

FORGE ENERGY OPERATING, LLC.
UL TILDEN 16-31-32 WA4 4H
API Number: 42-475-38479

10/28/2022

Rig Name:

Depth = 0.0 Progress = 0.0

12/03/2022

Rig Name: H&P 462

Depth = 0.0 Progress = 0.0

06:00 FINISH RIG OPERATIONS AND RIGGING DOWN ON VERANCIA PAD.

12:00 MOVE PART OF THE BACK YARD, PUMPS, GENERATORS, FRAC TANKS, MAN CAMP, AND OFFICES FROM VERANICA PAD TO UL TILDEN PAD. PERFORMING DRILLPIPE INSPECTION ON THE UL TILDEN PAD. FINISH CLEANING THE PITS ON VERANCIA PAD, LOWER THE DERRICK, BEGIN PERFORMING RIG WASH WHILE CONTINUING TO PREPARE EQUIPMENT TO BE MOVED FROM VERANCIA PAD TO UL TILDEN PAD SATURDAY MORNING.

00:00 PREPARE ALL OF THE EQUIPMENT ON THE VERANCIA PAD FOR TRANSPORTATION TO THE UL TILDEN WELL, RIG WASH, MISC. CLEAN UP LOCATION, SPLIT THE DERRICK, LOWER THE DOGHOUSE, REMOVE THE GAS BUSTER. PREPARING UL TILDEN PAD TO ACCEPT THE RIG TODAY, ALSO SETTING UP PIPE RACKS FOR THE UPCOMING DELIVERY OF 10-3/4" SURFACE CASING.

12/04/2022

Rig Name: H&P 462

Depth = 0.0 Progress = 0.0

06:00 FINISH WASHING RIG, RIG DOWN SHAKERS, LOAD OUT SETTLING TANKS, MCC, TRIP TANKS, DAY TANK, CABLE TRAY, FLOW LINE SKID, DOG HOUSE, ODS AND DS SUBS, CENTER STEEL, NEW LOCATION: SET MUD PUMPS 1,2,3, MCC, DAY TANK, STARTER PIECE, SKID RAILS, DRAW WORKS, ODS & DS SUBS, CENTER STEEL, PLUG IN GENS,VFD HOUSE.

18:00 RAISE THE DOGHOUSE AND OTHER SUBS. ORGANIZE AROUND THE PAD, BEGIN SPOTTING IN THE SOLIDS CONTROL, PREPARING TO RAISE THE DERRICK. STRETCH OUT THE FLOW LINE.

12/05/2022

Rig Name: H&P 462

Depth = 0.0 Progress = 0.0

06:00 DRESS DERRICK TO RAISE, PERFORM LOAD PATH INSPECTION ON: TOP DRIVE LOAD COLLAR, SLIPS, DOG COLLAR, RERUN TWO CABLES ON DRAG CHAIN, FIX ALL CAMERA ON DERRICK, SET V-DOOR, SET PDS IN PLACE, PIN BLOCKS TO TOP DRIVE, MORE SKID RAILS & FLOW LINE, PIN MRC, DERRICK, RAISE DERRICK TO FLOOR, FINISH MOVING MISC FROM OLD LOCATION TO NEW LOCATION.

18:00 INSTALL SKID CYLINDERS AND HOSES TO CONTROL MANIFOLD, TIE UP FOR SKIDDING, HOOKED UP STANDPIPE OUT TO 4TH WELL, FINISH PLUGGING IN ALL WIRES FROM DOGHOUSE TO DERRICK, CONFIRM GROUNDING WITH H&P ELECTRICIANS AND POWER UP RIG, MAKE UP VENT LINE AND RETURN LINE FROM GAS BUSTER, RIG UP FLOOR HOIST AND BOOM POLES, TROUBLESHOOT TRACTION MOTOR ON DRAW WORKS.

12/06/2022

Rig Name: H&P 462

Depth = 0.0 Progress = 0.0

06:00 PREP RIG FOR SKIDDING, CLEAN SKID RAILS, HOOK UP HYDRAULIC HOSE TO SPOOL, SECURE DRILL LINE IN SUBS, SKID F/ 12H T/ 4H, RIG UP MUD LINE AND HAND RAILS, LAYOUT LINEBACKERS, SPOOL UP DRAWWORKS, UNDOCK TOP DRIVE, INSTALL UPPER AND LOWER IBOP, CHANGE OUT THE SAVER SUB, UTILIZE WELDER TAKE OUT BOLTS ON GRABBER BOX AND ACTUATORS. NIPPLE UP DIVERTER.

18:00 INSTALL GRABBER DIES FOR 4.5" PIPE, INSTALL THE GRABBER DOOR, STABBING GUIDES AND TORQUE RINGS AND WIRE TIE SAME. INSTALL BALES AND LINK TILT ARMS, WIRE TRAY BUFFER ZONE, PDS BUFFER ZONE, INSTALL NEW ST-80 DIES TOP AND BOTTOM, INSTALL IBOP ACTUATORS AND FALL SAFE TARP, FILL EYE WASH STATIONS, RUN DRAWWORKS TOP DRIVE AND MUD PUMP'S FOR ELECTRICIANS. FORGE ACCEPTS H&P RIG 462 @ 01:45 AM ON 12/06/2022

01:45 INSTALL RISER SPOOL AND TORQUE, INSTALL FLOWLINE X-OVER FOR DRESSER SLEEVE & INSTALL DRESSER SLEEVE, HOOK UP HYDRAULIC LINES TO THE DIVERTER.

12/07/2022

Rig Name: H&P 462

Depth = 475.0 Progress = 329.0

06:00 RIG UP FILL UP LINE, MUD BUCKET LINE, BLEEDOFF LINE TO FLOW LINE,

INSTALLED TURN BUCKLES, JET PUMP, BRINE AND FRESH WATER FLOATER PUMPS, PRESPUD INSPECTION, FILL MUD PITS, INSTALL SHAKER SCREENS, PUT CAMP ON RIG POWER, HOOK UP DEVERTER LINE FROM SUB TO RESERVE PIT, WORK ON PREMIX PIT, BUILD 80 BBLS SWEEP MUD

15:00 MAKE UP 6.5" DC'S AND RACK BACK IN DERRICK
 17:00 BRING UP THREE STABILIZERS, TWO LIFT SUBS, X/O AND UBHO.
 18:00 SAFETY MEETING WITH CREW COMING ON TOUR FOR MAKING UP BHA.
 18:15 PICK UP 1.5 DEGREE BEND MOTOR, 13.5" ULTERRA CF616 BIT, STAB, UBHO, NON-MAG, STAB, NON-MAG, SHOCK SUB, X/O.
 21:30 MAKE UP STAND OF DRILL COLLARS AND X/O, TAG AT 146'.
 22:00 TEST DIVERTER, SWITCH OUT LINES ON THE HCR.
 22:30 ROT DRILL F/146' T/ 161' 15 @ 30 FPH, OBSERVED SWIVEL PACKING LEAKING, PICKED UP PUT STAND IN MOUSEHOLE AND CHANGED OUT SWIVEL PACKING.
 23:00 RIG SERVICE, GREASE BONNET SEAL, SWIVEL PACKING AND TOP OFF HYDRAULIC RESERVOIR.
 23:30 ROT DRILL F/161' T/ 475' 314' @ 157 FPH
 01:30 WHILE DRILLING AHEAD AT 475' OBSERVED DRILL COLLAR STALL OUT DUE TO 12K TQ. ATTEMPT TO PICK UP THE BHA AND BHA/PIPE IS STUCK. ATTEMPT TO FREE WHILE HAVING MANAGEMENT CONVERSATIONS FOR POTENTIAL 3RD PARTY OPTIONS. HAVE CONFERENCE CALL WITH MANAGEMENT AND DECISION MADE TO CONTINUE TO ATTEMPT TO FREE PIPE WHILE WAITING ON WIRELINE AND FISHING EQUIPMENT TO FREE POINT AND WASH OVER.

Vis (s/qt): 28, Dens (lb/gal): 8.60, pH: 7.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
164.0	164.00	0.35	0.54	-0.48	0.21	0.50	0.00
251.0	251.00	0.57	33.76	-1.01	0.39	1.13	0.25
338.0	337.99	0.79	13.72	-1.81	0.37	2.07	0.63

12/08/2022

Rig Name: H&P 462

Depth = 475.0 Progress = 0.0

06:00 WORKING STUCK PIPE, PUMP 80 BBLS 80 VIS PILL WHILL WORKING STUCK PIPE F/85K UP TO 250K WITH 1/2 ROUND TORQUE IN PIPE,
 08:30 RIG SERVICE, TROUBLESHOOT HOOKLOAD SENSORS.
 09:00 WORK STUCK PIPE WHILE 80 BBLS 80 VIS PILL THEN PUMP 80 BBLS PIPE FREE WITH DETERGENT MIXED PUMPED AT 950 GPM AND LET IT SET FOR 1 HOUR WITH 250K AND 1/2 RD TORQUE, MIXING 400 BBLS 80 VIS MUD AND PUMP AT 300GPM STAGE UP TO 900 GPM WHILE MONITORING PRESSURES
 14:00 PJSM, RIG UP WIRE LINE TRUCK, RUN IN HOLE TO RETRIEVE MWD TOOL
 15:45 HANG WIRE LINE SHEAVE IN DERRICK RUN IN WITH FREE POINT FIND STUCK POINT, PIPE STUCK AT 321', PULL OUT OF HOLE LAY DOWN FREE POINT, MAKE UP CHARGES TO BACK OUT OF DC'S
 18:00 RUN WIRELINE AND FREE POINT PIPE, BUILD UP 21K NEGATIVE TORQUE @ 2K AT A TIME, WHEN REACHED -21K TQ, BLAST PIPE FREE
 19:15 RIG DOWN WIRELINE EQUIPMENT
 19:45 POOH W/ 3 STANDS DRILL COLLARS AND LAYDOWN A DOUBLE OF DRILL COLLARS. 177' BHA LEFT IN THE HOLE, TOOLJOINT LOOKING UP TO WASHOVER IS AT 299'.
 20:30 PICKUP FISHING ASSEMBLY / WASH OVER TOOLS. TIH WITH DRILL COLLAR AND 1 STAND OF HWDP, WASH DOWN TO FISH AND PICK UP SINGLE OF HWDP.
 01:00 TAG FISH WHILE WASHING DOWN, SCREW INTO FISH AND TQ CONNECTION UP TO 18K (INCASE NEEDING TO BACK OUT IF FISH DOESN'T COME FREE).
 01:30 BEGIN JARRING AT 120K AND WORKING UP IN 10K INCREMENTS TO 235K. EVERY 8 ATTEMPTS OF JARRING SHUT DOWN AND PERFORM DERRICK AND TRAVELING ASSEMBLY INSPECTION.

Vis (s/qt): 32, Dens (lb/gal): 8.70, pH: 7.0

12/09/2022

Rig Name: H&P 462

Depth = 475.0 Progress = 0.0

06:00 JARRING 235K. EVERY HOUR ATTEMPTS OF JARRING SHUT DOWN AND PERFORM DERRICK AND TRAVELING ASSEMBLY INSPECTION.
 10:45 BACK OUT OF FISH
 11:00 CIRCULATE 60 VIS MUD AROUND
 11:15 L/D AND TRIP OUT JARRING TOOLS F/332' T/OVER SHOT SHOE
 13:00 PICK UP MILL, 6 JTS WASHOVER PIPE, 2 X-O'S, JARS
 16:00 TIH WITH 2 DC'S
 16:30 WASH OVER FISH & MILL STABILIZER FINS F/ 305' T/ 439' - GPM 495 - RPM 30 TO 50 - TQ LIMIT @ 5K.

