Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-101 August 1, 2011

Permit 394971

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| Operator Name and Address Earthstone Operating, LLC | | 2. OGRID Number 331165 |
|---|-------------------------------------|-------------------------------|
| 300 N. Marienfeld St Ste 1000 Midland, TX 79701 | | 3. API Number 30-025-55200 |
| 4. Property Code 332607 | 5. Property Name OUTLAND STATE UNIT | 6. Well No. 136H |

7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| С | 1 | 21S | 34E | 3 | 401 | N | 2330 | W | Lea |
| | | | | | | | | | |

8. Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| M | 1 | 21S | 34E | M | 100 | S | 330 | W | Lea |

9. Pool Information

| GRAMA RIDGE | BONE SPRING, NORTH | 28434 |
|-------------|--------------------|-------|

Additional Well Information

| 11. Work Type | 12. Well Type | 13. Cable/Rotary | 14. Lease Type | 15. Ground Level Elevation |
|-----------------------|--------------------|--|----------------|-----------------------------------|
| New Well | OIL | | State | 3684 |
| 16. Multiple | 17. Proposed Depth | 18. Formation | 19. Contractor | 20. Spud Date |
| N | 18896 | 3rd Bone Spring Sand | | 9/24/2025 |
| Depth to Ground water | | Distance from nearest fresh water well | | Distance to nearest surface water |
| | | | | |

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

| | | | 21111000000 0001115 | g and comont riogram | | |
|------|-----------|-------------|---------------------|----------------------|-----------------|---------------|
| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
| Surf | 17.5 | 13.375 | 54.5 | 1948 | 1470 | 0 |
| Int1 | 12.25 | 9.625 | 40 | 5731 | 1500 | 0 |
| Prod | 8.75 | 5.5 | 20 | 18896 | 2160 | 5231 |

Casing/Cement Program: Additional Comments

DV tool set @ 3764 w/2 Stage Cement job on Intermediate Casing. Production hole is a tapered hole: 8.75" to 11730' and 8.5" hole from 11730'-18896' Detailed Drilling Plan attached. Intermediate Hole will be drilled with Water Based Mud

22. Proposed Blowout Prevention Program

| Туре | Working Pressure | Test Pressure | Manufacturer |
|--------------|------------------|---------------|--------------|
| Annular 2500 | | 2500 | |
| Double Ram | 5000 | 5000 | |
| Pipe | 5000 | 5000 | |
| Blind | 5000 | 5000 | |

| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable. Signature: | | | | OIL CONSERV | ATION DIVISION | |
|---|----------------------------------|-----------|-------------------|--------------------------|----------------------------|--|
| Printed Name: | Electronically filed by Stephani | e Rabadue | Approved By: | Jeffrey Harrison | | |
| Title: Regulatory Manager | | | Title: | Petroleum Specialist III | | |
| Email Address: stephanie.rabadue@permianres.com | | | Approved Date: | 9/15/2025 | Expiration Date: 9/15/2027 | |
| Date: 8/8/2025 Phone: 432-260-4388 | | | Conditions of App | roval Attached | | |

