

ENSIGN 125

Accept:12/18/2022

Release:

Days Since LTI:864.00

Days Since RI:864.00

Daily Drilling Report

PERMIAN ASSET TEAM

Job:ODR

Report Date:12/18/2022

Report #:3

DFS:2

AFE #:9023601

Total AFE + Sup:\$3,388,321.35

Daily Field Est. (Cost):\$160,102.49

| | | | | | | | | | | | | | | | | |
|---|----------|----------------------------|----------------------|--|----------------------------|------------------------------------|--|---|---------------------------------|--|---------------------------------------|---------------------------|---------------------------|---------------------------------------|-----------------------------------|--|
| API/UWI 42--003-48666-0000 | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | | | | | | | |
| SSN ID00034057 | | Property Sub | | KB-Grd (ft) 25.00 | | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | | TD Date | | | | |
| Jobs | | | | | | | | | | | | | | | | |
| Responsible Grp 2 | | | | Responsible Grp 3 | | | | Job Type | | Start Date | | | End Date | | Job Status | |
| DRL ENG - JOHN GARZA | | | | AREA TEAM 4 | | | | ODR | | 11/13/2022 06:00 | | | | | IN PROGRESS | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | | | | | | | |
| Type | | Subtype | | | | Date | | Note | | | | | | | | |
| MILESTONE | | ESTIMATED PAD RELEASE | | | | 2/5/2023 | | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | | | | |
| Daily Operations | | | | | | | | | | | | | | | | |
| Footage/Meterage (ft) 0.00 | | | Drilling Hours | | % Rotating Time | | End Depth (ftKB) 2,014.0 | | Target Depth (ftKB) 19,534.0 | | Daily Field Est Total \$160,102.49 | | | Cum Field Est To Date \$692,432.56 | | |
| 24 HR ROP (ft/hr) | | Circulating Hours | | % Sliding Time | | End Depth (TVD) (ftKB) 2,013.0 | | Target Depth Depth (TVD) (ftKB) 8,983.0 | | Daily Mud Field Est Total \$ | | | Cum Mud Field Est \$ | | Total AFE + Sup \$3,388,321.35 | |
| Daily Goal Description DRILLED FEET | | | | Daily Goal - Last 24 0.0 | | | | Daily Goal - Next 24 4,000.0 | | | | Goal Comments Goal Met | | | | |
| Backbuild No | | Lateral Inclination | | Last Casing String SURFACE, 1,994.7ftKB | | | | | | Next Casing String PROPOSED INTERMEDIATE, 6,861.0ftKB | | | | | | |
| Avg Connection Gas 0.00 | | | Avg Trip Gas 0.00 | | Avg Background Gas 0.00 | | | Max Connection Gas 0.00 | | | Max Trip Gas 0.00 | | | Max Drill Gas 0.00 | | |
| Operations Summary | | | | | | | | | | | | | | | | |
| Skid Rig F/University 6-48E 105H, N/U BOP & Perform Shell Test, Install WB, P/U Intermediate BHA, TIH T/Float Collar | | | | | | | | | | | | | | | | |
| Operations Next Report Period | | | | | | | | | | | | | | | | |
| Drill Out Shoe Track + 10' New Formation, Circ, Perform 12.5 ppg FIT, Drill Int Section | | | | | | | | | | | | | | | | |
| Operations At Report Time | | | | | | | | | | | | | | | | |
| Drill Out Float Equipment and Shoe | | | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | | | |
| No incidents reported, No spills recorded. | | | | | | | | | | | | | | | | |
| Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 0%, Curve- 0%, Prod Lat- 0% | | | | | | | | | | | | | | | | |
| Time Log | | | | | | | | | | | | | | | | |
| Start Time | | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | | | Start Depth (ftKB) | | End Depth (ftKB) | | Prob Hrs | Prob Ref # | |
| 01:30 | | 0.25 | 01:45 | MOB, RIG UP | SFTY | NORMAL | PJSM for Skidding Rig | | | 2,014.0 | | 2,014.0 | | | | |
| 01:45 | | 0.5 | 02:15 | MOB, RIG UP | SKID | NORMAL | Walk rig F/University 6-48E 105H well. | | | 2,014.0 | | 2,014.0 | | | | |
| 02:15 | | 0.25 | 02:30 | MOB, RIG UP | NU_BOPE | NORMAL | Remove TA cap and N/U BOP | | | 2,014.0 | | 2,014.0 | | | | |
| 02:30 | | 0.25 | 02:45 | MOB, RIG UP | RU MIRU | NORMAL | Rig up standpipe, and choke lines, and R/U flowline. | | | 2,014.0 | | 2,014.0 | | | | |
| 02:45 | | 0.5 | 03:15 | MOB, RIG UP | CONC_BOPE | NORMAL | Perform SHELL test on BOP 250-5,000 psi for 30 minutes. | | | 2,014.0 | | 2,014.0 | | | | |
| 03:15 | | 0.25 | 03:30 | MOB, RIG UP | WRBSH | NORMAL | M/U wearbushing retrieval tool and set wearbushing in wellhead. | | | 2,014.0 | | 2,014.0 | | | | |
| 03:30 | | 0.25 | 03:45 | MOB, RIG UP | SFTY | NORMAL | Hold PJSM with all personnel on picking up directional components. | | | 2,014.0 | | 2,014.0 | | | | |
| 03:45 | | 0.5 | 04:15 | MOB, RIG UP | PU_DIR | NORMAL | P/U directional components as per Baker directional. | | | 2,014.0 | | 2,014.0 | | | | |
| 04:15 | | 0.75 | 05:00 | MOB, RIG UP | TIH_ELEV | NORMAL | TIH w/ 8" DCs and HWDP F/110 T/1,400' | | | 2,014.0 | | 2,014.0 | | | | |
| 05:00 | | 0.5 | 05:30 | MOB, RIG UP | HDL_ROT HD | NORMAL | Install Rotating Head and Remove Trip Nipple | | | 2,014.0 | | 2,014.0 | | | | |
| 05:30 | | 0.5 | 06:00 | MOB, RIG UP | TIH_ELEV | NORMAL | TIH F/1,400 T/1,950 | | | 2,014.0 | | 2,014.0 | | | | |
| Drill Strings | | | | | | | | | | | | | | | | |
| BHA #2 , INTERMEDIATE | | | | | | | | | | | | | | | | |
| Bit Run 2 | | | | Drill Bit 12 1/4, XS716, 1886 | | | | | | Bit Type PDC | | | Make ULTERRA | | | |
| Nozzles (1/32") 11/11/11/12/12/12/12/12/12 | | | | Bit Total Fluid Area (nozzles) (in²) 1.05 | | | IADC Bit Dull ----- | | | Hours Drilled By Bit (hr) | | | Depth Drilled By Bit (ft) | | | |
| BHA Drilling Time (hr) | | | | BHA Depth Drilled (ft) | | | BHA ROP (ft/hr) | | | Depth In (ftKB) | | | Depth Out (ftKB) | | | |
| Drill String Components | | | | | | | | | | | | | | | | |
| Jts | Item Des | | | | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | | Make | | | | |
| 2 | HWDP | | | | 5 | 2.88 | 60.96 | 1,390.22 | 3,169.9 | 45 | | RIG | | | | |

| | | | | | | | | | | | | | | | |
|----------------------------|----------------------------|------------------|--------------------------|--------------------------------------|-------------------------|----------------------|--|---------------------------|------------------------------|---------------------------|------------|------------------------|---------|-----------------------|-----------------------|
| 1 | DRILLING JARS - HYDRAULIC | 6 7/8 | 2.75 | 30.83 | 1,329.26 | | | 42 | WEATHERFORD | | | | | | |
| 27 | HWDP | 5 | 2.88 | 811.49 | 1,298.43 | 42,197.5 | | 42 | RIG | | | | | | |
| 1 | SUB - XO | 7 7/8 | 2.75 | 3.20 | 486.94 | | | 0 | RIG | | | | | | |
| 12 | DRILL COLLAR - SPIRALED | 8.06 | 2.88 | 364.57 | 483.74 | | | 0 | RIG | | | | | | |
| 1 | SUB - XO | 8 | 3.25 | 3.45 | 119.17 | | | 0 | DRILLING TOOLS INTERNATIONAL | | | | | | |
| 1 | SUB - FILTER | 8 1/4 | 3.25 | 3.73 | 115.72 | | | 0 | GE/BAKER HUGHES | | | | | | |
| 1 | DRILL COLLAR - NON MAG | 8 | 3.25 | 28.90 | 111.99 | | | 0 | GE/BAKER HUGHES | | | | | | |
| 1 | MWD TOOL - NON-RETRIEVABLE | 8 | 3.25 | 35.92 | 83.09 | | | 0 | GE/BAKER HUGHES | | | | | | |
| 1 | STABILIZER | 8 1/4 | 2.75 | 7.53 | 47.17 | | | 0 | DRILLING TOOLS INTERNATIONAL | | | | | | |
| 1 | MOTOR - STABILIZER SLEEVE | 8 1/4 | 3.25 | 38.29 | 39.64 | | | 0 | PHOENIX | | | | | | |
| Mud Motors | | | | | | | | | | | | | | | |
| SN | | Bend Angle | | Bearing Type | | Lobe Config | | # Stages | | Lwr Defin Type | | Bit To Bend | | | |
| PHX900084 | | 1.83 | | NOT SEALED | | 7:8 | | 7 | | | | 6.78 | | | |
| Sensors | | | | | | | | | | | | | | | |
| Sensor Type | | | Sensor-Bit (ft) | | | | Note | | | | | | | | |
| GAMMA | | | 61.78 | | | | | | | | | | | | |
| DIRECTIONAL | | | 65.18 | | | | | | | | | | | | |
| Hydraulic Calculations | | | | | | | | | | | | | | | |
| Dens Mud (lb/gal) | | ECD End (lb/gal) | Bit Hydraulic Power (hp) | | HP/Area (hp/in²) | Jet Vel (ft/s) | Bit dP (psi) | Min Open Hole AV (ft/min) | | Max Open Hole AV (ft/min) | | Vol DrillString (bbl) | | Vol Bit to Shoe (bbl) | Vol Shoe to Top (bbl) |
| Last BOP Test | | | | | | | | | | | | | | | |
| Date | | | Test Type | | Item Tested | | | | Next Test Date | | | Com | | | |
| 12/18/2022 03:15 | | | BOP | | BOP'S, 12/18/2022 01:30 | | | | 1/3/2023 03:15 | | | Shell Test | | | |
| Casing Pressure Test | | | | | | | | | | | | | | | |
| Test Type | | Test Subtype | | Date | | Item Tested | | | Failed? | | Time (min) | | P (psi) | | |
| CASING | | STANDARD | | 11/17/2022 17:30 | | SURFACE, 1,994.7ftKB | | | No | | 30.00 | | 1,000.0 | | |
| Kick Offs & Key Depths | | | | | | | | | | | | | | | |
| Date | | Type | | Top Depth (ftKB) | | | | Depth Top (TVD) (ftKB) | | | | | | | |
| No Data | | | | | | | | | | | | | | | |
| Casing Strings | | | | | | | | | | | | | | | |
| Description | | Set Depth (ftKB) | | Set Depth (TVD) (ftKB) | | OD (in) | Grade | Wt/Len (lb/ft) | | Top Thread | | P LeakOff (psi) | | | |
| CONDUCTOR | | 105.0 | | 105.0 | | 20 | H40 | 78.67 | | | | | | | |
| SURFACE | | 1,994.7 | | 1,993.7 | | 13 3/8 | J55 | 54.50 | | BTC | | | | | |
| Gas Emissions - Flare | | | | | | | | | | | | | | | |
| Type | | | Method | | Dur (Min) | | | Amount | | Units | | Com | | | |
| No Data | | | | | | | | | | | | | | | |
| Job Supply Amounts | | | | | | | | | | | | | | | |
| Supply Item Des | | Type | Unit Label | Received | Consumed | Returned | Note | | | Cum On Loc | | Cum Consumed | | | |
| DIESEL | | MUD | GAL | 19567 | | | Transferred from' UNIVERSITY 6-48E 105H' | | | 19,567 | | 0 | | | |
| DIESEL | | FUEL | GAL | 13055 | | | Transferred from' UNIVERSITY 6-48E 105H' | | | 13,055 | | 1149 | | | |
| WATER | | FRESH | BBL | 0 | | | Transferred from' UNIVERSITY 6-48E 105H' | | | 0 | | 7417 | | | |
| DIESEL | | FUEL | GAL | 16591 | | | Transferred from' UNIVERSITY 6-48E 105H' | | | 16,591 | | 0 | | | |
| Mud Additive Amounts | | | | | | | | | | | | | | | |
| Des | | Type | | Units | | Rec | Consumed | | | On Loc | | Cum Cons | | | |
| Pump Operations | | | | | | | | | | | | | | | |
| Pump # | | Make | | Model | Liner Size (in) | | Stroke (in) | | Vol/Stk (bbl/stk) | | | P Max (psi) | | | |
| 1 | | BOMCO | | F1600 | 5 1/2 | | 12.00 | | 0.088 | | | 7,500.0 | | | |
| 2 | | BOMCO | | F1600 | 5 1/2 | | 12.00 | | 0.088 | | | 7,500.0 | | | |
| 3 | | BOMCO | | F1600 | 5 1/2 | | 12.00 | | 0.088 | | | 7,500.0 | | | |
| Pump Checks | | | | | | | | | | | | | | | |
| Pump # | | Depth (ftKB) | | | Time | P (psi) | Strokes (spm) | | | Q Flow (gpm) | | Eff (%) | | | |
| No Data | | | | | | | | | | | | | | | |
| Deviation Surveys | | | | | | | | | | | | | | | |
| Date | | | | Description | | | | Job | | | | | | | |
| 11/13/2022 08:30 | | | | AS DRILL SURVEY | | | | ODR, 11/13/2022 06:00 | | | | | | | |
| Formations | | | | | | | | | | | | | | | |
| Formation Name | | | | Prog Top Override (TVD SS) (ft(elv)) | | | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | | Final Top MD (ftKB) | | Final Top (TVD) (ftKB) | | | |
| 251_0_RSRL | | | | 888.0 | | | | 2,105.0 | | | | | | | |
| 251_0_SLDO | | | | 840.0 | | | | 2,153.0 | | | | | | | |
| 255_0_TNSL_TOP_DOL | | | | -90.0 | | | | 3,083.0 | | 3,070.0 | | | | | |
| 256_0_YATES | | | | -132.0 | | | | 3,125.0 | | 3,152.0 | | | | | |
| 257_0_SEVEN RIVERS | | | | -434.0 | | | | 3,427.0 | | 3,425.0 | | | | | |
| 258_0_QUEEN | | | | -1,102.0 | | | | 4,095.0 | | 4,101.0 | | | | | |
| 259_0_GRAYBURG | | | | -1,611.0 | | | | 4,604.0 | | 4,563.0 | | | | | |
| 261_0_SAN ANDRES | | | | -1,802.0 | | | | 4,795.0 | | 4,740.0 | | | | | |
| 263_5_Top_Cherry_Canyon | | | | -2,697.0 | | | | 5,690.0 | | 5,684.0 | | | | | |
| 264_5_TOP_BRUSHY_CANYON | | | | -3,594.0 | | | | 6,587.0 | | | | | | | |
| 265_0_CLEARFORK/POP | | | | -3,815.0 | | | | 6,808.0 | | 6,851.0 | | | | | |
| ICP1 | | | | -3,865.0 | | | | 6,858.0 | | | | | | | |
| 267_0_SPBY_U_A1/267_0_SPBY | | | | -5,443.0 | | | | 8,436.0 | | 8,493.0 | | | | | |
| ALT_ICP2 | | | | -5,493.0 | | | | 8,486.0 | | | | | | | |

| | | | | | |
|---------------------------------------|----------|--|----------|---------|--|
| 267_5_SPBY_M_A1 | -5,755.0 | | 8,748.0 | 8,807.0 | |
| 268_5_SPBY_L_A1 | -5,987.0 | | 8,980.0 | 9,026.0 | |
| 268_5_SPBY_L_A2 | -6,023.0 | | 9,016.0 | 9,077.0 | |
| 268_5_SPBY_L_A3 | -6,108.0 | | 9,101.0 | 9,155.0 | |
| 268_6_SPBY_L_B1/JO MILL | -6,262.0 | | 9,255.0 | 9,355.0 | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | -6,321.0 | | 9,314.0 | 9,409.0 | |
| ILP | -5,920.0 | | 8,913.0 | | |
| PBHL/TD | -5,990.0 | | 8,983.0 | | |
| 269_0_DEAN | -6,633.0 | | 9,626.0 | | |
| 270_0_WFMP_A1 | -6,802.0 | | 9,795.0 | | |
| 275_0_WFMP_B1 | -7,009.0 | | 10,002.0 | | |
| 276_0_WFMP_B2 | -7,031.0 | | 10,024.0 | | |
| 278_0_WFMP_B3 | -7,085.0 | | 10,078.0 | | |
| 280_0_WFMP_C1 | -7,175.0 | | 10,168.0 | | |
| 282_0_WFMP_C2 | -7,275.0 | | 10,268.0 | | |
| 292_0_WFMP_D | -7,701.0 | | 10,694.0 | | |
| 304_0_STRAWN | -8,065.0 | | 11,058.0 | | |

| Daily Contacts | | | | |
|---|------------------------------|--------------|--------------|---------------------------|
| Job Contact | Title | Office | Mobile | Email |
| JACKSON, AUSTIN, ENGINEER | ENGINEER | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM |
| COX, BRYAN, ENGINEER | ENGINEER | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM |
| KUMAR, DEV, ENGINEER | ENGINEER | | 469-865-6956 | DEV.KUMAR@PXD.COM |
| RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT | AREA DRILLING SUPERINTENDENT | 432-571-2557 | 432-557-8128 | KEN.RICHARDSON@PXD.COM |
| GARZA, JOHN, ENGINEER | ENGINEER | | 469-286-7746 | JOHN.GARZA@PXD.COM |
| PARSELL, VIC, SUPERINTENDENT | SUPERINTENDENT | | 432-301-2539 | VIC.PARSELL@PXD.COM |
| BLEDSON, WILL, SUPERINTENDENT | SUPERINTENDENT | | 361-318-5836 | WILL.BLEDSON@PXD.COM |
| MYERS, RUSSELL, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 432-301-6786 | RUSSELL.MYERS@PXD.COM |
| DAFFRON, MIKE, SUPERINTENDENT | SUPERINTENDENT | 432-385-9242 | 318-243-5902 | MIKE.DAFFRON@PXD.COM |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM |
| EASLEY, JOSH, FIELD ENGINEER | FIELD ENGINEER | | 432-254-9679 | JOSHUA.EASLEY@PXD.COM |
| MUNGER CASEY, MUD ENGINEER | MUD ENGINEER | | 479-234-6620 | CASEY.MUNGER@PXD.COM |
| RIG-ENSIGN 125, RIG PHONE | RIG PHONE | 432-848-5232 | 432-894-8995 | DL-ENSIGN125@PXD.COM |

ENSIGN 125

Accept:12/18/2022

Release:

Days Since LTI:865.00

Days Since RI:865.00

Daily Drilling Report

PERMIAN ASSET TEAM

Job:ODR

Report Date:12/19/2022

Report #:4

DFS:3

AFE #:9023601

Total AFE + Sup:\$3,388,321.35

Daily Field Est. (Cost):\$90,562.88

| | | | | | | | | | | |
|--|------------------------|--|--|---|---------------------------------|---|--------------------------------------|---------------------------------|---------------------------------------|------------|
| API/UWI 42--003-48666-0000 | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | |
| SSN ID00034057 | Property Sub | KB-Grd (ft) 25.00 | | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | TD Date | |
| Jobs | | | | | | | | | | |
| Responsible Grp 2 | | | Responsible Grp 3 | | Job Type | Start Date | | End Date | Job Status | |
| DRL ENG - JOHN GARZA | | | AREA TEAM 4 | | ODR | 11/13/2022 06:00 | | | IN PROGRESS | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | |
| Type | Subtype | | Date | Note | | | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | 2/5/2023 | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | | |
| Daily Operations | | | | | | | | | | |
| Footage/Meterage (ft) 3,167.00 | | Drilling Hours 22.00 | % Rotating Time 100.00 | End Depth (ftKB) 5,181.0 | Target Depth (ftKB) 19,534.0 | | Daily Field Est Total \$90,562.88 | | Cum Field Est To Date \$782,995.44 | |
| 24 HR ROP (ft/hr) 144.0 | Circulating Hours | % Sliding Time 0.00 | End Depth (TVD) (ftKB) 5,176.3 | Target Depth Depth (TVD) (ftKB) 8,983.0 | | Daily Mud Field Est Total \$1,881.52 | | Cum Mud Field Est \$1,881.52 | Total AFE + Sup \$3,388,321.35 | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 4,000.0 | | Daily Goal - Next 24 1,680.0 | | | Goal Comments Goal Not Met | | |
| Backbuild No | Lateral Inclination | Last Casing String SURFACE, 1,994.7ftKB | | | | Next Casing String PROPOSED INTERMEDIATE, 6,861.0ftKB | | | | |
| Avg Connection Gas 2.00 | | Avg Trip Gas 0.00 | Avg Background Gas 2.00 | | Max Connection Gas 3.00 | | Max Trip Gas 0.00 | | Max Drill Gas 4.00 | |
| Operations Summary TIH T/FC, Drill Out Shoe Track + 10' New Formation, Circ, Perform 12.5 ppg FIT, Drill Int Section T/5,181' (63.65% Rotating, 36.35% Sliding, Inc - 0.33°, Azm - 312.41°, 2.76' Ahead, 1.98' Right) | | | | | | | | | | |
| Operations Next Report Period Continue Drilling INT 1 T/6,861' +/- (TD), Circulate 2x Caliper Sweeps, TOO, R/U Casing Crew, RIH w/ 9-5/8" INT 1 Casing | | | | | | | | | | |
| Operations At Report Time Drilling INT 1 @ 5,181' | | | | | | | | | | |
| Remarks No incidents reported, No spills recorded. Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 66%, Curve- 0%, Prod Lat- 0% | | | | | | | | | | |
| Time Log | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # |
| 06:00 | 0.5 | 06:30 | INT, PRE DRL | CIRC | NORMAL | Circulate, Test MWD tool | 2,014.0 | 2,014.0 | | |
| 06:30 | 0.25 | 06:45 | INT, PRE DRL | TIH_ELEV | NORMAL | TIH F/1400' T/1994' with proper displacement | 2,014.0 | 2,014.0 | | |
| 06:45 | 1.25 | 08:00 | INT, PRE DRL | DRL_OUT | NORMAL | Drill out cement & shoe track with 30 rpm,550 gpm,15 wob, FC @ 1950' - Shoe @ 1994' | 2,014.0 | 2,014.0 | | |
| 08:00 | 0.25 | 08:15 | INT, PRE DRL | DRL | NORMAL | Drill 10' of new formation F/2014' T/ 2024' | 2,014.0 | 2,024.0 | | |
| 08:15 | 0.5 | 08:45 | INT, PRE DRL | FIT | NORMAL | Perform FIT to 12.5 PPG equivalent | 2,024.0 | 2,024.0 | | |
| 08:45 | 1.75 | 10:30 | INT, DRL | DRL | NORMAL | Drill Intermediate 1 F/ 2,024' T/2,160' (136' @ 77 FPH) 700 GPMs, 50 RPM, 35K WOB ***Building a 6 degree tangent and dropping back to vertical* | 2,024.0 | 2,160.0 | | |
| 10:30 | 0.5 | 11:00 | INT, DRL | RIG_SVC | NORMAL | Rig service, change rotating head gasket | 2,160.0 | 2,160.0 | | |
| 11:00 | 17.5 | 04:30 | INT, DRL | DRL | NORMAL | Drill Intermediate 1 F/ 2,160' T/5,002' (2,842' @ 162.4 FPH) 900 GPMs, 60 RPM, 50K WOB | 2,160.0 | 5,002.0 | | |
| 04:30 | 0.5 | 05:00 | INT, DRL | RIG_SVC | NORMAL | Rig service | 5,002.0 | 5,002.0 | | |
| 05:00 | 1 | 06:00 | INT, DRL | DRL | NORMAL | Drill Intermediate 1 F/5002' T/5,181' (179' @ 179 FPH) 900 GPMs, 60 RPM, 50K WOB | 5,002.0 | 5,181.0 | | |
| Drill Strings | | | | | | | | | | |
| BHA #2 , INTERMEDIATE | | | | | | | | | | |
| Bit Run 2 | | | Drill Bit 12 1/4, XS716, 1886 | | | Bit Type PDC | | Make ULTERRA | | |
| Nozzles (1/32") 11/11/11/12/12/12/12/12/12 | | | Bit Total Fluid Area (nozzles) (in²) 1.05 | | IADC Bit Dull ----- | | Hours Drilled By Bit (hr) 22.00 | | Depth Drilled By Bit (ft) 3,167.00 | |
| BHA Drilling Time (hr) 22.00 | | | BHA Depth Drilled (ft) 3,167.00 | | BHA ROP (ft/hr) 144.0 | | Depth In (ftKB) 2,014.0 | | Depth Out (ftKB) 5,181.0 | |
| Drill String Components | | | | | | | | | | |
| Jts | Item Des | | | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | Make |

| | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|--------------------|-------------------------|--------------------------|-------------------------|-------------------------|----------------------|------------------------------|-----------------|--------------------------|------------------------|---------------------------|-------------------------|---------------------------|---------------|-----------------------|---------|-----------------------|--|-----------------------|--|
| 84 | DRILL PIPE | 5 | 4.28 | 3,790.78 | 5,181.00 | 73,920.2 | 119 | RIG | | | | | | | | | | | | | |
| 2 | HWDP | 5 | 2.88 | 60.96 | 1,390.22 | 3,169.9 | 45 | RIG | | | | | | | | | | | | | |
| 1 | DRILLING JARS - HYDRAULIC | 6 7/8 | 2.75 | 30.83 | 1,329.26 | | 42 | WEATHERFORD | | | | | | | | | | | | | |
| 27 | HWDP | 5 | 2.88 | 811.49 | 1,298.43 | 42,197.5 | 42 | RIG | | | | | | | | | | | | | |
| 1 | SUB - XO | 7 7/8 | 2.75 | 3.20 | 486.94 | | 0 | RIG | | | | | | | | | | | | | |
| 12 | DRILL COLLAR - SPIRALED | 8.06 | 2.88 | 364.57 | 483.74 | | 0 | RIG | | | | | | | | | | | | | |
| 1 | SUB - XO | 8 | 3.25 | 3.45 | 119.17 | | 0 | DRILLING TOOLS INTERNATIONAL | | | | | | | | | | | | | |
| 1 | SUB - FILTER | 8 1/4 | 3.25 | 3.73 | 115.72 | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | | |
| 1 | DRILL COLLAR - NON MAG | 8 | 3.25 | 28.90 | 111.99 | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | | |
| 1 | MWD TOOL - NON-RETRIEVABLE | 8 | 3.25 | 35.92 | 83.09 | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | | |
| 1 | STABILIZER | 8 1/4 | 2.75 | 7.53 | 47.17 | | 0 | DRILLING TOOLS INTERNATIONAL | | | | | | | | | | | | | |
| 1 | MOTOR - STABILIZER SLEEVE | 8 1/4 | 3.25 | 38.29 | 39.64 | | 0 | PHOENIX | | | | | | | | | | | | | |
| Mud Motors | | | | | | | | | | | | | | | | | | | | | |
| SN | | Bend Angle | | Bearing Type | | Lobe Config | | # Stages | Lwr Defln Type | | Bit To Bend | | | | | | | | | | |
| PHX900084 | | 1.83 | | NOT SEALED | | 7:8 | | 7 | | | | 6.78 | | | | | | | | | |
| Sensors | | | | | | | | | | | | | | | | | | | | | |
| Sensor Type | | | Sensor-Bit (ft) | | | | Note | | | | | | | | | | | | | | |
| GAMMA | | | 61.78 | | | | | | | | | | | | | | | | | | |
| DIRECTIONAL | | | 65.18 | | | | | | | | | | | | | | | | | | |
| Drilling Parameters | | | | | | | | | | | | | | | | | | | | | |
| Start Time | End Time | Start Depth (ftKB) | Int Depth (ft) | Int ROP (ft/hr) | WOB (1000lbf) | RPM | dP (SPP) (psi) | Q Flow (gpm) | SPP (psi) | ROP Average (ft/hr) | Drill Str Wt (1000lbf) | PU Str Wt (1000lbf) | SO Str Wt (1000lbf) | Off-Btm Str Wt (1000lbf) | Drill Tq | Off Btm Tq | TFO (°) | | | | |
| 08:00 | 06:00 | 2,014.0 | 3,167.00 | 144.0 | 35 | 59 | 1,018.2 | 943 | 4,919.0 | 276.0 | 191 | 191 | 191 | 191 | 19.0 | 19.0 | | | | | |
| Hydraulic Calculations | | | | | | | | | | | | | | | | | | | | | |
| Dens Mud (lb/gal) | | ECD End (lb/gal) | | Bit Hydraulic Power (hp) | | HP/Area (hp/in²) | | Jet Vel (ft/s) | | Bit dP (psi) | | Min Open Hole AV (ft/min) | | Max Open Hole AV (ft/min) | | Vol DrillString (bbl) | | Vol Bit to Shoe (bbl) | | Vol Shoe to Top (bbl) | |
| 10.80 | | 10.87 | | 445.5 | | 3.8 | | 287.7 | | 809.8 | | 26.4 | | 281.9 | | 78.83 | | 370.27 | | 257.46 | |
| Mud Checks | | | | | | | | | | | | | | | | | | | | | |
| Time | | | Mud Company | | | | Type | | Depth (ftKB) | | Density (lb/gal) | | Funnel Viscosity (s/qt) | | | T Flowline (° F) | | | | | |
| 12/18/2022 16:00 | | | PIONEER DRILLING FLUIDS | | | | WATER BASE | | 3,831.0 | | 10.80 | | 34 | | | 0.0 | | | | | |
| pV (cP) | | YP (lbf/100ft²) | | Vis 3rpm | | Vis 6rpm | | Filtrate (mL/30min) | | HTHP Filtrate (mL/30min) | | | HTHP Temperature (° F) | | | HTHP Pressure (psi) | | | | | |
| 6.0 | | 12.000 | | 4 | | 5 | | 11.0 | | 0.0 | | | 0.0 | | | 0.0 | | | | | |
| Solids (%) | | | Low Gravity Solids (%) | | | | | Sand (%) | | MBT (lb/bbl) | | | Pm (mL/mL) | | Pf (mL/mL) | | | | | | |
| 18.0 | | | 10.8 | | | | | 0.3 | | 2.5 | | | 0.400 | | 0.0 | | | | | | |
| Chlorides (mg/L) | | | Calcium (mg/L) | | | CaCl (ppm) | | | Oil Water Ratio | | | Electric Stab (V) | | | Lime (lb/bbl) | | pH | | | | |
| 164,000 | | | 480.000 | | | 0 | | | 0/100 | | | 0.0 | | | 0.1 | | 9.0 | | | | |
| Gel 10 sec (lbf/100ft²) | | | | | | Gel 10 min (lbf/100ft²) | | | | | | Gel 30 min (lbf/100ft²) | | | | | | | | | |
| 3.000 | | | | | | 7.000 | | | | | | 8.000 | | | | | | | | | |
| Comment | | | | | | | | | | | | | | | | | | | | | |
| Recommended Fluid Treatment: Maintain 10.8 ppg MW w/Dilution of prebuilt WBM. Treatment: 1 ppb Soda Ash, 1/4 ppb Xan, 1/2 ppb Lime, 1 ppb Pac LV. 1 ppb Soltex. | | | | | | | | | | | | | | | | | | | | | |
| Drilling Fluid Activity Last 24 Hrs: Dressed shakers with API 100's. Displace well with 10.8 ppg WBM. Prebuild 10.0 ppg WBM in premix for use as dilution throughout interval. Received all chemical and volume F/University 6-48 E 105H. | | | | | | | | | | | | | | | | | | | | | |
| Rig Activity Last 24 Hours: Finish skidding rig. P/U BHA #1. TIH T/1,994' Tag and drill Float Collar, Shoe and 10' of new formation. Perform FIT T/12.5 EMW. Drill F/2,024' T/3,831' at time of report. Drilling parameters: ROP- 409', WOB-38K, Rotary- 60 RPM, Bit- 227 RPM, Torque- 19.0 KLB-Ft, Diff- 921 PSI. P/U 225k, S/O 155k, ROT 170K. Lithology @ 3,740' 90% SA, 10% SD. | | | | | | | | | | | | | | | | | | | | | |
| Last BOP Test | | | | | | | | | | | | | | | | | | | | | |
| Date | | | Test Type | | Item Tested | | | | Next Test Date | | | | Com | | | | | | | | |
| 12/18/2022 03:15 | | | BOP | | BOP'S, 12/18/2022 01:30 | | | | 1/3/2023 03:15 | | | | Shell Test | | | | | | | | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | | | | | Depth (ftKB) | | | | Dens Fluid (lb/gal) | | | | | | | | | | | |
| FORMATION INTEGRITY | | | | | | 1,994.0 | | | | 12.50 | | | | | | | | | | | |
| Casing Pressure Test | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | Test Subtype | | Date | | | Item Tested | | | Failed? | | Time (min) | | P (psi) | | | | | | | |
| CASING | | STANDARD | | 11/17/2022 17:30 | | | SURFACE, 1,994.7ftKB | | | No | | 30.00 | | 1,000.0 | | | | | | | |
| Kick Offs & Key Depths | | | | | | | | | | | | | | | | | | | | | |
| Date | | Type | | Top Depth (ftKB) | | | | Depth Top (TVD) (ftKB) | | | | | | | | | | | | | |
| No Data | | | | | | | | | | | | | | | | | | | | | |
| Casing Strings | | | | | | | | | | | | | | | | | | | | | |
| Description | | Set Depth (ftKB) | | | Set Depth (TVD) (ftKB) | | | OD (in) | | Grade | | Wt/Len (lb/ft) | | Top Thread | | P LeakOff (psi) | | | | | |
| CONDUCTOR | | 105.0 | | | 105.0 | | | 20 | | H40 | | 78.67 | | | | | | | | | |
| SURFACE | | 1,994.7 | | | 1,993.7 | | | 13 3/8 | | J55 | | 54.50 | | BTC | | 1,294.5 | | | | | |
| Gas Emissions - Flare | | | | | | | | | | | | | | | | | | | | | |
| Type | | | Method | | | Dur (Min) | | | Amount | | | Units | | Com | | | | | | | |
| No Data | | | | | | | | | | | | | | | | | | | | | |
| Job Supply Amounts | | | | | | | | | | | | | | | | | | | | | |
| Supply Item Des | | Type | Unit Label | | Received | | Consumed | | Returned | | Note | | Cum On Loc | | Cum Consumed | | | | | | |
| DIESEL | | FUEL | GAL | | | | 2986 | | | | | | 10,069 | | 4135 | | | | | | |
| Mud Additive Amounts | | | | | | | | | | | | | | | | | | | | | |
| Des | | | Type | | | | Units | | Rec | Consumed | | On Loc | | Cum Cons | | | | | | | |