Vis (s/qt): 62, Dens (lb/gal): 8.60, pH: 8.5

12/10/2022

Rig Name: H&P 462

Depth = 475.0 Progress = 0.0

06:00 MILL F/439.90 T/439.91, GPM 495 - RPM 30 TO 50 - TQ LIMIT @ 5K.
 06:30 TOO H - RACK BACK WASH PIPE
 08:45 RIG SERVICE
 09:15 PICKUP UP SCREW IN SUB ASSEMBLY & TIH TO TOP OF FISH.
 12:15 SCREW INTO FISH - STAGE UP IN 20K INCREMENTS TO MAX PULL OF 250K
 WHILE JARRING - INSPECT DERRICK EVERY HOUR - MOVED FISH 1.5'.
 14:00 TOP DRIVE REPAIR - REPLACE BROKEN BOLTS ON STABBING GUIDE &
 GRABBER DIE BLOCKS DUE TO JARRING.
 15:45 JAR ON FISH W/ 250K.
 16:45 TOO H - LAYDOWN FISHING TOOLS
 18:45 PICK UP WASH PIPE ASSEMBLY - TIH
 20:45 WASH OVER FISH TO TOP OF AKO ON MOTOR @ 467' - GPM 495, RPM 30 TO
 50, TQ LIMIT @ 5K.
 04:00 CIRC & COND HOLE.
 04:30 TOO H - LAYDOWN FISHING TOOLS.
 Vis (s/qt): 60, Dens (lb/gal): 8.50, pH: 9.0

12/11/2022

Rig Name: H&P 462

Depth = 475.0 Progress = 0.0

06:00 M/U FISHING TOOL, TRIP IN 2 STDS OF DRILL COLLARS, P/U ACCELERATOR
 AND X-O AND HWDP
 08:00 JAR ON FISH STARTING AT 120K UP TO 275K AT 20K INCREMENTS, INSPECT
 DERRICK EVERY HOUR AFTER JARRING, JARS STOPPED FIRING, DECISION
 WAS MADE TO WAIT ON WIRE LINE
 11:00 WAIT ON WIRELINE TRUCK
 13:00 RIG UP WIRE LINE TO BACKOFF FISH
 14:15 RUN BACKOFF SHOT TOOL TO 422.5' BACK OUT OF FISH AT 422.5'. RIG DOWN
 WIRELINE.
 15:30 TOO H WITH 128' OF FISH.
 16:00 REPAIR BROKEN BOLTS ON TOP DRIVE GRABBER BLOCK DUE TO JARRING.
 16:45 TOO H TO FISHING ASSEMBLY - LAYDOWN FISHING ASSEMBLY & FISH -
 RECOVERED EVERYTHING ABOVE UBHO SUB LEAVING UBHO SUB, STAB, MTR
 & BIT IN HOLE.
 19:15 LAYDOWN WASH PIPE FROM DERRICK WHILE WAITING ON NEW CUTLIP MILL
 SHOE & FISHING ASSEMBLY.
 01:00 STRAP & CALIPER FISHING BHA - P/U 12 1/4" MILLSHOE, 2 JNTS 11 3/4"
 WASH PIPE & FISHING JARS - TIH TO 355'.
 04:45 WASH OVER TOP OF FISH - 50 RPM, 345 GPM, TQ LIMIT SET @ 5K.
 Vis (s/qt): 63, Dens (lb/gal): 8.50, pH: 9.0

12/12/2022

Rig Name: H&P 462

Depth = 1,958.0 Progress = 1483.0

06:00 WASH OVER FISH F/450' T/475', 50 RPM, 345 GPM, TQ LIMIT SET @ 5K.
 15:45 TOO H WITH WASH OVER PIPE - REMAINDER OF FISH WAS LODGED INSIDE OF
 WASH PIPE - LAYDOWN WASH PIPE & FISH.
 17:30 SERVICE RIG
 18:00 INSPECT TOP DRIVE & DERRICK AFTER JARRING.
 18:45 PICKUP DIRECTIONAL BHA - TIH
 21:15 ROT DRILL F/ 475' T/ 664' - 189' - 252 FPH.
 22:00 SLIDE DRILL F/ 664' T/ 684' - 20' - 80 FPH - TF: 180M.
 22:15 ROT DRILL F/ 684' T/ 870' - 186' - 248 FPH.
 23:00 REPAIR OILER ON MP #3 - REPLACE PISTON ON MP #2
 23:30 ROT DRILL F/ 870' T/ 1328' - 458' - 204 FPH.
 01:45 SLIDE DRILL F/ 1328' T/ 1350' - 22' - 88 FPH - TF: 50M.
 02:00 ROT DRILL F/ 1350' T/ 1518' - 168' - 224 FPH.
 02:45 SLIDE DRILL F/ 1518' T/ 1543' - 25' - 100 FPH - TF: 50M.
 03:00 ROT DRILL F/ 1543' T/ 1615' - 72' - 288 FPH.
 03:15 SLIDE DRILL F/ 1615' T/ 1645' - 30' - 120 FPH - TF: 50M.
 03:30 ROT DRILL F/ 1645' T/ 1707' - 72' - 124 FPH.
 04:00 SLIDE DRILL F/ 1707' T/ 1732' - 25' - 100 FPH - TF: HS.
 04:15 ROT DRILL F/ 1732' T/ 1801' - 69' - 138 FPH.
 04:45 SLIDE DRILL F/ 1801' T/ 1826' - 25' - 50 FPH - TF: HS.
 05:15 ROT DRILL F/ 1826' T/ 1958' - 132' - 176 FPH.
 Vis (s/qt): 60, Dens (lb/gal): 8.50, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
506.0	505.95	1.65	8.93	-5.00	0.52	5.58	1.28
600.0	599.91	1.89	17.84	-7.51	0.39	8.40	1.97
791.0	790.86	0.74	85.15	-9.87	0.91	11.50	4.16
981.0	980.84	0.92	94.34	-9.09	0.12	11.49	6.90
1,076.0	1,075.82	1.38	83.91	-8.62	0.53	11.55	8.80
1,266.0	1,265.76	1.44	93.02	-7.42	0.12	11.67	13.46
1,360.0	1,359.73	1.77	86.19	-6.72	0.41	11.70	16.09
1,454.0	1,453.67	2.08	78.94	-6.25	0.42	12.13	19.21

1,549.0	1,548.59	2.86	66.01	-6.41	1.00	13.42	23.07
1,643.0	1,642.37	4.90	57.30	-7.86	2.25	16.54	28.59
1,737.0	1,735.88	6.69	55.05	-10.75	1.92	21.85	36.46
1,832.0	1,830.03	8.66	55.41	-14.76	2.07	29.08	46.88

12/13/2022

Rig Name: H&P 462

Depth = 3,949.0 Progress = 1991.0

06:00 ROT DRILL F/ 1,958' T/2,273' - 315' - 210 FPH.
07:30 CIRCULATE WHILE DISPLACING FW WITH 10 PPG BRINE WATER,
08:00 ROT DRILL F/2,273' T/2660' - 387' - 154.8 FPH.
10:30 SLIDE DRILL F/2,660' T/2,690' - 30' - 30 FPH - TF: HS.
11:30 ROT DRILL F/2,690' T/2,934' - 244' - 122 FPH.
13:30 SLIDE DRILL F/2,934' T/2,974' - 40' - 80 FPH - TF: 20L
14:00 ROT DRILL F/2,974' T/3,226' - 252' - 126 FPH.
16:00 SLIDE DRILL F/3,226' T/3,261' - 35' - 46.7 FPH - TF: 10L.
16:45 ROT DRILL F/3,261' T/3,345' - 84' - 112 FPH.
17:30 SERVICE RIG.
18:00 ROT DRILL F/3,345' T/3,604' - 259' - 104 FPH.
20:30 SLIDE DRILL F/3,604' T/3,639' - 35' - 47 FPH - TF: HS.
21:15 ROT DRILL F/3,639' T/3,792' - 153' - 102 FPH.
22:45 SLIDE DRILL F/3,792' T/3,832' - 40' - 27 FPH - TF: HS.
00:15 ROT DRILL F/3,832' T/3,949' - 117' - 43 FPH.
03:00 CIRCULATE 2 HIGH VIS SWEEPS AROUND PRIOR TO TOOH FOR BIT CHANGE.
04:45 FLOW CHECK - TOOH FOR BIT CHANGE DUE TO SLOW ROP.

Vis (s/qt): 27, Dens (lb/gal): 10.00, pH: 9.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
1,926.0	1,922.83	9.65	57.35	-19.20	1.10	37.35	59.34
2,020.0	2,015.55	9.26	55.98	-23.73	0.48	45.83	72.24
2,115.0	2,109.33	9.16	58.95	-27.98	0.51	54.01	85.06
2,209.0	2,202.09	9.48	61.26	-31.55	0.52	61.59	98.25
2,303.0	2,294.82	9.35	63.33	-34.60	0.39	68.74	111.87
2,397.0	2,387.57	9.33	63.78	-37.29	0.08	75.53	125.52
2,491.0	2,480.45	8.43	64.20	-39.74	0.96	81.90	138.56
2,586.0	2,574.51	7.70	64.11	-41.95	0.77	87.71	150.56
2,680.0	2,667.58	8.37	65.71	-43.96	0.75	93.27	162.46
2,774.0	2,760.54	8.69	65.85	-45.88	0.34	98.99	175.18
2,869.0	2,854.54	7.99	67.59	-47.56	0.78	104.44	187.83
2,963.0	2,947.57	8.45	66.72	-49.10	0.51	109.66	200.21
3,058.0	3,041.55	8.38	64.21	-51.09	0.39	115.43	212.86
3,152.0	3,134.64	7.60	63.82	-53.29	0.83	121.16	224.60
3,247.0	3,228.74	8.16	62.56	-55.67	0.62	127.04	236.22
3,341.0	3,321.71	8.79	61.82	-58.44	0.68	133.50	248.48
3,435.0	3,414.67	8.25	61.06	-61.40	0.59	140.16	260.71
3,530.0	3,508.75	7.73	59.70	-64.44	0.58	146.68	272.19
3,624.0	3,601.88	7.93	58.57	-67.66	0.27	153.25	283.18
3,718.0	3,695.01	7.61	58.42	-71.00	0.34	159.89	294.02

12/14/2022

Rig Name: H&P 462

Depth = 4,754.0 Progress = 805.0

06:00 TOOH F/1380' T/127'
07:00 L/D DIRECTIONAL BHA BREAK BIT GRADE BIT 8 INNER-5 OUTER-IN GAUGE,
P/U NEW BIT AND MOTOR SCRIBE MOTOR PICK MONELS INSTALL MWD, TEST
MWD (GOOD)
10:00 TIH F/127' T/3949', TIGHT SPOT @ 3,722'
11:45 WASH AND REAM F/3,722' T/3,949'
12:15 ROT DRILL F/3,949' T/3,986' - 37' - 74 FPH.
12:45 SLIDE DRILL F/3,986' T/4021' - 35' - 46.7 FPH - TF: HS.
13:30 ROT DRILL F/4,021' T/4,259' - 238' - 105.8 FPH.
15:45 RIG SERVICE
16:15 ROT DRILL F/4,259' T/4,458' - 199' - 99.5 FPH.
18:15 SLIDE DRILL F/4,458' T/4,483' - 25' - 33 FPH - TF: 45R.
19:00 ROT DRILL F/4,483' T/4,754' - 271' - 90 FPH.
22:00 CIRCULATE SAMPLES UP TO CONFIRM LAMAR FORMATION - CIRC 2 HIGH VIS
SWEEPS AROUND WITH DYE - CALC STKS = 8,704 ACTUAL = 12,060 - 39%
WASHOUT.
00:30 TOOH TO BHA.
03:00 LAYDOWN DIRECTIONAL BHA.
04:30 PJSM - RIG UP CASING EQUIPMENT.

Vis (s/qt): 28, Dens (lb/gal): 10.00, pH: 9.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
3,813.0	3,789.17	7.68	60.35	-74.13	0.28	166.32	304.89

3,908.0	3,883.28	8.04	59.43	-77.23	0.40	172.84	316.13
4,002.0	3,976.26	8.82	58.74	-80.71	0.84	179.93	327.95
4,097.0	4,069.83	11.02	57.78	-85.09	2.32	188.55	341.86
4,192.0	4,163.12	10.79	56.53	-90.21	0.35	198.29	356.96
4,286.0	4,255.56	10.12	55.74	-95.35	0.73	207.79	371.12
4,380.0	4,348.24	9.10	52.69	-100.57	1.21	216.95	383.86
4,475.0	4,441.93	9.91	51.64	-106.33	0.87	226.58	396.25
4,569.0	4,534.45	10.49	50.79	-112.71	0.64	237.01	409.22
4,686.0	4,649.61	9.83	48.09	-121.17	0.70	250.41	424.91

12/15/2022

Rig Name: H&P 462

Depth = 4,754.0 Progress = 0.0

06:00 PJSM, MAKE UP SHOE TRACK AND PUMP THROUGH FLOATS, RUN 43 JTS
10.750" 45.5# L-80 BTC, RUN 40 JTS 10.750 45.5# J-55 BTC,
12:00 WASH AND REAM F/3422' T/3507'
15:45 RUN 10.750 45.5# J-55 BTC CSG JNTS TO 4,610'.
18:00 WASH & REAM F/ 4,610' T/ 4,754' - SHOE @ 4,754', FC @ 4,709', DV @ 2,295'.
21:45 INSTALL CEMENT HEAD - RIG DOWN CSG EQUIPMENT WHILE CIRCULATING
HOLE CLEAN.
23:15 1ST STAGE - 10 3/4" SURFACE CEMENT: 40 BBLS 8.4# GEL SPACER W/ GREEN
DYE, 555 BBLS, 1640 SACKS OF 12.9# LEAD, 139 BBLS, 430 SACKS OF 13.5#
TAIL, DROP WIPER PLUG, 453 BBLS 10.0# BRINE, DISPLACEMENT, BUMP
PLUG, FCP 1000 PSI PRESSURE UP TO 1600 PSI. 30 BBLS CEMENT BACK TO
SURFACE. FLOATS HELD, BLEED BACK 2 BBL. DROP DV CANCELLATION CONE,
WAIT 10 MINS, CANCEL DV TOOL, PUMP 3 BBLS TO 1672 PSI. DV CLOSED, 2.5
BBLS BACK.
03:45 WASH DOWN LINES - RIG DOWN CEMENTING EQUIPMENT
04:15 RIG DOWN DIVERTER LINES - NIPPLE DOWN & LIFT DIVERTER - ROUGH CUT
CASING & LAYDOWN CUT JOINT.
Vis (s/qt): 28, Dens (lb/gal): 9.90, pH: 9.0