| C-102 State of Ne Energy, Minerals & Natu Submit Electronically OIL CONSERVA | | | | | ıral Resources Depa | artment | | F | Revised July 9, 2024 | |
|---|--|--|--|---|--|--|---|----------------------------|------------------------------------|--|
| Submit Electronically OIL CONSERVA Via OCD Permitting | | | | | HON DIVISION | | | ☑ Initial Su | ıbmittal | |
| | _ | | | | | | | Submittal Type: | ☐ Amende | d Report |
| | | | | | | | | 71 | ☐ As Drille | d |
| , | | | | | WELL LOCAT | ION INFORMATION | | | | |
| API Nu | mber 025-552 | 200 | Pool Code | 2843 | 1 | Pool Name Grama | Ridae: I | Rone S | pring, No | rth |
| Propert | y Code 2607 | .00 | Property N | | | ND STATE UNIT | rtiage, i | Done O | Well Numb | |
| OGRID | No. | _ | Operator N | ame | | | | | | el Elevation |
| | 37216 | 5 wner: Ⅺ State | | | | JRCES OPERATING, | | | □ Tribal □ Fe | 3,684' |
| | - Juliace O | wher. A state | e u ree u | TIIDAI 🗆 | reuerai | Willieral Own | iei. A State | e 🗆 Fee | □ IIIDaI □ FE | euerai |
| | | | 1 | 1 | | ce Location | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | | ongitude. | County |
| | 1 | 21S | 34E | LOT 3 | 401' FNL | 2,330' FWL | 32.5212 | 257° -1 | 03.424518° | LEA |
| T | - · · | Tarronalain | Danne | | ` | Hole Location | 1 44 1 | 1. | | Country |
| UL | Section | Township | Range | Lot | Ft. from N/S 100' FSL | Ft. from E/W | Latitude | | ongitude | County |
| М | 1 | 21S | 34E | | 100° FSL | 330' FWL | 32.5010 | 0/4 -1 | 03.431009° | LEA |
| Dedicat | ted Acres | Infill or Defin | ing Well | Defining | Well API | Overlapping Spacing | Unit (Y/N) | Consolida | ition Code | |
| | 5.12 | Infill | 9 | · | nding | Y | (, , ,) | Conconda | C,F,O | |
| | | L Pending | | l | <u> </u> | Well setbacks are un | nder Commo | on Owners | | No |
| | | <u> Chaing</u> | | | 10.1.0 | « D ((OD) | | | Λ | |
| UL | Section | Township | Range | Lot | Ft. from N/S | ff Point (KOP) Ft. from E/W | Latitude | 1. | ongitude. | County |
| OL | 1 | 21S | 34E | LOT 3 | 401' FNL | 2,330' FWL | 32.5212 | | 03.424518° | LEA |
| | • | 2.0 | 042 | 20.0 | | ake Point (FTP) | 02.0212 | | 00.424010 | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | L | ongitude. | County |
| | 1 | 218 | 34E | LOT 4 | 100' FNL | 330' FWL | 32.5220 | | 03.431007° | LEA |
| | | | | | Last Ta | II ake Point (LTP) | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | L | ongitude. | County |
| М | 1 | 21S | 34E | | 100' FSL | 330' FWL | 32.5010 | 074° -1 | 03.431009° | LEA |
| | | | | | | | | I | | |
| Unitize | d Area or A | rea of Uniform | Interest | Spacing | Unit Type | orizontal □ Vertical | Grou | nd Floor El | evation: | |
| OPER/ | ATOR CER | TIFICATIONS | | | | SURVEYOR CERTIFIC | CATIONS | | | |
| best of r that this in the la well at th unlease | ny knowledge organization nd including t nis location p d mineral inte | e and belief, and either owns a w he proposed bo ursuant to a con erest, or to a vol | I, if the well is a vorking interest ttom hole loca atract with an o luntary pooling | a vertical or or unlease tion or has a wner of a w | complete to the directional well, d mineral interest a right to drill this orking interest or or a compulsory | I hereby certify that the we actual surveys made by m correct to the best of my be | ell location sho ne py under m pelief PP MEX/C | own on this py supervision | plat was plotted to and that the s | from field notes of ame is true and |
| pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. 8/6/2025 | | | | | (12) (12) (12) (13) | ESSIONAL SI | / | | | |
| Signatur | e / M | The same of the sa | NO O | ate | 0/2020 | Signature and Seal of Pro | | Date: 8/4/2025 vevor | | |
| - | onifer Elr | od | ال | | | Signature and occir of F10 | .sssional our | . 5, 5, | | |
| Printed | | <u> </u> | | | | Certificate Number | Date of Surv | /ey | | |
| jelro | d@ntglo | bal.com | | | | 12177 | | | 8/4/2025 | |
| Email A | | | | | | | | | | |
| Note: No | allowable | will be assigne | ed to this con | noletion ur | ntil all interests h | ave been consolidated or | r a non-stan | dard unit h | as been appro | ved by the division |

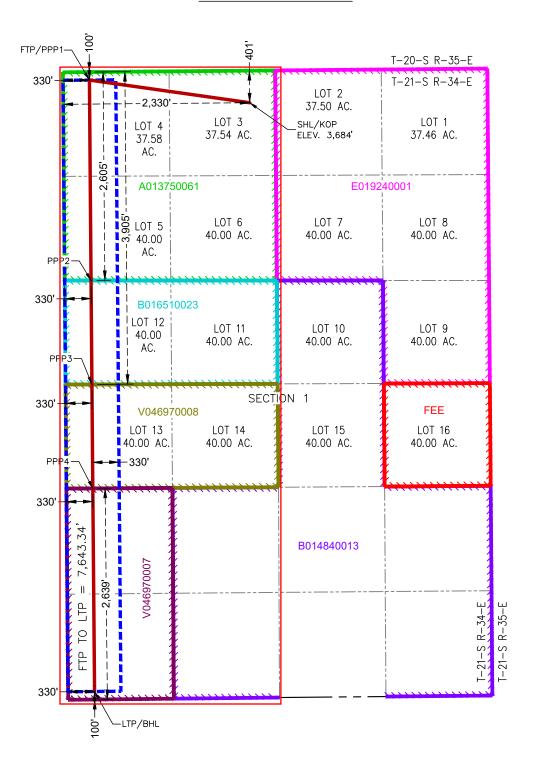
Released to Imaging: 9/15/2025 9:56:11 AM