| | | | | | | | | | |
|--|--------------|------------------|--------------------------------------|--------------------|-----------------------|---------------------|------------------------|-------------|---|
| PAC LV | | | FILTRATE CONTROL | | SACK | | 8 | 46.0 | 8 |
| SODA ASH | | | ALKALINITY CONTROL | | SACK | | 8 | 185.0 | 8 |
| WO DEFOAMER A | | | DEFOAMER | | GAL | | 4 | 4.0 | 4 |
| LIME | | | ALKALINITY CONTROL | | SACK | | 4 | 226.0 | 4 |
| SOLTEX | | | FILTRATE CONTROL | | LB | | 8 | 60.0 | 8 |
| Pump Operations | | | | | | | | | |
| Pump # | Make | Model | Liner Size (in) | Stroke (in) | Vol/Stk (bbl/stk) | | | P Max (psi) | |
| 1 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | | | 7,500.0 | |
| 2 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | | | 7,500.0 | |
| 3 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | | | 7,500.0 | |
| Pump Checks | | | | | | | | | |
| Pump # | Depth (ftKB) | Time | | P (psi) | Strokes (spm) | Q Flow (gpm) | | Eff (%) | |
| 2 | 2,709.0 | 12/19/2022 04:43 | | 255.0 | 30 | 106 | | 95 | |
| 2 | 2,709.0 | 12/19/2022 04:43 | | 225.0 | 20 | 70 | | 95 | |
| 2 | 2,709.0 | 12/19/2022 04:43 | | 300.0 | 40 | 141 | | 95 | |
| 3 | 2,709.0 | 12/19/2022 04:43 | | 310.0 | 40 | 141 | | 95 | |
| 3 | 2,709.0 | 12/19/2022 04:43 | | 255.0 | 30 | 106 | | 95 | |
| 3 | 2,709.0 | 12/19/2022 04:43 | | 220.0 | 20 | 70 | | 95 | |
| 1 | 2,709.0 | 12/19/2022 04:43 | | 220.0 | 20 | 70 | | 95 | |
| 1 | 2,709.0 | 12/19/2022 04:43 | | 250.0 | 30 | 106 | | 95 | |
| 1 | 2,709.0 | 12/19/2022 04:43 | | 295.0 | 40 | 141 | | 95 | |
| Deviation Surveys | | | | | | | | | |
| Date | | Description | | | Job | | | | |
| 11/13/2022 08:30 | | AS DRILL SURVEY | | | ODR, 11/13/2022 06:00 | | | | |
| Survey Data - All surveys for 24 hr reporting period | | | | | | | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | VS (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | | |
| 2,045.00 | 0.45 | 172.74 | 2,044.01 | 52.24 | -51.27 | 10.34 | 0.85 | | |
| 2,135.00 | 0.93 | 178.00 | 2,134.00 | 53.30 | -52.35 | 10.41 | 0.54 | | |
| 2,225.00 | 2.26 | 177.00 | 2,223.96 | 55.76 | -54.85 | 10.52 | 1.48 | | |
| 2,315.00 | 2.94 | 170.05 | 2,313.87 | 59.80 | -58.90 | 11.02 | 0.83 | | |
| 2,406.00 | 5.03 | 170.05 | 2,404.65 | 66.11 | -65.12 | 12.11 | 2.30 | | |
| 2,496.00 | 7.08 | 174.95 | 2,494.14 | 75.52 | -74.54 | 13.28 | 2.35 | | |
| 2,587.00 | 7.22 | 175.97 | 2,584.43 | 86.69 | -85.83 | 14.17 | 0.21 | | |
| 2,677.00 | 7.02 | 175.86 | 2,673.74 | 97.68 | -96.95 | 14.97 | 0.22 | | |
| 2,767.00 | 6.10 | 173.74 | 2,763.15 | 107.83 | -107.19 | 15.89 | 1.06 | | |
| 2,857.00 | 4.82 | 159.15 | 2,852.74 | 116.32 | -115.48 | 17.75 | 2.09 | | |
| 2,948.00 | 3.06 | 132.04 | 2,943.53 | 122.14 | -120.68 | 20.92 | 2.77 | | |
| 3,039.00 | 2.32 | 123.42 | 3,034.43 | 125.51 | -123.32 | 24.26 | 0.92 | | |
| 3,129.00 | 0.76 | 143.42 | 3,124.39 | 127.41 | -124.80 | 26.14 | 1.81 | | |
| 3,219.00 | 0.19 | 109.44 | 3,214.39 | 128.04 | -125.33 | 26.63 | 0.68 | | |
| 3,310.00 | 0.37 | 137.97 | 3,305.39 | 128.39 | -125.60 | 26.97 | 0.24 | | |
| 3,400.00 | 0.48 | 139.50 | 3,395.39 | 128.98 | -126.10 | 27.41 | 0.12 | | |
| 3,490.00 | 0.57 | 133.48 | 3,485.38 | 129.70 | -126.70 | 27.98 | 0.12 | | |
| 3,581.00 | 0.44 | 130.80 | 3,576.38 | 130.36 | -127.24 | 28.57 | 0.15 | | |
| 3,671.00 | 0.42 | 111.05 | 3,666.38 | 130.84 | -127.58 | 29.14 | 0.17 | | |
| 3,762.00 | 0.76 | 319.29 | 3,757.38 | 130.49 | -127.25 | 29.06 | 1.26 | | |
| 3,852.00 | 1.35 | 315.77 | 3,847.36 | 129.04 | -126.03 | 27.93 | 0.66 | | |
| 3,943.00 | 1.07 | 320.96 | 3,938.34 | 127.34 | -124.60 | 26.65 | 0.33 | | |
| 4,033.00 | 0.93 | 311.74 | 4,028.33 | 125.97 | -123.47 | 25.58 | 0.24 | | |
| 4,123.00 | 0.81 | 312.56 | 4,118.32 | 124.84 | -122.55 | 24.56 | 0.13 | | |
| 4,213.00 | 0.54 | 313.27 | 4,208.31 | 123.95 | -121.83 | 23.78 | 0.30 | | |
| 4,304.00 | 0.48 | 328.88 | 4,299.31 | 123.22 | -121.21 | 23.27 | 0.17 | | |
| 4,394.00 | 0.41 | 312.99 | 4,389.30 | 122.59 | -120.67 | 22.84 | 0.16 | | |
| 4,484.00 | 0.37 | 344.00 | 4,479.30 | 122.03 | -120.17 | 22.53 | 0.24 | | |
| 4,575.00 | 0.33 | 314.21 | 4,570.30 | 121.52 | -119.70 | 22.26 | 0.20 | | |
| 4,665.00 | 0.19 | 298.54 | 4,660.30 | 121.19 | -119.45 | 21.94 | 0.17 | | |
| 4,755.00 | 0.29 | 323.14 | 4,750.30 | 120.88 | -119.20 | 21.68 | 0.16 | | |
| 4,846.00 | 0.33 | 312.41 | 4,841.30 | 120.45 | -118.84 | 21.34 | 0.08 | | |
| Formations | | | | | | | | | |
| Formation Name | | | Prog Top Override (TVD SS) (ft(elv)) | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) | | |
| 263_5_Top_Cherry_Canyon | | | -2,697.0 | | 5,690.0 | 5,684.0 | | | |
| 264_5_TOP_BRUSHY_CANYON | | | -3,594.0 | | 6,587.0 | | | | |
| 265_0_CLEARFORK/POP | | | -3,815.0 | | 6,808.0 | 6,851.0 | | | |
| ICP1 | | | -3,865.0 | | 6,858.0 | | | | |
| 267_0_SPBY_U_A1/267_0_SPBY | | | -5,443.0 | | 8,436.0 | 8,493.0 | | | |
| ALT_ICP2 | | | -5,493.0 | | 8,486.0 | | | | |
| 267_5_SPBY_M_A1 | | | -5,755.0 | | 8,748.0 | 8,807.0 | | | |
| 268_5_SPBY_L_A1 | | | -5,987.0 | | 8,980.0 | 9,026.0 | | | |
| 268_5_SPBY_L_A2 | | | -6,023.0 | | 9,016.0 | 9,077.0 | | | |

| | | | | | |
|---|------------------------------|--------------|--------------|---------------------------|-------|
| 268_5_SPBY_L_A3 | -6,108.0 | | 9,101.0 | 9,155.0 | |
| 268_6_SPBY_L_B1/JO MILL | -6,262.0 | | 9,255.0 | 9,355.0 | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | -6,321.0 | | 9,314.0 | 9,409.0 | |
| ILP | -5,920.0 | | 8,913.0 | | |
| PBHL/TD | -5,990.0 | | 8,983.0 | | |
| 269_0_DEAN | -6,633.0 | | 9,626.0 | | |
| 270_0_WFMP_A1 | -6,802.0 | | 9,795.0 | | |
| 275_0_WFMP_B1 | -7,009.0 | | 10,002.0 | | |
| 276_0_WFMP_B2 | -7,031.0 | | 10,024.0 | | |
| 278_0_WFMP_B3 | -7,085.0 | | 10,078.0 | | |
| 280_0_WFMP_C1 | -7,175.0 | | 10,168.0 | | |
| 282_0_WFMP_C2 | -7,275.0 | | 10,268.0 | | |
| 292_0_WFMP_D | -7,701.0 | | 10,694.0 | | |
| 304_0_STRAWN | -8,065.0 | | 11,058.0 | | |
| Daily Contacts | | | | | |
| Job Contact | Title | Office | Mobile | Email | |
| JACKSON, AUSTIN, ENGINEER | ENGINEER | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM | |
| COX, BRYAN, ENGINEER | ENGINEER | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM | |
| KUMAR, DEV, ENGINEER | ENGINEER | | 469-865-6956 | DEV.KUMAR@PXD.COM | |
| RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT | AREA DRILLING SUPERINTENDENT | 432-571-2557 | 432-557-8128 | KEN.RICHARDSON@PXD.COM | |
| GARZA, JOHN, ENGINEER | ENGINEER | | 469-286-7746 | JOHN.GARZA@PXD.COM | |
| PARSELL, VIC, SUPERINTENDENT | SUPERINTENDENT | | 432-301-2539 | VIC.PARSELL@PXD.COM | |
| DAFFRON, MIKE, SUPERINTENDENT | SUPERINTENDENT | 432-385-9242 | 318-243-5902 | MIKE.DAFFRON@PXD.COM | |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM | |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM | |
| EASLEY, JOSH, FIELD ENGINEER | FIELD ENGINEER | | 432-254-9679 | JOSHUA.EASLEY@PXD.COM | |
| MUNGER CASEY, MUD ENGINEER | MUD ENGINEER | | 479-234-6620 | CASEY.MUNGER@PXD.COM | |
| RIG-ENSIGN 125, RIG PHONE | RIG PHONE | 432-848-5232 | 432-894-8995 | DL-ENSIGN125@PXD.COM | |
| Personnel Log | | | | | |
| Company | | | | | Count |
| PIONEER NATURAL RESOURCES USA INC | | | | | 2 |
| ENSIGN UNITED STATES DRILLING S W INC | | | | | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | | | | | 2 |
| GISLER BROTHERS LOGGING CO INC | | | | | 2 |

| | |
|-----------------|------------|
| ENSIGN 125 | |
| Accept: | 12/18/2022 |
| Release: | |
| Days Since LTI: | 866.00 |
| Days Since RI: | 866.00 |

Daily Drilling Report

| | |
|--------------------------|----------------|
| PERMIAN ASSET TEAM | |
| Job: | ODR |
| Report Date: | 12/20/2022 |
| Report #: | 5 |
| DFS: | 4 |
| AFE #: | 9023601 |
| Total AFE + Sup: | \$3,388,321.35 |
| Daily Field Est. (Cost): | \$76,890.10 |

| | | | | | | | | | | | | |
|--|---------------------------|----------------------------|--|--|------------------------------------|---|--------------------------------------|---|---------------------------|--------------------------------------|-----------------------------------|---------------------------------------|
| API/UWI 42--003-48666-0000 | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | | | |
| SSN ID00034057 | | Property Sub | KB-Grd (ft) 25.00 | | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | | TD Date | |
| Jobs | | | | | | | | | | | | |
| Responsible Grp 2 | | | Responsible Grp 3 | | | Job Type | Start Date | | End Date | Job Status | | |
| DRL ENG - JOHN GARZA | | | AREA TEAM 4 | | | ODR | 11/13/2022 06:00 | | | IN PROGRESS | | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | | | |
| Type | Subtype | | | Date | | Note | | | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | | 2/5/2023 | | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | | |
| TXRRC CALL | CEMENT INT | | | 12/19/2022 18:30 | | Diana Operator #4 | | | | | | |
| Daily Operations | | | | | | | | | | | | |
| Footage/Meterage (ft) 1,683.00 | | Drilling Hours 9.75 | | % Rotating Time 100.00 | | End Depth (ftKB) 6,864.0 | | Target Depth (ftKB) 19,534.0 | | Daily Field Est Total \$76,890.10 | | Cum Field Est To Date \$859,885.54 |
| 24 HR ROP (ft/hr) 172.6 | Circulating Hours 4.00 | | % Sliding Time 0.00 | End Depth (TVD) (ftKB) 6,859.3 | | Target Depth Depth (TVD) (ftKB) 8,983.0 | | Daily Mud Field Est Total \$6,759.54 | | Cum Mud Field Est \$8,641.06 | Total AFE + Sup \$3,388,321.35 | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 1,680.0 | | | Daily Goal - Next 24 0.0 | | | Goal Comments Goal Met | | | |
| Backbuild No | Lateral Inclination | | Last Casing String SURFACE, 1,994.7ftKB | | | | | Next Casing String INTERMEDIATE, 6,850.0ftKB | | | | |
| Avg Connection Gas 109.00 | | Avg Trip Gas 0.00 | | Avg Background Gas 89.00 | | Max Connection Gas 343.00 | | Max Trip Gas 0.00 | | Max Drill Gas 293.00 | | |
| Operations Summary Continue Drilling INT 1 T/6,864' (TD), Circulate 3x Caliper Sweeps, TOO H, R/U Casing Crew, RIH w/ 9-5/8" INT 1 Casing (100% Rotating, 0.0% Sliding, Inc - 0.35°, Azm - 69.65°, 3.84' Ahead, 3.24' Left) | | | | | | | | | | | | |
| Operations Next Report Period Continue RIH w/ 9-5/8" INT 1 Casing, Circ 1.5x Casing capacity, Cement INT 1 Casing, Set Pack-off, N/D BOP, Install TA Cap, Release Rig T/University 6-48D 103H | | | | | | | | | | | | |
| Operations At Report Time RIH w/ INT 1 Casing @ 250 | | | | | | | | | | | | |
| Remarks No incidents reported, No spills recorded. Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 100%, Curve- 0%, Prod Lat- 0% | | | | | | | | | | | | |
| Time Log | | | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # | |
| 06:00 | 4.5 | 10:30 | INT, DRL | DRL | NORMAL | Drill Intermediate 1 F/5,181' T/6,006' (825' @ 183 FPH) 950 GPMs, 50 RPM, 50K WOB, Diff 1050, TQ 22K | | 5,181.0 | 6,006.0 | | | |
| 10:30 | 0.5 | 11:00 | INT, DRL | RIG_SVC | NORMAL | Rig Service- C/O swivel packing | | 6,006.0 | 6,006.0 | | | |
| 11:00 | 5.5 | 16:30 | INT, DRL | DRL | NORMAL | Drill Intermediate 1 F/6,006' T/6,864' (825' @ 156 FPH) 950 GPMs, 50 RPM, 50K WOB, Diff 1050, TQ 22K | | 6,006.0 | 6,864.0 | | | |
| 16:30 | 3.25 | 19:45 | INT, POST DRL | CIRC | NORMAL | Pump 3 high vis sweeps ,circulate hole clean @ 950 gpm,60 rpm, while working pipe 5 ft/min with 10% wash out, | | 6,864.0 | 6,864.0 | | | |
| 19:45 | 0.25 | 20:00 | INT, POST DRL | FLOW_CHK | NORMAL | Flow check well. Well static | | 6,864.0 | 6,864.0 | | | |
| 20:00 | 0.25 | 20:15 | INT, POST DRL | CIRC | NORMAL | Spot pad mud on bottom | | 6,864.0 | 6,864.0 | | | |
| 20:15 | 3.75 | 00:00 | INT, POST DRL | TOOH_ELEV | NORMAL | TOOH F/6,864' T/1400' while monitoring well on trip tanks | | 6,864.0 | 6,864.0 | | | |
| 00:00 | 0.5 | 00:30 | INT, POST DRL | HDL_ROT HD | NORMAL | Pull rotating head and install trip nipple | | 6,864.0 | 6,864.0 | | | |
| 00:30 | 1 | 01:30 | INT, POST DRL | TIH_ELEV | NORMAL | TOOH F/1,400' T/140' while monitoring well on trip tank | | 6,864.0 | 6,864.0 | | | |
| 01:30 | 0.25 | 01:45 | INT, POST DRL | SFTY | NORMAL | PJSM on L/D BHA | | 6,864.0 | 6,864.0 | | | |
| 01:45 | 0.5 | 02:15 | INT, POST DRL | LD_DIR | NORMAL | Lay Down BHA w/ Baker Directional | | 6,864.0 | 6,864.0 | | | |
| 02:15 | 0.25 | 02:30 | INT, POST DRL | SFTY | NORMAL | PJSM For Tripping Back in the hole to L/D Motor | | 6,864.0 | 6,864.0 | | | |
| 02:30 | 0.25 | 02:45 | INT, POST DRL | TIH_ELEV | NORMAL | TIH w/ Motor | | 6,864.0 | 6,864.0 | | | |
| 02:45 | 0.5 | 03:15 | INT, POST DRL | L/D BHA | NORMAL | L/D Motor | | 6,864.0 | 6,864.0 | | | |

| | | | | | | | | | | |
|-------|------|-------|-----------------|------------------|--------|--|---------|---------|--|--|
| 03:15 | 0.25 | 03:30 | INT, POST DRL | WRBSH | NORMAL | P/U wearbushing retrieval tool and recover wearbushing from wellhead. | 6,864.0 | 6,864.0 | | |
| 03:30 | 0.5 | 04:00 | INT, POST DRL | RIG_SVC | NORMAL | Rig Service | 6,864.0 | 6,864.0 | | |
| 04:00 | 0.25 | 04:15 | INT, POST DRL | SFTY | NORMAL | PJSM: Rigging up 9 5/8" intermediate casing | 6,864.0 | 6,864.0 | | |
| 04:15 | 1 | 05:15 | INT, CASE & CMT | RU_CSG | NORMAL | Rig up 9 5/8" Intermediate casing running equipment | 6,864.0 | 6,864.0 | | |
| 05:15 | 0.25 | 05:30 | INT, CASE & CMT | SFTY | NORMAL | Hold PJSM with personnel on running 9 5/8" Intermediate casing string. | 6,864.0 | 6,864.0 | | |
| 05:30 | 0.25 | 05:45 | INT, CASE & CMT | MU_SHOE_TRK | NORMAL | M/U 9 5/8" shoe track and check floats. | 6,864.0 | 6,864.0 | | |
| 05:45 | 0.25 | 06:00 | INT, CASE & CMT | CSG_W/O ROTATION | NORMAL | RIH F/Surf T/250'. Monitoring displacements on trip tanks. Hole giving back proper fill. | 6,864.0 | 6,864.0 | | |

| Drill Strings | | | | |
|-------------------------------|--------------------------------------|--------------------|---------------------------|---------------------------|
| BHA #2 , INTERMEDIATE | | | | |
| Bit Run | Drill Bit | | Bit Type | Make |
| 2 | 12 1/4, XS716, 1886 | | PDC | ULTERRA |
| Nozzles (1/32") | Bit Total Fluid Area (nozzles) (in²) | IADC Bit Dull | Hours Drilled By Bit (hr) | Depth Drilled By Bit (ft) |
| 11/11/11/12/12/12/12/12/12/12 | 1.05 | 1-1-WT-A-X-0-NO-TD | 32.00 | 4,860.00 |
| BHA Drilling Time (hr) | BHA Depth Drilled (ft) | BHA ROP (ft/hr) | Depth In (ftKB) | Depth Out (ftKB) |
| 32.00 | 4,860.00 | 151.9 | 2,014.0 | 6,864.0 |

| Drill String Components | | | | | | | | | |
|-------------------------|----------------------------|---------|---------|----------|--------------|-----------|------------------|------------------------------|--|
| Jts | Item Des | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | Make | |
| 122 | DRILL PIPE | 5 | 4.28 | 5,473.78 | 6,864.00 | 106,738.7 | 152 | RIG | |
| 2 | HWDP | 5 | 2.88 | 60.96 | 1,390.22 | 3,169.9 | 45 | RIG | |
| 1 | DRILLING JARS - HYDRAULIC | 6 7/8 | 2.75 | 30.83 | 1,329.26 | | 42 | WEATHERFORD | |
| 27 | HWDP | 5 | 2.88 | 811.49 | 1,298.43 | 42,197.5 | 42 | RIG | |
| 1 | SUB - XO | 7 7/8 | 2.75 | 3.20 | 486.94 | | 0 | RIG | |
| 12 | DRILL COLLAR - SPIRALED | 8.06 | 2.88 | 364.57 | 483.74 | | 0 | RIG | |
| 1 | SUB - XO | 8 | 3.25 | 3.45 | 119.17 | | 0 | DRILLING TOOLS INTERNATIONAL | |
| 1 | SUB - FILTER | 8 1/4 | 3.25 | 3.73 | 115.72 | | 0 | GE/BAKER HUGHES | |
| 1 | DRILL COLLAR - NON MAG | 8 | 3.25 | 28.90 | 111.99 | | 0 | GE/BAKER HUGHES | |
| 1 | MWD TOOL - NON-RETRIEVABLE | 8 | 3.25 | 35.92 | 83.09 | | 0 | GE/BAKER HUGHES | |
| 1 | STABILIZER | 8 1/4 | 2.75 | 7.53 | 47.17 | | 0 | DRILLING TOOLS INTERNATIONAL | |
| 1 | MOTOR - STABILIZER SLEEVE | 8 1/4 | 3.25 | 38.29 | 39.64 | | 0 | PHOENIX | |

| Mud Motors | | | | | | |
|------------|------------|--------------|-------------|----------|----------------|-------------|
| SN | Bend Angle | Bearing Type | Lobe Config | # Stages | Lwr Defin Type | Bit To Bend |
| PHX900084 | 1.83 | NOT SEALED | 7:8 | 7 | | 6.78 |

| Sensors | | |
|-------------|-----------------|------|
| Sensor Type | Sensor-Bit (ft) | Note |
| GAMMA | 61.78 | |
| DIRECTIONAL | 65.18 | |

| Start Time | End Time | Start Depth (ftKB) | Int Depth (ft) | Int ROP (ft/hr) | WOB (1000lbf) | RPM | dP (SPP) (psi) | Q Flow (gpm) | SPP (psi) | ROP Average (ft/hr) | Drill Str Wt (1000lbf) | PU Str Wt (1000lbf) | SO Str Wt (1000lbf) | Off-Btm Str Wt (1000lbf) | Drill Tq | Off Btm Tq | TFO (") |
|------------|----------|--------------------|----------------|-----------------|---------------|-----|----------------|--------------|-----------|---------------------|------------------------|---------------------|---------------------|--------------------------|----------|------------|---------|
| 06:00 | 06:30 | 5,181.0 | 100.00 | 200.0 | 45 | 50 | 1,043.6 | 948 | 4,995.0 | 252.0 | 151 | 151 | 151 | 151 | 20.0 | 20.0 | |
| 06:30 | 06:45 | 5,281.0 | 9.00 | 36.0 | 0 | 37 | 54.7 | 948 | 4,007.0 | 2.0 | 205 | 205 | 205 | 205 | 4.0 | 4.0 | |
| 06:45 | 07:00 | 5,290.0 | 71.00 | 284.0 | 43 | 50 | 1,051.9 | 948 | 5,005.0 | 326.0 | 153 | 153 | 153 | 153 | 21.0 | 21.0 | |
| 07:00 | 07:30 | 5,361.0 | 91.00 | 182.0 | 26 | 49 | 777.2 | 948 | 4,730.0 | 232.0 | 169 | 169 | 169 | 169 | 16.0 | 16.0 | |
| 07:30 | 08:00 | 5,452.0 | 91.00 | 182.0 | 49 | 49 | 972.8 | 947 | 5,026.0 | 231.0 | 155 | 155 | 155 | 155 | 20.0 | 20.0 | |
| 08:00 | 08:15 | 5,543.0 | 90.00 | 360.0 | 43 | 49 | 851.9 | 948 | 4,905.0 | 235.0 | 161 | 161 | 161 | 161 | 18.0 | 18.0 | |
| 08:15 | 08:45 | 5,633.0 | 91.00 | 182.0 | 51 | 50 | 906.8 | 948 | 4,959.0 | 201.0 | 152 | 152 | 152 | 152 | 18.0 | 18.0 | |
| 08:45 | 09:15 | 5,724.0 | 90.00 | 180.0 | 40 | 50 | 890.8 | 947 | 4,943.0 | 212.0 | 164 | 164 | 164 | 164 | 18.0 | 18.0 | |
| 09:15 | 09:45 | 5,814.0 | 92.00 | 184.0 | 51 | 50 | 1,005.1 | 948 | 5,007.0 | 226.0 | 166 | 166 | 166 | 166 | 19.0 | 19.0 | |
| 09:45 | 10:30 | 5,906.0 | 103.00 | 137.3 | 48 | 50 | 1,037.6 | 947 | 5,040.0 | 257.0 | 169 | 169 | 169 | 169 | 20.0 | 20.0 | |
| 10:30 | 11:15 | 6,009.0 | 0.00 | | 41 | 0 | 0.0 | 219 | 411.0 | 0.0 | 49 | 49 | 49 | 49 | 0.0 | 0.0 | |
| 11:15 | 11:45 | 6,009.0 | 80.00 | 160.0 | 45 | 50 | 1,018.5 | 948 | 5,043.0 | 239.0 | 174 | 174 | 174 | 174 | 19.0 | 19.0 | |
| 11:45 | 12:15 | 6,089.0 | 99.00 | 198.0 | 52 | 50 | 875.3 | 948 | 4,900.0 | 294.0 | 167 | 167 | 167 | 167 | 21.0 | 21.0 | |
| 12:15 | 12:45 | 6,188.0 | 91.00 | 182.0 | 48 | 50 | 932.4 | 948 | 4,957.0 | 267.0 | 172 | 172 | 172 | 172 | 20.0 | 20.0 | |
| 12:45 | 13:15 | 6,279.0 | 93.00 | 186.0 | 47 | 50 | 980.4 | 948 | 5,005.0 | 284.0 | 173 | 173 | 173 | 173 | 21.0 | 21.0 | |
| 13:15 | 13:45 | 6,372.0 | 75.00 | 150.0 | 40 | 50 | 774.0 | 948 | 4,798.0 | 191.0 | 180 | 180 | 180 | 180 | 17.0 | 17.0 | |
| 13:45 | 14:15 | 6,447.0 | 90.00 | 180.0 | 35 | 50 | 627.5 | 948 | 4,669.0 | 170.0 | 192 | 192 | 192 | 192 | 15.0 | 15.0 | |
| 14:15 | 14:45 | 6,537.0 | 92.00 | 184.0 | 49 | 49 | 905.1 | 948 | 4,947.0 | 228.0 | 178 | 178 | 178 | 178 | 19.0 | 19.0 | |
| 14:45 | 15:15 | 6,629.0 | 100.00 | 200.0 | 42 | 50 | 802.8 | 948 | 4,845.0 | 195.0 | 185 | 185 | 185 | 185 | 17.0 | 17.0 | |
| 15:15 | 15:45 | 6,729.0 | 79.00 | 158.0 | 53 | 50 | 874.3 | 947 | 4,941.0 | 208.0 | 176 | 176 | 176 | 176 | 18.0 | 18.0 | |
| 15:45 | 16:30 | 6,808.0 | 56.00 | 74.7 | 56 | 50 | 526.8 | 948 | 4,595.0 | 101.0 | 172 | 172 | 172 | 172 | 14.0 | 14.0 | |
| 16:30 | 17:00 | 6,864.0 | 0.00 | | 4 | 50 | 0.0 | 966 | 4,148.0 | 0.0 | 225 | 225 | 225 | 225 | 6.0 | 6.0 | |
| 17:00 | 17:15 | 6,864.0 | 0.00 | | 1 | 50 | 0.0 | 1,000 | 4,599.0 | 0.0 | 229 | 229 | 229 | 229 | 6.0 | 6.0 | |
| 17:15 | 19:45 | 6,864.0 | 0.00 | | 7 | 50 | 0.0 | 1,000 | 4,572.0 | 0.0 | 222 | 222 | 222 | 222 | 6.0 | 6.0 | |

| | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Hydraulic Calculations | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| Dens Mud (lb/gal) | ECD End (lb/gal) | Bit Hydraulic Power (hp) | HP/Area (hp/in²) | Jet Vel (ft/s) | Bit dP (psi) | Min Open Hole AV (ft/min) | Max Open Hole AV (ft/min) | Vol DrillString (bbl) | Vol Bit to Shoe (bbl) | Vol Shoe to Top (bbl) |
|---|------------------|--------------------------|------------------|-------------------------|--------------------------|---------------------------|---------------------------|-------------------------|-----------------------|-----------------------|
| 10.80 | 10.87 | 531.2 | 4.5 | 305.1 | 910.7 | 28.0 | 298.9 | 108.78 | 574.74 | 257.46 |
| Mud Checks | | | | | | | | | | |
| Time | | Mud Company | | | Type | Depth (ftKB) | Density (lb/gal) | Funnel Viscosity (s/qt) | | T Flowline (° F) |
| 12/19/2022 16:00 | | PIONEER DRILLING FLUIDS | | | WATER BASE | 6,864.0 | 10.80 | 36 | | 0.0 |
| pV (cP) | YP (lb/100ft²) | Vis 3rpm | Vis 6rpm | Filtrate (mL/30min) | HTHP Filtrate (mL/30min) | | HTHP Temperature (° F) | | HTHP Pressure (psi) | |
| 6.0 | 14.000 | 5 | 6 | 7.0 | 0.0 | | 0.0 | | 0.0 | |
| Solids (%) | | Low Gravity Solids (%) | | | Sand (%) | MBT (lb/bbl) | Pm (mL/mL) | Pf (mL/mL) | | |
| 24.0 | | 18.6 | | | 0.3 | 2.5 | 0.400 | 0.0 | | |
| Chlorides (mg/L) | | Calcium (mg/L) | | CaCl (ppm) | Oil Water Ratio | | Electric Stab (V) | | Lime (lb/bbl) | pH |
| 170,000 | | 440.000 | | 0 | 3.9/96.1 | | 0.0 | | 0.1 | 9.0 |
| Gel 10 sec (lb/100ft²) | | | | Gel 10 min (lb/100ft²) | | | Gel 30 min (lb/100ft²) | | | |
| 6.000 | | | | 12.000 | | | 13.000 | | | |
| Comment | | | | | | | | | | |
| Recommended Fluid Treatment: Maintain 10.8 ppg MW w/Whole Mud Dilution. Treatment: 1/2 ppb Soda Ash, 1/4 ppb Xan, 1 ppb Pac LV, 1 ppb Soltex, 5% Diesel. Pad Mud: 1 ppb Xan, 1/2 ppb Soda Ash, 2 ppb Pac LV, 2 ppb Soltex. | | | | | | | | | | |
| Drilling Fluid Activity Last 24 Hrs: Pumped 2 Weighted Caliper Sweeps at TD with 11% washout calculated. Spot 170 BBLs of Pad Mud outside BHA. Monitor well Fill while POOH. Received 1,000 BBLs of 10.0 ppg Brine. | | | | | | | | | | |
| Rig Activity Last 24 Hours: Drill F/3,831' T/6,864' interval TD. Circulate 3X S2S Perform flowcheck with well static. POOH T/2,397' at time of report. Drilling parameters: ROP- 104', WOB- 59.2K, Rotary- 50 RPM, Bit- 209 RPM, Torque- 14.1 KLB-Ft, Diff- 1,122 PSI. P/U 215k, S/O 185k, ROT 195K. Lithology @6,840' 95% LS, 5% SH. | | | | | | | | | | |
| Last BOP Test | | | | | | | | | | |
| Date | | Test Type | | Item Tested | | | Next Test Date | | Com | |
| 12/18/2022 03:15 | | BOP | | BOP'S, 12/18/2022 01:30 | | | 1/3/2023 03:15 | | Shell Test | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | |
| Test Type | | | | | Depth (ftKB) | | | Dens Fluid (lb/gal) | | |
| FORMATION INTEGRITY | | | | | 1,994.0 | | | 12.50 | | |
| Casing Pressure Test | | | | | | | | | | |
| Test Type | Test Subtype | | Date | | Item Tested | | | Failed? | Time (min) | P (psi) |
| CASING | STANDARD | | 11/17/2022 17:30 | | SURFACE, 1,994.7ftKB | | | No | 30.00 | 1,000.0 |
| Kick Offs & Key Depths | | | | | | | | | | |
| Date | | Type | Top Depth (ftKB) | | | Depth Top (TVD) (ftKB) | | | | |
| No Data | | | | | | | | | | |
| Casing Strings | | | | | | | | | | |
| Description | | Set Depth (ftKB) | | Set Depth (TVD) (ftKB) | | OD (in) | Grade | Wt/Len (lb/ft) | Top Thread | P LeakOff (psi) |
| CONDUCTOR | | 105.0 | | 105.0 | | 20 | H40 | 78.67 | | |
| SURFACE | | 1,994.7 | | 1,993.7 | | 13 3/8 | J55 | 54.50 | BTC | 1,294.5 |
| Gas Emissions - Flare | | | | | | | | | | |
| Type | | Method | | Dur (Min) | | Amount | | Units | Com | |
| No Data | | | | | | | | | | |
| Job Supply Amounts | | | | | | | | | | |
| Supply Item Des | | Type | Unit Label | Received | Consumed | Returned | Note | Cum On Loc | Cum Consumed | |
| DIESEL | | MUD | GAL | | 5519 | | | 14,048 | 5519 | |
| DIESEL | | FUEL | GAL | | 3105 | | | 6,964 | 7240 | |
| Mud Additive Amounts | | | | | | | | | | |
| Des | | Type | | | | Units | Rec | Consumed | On Loc | Cum Cons |
| PAC LV | | FILTRATE CONTROL | | | | SACK | | 33 | 13.0 | 41 |
| SODA ASH | | ALKALINITY CONTROL | | | | SACK | | 17 | 168.0 | 25 |
| WO DEFOAMER A | | DEFOAMER | | | | GAL | | 4 | 0.0 | 8 |
| SOLTEX | | FILTRATE CONTROL | | | | LB | | 33 | 27.0 | 41 |
| WALNUT MEDIUM | | LOST CIRCULATION | | | | SACK | | 7 | 18.0 | 7 |
| Pump Operations | | | | | | | | | | |
| Pump # | Make | Model | Liner Size (in) | | Stroke (in) | Vol/Stk (bbl/stk) | | | P Max (psi) | |
| 1 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | | 7,500.0 | |
| 2 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | | 7,500.0 | |
| 3 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | | 7,500.0 | |
| Pump Checks | | | | | | | | | | |
| Pump # | | Depth (ftKB) | | Time | P (psi) | Strokes (spm) | | Q Flow (gpm) | | Eff (%) |
| No Data | | | | | | | | | | |
| Deviation Surveys | | | | | | | | | | |
| Date | | | Description | | | Job | | | | |
| 11/13/2022 08:30 | | | AS DRILL SURVEY | | | ODR, 11/13/2022 06:00 | | | | |
| Survey Data - All surveys for 24 hr reporting period | | | | | | | | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | | VS (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | | |
| 5,207.00 | 0.20 | 166.14 | 5,202.29 | | 120.10 | -118.74 | 20.30 | 0.35 | | |
| 5,297.00 | 0.28 | 175.38 | 5,292.29 | | 120.48 | -119.11 | 20.35 | 0.10 | | |
| 5,387.00 | 0.09 | 172.76 | 5,382.29 | | 120.76 | -119.40 | 20.38 | 0.21 | | |
| 5,478.00 | 0.16 | 182.34 | 5,473.29 | | 120.96 | -119.60 | 20.39 | 0.08 | | |
| 5,568.00 | 0.12 | 90.17 | 5,563.29 | | 121.10 | -119.72 | 20.47 | 0.23 | | |
| 5,659.00 | 0.37 | 101.25 | 5,654.29 | | 121.25 | -119.78 | 20.86 | 0.28 | | |

| | | | | | | | |
|----------|------|--------|----------|--------|---------|-------|------|
| 5,749.00 | 0.40 | 117.45 | 5,744.29 | 121.58 | -119.98 | 21.42 | 0.12 |
| 5,840.00 | 0.38 | 99.32 | 5,835.29 | 121.91 | -120.18 | 22.00 | 0.14 |
| 5,930.00 | 0.37 | 77.32 | 5,925.29 | 122.04 | -120.16 | 22.58 | 0.16 |
| 6,021.00 | 0.37 | 114.09 | 6,016.28 | 122.23 | -120.22 | 23.13 | 0.26 |
| 6,111.00 | 0.31 | 69.87 | 6,106.28 | 122.38 | -120.25 | 23.63 | 0.29 |
| 6,201.00 | 0.22 | 57.77 | 6,196.28 | 122.30 | -120.08 | 24.00 | 0.12 |
| 6,292.00 | 0.31 | 74.75 | 6,287.28 | 122.25 | -119.92 | 24.39 | 0.13 |
| 6,382.00 | 0.22 | 74.31 | 6,377.28 | 122.24 | -119.81 | 24.79 | 0.10 |
| 6,472.00 | 0.28 | 57.08 | 6,467.28 | 122.16 | -119.64 | 25.14 | 0.11 |
| 6,563.00 | 0.29 | 60.86 | 6,558.28 | 122.03 | -119.41 | 25.53 | 0.02 |
| 6,653.00 | 0.31 | 51.50 | 6,648.28 | 121.87 | -119.15 | 25.92 | 0.06 |
| 6,744.00 | 0.38 | 52.56 | 6,739.27 | 121.65 | -118.81 | 26.35 | 0.08 |
| 6,802.00 | 0.35 | 69.65 | 6,797.27 | 121.55 | -118.63 | 26.67 | 0.19 |

| Formations | | | | | | |
|---------------------------------------|--------------------------------------|--------------------|-----------------------|---------------------|------------------------|--|
| Formation Name | Prog Top Override (TVD SS) (ft(elv)) | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) | |
| 267_0_SPBY_U_A1/267_0_SPBY | -5,443.0 | | 8,436.0 | 8,493.0 | | |
| ALT_ICP2 | -5,493.0 | | 8,486.0 | | | |
| 267_5_SPBY_M_A1 | -5,755.0 | | 8,748.0 | 8,807.0 | | |
| 268_5_SPBY_L_A1 | -5,987.0 | | 8,980.0 | 9,026.0 | | |
| 268_5_SPBY_L_A2 | -6,023.0 | | 9,016.0 | 9,077.0 | | |
| 268_5_SPBY_L_A3 | -6,108.0 | | 9,101.0 | 9,155.0 | | |
| 268_6_SPBY_L_B1/JO MILL | -6,262.0 | | 9,255.0 | 9,355.0 | | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | -6,321.0 | | 9,314.0 | 9,409.0 | | |
| ILP | -5,920.0 | | 8,913.0 | | | |
| PBHL/TD | -5,990.0 | | 8,983.0 | | | |
| 269_0_DEAN | -6,633.0 | | 9,626.0 | | | |
| 270_0_WFMP_A1 | -6,802.0 | | 9,795.0 | | | |
| 275_0_WFMP_B1 | -7,009.0 | | 10,002.0 | | | |
| 276_0_WFMP_B2 | -7,031.0 | | 10,024.0 | | | |
| 278_0_WFMP_B3 | -7,085.0 | | 10,078.0 | | | |
| 280_0_WFMP_C1 | -7,175.0 | | 10,168.0 | | | |
| 282_0_WFMP_C2 | -7,275.0 | | 10,268.0 | | | |
| 292_0_WFMP_D | -7,701.0 | | 10,694.0 | | | |
| 304_0_STRAWN | -8,065.0 | | 11,058.0 | | | |

| Daily Contacts | | | | |
|---|------------------------------|--------------|--------------|---------------------------|
| Job Contact | Title | Office | Mobile | Email |
| JACKSON, AUSTIN, ENGINEER | ENGINEER | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM |
| COX, BRYAN, ENGINEER | ENGINEER | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM |
| KUMAR, DEV, ENGINEER | ENGINEER | | 469-865-6956 | DEV.KUMAR@PXD.COM |
| RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT | AREA DRILLING SUPERINTENDENT | 432-571-2557 | 432-557-8128 | KEN.RICHARDSON@PXD.COM |
| GARZA, JOHN, ENGINEER | ENGINEER | | 469-286-7746 | JOHN.GARZA@PXD.COM |
| PARSELL, VIC, SUPERINTENDENT | SUPERINTENDENT | | 432-301-2539 | VIC.PARSELL@PXD.COM |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM |
| EASLEY, JOSH, FIELD ENGINEER | FIELD ENGINEER | | 432-254-9679 | JOSHUA.EASLEY@PXD.COM |
| MUNGER CASEY, MUD ENGINEER | MUD ENGINEER | | 479-234-6620 | CASEY.MUNGER@PXD.COM |
| RIG-ENSIGN 125, RIG PHONE | RIG PHONE | 432-848-5232 | 432-894-8995 | DL-ENSIGN125@PXD.COM |

| Personnel Log | |
|---------------------------------------|-------|
| Company | Count |
| PIONEER NATURAL RESOURCES USA INC | 2 |
| ENSIGN UNITED STATES DRILLING S W INC | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | 2 |
| GISLER BROTHERS LOGGING CO INC | 2 |

ENSIGN 125

Accept:12/18/2022

Release:

Days Since LTI:867.00

Days Since RI:867.00

Daily Drilling Report

PERMIAN ASSET TEAM

Job:ODR

Report Date:12/21/2022

Report #:6

DFS:4

AFE #:9023601

Total AFE + Sup:\$3,388,321.35

Daily Field Est. (Cost):\$447,885.56

| | | | | | | | | | | |
|--|------------------------|---|-----------------------------------|---|---------------------------------|---|--------------------------------------|---|-------------|------------|
| API/UWI 42--003-48666-0000 | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | |
| SSN ID00034057 | | Property Sub | KB-Grd (ft) 25.00 | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | TD Date | |
| Jobs | | | | | | | | | | |
| Responsible Grp 2 | | | Responsible Grp 3 | | Job Type | Start Date | | End Date | Job Status | |
| DRL ENG - JOHN GARZA | | | AREA TEAM 4 | | ODR | 11/13/2022 06:00 | | | IN PROGRESS | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | |
| Type | Subtype | | Date | Note | | | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | 2/5/2023 | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | | |
| Daily Operations | | | | | | | | | | |
| Footage/Meterage (ft) 0.00 | | Drilling Hours | % Rotating Time | End Depth (ftKB) 6,864.0 | Target Depth (ftKB) 19,534.0 | Daily Field Est Total \$447,885.56 | | Cum Field Est To Date \$1,318,007.05 | | |
| 24 HR ROP (ft/hr) | Circulating Hours | % Sliding Time | End Depth (TVD) (ftKB) 6,859.3 | Target Depth Depth (TVD) (ftKB) 8,983.0 | Daily Mud Field Est Total \$ | | Cum Mud Field Est \$8,641.06 | Total AFE + Sup \$3,388,321.35 | | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 0.0 | | Daily Goal - Next 24 0.0 | | | Goal Comments Goal Met | | |
| Backbuild No | Lateral Inclination | Last Casing String INTERMEDIATE, 6,850.0ftKB | | | | Next Casing String INTERMEDIATE, 6,850.0ftKB | | | | |
| Avg Connection Gas 0.00 | | Avg Trip Gas 29.00 | Avg Background Gas 2.00 | | Max Connection Gas 0.00 | | Max Trip Gas 29.00 | Max Drill Gas 0.00 | | |
| Operations Summary Continue RIH w/ 9-5/8" INT 1 Casing, Circ 1.5x Casing capacity, Cement INT 1 Casing, Set Pack-off, N/D BOP, Install TA Cap, Released Rig T/University 6-48C 103H | | | | | | | | | | |
| Operations Next Report Period Release Rig T/University 6-48C 103H | | | | | | | | | | |
| Operations At Report Time Release Rig T/University 6-48C 103H | | | | | | | | | | |
| Remarks No incidents reported, No spills recorded. Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 100%, Curve- 0%, Prod Lat- 0% | | | | | | | | | | |
| Time Log | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # |
| 06:00 | 8 | 14:00 | INT, CASE & CMT | CSG_W/O ROTATION | NORMAL | RIH F/250 T/6,820'. @ 80 FPM Monitoring displacements on trip tanks. | 6,864.0 | 6,864.0 | | |
| 14:00 | 0.25 | 14:15 | INT, CASE & CMT | CSG_W/O ROTATION | NORMAL | P/U landing joint and slack off F/6,820' T/6,864' landing out in wellhead with 175K. | 6,864.0 | 6,864.0 | | |
| 14:15 | 0.25 | 14:30 | INT, CASE & CMT | RD_CSG | NORMAL | R/D 9 5/8" Intermediate casing running equipment. | 6,864.0 | 6,864.0 | | |
| 14:30 | 0.25 | 14:45 | INT, CASE & CMT | RU_CMT | NORMAL | R/U Halliburton cement head assembly. | 6,864.0 | 6,864.0 | | |
| 14:45 | 0.5 | 15:15 | INT, CASE & CMT | SFTY | NORMAL | Rig Service | 6,864.0 | 6,864.0 | | |
| 15:15 | 2.25 | 17:30 | INT, CASE & CMT | CIRC | NORMAL | Circulate 1.5 casing capacity at 7 bpm prior to cementing. FULL Returns **Hold PJSM with personnel on cementing Intermediate ** | 6,864.0 | 6,864.0 | | |
| 17:30 | 0.25 | 17:45 | INT, CASE & CMT | RU_CMT | NORMAL | Rig Up Halliburton steel lines | 6,864.0 | 6,864.0 | | |
| 17:45 | 4.75 | 22:30 | INT, CASE & CMT | CMT | NORMAL | Cement intermediate single stage as follows: Pressure test lines to 7000 psi, pump 50 bbls of 11 ppg spacer, 656 bbls of 11 ppg lead, 52 bbls of 14.8 ppg 1st tail, 14 bbls of 15.2 ppg 2nd tail, drop plug and displace with 513 bbls of FW. Plug bumped on time,Pressured up @ 3 BPM f/1,515 psi t/2,025 psi, held for 5 minutes, Bled back 4 bbls, floats holding. 313 bbls of cement returned to surface. Flowcheck - well was static | 6,864.0 | 6,864.0 | | |
| 22:30 | 0.5 | 23:00 | INT, CASE & | RD_CMT | NORMAL | R/D cementing iron and flush surface lines. | 6,864.0 | 6,864.0 | | |

| | | | | | | | | | | | |
|--|----------------------|--------------------------|------------------|-------------------------|--------------------------|---|---------------------------|---------------------------|-----------------------|-----------------------|-----------------------|
| | | | CMT | | | | | | | | |
| 23:00 | 0.5 | 23:30 | INT, CASE & CMT | WH | NORMAL | L/D landing joint, install packoff and test | | | 6,864.0 | 6,864.0 | |
| 23:30 | 0.5 | 00:00 | INT, CASE & CMT | ND_BOPE | NORMAL | N/D BOP, Choke, Flowline and Mud Lines | | | 6,864.0 | 6,864.0 | |
| 00:00 | 0.25 | 00:15 | INT, CASE & CMT | WH | NORMAL | Install TA cap *****Release Rig T/University 6-48C 103H @ 00:15 hrs ***** | | | 6,864.0 | 6,864.0 | |
| Hydraulic Calculations | | | | | | | | | | | |
| Dens Mud (lb/gal) | ECD End (lb/gal) | Bit Hydraulic Power (hp) | | HP/Area (hp/in²) | Jet Vel (ft/s) | Bit dP (psi) | Min Open Hole AV (ft/min) | Max Open Hole AV (ft/min) | Vol DrillString (bbl) | Vol Bit to Shoe (bbl) | Vol Shoe to Top (bbl) |
| Mud Checks | | | | | | | | | | | |
| Time | | Mud Company | | | Type | Depth (ftKB) | Density (lb/gal) | Funnel Viscosity (s/qt) | | T Flowline (° F) | |
| 12/20/2022 16:00 | | PIONEER DRILLING FLUIDS | | | WATER BASE | 6,864.0 | 10.90 | 32 | | 0.0 | |
| pV (cP) | YP (lb/100ft²) | Vis 3rpm | Vis 6rpm | Filtrate (mL/30min) | HTHP Filtrate (mL/30min) | | HTHP Temperature (° F) | | HTHP Pressure (psi) | | |
| 6.0 | 11.000 | 4 | 5 | 9.0 | 0.0 | | 0.0 | | 0.0 | | |
| Solids (%) | | Low Gravity Solids (%) | | | Sand (%) | MBT (lb/bbl) | | Pm (mL/mL) | Pf (mL/mL) | | |
| 21.0 | | 14.6 | | | 0.3 | 2.5 | | 0.400 | 0.0 | | |
| Chlorides (mg/L) | | Calcium (mg/L) | | CaCl (ppm) | Oil Water Ratio | | Electric Stab (V) | | Lime (lb/bbl) | pH | |
| 169,000 | | 440.000 | | 0 | 2.5/97.5 | | 0.0 | | 0.1 | 8.5 | |
| Gel 10 sec (lb/100ft²) | | | | Gel 10 min (lb/100ft²) | | | Gel 30 min (lb/100ft²) | | | | |
| 4.000 | | | | 6.000 | | | 7.000 | | | | |
| Comment | | | | | | | | | | | |
| Recommeded Fluid Treatment: Maintain MW w/Dilution while POOH and running csg. | | | | | | | | | | | |
| Drilling Fluid Activity Last 24 Hrs: Monitor well fill and displacement during csg run with proper volumes recorded. Monitor returns during cement job with full returns and 315 BBLs of cement to surface. Saved all WBM for use on next well. Received 1,200 BBLs of 10.0 ppg Brine, and 1 load of pallet material. Transferred all chemical and volume T/University 6-48C 103H | | | | | | | | | | | |
| Rig Activity Last 24 Hours: Finish POOH, L/D BHA #1, R/U csg crew. TIH w/9 5/8" csg T/6,850'. R/D csg crew circulate 1 1/2X csg capacity. R/U cementers and perform cement job. R/D cementers and skidding rig T/University 6-48C 103H at time of report. Drilling parameters: ROP- 104', WOB- 59.2K, Rotary- 50 RPM, Bit- 209 RPM, Torque- 14.1 KLB-Ft, Diff- 1,122 PSI. P/U 215k, S/O 185k, ROT 195K. Lithology @6,840' 95% LS, 5% SH. | | | | | | | | | | | |
| Last BOP Test | | | | | | | | | | | |
| Date | | Test Type | | Item Tested | | | | Next Test Date | | Com | |
| 12/18/2022 03:15 | | BOP | | BOP'S, 12/18/2022 01:30 | | | | 1/3/2023 03:15 | | Shell Test | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | | |
| Test Type | | | | | Depth (ftKB) | | | Dens Fluid (lb/gal) | | | |
| FORMATION INTEGRITY | | | | | 1,994.0 | | | 12.50 | | | |
| Casing Pressure Test | | | | | | | | | | | |
| Test Type | Test Subtype | | Date | | Item Tested | | | Failed? | Time (min) | | P (psi) |
| CASING | STANDARD | | 11/17/2022 17:30 | | SURFACE, 1,994.7ftKB | | | No | 30.00 | | 1,000.0 |
| Kick Offs & Key Depths | | | | | | | | | | | |
| Date | | Type | Top Depth (ftKB) | | | | Depth Top (TVD) (ftKB) | | | | |
| No Data | | | | | | | | | | | |
| Casing Strings | | | | | | | | | | | |
| Description | | Set Depth (ftKB) | | Set Depth (TVD) (ftKB) | | OD (in) | Grade | Wt/Len (lb/ft) | | Top Thread | P LeakOff (psi) |
| CONDUCTOR | | 105.0 | | 105.0 | | 20 | H40 | 78.67 | | | |
| SURFACE | | 1,994.7 | | 1,993.7 | | 13 3/8 | J55 | 54.50 | | BTC | 1,294.5 |
| INTERMEDIATE | | 6,850.0 | | 6,845.3 | | 9 5/8 | L80-IC | 40.00 | | BTC | |
| Cement | | | | | | | | | | | |
| Cement Fluids | | | | | | | | | | | |
| Fluid Type | Estimated Top (ftKB) | | | Estimated Bottom (ftKB) | | | Class | Yield (ft³/sack) | | Density (lb/gal) | |
| SPACER | 0.0 | | | 0.0 | | | | 4.13 | | 11.00 | |
| Fluid Type | Estimated Top (ftKB) | | | Estimated Bottom (ftKB) | | | Class | Yield (ft³/sack) | | Density (lb/gal) | |
| LEAD CMT | 0.0 | | | 5,795.0 | | | CLASS C | 2.50 | | 11.00 | |
| Fluid Type | Estimated Top (ftKB) | | | Estimated Bottom (ftKB) | | | Class | Yield (ft³/sack) | | Density (lb/gal) | |
| TAIL CMT | 5,795.0 | | | 6,709.0 | | | CLASS C | 1.33 | | 14.80 | |
| Fluid Type | Estimated Top (ftKB) | | | Estimated Bottom (ftKB) | | | Class | Yield (ft³/sack) | | Density (lb/gal) | |
| TAIL CMT | 6,709.0 | | | 6,850.0 | | | CLASS C | 1.26 | | 15.20 | |
| Fluid Type | Estimated Top (ftKB) | | | Estimated Bottom (ftKB) | | | Class | Yield (ft³/sack) | | Density (lb/gal) | |
| DSPLMT | 6,850.0 | | | 6,850.0 | | | | | | 8.40 | |
| Cement Stages | | | | | | | | | | | |
| Description | | Final Top Depth | | Btm (ftKB) | Top Pl... | | Btm Pl... | | | | |
| | | 27.3 | | 6,850.0 | Yes | | | | | | |
| Q Pump Init | Q Pump Final | | Q Pump Avg | P Pump Final | P Plug Bump | Float | Recip? | Rotated? | | | |
| 6 | 3 | | 6 | 1,515.0 | 2,025.0 | No | No | No | | | |
| INTERMEDIATE CASING CEMENT casing 12/20/2022 17:45 | | | | | | | | | | | |
| Cmtg End Date | | | | Wellbore | | Technical Result | | | Comment | | |
| 12/20/2022 22:15 | | | | ORIGINAL | | | | | | | |
| Gas Emissions - Flare | | | | | | | | | | | |
| Type | | Method | | | Dur (Min) | | Amount | | Units | | Com |
| No Data | | | | | | | | | | | |
| Job Supply Amounts | | | | | | | | | | | |

| Supply Item Des | Type | Unit Label | Received | Consumed | Returned | Note | Cum On Loc | Cum Consumed |
|---|--------------|------------|--------------------------------------|----------|--------------------|--|---------------------------|------------------------|
| DIESEL | FUEL | GAL | 839 | | | | 17,430 | 0 |
| DIESEL | FUEL | GAL | 6387 | 733 | | | 12,618 | 7973 |
| DIESEL | FUEL | GAL | | | 12618 | Transferred to 'UNIVERSITY 6-48C 103H' | 0 | 7973 |
| WATER | FRESH | BBL | | | 0 | Transferred to 'UNIVERSITY 6-48C 103H' | 0 | 7417 |
| DIESEL | MUD | GAL | | | 14048 | Transferred to 'UNIVERSITY 6-48C 103H' | 0 | 5519 |
| DIESEL | FUEL | GAL | | | 17430 | Transferred to 'UNIVERSITY 6-48C 103H' | 0 | 0 |
| Mud Additive Amounts | | | | | | | | |
| Des | Type | Units | Rec | Consumed | | On Loc | Cum Cons | |
| Pump Operations | | | | | | | | |
| Pump # | Make | Model | Liner Size (in) | | Stroke (in) | Vol/Stk (bbl/stk) | P Max (psi) | |
| 1 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | 7,500.0 | |
| 2 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | 7,500.0 | |
| 3 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | 7,500.0 | |
| Pump Checks | | | | | | | | |
| Pump # | Depth (ftKB) | | Time | P (psi) | Strokes (spm) | Q Flow (gpm) | Eff (%) | |
| No Data | | | | | | | | |
| Deviation Surveys | | | | | | | | |
| Date | | | Description | | | Job | | |
| 11/13/2022 08:30 | | | AS DRILL SURVEY | | | ODR, 11/13/2022 06:00 | | |
| Formations | | | | | | | | |
| Formation Name | | | Prog Top Override (TVD SS) (ft(elv)) | | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) |
| 267_0_SPBY_U_A1/267_0_SPBY | | | -5,443.0 | | | 8,436.0 | 8,493.0 | |
| ALT_JCP2 | | | -5,493.0 | | | 8,486.0 | | |
| 267_5_SPBY_M_A1 | | | -5,755.0 | | | 8,748.0 | 8,807.0 | |
| 268_5_SPBY_L_A1 | | | -5,987.0 | | | 8,980.0 | 9,026.0 | |
| 268_5_SPBY_L_A2 | | | -6,023.0 | | | 9,016.0 | 9,077.0 | |
| 268_5_SPBY_L_A3 | | | -6,108.0 | | | 9,101.0 | 9,155.0 | |
| 268_6_SPBY_L_B1/JO MILL | | | -6,262.0 | | | 9,255.0 | 9,355.0 | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | | | -6,321.0 | | | 9,314.0 | 9,409.0 | |
| ILP | | | -5,920.0 | | | 8,913.0 | | |
| PBHL/TD | | | -5,990.0 | | | 8,983.0 | | |
| 269_0_DEAN | | | -6,633.0 | | | 9,626.0 | | |
| 270_0_WFMP_A1 | | | -6,802.0 | | | 9,795.0 | | |
| 275_0_WFMP_B1 | | | -7,009.0 | | | 10,002.0 | | |
| 276_0_WFMP_B2 | | | -7,031.0 | | | 10,024.0 | | |
| 278_0_WFMP_B3 | | | -7,085.0 | | | 10,078.0 | | |
| 280_0_WFMP_C1 | | | -7,175.0 | | | 10,168.0 | | |
| 282_0_WFMP_C2 | | | -7,275.0 | | | 10,268.0 | | |
| 292_0_WFMP_D | | | -7,701.0 | | | 10,694.0 | | |
| 304_0_STRAWN | | | -8,065.0 | | | 11,058.0 | | |
| Daily Contacts | | | | | | | | |
| Job Contact | | | Title | | Office | Mobile | Email | |
| JACKSON, AUSTIN, ENGINEER | | | ENGINEER | | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM | |
| COX, BRYAN, ENGINEER | | | ENGINEER | | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM | |
| KUMAR, DEV, ENGINEER | | | ENGINEER | | | 469-865-6956 | DEV.KUMAR@PXD.COM | |
| RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT | | | AREA DRILLING SUPERINTENDENT | | 432-571-2557 | 432-557-8128 | KEN.RICHARDSON@PXD.COM | |
| GARZA, JOHN, ENGINEER | | | ENGINEER | | | 469-286-7746 | JOHN.GARZA@PXD.COM | |
| PARSELL, VIC, SUPERINTENDENT | | | SUPERINTENDENT | | | 432-301-2539 | VIC.PARSELL@PXD.COM | |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | | | WELLSITE SUPERVISOR | | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM | |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | | | WELLSITE SUPERVISOR | | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM | |
| EASLEY, JOSH, FIELD ENGINEER | | | FIELD ENGINEER | | | 432-254-9679 | JOSHUA.EASLEY@PXD.COM | |
| MUNGER CASEY, MUD ENGINEER | | | MUD ENGINEER | | | 479-234-6620 | CASEY.MUNGER@PXD.COM | |
| RIG-ENSIGN 125, RIG PHONE | | | RIG PHONE | | 432-848-5232 | 432-894-8995 | DL-ENSIGN125@PXD.COM | |
| Personnel Log | | | | | | | | |
| Company | | | | | | | | Count |
| PIONEER NATURAL RESOURCES USA INC | | | | | | | | 2 |
| ENSIGN UNITED STATES DRILLING S W INC | | | | | | | | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | | | | | | | | 2 |
| GISLER BROTHERS LOGGING CO INC | | | | | | | | |