12/16/2022

Rig Name: H&P 462

Depth = 4,754.0 Progress = 0.0

06:00 CUT CONDUCTOR / FINAL CUT CASING, REMOVE CONDUCTOR FLANGE.
07:30 SET WELLHEAD IN PLACE / WELD, TEST TO 900 PSI (GOOD TEST). RELEASED
F/ UL TILDEN 16-31-32 WA4 #4H 12/15/2022 @ 09:30
09:30 NOOP

01/19/2023

Rig Name: H&P 462

Depth = 4,754.0 Progress = 0.0

06:00 NOOP
16:30 SKID RIG FROM TILDEN #13H.
17:30 REMOVE WELLCAP - NIPPLE UP STACK, CHOKE LINE, KILL LINE & MPD HARD
LINE.
19:30 INSTALL TEST PLUG - TEST SPEED HEAD & CHOKE LINE 250/5000 PSI FOR 5
MIN EACH TEST.
20:00 INSTALL WEAR BUSHING.
20:30 HOOK UP FLOWLINE - INSTALL STANDPIPE EXTENSIONS - HOOK UP KELLY
HOSE - CENTER STACK W/ TURNBUCKLES - INSTALL CELLAR COVERS - P/U
MOUSEHOLE
23:30 P/U 8.75" BIT, MTR, MWD & REMAINDER OF DIRECTIONAL BHA.
01:00 TIH TO DV TOOL @ 2,295'.
03:00 TEST CSG ABOVE DV TOOL TO 1500 PSI FOR 5 MINUTES.
03:15 DRILL OUT DV TOOL.
03:45 TIH TO FC @ 4,709'.
05:00 FILL PIPE & ESTABLISH CIRCULATION.
05:30 TEST CSG TO 1500 PSI FOR 30 MINUTES - LOST 50 PSI - GOOD TEST
Vis (s/qt): 28, Dens (lb/gal): 10.20, pH: 9.5

01/20/2023

Rig Name: H&P 462

Depth = 7,416.0 Progress = 2662.0

06:00 DRILL OUT SHOE TRACK.
07:30 ROT DRLG F/ 4,754' T/ 5,120' - 366' @ 146 FPH
10:00 SLD DRLG F/ 5,120' T/ 5,150' - 30' @ 24 FPH - TF = 90R
11:15 ROT DRLG F/ 5,150' T/ 5,484' - 334' @ 223 FPH
12:45 SLD DRLG F/ 5,484' T/ 5,510' - 26' @ 26 FPH - TF = 90R
13:45 ROT DRLG F/ 5,510' T/ 6,223' - 713' @ 238 FPH
16:45 SERVICE RIG
17:15 ROT DRLG F/ 6,223' T/ 6,415' - 192' @ 128 FPH
18:45 RE-LOG F/ 6,364 T/ 6,415' DUE TO TOTCO ISSUE.
19:00 ROT DRLG F/ 6,415' T/ 6,519' - 104' @ 208 FPH

19:30 SLD DRLG F/ 6,519' T/ 6,539' - 20' @ 26 FPH - TF = HS
20:15 ROT DRLG F/ 6,539' T/ 6,706' - 167' @ 223 FPH
21:00 SLD DRLG F/ 6,706' T/ 6,736' - 30' @ 30 FPH - TF = HS
22:00 ROT DRLG F/ 6,736' T/ 6,988' - 252' @ 168 FPH
23:30 SLD DRLG F/ 6,988' T/ 7,028' - 40' @ 32 FPH - TF = HS
00:45 ROT DRLG F/ 7,028' T/ 7,176' - 148' @ 118 FPH
02:00 SLD DRLG F/ 7,176' T/ 7,216' - 40' @ 40 FPH - TF = HS
03:00 ROT DRLG F/ 7,216' T/ 7,364' - 148' @ 85 FPH
04:45 SLD DRLG F/ 7,364' T/ 7,404' - 40' @ 40 FPH - TF = HS
05:45 ROT DRLG F/ 7,404' T/ 7,416' - 12' @ 48 FPH
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)
4,840.0	4,801.33	9.93	47.05	-132.81	0.13	268.24	444.41
5,028.0	4,986.47	10.07	46.15	-147.69	0.11	290.67	468.13
5,217.0	5,172.55	10.14	56.10	-160.37	0.92	311.40	493.85
5,311.0	5,265.06	10.31	54.75	-165.61	0.31	320.87	507.59
5,406.0	5,358.53	10.27	54.89	-171.10	0.05	330.65	521.46
5,595.0	5,544.75	9.46	66.07	-178.60	1.10	346.64	549.44
5,689.0	5,637.53	9.03	65.48	-180.69	0.47	352.83	563.21
5,877.0	5,823.10	9.41	63.97	-185.40	0.24	365.70	590.45
5,972.0	5,916.84	9.29	64.10	-187.99	0.13	372.46	604.32
6,065.0	6,008.60	9.49	64.40	-190.49	0.22	379.05	617.99
6,253.0	6,194.05	9.40	65.69	-195.13	0.12	392.07	645.96
6,347.0	6,286.82	9.14	65.84	-197.23	0.28	398.28	659.77
6,441.0	6,379.67	8.81	66.84	-199.11	0.39	404.17	673.20
6,534.0	6,471.46	9.65	67.93	-200.75	0.92	409.90	686.97
6,628.0	6,564.27	8.65	67.92	-202.25	1.06	415.52	700.82
6,722.0	6,657.11	9.34	68.10	-203.71	0.73	421.02	714.45
6,816.0	6,749.88	9.23	68.27	-205.17	0.12	426.65	728.53
6,910.0	6,842.82	8.00	67.75	-206.57	1.31	431.92	741.59
7,004.0	6,935.77	9.11	68.21	-207.96	1.18	437.16	754.55
7,098.0	7,028.62	8.84	68.08	-209.38	0.29	442.62	768.16
7,193.0	7,122.50	8.74	68.02	-210.81	0.11	448.05	781.63
7,286.0	7,214.51	8.00	68.15	-212.14	0.80	453.10	794.18
7,380.0	7,307.60	7.95	64.23	-213.85	0.58	458.36	806.11

01/21/2023

Rig Name: H&P 462

Depth = 8,865.0 Progress = 1449.0

06:00 ROT DRLG F/ 7,416' T/ 7,646' - 230' @ 71 FPH
09:15 SLD DRLG F/ 7,646' T/ 7,690' - 44' @ 29 FPH - TF = 20L
10:45 ROT DRLG F/ 7,690' T/ 7,834' - 144' @ 83 FPH
12:30 SLD DRLG F/ 7,834' T/ 7,889' - 55' @ 27 FPH - TF = 20L
14:30 ROT DRLG F/ 7,889' T/ 8,115' - 226' @ 100 FPH
16:30 LUBRICATE RIG.
17:00 SLD DRLG F/ 8,115' T/ 8,170' - 55' @ 24 FPH - TF = 20L
19:15 ROT DRLG F/ 8,170' T/ 8,209' - 39' @ 78 FPH
19:45 SLD DRLG F/ 8,209' T/ 8,229' - 20' @ 16 FPH - TF = HS
21:00 ROT DRLG F/ 8,229' T/ 8,584' - 355' @ 95 FPH
00:45 SLD DRLG F/ 8,584' T/ 8,614' - 30' @ 20 FPH - TF = 45L
02:15 ROT DRLG F/ 8,614' T/ 8,678' - 64' @ 85 FPH
03:00 SLD DRLG F/ 8,678' T/ 8,700' - 22' @ 22 FPH - TF = 60L
04:00 ROT DRLG F/ 8,700' T/ 8,865' - 165' @ 82 FPH

Vis (s/qt): 28, Dens (lb/gal): 10.05, pH: 10.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
7,474.0	7,400.68	8.15	64.55	-215.98	0.22	464.05	817.98
7,568.0	7,493.74	8.00	65.22	-218.00	0.19	469.65	829.94
7,662.0	7,586.84	7.89	68.56	-219.55	0.50	474.75	841.88
7,756.0	7,680.01	7.40	70.50	-220.47	0.59	479.13	853.59
7,944.0	7,866.55	6.86	68.10	-222.24	0.33	487.36	875.42
8,037.0	7,958.87	7.05	68.69	-223.28	0.22	491.51	885.89
8,131.0	8,052.06	8.00	63.48	-224.95	1.24	496.53	897.12
8,224.0	8,143.83	10.58	62.73	-227.73	2.78	503.33	910.50
8,318.0	8,236.22	10.64	63.93	-230.84	0.24	511.10	925.97
8,412.0	8,328.59	10.76	64.95	-233.66	0.24	518.62	941.71
8,506.0	8,421.19	9.09	77.02	-234.56	2.83	524.01	956.90
8,600.0	8,513.88	10.08	74.94	-233.96	1.12	527.81	972.08
8,693.0	8,605.34	10.82	70.89	-234.21	1.12	532.79	988.19
8,787.0	8,697.98	8.65	59.26	-236.41	3.10	539.29	1,002.60
8,881.0	8,791.01	7.83	56.68	-240.05	0.96	546.42	1,014.03

01/22/2023

Rig Name: H&P 462

Depth = 9,793.0 Progress = 928.0

06:00 SLD DRLG F/ 8,865' T/ 8,886' - 21' @ 21 FPH - TF = HS
 07:00 ROT DRLG F/ 8,886' T/ 8,959' - 73' @ 73 FPH
 08:00 SLD DRLG F/ 8,959' T/ 9,005' - 46' @ 20 FPH - TF = HS
 10:15 ROT DRLG F/ 9,005' T/ 9,272' - 267' @ 103 FPH
 12:45 MONITOR WELL, SICP @ 147 PSI, SIDPP @ 200 PSI
 13:00 BEGIN TO CIRCULATE KICK OUT AT 80SPM THROUGH GAS BUSTER. SHUT DOWN PRIOR TO FULL BOTTOMS UP WHEN H2S ON HANDHELD MONITOR ALARMED AT THE SHAKERS.
 14:30 SHUT IN WELL DUE TO H2S & WAIT ON THIRD PARTY STANDARD SAFETY TO GIVE ALL CLEAR. ONCE ALL CLEAR WAS RECEIVED ATTEMPTED TO FINISH INITIAL B/U, HAD 178 PPM OF H2S AT THE SHAKERS, SHUT DOWN AND SHUT IN TO WAIT ON CASCADE SYSTEM.
 20:30 FINISH CIRCULATING PRIOR B/U WITH H2S AT MAX LEVEL OF 178 PPM. CIRCULATED SURFACE TO SURFACE 25BBL H2S SWEEP. H2S LEVELS OF 0 PPM AFTER CIRCULATION.
 23:00 MONITORED ANNULAR PRESSURE 257 PSI. LINED UP ON MPD SYSTEM.
 23:30 ROT DRLG F/ 9,272' T/ 9,708' - 436' @ 102 FPH
 03:45 SLD DRLG F/ 9,708' T/ 9,738' - 30' @ 17 FPH - TF = 70R
 05:30 ROT DRLG F/ 9,738' T/ 9,793' - 55' @ 110 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)
8,974.0	8,883.20	7.38	55.24	-243.80	0.53	553.31	1,024.23
9,067.0	8,975.25	8.95	59.21	-247.50	1.79	560.41	1,035.35
9,161.0	9,068.12	8.88	61.33	-250.89	0.36	567.64	1,048.00
9,253.0	9,159.05	8.54	58.41	-254.21	0.61	574.62	1,060.05
9,347.0	9,252.00	8.61	57.04	-258.07	0.23	582.11	1,071.90
9,442.0	9,345.92	8.74	58.17	-262.05	0.23	589.78	1,083.99
9,536.0	9,439.22	5.27	34.65	-266.68	4.72	597.10	1,092.52
9,630.0	9,532.91	4.15	13.28	-272.36	2.19	603.97	1,095.76
9,725.0	9,627.70	3.53	26.01	-277.51	1.11	609.94	1,097.83
9,819.0	9,721.56	2.57	37.00	-280.91	1.19	614.23	1,100.37
9,912.0	9,814.50	1.59	42.42	-282.83	1.07	616.84	1,102.49
10,006.0	9,908.47	1.07	45.76	-283.92	0.56	618.42	1,104.00
10,100.0	10,002.46	0.93	58.84	-284.53	0.28	619.42	1,105.28
10,194.0	10,096.44	1.24	46.72	-285.18	0.41	620.52	1,106.67

01/23/2023

Rig Name: H&P 462

Depth = 10,262.0 Progress = 469.0

06:00 ROT DRLG F/ 9,793' T/ 10,262' - 469' @ 104 FPH.
 10:30 TAKE CHECK SHOT - OBTAIN SHUT IN PSI = 220
 11:00 CIRCULATE 2 SWEEPS AROUND.
 13:45 STRIP OUT OF HOLE F/ 10,262' T/ 1250' - FILLING W/ 80 BBLS 16.5 KILL MUD STARTING @ 5,600'.
 18:45 PERFORM FLOW CHECK, PULL ROTATING HEAD AND PERFORM VISUAL FLOW CHECK.
 19:00 TRIP OUT OF THE HOLE F/ 1,250' T/ BHA.
 19:30 PERFORM SAFETY MEETING WITH ALL PARTIES INVOLVED IN LAYING DOWN BHA, LAYDOWN 6.5" COLLARS AND BHA #4. BIT GRADE: 4-3-WT-N-X-I-NO-TD
 22:45 PICK UP MOTOR, SCRIBE, MAKE UP BIT, INSTALL MWD AND CROSSOVER FOR BHA #5.
 00:00 TRIP IN THE HOLE F/ 105' T/ 1,400'. INSTALL ROTATING HEAD.
 00:45 CIRCULATE BOTTOMS UP AND CAPTURE KILL MUD.
 02:15 STRIP IN THE HOLE F/ 1,400' T/ 2,936' BLEEDING OFF PROPER DISPLACEMENT UTILIZING MPD CHOKE.
 03:00 CIRCULATE BOTTOMS UP AND CAPTURE KILL MUD.
 03:30 STRIP IN THE HOLE F/ 2,936' T/ 8,014' BLEEDING OFF PROPER DISPLACEMENT UTILIZING MPD CHOKE.

