.74

## 02/10/2022

Rig Name: H&P 462

Depth = 20,149.0 Progress = 1006.0

06:00ROT DRLG F/19,143' - T/19,155' (12' @ 24 FPH)

06:30SLD DRLG F/19,155' - T/19,171' (16' @ 16 FPH) TFO= 170R

07:30ROT DRLG F/19,171' - T/19,343' (172' @ 58 FPH)

10:30SLD DRLG F/19,343' - T/19,356' (13' @ 9 FPH) TFO= 180

12:00ROT DRLG F/19,356' - T/19,360' (4' @ 16 FPH)

12:15SLD DRLG F/19,360' - T/19,362' (2' @ 8 FPH) TFO= 180

12:30ROT DRLG F/19,362' - T/19,436' (74' @ 59.2 FPH)

13:45SLD DRLG F/19,436' - T/19,447' (11' @ 11 FPH) TFO= 160R

14:45ROT DRLG F/19,447' - T/19,520' (73' @ 97.3 FPH)

15:30RIG SERVICE, SPR'S

16:00ROT DRL F/ 19,520' TO 19,525' (5' @ 20 FPH)

16:15SLD DRL F/ 19,525' TO 19,550' (25' @ 8 FPH) TFO= 180

19:15ROT DRL F/ 19,550' TO 19,721' (171' @ 68 FPH)

21:45SLD DRL F/ 19,721' TO 19,746' (25' @ 14 FPH) TFO= 145R

23:30ROT DRL F/ 19,746' TO 19,813' (67' @ 67 FPH)

00:30SLD DRL F/ 19,813' TO 19,835' (22' @ 14 FPH) TFO= 145R

02:00ROT DRL F/ 19,835' TO 20,149' (314' @ 78 FPH)

Vis (s/qt): 64, Dens (lb/gal): 13.10, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
19,076.0	10,771.75	91.30	163.15	8,041.99	1.29	-7,830.82	1,873.85
19,170.0	10,770.74	89.93	163.39	8,135.98	1.48	-7,920.83	1,900.90
19,265.0	10,768.92	92.26	164.22	8,230.95	2.60	-8,012.04	1,927.39
19,359.0	10,766.07	91.22	163.37	8,324.91	1.43	-8,102.26	1,953.61
19,453.0	10,763.10	92.40	163.81	8,418.86	1.34	-8,192.39	1,980.16
19,548.0	10,760.44	90.81	163.04	8,513.82	1.86	-8,283.40	2,007.25
19,642.0	10,758.42	91.65	162.88	8,607.79	0.91	-8,373.25	2,034.79
19,736.0	10,755.90	91.42	162.75	8,701.74	0.28	-8,463.02	2,062.55
19,830.0	10,755.71	88.81	163.02	8,795.72	2.79	-8,552.85	2,090.21
19,925.0	10,755.98	90.87	163.09	8,890.71	2.17	-8,643.72	2,117.90
20,019.0	10,754.26	91.22	162.50	8,984.68	0.73	-8,733.50	2,145.70
20,114.0	10,751.93	91.60	162.28	9,079.63	0.46	-8,824.02	2,174.43
20,207.0	10,749.74	91.09	162.79	9,172.59	0.78	-8,912.71	2,202.33
20,303.0	10,747.31	91.82	162.35	9,268.53	0.89	-9,004.27	2,231.08
20,397.0	10,744.20	91.96	163.99	9,362.48	1.75	-9,094.19	2,258.28
20,492.0	10,741.02	91.88	165.50	9,457.40	1.59	-9,185.79	2,283.26
20,586.0	10,739.65	89.79	165.50	9,551.34	2.22	-9,276.78	2,306.79
20,680.0	10,738.82	91.23	165.58	9,645.29	1.53	-9,367.80	2,330.26