ENSIGN 125

Accept:

12/18/2022

Release:

Days Since LTI:

868.00

Days Since RI:

868.00

PERMIAN ASSET TEAM

Job:

ODR

Report Date:

01/11/2023

Report #:

7

DFS:

5

AFE #:

9023601

Total AFE + Sup:

\$3,354,970.93

Daily Field Est. (Cost):

\$96,064.74

Daily Drilling Report

| | | | | | | | | | | |
|--|------------------------|---|-----------------------------------|--|---|---|--------------------------------------|---|-------------|------------|
| API/UWI 42-003-48666-0000 | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | |
| SSN ID00034057 | Property Sub | KB-Grd (ft) 25.00 | | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | TD Date | |
| Jobs | | | | | | | | | | |
| Responsible Grp 2 | | | Responsible Grp 3 | | Job Type | Start Date | | End Date | Job Status | |
| DRL ENG - JOHN GARZA | | | AREA TEAM 4 | | ODR | 11/13/2022 06:00 | | | IN PROGRESS | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | |
| Type | Subtype | | | Date | Note | | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | | 2/5/2023 | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | |
| Daily Operations | | | | | | | | | | |
| Footage/Meterage (ft) 878.00 | | Drilling Hours 4.25 | % Rotating Time 100.00 | End Depth (ftKB) 7,742.0 | Target Depth (ftKB) 19,534.0 | Daily Field Est Total \$96,064.74 | | Cum Field Est To Date \$1,449,176.71 | | |
| 24 HR ROP (ft/hr) 206.6 | Circulating Hours | % Sliding Time 0.00 | End Depth (TVD) (ftKB) 7,737.3 | Target Depth Depth (TVD) (ftKB) 8,983.0 | Daily Mud Field Est Total \$5,077.50 | | Cum Mud Field Est \$13,718.56 | Total AFE + Sup \$3,354,970.93 | | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 0.0 | | Daily Goal - Next 24 2,000.0 | | | Goal Comments Goal Met | | |
| Backbuild No | Lateral Inclination | Last Casing String INTERMEDIATE, 6,850.0ftKB | | | | Next Casing String PROPOSED PRODUCTION, 19,536.0ftKB | | | | |
| Avg Connection Gas 14.00 | | Avg Trip Gas 0.00 | Avg Background Gas 20.00 | | Max Connection Gas 14.00 | | Max Trip Gas 0.00 | Max Drill Gas 43.00 | | |
| Operations Summary Skid rig F/ 102H, Remove TA & nipple up BOPs, Shell test BOPs, P/U BHA, TIH, Test casing to 2500 PSI, Drill out shoe track and 10' formation T/ 6,874', FIT to 9.5 PPG, Drill production vertical T/ 6918'. TOOHO, to P/U RSS assembly. TIH, Drlg production vertical @ xxxxx' (100% Rotating, 0.0% Sliding, Inc - .17°, Azm - 127.58°, 3.4' Above, 3.6' Left) | | | | | | | | | | |
| Operations Next Report Period Drill Vertical section T/ 8,348' +/-, Drilling curve | | | | | | | | | | |
| Operations At Report Time Drilling vertical section @ 7742 | | | | | | | | | | |
| Remarks No incidents reported, No spills recorded. Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 100%, Curve- 0%, Prod Lat- 0% | | | | | | | | | | |
| Time Log | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # |
| 06:00 | 0.75 | 06:45 | PROD, PRE DRL | SKID | NORMAL | Walk rig F/ University 6-48B #102H T/ University 6-48H 104H | 6,864.0 | 6,864.0 | | |
| 06:45 | 0.5 | 07:15 | PROD, PRE DRL | NU_BOPE | NORMAL | Pull TA cap and N/U BOP | 6,864.0 | 6,864.0 | | |
| 07:15 | 0.5 | 07:45 | PROD, PRE DRL | CONC_BOPE | NORMAL | Shell test BOP | 6,864.0 | 6,864.0 | | |
| 07:45 | 0.5 | 08:15 | PROD, PRE DRL | WRBSH | NORMAL | Install wear bushing | 6,864.0 | 6,864.0 | | |
| 08:15 | 0.25 | 08:30 | PROD, PRE DRL | SFTY | NORMAL | PJSM on picking up directional tools | 6,864.0 | 6,864.0 | | |
| 08:30 | 1.5 | 10:00 | PROD, PRE DRL | PU_DIR | NORMAL | P/U 2.0 MM & associated equipment | 6,864.0 | 6,864.0 | | |
| 10:00 | 3.25 | 13:15 | PROD, PRE DRL | TIH_ELEV | NORMAL | TIH F/ surface T/ 6,753', hole displacing properly | 6,864.0 | 6,864.0 | | |
| 13:15 | 0.75 | 14:00 | PROD, PRE DRL | CSG_TEST | NORMAL | Test casing to 2500 psi for 30 minutes | 6,864.0 | 6,864.0 | | |
| 14:00 | 1.5 | 15:30 | PROD, PRE DRL | DRL_OUT | NORMAL | Drill out shoe track F/ 6,753' T/ 6,864', 400 GPMs, 30 RPM, 15K WOB, 7-10K torque ***Displace to OBM while drilling out shoe track*** | 6,864.0 | 6,864.0 | | |
| 15:30 | 0.25 | 15:45 | PROD, PRE DRL | DRL | NORMAL | Drill F/ 6,864' T/ 6,874', 400 GPMs, 30 RPM, 15K WOB, 7-10K torque | 6,864.0 | 6,874.0 | | |
| 15:45 | 0.25 | 16:00 | PROD, PRE DRL | FIT | NORMAL | Perform FIT to 9.5 PPG equivalent, TVD @ shoe 6,845', 8.5 PPG test weight, 356 PSI | 6,874.0 | 6,874.0 | | |
| 16:00 | 1.75 | 17:45 | PROD, DRL | DRL | NORMAL | Drill production vertical F/ 6,874' T/ 6,918' WOB 40k, RPM 40, 550 GPM, SPP 2450, Diff 500, TRQ 5-6K ***Decision was made to TOOHO due to low ROP once we started drilling formation, Tried to work pipe and fan bottom due to possible aluminum hung up in bit, TOOHO for 8 1/2" Bit and RSS *** | 6,874.0 | 6,918.0 | | |

| | | | | | | | | | | |
|-------|------|-------|-----------|-----------|--------|--|---------|---------|--|--|
| 17:45 | 0.25 | 18:00 | PROD, DRL | FLOW_CHK | NORMAL | Flow Check, Well was static | 6,918.0 | 6,918.0 | | |
| 18:00 | 0.5 | 18:30 | PROD, DRL | TOOH_ELEV | NORMAL | TOOH F/6918' T/5715 with proper fill. | 6,918.0 | 6,918.0 | | |
| 18:30 | 0.5 | 19:00 | PROD, DRL | FLOW_CHK | NORMAL | Check Flow. Well static. Pump slug | 6,918.0 | 6,918.0 | | |
| 19:00 | 2 | 21:00 | PROD, DRL | TOOH_ELEV | NORMAL | TOOH F/ 5715' T/ 117' With proper fill | 6,918.0 | 6,918.0 | | |
| 21:00 | 0.25 | 21:15 | PROD, DRL | SFTY | NORMAL | PJSM on L/D directional tools | 6,918.0 | 6,918.0 | | |
| 21:15 | 0.5 | 21:45 | PROD, DRL | LD_DIR | NORMAL | L/D Directional tools | 6,918.0 | 6,918.0 | | |
| 21:45 | 0.5 | 22:15 | PROD, DRL | SFTY | NORMAL | Clean floor & PJSM on P/U directional tools | 6,918.0 | 6,918.0 | | |
| 22:15 | 0.75 | 23:00 | PROD, DRL | PU_DIR | NORMAL | P/U directional tools and bit | 6,918.0 | 6,918.0 | | |
| 23:00 | 0.25 | 23:15 | PROD, DRL | TIH_ELEV | NORMAL | TIH 10 stands T/1,021' with proper displacement | 6,918.0 | 6,918.0 | | |
| 23:15 | 0.25 | 23:30 | PROD, DRL | CIRC | NORMAL | Test MWD tools | 6,918.0 | 6,918.0 | | |
| 23:30 | 1.5 | 01:00 | PROD, DRL | TIH_ELEV | NORMAL | TIH F/ 1,021' T/ 4550" with proper displacement | 6,918.0 | 6,918.0 | | |
| 01:00 | 0.5 | 01:30 | PROD, DRL | HDL_ROTHD | NORMAL | Pull trip nipple, install rotating head | 6,918.0 | 6,918.0 | | |
| 01:30 | 0.75 | 02:15 | PROD, DRL | TIH_ELEV | NORMAL | TIH F/ 4550' T/ 6918' with proper displacement | 6,918.0 | 6,918.0 | | |
| 02:15 | 0.5 | 02:45 | PROD, DRL | CIRC | NORMAL | Fan bottom whiile downlinking RSS | 6,918.0 | 6,918.0 | | |
| 02:45 | 3.25 | 06:00 | PROD, DRL | DRL | NORMAL | Drill Production Verticall F/ 6918' T/ 7742' (824' @ 253 FPH), 550 GPMs, 75 RPM, 40K WOB, 3000 SPP, 12K torque | 6,918.0 | 7,742.0 | | |

| | | | | | | | | | | |
|--|--|--|--------------------------------------|--|---------------------|--|---------------------------|--|---------------------------|--|
| Drill Strings | | | | | | | | | | |
| BHA #3 , INTERMEDIATE 2 - VERTICAL/CURVE | | | | | | | | | | |
| Bit Run | | | Drill Bit | | | | Bit Type | | Make | |
| 3 | | | 8 3/4, DD306WSX, 5339252 | | | | PDC | | GE/BAKER HUGHES | |
| Nozzles (1/32") | | | Bit Total Fluid Area (nozzles) (in²) | | IADC Bit Dull | | Hours Drilled By Bit (hr) | | Depth Drilled By Bit (ft) | |
| 11/11/14/14/14/14 | | | 0.79 | | 1-2-BT-N-X-0-NO-BHA | | 1.50 | | 54.00 | |
| BHA Drilling Time (hr) | | | BHA Depth Drilled (ft) | | BHA ROP (ft/hr) | | Depth In (ftKB) | | Depth Out (ftKB) | |
| 1.50 | | | 54.00 | | 36.0 | | 6,864.0 | | 6,918.0 | |

| Drill String Components | | | | | | | | |
|-------------------------|----------------------------|---------|---------|----------|--------------|-----------|------------------|-----------------|
| Jts | Item Des | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | Make |
| 150 | DRILL PIPE | 5 | 4.28 | 6,800.79 | 6,918.00 | 132,615.4 | 133 | RIG |
| 26 | SUB - FILTER | 6 7/16 | 2.75 | 4.17 | 117.21 | | 0 | GE/BAKER HUGHES |
| 1 | DRILL COLLAR - NON MAG | 6 17/32 | 3.25 | 28.35 | 113.04 | | 0 | GE/BAKER HUGHES |
| 1 | MWD TOOL - NON-RETRIEVABLE | 6 3/4 | 2.81 | 41.11 | 84.69 | | 0 | GE/BAKER HUGHES |
| 1 | MOTOR - STABILIZER SLEEVE | 7 | 3.25 | 42.88 | 43.58 | | 0 | GE/BAKER HUGHES |

| Mud Motors | | | | | | |
|------------|------------|--------------|-------------|----------|----------------|-------------|
| SN | Bend Angle | Bearing Type | Lobe Config | # Stages | Lwr Defln Type | Bit To Bend |
| 14860154 | 2 | NOT SEALED | 7:8 | 6.4 | | 6.58 |

| Sensors | | | | | | | | | | | | | | | | |
|-------------|--|--|--|-----------------|--|--|--|-------|--|--|--|--|--|--|--|--|
| Sensor Type | | | | Sensor-Bit (ft) | | | | Note | | | | | | | | |
| GAMMA | | | | | | | | 56.76 | | | | | | | | |
| DIRECTIONAL | | | | | | | | 60.16 | | | | | | | | |

| Drilling Parameters | | | | | | | | | | | | | | | | | |
|---------------------|----------|--------------------|----------------|-----------------|---------------|-----|----------------|--------------|-----------|---------------------|------------------------|---------------------|---------------------|--------------------------|----------|------------|---------|
| Start Time | End Time | Start Depth (ftKB) | Int Depth (ft) | Int ROP (ft/hr) | WOB (1000lbf) | RPM | dP (SPP) (psi) | Q Flow (gpm) | SPP (psi) | ROP Average (ft/hr) | Drill Str Wt (1000lbf) | PU Str Wt (1000lbf) | SO Str Wt (1000lbf) | Off-Btm Str Wt (1000lbf) | Drill Tq | Off Btm Tq | TFO (°) |
| 15:30 | 15:45 | 6,864.0 | 10.00 | 40.0 | 13 | 30 | 62.3 | 401 | 1,517.0 | 40.0 | 164 | 164 | 164 | 164 | 4.0 | 4.0 | |
| 16:00 | 17:45 | 6,874.0 | 44.00 | 35.2 | 39 | 38 | 346.9 | 506 | 2,274.0 | 35.0 | 139 | 139 | 139 | 139 | 6.0 | 6.0 | |

| BHA #4 , PRODUCTION - VERTICAL/CURVE/LATERAL | | | | |
|--|--------------------------------------|-----------------|---------------------------|---------------------------|
| Bit Run | Drill Bit | Bit Type | Make | |
| 4 | 8 1/2, DD506TSX, 5333548 | PDC | GE/BAKER HUGHES | |
| Nozzles (1/32") | Bit Total Fluid Area (nozzles) (in²) | IADC Bit Dull | Hours Drilled By Bit (hr) | Depth Drilled By Bit (ft) |
| 12/12/12/14/14/14 | 0.78 | ----- | 2.75 | 824.00 |
| BHA Drilling Time (hr) | BHA Depth Drilled (ft) | BHA ROP (ft/hr) | Depth In (ftKB) | Depth Out (ftKB) |
| 2.75 | 824.00 | 299.6 | 6,918.0 | 7,742.0 |

| Drill String Components | | | | | | | | | | |
|-------------------------|----------------------------|--|--|---------|---------|----------|--------------|-----------|------------------|------------------------------|
| Jts | Item Des | | | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | Make |
| 150 | DRILL PIPE | | | 5 | 4.28 | 7,529.31 | 7,742.00 | 146,821.5 | 147 | RIG |
| 1 | SUB - FILTER | | | 6 1/2 | 3.13 | 4.17 | 212.69 | | 0 | GE/BAKER HUGHES |
| 2 | DRILL PIPE | | | 5 | 3.88 | 90.00 | 208.52 | | 0 | RIG |
| 1 | MOTOR - STABILIZER SLEEVE | | | 7 | 3.25 | 43.22 | 118.52 | | 0 | GE/BAKER HUGHES |
| 1 | SUB - SHOCK | | | 7 | 2.25 | 26.57 | 75.30 | | 0 | OTHER (PROVIDE DESCRIPTION) |
| 1 | STABILIZER | | | 6 7/8 | 2.75 | 10.42 | 48.73 | | 0 | DRILLING TOOLS INTERNATIONAL |
| 1 | RSS TOOL | | | 6.86 | 2.75 | 12.62 | 38.31 | | 0 | GE/BAKER HUGHES |
| 1 | MWD TOOL - NON-RETRIEVABLE | | | 6.69 | 2.75 | 15.63 | 25.69 | | 0 | GE/BAKER HUGHES |
| 1 | RSS TOOL | | | 6.99 | 2.75 | 9.36 | 10.06 | | 0 | GE/BAKER HUGHES |

| Mud Motors | | | | | | |
|------------|------------|--------------|-------------|----------|----------------|-------------|
| SN | Bend Angle | Bearing Type | Lobe Config | # Stages | Lwr Defln Type | Bit To Bend |
| A67370 | 0 | NOT SEALED | 7:8 | 6.4 | | 0 |

| Sensors | | | | | | | | | | | | | | | | |
|-------------|--|--|--|-----------------|--|--|--|-------|--|--|--|--|--|--|--|--|
| Sensor Type | | | | Sensor-Bit (ft) | | | | Note | | | | | | | | |
| GAMMA | | | | | | | | 12.26 | | | | | | | | |
| DIRECTIONAL | | | | | | | | 22.33 | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Drilling Parameters | | | | | | | | | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| Start Time | End Time | Start Depth (ftKB) | Int Depth (ft) | Int ROP (ft/hr) | WOB (1000lbf) | RPM | dP (SPP) (psi) | Q Flow (gpm) | SPP (psi) | ROP Average (ft/hr) | Drill Str Wt (1000lbf) | PU Str Wt (1000lbf) | SO Str Wt (1000lbf) | Off-Btm Str Wt (1000lbf) | Drill Tq | Off Btm Tq | TFO (°) | | | | |
|---|----------|-------------------------|------------------|--------------------------|---------------|-------------------------|--|---------------------|-----------------|--------------------------|------------------------|---------------------------|---------------------|---------------------------|---------------|-----------------------|--------------|-----------------------|--|-----------------------|--|
| 02:45 | 06:00 | 6,918.0 | 824.00 | 299.6 | 40 | 50 | | 550 | 2,900.0 | 242.0 | 135 | 180 | 160 | 170 | 11.0 | 7.0 | | | | | |
| Hydraulic Calculations | | | | | | | | | | | | | | | | | | | | | |
| Dens Mud (lb/gal) | | ECD End (lb/gal) | | Bit Hydraulic Power (hp) | | HP/Area (hp/in²) | | Jet Vel (ft/s) | | Bit dP (psi) | | Min Open Hole AV (ft/min) | | Max Open Hole AV (ft/min) | | Vol DrillString (bbl) | | Vol Bit to Shoe (bbl) | | Vol Shoe to Top (bbl) | |
| 8.45 | | 8.64 | | 124.9 | | 2.2 | | 225.6 | | 389.4 | | 15.4 | | 579.8 | | 136.26 | | 39.49 | | 352.45 | |
| Mud Checks | | | | | | | | | | | | | | | | | | | | | |
| Time | | Mud Company | | | | Type | | Depth (ftKB) | | Density (lb/gal) | | Funnel Viscosity (s/qt) | | | | T Flowline (° F) | | | | | |
| 1/10/2023 23:00 | | PIONEER DRILLING FLUIDS | | | | OIL BASE | | 6,918.0 | | 8.45 | | 56 | | | | | | | | | |
| pV (cP) | | YP (lbf/100ft²) | | Vis 3rpm | | Vis 6rpm | | Filtrate (mL/30min) | | HTHP Filtrate (mL/30min) | | HTHP Temperature (° F) | | | | HTHP Pressure (psi) | | | | | |
| 12.0 | | 7.000 | | 5 | | 4 | | 0.0 | | 12.0 | | 200.0 | | | | 500.0 | | | | | |
| Solids (%) | | Low Gravity Solids (%) | | | | Sand (%) | | MBT (lb/bbl) | | | | Pm (mL/mL) | | | | Pf (mL/mL) | | | | | |
| 5.5 | | 2.7 | | | | 0.0 | | 0.0 | | | | 0.000 | | | | 0.0 | | | | | |
| Chlorides (mg/L) | | | Calcium (mg/L) | | | CaCl (ppm) | | | Oil Water Ratio | | | Electric Stab (V) | | | Lime (lb/bbl) | | | pH | | | |
| 13,000 | | | 5,000.000 | | | 0 | | | 70.9/29.1 | | | 421.0 | | | 2.1 | | | 0.0 | | | |
| Gel 10 sec (lbf/100ft²) | | | | | | Gel 10 min (lbf/100ft²) | | | | | | Gel 30 min (lbf/100ft²) | | | | | | | | | |
| 6.000 | | | | | | 12.000 | | | | | | 14.000 | | | | | | | | | |
| Comment | | | | | | | | | | | | | | | | | | | | | |
| Recommended Fluid Treatment:MW 8.4-8.5ppg. Diesel at 5.35 BPH. Treatment: 1 ppb Tone to maintain rheologies, 1 ppb Lime to raise ex lime, 1 ppb Mul to maintain es, 1 ppb LEM to maintain 6/3 rpm, 0.5 ppb Gilsonite & Soltex to maintain HTHP & shale stability | | | | | | | | | | | | | | | | | | | | | |
| Drilling Fluid Activity Last 24 Hrs:Displaced hole w/ 8.5ppg OBM. Performed FIT t/ 9.5 emw. Pumped slug. Monitor well on trip tank during tripping ops | | | | | | | | | | | | | | | | | | | | | |
| Rig Activity Last 24 Hours:Skid rig, N/U & shell test BOP. P/U BHA, TIH, tested csg for 30 min. Drilled LC & shoe track + 10' t/ 6,874' displaced t/ obm. FIT t/ 9.5 emw. Drilled f/ 6,874' t/ 6,918'. Decision made to trip due t/ slow ROP. Flow checked well was static; pulled 5 stds wet pumped slug. POOH, C/O BHA . Drilling parameters: ROP- 35', WOB-40K, Rotary- 40 RPM, Bit- 180 RPM, Tq- 5 KLB-Ft, Diff- 500 PSI. P/U 235k, S/O 200k, ROT 215K. Lithology @ 6,900' 10% SH, 80% LS, 10% CMT. Ftg Drilled Last 24hrs: 54'. Currently TIH at time of report. | | | | | | | | | | | | | | | | | | | | | |
| Last BOP Test | | | | | | | | | | | | | | | | | | | | | |
| Date | | | | Test Type | | Item Tested | | | | | | Next Test Date | | | | Com | | | | | |
| 1/10/2023 07:30 | | | | BOP | | BOP'S, 12/18/2022 01:30 | | | | | | 1/19/2023 03:15 | | | | Shell Test | | | | | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | | | | | | | | Depth (ftKB) | | | | Dens Fluid (lb/gal) | | | | | | | | |
| FORMATION INTEGRITY | | | | | | | | | 1,994.0 | | | | 12.50 | | | | | | | | |
| FORMATION INTEGRITY | | | | | | | | | 6,850.0 | | | | 9.50 | | | | | | | | |
| Casing Pressure Test | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | Test Subtype | | Date | | | Item Tested | | | | | Failed? | | Time (min) | | P (psi) | | | | | |
| CASING | | STANDARD | | 11/17/2022 17:30 | | | SURFACE, 1,994.7ftKB | | | | | No | | 30.00 | | 1,000.0 | | | | | |
| CASING | | STANDARD | | 1/10/2023 13:15 | | | INTERMEDIATE, 6,850.0ftKB | | | | | No | | 30.00 | | 2,500.0 | | | | | |
| Kick Offs & Key Depths | | | | | | | | | | | | | | | | | | | | | |
| Date | | | | Type | | Top Depth (ftKB) | | | | | Depth Top (TVD) (ftKB) | | | | | | | | | | |
| No Data | | | | | | | | | | | | | | | | | | | | | |
| Casing Strings | | | | | | | | | | | | | | | | | | | | | |
| Description | | | Set Depth (ftKB) | | | Set Depth (TVD) (ftKB) | | | OD (in) | | Grade | Wt/Len (lb/ft) | | Top Thread | | P LeakOff (psi) | | | | | |
| CONDUCTOR | | | 105.0 | | | 105.0 | | | 20 | | H40 | 78.67 | | | | | | | | | |
| SURFACE | | | 1,994.7 | | | 1,993.7 | | | 13 3/8 | | J55 | 54.50 | | BTC | | 1,294.5 | | | | | |
| INTERMEDIATE | | | 6,850.0 | | | 6,845.3 | | | 9 5/8 | | L80-IC | 40.00 | | BTC | | 3,378.6 | | | | | |
| Gas Emissions - Flare | | | | | | | | | | | | | | | | | | | | | |
| Type | | | | Method | | | Dur (Min) | | | Amount | | | Units | | Com | | | | | | |
| No Data | | | | | | | | | | | | | | | | | | | | | |
| Job Supply Amounts | | | | | | | | | | | | | | | | | | | | | |
| Supply Item Des | | Type | Unit Label | Received | Consumed | Returned | Note | | | | | | | | Cum On Loc | | Cum Consumed | | | | |
| DIESEL | | FUEL | GAL | 19990 | | | Transferred From UNIVERSITY 6-48B 102H | | | | | | | | 19,990 | | 0 | | | | |
| DIESEL | | MUD | GAL | 12307 | 900 | | Transferred from' UNIVERSITY 6-48B 102H' | | | | | | | | 11,407 | | 6419 | | | | |
| DIESEL | | FUEL | GAL | 14182 | 1340 | | Transferred from' UNIVERSITY 6-48B 102H' | | | | | | | | 12,842 | | 9313 | | | | |
| WATER | | FRESH | BBL | 5633 | 5633 | | Transferred from' UNIVERSITY 6-48B 102H' Intial reading 89,149 Final Reading 94782 | | | | | | | | 0 | | 13050 | | | | |
| Mud Additive Amounts | | | | | | | | | | | | | | | | | | | | | |
| Des | | | | Type | | | | | Units | | Rec | Consumed | | On Loc | | Cum Cons | | | | | |
| WALNUT MEDIUM | | | | LOST CIRCULATION | | | | | SACK | | 46 | 5 | | 41.0 | | 12 | | | | | |
| BARITE - BULK | | | | WEIGHTING MATERIAL | | | | | TON | | 23.02 | 8 | | 15.02 | | 8 | | | | | |
| DD LEM | | | | LOW END MODIFIER | | | | | GAL | | 500 | 65 | | 435.0 | | 65 | | | | | |
| DDF MUL | | | | ALL IN ONE EMULSIFIER | | | | | GAL | | 850 | 125 | | 725.0 | | 125 | | | | | |
| Pump Operations | | | | | | | | | | | | | | | | | | | | | |
| Pump # | | Make | | Model | | Liner Size (in) | | | Stroke (in) | | | Vol/Stk (bbl/stk) | | | P Max (psi) | | | | | | |
| 1 | | BOMCO | | F1600 | | 5 1/2 | | | 12.00 | | | 0.088 | | | 7,500.0 | | | | | | |

| | | | | | | |
|--|--------------|--------------------------------------|--------------------|-----------------------|---------------------------|------------------------|
| 2 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | 7,500.0 |
| 3 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | 7,500.0 |
| Pump Checks | | | | | | |
| Pump # | Depth (ftKB) | Time | P (psi) | Strokes (spm) | Q Flow (gpm) | Eff (%) |
| 1 | 6,918.0 | 1/11/2023 03:47 | 100.0 | 20 | 70 | 95 |
| 1 | 6,918.0 | 1/11/2023 03:48 | 160.0 | 30 | 106 | 95 |
| 1 | 6,918.0 | 1/11/2023 03:48 | 270.0 | 40 | 141 | 95 |
| 2 | 6,918.0 | 1/11/2023 03:49 | 125.0 | 20 | 70 | 95 |
| 2 | 6,918.0 | 1/11/2023 03:49 | 200.0 | 30 | 106 | 95 |
| 2 | 6,918.0 | 1/11/2023 03:50 | 290.0 | 40 | 141 | 95 |
| Deviation Surveys | | | | | | |
| Date | | Description | | Job | | |
| 11/13/2022 08:30 | | AS DRILL SURVEY | | ODR, 11/13/2022 06:00 | | |
| Survey Data - All surveys for 24 hr reporting period | | | | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | VS (ft) | NS (ft) | DLS (°/100ft) |
| 6,962.00 | 0.17 | 325.08 | 6,957.27 | 121.28 | -118.27 | 0.27 |
| 7,052.00 | 0.03 | 93.32 | 7,047.27 | 121.16 | -118.16 | 0.21 |
| 7,142.00 | 0.04 | 32.81 | 7,137.27 | 121.15 | -118.13 | 0.04 |
| 7,232.00 | 0.11 | 145.73 | 7,227.27 | 121.21 | -118.18 | 0.15 |
| Formations | | | | | | |
| Formation Name | | Prog Top Override (TVD SS) (ft(elv)) | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) |
| 267_0_SPBY_U_A1/267_0_SPBY | | -5,443.0 | | 8,436.0 | 8,493.0 | |
| ALT_ICP2 | | -5,493.0 | | 8,486.0 | | |
| 267_5_SPBY_M_A1 | | -5,755.0 | | 8,748.0 | 8,807.0 | |
| 268_5_SPBY_L_A1 | | -5,987.0 | | 8,980.0 | 9,026.0 | |
| 268_5_SPBY_L_A2 | | -6,023.0 | | 9,016.0 | 9,077.0 | |
| 268_5_SPBY_L_A3 | | -6,108.0 | | 9,101.0 | 9,155.0 | |
| 268_6_SPBY_L_B1/JO MILL | | -6,262.0 | | 9,255.0 | 9,355.0 | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | | -6,321.0 | | 9,314.0 | 9,409.0 | |
| ILP | | -5,920.0 | | 8,913.0 | | |
| PBHL/TD | | -5,990.0 | | 8,983.0 | | |
| 269_0_DEAN | | -6,633.0 | | 9,626.0 | | |
| 270_0_WFMP_A1 | | -6,802.0 | | 9,795.0 | | |
| 275_0_WFMP_B1 | | -7,009.0 | | 10,002.0 | | |
| 276_0_WFMP_B2 | | -7,031.0 | | 10,024.0 | | |
| 278_0_WFMP_B3 | | -7,085.0 | | 10,078.0 | | |
| 280_0_WFMP_C1 | | -7,175.0 | | 10,168.0 | | |
| 282_0_WFMP_C2 | | -7,275.0 | | 10,268.0 | | |
| 292_0_WFMP_D | | -7,701.0 | | 10,694.0 | | |
| 304_0_STRAWN | | -8,065.0 | | 11,058.0 | | |
| Daily Contacts | | | | | | |
| Job Contact | | Title | Office | Mobile | Email | |
| JACKSON, AUSTIN, ENGINEER | | ENGINEER | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM | |
| COX, BRYAN, ENGINEER | | ENGINEER | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM | |
| KUMAR, DEV, ENGINEER | | ENGINEER | | 469-865-6956 | DEV.KUMAR@PXD.COM | |
| RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT | | AREA DRILLING SUPERINTENDENT | 432-571-2557 | 432-557-8128 | KEN.RICHARDSON@PXD.COM | |
| GARZA, JOHN, ENGINEER | | ENGINEER | | 469-286-7746 | JOHN.GARZA@PXD.COM | |
| PARSELL, VIC, SUPERINTENDENT | | SUPERINTENDENT | | 432-301-2539 | VIC.PARSELL@PXD.COM | |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | | WELLSITE SUPERVISOR | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM | |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | | WELLSITE SUPERVISOR | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM | |
| EASLEY, JOSH, FIELD ENGINEER | | FIELD ENGINEER | | 432-254-9679 | JOSHUA.EASLEY@PXD.COM | |
| MUNGER CASEY, MUD ENGINEER | | MUD ENGINEER | | 479-234-6620 | CASEY.MUNGER@PXD.COM | |
| RIG-ENSIGN 125, RIG PHONE | | RIG PHONE | 432-848-5232 | 432-894-8995 | DL-ENSIGN125@PXD.COM | |
| Personnel Log | | | | | | |
| Company | | | | | | Count |
| PIONEER NATURAL RESOURCES USA INC | | | | | | 2 |
| ENSIGN UNITED STATES DRILLING S W INC | | | | | | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | | | | | | 2 |
| GISLER BROTHERS LOGGING CO INC | | | | | | 2 |

| | |
|-----------------|------------|
| ENSIGN 125 | |
| Accept: | 12/18/2022 |
| Release: | |
| Days Since LTI: | 869.00 |
| Days Since RI: | 869.00 |