Vis (s/qt): 28, Dens (lb/gal): 10.20, pH: 11.0

01/24/2023

Rig Name: H&P 462

Depth = 10,943.0 Progress = 681.0

06:00 STRIP IN HOLE F/ 8,014' T/ 10,255' UTILIZING MPD.
 07:45 CIRC GAS OUT THRU CHOKE MANIFOLD & GAS BUSTER.
 09:15 ROT DRLG F/ 10,262' T/ 10,271' - 9' @ 18 FPH.
 09:45 SLD DRLG F/ 10,271' T/ 10,319' - 48' @ 48 FPH - 155 MTF
 10:45 ROT DRLG F/ 10,319' T/ 10,329' - 10' @ 40 FPH.
 11:00 SLD DRLG F/ 10,329' T/ 10,365' - 36' @ 48 FPH - 155 MTF
 11:45 ROT DRLG F/ 10,365' T/ 10,390' - 25' @ 100 FPH.
 12:00 SLD DRLG F/ 10,390' T/ 10,413' - 23' @ 31 FPH - TF 15R
 12:45 ROT DRLG F/ 10,413' T/ 10,438' - 25' @ 100 FPH.

13:00 SLD DRLG F/ 10,438' T/ 10,459' - 21' @ 42 FPH - TF HS
13:30 ROT DRLG F/ 10,459' T/ 10,483' - 24' @ 96 FPH.
13:45 SLD DRLG F/ 10,483' T/ 10,509' - 26' @ 52 FPH - TF 10L
14:15 ROT DRLG F/ 10,509' T/ 10,530' - 21' @ 84 FPH.
14:30 SLD DRLG F/ 10,530' T/ 10,555' - 25' @ 50 FPH - TF 10R
15:00 ROT DRLG F/ 10,555' T/ 10,575' - 20' @ 80 FPH.
15:15 SLD DRLG F/ 10,575' T/ 10,606' - 31' @ 62 FPH - TF 15R
15:45 ROT DRLG F/ 10,606' T/ 10,613' - 7' @ 28 FPH.
16:00 SLD DRLG F/ 10,613' T/ 10,633' - 20' @ 40 FPH - TF 10R
16:30 SERVICE RIG.
17:00 ROT DRLG F/ 10,633' T/ 10,667' - 34' @ 136 FPH.
17:15 SLD DRLG F/ 10,667' T/ 10,697' - 30' @ 120 FPH - TF 10R
17:30 ROT DRLG F/ 10,697' T/ 10,707' - 10' @ 40 FPH.
17:45 SLD DRLG F/ 10,707' T/ 10,744' - 37' @ 74 FPH - TF 25R
18:15 ROT DRLG F/ 10,744' T/ 10,754' - 10' @ 40 FPH.
18:30 SLD DRLG F/ 10,754' T/ 10,791' - 37' @ 74 FPH - 10RT
19:00 ROT DRLG F/ 10,791' T/ 10,806' - 15' @ 37 FPH.
19:15 SLD DRLG F/ 10,806' T/ 10,838' - 32' @ 64 FPH - HS TF
19:45 ROT DRLG F/ 10,838' T/ 10,858' - 20' @ 80 FPH.
20:00 SLD DRLG F/ 10,858' T/ 10,885' - 27' @ 36 FPH -TF 25R
20:45 ROT DRLG F/ 10,885' T/ 10,903' - 18' @ 72 FPH.
21:00 SLD DRLG F/ 10,903' T/ 10,932' - 29' @ 116 FPH - TF 20R
21:15 ROT DRLG F/ 10,932' T/ 10,943' - 11' @ 22 FPH.
21:45 CIRCULATE TD SWEEP AROUND.
22:45 RE-LOG F/ 10,857' T/ 10,943'
23:30 STRIP OUT OF THE HOLE F/ 10,943' T/ 10,215'. PUMP PROPER FILL W/ KILL LINE PER STAND.
00:00 WASH AND REAM F/ 10,215' T/ 10,943'.
01:30 PUMP 1 25 BBL TD SWEEP AROUND TO CLEAN UP THE WELLBORE IN PREPARATION TO RUN CASING. WITH THE SWEEP ~5900' PRESSURE SPIKED AND POP OFF WENT OFF. ATTEMPTED TO PUMP DOWN THE DRILL STRING WITH ALL 3 PUMPS WITH THE DRILL STRING IMMEDIATELY PRESSURING UP. CHECKED ALL SURFACE EQUIPMENT AND COULD PUMP.
02:15 SHUT IN AND MONITOR ANNULAR PRESSURE FOR STRIPPING OUT OF THE HOLE. 265 PSI
02:45 STRIP OUT OF THE HOLE F/ 10,943' T/ 4,980' (PUMP PROPER FILL THROUGH THE KILL LINE) STARTED ADDING KWM AT 5,900'.

Vis (s/qt): 28, Dens (lb/gal): 10.00, pH: 11.5

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
10,304.0	10,206.30	5.04	140.46	-281.28	4.79	617.60	1,110.62
10,351.0	10,252.81	11.04	147.40	-275.06	12.91	612.22	1,114.36
10,398.0	10,298.59	15.04	148.93	-264.84	8.54	603.20	1,119.94
10,445.0	10,343.54	18.85	150.17	-251.56	8.14	591.38	1,126.86
10,492.0	10,387.73	20.99	149.23	-236.02	4.60	577.56	1,134.95
10,542.0	10,433.86	24.35	147.65	-217.44	6.83	561.16	1,145.05
10,586.0	10,473.37	27.81	148.77	-198.80	7.94	544.71	1,155.23
10,633.0	10,513.99	32.58	152.21	-175.79	10.79	524.13	1,166.82
10,680.0	10,552.63	36.76	152.51	-149.59	8.90	500.45	1,179.21
10,727.0	10,588.96	41.96	155.37	-120.22	11.72	473.67	1,192.26
10,774.0	10,622.29	47.66	156.30	-87.42	12.21	443.45	1,205.81
10,821.0	10,652.54	52.21	158.43	-51.68	10.28	410.26	1,219.62
10,869.0	10,680.68	56.00	160.75	-12.91	8.81	373.82	1,233.16

01/25/2023

Rig Name: H&P 462

Depth = 10,943.0 Progress = 0.0

06:00 STRIP OUT OF HOLE F/ 4,980' T/ 1,300' FILLING W/ 16.7 KMW - WELL STILL HOLDING 50 PSI
11:00 BULL HEAD 19 BBLS OF 16.8 KWM IN 2 TO 5 BBL INCREMENTS -
12:00 FLOW CHECK, WELL STATIC - TRIP OUT TO BHA - PULL ROT HEAD
13:00 L/D DIRECTIONAL BHA - BEARINGS LOCKED UP IN MOTOR. BIT GRADE: 1-2-CT-G-X-I-NO-TD
14:45 CLEAN RIG FLOOR - CHANGE OUT DIE BLOCKS IN ST-80.
15:45 STRAP, CALIPER & PICK UP CLEAN OUT BHA.
17:00 TIH TO 1,450' AND INSTALL THE ROTATING HEAD.
18:00 SLIP AND CUT DRILL LINE (11 WRAPS), PERFORM CROWN-O-MATIC VERIFICATION.
19:30 ESTABLISH RETURNS AND CAPTURE KWM AT SURFACE.
21:00 STRIP IN THE HOLE F/ 1,450' T/ 3,119'. BLEEDING OFF PROPER DISPLACEMENT.
22:00 CIRCULATE BOTTOMS UP AND CAPTURE KWM AT SURFACE.
22:30 STRIP IN THE HOLE F/ 3,119' T/ 4,723'. BLEEDING OFF PROPER DISPLACEMENT.
23:15 CIRCULATE BOTTOMS UP CAPTURE KWM AT SURFACE.
00:15 STRIP IN THE HOLE F/ 4,723' T/ 5,117'.

00:30 CHANGE OUT ROTATING HEAD GASKET.
00:45 STRIP IN THE HOLE F/ 5,117' T/ 10,943'.
03:30 PERFORM CLEAN UP CYCLES UNTIL SHAKERS CLEANED UP.
Vis (s/qt): 28, Dens (lb/gal): 10.00, pH: 10.5

01/26/2023

Rig Name: H&P 462

Depth = 10,943.0 Progress = 0.0

06:00 MONITORING PRESSURES, FOR STRIPPING OUT OF HOLE OPS. SHUT IN ANNULUS PRESSURE 380 PSI
07:00 STRIP OUT OF HOLE FORCE FILLING CALCULATED DISPLACEMENT F/10943' T/7700' WITH 10PPG ACTIVE MUD F/7700' T/4715' FORCE FILLING CALCULATED DISPLACEMENT WITH 16.5PPG KWM.
10:30 SHUT DOWN AND DUST UP KWM TO 16.5PPG
11:45 CONTINUE STRIPPING OUT OF HOLE F/4715' T/1200' FORCE FILLING CALCULATED DISPLACEMENT WITH 16.5PPG KWM, (FLOW CHECK WELL STATIC) TOO H F/1200' T/BHA, PULL ROTATING HEAD
14:45 BREAK OFF BIT, BIT SUB AND L/D.
15:00 PULL WEAR BUSHING.
15:15 CLEAN AND CLEAR FLOOR IN PREPARATION TO RUN CASING.
15:30 HOLD SAFETY MEETING WITH ALL PARTIES INVOLVED IN RIGGING UP TO RUN CASING. R/U CASING CRT, BALES, ELEVATORS, SLIPS, CASING TONGS, FILL UP LINE, BACK UP TONGS AND PERFORM DUMP TEST.
17:00 MAKE UP SHOE TRACK (THREADLOCK) AND PUMP THROUGH FLOATS, RUN TOTAL 15 JOINTS OF 7.625" L80HC R-3 TL-SW SMLS MADE UP TO OPTIMUM TORQUE 25,200 FT/LBS, 1 X-O, RUN 85 JOINTS OF L80HC BTC-SCC R-3 ERW MADE UP TO THE DIAMOND. AT JOINT 108 (4424') OBSERVED THE WELL STARTING TO FLOW. INSTALLED THE STRIPPING RUBBER.
23:30 RUN 42 JOINTS OF 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 91 JOINTS L80HC BTC-SCC R-3 ERW MADE UP TO THE DIAMOND TO 10,237'.