## 02/11/2022

Rig Name: H&P 462

Depth = 21,220.0 Progress = 1071.0

06:00ROT DRL F/ 20,149' TO 20,191', 42' @ 84 FPH

06:30SLD DRL F/ 20,191' TO 20,216', 25' 180 @ 8 FPH

09:30ROT DRL F/ 20,216' TO 20,380', 164' @ 82 FPH

11:30SLD DRL F/ 20,380' TO 20,402', 22' 140R @ 11 FPH

13:30ROT DRL F/ 20,402' TO 20,474', 72' @ 72 FPH

14:30SLD DRL F/ 20,474' TO 20,499', 25' 160R @ 11 FPH

16:45ROT DRL F/ 20,499' TO 20,559', 60' @ 120 FPH

17:15RIG SERVICE  
 17:45TROUBLESHOOT MWD AND REPAIR  
 18:00SLD DRL F/ 20,559' TO 20,584', 25' 180 @ 10 FPH  
 20:30ROT DRL F/ 20,584' TO 20,757', 173' @ 115 FPH  
 22:00SLD DRL F/ 20,757' TO 20,782', 25' 180 @ 12 FPH  
 00:00ROT DRL F/ 20,782' TO 21,220', 438' @ 76 FPH  
 05:45CIRCULATE, PERFORM CLEAN UP CYCLES  
 Vis (s/qt): 68, Dens (lb/gal): 13.15, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
20,775.0	10,737.46	90.41	166.01	9,740.21	0.97	-9,459.88	2,353.57
20,869.0	10,740.43	85.96	163.74	9,834.12	5.31	-9,550.55	2,378.08
20,964.0	10,743.87	89.89	164.70	9,929.03	4.26	-9,641.89	2,403.89
21,058.0	10,745.27	88.40	162.70	10,023.01	2.65	-9,732.10	2,430.26
21,153.0	10,750.37	85.45	161.54	10,117.83	3.34	-9,822.37	2,459.38
21,220.0	10,755.69	85.45	161.54	10,184.57	0.00	-9,885.72	2,480.53

## 02/12/2022

Rig Name: H&P 462  
 Depth = 21,220.0 Progress = 0.0  
 06:00CIRCULATE, PERFORM CLEAN UP CYCLES, RACKING BACK STD EVERY BTTM UP  
 07:00CHANGE OUT IBOP ACTUATOR  
 07:30CONT' CIRCULATE, PERFORM CLEAN UP CYCLES, CIRC 7 BOTTOMS UP RACKING BACK  
 STD EVERY BTTM UP TO 20,563' MD  
 15:15FLOW CHECK WELL (STATIC)  
 15:30TOH WET ON ELEVATORS F/ 20,563' TO 18,400'  
 TIGHT SPOTS AT 19,574' & 19,255'  
 17:00TIH ON ELEVATORS F/ 18,400' TO 19,170'  
 17:15REAM THROUGH TIGHT SPOTS F/ 19,170' TO 19,560'  
 17:45TIH ON ELEVATORS F/ 19,560' TO 21,220'  
 18:30CBU X 2, MONITOR SHAKERS (HOLE CLEAN)  
 21:30POOH WET F/ 21,220 TO 19,000', PUMP SLUG, TRIP AS PER SWAB SCHEDULE, STRAP  
 OUT OF HOLE  
 23:00POOH F/ 19,000 TO 3,100', TRIP AS PER SWAB SCHEDULE, STRAP OUT OF HOLE  
 05:30PULL ROTATING HEAD / INSTALL TRIP NIPPLE  
 Vis (s/qt): 69, Dens (lb/gal): 13.20, pH: 0.0

## 02/13/2022

Rig Name: H&P 462  
 Depth = 21,220.0 Progress = 0.0  
 06:00TOOH F/ 3,100' T/ BHA;  
 TRIP AS PER SWAB SCHEDULE, STRAP OUT OF HOLE (NO CORRECTION ON SLM)  
 07:15PJSM- LD DIRECTIONAL BHA #10  
 08:30PULL WEAR BUSHING;  
 CLEAN & CLEAR RIG FLOOR OF VENDORS TOOLS  
 09:00PJSM- RU BUTCHS CASING EQUIPMENT  
 10:45PJSM- MU SHOE TRACK & PUMP THROUGH FLOATS, CONSISTS OF FLOAT SHOE, 1 X  
 19.63' MARKER JOINT, FLOAT COLLAR, 1 FULL CASING JOINT, TOE SLEEVE,  
 FOLLOWED BY 265 JOINTS OF 5.5", 23#, P110CY TLW SF CSG, MADE UP ARSENAL  
 FLOATATION COLLAR, RAN 107 JTS OF 5.5" 23# P110CY TLW SF CSG, PLACING MKR  
 JTS @ 18,015', 14,802', 11,551', 10,406', 5,015'; FLOATATION COLLAR @ 10,403';  
 FS @ 21,204', FC @ 21,180, TOE SLEEVE @ 21,137'; CASING RUN SPEEDS PER  
 SURGE MODEL