Daily Drilling Report

| | |
|--------------------------|----------------|
| PERMIAN ASSET TEAM | |
| Job: | ODR |
| Report Date: | 01/12/2023 |
| Report #: | 8 |
| DFS: | 6 |
| AFE #: | 9023601 |
| Total AFE + Sup: | \$3,354,970.93 |
| Daily Field Est. (Cost): | \$116,943.45 |

| | | | | | | | | | | | |
|--|---------------------------|---|-----------------------------------|--|---|---|---|---------------------------------------|----------------------------------|---|------------|
| API/UWI 42-003-48666-0000 | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | | |
| SSN ID00034057 | | Property Sub | KB-Grd (ft) 25.00 | | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | | TD Date |
| Jobs | | | | | | | | | | | |
| Responsible Grp 2 | | | | Responsible Grp 3 | | Job Type | Start Date | | End Date | Job Status | |
| DRL ENG - JOHN GARZA | | | | AREA TEAM 4 | | ODR | 11/13/2022 06:00 | | | IN PROGRESS | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | | |
| Type | Subtype | | | Date | Note | | | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | | 2/5/2023 | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | | |
| Daily Operations | | | | | | | | | | | |
| Footage/Meterage (ft) 2,828.00 | | Drilling Hours 23.50 | % Rotating Time 100.00 | End Depth (ftKB) 10,570.0 | | Target Depth (ftKB) 19,534.0 | | Daily Field Est Total \$116,943.45 | | Cum Field Est To Date \$1,568,458.89 | |
| 24 HR ROP (ft/hr) 120.3 | Circulating Hours 0.50 | % Sliding Time 0.00 | End Depth (TVD) (ftKB) 8,928.0 | | Target Depth Depth (TVD) (ftKB) 8,983.0 | | Daily Mud Field Est Total \$6,959.94 | | Cum Mud Field Est \$20,678.50 | Total AFE + Sup \$3,354,970.93 | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 2,000.0 | | | Daily Goal - Next 24 3,000.0 | | | Goal Comments Goal Met | | |
| Backbuild No | Lateral Inclination | Last Casing String INTERMEDIATE, 6,850.0ftKB | | | | | Next Casing String PROPOSED PRODUCTION, 19,536.0ftKB | | | | |
| Avg Connection Gas 501.00 | | Avg Trip Gas 30.00 | Avg Background Gas 320.00 | | Max Connection Gas 1,015.00 | | Max Trip Gas 30.00 | | Max Drill Gas 1,061.00 | | |
| Operations Summary | | | | | | | | | | | |
| Drill Productionl Verical F/7742' T/8,342' ,Drill Production Curve F/8,342' T/9,270' Drill Lateral F/ 9270' T/10570' (INC - .92.04°, AZI - 165.36°, Below - 8.5', Right - 8.8', AVG DLS -5.75) | | | | | | | | | | | |
| Operations Next Report Period | | | | | | | | | | | |
| Drilling Production Lateral @13570' | | | | | | | | | | | |
| Operations At Report Time | | | | | | | | | | | |
| Drilling Production Lateral @10570' | | | | | | | | | | | |
| Remarks | | | | | | | | | | | |
| No incidents reported, No spills recorded. | | | | | | | | | | | |
| Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 100%, Curve- 100%, Prod Lat- 0% | | | | | | | | | | | |
| Time Log | | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # |
| 06:00 | 3.5 | 09:30 | PROD, DRL | DRL | NORMAL | Drill Production Verticall F/ 7,742' T/ 8,342' (600' @ 171.4 FPH), 550 GPMs, 75 RPM, 40K WOB, 3000 SPP, 12K torque | | 7,742.0 | 8,342.0 | | |
| 09:30 | 12.25 | 21:45 | PROD, DRL CURVE | DRL | NORMAL | Drill Production Curve F/ 8,342' T/ 9270' (928 @ 75 FPH), 550 GPMs, 50 RPM, 20K WOB, 2800 SPP, 8K torque | | 8,342.0 | 9,270.0 | | |
| 21:45 | 6 | 03:45 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/9,270' T/10,240' (970' @ 161' fph). Pumping @ 600 GPM w/2850 psi, Rotating @ 100 RPM w/12K torque, 38K WOB, Diff 550 | | 9,270.0 | 10,240.0 | | |
| 03:45 | 0.5 | 04:15 | PROD, DRL LAT | RIG_SVC | NORMAL | Rig Service | | 10,240.0 | 10,240.0 | | |
| 04:15 | 1.75 | 06:00 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/10,240' T/10570' (330' @ 188' fph). Pumping @ 600 GPM w/2950 psi, Rotating @ 100RPM w/13K torque, 35-40K WOB, Diff 600 | | 10,240.0 | 10,570.0 | | |
| Drill Strings | | | | | | | | | | | |
| BHA #4 , PRODUCTION - VERTICAL/CURVE/LATERAL | | | | | | | | | | | |
| Bit Run | | Drill Bit 4 8 1/2, DD506TSX, 5333548 | | | | | Bit Type PDC | | Make GE/BAKER HUGHES | | |
| Nozzles (1/32") 12/12/12/14/14/14 | | Bit Total Fluid Area (nozzles) (in²) 0.78 | | IADC Bit Dull ----- | | Hours Drilled By Bit (hr) 26.25 | | Depth Drilled By Bit (ft) 3,652.00 | | | |
| BHA Drilling Time (hr) 26.25 | | BHA Depth Drilled (ft) 3,652.00 | | BHA ROP (ft/hr) 139.1 | | Depth In (ftKB) 6,918.0 | | Depth Out (ftKB) 10,570.0 | | | |
| Drill String Components | | | | | | | | | | | |
| Jts | Item Des | | | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | Make | |

| | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|-------------------------|--------------------------|-------------------------|---------------------------|----------------|------------------------------|---------------------|--------------------------|------------------------|---------------------------|-------------------------|---------------------------|------------|-----------------------|---------|-----------------------|--|-----------------------|--|
| 150 | DRILL PIPE | 5 | 4.28 | 7,529.31 | 7,742.00 | 146,821.5 | 147 | RIG | | | | | | | | | | | | | |
| 1 | SUB - FILTER | 6 1/2 | 3.13 | 4.17 | 212.69 | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | | |
| 2 | DRILL PIPE | 5 | 3.88 | 90.00 | 208.52 | | 0 | RIG | | | | | | | | | | | | | |
| 1 | MOTOR - STABILIZER SLEEVE | 7 | 3.25 | 43.22 | 118.52 | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | | |
| 1 | SUB - SHOCK | 7 | 2.25 | 26.57 | 75.30 | | 0 | OTHER (PROVIDE DESCRIPTION) | | | | | | | | | | | | | |
| 1 | STABILIZER | 6 7/8 | 2.75 | 10.42 | 48.73 | | 0 | DRILLING TOOLS INTERNATIONAL | | | | | | | | | | | | | |
| 1 | RSS TOOL | 6.86 | 2.75 | 12.62 | 38.31 | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | | |
| 1 | MWD TOOL - NON-RETRIEVABLE | 6.69 | 2.75 | 15.63 | 25.69 | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | | |
| 1 | RSS TOOL | 6.99 | 2.75 | 9.36 | 10.06 | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | | |
| Mud Motors | | | | | | | | | | | | | | | | | | | | | |
| SN | | Bend Angle | | Bearing Type | | Lobe Config | | # Stages | Lwr Defin Type | | Bit To Bend | | | | | | | | | | |
| A67370 | | 0 | | NOT SEALED | | 7:8 | | 6.4 | | 0 | | | | | | | | | | | |
| Sensors | | | | | | | | | | | | | | | | | | | | | |
| Sensor Type | | | Sensor-Bit (ft) | | | | Note | | | | | | | | | | | | | | |
| GAMMA | | | 12.26 | | | | | | | | | | | | | | | | | | |
| DIRECTIONAL | | | 22.33 | | | | | | | | | | | | | | | | | | |
| Drilling Parameters | | | | | | | | | | | | | | | | | | | | | |
| Start Time | End Time | Start Depth (ftKB) | Int Depth (ft) | Int ROP (ft/hr) | WOB (1000lbf) | RPM | dP (SPP) (psi) | Q Flow (gpm) | SPP (psi) | ROP Average (ft/hr) | Drill Str Wt (1000lbf) | PU Str Wt (1000lbf) | SO Str Wt (1000lbf) | Off-Btm Str Wt (1000lbf) | Drill Tq | Off Btm Tq | TFO (°) | | | | |
| 06:00 | 09:30 | 7,742.0 | 600.00 | 171.4 | 38 | 50 | | 550 | 2,925.0 | 171.0 | 210 | 215 | 200 | 210 | 11.0 | 7.0 | | | | | |
| 09:30 | 21:45 | 8,342.0 | 928.00 | 75.8 | 38 | 50 | | 550 | 2,700.0 | 74.0 | 210 | 215 | 200 | 210 | 11.0 | 5.0 | | | | | |
| 21:45 | 03:45 | 9,270.0 | 970.00 | 161.7 | 38 | 100 | | 600 | 2,850.0 | 161.0 | 210 | 215 | 200 | 210 | 12.0 | 5.0 | | | | | |
| 03:45 | 04:15 | 10,240.0 | 0.00 | | 0 | 0 | | 600 | 2,850.0 | 0.0 | 205 | 220 | 190 | 205 | 12.0 | 5.0 | | | | | |
| 04:15 | 06:00 | 10,240.0 | 330.00 | 188.6 | 40 | 100 | | 600 | 2,850.0 | 188.0 | 205 | 220 | 190 | 205 | 12.0 | 5.0 | | | | | |
| Hydraulic Calculations | | | | | | | | | | | | | | | | | | | | | |
| Dens Mud (lb/gal) | | ECD End (lb/gal) | | Bit Hydraulic Power (hp) | | HP/Area (hp/in²) | | Jet Vel (ft/s) | | Bit dP (psi) | | Min Open Hole AV (ft/min) | | Max Open Hole AV (ft/min) | | Vol DrillString (bbl) | | Vol Bit to Shoe (bbl) | | Vol Shoe to Top (bbl) | |
| 8.40 | | 8.43 | | 161.2 | | 2.8 | | 246.1 | | 460.7 | | 16.8 | | 632.5 | | 186.59 | | 169.29 | | 352.45 | |
| Mud Checks | | | | | | | | | | | | | | | | | | | | | |
| Time | | | Mud Company | | | | Type | | Depth (ftKB) | | Density (lb/gal) | | Funnel Viscosity (s/qt) | | | T Flowline (° F) | | | | | |
| 1/11/2023 22:00 | | | PIONEER DRILLING FLUIDS | | | | OIL BASE | | 9,400.0 | | 8.40 | | 50 | | | 106.0 | | | | | |
| pV (cP) | | YP (lb/100ft²) | | Vis 3rpm | | Vis 6rpm | | Filtrate (mL/30min) | | HTHP Filtrate (mL/30min) | | | HTHP Temperature (° F) | | | HTHP Pressure (psi) | | | | | |
| 11.0 | | 7.000 | | 4 | | 5 | | 0.0 | | 8.0 | | | 200.0 | | | 500.0 | | | | | |
| Solids (%) | | | Low Gravity Solids (%) | | | | | Sand (%) | | MBT (lb/bbl) | | | Pm (mL/mL) | | Pf (mL/mL) | | | | | | |
| 5.5 | | | 2.7 | | | | | 0.0 | | 0.0 | | | 0.000 | | 0.0 | | | | | | |
| Chlorides (mg/L) | | | Calcium (mg/L) | | | CaCl (ppm) | | Oil Water Ratio | | | Electric Stab (V) | | | Lime (lb/bbl) | | pH | | | | | |
| 15,000 | | | 4,500.000 | | | 0 | | 73.5/26.5 | | | 482.0 | | | 2.2 | | 0.0 | | | | | |
| Gel 10 sec (lb/100ft²) | | | | | Gel 10 min (lb/100ft²) | | | | | Gel 30 min (lb/100ft²) | | | | | | | | | | | |
| 6.000 | | | | | 12.000 | | | | | 14.000 | | | | | | | | | | | |
| Comment | | | | | | | | | | | | | | | | | | | | | |
| Recommeded Fluid Treatment:MW 8.4-8.5ppg. Diesel at 5.35 BPH. FW at 2.68 BPH. Treatment: 1 ppb Tone to maintain rheologies, 1 ppb Lime to raise ex lime, 1 ppb Mul to maintain es, 1 ppb LEM to maintain 6/3 rpm, 0.5 ppb Gilsonite & Soltex to maintain HTHP & shale stability. | | | | | | | | | | | | | | | | | | | | | |
| Drilling Fluid Activity Last 24 Hrs:Transferring OBM f/ frac & MT2 t/ active as needed for volume. Running centrifuge as needed to control MW. Rolled OBM fracs 8&9. Rec load of bulk barite. Rec 11,123 gal mud diesel. | | | | | | | | | | | | | | | | | | | | | |
| Rig Activity Last 24 Hours:Drilled prod vertical f/ 6,918' t/ 8,342'. Drilled curve f/ 8,342' KOP t/ 9,270' LP. Drilled lateral f/ 9,270' t/ 9,400'. Drilling parameters: ROP- 200', WOB-38K, Rotary- 100 RPM, Bit- 220 RPM, Tq- 11 KLB-Ft, Diff- 900 PSI. P/U 215k, S/O 200k, ROT 210K. Lithology @ 9,360' 90% SH, 10% LS, 10%. Ftg Drilled Last 24hrs: 2,482'. Currently drilling lateral at time of report. | | | | | | | | | | | | | | | | | | | | | |
| Last BOP Test | | | | | | | | | | | | | | | | | | | | | |
| Date | | | Test Type | | Item Tested | | | | Next Test Date | | | Com | | | | | | | | | |
| 1/10/2023 07:30 | | | BOP | | BOP'S, 12/18/2022 01:30 | | | | 1/19/2023 03:15 | | | Shell Test | | | | | | | | | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | | | | Depth (ftKB) | | | | Dens Fluid (lb/gal) | | | | | | | | | | | | |
| FORMATION INTEGRITY | | | | | 1,994.0 | | | | 12.50 | | | | | | | | | | | | |
| FORMATION INTEGRITY | | | | | 6,850.0 | | | | 9.50 | | | | | | | | | | | | |
| Casing Pressure Test | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | Test Subtype | | Date | | Item Tested | | | | Failed? | | Time (min) | | P (psi) | | | | | | | |
| CASING | | STANDARD | | 11/17/2022 17:30 | | SURFACE, 1,994.7ftKB | | | | No | | 30.00 | | 1,000.0 | | | | | | | |
| CASING | | STANDARD | | 1/10/2023 13:15 | | INTERMEDIATE, 6,850.0ftKB | | | | No | | 30.00 | | 2,500.0 | | | | | | | |
| Kick Offs & Key Depths | | | | | | | | | | | | | | | | | | | | | |
| Date | | Type | | Top Depth (ftKB) | | | | Depth Top (TVD) (ftKB) | | | | | | | | | | | | | |
| No Data | | | | | | | | | | | | | | | | | | | | | |

| Casing Strings | | | | | | | | | |
|--|------------------|-----------------------|------------------------|-----------|-----------------------|-------------------|----------------|---------------|-----------------|
| Description | Set Depth (ftKB) | | Set Depth (TVD) (ftKB) | | OD (in) | Grade | Wt/Len (lb/ft) | Top Thread | P LeakOff (psi) |
| CONDUCTOR | 105.0 | | 105.0 | | 20 | H40 | 78.67 | | |
| SURFACE | 1,994.7 | | 1,993.7 | | 13 3/8 | J55 | 54.50 | BTC | 1,294.5 |
| INTERMEDIATE | 6,850.0 | | 6,845.3 | | 9 5/8 | L80-IC | 40.00 | BTC | 3,378.6 |
| Gas Emissions - Flare | | | | | | | | | |
| Type | | Method | | Dur (Min) | | Amount | | Units | Com |
| No Data | | | | | | | | | |
| Job Supply Amounts | | | | | | | | | |
| Supply Item Des | Type | Unit Label | Received | Consumed | Returned | Note | Cum On Loc | Cum Consumed | |
| DIESEL | MUD | GAL | 7309 | 4331 | | Texas Pride 79735 | 14,385 | 10750 | |
| DIESEL | FUEL | GAL | | 1764 | | | 11,078 | 11077 | |
| Mud Additive Amounts | | | | | | | | | |
| Des | | Type | | | Units | Rec | Consumed | On Loc | Cum Cons |
| TRANSPORTATION | | MISCELLANEOUS | | | EA | 1 | 1 | 0.0 | 1 |
| BARITE - BULK | | WEIGHTING MATERIAL | | | TON | | 1.91 | 13.11 | 10 |
| DD LEM | | LOW END MODIFIER | | | GAL | | 80 | 355.0 | 145 |
| DDF MUL | | ALL IN ONE EMULSIFIER | | | GAL | | 100 | 625.0 | 225 |
| DD TONE | | ORGANOPHILLIC CLAY | | | SACK | | 20 | 300.0 | 20 |
| LIME | | ALKALINITY CONTROL | | | SACK | | 22 | 62.0 | 26 |
| SOLTEX | | FILTRATE CONTROL | | | LB | | 11 | 27.0 | 52 |
| XMP GILSONITE | | FILTRATE CONTROL | | | LB | | 12 | 73.0 | 12 |
| Pump Operations | | | | | | | | | |
| Pump # | Make | Model | Liner Size (in) | | Stroke (in) | Vol/Stk (bbl/stk) | | P Max (psi) | |
| 1 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | 7,500.0 | |
| 2 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | 7,500.0 | |
| 3 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | 7,500.0 | |
| Pump Checks | | | | | | | | | |
| Pump # | Depth (ftKB) | | Time | | P (psi) | Strokes (spm) | | Q Flow (gpm) | Eff (%) |
| 1 | 10,241.0 | | 1/12/2023 04:39 | | 200.0 | 20 | | 70 | 95 |
| 1 | 10,241.0 | | 1/12/2023 04:40 | | 260.0 | 30 | | 106 | 95 |
| 1 | 10,241.0 | | 1/12/2023 04:40 | | 350.0 | 40 | | 141 | 95 |
| 2 | 10,241.0 | | 1/12/2023 04:40 | | 200.0 | 40 | | 30 | 20 |
| 2 | 10,241.0 | | 1/12/2023 04:40 | | 260.0 | 40 | | 44 | 30 |
| 2 | 10,241.0 | | 1/12/2023 04:40 | | 340.0 | 40 | | 59 | 40 |
| 3 | 10,241.0 | | 1/12/2023 04:42 | | 225.0 | 20 | | 70 | 95 |
| 3 | 10,241.0 | | 1/12/2023 04:42 | | 225.0 | 30 | | 106 | 95 |
| 3 | 10,241.0 | | 1/12/2023 04:42 | | 225.0 | 40 | | 141 | 95 |
| Deviation Surveys | | | | | | | | | |
| Date | | Description | | | Job | | | | |
| 11/13/2022 08:30 | | AS DRILL SURVEY | | | ODR, 11/13/2022 06:00 | | | | |
| Survey Data - All surveys for 24 hr reporting period | | | | | | | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | VS (ft) | | NS (ft) | EW (ft) | DLS (°/100ft) | |
| 7,774.00 | 0.15 | 108.58 | 7,769.27 | 121.41 | | -118.23 | 27.68 | 0.15 | |
| 7,865.00 | 0.12 | 31.58 | 7,860.27 | 121.41 | | -118.19 | 27.84 | 0.19 | |
| 7,955.00 | 0.61 | 21.73 | 7,950.27 | 120.96 | | -117.66 | 28.07 | 0.55 | |
| 8,045.00 | 0.62 | 192.36 | 8,040.27 | 121.00 | | -117.69 | 28.14 | 1.36 | |
| 8,136.00 | 0.48 | 262.32 | 8,131.26 | 121.40 | | -118.23 | 27.66 | 0.70 | |
| 8,226.00 | 0.41 | 265.59 | 8,221.26 | 121.31 | | -118.30 | 26.97 | 0.08 | |
| 8,317.00 | 0.09 | 172.56 | 8,312.26 | 121.32 | | -118.40 | 26.65 | 0.47 | |
| 8,407.00 | 9.76 | 181.92 | 8,401.82 | 128.74 | | -126.11 | 26.40 | 10.75 | |
| 8,498.00 | 20.30 | 194.88 | 8,489.61 | 150.03 | | -149.15 | 22.08 | 12.09 | |
| 8,588.00 | 29.01 | 175.97 | 8,571.45 | 185.29 | | -186.13 | 19.59 | 12.95 | |
| 8,678.00 | 34.43 | 161.81 | 8,648.08 | 232.25 | | -232.17 | 29.09 | 10.20 | |
| 8,769.00 | 43.82 | 162.86 | 8,718.60 | 289.50 | | -286.84 | 46.45 | 10.34 | |
| 8,859.00 | 49.48 | 168.66 | 8,780.38 | 354.87 | | -350.23 | 62.37 | 7.84 | |
| 8,950.00 | 58.21 | 163.19 | 8,834.05 | 428.23 | | -421.34 | 80.40 | 10.75 | |
| 9,040.00 | 67.78 | 162.35 | 8,874.87 | 508.20 | | -497.83 | 104.15 | 10.67 | |
| 9,131.00 | 76.30 | 165.39 | 8,902.91 | 594.62 | | -580.92 | 128.12 | 9.89 | |
| 9,221.00 | 84.62 | 168.01 | 8,917.81 | 683.28 | | -667.21 | 148.50 | 9.68 | |
| 9,312.00 | 89.77 | 163.06 | 8,922.27 | 774.11 | | -755.16 | 171.19 | 7.84 | |
| 9,402.00 | 87.98 | 166.16 | 8,924.03 | 864.06 | | -841.91 | 195.07 | 3.98 | |
| 9,492.00 | 89.43 | 165.28 | 8,926.07 | 954.03 | | -929.10 | 217.26 | 1.88 | |
| 9,583.00 | 89.86 | 167.09 | 8,926.63 | 1,045.02 | | -1,017.46 | 238.99 | 2.04 | |
| 9,673.00 | 89.58 | 165.61 | 8,927.07 | 1,135.02 | | -1,104.92 | 260.23 | 1.67 | |
| 9,763.00 | 89.06 | 166.00 | 8,928.14 | 1,225.01 | | -1,192.16 | 282.30 | 0.72 | |
| 9,854.00 | 89.09 | 165.38 | 8,929.61 | 1,316.00 | | -1,280.33 | 304.79 | 0.68 | |
| 9,944.00 | 88.90 | 166.32 | 8,931.19 | 1,405.98 | | -1,367.58 | 326.79 | 1.07 | |
| 10,035.00 | 89.00 | 166.10 | 8,932.85 | 1,496.97 | | -1,455.94 | 348.47 | 0.27 | |
| 10,125.00 | 89.49 | 165.82 | 8,934.04 | 1,586.96 | | -1,543.25 | 370.31 | 0.63 | |

| | | | | | | | |
|--|-------|--------------------------------------|--------------------|-----------------------|---------------------------|------------------------|-------|
| 10,215.00 | 90.04 | 164.88 | 8,934.41 | 1,676.95 | -1,630.32 | 393.07 | 1.21 |
| Formations | | | | | | | |
| Formation Name | | Prog Top Override (TVD SS) (ft(elv)) | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) | |
| 268_5_SPBY_L_A1 | | -5,987.0 | | 8,980.0 | 9,026.0 | 8,869.4 | |
| 268_5_SPBY_L_A2 | | -6,023.0 | | 9,016.0 | 9,077.0 | 8,887.8 | |
| 268_5_SPBY_L_A3 | | -6,108.0 | | 9,101.0 | 9,155.0 | 8,908.1 | |
| 268_6_SPBY_L_B1/JO MILL | | -6,262.0 | | 9,255.0 | 9,355.0 | 8,922.8 | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | | -6,321.0 | | 9,314.0 | 9,409.0 | 8,924.3 | |
| PBHL/TD | | -5,990.0 | | 8,983.0 | | | |
| 269_0_DEAN | | -6,633.0 | | 9,626.0 | | | |
| 270_0_WFMP_A1 | | -6,802.0 | | 9,795.0 | | | |
| 275_0_WFMP_B1 | | -7,009.0 | | 10,002.0 | | | |
| 276_0_WFMP_B2 | | -7,031.0 | | 10,024.0 | | | |
| 278_0_WFMP_B3 | | -7,085.0 | | 10,078.0 | | | |
| 280_0_WFMP_C1 | | -7,175.0 | | 10,168.0 | | | |
| 282_0_WFMP_C2 | | -7,275.0 | | 10,268.0 | | | |
| 292_0_WFMP_D | | -7,701.0 | | 10,694.0 | | | |
| 304_0_STRAWN | | -8,065.0 | | 11,058.0 | | | |
| Daily Contacts | | | | | | | |
| Job Contact | | Title | Office | Mobile | Email | | |
| JACKSON, AUSTIN, ENGINEER | | ENGINEER | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM | | |
| COX, BRYAN, ENGINEER | | ENGINEER | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM | | |
| KUMAR, DEV, ENGINEER | | ENGINEER | | 469-865-6956 | DEV.KUMAR@PXD.COM | | |
| POLYA, JOE, AREA DRILLING SUPERINTENDENT | | AREA DRILLING SUPERINTENDENT | 432-413-6147 | 432-352-3155 | JOE.POLYA@PXD.COM | | |
| GARZA, JOHN, ENGINEER | | ENGINEER | | 469-286-7746 | JOHN.GARZA@PXD.COM | | |
| PARSELL, VIC, SUPERINTENDENT | | SUPERINTENDENT | | 432-301-2539 | VIC.PARSELL@PXD.COM | | |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | | WELLSITE SUPERVISOR | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM | | |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | | WELLSITE SUPERVISOR | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM | | |
| LIGHTSEY, WADE, MUD ENGINEER | | MUD ENGINEER | | 210-834-7068 | WADE.LIGHTSEY@PXD.COM | | |
| RIG-ENSIGN 125, RIG PHONE | | RIG PHONE | 432-848-5232 | 432-894-8995 | DL-ENSIGN125@PXD.COM | | |
| DAFFRON, MIKE, SUPERINTENDENT | | SUPERINTENDENT | 432-385-9242 | 318-243-5902 | MIKE.DAFFRON@PXD.COM | | |
| Personnel Log | | | | | | | |
| Company | | | | | | | Count |
| PIONEER NATURAL RESOURCES USA INC | | | | | | | 2 |
| ENSIGN UNITED STATES DRILLING S W INC | | | | | | | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | | | | | | | 2 |
| GISLER BROTHERS LOGGING CO INC | | | | | | | 2 |

ENSIGN 125

Accept:12/18/2022

Release:

Days Since LTI:870.00

Days Since RI:870.00

Daily Drilling Report

PERMIAN ASSET TEAM

Job:ODR

Report Date:01/13/2023

Report #:9

DFS:7

AFE #:9023601

Total AFE + Sup:\$3,354,970.93

Daily Field Est. (Cost):\$141,106.62

| | | | | | | | | | | | |
|---|---------------------------|---|-----------------------------------|--------------------------|---|--|--|---------------------------------------|----------------------------------|---|------------|
| API/UWI 42-003-48666-0000 | | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | |
| SSN ID00034057 | | Property Sub | KB-Grd (ft) 25.00 | | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | TD Date | |
| Jobs | | | | | | | | | | | |
| Responsible Grp 2 | | | Responsible Grp 3 | | | Job Type | Start Date | | End Date | Job Status | |
| DRL ENG - JOHN GARZA | | | AREA TEAM 4 | | | ODR | 11/13/2022 06:00 | | | IN PROGRESS | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | | |
| Type | Subtype | | | Date | Note | | | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | | 2/5/2023 | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | | |
| Daily Operations | | | | | | | | | | | |
| Footage/Meterage (ft) 4,199.00 | | Drilling Hours 23.00 | % Rotating Time 100.00 | | End Depth (ftKB) 14,769.0 | Target Depth (ftKB) 19,534.0 | | Daily Field Est Total \$141,106.62 | | Cum Field Est To Date \$1,711,382.51 | |
| 24 HR ROP (ft/hr) 182.6 | Circulating Hours 1.00 | % Sliding Time 0.00 | End Depth (TVD) (ftKB) 8,968.7 | | Target Depth Depth (TVD) (ftKB) 8,983.0 | | Daily Mud Field Est Total \$12,008.92 | | Cum Mud Field Est \$33,537.42 | Total AFE + Sup \$3,354,970.93 | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 3,000.0 | | | Daily Goal - Next 24 3,000.0 | | | Goal Comments Goal Met | | |
| Backbuild No | Lateral Inclination | Last Casing String INTERMEDIATE, 6,850.0ftKB | | | | Next Casing String PROPOSED PRODUCTION, 19,536.0ftKB | | | | | |
| Avg Connection Gas 718.00 | | Avg Trip Gas 0.00 | Avg Background Gas 879.00 | | Max Connection Gas 1,206.00 | | Max Trip Gas 0.00 | | Max Drill Gas 1,095.00 | | |
| Operations Summary Drilling Production Lateral F/10,570' T/ (INC - .90.1°, AZI - 165.92°, Below - 1.8', Right - 1.9', AVG DLS -2.79) | | | | | | | | | | | |
| Operations Next Report Period Drilling Production Lateral @17769' | | | | | | | | | | | |
| Operations At Report Time Drilling Production Lateral @14769' | | | | | | | | | | | |
| Remarks No incidents reported, No spills recorded. Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 100%, Curve- 100%, Prod Lat- 53% | | | | | | | | | | | |
| Time Log | | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # |
| 06:00 | 11 | 17:00 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/10,570' T/12,590' (2020' @ 183 fph). Pumping @ 600 GPM w/2950 psi, Rotating @ 100RPM w/13K torque, 35-40K WOB, Diff 600 | | 10,570.0 | 12,590.0 | | |
| 17:00 | 0.5 | 17:30 | PROD, DRL LAT | RIG_SVC | NORMAL | Rig Service | | 12,590.0 | 12,590.0 | | |
| 17:30 | 10.25 | 03:45 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/12,590' T/14489' (1899' @ 185 fph). Pumping @ 600 GPM w/3300 psi, Rotating @ 100RPM w/15K torque, 35-40K WOB, Diff 600 | | 12,590.0 | 14,489.0 | | |
| 03:45 | 0.5 | 04:15 | PROD, DRL LAT | RIG_SVC | NORMAL | Rig Service | | 14,489.0 | 14,489.0 | | |
| 04:15 | 1.75 | 06:00 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/14,489' T/14769' (280' @ 160 fph). Pumping @ 600 GPM w/3300 psi, Rotating @ 100RPM w/15K torque, 38-40K WOB, Diff 600 | | 14,489.0 | 14,769.0 | | |
| Drill Strings | | | | | | | | | | | |
| BHA #4 , PRODUCTION - VERTICAL/CURVE/LATERAL | | | | | | | | | | | |
| Bit Run 4 | | Drill Bit 8 1/2, DD506TSX, 5333548 | | | | Bit Type PDC | | Make GE/BAKER HUGHES | | | |
| Nozzles (1/32") 12/12/12/14/14/14 | | Bit Total Fluid Area (nozzles) (in²) 0.78 | | IADC Bit Dull ----- | | Hours Drilled By Bit (hr) 49.25 | | Depth Drilled By Bit (ft) 7,851.00 | | | |
| BHA Drilling Time (hr) 49.25 | | BHA Depth Drilled (ft) 7,851.00 | | BHA ROP (ft/hr) 159.4 | | Depth In (ftKB) 6,918.0 | | Depth Out (ftKB) 14,769.0 | | | |
| Drill String Components | | | | | | | | | | | |
| Jts | Item Des | | | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | Make | |
| 321 | DRILL PIPE | | | 5 | 4.28 | 14,556.31 | 14,769.00 | 283,848.0 | 284 | RIG | |
| 1 | SUB - FILTER | | | 6 1/2 | 3.13 | 4.17 | 212.69 | | 0 | GE/BAKER HUGHES | |

| | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|-------------------------|--------------------------|-------------------------|---------------------------|----------------|---------------------|------------------------------|--------------------------|------------------------|---------------------------|-------------------------|---------------------------|------------|-----------------------|---------|-----------------------|--|-----------------------|--|
| 2 | DRILL PIPE | 5 | 3.88 | 90.00 | 208.52 | | | 0 | RIG | | | | | | | | | | | | |
| 1 | MOTOR - STABILIZER SLEEVE | 7 | 3.25 | 43.22 | 118.52 | | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | |
| 1 | SUB - SHOCK | 7 | 2.25 | 26.57 | 75.30 | | | 0 | OTHER (PROVIDE DESCRIPTION) | | | | | | | | | | | | |
| 1 | STABILIZER | 6 7/8 | 2.75 | 10.42 | 48.73 | | | 0 | DRILLING TOOLS INTERNATIONAL | | | | | | | | | | | | |
| 1 | RSS TOOL | 6.86 | 2.75 | 12.62 | 38.31 | | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | |
| 1 | MWD TOOL - NON-RETRIEVABLE | 6.69 | 2.75 | 15.63 | 25.69 | | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | |
| 1 | RSS TOOL | 6.99 | 2.75 | 9.36 | 10.06 | | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | |
| Mud Motors | | | | | | | | | | | | | | | | | | | | | |
| SN | | Bend Angle | | Bearing Type | | Lobe Config | | # Stages | Lwr Defln Type | Bit To Bend | | | | | | | | | | | |
| A67370 | | 0 | | NOT SEALED | | 7:8 | | 6.4 | | 0 | | | | | | | | | | | |
| Sensors | | | | | | | | | | | | | | | | | | | | | |
| Sensor Type | | | Sensor-Bit (ft) | | | | Note | | | | | | | | | | | | | | |
| GAMMA | | | 12.26 | | | | | | | | | | | | | | | | | | |
| DIRECTIONAL | | | 22.33 | | | | | | | | | | | | | | | | | | |
| Drilling Parameters | | | | | | | | | | | | | | | | | | | | | |
| Start Time | End Time | Start Depth (ftKB) | Int Depth (ft) | Int ROP (ft/hr) | WOB (1000lbf) | RPM | dP (SPP) (psi) | Q Flow (gpm) | SPP (psi) | ROP Average (ft/hr) | Drill Str Wt (1000lbf) | PU Str Wt (1000lbf) | SO Str Wt (1000lbf) | Off-Btm Str Wt (1000lbf) | Drill Tq | Off Btm Tq | TFO (°) | | | | |
| 06:00 | 17:00 | 10,570.0 | 2,020.00 | 183.6 | 38 | 100 | | 600 | 3,250.0 | 183.0 | 205 | 220 | 185 | 205 | 16.0 | 11.0 | | | | | |
| 17:00 | 17:30 | 12,590.0 | 0.00 | | 0 | 0 | | 600 | 3,250.0 | 0.0 | 205 | 220 | 185 | 205 | 16.0 | 11.0 | | | | | |
| 17:30 | 03:45 | 12,590.0 | 1,899.00 | 185.3 | 38 | 100 | | 600 | 3,300.0 | 185.0 | 205 | 220 | 185 | 205 | 16.0 | 11.0 | | | | | |
| 03:45 | 04:15 | 14,489.0 | 0.00 | | 0 | 0 | | 600 | 3,250.0 | 0.0 | 205 | 220 | 185 | 205 | 16.0 | 11.0 | | | | | |
| 04:15 | 06:00 | 14,489.0 | 280.00 | 160.0 | 38 | 100 | | 600 | 3,250.0 | 160.0 | 205 | 240 | 170 | 205 | 15.0 | 11.0 | | | | | |
| Hydraulic Calculations | | | | | | | | | | | | | | | | | | | | | |
| Dens Mud (lb/gal) | | ECD End (lb/gal) | | Bit Hydraulic Power (hp) | | HP/Area (hp/in²) | | Jet Vel (ft/s) | | Bit dP (psi) | | Min Open Hole AV (ft/min) | | Max Open Hole AV (ft/min) | | Vol DrillString (bbl) | | Vol Bit to Shoe (bbl) | | Vol Shoe to Top (bbl) | |
| 8.45 | | 8.83 | | 162.2 | | 2.9 | | 246.1 | | 463.4 | | 16.8 | | 632.5 | | 261.31 | | 362.02 | | 352.45 | |
| Mud Checks | | | | | | | | | | | | | | | | | | | | | |
| Time | | | Mud Company | | | | Type | | Depth (ftKB) | | Density (lb/gal) | | Funnel Viscosity (s/qt) | | | T Flowline (° F) | | | | | |
| 1/12/2023 22:00 | | | PIONEER DRILLING FLUIDS | | | | OIL BASE | | 13,700.0 | | 8.45 | | 52 | | | 118.0 | | | | | |
| pV (cP) | | YP (lb/100ft²) | | Vis 3rpm | | Vis 6rpm | | Filtrate (mL/30min) | | HTHP Filtrate (mL/30min) | | | HTHP Temperature (° F) | | | HTHP Pressure (psi) | | | | | |
| 12.0 | | 7.000 | | 4 | | 5 | | 0.0 | | 8.2 | | | 200.0 | | | 500.0 | | | | | |
| Solids (%) | | | Low Gravity Solids (%) | | | | | Sand (%) | | MBT (lb/bbl) | | | Pm (mL/mL) | | Pf (mL/mL) | | | | | | |
| 6.0 | | | 3.4 | | | | | 0.0 | | 0.0 | | | 0.000 | | 0.0 | | | | | | |
| Chlorides (mg/L) | | | Calcium (mg/L) | | | CaCl (ppm) | | Oil Water Ratio | | | Electric Stab (V) | | | Lime (lb/bbl) | | pH | | | | | |
| 13,000 | | | 5,000.000 | | | 0 | | 75/25 | | | 511.0 | | | 2.2 | | 0.0 | | | | | |
| Gel 10 sec (lb/100ft²) | | | | | Gel 10 min (lb/100ft²) | | | | | Gel 30 min (lb/100ft²) | | | | | | | | | | | |
| 6.000 | | | | | 11.000 | | | | | 13.000 | | | | | | | | | | | |
| Comment | | | | | | | | | | | | | | | | | | | | | |
| Recommended Fluid Treatment:MW 8.4-8.5ppg. Diesel at 7.13 BPH. FW at 3.57 BPH. Treatment: 1.5 ppb Tone to maintain rheologies, 1 ppb Lime to maintain ex lime, 1 ppb Mul to maintain es, 1.5 ppb LEM to maintain 6/3 rpm, 0.5 ppb Gilsonite & Soltex to maintain HTHP & shale stability. | | | | | | | | | | | | | | | | | | | | | |
| Drilling Fluid Activity Last 24 Hrs:Transferring OBM f/ frac & MT2 t/ active as needed for volume. Running centrifuge as needed to control MW. Rolled OBM frac 8. Rec 7,205 gal mud diesel. Rec load of OBM chemicals. | | | | | | | | | | | | | | | | | | | | | |
| Rig Activity Last 24 Hours:Drilled lateral f/ 9,400' t/ 13,700'. Drilling parameters: ROP- 200', WOB-38K, Rotary- 100 RPM, Bit- 220 RPM, Tq- 15 KLB-Ft, Diff- 550 PSI. P/U 220k, S/O 185k, ROT 205K. Lithology @ 13,230' 100% SH. Ftg Drilled Last 24hrs: 4,300'. Currently drilling lateral at time of report | | | | | | | | | | | | | | | | | | | | | |
| Last BOP Test | | | | | | | | | | | | | | | | | | | | | |
| Date | | | Test Type | | Item Tested | | | | Next Test Date | | | Com | | | | | | | | | |
| 1/10/2023 07:30 | | | BOP | | BOP'S, 12/18/2022 01:30 | | | | 1/19/2023 03:15 | | | Shell Test | | | | | | | | | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | | | | Depth (ftKB) | | | Dens Fluid (lb/gal) | | | | | | | | | | | | | |
| FORMATION INTEGRITY | | | | | 1,994.0 | | | 12.50 | | | | | | | | | | | | | |
| FORMATION INTEGRITY | | | | | 6,850.0 | | | 9.50 | | | | | | | | | | | | | |
| Casing Pressure Test | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | Test Subtype | | Date | | Item Tested | | | Failed? | | Time (min) | | P (psi) | | | | | | | | |
| CASING | | STANDARD | | 11/17/2022 17:30 | | SURFACE, 1,994.7ftKB | | | No | | 30.00 | | 1,000.0 | | | | | | | | |
| CASING | | STANDARD | | 1/10/2023 13:15 | | INTERMEDIATE, 6,850.0ftKB | | | No | | 30.00 | | 2,500.0 | | | | | | | | |
| Kick Offs & Key Depths | | | | | | | | | | | | | | | | | | | | | |
| Date | | | | Type | | Top Depth (ftKB) | | | Depth Top (TVD) (ftKB) | | | | | | | | | | | | |
| 1/11/2023 09:30 | | | | KICK OFF | | 8,342.0 | | | 8,337.3 | | | | | | | | | | | | |
| 1/11/2023 21:45 | | | | HEEL | | 9,270.0 | | | 8,921.2 | | | | | | | | | | | | |
| Casing Strings | | | | | | | | | | | | | | | | | | | | | |
| Description | | Set Depth (ftKB) | | Set Depth (TVD) (ftKB) | | OD (in) | | Grade | | Wt/Len (lb/ft) | | Top Thread | | P LeakOff (psi) | | | | | | | |
| CONDUCTOR | | 105.0 | | 105.0 | | 20 | | H40 | | 78.67 | | | | | | | | | | | |

| | | | | | | | | | |
|--|--------------|-----------------------|-----------------|-----------|-------------|-----------------------|---------------|--------------|--------------|
| SURFACE | 1,994.7 | 1,993.7 | | 13 3/8 | J55 | 54.50 | BTC | 1,294.5 | |
| INTERMEDIATE | 6,850.0 | 6,845.3 | | 9 5/8 | L80-IC | 40.00 | BTC | 3,378.6 | |
| Gas Emissions - Flare | | | | | | | | | |
| Type | | Method | | Dur (Min) | | Amount | | Units | Com |
| No Data | | | | | | | | | |
| Job Supply Amounts | | | | | | | | | |
| Supply Item Des | | Type | Unit Label | Received | Consumed | Returned | Note | Cum On Loc | Cum Consumed |
| DIESEL | | MUD | GAL | 7205 | 5294 | | | 16,296 | 16044 |
| DIESEL | | FUEL | GAL | | 3007 | | | 8,071 | 14084 |
| Mud Additive Amounts | | | | | | | | | |
| Des | | Type | | | Units | Rec | Consumed | On Loc | Cum Cons |
| TRANSPORTATION | | MISCELLANEOUS | | | EA | 1 | 1 | 0.0 | 3 |
| TRANSPORTATION | | MISCELLANEOUS | | | EA | 1 | 1 | 0.0 | 1 |
| DD LEM | | LOW END MODIFIER | | | GAL | | 205 | 150.0 | 350 |
| DDF MUL | | ALL IN ONE EMULSIFIER | | | GAL | | 300 | 325.0 | 525 |
| DD TONE | | ORGANOPHILLIC CLAY | | | SACK | | 20 | 280.0 | 40 |
| LIME | | ALKALINITY CONTROL | | | SACK | | 42 | 20.0 | 68 |
| SOLTEX | | FILTRATE CONTROL | | | LB | | 12 | 15.0 | 64 |
| XMP GILSONITE | | FILTRATE CONTROL | | | LB | | 12 | 61.0 | 24 |
| Pump Operations | | | | | | | | | |
| Pump # | Make | Model | Liner Size (in) | | Stroke (in) | Vol/Stk (bbl/stk) | | P Max (psi) | |
| 1 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | 7,500.0 | |
| 2 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | 7,500.0 | |
| 3 | BOMCO | F1600 | 5 1/2 | | 12.00 | 0.088 | | 7,500.0 | |
| Pump Checks | | | | | | | | | |
| Pump # | Depth (ftKB) | | Time | | P (psi) | Strokes (spm) | | Q Flow (gpm) | Eff (%) |
| 1 | 14,489.0 | | 1/13/2023 04:20 | | 225.0 | 20 | | 70 | 95 |
| 1 | 14,489.0 | | 1/13/2023 04:20 | | 310.0 | 30 | | 106 | 95 |
| 1 | 14,489.0 | | 1/13/2023 04:20 | | 395.0 | 40 | | 141 | 95 |
| 2 | 14,489.0 | | 1/13/2023 04:21 | | 245.0 | 20 | | 30 | 40 |
| 2 | 14,489.0 | | 1/13/2023 04:21 | | 320.0 | 30 | | 44 | 40 |
| 2 | 14,489.0 | | 1/13/2023 04:21 | | 395.0 | 40 | | 59 | 40 |
| 3 | 14,489.0 | | 1/13/2023 04:22 | | 245.0 | 20 | | 70 | 95 |
| 3 | 14,489.0 | | 1/13/2023 04:22 | | 320.0 | 30 | | 106 | 95 |
| 3 | 14,489.0 | | 1/13/2023 04:22 | | 400.0 | 40 | | 141 | 95 |
| Deviation Surveys | | | | | | | | | |
| Date | | | Description | | | Job | | | |
| 11/13/2022 08:30 | | | AS DRILL SURVEY | | | ODR, 11/13/2022 06:00 | | | |
| Survey Data - All surveys for 24 hr reporting period | | | | | | | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | VS (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | | |
| 10,577.00 | 89.52 | 163.67 | 8,932.32 | 2,038.84 | -1,979.62 | 487.90 | 0.96 | | |
| 10,667.00 | 88.38 | 165.61 | 8,933.97 | 2,128.79 | -2,066.39 | 511.74 | 2.50 | | |
| 10,758.00 | 90.35 | 163.87 | 8,934.98 | 2,219.76 | -2,154.16 | 535.69 | 2.89 | | |
| 10,848.00 | 90.13 | 167.00 | 8,934.61 | 2,309.75 | -2,241.26 | 558.32 | 3.49 | | |
| 10,938.00 | 88.53 | 162.72 | 8,935.66 | 2,399.70 | -2,328.11 | 581.81 | 5.08 | | |
| 11,029.00 | 90.13 | 165.45 | 8,936.72 | 2,490.64 | -2,415.60 | 606.76 | 3.48 | | |
| 11,119.00 | 88.96 | 163.70 | 8,937.44 | 2,580.61 | -2,502.35 | 630.70 | 2.34 | | |
| 11,210.00 | 88.66 | 169.44 | 8,939.33 | 2,671.55 | -2,590.81 | 651.82 | 6.31 | | |
| 11,300.00 | 89.55 | 168.14 | 8,940.73 | 2,761.42 | -2,679.08 | 669.31 | 1.75 | | |
| 11,390.00 | 90.32 | 169.39 | 8,940.84 | 2,851.30 | -2,767.35 | 686.85 | 1.63 | | |
| 11,480.00 | 89.64 | 167.85 | 8,940.87 | 2,941.19 | -2,855.58 | 704.61 | 1.87 | | |
| 11,571.00 | 89.36 | 166.46 | 8,941.66 | 3,032.16 | -2,944.29 | 724.84 | 1.56 | | |
| 11,661.00 | 89.64 | 165.73 | 8,942.45 | 3,122.16 | -3,031.65 | 746.46 | 0.87 | | |
| 11,752.00 | 88.19 | 165.46 | 8,944.17 | 3,213.14 | -3,119.77 | 769.10 | 1.62 | | |
| 11,842.00 | 89.64 | 166.45 | 8,945.88 | 3,303.12 | -3,207.06 | 790.93 | 1.95 | | |
| 11,933.00 | 89.73 | 165.89 | 8,946.38 | 3,394.12 | -3,295.42 | 812.69 | 0.62 | | |
| 12,023.00 | 89.70 | 166.05 | 8,946.82 | 3,484.12 | -3,382.74 | 834.50 | 0.18 | | |
| 12,114.00 | 90.07 | 165.07 | 8,947.01 | 3,575.11 | -3,470.86 | 857.20 | 1.15 | | |
| 12,203.00 | 88.72 | 164.63 | 8,947.95 | 3,664.09 | -3,556.76 | 880.45 | 1.60 | | |
| 12,294.00 | 89.21 | 164.86 | 8,949.59 | 3,755.06 | -3,644.54 | 904.39 | 0.59 | | |
| 12,384.00 | 89.52 | 164.46 | 8,950.59 | 3,845.03 | -3,731.33 | 928.20 | 0.56 | | |
| 12,475.00 | 88.66 | 165.96 | 8,952.03 | 3,936.01 | -3,819.30 | 951.43 | 1.90 | | |
| 12,565.00 | 89.80 | 166.06 | 8,953.24 | 4,026.00 | -3,906.62 | 973.18 | 1.27 | | |
| 12,656.00 | 89.00 | 166.18 | 8,954.19 | 4,116.99 | -3,994.96 | 995.01 | 0.89 | | |
| 12,746.00 | 89.30 | 166.08 | 8,955.53 | 4,206.98 | -4,082.32 | 1,016.58 | 0.35 | | |
| 12,836.00 | 88.47 | 166.13 | 8,957.28 | 4,296.97 | -4,169.67 | 1,038.19 | 0.92 | | |
| 12,927.00 | 89.09 | 166.23 | 8,959.22 | 4,387.94 | -4,258.02 | 1,059.92 | 0.69 | | |
| 13,017.00 | 88.56 | 165.82 | 8,961.06 | 4,477.92 | -4,345.34 | 1,081.66 | 0.74 | | |
| 13,107.00 | 89.67 | 165.83 | 8,962.45 | 4,567.91 | -4,432.58 | 1,103.69 | 1.23 | | |

| | | | | | | | |
|-----------|-------|--------|----------|----------|-----------|----------|------|
| 13,198.00 | 90.41 | 166.29 | 8,962.39 | 4,658.91 | -4,520.90 | 1,125.61 | 0.96 |
| 13,288.00 | 89.12 | 165.97 | 8,962.76 | 4,748.91 | -4,608.28 | 1,147.19 | 1.48 |
| 13,379.00 | 89.36 | 166.32 | 8,963.97 | 4,839.90 | -4,696.62 | 1,168.98 | 0.47 |
| 13,469.00 | 89.64 | 166.28 | 8,964.75 | 4,929.89 | -4,784.06 | 1,190.29 | 0.31 |
| 13,560.00 | 89.61 | 165.80 | 8,965.35 | 5,020.89 | -4,872.37 | 1,212.24 | 0.53 |
| 13,650.00 | 89.43 | 166.24 | 8,966.10 | 5,110.88 | -4,959.70 | 1,233.99 | 0.53 |
| 13,741.00 | 89.70 | 166.05 | 8,966.79 | 5,201.88 | -5,048.05 | 1,255.78 | 0.36 |
| 13,831.00 | 89.98 | 165.83 | 8,967.04 | 5,291.88 | -5,135.35 | 1,277.64 | 0.40 |
| 13,921.00 | 90.04 | 165.79 | 8,967.03 | 5,381.88 | -5,222.60 | 1,299.70 | 0.08 |
| 14,012.00 | 89.77 | 166.05 | 8,967.18 | 5,472.88 | -5,310.87 | 1,321.84 | 0.41 |
| 14,102.00 | 90.29 | 165.72 | 8,967.13 | 5,562.88 | -5,398.15 | 1,343.79 | 0.68 |
| 14,193.00 | 89.98 | 166.16 | 8,966.92 | 5,653.88 | -5,486.43 | 1,365.90 | 0.59 |
| 14,283.00 | 90.13 | 166.01 | 8,966.83 | 5,743.88 | -5,573.78 | 1,387.54 | 0.24 |
| 14,374.00 | 89.46 | 166.24 | 8,967.16 | 5,834.88 | -5,662.13 | 1,409.36 | 0.78 |

| Formations | | | | | | |
|---------------------------------------|--------------------------------------|--------------------|-----------------------|---------------------|------------------------|--|
| Formation Name | Prog Top Override (TVD SS) (ft(elv)) | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) | |
| 268_5_SPBY_L_A1 | -5,987.0 | | 8,980.0 | 9,026.0 | 8,869.4 | |
| 268_5_SPBY_L_A2 | -6,023.0 | | 9,016.0 | 9,077.0 | 8,887.8 | |
| 268_5_SPBY_L_A3 | -6,108.0 | | 9,101.0 | 9,155.0 | 8,908.1 | |
| 268_6_SPBY_L_B1/JO MILL | -6,262.0 | | 9,255.0 | 9,355.0 | 8,922.8 | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | -6,321.0 | | 9,314.0 | 9,409.0 | 8,924.3 | |
| PBHL/TD | -5,990.0 | | 8,983.0 | | | |
| 269_0_DEAN | -6,633.0 | | 9,626.0 | | | |
| 270_0_WFMP_A1 | -6,802.0 | | 9,795.0 | | | |
| 275_0_WFMP_B1 | -7,009.0 | | 10,002.0 | | | |
| 276_0_WFMP_B2 | -7,031.0 | | 10,024.0 | | | |
| 278_0_WFMP_B3 | -7,085.0 | | 10,078.0 | | | |
| 280_0_WFMP_C1 | -7,175.0 | | 10,168.0 | | | |
| 282_0_WFMP_C2 | -7,275.0 | | 10,268.0 | | | |
| 292_0_WFMP_D | -7,701.0 | | 10,694.0 | | | |
| 304_0_STRAWN | -8,065.0 | | 11,058.0 | | | |

| Daily Contacts | | | | |
|---|------------------------------|--------------|--------------|---------------------------|
| Job Contact | Title | Office | Mobile | Email |
| JACKSON, AUSTIN, ENGINEER | ENGINEER | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM |
| COX, BRYAN, ENGINEER | ENGINEER | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM |
| KUMAR, DEV, ENGINEER | ENGINEER | | 469-865-6956 | DEV.KUMAR@PXD.COM |
| RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT | AREA DRILLING SUPERINTENDENT | 432-571-2557 | 432-557-8128 | KEN.RICHARDSON@PXD.COM |
| GARZA, JOHN, ENGINEER | ENGINEER | | 469-286-7746 | JOHN.GARZA@PXD.COM |
| PARSELL, VIC, SUPERINTENDENT | SUPERINTENDENT | | 432-301-2539 | VIC.PARSELL@PXD.COM |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM |
| LIGHTSEY, WADE, MUD ENGINEER | MUD ENGINEER | | 210-834-7068 | WADE.LIGHTSEY@PXD.COM |
| RIG- ENSIGN 125, RIG PHONE | RIG PHONE | 432-848-5232 | 432-894-8995 | DL- ENSIGN125@PXD.COM |
| DAFFRON, MIKE, SUPERINTENDENT | SUPERINTENDENT | 432-385-9242 | 318-243-5902 | MIKE.DAFFRON@PXD.COM |

| Personnel Log | |
|---------------------------------------|-------|
| Company | Count |
| PIONEER NATURAL RESOURCES USA INC | 2 |
| ENSIGN UNITED STATES DRILLING S W INC | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | 2 |
| GISLER BROTHERS LOGGING CO INC | 2 |

ENSIGN 125

Accept:12/18/2022

Release:

Days Since LTI:871.00

Days Since RI:871.00

Daily Drilling Report

PERMIAN ASSET TEAM

Job:ODR

Report Date:01/14/2023

Report #:10

DFS:8

AFE #:9023601

Total AFE + Sup:\$3,354,970.93

Daily Field Est. (Cost):\$181,120.38

| | | | | | | | | | | | |
|---|---------------------------|---|-----------------------------------|--------------------------|---|--|--|--|----------------------------------|---|------------|
| API/UWI 42-003-48666-0000 | | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | |
| SSN ID00034057 | | Property Sub | KB-Grd (ft) 25.00 | | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | TD Date | |
| Jobs | | | | | | | | | | | |
| Responsible Grp 2 | | | Responsible Grp 3 | | | Job Type | Start Date | | End Date | Job Status | |
| DRL ENG - JOHN GARZA | | | AREA TEAM 4 | | | ODR | 11/13/2022 06:00 | | | IN PROGRESS | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | | |
| Type | Subtype | | | Date | Note | | | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | | 2/5/2023 | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | | |
| Daily Operations | | | | | | | | | | | |
| Footage/Meterage (ft) 4,016.00 | | Drilling Hours 23.00 | % Rotating Time 100.00 | | End Depth (ftKB) 18,785.0 | Target Depth (ftKB) 19,534.0 | | Daily Field Est Total \$181,120.38 | | Cum Field Est To Date \$1,892,502.89 | |
| 24 HR ROP (ft/hr) 174.6 | Circulating Hours 1.00 | % Sliding Time 0.00 | End Depth (TVD) (ftKB) 8,962.0 | | Target Depth Depth (TVD) (ftKB) 8,983.0 | | Daily Mud Field Est Total \$14,979.65 | | Cum Mud Field Est \$48,517.07 | Total AFE + Sup \$3,354,970.93 | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 3,000.0 | | | Daily Goal - Next 24 730.0 | | | Goal Comments | | |
| Backbuild No | Lateral Inclination | Last Casing String INTERMEDIATE, 6,850.0ftKB | | | | Next Casing String PRODUCTION, 19,520.0ftKB | | | | | |
| Avg Connection Gas 719.00 | | Avg Trip Gas 0.00 | Avg Background Gas 811.00 | | Max Connection Gas 926.00 | | Max Trip Gas 0.00 | | Max Drill Gas 914.00 | | |
| Operations Summary Drilling Production Lateral F/14,769 T/18,785' (INC - 89.86°, AZI - 165.52°, Above - 1.78', Leftt - 1', AVG DLS -1.95) | | | | | | | | | | | |
| Operations Next Report Period Drilling Production Lateral T/19515' + -, Perform K&M cleanup cycle,TOOH, R/U casing tools, Run production casing | | | | | | | | | | | |
| Operations At Report Time Drilling Production Lateral @18,785' | | | | | | | | | | | |
| Remarks No incidents reported, No spills recorded. Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 100%, Curve- 100%, Prod Lat- 93% | | | | | | | | | | | |
| Time Log | | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # |
| 06:00 | 11 | 17:00 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/14,769' T/16,568 (1,799' @ 163.5 fph). Pumping @ 600 GPM w/3300 psi, Rotating @ 100RPM w/18K torque, 38-45K WOB, Diff 750 | | 14,769.0 | 16,568.0 | | |
| 17:00 | 0.5 | 17:30 | PROD, DRL LAT | RIG_SVC | NORMAL | Rig Service | | 16,568.0 | 16,568.0 | | |
| 17:30 | 10.25 | 03:45 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/16,568' T/18463 (1895' @ (184 fph). Pumping @ 600 GPM w/3900 psi, Rotating @ 100RPM w/19K torque, 38-45K WOB, Diff 850 | | 16,568.0 | 18,463.0 | | |
| 03:45 | 0.5 | 04:15 | PROD, DRL LAT | RIG_SVC | NORMAL | Rig Service | | 18,463.0 | 18,463.0 | | |
| 04:15 | 1.75 | 06:00 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/18,463' T/18,785' (322' @ (184 fph). Pumping @ 600 GPM w/3900 psi, Rotating @ 100RPM w/19K torque, 38-45K WOB, Diff 850 | | 18,463.0 | 18,785.0 | | |
| Drill Strings | | | | | | | | | | | |
| BHA #4 , PRODUCTION - VERTICAL/CURVE/LATERAL | | | | | | | | | | | |
| Bit Run 4 | | Drill Bit 8 1/2, DD506TSX, 5333548 | | | | Bit Type PDC | | Make GE/BAKER HUGHES | | | |
| Nozzles (1/32") 12/12/12/14/14/14 | | Bit Total Fluid Area (nozzles) (in²) 0.78 | | IADC Bit Dull ----- | | Hours Drilled By Bit (hr) 72.25 | | Depth Drilled By Bit (ft) 11,867.00 | | | |
| BHA Drilling Time (hr) 72.25 | | BHA Depth Drilled (ft) 11,867.00 | | BHA ROP (ft/hr) 164.2 | | Depth In (ftKB) 6,918.0 | | Depth Out (ftKB) 18,785.0 | | | |
| Drill String Components | | | | | | | | | | | |
| Jts | Item Des | | | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | Make | |
| 410 | DRILL PIPE | | | 5 | 4.28 | 18,572.31 | 18,785.00 | 362,160.0 | 362 | RIG | |
| 1 | SUB - FILTER | | | 6 1/2 | 3.13 | 4.17 | 212.69 | | 0 | GE/BAKER HUGHES | |

| | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|--------------------|-------------------------|--------------------------|-------------------------|---------------------------|----------------|---------------------|------------------------------|--------------------------|------------------------|---------------------------|-------------------------|---------------------------|---------------|-----------------------|---------|-----------------------|--|-----------------------|--|
| 2 | DRILL PIPE | 5 | 3.88 | 90.00 | 208.52 | | | 0 | RIG | | | | | | | | | | | | |
| 1 | MOTOR - STABILIZER SLEEVE | 7 | 3.25 | 43.22 | 118.52 | | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | |
| 1 | SUB - SHOCK | 7 | 2.25 | 26.57 | 75.30 | | | 0 | OTHER (PROVIDE DESCRIPTION) | | | | | | | | | | | | |
| 1 | STABILIZER | 6 7/8 | 2.75 | 10.42 | 48.73 | | | 0 | DRILLING TOOLS INTERNATIONAL | | | | | | | | | | | | |
| 1 | RSS TOOL | 6.86 | 2.75 | 12.62 | 38.31 | | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | |
| 1 | MWD TOOL - NON-RETRIEVABLE | 6.69 | 2.75 | 15.63 | 25.69 | | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | |
| 1 | RSS TOOL | 6.99 | 2.75 | 9.36 | 10.06 | | | 0 | GE/BAKER HUGHES | | | | | | | | | | | | |
| Mud Motors | | | | | | | | | | | | | | | | | | | | | |
| SN | | Bend Angle | | Bearing Type | | Lobe Config | | # Stages | | Lwr Defln Type | | Bit To Bend | | | | | | | | | |
| A67370 | | 0 | | NOT SEALED | | 7:8 | | 6.4 | | | | 0 | | | | | | | | | |
| Sensors | | | | | | | | | | | | | | | | | | | | | |
| Sensor Type | | | | Sensor-Bit (ft) | | | | Note | | | | | | | | | | | | | |
| GAMMA | | | | 12.26 | | | | | | | | | | | | | | | | | |
| DIRECTIONAL | | | | 22.33 | | | | | | | | | | | | | | | | | |
| Drilling Parameters | | | | | | | | | | | | | | | | | | | | | |
| Start Time | End Time | Start Depth (ftKB) | Int Depth (ft) | Int ROP (ft/hr) | WOB (1000lbf) | RPM | dP (SPP) (psi) | Q Flow (gpm) | SPP (psi) | ROP Average (ft/hr) | Drill Str Wt (1000lbf) | PU Str Wt (1000lbf) | SO Str Wt (1000lbf) | Off-Btm Str Wt (1000lbf) | Drill Tq | Off Btm Tq | TFO (") | | | | |
| 06:00 | 17:00 | 14,769.0 | 1,799.00 | 163.5 | 44 | 100 | | 600 | 3,250.0 | 163.5 | 205 | 240 | 160 | 205 | 18.0 | 7.0 | | | | | |
| 17:00 | 17:30 | 16,568.0 | 0.00 | | 0 | 0 | | 600 | 3,250.0 | 0.0 | 205 | 240 | 160 | 205 | 18.0 | 7.0 | | | | | |
| 17:30 | 03:45 | 16,568.0 | 1,895.00 | 184.9 | 44 | 100 | | 600 | 3,900.0 | 184.0 | 205 | 245 | 155 | 205 | 18.0 | 7.0 | | | | | |
| 03:45 | 04:15 | 18,463.0 | 0.00 | | 0 | 0 | | 600 | 3,300.0 | 0.0 | 205 | 245 | 155 | 205 | 18.0 | 7.0 | | | | | |
| 04:15 | 06:00 | 18,463.0 | 322.00 | 184.0 | 45 | 100 | | 600 | 3,900.0 | 184.0 | 205 | 245 | 155 | 205 | 19.0 | 7.0 | | | | | |
| Hydraulic Calculations | | | | | | | | | | | | | | | | | | | | | |
| Dens Mud (lb/gal) | | ECD End (lb/gal) | | Bit Hydraulic Power (hp) | | HP/Area (hp/in²) | | Jet Vel (ft/s) | | Bit dP (psi) | | Min Open Hole AV (ft/min) | | Max Open Hole AV (ft/min) | | Vol DrillString (bbl) | | Vol Bit to Shoe (bbl) | | Vol Shoe to Top (bbl) | |
| 8.50 | | 8.98 | | 163.2 | | 2.9 | | 246.1 | | 466.2 | | 16.8 | | 632.5 | | 332.77 | | 546.36 | | 352.45 | |
| Mud Checks | | | | | | | | | | | | | | | | | | | | | |
| Time | | | Mud Company | | | | Type | | Depth (ftKB) | | Density (lb/gal) | | Funnel Viscosity (s/qt) | | | T Flowline (° F) | | | | | |
| 1/13/2023 23:00 | | | PIONEER DRILLING FLUIDS | | | | OIL BASE | | 17,770.0 | | 8.50 | | 52 | | | 115.0 | | | | | |
| pV (cP) | | YP (lbf/100ft²) | | Vis 3rpm | | Vis 6rpm | | Filtrate (mL/30min) | | HTHP Filtrate (mL/30min) | | | HTHP Temperature (° F) | | | HTHP Pressure (psi) | | | | | |
| 11.0 | | 7.000 | | 4 | | 5 | | 0.0 | | 8.0 | | | 200.0 | | | 500.0 | | | | | |
| Solids (%) | | | Low Gravity Solids (%) | | | | | Sand (%) | | MBT (lb/bbl) | | | Pm (mL/mL) | | Pf (mL/mL) | | | | | | |
| 6.0 | | | 2.9 | | | | | 0.0 | | 0.0 | | | 0.000 | | 0.0 | | | | | | |
| Chlorides (mg/L) | | | Calcium (mg/L) | | | CaCl (ppm) | | | Oil Water Ratio | | | Electric Stab (V) | | | Lime (lb/bbl) | | pH | | | | |
| 12,000 | | | 6,000.000 | | | 0 | | | 76.6/23.4 | | | 487.0 | | | 2.1 | | 0.0 | | | | |
| Gel 10 sec (lbf/100ft²) | | | | | | Gel 10 min (lbf/100ft²) | | | | | | Gel 30 min (lbf/100ft²) | | | | | | | | | |
| 6.000 | | | | | | 11.000 | | | | | | 13.000 | | | | | | | | | |
| Comment | | | | | | | | | | | | | | | | | | | | | |
| Recommeded Fluid Treatment:MW 8.4-8.5ppg. Diesel at 7.13 BPH. FW at 4.28 BPH. Treatment: 2.0 ppb Tone to maintain rheologies, 1 ppb Lime to maintain ex lime, 1 ppb Mul to maintain es, 1.5 ppb LEM to maintain 6/3 rpm, 0.5 ppb Gilsonite & Soltex to maintain HTHP & shale stability. | | | | | | | | | | | | | | | | | | | | | |
| Drilling Fluid Activity Last 24 Hrs:Transferring OBM f/ frac & MT2 t/ active as needed for volume. Running centrifuge as needed to control MW. Rolled OBM frac 8. Rec 7,302 gal mud diesel. | | | | | | | | | | | | | | | | | | | | | |
| Rig Activity Last 24 Hours:Drilled lateral f/ 13,700' t/ 17,770'. Drilling parameters: ROP- 214', WOB-45K, Rotary- 100 RPM, Bit- 220 RPM, Tq- 19 KLB-Ft, Diff- 750 PSI. P/U 240k, S/O 160k, ROT 205K. Lithology @ 17,460' 100% SH. Ftg Drilled Last 24hrs: 4,070'. Currently drilling lateral at time of report. | | | | | | | | | | | | | | | | | | | | | |
| Last BOP Test | | | | | | | | | | | | | | | | | | | | | |
| Date | | | Test Type | | Item Tested | | | | | Next Test Date | | | Com | | | | | | | | |
| 1/10/2023 07:30 | | | BOP | | BOP'S, 12/18/2022 01:30 | | | | | 1/19/2023 03:15 | | | Shell Test | | | | | | | | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | | | | | Depth (ftKB) | | | | Dens Fluid (lb/gal) | | | | | | | | | | | |
| FORMATION INTEGRITY | | | | | | 1,994.0 | | | | 12.50 | | | | | | | | | | | |
| FORMATION INTEGRITY | | | | | | 6,850.0 | | | | 9.50 | | | | | | | | | | | |
| Casing Pressure Test | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | Test Subtype | | Date | | Item Tested | | | | Failed? | | Time (min) | | P (psi) | | | | | | | |
| CASING | | STANDARD | | 11/17/2022 17:30 | | SURFACE, 1,994.7ftKB | | | | No | | 30.00 | | 1,000.0 | | | | | | | |
| CASING | | STANDARD | | 1/10/2023 13:15 | | INTERMEDIATE, 6,850.0ftKB | | | | No | | 30.00 | | 2,500.0 | | | | | | | |
| Kick Offs & Key Depths | | | | | | | | | | | | | | | | | | | | | |
| Date | | | | Type | | Top Depth (ftKB) | | | | Depth Top (TVD) (ftKB) | | | | | | | | | | | |
| 1/11/2023 09:30 | | | | KICK OFF | | 8,342.0 | | | | 8,337.3 | | | | | | | | | | | |
| 1/11/2023 21:45 | | | | HEEL | | 9,270.0 | | | | 8,921.2 | | | | | | | | | | | |
| Casing Strings | | | | | | | | | | | | | | | | | | | | | |
| Description | | Set Depth (ftKB) | | Set Depth (TVD) (ftKB) | | OD (in) | | Grade | | Wt/Len (lb/ft) | | Top Thread | | P LeakOff (psi) | | | | | | | |
| CONDUCTOR | | 105.0 | | 105.0 | | 20 | | H40 | | 78.67 | | | | | | | | | | | |
| SURFACE | | 1,994.7 | | 1,993.7 | | 13 3/8 | | J55 | | 54.50 | | BTC | | 1,294.5 | | | | | | | |

| | | | | | | | | | |
|--|--------------|-----------------------|-----------------|-----------|-------------|-----------------------|-------------------|--------------|---------------|
| INTERMEDIATE | 6,850.0 | | 6,845.3 | | 9 5/8 | L80-IC | 40.00 | BTC | 3,378.6 |
| Gas Emissions - Flare | | | | | | | | | |
| Type | | Method | | Dur (Min) | | Amount | | Units | Com |
| No Data | | | | | | | | | |
| Job Supply Amounts | | | | | | | | | |
| Supply Item Des | Type | Unit Label | Received | Consumed | Returned | Note | | Cum On Loc | Cum Consumed |
| DIESEL | MUD | GAL | 7302 | 9637 | | Texas Pride 78786 | | 13,961 | 25681 |
| DIESEL | FUEL | GAL | 7306 | 2875 | | Texas Pride 79734 | | 12,502 | 16959 |
| Mud Additive Amounts | | | | | | | | | |
| Des | | Type | | | Units | Rec | Consumed | On Loc | Cum Cons |
| DD LEM | | LOW END MODIFIER | | | GAL | | 425 | 825.0 | 775 |
| DDF MUL | | ALL IN ONE EMULSIFIER | | | GAL | | 325 | 825.0 | 850 |
| DD TONE | | ORGANOPHILLIC CLAY | | | SACK | | 30 | 250.0 | 70 |
| LIME | | ALKALINITY CONTROL | | | SACK | | 50 | 220.0 | 118 |
| SOLTEX | | FILTRATE CONTROL | | | LB | | 10 | 85.0 | 74 |
| XMP GILSONITE | | FILTRATE CONTROL | | | LB | | 10 | 101.0 | 34 |
| Pump Operations | | | | | | | | | |
| Pump # | Make | Model | Liner Size (in) | | Stroke (in) | | Vol/Stk (bbl/stk) | | P Max (psi) |
| 1 | BOMCO | F1600 | 5 1/2 | | 12.00 | | 0.088 | | 7,500.0 |
| 2 | BOMCO | F1600 | 5 1/2 | | 12.00 | | 0.088 | | 7,500.0 |
| 3 | BOMCO | F1600 | 5 1/2 | | 12.00 | | 0.088 | | 7,500.0 |
| Pump Checks | | | | | | | | | |
| Pump # | Depth (ftKB) | | Time | | P (psi) | Strokes (spm) | | Q Flow (gpm) | Eff (%) |
| 1 | 18,463.0 | | 1/14/2023 04:11 | | 340.0 | 20 | | 70 | 95 |
| 1 | 18,463.0 | | 1/14/2023 04:11 | | 425.0 | 30 | | 106 | 95 |
| 1 | 18,463.0 | | 1/14/2023 04:11 | | 510.0 | 40 | | 141 | 95 |
| 2 | 18,463.0 | | 1/14/2023 04:24 | | 330.0 | 20 | | 30 | 40 |
| 2 | 18,463.0 | | 1/14/2023 04:24 | | 420.0 | 30 | | 44 | 40 |
| 2 | 18,463.0 | | 1/14/2023 04:24 | | 500.0 | 40 | | 59 | 40 |
| 3 | 18,463.0 | | 1/14/2023 04:25 | | 315.0 | 20 | | 70 | 95 |
| 3 | 18,463.0 | | 1/14/2023 04:25 | | 400.0 | 30 | | 106 | 95 |
| 3 | 18,463.0 | | 1/14/2023 04:25 | | 530.0 | 40 | | 141 | 95 |
| Deviation Surveys | | | | | | | | | |
| Date | | | Description | | | Job | | | |
| 11/13/2022 08:30 | | | AS DRILL SURVEY | | | ODR, 11/13/2022 06:00 | | | |
| Survey Data - All surveys for 24 hr reporting period | | | | | | | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | VS (ft) | | NS (ft) | EW (ft) | | DLS (°/100ft) |
| 14,826.00 | 89.55 | 165.72 | 8,965.06 | 6,286.86 | | -6,100.31 | 1,520.21 | | 1.04 |
| 14,916.00 | 89.77 | 165.65 | 8,965.60 | 6,376.86 | | -6,187.51 | 1,542.46 | | 0.26 |
| 15,006.00 | 89.33 | 165.44 | 8,966.31 | 6,466.85 | | -6,274.66 | 1,564.93 | | 0.54 |
| 15,097.00 | 89.89 | 165.45 | 8,966.92 | 6,557.85 | | -6,362.74 | 1,587.80 | | 0.62 |
| 15,187.00 | 90.04 | 165.77 | 8,966.98 | 6,647.85 | | -6,449.91 | 1,610.16 | | 0.39 |
| 15,277.00 | 89.30 | 165.32 | 8,967.50 | 6,737.84 | | -6,537.06 | 1,632.63 | | 0.96 |
| 15,368.00 | 89.80 | 165.65 | 8,968.21 | 6,828.84 | | -6,625.15 | 1,655.43 | | 0.66 |
| 15,458.00 | 89.43 | 165.09 | 8,968.82 | 6,918.83 | | -6,712.23 | 1,678.17 | | 0.75 |
| 15,548.00 | 89.80 | 165.67 | 8,969.42 | 7,008.82 | | -6,799.32 | 1,700.88 | | 0.76 |
| 15,639.00 | 90.26 | 166.10 | 8,969.37 | 7,099.82 | | -6,887.57 | 1,723.07 | | 0.69 |
| 15,729.00 | 89.70 | 165.56 | 8,969.41 | 7,189.82 | | -6,974.83 | 1,745.11 | | 0.86 |
| 15,820.00 | 89.98 | 165.43 | 8,969.66 | 7,280.82 | | -7,062.93 | 1,767.90 | | 0.34 |
| 15,910.00 | 91.00 | 166.15 | 8,968.89 | 7,370.82 | | -7,150.17 | 1,789.99 | | 1.39 |
| 16,001.00 | 91.43 | 165.57 | 8,966.96 | 7,461.79 | | -7,238.39 | 1,812.21 | | 0.79 |
| 16,091.00 | 91.46 | 166.20 | 8,964.69 | 7,551.77 | | -7,325.65 | 1,834.16 | | 0.70 |
| 16,181.00 | 90.41 | 165.86 | 8,963.22 | 7,641.75 | | -7,412.97 | 1,855.88 | | 1.23 |
| 16,272.00 | 89.55 | 165.56 | 8,963.25 | 7,732.75 | | -7,501.16 | 1,878.34 | | 1.00 |
| 16,362.00 | 89.77 | 165.61 | 8,963.79 | 7,822.75 | | -7,588.32 | 1,900.75 | | 0.25 |
| 16,453.00 | 89.95 | 165.52 | 8,964.01 | 7,913.75 | | -7,676.45 | 1,923.43 | | 0.22 |
| 16,543.00 | 90.20 | 166.15 | 8,963.89 | 8,003.75 | | -7,763.71 | 1,945.45 | | 0.75 |
| 16,633.00 | 90.69 | 165.74 | 8,963.19 | 8,093.74 | | -7,851.01 | 1,967.31 | | 0.71 |
| 16,724.00 | 90.29 | 165.31 | 8,962.42 | 8,184.74 | | -7,939.12 | 1,990.06 | | 0.65 |
| 16,814.00 | 89.86 | 165.77 | 8,962.30 | 8,274.73 | | -8,026.27 | 2,012.53 | | 0.70 |
| 16,904.00 | 89.89 | 165.58 | 8,962.49 | 8,364.73 | | -8,113.47 | 2,034.80 | | 0.21 |
| 16,995.00 | 90.32 | 165.73 | 8,962.33 | 8,455.73 | | -8,201.63 | 2,057.34 | | 0.50 |
| 17,085.00 | 89.46 | 165.46 | 8,962.50 | 8,545.73 | | -8,288.80 | 2,079.73 | | 1.00 |
| 17,175.00 | 90.41 | 165.52 | 8,962.60 | 8,635.73 | | -8,375.93 | 2,102.28 | | 1.06 |
| 17,265.00 | 89.52 | 165.56 | 8,962.66 | 8,725.72 | | -8,463.08 | 2,124.75 | | 0.99 |
| 17,356.00 | 91.18 | 166.18 | 8,962.10 | 8,816.72 | | -8,551.32 | 2,146.97 | | 1.95 |
| 17,446.00 | 90.38 | 165.72 | 8,960.88 | 8,906.71 | | -8,638.62 | 2,168.82 | | 1.03 |
| 17,536.00 | 89.80 | 165.77 | 8,960.74 | 8,996.71 | | -8,725.85 | 2,190.98 | | 0.65 |
| 17,626.00 | 89.86 | 165.43 | 8,961.00 | 9,086.71 | | -8,813.02 | 2,213.36 | | 0.38 |

| | | | | | | | |
|-----------|-------|--------|----------|----------|-----------|----------|------|
| 17,716.00 | 89.95 | 165.47 | 8,961.15 | 9,176.70 | -8,900.13 | 2,235.97 | 0.11 |
| 17,806.00 | 90.17 | 165.97 | 8,961.06 | 9,266.70 | -8,987.35 | 2,258.17 | 0.61 |
| 17,897.00 | 90.17 | 165.91 | 8,960.79 | 9,357.70 | -9,075.62 | 2,280.28 | 0.07 |
| 17,987.00 | 90.69 | 165.86 | 8,960.11 | 9,447.70 | -9,162.90 | 2,302.22 | 0.58 |
| 18,077.00 | 90.20 | 165.59 | 8,959.41 | 9,537.70 | -9,250.12 | 2,324.41 | 0.62 |
| 18,168.00 | 90.57 | 165.71 | 8,958.80 | 9,628.69 | -9,338.28 | 2,346.97 | 0.43 |
| 18,258.00 | 90.04 | 165.76 | 8,958.32 | 9,718.69 | -9,425.51 | 2,369.14 | 0.59 |
| 18,348.00 | 89.30 | 165.61 | 8,958.84 | 9,808.69 | -9,512.71 | 2,391.40 | 0.84 |

| Formations | | | | | | |
|---------------------------------------|--|--------------------------------------|--------------------|-----------------------|---------------------|------------------------|
| Formation Name | | Prog Top Override (TVD SS) (ft(elv)) | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) |
| 268_5_SPBY_L_A1 | | -5,987.0 | | 8,980.0 | 9,026.0 | 8,869.4 |
| 268_5_SPBY_L_A2 | | -6,023.0 | | 9,016.0 | 9,077.0 | 8,887.8 |
| 268_5_SPBY_L_A3 | | -6,108.0 | | 9,101.0 | 9,155.0 | 8,908.1 |
| 268_6_SPBY_L_B1/JO MILL | | -6,262.0 | | 9,255.0 | 9,355.0 | 8,922.8 |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | | -6,321.0 | | 9,314.0 | 9,409.0 | 8,924.3 |
| PBHL/TD | | -5,990.0 | | 8,983.0 | | |
| 269_0_DEAN | | -6,633.0 | | 9,626.0 | | |
| 270_0_WFMP_A1 | | -6,802.0 | | 9,795.0 | | |
| 275_0_WFMP_B1 | | -7,009.0 | | 10,002.0 | | |
| 276_0_WFMP_B2 | | -7,031.0 | | 10,024.0 | | |
| 278_0_WFMP_B3 | | -7,085.0 | | 10,078.0 | | |
| 280_0_WFMP_C1 | | -7,175.0 | | 10,168.0 | | |
| 282_0_WFMP_C2 | | -7,275.0 | | 10,268.0 | | |
| 292_0_WFMP_D | | -7,701.0 | | 10,694.0 | | |
| 304_0_STRAWN | | -8,065.0 | | 11,058.0 | | |

| Daily Contacts | | | | |
|---|------------------------------|--------------|--------------|---------------------------|
| Job Contact | Title | Office | Mobile | Email |
| JACKSON, AUSTIN, ENGINEER | ENGINEER | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM |
| COX, BRYAN, ENGINEER | ENGINEER | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM |
| KUMAR, DEV, ENGINEER | ENGINEER | | 469-865-6956 | DEV.KUMAR@PXD.COM |
| RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT | AREA DRILLING SUPERINTENDENT | 432-571-2557 | 432-557-8128 | KEN.RICHARDSON@PXD.COM |
| GARZA, JOHN, ENGINEER | ENGINEER | | 469-286-7746 | JOHN.GARZA@PXD.COM |
| PARSELL, VIC, SUPERINTENDENT | SUPERINTENDENT | | 432-301-2539 | VIC.PARSELL@PXD.COM |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM |
| LIGHTSEY, WADE, MUD ENGINEER | MUD ENGINEER | | 210-834-7068 | WADE.LIGHTSEY@PXD.COM |
| RIG-ENSIGN 125, RIG PHONE | RIG PHONE | 432-848-5232 | 432-894-8995 | DL-ENSIGN125@PXD.COM |
| DAFFRON, MIKE, SUPERINTENDENT | SUPERINTENDENT | 432-385-9242 | 318-243-5902 | MIKE.DAFFRON@PXD.COM |

| Personnel Log | |
|---------------------------------------|-------|
| Company | Count |
| PIONEER NATURAL RESOURCES USA INC | 2 |
| ENSIGN UNITED STATES DRILLING S W INC | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | 2 |
| GISLER BROTHERS LOGGING CO INC | 2 |

ENSIGN 125

Accept:

12/18/2022

Release:

Days Since LTI:

872.00

Days Since RI:

872.00

PERMIAN ASSET TEAM

Job:

ODR

Report Date:

01/15/2023

Report #:

11

DFS:

9

AFE #:

9023601

Total AFE + Sup:

\$3,354,970.93

Daily Field Est. (Cost):

\$88,756.87

Daily Drilling Report

| | | | | | | | | | | |
|--|---------------------------|---|-----------------------------------|--|--|---|---|--------------------------------------|---|------------|
| API/UWI 42-003-48666-0000 | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | |
| SSN ID00034057 | Property Sub | KB-Grd (ft) 25.00 | | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | TD Date | |
| Jobs | | | | | | | | | | |
| Responsible Grp 2 | | | Responsible Grp 3 | | Job Type | Start Date | | End Date | Job Status | |
| DRL ENG - JOHN GARZA | | | AREA TEAM 4 | | ODR | 11/13/2022 06:00 | | | IN PROGRESS | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | |
| Type | Subtype | | | Date | | Note | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | | 2/5/2023 | | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | |
| TXRRC CALL | CEMENT PROD | | | 1/14/2023 11:15 | | Audrey Operator #2 | | | | |
| Daily Operations | | | | | | | | | | |
| Footage/Meterage (ft) 725.00 | | Drilling Hours 4.50 | % Rotating Time 100.00 | End Depth (ftKB) 19,510.0 | | Target Depth (ftKB) 19,534.0 | | Daily Field Est Total \$88,756.87 | Cum Field Est To Date \$1,981,259.76 | |
| 24 HR ROP (ft/hr) 161.1 | Circulating Hours 6.75 | % Sliding Time 0.00 | End Depth (TVD) (ftKB) 8,952.6 | | Target Depth Depth (TVD) (ftKB) 8,983.0 | | Daily Mud Field Est Total \$7,646.28 | Cum Mud Field Est \$56,163.35 | Total AFE + Sup \$3,354,970.93 | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 730.0 | | | Daily Goal - Next 24 0.0 | | Goal Comments Goal Met | | |
| Backbuild No | Lateral Inclination | Last Casing String INTERMEDIATE, 6,850.0ftKB | | | | Next Casing String PRODUCTION, 19,490.0ftKB | | | | |
| Avg Connection Gas 782.00 | | Avg Trip Gas 0.00 | Avg Background Gas 720.00 | | Max Connection Gas 940.00 | | Max Trip Gas 0.00 | Max Drill Gas 886.00 | | |
| Operations Summary Drilling Production Lateral T/19510', Perform K&M cleanup cycle,TOOH, R/U casing tools, Run production casing INC - 91.27°, AZI - 166.47°, Above - 12', Right - 5.91', AVG DLS -1.95) | | | | | | | | | | |
| Operations Next Report Period RIH with 5.5" production casing & land in wellhead @ 19,490', circulate STS, Cement production casing, Install and test packoff BPV, Nipple down, | | | | | | | | | | |
| Operations At Report Time Running production casing T/ 1000' | | | | | | | | | | |
| Remarks No incidents reported, No spills recorded. Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 100%, Curve- 100%, Prod Lat- 100% | | | | | | | | | | |
| Time Log | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # |
| 06:00 | 4.5 | 10:30 | PROD, DRL LAT | DRL | NORMAL | Drill Production Lateral F/18,785' T/19,510' (725' @ (161 fph). Pumping @ 600 GPM w/3900 psi, Rotating @ 100RPM w/19K torque, 38-45K WOB, Diff 850 | 18,785.0 | 19,510.0 | | |
| 10:30 | 6.75 | 17:15 | PROD, POST DRL | K&M_CLEANUP | NORMAL | Perform K&M cleanup cycle of 6.5 x B/U @ RPM & 640 GPM | 19,510.0 | 19,510.0 | | |
| 17:15 | 0.25 | 17:30 | PROD, POST DRL | FLOW_CHK | NORMAL | Flow Check **Well Is Static** | 19,510.0 | 19,510.0 | | |
| 17:30 | 0.5 | 18:00 | PROD, POST DRL | TOOH_ELEV | NORMAL | TOOH wet F/ 19,510' T/ 18550', hole pulling good and taking proper fill | 19,510.0 | 19,510.0 | | |
| 18:00 | 0.25 | 18:15 | PROD, POST DRL | CIRC | NORMAL | Slug pipe | 19,510.0 | 19,510.0 | | |
| 18:15 | 4.75 | 23:00 | PROD, POST DRL | TOOH_ELEV | NORMAL | TOOH F/ 18550' T/ 6850' hole taking proper fill | 19,510.0 | 19,510.0 | | |
| 23:00 | 0.5 | 23:30 | PROD, POST DRL | HDL_ROTHD | NORMAL | Pull rotating head & install trip nipple | 19,510.0 | 19,510.0 | | |
| 23:30 | 2 | 01:30 | PROD, POST DRL | TOOH_ELEV | NORMAL | TOOH F/ 6850' T/ BHA, monitoring well on trip tank, hole taking proper fill | 19,510.0 | 19,510.0 | | |
| 01:30 | 0.25 | 01:45 | PROD, POST DRL | SFTY | NORMAL | PJSM on L/D Dir tools | 19,510.0 | 19,510.0 | | |
| 01:45 | 0.75 | 02:30 | PROD, POST DRL | LD_DIR | NORMAL | L/D Directional tools, drain and L/D MM, break bit, L/D RSS | 19,510.0 | 19,510.0 | | |
| 02:30 | 0.5 | 03:00 | PROD, POST | WRBSH | NORMAL | Retrieve wear bushing, Clean & Organize rig floor | 19,510.0 | 19,510.0 | | |

| | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|-------------------------|--------------------------------------|--------------------------|------------------|-------------------------|---|---------------------|---------------------------|--------------------------|------------------------------|---------------------------|---------------------|---------------------------|---------------------|-----------------------|---------|-----------------------|--|-----------------------|--|
| 03:00 | 0.25 | 03:15 | DRL | PROD, POST DRL | SFTY | NORMAL | PJSM on rigging up and running 5.5" casing | | | 19,510.0 | 19,510.0 | | | | | | | | | | |
| 03:15 | 1 | 04:15 | | PROD, CASE & CMT | RU_CSG | NORMAL | R/U CSI casing equipment | | | 19,510.0 | 19,510.0 | | | | | | | | | | |
| 04:15 | 0.25 | 04:30 | | PROD, CASE & CMT | MU_SHOE_TRK | NORMAL | M/U shoe track and ensure circulation through same | | | 19,510.0 | 19,510.0 | | | | | | | | | | |
| 04:30 | 1.5 | 06:00 | | PROD, CASE & CMT | CSG_W/O ROTATION | NORMAL | Run production casing T/ 1000' with hole giving proper displacement | | | 19,510.0 | 19,510.0 | | | | | | | | | | |
| Drill Strings | | | | | | | | | | | | | | | | | | | | | |
| BHA #4 , PRODUCTION - VERTICAL/CURVE/LATERAL | | | | | | | | | | | | | | | | | | | | | |
| Bit Run | | | Drill Bit | | | | Bit Type | | | Make | | | | | | | | | | | |
| | | | 4 8 1/2, DD506TSX, 5333548 | | | | PDC | | | GE/BAKER HUGHES | | | | | | | | | | | |
| Nozzles (1/32") | | | Bit Total Fluid Area (nozzles) (in²) | | | IADC Bit Dull | | | Hours Drilled By Bit (hr) | | Depth Drilled By Bit (ft) | | | | | | | | | | |
| 12/12/12/14/14/14 | | | 0.78 | | | 1-2-BT-N-X-0-NO-TD | | | 76.75 | | 12,592.00 | | | | | | | | | | |
| BHA Drilling Time (hr) | | | BHA Depth Drilled (ft) | | | BHA ROP (ft/hr) | | | Depth In (ftKB) | | Depth Out (ftKB) | | | | | | | | | | |
| 76.75 | | | 12,592.00 | | | 164.1 | | | 6,918.0 | | 19,510.0 | | | | | | | | | | |
| Drill String Components | | | | | | | | | | | | | | | | | | | | | |
| Jts | Item Des | | | | OD (in) | ID (in) | Len (ft) | Cum Len (ft) | Wt (lbf) | Cum Wt (1000lbf) | Make | | | | | | | | | | |
| 427 | DRILL PIPE | | | | 5 | 4.28 | 19,297.31 | 19,510.00 | 376,297.5 | 376 | RIG | | | | | | | | | | |
| 1 | SUB - FILTER | | | | 6 1/2 | 3.13 | 4.17 | 212.69 | | 0 | GE/BAKER HUGHES | | | | | | | | | | |
| 2 | DRILL PIPE | | | | 5 | 3.88 | 90.00 | 208.52 | | 0 | RIG | | | | | | | | | | |
| 1 | MOTOR - STABILIZER SLEEVE | | | | 7 | 3.25 | 43.22 | 118.52 | | 0 | GE/BAKER HUGHES | | | | | | | | | | |
| 1 | SUB - SHOCK | | | | 7 | 2.25 | 26.57 | 75.30 | | 0 | OTHER (PROVIDE DESCRIPTION) | | | | | | | | | | |
| 1 | STABILIZER | | | | 6 7/8 | 2.75 | 10.42 | 48.73 | | 0 | DRILLING TOOLS INTERNATIONAL | | | | | | | | | | |
| 1 | RSS TOOL | | | | 6.86 | 2.75 | 12.62 | 38.31 | | 0 | GE/BAKER HUGHES | | | | | | | | | | |
| 1 | MWD TOOL - NON-RETRIEVABLE | | | | 6.69 | 2.75 | 15.63 | 25.69 | | 0 | GE/BAKER HUGHES | | | | | | | | | | |
| 1 | RSS TOOL | | | | 6.99 | 2.75 | 9.36 | 10.06 | | 0 | GE/BAKER HUGHES | | | | | | | | | | |
| Mud Motors | | | | | | | | | | | | | | | | | | | | | |
| SN | | Bend Angle | | Bearing Type | | | Lobe Config | | # Stages | | Lwr Defin Type | | Bit To Bend | | | | | | | | |
| A67370 | | 0 | | NOT SEALED | | | 7:8 | | 6.4 | | | | 0 | | | | | | | | |
| Sensors | | | | | | | | | | | | | | | | | | | | | |
| Sensor Type | | | | Sensor-Bit (ft) | | | | Note | | | | | | | | | | | | | |
| GAMMA | | | | 12.26 | | | | | | | | | | | | | | | | | |
| DIRECTIONAL | | | | 22.33 | | | | | | | | | | | | | | | | | |
| Drilling Parameters | | | | | | | | | | | | | | | | | | | | | |
| Start Time | End Time | Start Depth (ftKB) | Int Depth (ft) | Int ROP (ft/hr) | WOB (1000lbf) | RPM | dP (SPP) (psi) | Q Flow (gpm) | SPP (psi) | ROP Average (ft/hr) | Drill Str Wt (1000lbf) | PU Str Wt (1000lbf) | SO Str Wt (1000lbf) | Off-Btm Str Wt (1000lbf) | Drill Tq | Off Btm Tq | TFO (°) | | | | |
| 06:00 | 10:30 | 18,785.0 | 725.00 | 161.1 | 45 | 100 | | 600 | 3,900.0 | 161.0 | 205 | 245 | 155 | 205 | 19.0 | 7.0 | | | | | |
| 10:30 | 17:15 | 19,510.0 | 0.00 | | 0 | 75 | | 600 | 3,250.0 | 0.0 | 205 | 245 | 155 | 205 | 0.0 | 10.0 | | | | | |
| Hydraulic Calculations | | | | | | | | | | | | | | | | | | | | | |
| Dens Mud (lb/gal) | | ECD End (lb/gal) | | Bit Hydraulic Power (hp) | | HP/Area (hp/in²) | | Jet Vel (ft/s) | | Bit dP (psi) | | Min Open Hole AV (ft/min) | | Max Open Hole AV (ft/min) | | Vol DrillString (bbl) | | Vol Bit to Shoe (bbl) | | Vol Shoe to Top (bbl) | |
| 8.50 | | 9.00 | | 163.2 | | 2.9 | | 246.1 | | 466.2 | | 16.8 | | 632.5 | | 345.67 | | 579.64 | | 352.45 | |
| Mud Checks | | | | | | | | | | | | | | | | | | | | | |
| Time | | Mud Company | | | | Type | | Depth (ftKB) | | Density (lb/gal) | | Funnel Viscosity (s/qt) | | | T Flowline (° F) | | | | | | |
| 1/14/2023 20:00 | | PIONEER DRILLING FLUIDS | | | | OIL BASE | | 19,510.0 | | 8.50 | | 52 | | | | | | | | | |
| pV (cP) | | YP (lbf/100ft²) | | Vis 3rpm | | Vis 6rpm | | Filtrate (mL/30min) | | HTHP Filtrate (mL/30min) | | HTHP Temperature (° F) | | | HTHP Pressure (psi) | | | | | | |
| 12.0 | | 6.000 | | 4 | | 5 | | 0.0 | | 10.0 | | 200.0 | | | 500.0 | | | | | | |
| Solids (%) | | Low Gravity Solids (%) | | | | Sand (%) | | MBT (lb/bbl) | | Pm (mL/mL) | | | Pf (mL/mL) | | | | | | | | |
| 6.0 | | 3.0 | | | | 0.0 | | 0.0 | | | 0.000 | | | 0.0 | | | | | | | |
| Chlorides (mg/L) | | | Calcium (mg/L) | | | CaCl (ppm) | | | Oil Water Ratio | | | Electric Stab (V) | | | Lime (lb/bbl) | | pH | | | | |
| 12,000 | | | 6,000.000 | | | 0 | | | 76.1/23.9 | | | 507.0 | | | 2.1 | | 0.0 | | | | |
| Gel 10 sec (lbf/100ft²) | | | | | | Gel 10 min (lbf/100ft²) | | | | | | Gel 30 min (lbf/100ft²) | | | | | | | | | |
| 6.000 | | | | | | 12.000 | | | | | | 14.000 | | | | | | | | | |
| Comment | | | | | | | | | | | | | | | | | | | | | |
| Recommended Fluid Treatment:No treatment needed at this time. | | | | | | | | | | | | | | | | | | | | | |
| Drilling Fluid Activity Last 24 Hrs:Running centrifuge as needed to control MW. Rec 7,313 gal mud diesel. Monitored shakers during CUC. | | | | | | | | | | | | | | | | | | | | | |
| Monitor well on trip tank during tripping ops. | | | | | | | | | | | | | | | | | | | | | |
| Rig Activity Last 24 Hours:Drilled lateral f/ 17,770' t/ 19,510' TD'd well. Peformed 6.3 b/u CUC; flow checked well was static. Pulled t/18,550'. | | | | | | | | | | | | | | | | | | | | | |
| No issues pumped slug; POOH for csg run. Drilling parameters: ROP- 225', WOB-45K, Rotary- 100 RPM, Bit- 220 RPM, Tq- 21 KLB-Ft, Diff- 775 PSI. P/U 235k, S/O 150k, ROT 205K. Lithology @ 19,510' | | | | | | | | | | | | | | | | | | | | | |
| 100% SH. Ftg Drilled Last 24hrs: 1,740'. Currently POOH at time of report. | | | | | | | | | | | | | | | | | | | | | |
| Last BOP Test | | | | | | | | | | | | | | | | | | | | | |
| Date | | Test Type | | Item Tested | | | | Next Test Date | | | | Com | | | | | | | | | |
| 1/10/2023 07:30 | | BOP | | BOP'S, 12/18/2022 01:30 | | | | 1/19/2023 03:15 | | | | Shell Test | | | | | | | | | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | | | | | | | | | | | | |
| Test Type | | | | | | | | Depth (ftKB) | | | | Dens Fluid (lb/gal) | | | | | | | | | |
| FORMATION INTEGRITY | | | | | | | | 1,994.0 | | | | 12.50 | | | | | | | | | |

| | | | | | | | | |
|--|-----------------------|--------------------------------------|------------------|---------------------------|------------------------|---------------------|------------------------|-----------------|
| FORMATION INTEGRITY | | | | 6,850.0 | | 9.50 | | |
| Casing Pressure Test | | | | | | | | |
| Test Type | Test Subtype | Date | | Item Tested | | Failed? | Time (min) | P (psi) |
| CASING | STANDARD | 11/17/2022 17:30 | | SURFACE, 1,994.7ftKB | | No | 30.00 | 1,000.0 |
| CASING | STANDARD | 1/10/2023 13:15 | | INTERMEDIATE, 6,850.0ftKB | | No | 30.00 | 2,500.0 |
| Kick Offs & Key Depths | | | | | | | | |
| Date | | Type | Top Depth (ftKB) | | Depth Top (TVD) (ftKB) | | | |
| 1/11/2023 09:30 | | KICK OFF | 8,342.0 | | 8,337.3 | | | |
| 1/11/2023 21:45 | | HEEL | 9,270.0 | | 8,921.2 | | | |
| Casing Strings | | | | | | | | |
| Description | Set Depth (ftKB) | Set Depth (TVD) (ftKB) | | OD (in) | Grade | Wt/Len (lb/ft) | Top Thread | P LeakOff (psi) |
| CONDUCTOR | 105.0 | 105.0 | | 20 | H40 | 78.67 | | |
| SURFACE | 1,994.7 | 1,993.7 | | 13 3/8 | J55 | 54.50 | BTC | 1,294.5 |
| INTERMEDIATE | 6,850.0 | 6,845.3 | | 9 5/8 | L80-IC | 40.00 | BTC | 3,378.6 |
| Gas Emissions - Flare | | | | | | | | |
| Type | | Method | Dur (Min) | | Amount | | Units | Com |
| No Data | | | | | | | | |
| Job Supply Amounts | | | | | | | | |
| Supply Item Des | Type | Unit Label | Received | Consumed | Returned | Note | Cum On Loc | Cum Consumed |
| DIESEL | MUD | GAL | 7313 | 4766 | | Texas Pride 74302 | 16,508 | 30447 |
| DIESEL | FUEL | GAL | | 2286 | | | 10,216 | 19245 |
| Mud Additive Amounts | | | | | | | | |
| Des | Type | | | Units | Rec | Consumed | On Loc | Cum Cons |
| CON DET | DRILLING SOAP | | | GAL | 28 | 5 | 23.0 | 5 |
| BARITE - BULK | WEIGHTING MATERIAL | | | TON | | 5 | 8.11 | 15 |
| DD LEM | LOW END MODIFIER | | | GAL | | 125 | 700.0 | 900 |
| DDF MUL | ALL IN ONE EMULSIFIER | | | GAL | | 125 | 700.0 | 975 |
| DD TONE | ORGANOPHILLIC CLAY | | | SACK | | 17 | 233.0 | 87 |
| LIME | ALKALINITY CONTROL | | | SACK | | 40 | 180.0 | 158 |
| SOLTEX | FILTRATE CONTROL | | | LB | | 7 | 78.0 | 81 |
| XMP GILSONITE | FILTRATE CONTROL | | | LB | | 6 | 95.0 | 40 |
| Pump Operations | | | | | | | | |
| Pump # | Make | Model | Liner Size (in) | Stroke (in) | Vol/Stk (bbl/stk) | | P Max (psi) | |
| 1 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | | 7,500.0 | |
| 2 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | | 7,500.0 | |
| 3 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | | 7,500.0 | |
| Pump Checks | | | | | | | | |
| Pump # | Depth (ftKB) | | Time | P (psi) | Strokes (spm) | Q Flow (gpm) | | Eff (%) |
| No Data | | | | | | | | |
| Deviation Surveys | | | | | | | | |
| Date | | Description | | | Job | | | |
| 11/13/2022 08:30 | | AS DRILL SURVEY | | | ODR, 11/13/2022 06:00 | | | |
| Survey Data - All surveys for 24 hr reporting period | | | | | | | | |
| MD (ftKB) | Incl (°) | Azm (°) | TVD (ftKB) | VS (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | |
| 18,800.00 | 90.47 | 167.00 | 8,960.58 | 10,260.66 | -9,951.71 | 2,498.94 | 0.52 | |
| 18,890.00 | 90.69 | 166.57 | 8,959.67 | 10,350.64 | -10,039.32 | 2,519.51 | 0.54 | |
| 18,980.00 | 90.66 | 166.65 | 8,958.61 | 10,440.63 | -10,126.87 | 2,540.35 | 0.09 | |
| 19,071.00 | 90.32 | 166.98 | 8,957.83 | 10,531.61 | -10,215.46 | 2,561.11 | 0.52 | |
| 19,161.00 | 90.17 | 166.88 | 8,957.45 | 10,621.60 | -10,303.13 | 2,581.46 | 0.20 | |
| 19,252.00 | 91.06 | 167.09 | 8,956.47 | 10,712.57 | -10,391.79 | 2,601.95 | 1.00 | |
| 19,342.00 | 90.90 | 166.43 | 8,954.93 | 10,802.55 | -10,479.38 | 2,622.56 | 0.75 | |
| 19,432.00 | 90.41 | 166.75 | 8,953.90 | 10,892.54 | -10,566.92 | 2,643.43 | 0.65 | |
| 19,485.00 | 91.27 | 166.47 | 8,953.13 | 10,945.53 | -10,618.47 | 2,655.71 | 1.71 | |
| Formations | | | | | | | | |
| Formation Name | | Prog Top Override (TVD SS) (ft(elv)) | | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) | |
| 268_5_SPBY_L_A1 | | -5,987.0 | | | 8,980.0 | 9,026.0 | 8,869.4 | |
| 268_5_SPBY_L_A2 | | -6,023.0 | | | 9,016.0 | 9,077.0 | 8,887.8 | |
| 268_5_SPBY_L_A3 | | -6,108.0 | | | 9,101.0 | 9,155.0 | 8,908.1 | |
| 268_6_SPBY_L_B1/JO MILL | | -6,262.0 | | | 9,255.0 | 9,355.0 | 8,922.8 | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | | -6,321.0 | | | 9,314.0 | 9,409.0 | 8,924.3 | |
| PBHL/TD | | -5,990.0 | | | 8,983.0 | | | |
| 269_0_DEAN | | -6,633.0 | | | 9,626.0 | | | |
| 270_0_WFMP_A1 | | -6,802.0 | | | 9,795.0 | | | |
| 275_0_WFMP_B1 | | -7,009.0 | | | 10,002.0 | | | |
| 276_0_WFMP_B2 | | -7,031.0 | | | 10,024.0 | | | |
| 278_0_WFMP_B3 | | -7,085.0 | | | 10,078.0 | | | |
| 280_0_WFMP_C1 | | -7,175.0 | | | 10,168.0 | | | |
| 282_0_WFMP_C2 | | -7,275.0 | | | 10,268.0 | | | |
| 292_0_WFMP_D | | -7,701.0 | | | 10,694.0 | | | |
| 304_0_STRAWN | | -8,065.0 | | | 11,058.0 | | | |

| Daily Contacts | | | | |
|---|------------------------------|--------------|--------------|---------------------------|
| Job Contact | Title | Office | Mobile | Email |
| JACKSON, AUSTIN, ENGINEER | ENGINEER | 972-969-5954 | 469-503-1379 | AUSTIN.JACKSON@PXD.COM |
| COX, BRYAN, ENGINEER | ENGINEER | 972-969-5717 | 361-318-4212 | BRYAN.COX@PXD.COM |
| KUMAR, DEV, ENGINEER | ENGINEER | | 469-865-6956 | DEV.KUMAR@PXD.COM |
| RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT | AREA DRILLING SUPERINTENDENT | 432-571-2557 | 432-557-8128 | KEN.RICHARDSON@PXD.COM |
| GARZA, JOHN, ENGINEER | ENGINEER | | 469-286-7746 | JOHN.GARZA@PXD.COM |
| PARSELL, VIC, SUPERINTENDENT | SUPERINTENDENT | | 432-301-2539 | VIC.PARSELL@PXD.COM |
| PRESLEY, MAHLON, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 361-212-4890 | MAHLON.PRESLEY@PXD.COM |
| GALLAGHER, JEFFERY, WELLSITE SUPERVISOR | WELLSITE SUPERVISOR | | 318-282-4788 | JEFFERY.GALLAGHER@PXD.COM |
| LIGHTSEY, WADE, MUD ENGINEER | MUD ENGINEER | | 210-834-7068 | WADE.LIGHTSEY@PXD.COM |
| RIG-ENSIGN 125, RIG PHONE | RIG PHONE | 432-848-5232 | 432-894-8995 | DL-ENSIGN125@PXD.COM |
| DAFFRON, MIKE, SUPERINTENDENT | SUPERINTENDENT | 432-385-9242 | 318-243-5902 | MIKE.DAFFRON@PXD.COM |
| Personnel Log | | | | |
| Company | | | | Count |
| PIONEER NATURAL RESOURCES USA INC | | | | 2 |
| ENSIGN UNITED STATES DRILLING S W INC | | | | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | | | | 2 |
| GISLER BROTHERS LOGGING CO INC | | | | 2 |

ENSIGN 125

Accept:

12/18/2022

Release:

1/16/2023

Days Since LTI:

874.00

Days Since RI:

874.00

PERMIAN ASSET TEAM

Job:

ODR

Report Date:

01/16/2023

Report #:

13

Dfs:

10

Afe #:

9023601

Total AFE + Sup:

\$3,354,970.93

Daily Field Est. (Cost):

\$674,221.07

Daily Drilling Report

| | | | | | | | | | | | |
|--|----------------------------------|--|------------------------------------|--|---|--|---------------------------------------|----------------------------------|---|-----------------------|------------|
| API/UWI 42-003-48666-0000 | | Well Profile HORIZONTAL | | Open Formation MIDDLE SPRABERRY (SPBY M A1) | | | Field Name SPRABERRY (TREND AREA) | | | | |
| SSN ID00034057 | Property Sub | KB-Grd (ft) 25.00 | Orig KB Elevation (ft) 2,993.00 | | Ground Elevation (ft) 2,968.00 | | Spud Date 11/13/2022 | TD Date 1/14/2023 | | | |
| Jobs | | | | | | | | | | | |
| Responsible Grp 2 | | | Responsible Grp 3 | | Job Type | Start Date | | End Date | | Job Status | |
| DRL ENG - JOHN GARZA | | | AREA TEAM 4 | | ODR | 11/13/2022 06:00 | | 1/16/2023 08:00 | | COMPLETE | |
| Job Dates (ex. Estimated Pad Release, TXRRC Calls) | | | | | | | | | | | |
| Type | Subtype | | | Date | Note | | | | | | |
| MILESTONE | ESTIMATED PAD RELEASE | | | 2/5/2023 | 2nd well of a 5 well pad, Batch Drilling. Updated on 12-17-22 | | | | | | |
| Daily Operations | | | | | | | | | | | |
| Footage/Meterage (ft) 0.00 | | Drilling Hours | % Rotating Time | End Depth (ftKB) 19,510.0 | Target Depth (ftKB) 19,534.0 | | Daily Field Est Total \$674,221.07 | | Cum Field Est To Date \$3,429,935.57 | | |
| 24 HR ROP (ft/hr) | Circulating Hours | % Sliding Time | End Depth (TVD) (ftKB) 8,952.6 | Target Depth Depth (TVD) (ftKB) 8,983.0 | | Daily Mud Field Est Total \$ | | Cum Mud Field Est \$56,163.35 | Total AFE + Sup \$3,354,970.93 | | |
| Daily Goal Description DRILLED FEET | | | Daily Goal - Last 24 0.0 | | | Daily Goal - Next 24 0.0 | | Goal Comments Goal Met | | | |
| Backbuild No | Lateral Inclination Toe Up | Last Casing String PRODUCTION, 19,490.0ftKB | | | | Next Casing String PRODUCTION, 19,490.0ftKB | | | | | |
| Avg Connection Gas 0.00 | | Avg Trip Gas 522.00 | Avg Background Gas 322.00 | | Max Connection Gas 0.00 | | Max Trip Gas 522.00 | Max Drill Gas 0.00 | | | |
| Operations Summary Install packoff & BPV, Nipple Down BOPE and related equipment. Release rig to University 6-48A 101H | | | | | | | | | | | |
| Operations Next Report Period Rig released to University 6-48A 101H | | | | | | | | | | | |
| Operations At Report Time Rig released to University 6-48A 101H | | | | | | | | | | | |
| Remarks No incidents reported, No spills recorded. Rig NPT - Well: 0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr Surf-100%, Int 1- 100%, Curve- 100%, Prod Lat- 100% | | | | | | | | | | | |
| Time Log | | | | | | | | | | | |
| Start Time | Dur (hr) | End Time | Phase | Operation | Ops Category | Com | | Start Depth (ftKB) | End Depth (ftKB) | Prob Hrs | Prob Ref # |
| 06:00 | 0.5 | 06:30 | DEMOB, RIG DOWN | RD_CMT | NORMAL | Rig down cement equipment | | 19,510.0 | 19,510.0 | | |
| 06:30 | 0.5 | 07:00 | DEMOB, RIG DOWN | WH | NORMAL | L/D landing joint, install and test packoff to 5,000 psi, verify set with 40k overpull, install BPV | | 19,510.0 | 19,510.0 | | |
| 07:00 | 0.5 | 07:30 | DEMOB, RIG DOWN | ND_BOPE | NORMAL | N/D BOP & related equipment for walk | | 19,510.0 | 19,510.0 | | |
| 07:30 | 0.5 | 08:00 | DEMOB, RIG DOWN | WH | NORMAL | Walk rig off well head & Install TA cap **Release rig to the University 6-48A 101H** 1/16/2023 8:00 AM | | 19,510.0 | 19,510.0 | | |
| Hydraulic Calculations | | | | | | | | | | | |
| Dens Mud (lb/gal) | ECD End (lb/gal) | Bit Hydraulic Power (hp) | HP/Area (hp/in²) | Jet Vel (ft/s) | Bit dP (psi) | Min Open Hole AV (ft/min) | Max Open Hole AV (ft/min) | Vol DrillString (bbl) | Vol Bit to Shoe (bbl) | Vol Shoe to Top (bbl) | |
| Last BOP Test | | | | | | | | | | | |
| Date | | | Test Type | | Item Tested | | | Next Test Date | | Com | |
| 1/10/2023 07:30 | | | BOP | | BOP'S, 12/18/2022 01:30 | | | 1/19/2023 03:15 | | Shell Test | |
| Leak Off and Formation Integrity Tests | | | | | | | | | | | |
| Test Type | | | | | Depth (ftKB) | | | Dens Fluid (lb/gal) | | | |
| FORMATION INTEGRITY | | | | | 1,994.0 | | | 12.50 | | | |
| FORMATION INTEGRITY | | | | | 6,850.0 | | | 9.50 | | | |
| Casing Pressure Test | | | | | | | | | | | |
| Test Type | Test Subtype | | Date | | Item Tested | | | Failed? | Time (min) | P (psi) | |
| CASING | STANDARD | | 11/17/2022 17:30 | | SURFACE, 1,994.7ftKB | | | No | 30.00 | 1,000.0 | |
| CASING | STANDARD | | 1/10/2023 13:15 | | INTERMEDIATE, 6,850.0ftKB | | | No | 30.00 | 2,500.0 | |
| Kick Offs & Key Depths | | | | | | | | | | | |

| Date | | Type | Top Depth (ftKB) | | Depth Top (TVD) (ftKB) | | | |
|---|--------------------------------------|-------------------------|---|---------------------|------------------------|--|-----------------|--------------|
| 1/11/2023 09:30 | | KICK OFF | 8,342.0 | | 8,337.3 | | | |
| 1/11/2023 21:45 | | HEEL | 9,270.0 | | 8,921.2 | | | |
| 1/14/2023 10:30 | | TOE | 19,510.0 | | 8,952.6 | | | |
| Casing Strings | | | | | | | | |
| Description | Set Depth (ftKB) | Set Depth (TVD) (ftKB) | OD (in) | Grade | Wt/Len (lb/ft) | Top Thread | P LeakOff (psi) | |
| CONDUCTOR | 105.0 | 105.0 | 20 | H40 | 78.67 | | | |
| SURFACE | 1,994.7 | 1,993.7 | 13 3/8 | J55 | 54.50 | BTC | 1,294.5 | |
| INTERMEDIATE | 6,850.0 | 6,845.3 | 9 5/8 | L80-IC | 40.00 | BTC | 3,378.6 | |
| PRODUCTION | 19,490.0 | 8,953.0 | 5 1/2 | P110-IC | 20.00 | WEDGE 441 | | |
| Cement | | | | | | | | |
| Cement Fluids | | | | | | | | |
| Fluid Type | Estimated Top (ftKB) | Estimated Bottom (ftKB) | Class | Yield (ft³/sack) | Density (lb/gal) | | | |
| SPACER | 2,970.0 | 4,195.0 | | 192.91 | 9.00 | | | |
| Fluid Type | Estimated Top (ftKB) | Estimated Bottom (ftKB) | Class | Yield (ft³/sack) | Density (lb/gal) | | | |
| LEAD CMT | 4,195.0 | 6,182.0 | CLASS C | 3.23 | 9.30 | | | |
| Fluid Type | Estimated Top (ftKB) | Estimated Bottom (ftKB) | Class | Yield (ft³/sack) | Density (lb/gal) | | | |
| TAIL CMT | 8,148.0 | 19,490.0 | CLASS C | 1.69 | 12.50 | | | |
| Fluid Type | Estimated Top (ftKB) | Estimated Bottom (ftKB) | Class | Yield (ft³/sack) | Density (lb/gal) | | | |
| DSPLMT | 26.9 | 19,485.0 | | | 8.40 | | | |
| Cement Stages | | | | | | | | |
| Description | Final Top Depth | Btm (ftKB) | Top Pl... | Btm Pl... | | | | |
| | 4,195.0 | 19,490.0 | Yes | Yes | | | | |
| Q Pump Init | Q Pump Final | Q Pump Avg | P Pump Final | P Plug Bump | Float | Recip? | Rotated? | |
| 7 | 4 | 6 | 1,590.0 | 1,590.0 | No | No | No | |
| PRODUCTION CASING CEMENT casing 1/16/2023 01:38 | | | | | | | | |
| Cmtg End Date | Wellbore | Technical Result | Comment | | | | | |
| 1/16/2023 06:00 | ORIGINAL | SUCCESS | Pressure test lines T/7,500 psi. Pump 50 bbls of 9# Spacer, 186 bbls of 9.3# Lead, 546 bbls of 12.5# Tail. Shut down and drop bottom plug, pump 4 bbls fresh water treated with MMCR, drop top plug and displace with 432 bbls of fresh water. Witnessed bottom plug bump on time w/ 1,590 & ruptured @ 2,300, 4 bbl later top plug bumped 1,590 & pressured up to 2,700 psi. Watch for 5 minutes & bled back 4 bbl. Floats held. | | | | | |
| Gas Emissions - Flare | | | | | | | | |
| Type | Method | Dur (Min) | Amount | Units | Com | | | |
| No Data | | | | | | | | |
| Job Supply Amounts | | | | | | | | |
| Supply Item Des | Type | Unit Label | Received | Consumed | Returned | Note | Cum On Loc | Cum Consumed |
| WATER | FRESH | BBL | | | 0 | Transferred to 'UNIVERSITY 6-48A 101H' | 0 | 13050 |
| DIESEL | FUEL | GAL | | | 19990 | Transferred to 'UNIVERSITY 6-48A 101H' | 0 | 0 |
| DIESEL | FUEL | GAL | | | 9161 | Transferred to 'UNIVERSITY 6-48A 101H' | 0 | 20300 |
| DIESEL | MUD | GAL | | | 15022 | Transferred to 'UNIVERSITY 6-48A 101H' | 0 | 31933 |
| Mud Additive Amounts | | | | | | | | |
| Des | Type | Units | Rec | Consumed | On Loc | Cum Cons | | |
| Pump Operations | | | | | | | | |
| Pump # | Make | Model | Liner Size (in) | Stroke (in) | Vol/Stk (bbl/stk) | P Max (psi) | | |
| 1 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | 7,500.0 | | |
| 2 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | 7,500.0 | | |
| 3 | BOMCO | F1600 | 5 1/2 | 12.00 | 0.088 | 7,500.0 | | |
| Pump Checks | | | | | | | | |
| Pump # | Depth (ftKB) | Time | P (psi) | Strokes (spm) | Q Flow (gpm) | Eff (%) | | |
| No Data | | | | | | | | |
| Deviation Surveys | | | | | | | | |
| Date | Description | Job | | | | | | |
| 11/13/2022 08:30 | AS DRILL SURVEY | ODR, 11/13/2022 06:00 | | | | | | |
| Formations | | | | | | | | |
| Formation Name | Prog Top Override (TVD SS) (ft(elv)) | Prog Top MD (ftKB) | Prog Top (TVD) (ftKB) | Final Top MD (ftKB) | Final Top (TVD) (ftKB) | | | |
| 268_5_SPBY_L_A1 | -5,987.0 | | 8,980.0 | 9,026.0 | 8,869.4 | | | |
| 268_5_SPBY_L_A2 | -6,023.0 | | 9,016.0 | 9,077.0 | 8,887.8 | | | |
| 268_5_SPBY_L_A3 | -6,108.0 | | 9,101.0 | 9,155.0 | 8,908.1 | | | |
| 268_6_SPBY_L_B1/JO MILL | -6,262.0 | | 9,255.0 | 9,355.0 | 8,922.8 | | | |
| 268_7_SPBY_L_C1/LOWER SPRABERRY SHALE | -6,321.0 | | 9,314.0 | 9,409.0 | 8,924.3 | | | |
| PBHL/TD | -5,990.0 | | 8,983.0 | | | | | |
| 269_0_DEAN | -6,633.0 | | 9,626.0 | | | | | |
| 270_0_WFMP_A1 | -6,802.0 | | 9,795.0 | | | | | |
| 275_0_WFMP_B1 | -7,009.0 | | 10,002.0 | | | | | |
| 276_0_WFMP_B2 | -7,031.0 | | 10,024.0 | | | | | |
| 278_0_WFMP_B3 | -7,085.0 | | 10,078.0 | | | | | |
| 280_0_WFMP_C1 | -7,175.0 | | 10,168.0 | | | | | |
| 282_0_WFMP_C2 | -7,275.0 | | 10,268.0 | | | | | |
| 292_0_WFMP_D | -7,701.0 | | 10,694.0 | | | | | |
| 304_0_STRAWN | -8,065.0 | | 11,058.0 | | | | | |
| Daily Contacts | | | | | | | | |

| Job Contact | Title | Office | Mobile | Email |
|---|------------------------------|--------------|--------------|---------------------------|
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| PIONEER NATURAL RESOURCES USA INC | | | | 3 |
| ENSIGN UNITED STATES DRILLING S W INC | | | | 13 |
| BAKER HUGHES OILFIELD OPERATIONS INC | | | | 2 |
| GISLER BROTHERS LOGGING CO INC | | | | 2 |