Vis (s/qt): 28, Dens (lb/gal): 10.05, pH: 10.0

01/27/2023

Rig Name: H&P 462

Depth = 10,943.0 Progress = 0.0

06:00 RUN 15 JOINTS L80HC BTC-SCC R-3 ERW MADE UP TO THE DIAMOND. FLOAT SHOE LOCATED AT 10,923' MD / FLOAT COLLAR AT 10,840' MD. LAND OUT WITH 285K, DOES NOT INCLUDE BLOCKS.
07:45 RIG UP CEMENT HEAD AND CIRCULATING IRON.
08:15 CIRCULATE BOTTOMS UP THROUGH THE CHOKE WHILE RIGGING DOWN CASING EQUIPMENT. HOLD SAFETY MEETING WITH ALL PERSONNEL INVOLVED IN THE CEMENT JOB.
09:45 TEST LINES TO 5,000 PSI, GOOD TEST. PUMP CEMENT JOB AS FOLLOWS; PUMPED 80 BBLS OF 8.4 PPG SPACER W/ WG-36, FOLLOWED BY 184 BBLS 10.5 PPG LEAD CEMENT (330 SX, 3.13 CU/FT SK YIELD, 19.6 GAL/SK), TAIL 63 BBLS 13.5 PPG (260 SX, 1.35 CU/FT SK YIELD, 6.62 GAL/SK) CEMENT AT 6 BBL/MIN. DROPPED PLUG AND DISPLACED WITH 498 BBLS OF 10.0 PPG BRINE. HAD FULL RETURNS BUMPED PLUG WITH 1580 PSI AND PRESSURED UP 2,070 PSI, STAGED UP TO 2500 PSI TO INFLATE THE PACKER BUT PRESSURE KEPT FALLING OFF, ATTEMPTED 2 TIMES, WELL WAS FLOWING AND COMMUNICATED 1900 PSI TO THE BACKSIDE WHEN TRYING TO INFLATE THE PACKER, CLOSED IN THE BACKSIDE AND BLED OFF TO CHECK THE FLOATS, FLOATS HELD, 2.5 BBLS RETURNED F/LINES, 20 BBLS OF SPACER TO SURFACE, DROPPED DV OPENING PLUG, WAITED 25 MINUTES, PRESSURE UP TO OPEN THE DV TOOL, CIRCULATED A BOTTOMS UP FROM THE DV TOOL WHILE HOLDING BACK PRESSURE. PUMPED 20 BBLS OF 8.4 PPG SPACER W/ WG-36, FOLLOWED BY 169 BBLS 11.5 PPG LEAD CEMENT (455 SX, 2.087 CU/FT SK YIELD, 12.07 GAL/SK), TAIL 21 BBLS 13.5 PPG (65 SX, 1.81 CU/FT SK YIELD, 9.61 GAL/SK) CEMENT AT 6 BBL/MIN. DROPPED PLUG AND DISPLACED WITH 213 BBLS OF 10.0 PPG BRINE. PLUG BUMPED, 20 BBLS OF SPACER AND TRACE OF CEMENT BACK TO SURFACE.
16:30 RIG DOWN CEMENT HEAD AND CIRCULATING IRON, WASH THROUGH CHOKE MANIFOLD TO GAS BUSTER, TRIP TANKS AND PANIC LINE WITH FRESH SUGAR WATER, VERIFY THE WELL IS DEAD.
17:00 LAYDOWN LANDING JOINT.
17:15 INSTALL AND TEST PACK-OFF TO 5000 PSI BOTH UPPER AND LOWER SEALS.
18:15 LAYDOWN CASING BALES AND ELEVATORS.
18:30 SAFETY MEETING ON NIPPLING DOWN THE STACK TO REPLACE THE ANNULAR ELEMENT. RIG DOWN THE DRILL CHOKE HARDLINE AND HOSE, RIG DOWN THE HYDRAULIC LINES AND AIR LINES FOR THE ORBIT VALVES, DRILLING CHOKE AND ROTATING HEAD CLAMP.
21:00 RIG DOWN FLOWLINE, TURN BUCKLES AND REMOVE MOUSE HOLE.
21:30 NIPPLE DOWN THE BOP AND REMOVE THE CHOKE LINE, MOVE BOP STACK TO THE SETBACK AREA. TO CHANGE OUT ANNULAR ELEMENT
22:15 UNBOLT THE ROTATING HEAD ASSEMBLY AND LAYDOWN.

23:45 UNBOLT ANNULAR CAP AND LAYDOWN. REMOVE THE OLD ELEMENT.
01:15 CLEAN AND INSTALL NEW ANNULAR ELEMENT, INSTALL ANNULAR CAP AND TORQUE. FUNCTION TEST ANNULAR.
04:00 INSTALL ROTATING HEAD ASSEMBLY AND TORQUE.
Vis (s/qt): 70, Dens (lb/gal): 11.50, pH: 0.0

01/28/2023

Rig Name: H&P 462

Depth = 10,943.0 Progress = 0.0

06:00 MOVE IN BOP TO SPOOL, HOOK UP COFLEX LINE TO CHOKE MANIFOLD, TORQUE ALL CONNECTIONS, HOOK UP ACCUMALATOR LINES AND FUNCTION TEST, HOOK UP ROTATING HEAD LINES AND FUNCTION TEST.
12:30 R/U TEST PLUG, TEST TOP DRIVE BACK TO PUMPS 250/LOW 7500/HIGH, ALL FLOOR SAFETY VALVES SUCH TIW, DART VALVE, INSTALL TEST PLUG TEST BLIND RAMS, UPPER AND LOWER PIPE RAMS ON 4-1/2" DP, ALL 2" AND 4" VALVES ON BOP 250/LOW 10K/HIGH, ANNULAR 250/LOW 3500 HIGH ON 4-1/2" DP, ROTATING HEAD CLAMP TO DRILL CHOKES 250/LOW 1K HIGH, P/U 5-1/2" DP TEST UPPER AND LOWER PIPE RAMS, 250/LOW 10K/HIGH, ANNULAR 250/LOW 3500 HIGH FOR 5 MIN EACH
18:00 PULL TEST PLUG LAYDOWN 5.5" TEST JOINT
18:15 ATTEMPT TO TEST DV TOOL TO 2000 PSI WITH TEST UNIT, SAW PRESSURE FALL FROM 1800 PSI TO 1400 PSI WHILE PRESSURING UP. TEST ORBIT VALVES TO 1000 PSI FOR 5 MINUTES EACH. GOOD TEST.
20:15 INSTALL WEAR BUSHING.
20:30 TEST DV TOOL FROM ABOVE TO 2000 PSI FOR 5 MINUTES WITH RIG PUMPS. GOOD TEST.
21:00 SAFETY MEETING WITH ALL PARTIES INVOLVED WITH PICKING UP BHA.
21:15 PICK UP BHA#6 DIRECTIONAL BHA, MONEL, MOTOR, SCRIBE, ORIENT UBHO, INSTALL MWD, MAKE UP THE BIT, STABS, TEST MWD.
23:45 TRIP IN THE HOLE F/ BHA T/ 2,468', TEST AGITATOR 900 PSI BEFORE AND 1050 PSI AFTER.
01:00 TRIP IN THE HOLE F/ 2,468' T/ 4,606'.
02:00 DRILL OUT DV AND CONTINGENCY COLLAR F/ 4,606' T/ 4,671'.
03:30 TRIP IN THE HOLE F/ 4,671' T/ 10,780'.
Vis (s/qt): 80, Dens (lb/gal): 12.00, pH: 0.0

01/29/2023

Rig Name: H&P 462

Depth = 12,130.0 Progress = 1187.0

06:00 TIH F/10780' T/10782',
06:15 CIRCULATE BTMS UP TO TEST CASING,
06:45 TEST CASING TO 2500PSI FOR 30 MINS. GOOD TEST
08:00 DISPLACE BRINE WITH 13 PPG OBM
09:15 DRILL CEMENT AND SHOE TRACK AND 10' NEW FORMATION,
11:45 CIRCULATE PRIOR TO FIT TO ENSURE MUD PROPERTIES IN AND OUT WERE THE SAME.
12:00 PERFORM FIT PRESSURED UP T/1560 PSI EQUIVLANT TO 15.8 PPG
12:30 DOWN LINK F/#2 MODE T/#1 MODE SPEEDS UP GETTING SURVEYS FASTER
13:00 S DRILL F/10,953 T/11,140' 187' @ 52.5' FPH TF: HS
16:45 ROT.DRILL F/11,140' T/11,157' 17' @ 68 FPH, LANDED CURVE AT 11,157' PROJECTING 92.2 DEGREES TVD:10771.85
17:00 RIG SERVICE
17:30 ROT DRLG F/ 11,157' T/ 11,261' - 104' @ 104 FPH.
18:30 SLD DRLG F/ 11,261' T/ 11,281' - 20' @ 40 FPH - 120RT TF
19:00 ROT DRLG F/ 11,281' T/ 11,355' - 74' @ 99 FPH.
19:45 SLD DRLG F/ 11,355' T/ 11,385' - 30' @ 60 FPH - 130RT TF
20:15 ROT DRLG F/ 11,385' T/ 11,450' - 65' @ 65 FPH.
21:15 SLD DRLG F/ 11,450' T/ 11,480' - 30' @ 53 FPH - 150RT TF
22:00 ROT DRLG F/ 11,480' T/ 11,545' - 65' @ 87 FPH.
22:45 SLD DRLG F/ 11,545' T/ 11,575' - 30' @ 40 FPH - 180 TF
23:30 ROT DRLG F/ 11,575' T/ 11,829' - 254' @ 92 FPH.
02:15 SLD DRLG F/ 11,829' T/ 11,849' - 20' @ 40 FPH - 140RT TF
02:45 ROT DRLG F/ 11,849' T/ 12,020' - 171' @ 114 FPH.
04:15 SLD DRLG F/ 12,020' T/ 12,050' - 30' @ 60 FPH - 75RT TF
04:45 ROT DRLG F/ 12,050' T/ 12,115' - 65' @ 87 FPH.
05:30 SLD DRLG F/ 12,115' T/ 12,130' - 15' @ 30 FPH - 90RT TF
Vis (s/qt): 75, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
10,950.0	10,723.01	60.98	164.25	56.09	7.17	307.98	1,253.86
10,997.0	10,743.98	66.01	162.86	98.14	11.02	267.66	1,265.78
11,044.0	10,759.94	74.26	161.97	142.29	17.64	225.56	1,279.13
11,091.0	10,769.15	83.11	160.80	188.29	18.99	181.93	1,293.83
11,185.0	10,772.85	92.37	159.39	281.93	9.96	93.71	1,325.78
11,279.0	10,767.79	93.81	159.71	375.54	1.57	5.77	1,358.57
11,374.0	10,761.01	94.37	161.65	470.16	2.12	-83.65	1,389.92

11,469.0	10,753.81	94.32	163.38	564.86	1.82	-174.00	1,418.38
11,563.0	10,748.13	92.61	164.27	658.69	2.05	-264.11	1,444.52
11,658.0	10,744.63	91.61	163.48	753.62	1.34	-355.30	1,470.88
11,753.0	10,741.58	92.07	163.08	848.57	0.64	-446.24	1,498.20
11,849.0	10,739.69	90.19	162.52	944.53	2.04	-537.92	1,526.58
11,944.0	10,739.99	89.45	160.67	1,039.46	2.10	-628.06	1,556.57
12,039.0	10,740.25	90.23	159.81	1,134.29	1.22	-717.46	1,588.69
12,134.0	10,738.42	91.98	162.78	1,229.17	3.63	-807.42	1,619.15

01/30/2023

Rig Name: H&P 462

Depth = 13,615.0 Progress = 1485.0

06:00 SLD DRLG F/ 12,130' T/ 12,150' - 20' @ 40 FPH - 90RT TF
06:30 ROT DRLG F/ 12,150' T/ 12,210' - 60' @ 80 FPH.
07:15 SLD DRLG F/ 12,210' T/ 12,240' - 30' @ 40 FPH - 135RT TF
08:00 ROT DRLG F/ 12,240' T/ 12,494' - 254' @ 78 FPH
11:15 SLD DRLG F/ 12,494' T/ 12,519' - 25' @ 33.3 FPH - 60L TF
12:00 ROT DRLG F/ 12,519' T/ 12,776' - 257' @ 93.5 FPH
14:45 SLD DRLG F/ 12,776' T/ 12,795' - 19' @ 38 FPH - 160RT TF
15:15 ROT DRLG F/ 12,795' T/ 12,955' - 160' @ 106.7 FPH
16:45 RIG SERVICE
17:15 ROT DRLG F/ 12,955' T/ 12,965' - 10' @ 40 FPH
17:30 SLD DRLG F/ 12,965' T/ 12,995' - 30' @ 30 FPH - 160RT TF
18:30 ROT DRLG F/ 12,995' T/ 13,059' - 64' @ 64 FPH
19:30 SLD DRLG F/ 13,059' T/ 13,090' - 31' @ 41 FPH - 45RT TF
20:15 ROT DRLG F/ 13,090' T/ 13,247' - 157' @ 57 FPH
23:00 SLD DRLG F/ 13,247' T/ 13,262' - 15' @ 30 FPH - 180 TF
23:30 ROT DRLG F/ 13,262' T/ 13,437' - 175' @ 54 FPH
02:45 SLD DRLG F/ 13,437' T/ 13,457' - 20' @ 20 FPH - 180 TF
03:45 ROT DRLG F/ 13,457' T/ 13,615' - 158' @ 70 FPH