Vis (s/qt): 74, Dens (lb/gal): 13.40, pH: 0.0

## **02/14/2022**

Rig Name: H&P 462

Depth = 21,220.0 Progress = 0.0

06:00PJSM- MU SHOE TRACK & PUMP THROUGH FLOATS, CONSISTS OF FLOAT SHOE, 1 X 19.63' MARKER JOINT, FLOAT COLLAR, 1 FULL CASING JOINT, TOE SLEEVE, FOLLOWED BY 262 JOINTS OF 5.5", 23#, P110CY TLW SF CSG, MADE UP ARSENAL FLOATION COLLAR, RAN 256 JTS OF 5.5" 23# P110CY TLW SF CSG, PLACING MKR JTS @ 18,015', 14,802', 11,551', 10,406', 5,015'; FLOATION COLLAR @ 10,403'; FS @ 21,204', FC @ 21,180, TOE SLEEVE @ 21,137'; LANDED IN WELLHEAD ON MANDREL W/ 158; BLOCK WT = 45K, TOTAL LANDED IN WELLHEAD = 113K; TOTAL PIPE IN HOLE 21,208'; CASING RUN SPEEDS PER SURGE MODEL

13:45RIG DOWN CASING EQUIPMENT & RIG UP CEMENT HEAD

14:30BURST LOCK SUB @ 978 PSI, FILL EMPTY PIPE , CIRCULATE 1.5 CASING CAPACITY @ STAGING PUMP RATE UP TO 4 BPM 2010 PSI.

HOLD PJSM FOR CEMENTING

18:45MU HALLIBURTON IRON TO CEMENT HEAD

19:00TEST LINES T/8000 PSI.

PUMPED 50 BBL SPACER @ 13.5 PPG.

PUMPED LEAD CEMENT: 122 BBLS 450 SACKS @ 13.5 PPG/1.527 YLD/7.8 GAL-SK.

PUMPED TAIL CEMENT: 189 BBLS 830 SACKS @ 14.5 PPG/1.279 YLD/5.96 GAL-SK.

DROP PLUG, DISPLACE WITH 20 BBLS FW/MMCR 429 BBLS 10 PPG BRINE/TOTAL DISPLACEMENT 449 BBLS, BUMPED PLUG.

FINAL LIFT 3,850 PSI / LANDED AT 4,850 PSI @ 23:15 HRS, 02/13/2022.

CHECK FLOATS, HELD,5.5 BBLS BACK.

0 BBLS SPACER BACK TO SURFACE.

FULL RETURNS UNTIL FINAL 130 BBLS OF DISPLACEMENT, FLOW REDUCED TO 40% RETURNS. APPROX. LOSS APPROX 52 BBLS

22:45RIG DOWN HALLIBURTON CEMENT EQUIPMENT

23:15WOC: WELL FLOWING UPON COMPLETION OF CEMENT JOB (24 BBL/HR), SHUT IN

SIMOPS: SLIP/CUT DRILL LINE, R/D NON ESSENTIAL ITEMS IN PREPARATION FOR RIG SKID

Vis (s/qt): 74, Dens (lb/gal): 13.40, pH: 0.0

## **02/15/2022**

Rig Name: H&P 462

Depth = 21,220.0 Progress = 0.0

06:00WOC: SICP STABILIZED AT 1400 PSI AT 10:30 HRS

SIMOPS: PERFORM MAINTENANCE ON TDS IBOP ACTUATOR & HANDLER ROTATE LOCK, READY RIG FOR SKID, INSTALL FLOWLINE EXTENSION, MU DUMP LINE TO RESERVE PIT FOR DISPLACEMENT, CHANGE OUT SHAKER SCREENS, HOUSE KEEPING

23:30FINAL SICP 1,349 PSI, BLEED OFF PRESSURE TO 0 PSI (1.5 BBLS), MONITOR FLOW (NO FLOW), SHUT IN TO VERIFY PRESSURE 0 PSI

00:00LAY DOWN LANDING JOINT, DRAIN STACK, INSTALL AND SECURE PACKOFF

00:45NIPPLE DOWN B.O.P: BLOW DOWN LINES, BREAK CHOKE LINE / FLOW LINE / VIBRATOR HOSE, R/D RELATED EQUIP

02:00TEST PACKOFF 5K (GOOD TEST), INSTALL NIGHT CAP

02:30NOOP