Vis (s/qt): 72, Dens (lb/gal): 13.05, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
12,229.0	10,734.78	92.41	167.27	1,324.05	4.74	-899.10	1,643.67
12,323.0	10,733.33	89.36	166.68	1,417.88	3.30	-990.66	1,664.85
12,418.0	10,733.88	89.97	168.19	1,512.67	1.71	-1,083.38	1,685.52
12,512.0	10,731.81	92.56	165.16	1,606.50	4.24	-1,174.81	1,707.17
12,606.0	10,727.87	92.24	164.06	1,700.41	1.22	-1,265.36	1,732.10
12,700.0	10,723.55	93.03	163.44	1,794.31	1.07	-1,355.50	1,758.37
12,794.0	10,719.69	91.68	162.50	1,888.22	1.75	-1,445.30	1,785.88
12,889.0	10,715.99	92.78	162.15	1,983.12	1.22	-1,535.75	1,814.70
12,983.0	10,711.02	93.29	162.81	2,076.96	0.89	-1,625.26	1,842.96
13,077.0	10,707.60	90.87	164.49	2,170.89	3.13	-1,715.39	1,869.40
13,171.0	10,706.68	90.25	164.30	2,264.88	0.69	-1,805.92	1,894.68
13,266.0	10,706.81	89.60	164.56	2,359.87	0.74	-1,897.43	1,920.18
13,361.0	10,706.40	90.89	164.45	2,454.86	1.36	-1,988.98	1,945.56
13,455.0	10,707.16	88.19	163.52	2,548.84	3.04	-2,079.32	1,971.49

01/31/2023

Rig Name: H&P 462

Depth = 14,377.0 Progress = 762.0

06:00 MP#2 4" VALVE WASHED OUT, MP#3 LINER GASKET WASHED OUT
08:00 ROT DRLG F/ 13,615' T/ 13,906' - 291' @ 58.2 FPH
13:00 SLD DRLG F/ 13,906' T/ 13,938' - 32' @ 38 FPH - 90R TF
14:00 ROT DRLG F/ 13,938' T/ 14,000' - 62' @ 82.7 FPH
14:45 SLD DRLG F/ 14,000' T/ 14,027' - 27' @ 36 FPH - 90R TF
15:30 ROT DRLG F/ 14,027' T/ 14,095' - 68' @ 90.7 FPH
16:15 SLD DRLG F/ 14,095' T/ 14,127' - 32' @ 42.7 FPH - 90R TF
17:00 ROT DRLG F/ 14,127' T/ 14,181' - 54' @ 106 FPH
17:30 RIG SERVICE
18:00 ROT DRLG F/ 14,181' T/ 14,191' - 10' @ 20 FPH
18:30 SLD DRLG F/ 14,191' T/ 14,211' - 20' @ 27 FPH - 160RT TF
19:15 ROT DRLG F/ 14,211' T/ 14,286' - 75' @ 60 FPH
20:30 SLD DRLG F/ 14,286' T/ 14,320' - 34' @ 23 FPH - 180 TF
22:00 ROT DRLG F/ 14,320' T/ 14,377' - 57' @ 33 FPH
23:45 CIRCULATE SWEEP AROUND TO CLEAN THE WELLBORE AND PREPARE TO TRIP OUT OF THE HOLE TO CHANGE OUT BHA.
01:15 FLOW CHECK WELL, STATIC.
01:30 TRIP OUT OF THE HOLE F/ 14,377' T/ 5,986'.

Vis (s/qt): 85, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
13,549.0	10,710.20	88.10	162.84	2,642.79	0.73	-2,169.25	1,998.68
13,643.0	10,712.11	89.57	162.67	2,736.75	1.57	-2,259.00	2,026.54
13,738.0	10,713.18	89.14	161.26	2,831.70	1.55	-2,349.33	2,055.95

13,832.0	10,714.27	89.53	160.43	2,925.58	0.98	-2,438.12	2,086.79
13,926.0	10,712.97	92.06	161.99	3,019.47	3.16	-2,527.09	2,117.06
14,021.0	10,709.01	92.71	165.81	3,114.37	4.08	-2,618.26	2,143.38
14,115.0	10,705.59	91.46	165.60	3,208.25	1.35	-2,709.29	2,166.57
14,210.0	10,704.28	90.12	166.40	3,303.16	1.64	-2,801.46	2,189.55
14,304.0	10,704.41	89.72	166.34	3,397.06	0.43	-2,892.81	2,211.70

02/01/2023

Rig Name: H&P 462

Depth = 14,765.0 Progress = 388.0

06:00 TOOH F/5,986' T/108', L/D AGITATOR, FLOW CHECK, PULL ROTATING HEAD
10:00 L/D BHA NON-MAG WITH STAB., PULL MWD TOOL, NON MAG, DRAIN MOTOR, BREAK BIT, GRADE: 3-7-RO-S-X-I-CT-PR, L/D MOTOR, P/U NEW MOTOR 6 3/4" BIT #7, SCRIBE MOTOR, INSTALL MWD, M/U STAND TEST MWD (GOOD TEST)
12:00 TIH F/108' T/2,358', TEST PRESSURE BEFORE AGITATOR @ 300 GPM= 1850PSI, AFTER @ AGITATOR 300 GPM= 2200 PSI, TIH F/ 2,358' T/ 10,887'.
18:15 INSTALL ROTATING HEAD.
18:30 TIH F/ 10,887' T/ 14,276'
20:15 PERFORM CHECK SHOT AT 14,276' AND 14,370'.
20:30 ROT DRLG F/ 14,377' T/ 14,386' - 9' @ 36 FPH.
20:45 SLD DRLG F/ 14,386' T/ 14,403' - 17' @ 17 FPH - 180 TF
21:45 ROT DRLG F/ 14,403' T/ 14,475' - 72' @ 58 FPH.
23:00 SLD DRLG F/ 14,475' T/ 14,510' - 35' @ 35 FPH - 180 TF
00:00 ROT DRLG F/ 14,510' T/ 14,569' - 59' @ 79 FPH.
00:45 SLD DRLG F/ 14,569' T/ 14,580' - 11' @ 22 FPH - 120L TF
01:15 TROUBLE SHOOT PRESSURES ON MP'S. ISOLATE MP # 2.
01:45 TROUBLE SHOOT MWD.
02:30 SLD DRLG F/ 14,580' T/ 14,589' - 9' @ 18 FPH - 120L TF
03:00 ROT DRLG F/ 14,589' T/ 14,751' - 162' @ 72 FPH.
05:15 RIG SERVICE. DOWN TO MUD PUMP #1, WORKING ON MUD PUMP #2
05:45 ROT DRLG F/ 14,751' T/ 14,765' - 14' @ 56 FPH.
Vis (s/qt): 75, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
14,399.0	10,702.37	92.75	166.65	3,491.91	3.21	-2,985.15	2,233.88
14,493.0	10,698.82	91.58	167.32	3,585.69	1.43	-3,076.67	2,255.03
14,587.0	10,698.84	88.39	163.89	3,679.61	4.98	-3,167.69	2,278.39
14,682.0	10,701.58	88.31	164.53	3,774.57	0.68	-3,259.07	2,304.23
14,776.0	10,703.84	88.93	164.26	3,868.53	0.72	-3,349.58	2,329.51
14,870.0	10,705.27	89.33	164.52	3,962.52	0.51	-3,440.10	2,354.80

02/02/2023

Rig Name: H&P 462

Depth = 15,686.0 Progress = 921.0

06:00 ROT DRLG F/ 14,765' T/ 14,946' - 181' @ 103.4 FPH.
07:45 SLD DRLG F/ 14,946' T/ 14,967' - 21' @ 28 FPH - 180 TF
08:30 ROT DRLG F/ 14,967' T/ 15,040' - 73' @ 97.3 FPH.
09:15 SLD DRLG F/ 15,040' T/ 15,058' - 18' @ 24 FPH - 180 TF
10:00 ROT DRLG F/ 15,058' T/ 15,135' - 77' @ 102.7 FPH
10:45 SLD DRLG F/ 15,135' T/ 15,161' - 26' @ 26 FPH - 120L TF
11:45 ROT DRLG F/ 15,161' T/ 15,323' - 162' @ 72 FPH
14:00 SLD DRLG F/ 15,323' T/ 15,344' - 21' @ 21 FPH - 135L TF
15:00 ROT DRLG F/ 15,344' T/ 15,434' - 90' @ 72 FPH
16:15 SLD DRLG F/ 15,434' T/ 15,455' - 21' @ 28 FPH - 30L TF
17:00 ROT DRLG F/ 15,455' T/ 15,501' - 46' @ 92 FPH
17:30 RIG SERVICE
18:00 ROT DRLG F/ 15,501' T/ 15,686' - 185' @ 49 FPH
21:45 CIRCULATE SWEEP AROUND TO CLEAN UP THE WELLBORE IN PREPARATION TO PULL OUT OF THE HOLE.
23:15 FLOW CHECK WELL, STATIC.
23:30 TRIP OUT OF THE HOLE F/ 15,686' T/ 1,325'.

Vis (s/qt): 75, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
14,964.0	10,706.10	89.65	165.22	4,056.49	0.82	-3,530.84	2,379.34
15,059.0	10,707.27	88.94	166.04	4,151.43	1.14	-3,622.86	2,402.91
15,153.0	10,710.09	87.63	164.37	4,245.35	2.26	-3,713.69	2,426.91
15,247.0	10,712.69	89.20	163.92	4,339.31	1.74	-3,804.08	2,452.58
15,341.0	10,715.43	87.45	162.63	4,433.26	2.31	-3,894.06	2,479.61
15,436.0	10,720.32	86.65	162.64	4,528.12	0.84	-3,984.61	2,507.93
15,531.0	10,724.88	87.85	161.99	4,622.98	1.44	-4,075.01	2,536.75

02/03/2023

Rig Name: H&P 462

Depth = 16,036.0 Progress = 350.0

06:00 TOOH F/1300' T/108'

06:45 PJSM, RACK BACK NON-MAG, STAB, DRAIN MOTOR, BREAK BIT, GRADE BIT
(1-INNER-8-OUTER- OUT OF GAUGE), L/D MOTOR,
07:30 CLEAN OBM OFF FLOOR
07:45 M/U MOTOR, SCRIBE, M/U BIT, INSTALL MWD, M/U NON-MAG AND
STABILIZER
08:45 TIH 108' T/10914', PSI BEFORE AGITATOR 1800 PSI, AFTER P/U AGITATOR
2150 PSI
14:00 INSTALL ROTATING HEAD
14:30 SLIP AND CUT 10 WRAPS DRILLING LINE
15:30 SERVICE RIG, GREASE BLOCKS, SWIVEL PACKING, BONNET SEAL, GRABBER
BOX,SHOCK PIN, ROLLERS, ADD HYDRAULIC OIL, CHECK GEAR OIL/CROWN
SAVER.
16:00 TIH 10,914' T/11,034',
16:15 CHECK SHOT @ 11034
16:45 TIH 11,034' T/15,407',
19:30 WASH & REAM UNDER GUAGE HOLE F/ 15,407' T/ 15,686' - RELOG F/ 15,567'
T/ 15,686'.
21:30 ROT DRLG F/ 15,686' T/ 15,741' - 55' @ 55 FPH.
22:30 REPLACE CAP GASKET ON #2 MUD PUMP.
23:00 SLD DRLG F/ 15,741' T/ 15,760' - 19' @ 11 FPH - TF: 30R
00:45 ROT DRLG F/ 15,760' T/ 15,795' - 35' @ 70 FPH.
01:15 SLD DRLG F/ 15,795' T/ 15,820' - 25' @ 20 FPH - TF: 15R
02:30 ROT DRLG F/ 15,820' T/ 15,990' - 170' @ 76 FPH.
04:45 SLD DRLG F/ 15,990' T/ 16,005' - 15' @ 15 FPH - TF: 15R
05:45 ROT DRLG F/ 16,005' T/ 16,036' - 31' @ 124 FPH.

Vis (s/qt): 94, Dens (lb/gal): 13.10, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
15,628.0	10,729.82	86.31	161.08	4,719.78	1.84	-4,166.90	2,567.44
15,722.0	10,736.90	85.05	161.39	4,813.42	1.38	-4,255.65	2,597.59
15,815.0	10,741.60	89.16	160.52	4,906.17	4.52	-4,343.42	2,627.89
15,910.0	10,743.27	88.82	159.56	5,000.96	1.07	-4,432.70	2,660.31
16,005.0	10,745.37	88.65	160.36	5,095.74	0.86	-4,521.93	2,692.86

02/04/2023

Rig Name: H&P 462

Depth = 17,220.0 Progress = 1184.0

06:00 R/S DRILL F/16,036' T/16,068' 32' @ 42.7 FPH
06:45 SERVICE RIG, WORKING ON MP#1
07:15 CHANGE OUT FLUID MODULE ON MP#3, CHANGE OUT 4" MODULE ON
DISCHARGE SIDE ON MP #1, MP #1 IS READY
10:45 R/S DRILL F/16,068' T/16,078' 10' @ 40 FPH
11:00 SLD DRLG F/ 16,078' T/ 16,108' - 30' @ 30 FPH - TF: 70R
12:00 R/S DRILL F/16,108' T/16,455' - 347' @ 69 FPH
17:00 SLD DRLG F/ 16,455' T/ 16,487' - 32' @ 21 FPH - TF: 20R
18:30 R/S DRILL F/16,487' T/16,549' - 62' @ 62 FPH
19:30 SLD DRLG F/ 16,549' T/ 16,590' - 41' @ 20 FPH - TF: 15R
21:30 R/S DRILL F/16,590' T/17,210' - 620' @ 83 FPH
05:00 SLD DRLG F/ 17,210' T/ 17,220' - 10' @ 10 FPH - TF: 15R

Vis (s/qt): 80, Dens (lb/gal): 13.10, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
16,099.0	10,747.14	89.19	163.06	5,189.65	2.93	-4,611.15	2,722.35
16,193.0	10,747.22	90.72	163.64	5,283.65	1.74	-4,701.21	2,749.28
16,287.0	10,747.59	88.82	163.74	5,377.64	2.02	-4,791.42	2,775.68
16,382.0	10,749.91	88.38	163.64	5,472.61	0.47	-4,882.57	2,802.35
16,476.0	10,752.56	88.39	163.77	5,566.58	0.14	-4,972.76	2,828.72
16,570.0	10,752.17	92.09	164.98	5,660.55	4.14	-5,063.27	2,854.03
16,665.0	10,748.03	92.91	164.63	5,755.44	0.94	-5,154.86	2,878.91
16,759.0	10,742.77	93.50	164.24	5,849.29	0.75	-5,245.27	2,904.09
16,853.0	10,737.09	93.43	164.50	5,943.11	0.29	-5,335.63	2,929.37
16,948.0	10,731.94	92.79	164.34	6,037.96	0.69	-5,427.00	2,954.85
17,042.0	10,727.02	93.20	164.67	6,131.82	0.56	-5,517.46	2,979.92
17,137.0	10,724.41	89.96	163.75	6,226.77	3.55	-5,608.83	3,005.76
17,231.0	10,722.37	92.52	161.84	6,320.72	3.40	-5,698.59	3,033.56

02/05/2023

Rig Name: H&P 462

Depth = 18,144.0 Progress = 924.0

06:00 SLD DRLG F/ 17,220' T/ 17,240' - 20' @ 20 FPH - TF: 20R
07:00 R/DRILL F/17,240' T/17,493' - 253' @ 84.3 FPH
10:00 SLD DRLG F/ 17,493' T/ 17,518' - 25' @ 25 FPH - TF: 180
11:00 ROT DRILL F/17,518' T/17,682' - 164' @ 93.7 FPH
12:45 SLD DRLG F/ 17,682' T/ 17,694' - 12' @ 6 FPH - TF: 45R
14:45 DOWN LINK MWD TOOL
16:30 SLD DRLG F/ 17,694' T/ 17,713' - 19' @ 15.2 FPH - TF: 45R

17:45 R/DRILL F/17,713' T/17,777' - 64' @ 64 FPH
 18:45 SLD DRLG F/ 17,777' T/ 17,797' - 20' @ 11 FPH - TF: 50R
 20:30 R/DRILL F/17,797' T/17,965' - 168' @ 84 FPH
 22:30 SLD DRLG F/ 17,965' T/ 17,995' - 30' @ 13 FPH - TF: 60R
 00:45 R/DRILL F/17,995' T/18,077' - 82' @ 41 FPH
 02:45 SLD DRLG F/ 18,077' T/ 18,107' - 30' @ 15 FPH - TF: 90R
 04:45 R/DRILL F/18,107' T/18,144' - 37' @ 49 FPH
 05:30 SERVICE RIG

Vis (s/qt): 79, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
17,326.0	10,715.75	95.47	162.03	6,415.44	3.11	-5,788.68	3,062.94
17,420.0	10,705.76	96.73	163.64	6,508.89	2.17	-5,877.97	3,090.52
17,514.0	10,695.69	95.57	164.43	6,602.34	1.49	-5,967.83	3,116.23
17,609.0	10,691.34	89.68	160.37	6,697.16	7.53	-6,058.22	3,144.91
17,704.0	10,690.24	91.65	161.97	6,792.05	2.67	-6,148.13	3,175.57
17,798.0	10,684.83	94.95	162.92	6,885.86	3.65	-6,237.59	3,203.87
17,892.0	10,678.15	93.20	162.17	6,979.60	2.02	-6,327.03	3,232.00
17,987.0	10,671.47	94.87	162.60	7,074.33	1.81	-6,417.34	3,260.67
18,081.0	10,664.48	93.65	163.52	7,168.06	1.62	-6,507.01	3,287.99

02/06/2023

Rig Name: H&P 462

Depth = 18,189.0 Progress = 45.0

06:00 R DRILL F/18144' T/18187', 43' @ 43FPH

07:00 CIRCULATE, DECISION WAS MADE TO GO BACK TO BOTTOM AND TRY AND DRILL

07:30 R DRILL F/18187' T/18189', 2' @ 8 FPH

07:45 CIRCULATE 2 SWEEPS AROUND RACKING BACK 1 JT AFTER EACH BTM UP, CHECK FLOW WELL STATIC,

10:45 TOO H PER SURGE AND SWAB MODEL F/18,189' T/ BHA - L/D AGITATOR.

20:45 RIG SERVICE - CHANGE DIES IN ST-80.

21:15 CHANGE OUT DIRECTIONAL BHA

23:00 TIH AS PER SURGE MODEL T/ 11,040' - CHECK SHOT, TEST MWD - P/U CONT
 TIH.PSI BEFORE AGITATOR 225GPM=1275 PSI AFTER AGITATOR
 225GPM=1685 SPI

Vis (s/qt): 81, Dens (lb/gal): 13.00, pH: 0.0

02/07/2023

Rig Name: H&P 462

Depth = 19,369.0 Progress = 1180.0

06:00 TIH AS PER SURGE MODEL MAX SPEED NOT TO EXCEED EMW OF 15.8 PPG
 F/14,300' T/17,540',

08:15 WASH AND REAM THRU TIGHT SPOTS F/17540' T/17,715',

08:45 TIH SPEED AS PER SURGE MODEL NOT TO EXCEED EMW OF 15.8 PPG
 F/17,715' T/18,050',

09:00 RELOG F/18050' T/18,189',

09:30 R/ DRILL F/18,189' T/18,249' 60' @ 48 FPH

10:45 SLD DRLG F/ 18,249' T/ 18,278' - 29' @ 19.3 FPH - TF: 90R

12:15 R/ DRILL F/18,278' T/18,438' 160' @ 106.7 FPH

13:45 SLD DRLG F/ 18,438' T/ 18,463' - 25' @ 20 FPH - TF: 40R

15:00 R/ DRILL F/18,463' T/18,627' 164' @ 109 FPH

16:30 SLD DRLG F/ 18,627' T/ 18,651' - 24' @ 14 FPH - TF: 40R

18:15 R/ DRILL F/18,651' T/19,004' 353' @ 101 FPH

21:45 SLD DRLG F/ 19,004' T/ 19,029' - 25' @ 11 FPH - TF: HS

00:00 R/ DRILL F/19,029' T/19,191' - 162' @ 93 FPH

01:45 SLD DRLG F/ 19,191' T/ 19,216' - 25' @ 14 FPH - TF: 80R

03:30 R/ DRILL F/19,216' T/19,369' - 153' @ 61 FPH

Vis (s/qt): 104, Dens (lb/gal): 13.10, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
18,176.0	10,656.97	95.42	162.95	7,262.76	1.96	-6,597.69	3,315.30
18,270.0	10,649.14	94.14	164.43	7,356.43	2.08	-6,687.59	3,341.61
18,365.0	10,643.79	92.32	164.49	7,451.26	1.92	-6,778.97	3,367.02
18,460.0	10,639.40	92.97	165.83	7,546.13	1.57	-6,870.70	3,391.32
18,554.0	10,634.83	92.60	165.96	7,639.95	0.42	-6,961.75	3,414.20
18,648.0	10,628.61	94.99	165.92	7,733.67	2.54	-7,052.73	3,436.99
18,742.0	10,620.53	94.88	166.28	7,827.24	0.40	-7,143.64	3,459.48
18,836.0	10,613.00	94.31	165.49	7,920.87	1.03	-7,234.51	3,482.33
18,931.0	10,606.56	93.46	164.40	8,015.62	1.45	-7,326.03	3,506.95
19,024.0	10,598.79	96.13	163.45	8,108.29	3.05	-7,415.08	3,532.61
19,118.0	10,588.99	95.83	162.06	8,201.76	1.50	-7,504.36	3,560.32
19,212.0	10,578.18	97.38	165.32	8,295.12	3.82	-7,593.96	3,586.55
19,306.0	10,564.93	98.83	164.43	8,388.16	1.81	-7,683.80	3,610.83

02/08/2023

Rig Name: H&P 462

Depth = 19,628.0 Progress = 259.0

06:00 ROT DRILL F/19,369' T/19,379' 10' @ 40 FPH
 06:15 SLD DRLG F/ 19,379' T/ 19,391' - 12' @ 12 FPH - TF: 150R
 07:15 ROT DRILL F/19,391' T/19,568' 177' @ 78.7 FPH
 09:30 SLD DRLG F/ 19,568' T/ 19,588' - 20' @ 13.3 FPH - TF: 180
 11:00 ROT DRILL F/19,588' T/19,628' 40' @ 40 FPH
 12:00 CIRCULATE 2 SWEEPS AROUND RACKING BACK 1 JT AFTER EACH BTM UP,
 CHECK FLOW WELL STATIC,
 15:15 TOOHS AS PER SWAB MODEL NOT TO EXCEED BELOW 10.5 PPG EMW F/19,628'
 T/13,100'.
 19:30 CHANGE OUT DIE CARRIER ON ST-80.
 20:30 TOOHS AS PER SWAB MODEL NOT TO EXCEED BELOW 10.5 PPG EMW F/13,100'
 T/12,100'.
 21:30 CHANGE OUT DOVE TAIL & HYDRAULIC HOSE ON ST-80.
 23:15 TOOHS AS PER SWAB MODEL NOT TO EXCEED BELOW 10.5 PPG EMW F/12,100'
 T/BHA.
 05:30 WORK BHA - CHANGE OUT BIT & MOTOR.

Vis (s/qt): 97, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
19,401.0	10,553.93	94.46	163.89	8,482.49	4.63	-7,774.55	3,636.58
19,495.0	10,541.38	100.90	165.91	8,575.58	7.17	-7,864.44	3,660.84

02/09/2023

Rig Name: H&P 462

Depth = 19,880.0 Progress = 252.0

06:00 P/U PICKED UP MOTOR, BIT, SCRIBE MOTOR, INSTALL MWD, TEST MWD,
 07:45 TIH AS PER SURGE MODEL MAX SPEED NOT TO EXCEED EMW OF 15.8 PPG
 F/108' T/2,443'
 08:45 1900 PSI BEFORE AGITATOR, P/U AGITATOR 2250 PSI
 09:15 TIH AS PER SURGE MODEL MAX SPEED NOT TO EXCEED EMW OF 15.8 PPG
 F/2,443' T/10,875', INSTALL ROTATING HEAD
 13:30 SLIP & CUT DRILLING LINE
 14:15 TIH AS PER SURGE MODEL MAX SPEED NOT TO EXCEED EMW OF 15.8 PPG
 F/10,875' T/19,628'.
 19:45 ROT DRLG F/ 19,628' T/ 19,880' - 252' @ 42 FPH
 01:45 CIRCULATE SWEEP AROUND PRIOR TO TOOHS DUE TO SLOW ROP.
 03:45 TOOHS AS PER SWAB MODEL TO MAINTAIN EMW @ +10.5 PPG. FROM 19,880'
 T/ 16,531'.

Vis (s/qt): 104, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
19,590.0	10,529.14	93.91	163.72	8,669.70	7.70	-7,955.29	3,685.52
19,684.0	10,522.53	94.16	163.82	8,763.47	0.29	-8,045.32	3,711.73
19,779.0	10,514.71	95.28	163.12	8,858.15	1.39	-8,136.08	3,738.66

02/10/2023

Rig Name: H&P 462

Depth = 19,880.0 Progress = 0.0

06:00 TOOHS AS PER SWAB MODEL TO MAINTAIN EMW @ +10.5 PPG. FROM 16,531'
 T/ 10,457'
 10:30 TOOHS AS PER SWAB MODEL TO MAINTAIN EMW @ +10.5 PPG. FROM 10,457'
 T/ 2,468'.
 15:00 TOOHS AS PER SWAB MODEL TO MAINTAIN EMW @ +10.5 PPG. FROM 2,468' T/
 SURFACE. GRADE: 2-3-CT-S-X-IN-N-PR
 17:15 PICK UP MOTOR AND SCRIBE, MAKE UP 6.75" ULTERRA BIT, INSTALL MWD
 TOOL & TEST.
 18:45 TIH T/ 1,021' AS PER SURGE MODEL NOT TO EXCEED 15.8 EMW.
 19:15 SERVICE RIG - TROUBLESHOOT ENCODER ISSUE ON DRAWWORKS.
 19:45 TIH T/ 11,100' AS PER SURGE MODEL NOT TO EXCEED 15.8 EMW.
 01:15 BREAK CIRCULATION - TEST MWD.
 01:45 TIH T/ 15,000' AS PER SURGE MODEL NOT TO EXCEED 15.8 EMW.
 03:15 FILL PIPE - BREAK CIRCULATION
 03:45 TIH T/ 19,000' AS PER SURGE MODEL NOT TO EXCEED 15.8 EMW.
 05:30 FILL PIPE - BREAK CIRCULATION
 Vis (s/qt): 115, Dens (lb/gal): 13.00, pH: 0.0

02/11/2023

Rig Name: H&P 462

Depth = 20,348.0 Progress = 468.0

06:00 TIH F/ 19,000' T/ 19,750' AS PER SURGE MODEL NOT TO EXCEED 15.8 EMW.
 06:45 WASH AND REAM F/ 19,750' T/ 19,880'.
 07:15 ROT DRLG F/ 19,880' T/ 19,965' - 85' @ 24 FPH
 10:45 TROUBLE SHOOT MWD.
 11:15 ROT DRLG F/ 19,965' T/ 20,038' - 73' @ 36.5 FPH

13:15 SLD DRLG F/ 20,038' T/ 20,070' - 32' @ 11 FPH - 85R TF
 16:15 ROT DRLG F/ 20,070' T/ 20,122' - 52' @ 52 FPH
 17:15 RIG SERVICE, GREASE SWIVEL PACKING, BONNET SEAL, BLOCKS, TOP OFF HYDRAULIC OIL.
 17:45 ROT DRLG F/ 20,122' T/ 20,230' - 108' @ 144 FPH
 18:30 SLD DRLG F/ 20,230' T/ 20,255' - 25' @ 8 FPH - 90R TF
 21:45 ROT DRLG F/ 20,255' T/ 20,324' - 69' @ 92 FPH
 22:30 SLD DRLG F/ 20,324' T/ 20,348' - 24' @ 12 FPH - 90R TF
 00:30 ELECTRIC WIRE TO BLOWER MOTOR ON DRAWWORKS ARCING & CAUSING FAULT CODES FOR DRAWWORKS - ELECTRICIAN REPAIRED WIRE & FAULTS DID NOT CLEAR - ELECTRICIAN TROUBLESHOOTING CAUSE OF FAULT CODES DETERMINED TRACTION MOTOR ON DRAWWORKS IS BAD - WAIT ON NEW TRACTION MOTOR.

Vis (s/qt): 105, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
19,870.0	10,507.43	93.89	159.70	8,948.77	4.05	-8,222.04	3,767.58
19,964.0	10,501.86	92.91	159.05	9,042.33	1.25	-8,309.86	3,800.63
20,059.0	10,496.12	94.01	161.48	9,136.98	2.80	-8,399.11	3,832.65
20,154.0	10,488.61	95.06	159.89	9,231.54	2.00	-8,488.48	3,863.97
20,248.0	10,478.51	97.28	160.16	9,324.80	2.38	-8,576.31	3,895.89

02/12/2023

Rig Name: H&P 462

Depth = 21,125.0 Progress = 777.0

06:00 REMOVE TRACTION MOTOR B FROM THE DRAWWORKS AND WAIT ON NEW TRACTION MOTOR TO ARRIVE ON LOCATION.
 09:00 INSTALL NEW TRACTION MOTOR, RESET PLC'S, RE-CALIBRATE DRAWWORKS AND TEST CROWN-O-MATIC.
 12:30 ROT DRLG F/ 20,348' T/ 20,418' - 70' @ 70 FPH.
 13:30 SLD DRLG F/ 20,418' T/ 20,463' - 45' @ 15 FPH - 90R TF
 16:30 ROT DRLG F/ 20,463' T/ 20,701' - 238' @ 50 FPH.
 21:15 SLD DRLG F/ 20,701' T/ 20,741' - 40' @ 13 FPH - 120R TF
 00:15 ROT DRLG F/ 20,741' T/ 21,125' - 384' @ 67 FPH - T.D. PROD SECTION @ 21,115'.

Vis (s/qt): 95, Dens (lb/gal): 13.00, pH: 0.0

MD (ft)	TVD (ft)	Incl (°)	Azi (°)	VS (ft)	DLS (°/100ft)	N/S (ft)	E/W (ft)
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20,342.0	10,468.05	95.50	160.05	9,418.03	1.90	-8,664.14	3,927.68
20,436.0	10,456.44	98.69	162.35	9,511.20	4.17	-8,752.43	3,957.74
20,530.0	10,442.66	98.16	164.56	9,604.18	2.39	-8,841.56	3,984.22
20,625.0	10,430.51	96.54	163.89	9,698.39	1.84	-8,932.22	4,009.83
20,720.0	10,421.88	93.88	165.09	9,792.98	3.07	-9,023.38	4,035.13
20,815.0	10,416.85	92.19	166.79	9,887.76	2.52	-9,115.40	4,058.17
20,909.0	10,410.95	95.01	168.31	9,981.36	3.41	-9,206.99	4,078.40
21,003.0	10,404.48	92.89	166.83	10,074.91	2.75	-9,298.56	4,098.58
21,059.0	10,401.40	93.40	166.62	10,130.75	0.98	-9,352.98	4,111.42
21,125.0	10,397.48	93.39	166.58	10,196.61	0.00	-9,417.36	4,125.90

02/13/2023

Rig Name: H&P 462

Depth = 21,125.0 Progress = 0.0

06:00 PERFORM CLEAN UP CYCLES, PUMPING A SWEEP DURING EACH ONE AND RACKING BACK A STAND ONCE SWEEP IS BACK TO SURFACE. FIRST SWEEP WAS 63.5 BBLS LATE, SECOND SWEEP WAS 67.2 BBLS LATE, THIRD SWEEP WAS 72.4 BBLS LATE.
 12:30 PERFORM WIPER TRIP OUT OF THE HOLE F/ 20,881' T/ 19,747'.
 13:45 WASH AND REAM BACK TO BOTTOM F/ 19,747' T/ 21,125'.
 16:00 PERFORM CLEAN UP CYCLES, PUMPING A SWEEP DURING EACH ONE AND RACKING BACK A STAND ONCE THE SWEEP IS BACK TO SURFACE. FIRST SWEEP WAS 76.4 BBLS LATE, SECOND SWEEP WAS 85.3 BBLS LATE.
 21:15 FLOW CHECK - TOO H F/ 21,125' T/ 20,723' AS PER SWAB MODEL TO MAINTAIN EMW @ +10.5 PPG.
 21:45 RIG SERVICE, CLEAN AND CLEAR FLOOR AND BEGIN REPAIR ON BROKEN ST-80 FITTING.
 22:15 CIRC & COND WHILE REPAIRING HYDRAULIC FITTING ON ST-80.
 23:00 TOO H F/ 20,723' T/ 8,000' AS PER SWAB MODEL TO MAINTAIN EMW @ +10.5 PPG.

Vis (s/qt): 79, Dens (lb/gal): 13.00, pH: 0.0

02/14/2023

Rig Name: H&P 462

Depth = 21,125.0 Progress = 0.0

06:00 TOO H F/ 8,000' T/ BHA' AS PER SWAB MODEL TO MAINTAIN EMW @ +10.5 PPG.

11:00 SAFETY MEETING WITH ALL PARTIES INVOLVED IN LAYING DOWN THE BHA.
11:15 LAYDOWN DIRECTIONAL BHA, MOTOR, MONELS, MWD, STABS, UBHA AND CROSSOVER. BREAK THE BIT FROM THE MOTOR. BIT GRADE:
2-3-WT-G-X-I-N-TD
13:00 PULL WEAR BUSHING.
13:15 CLEAN AND CLEAR THE FLOOR IN PREPARATION TO RIG UP CASING.
13:30 SAFETY MEETING WITH ALL PERSONNEL INVOLVED IN RIGGING UP AND RUNNING 5.5" PRODUCTION CASING.
13:45 RIG UP CASING EQUIPMENT, BALES, ELEVATORS, CASING TONGS AND HOSES, SLIPS, FILL UP HOSE, TORQUE TURN EQUIPMENT, PERFORM DUMP TEST ON CASING TONGS.
15:00 MAKE UP / THREADLOCK SHOE TRACK AND PUMP THROUGH FLOATS, THREADLOCK TOE SLEEVE, RUN 49 JTS 5.5" 20# IP HCP-110 TLW CASING MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FLOATING CASING IN.
18:00 RUN 200 (TOTAL 249) JTS 5.5" 20# IP HCP-110 TLW CASING WITH 3 MARKER JNTS (AVG SPACING 3,314') TO 10,683' - MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FLOATING CASING IN.
Vis (s/qt): 81, Dens (lb/gal): 12.60, pH: 0.0

02/15/2023

Rig Name: H&P 462

Depth = 21,125.0 Progress = 0.0

06:00 RUN 4(TOTAL 253) JTS 5.5" 20# IP HCP-110 TLW CASING WITH 1 MARKER JNTS (AVG SPACING 3,314') F/ 10,683' T/ 10863', MADE UP ARSENAL FLOATATION SUB - MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FLOATING CASING IN.
06:45 RUN 98 (TOTAL 351) JTS 5.5" 20# IP HCP-110 TLW CASING F/ 10,863' TO 15,093' - MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FILLING CASING ON THE FLY WITH 12.6 PPG OBM.
12:30 RUN 25 (TOTAL 376) JTS 5.5" 20# HC EIP-110 TLW CASING AND MARKER PUP A F/ 15,093' TO 16,106', MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FILLING CASING ON THE FLY WITH 12.6 PPG OBM.
13:45 RUN 28 (TOTAL 404) JTS 5.5" 20# HC EIP-110 TLW CASING F/ 16,106' TO 17,220', MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FILLING CASING ON THE FLY WITH 12.6 PPG OBM.
15:30 RUN 101 (TOTAL 505) JTS 5.5" 20# HC EIP-110 TLW CASING F/ 16,106' TO 21,073', MAKE UP TORQUE TO 18,750. UTILIZING SEAL LUBE. FILLING CASING ON THE FLY WITH 12.6 PPG OBM.
19:45 P/U LANDING JNT, MANDREL HANGER & PUP - LAND CSG IN HANGER. FLOAT SHOE @ 21,105', FLOAT COLLAR @ 21,082', TOE SLEEVE @ 21,032', LAND MANDREL IN HANGER, STRING WT 85K, BLOCK WT 43K, 42K ON HANGER (LOW S/O WT DUE TO FLOATED IN CASING).
20:15 RIG DOWN CRT
20:30 RIG UP FULLBORE TIW AND CEMENT HEAD, MAKE UP CEMENT HOSE FOR CIRCULATING.
21:15 FILL PIPE, BURST FLOATATION SUB DISC @ 1591 PSI, BLEED OFF AIR, FILL VOID IN PIPE AT 70 SPM AS PER ARSENAL PROCEDURE.
23:00 CONDITION AND CIRCULATE WHILE CUTTING MUD WT FROM 13.0 PPG TO 12.6 PPG IN PREPARATION FOR CEMENT JOB. ESTABLISHED CONSISTENT WT AND PARAMETERS IN/OUT AND THEN PUMPED ADDITIONAL BOTTOMS UP.
03:00 HOLD PRE-JOB SAFETY MEETING WITH ALL PERSONNEL INVOLVED IN CEMENT JOB.
03:15 PRESSURE TEST TO 7000 PSI, PUMP 150 BBL OF 13.0 PPG SPACER AT 4 BPM W/ 2316 PSI FOLLOWED BY 307 BBLS (1285 SX, 1.34 CU/FT SK YIELD, 6.56 GAL/SK) 13.5 PPG CEMENT AT 4 BPM W/ 1950 PSI. DROPPED PLUG AND DISPLACED WITH 20 BBLS OF MMCR AND SUGAR WATER CHASED W/ 10.0 PPG BRINE.

Vis (s/qt): 79, Dens (lb/gal): 13.00, pH: 0.0

02/16/2023

Rig Name: H&P 462

Depth = 21,125.0 Progress = 0.0

06:00 DISPLACED CEMENT WITH 10.0 PPG BRINE AT 4 BPM W/ 4378 PSI UTILIZING BOTH CEMENT TRUCKS FOR 468 BBLS. BUMPED PLUG AT 4506 PSI AND WENT TO 5349 PSI. BLEED OFF 6 BBLS. FLOATS HELD, WELL STATIC. FULL RETURNS THROUGHOUT THE JOB AND APPROXIMATELY 100 BBLS OF SPACER BACK TO SURFACE. CIP 07:50
08:00 RIG DOWN CEMENT EQUIPMENT.
08:30 WASH AND BLOW DOWN LINES.
09:00 LAYDOWN LANDING JOINT AND RIG DOWN CASING BALES AND ELEVATORS.
09:30 INSTALL AND TEST PACK-OFF.
10:30 NIPPLE DOWN THE BOP STACK, INSTALL BPV AND NIGHT CAP.
12:00 NOOP