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

OUTLAND STATE UNIT 136H



SURFACE HOLE LOCATION & KICK-OFF POINT 401' FNL & 2,330' FWL ELEV. = 3.684'

NAD 83 X = 821,459.09' NAD 83 Y = 554,558.43' NAD 83 LAT = 32.521257° NAD 83 LONG = -103.424518° NAD 27 X = 780,276.75' NAD 27 Y = 554,496.41' NAD 27 LAT = 32.521133° NAD 27 LONG = -103.424035°

> FIRST TAKE POINT & PENETRATION POINT 1 100' FNL & 330' FWL

NAD 83 X = 819,456.31' NAD 83 Y = 554,841.77' NAD 83 LAT = 32.522082° NAD 83 LONG = -103.431007° NAD 27 X = 778,274.03' NAD 27 Y = 554,779.73' NAD 27 LAT = 32.521959° NAD 27 LONG = -103.430524°

PENETRATION POINT 2 2,605' FNL & 330' FWL

NAD 83 X = 819,477.20' NAD 83 Y = 552,337.10' NAD 83 LAT = 32.515198° NAD 83 LONG = -103.431008° NAD 27 X = 778,294.84' NAD 27 Y = 552,275.12' NAD 27 LAT = 32.515074° NAD 27 LONG = -103.430525°

PENETRATION POINT 3 3,905' FNL & 330' FWL

NAD 83 X = 819,488.06' NAD 83 Y = 551,037.26' NAD 83 LAT = 32.511625° NAD 83 LONG = -103.431008' NAD 27 X = 778,305.66' NAD 27 Y = 550,975.31' NAD 27 LAT = 32.511501' NAD 27 LONG = -103.430526'

PENETRATION POINT 4 2,639' FSL & 330' FWL

NAD 83 X = 819,498.91' NAD 83 Y = 549,737.41' NAD 83 LAT = 32.508052° NAD 83 LONG = -103.431009° NAD 27 X = 778,316.47' NAD 27 Y = 549,675.50' NAD 27 LAT = 32.507929° NAD 27 LONG = -103.430527°

LAST TAKE POINT & BOTTOM HOLE LOCATION 100' FSL & 330' FWL

NAD 83 X = 819,520.30' NAD 83 Y = 547,198.70' NAD 83 LAT = 32.501074° NAD 83 LONG = -103.431009° NAD 27 X = 778,337.77' NAD 27 Y = 547,136.85' NAD 27 LAT = 32.500950° NAD 27 LONG = -103.430527° Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form APD Conditions

Permit 394971

PERMIT CONDITIONS OF APPROVAL

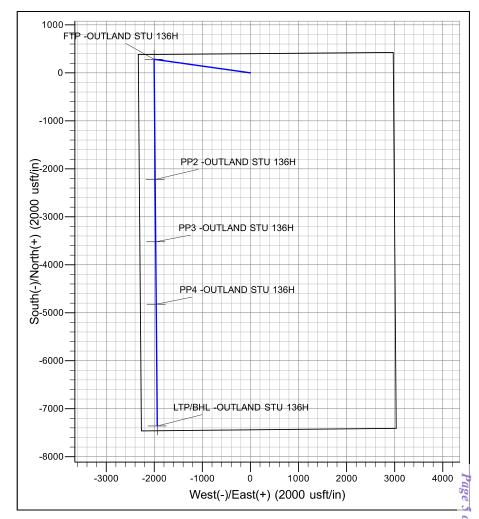
| Operator Name and Address: | API Number: |
|------------------------------------|--------------------------|
| Earthstone Operating, LLC [331165] | 30-025-55200 |
| 300 N. Marienfeld St Ste 1000 | Well: |
| Midland, TX 79701 | OUTLAND STATE UNIT #136H |

| OCD Reviewer | Condition |
|------------------|--|
| jeffrey.harrison | NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit. |
| jeffrey.harrison | No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations. |
| jeffrey.harrison | All logs run on the well must be submitted to NMOCD. |
| jeffrey.harrison | Proposed well is located within the Capitan Aquifer Reef zone. Casing requirements for this area stipulate that the surface and intermediate holes be drilled with fresh water and that casing be set and cemented to surface immediately below the Capitan to isolate it from the rest of the wellbore. |
| jeffrey.harrison | Cement is required to circulate on both surface and intermediate1 strings of casing. |
| jeffrey.harrison | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. |
| jeffrey.harrison | Notify the OCD 24 hours prior to casing & cement. |
| jeffrey.harrison | File As Drilled C-102 and a directional Survey with C-104 completion packet. |
| jeffrey.harrison | A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud. |
| jeffrey.harrison | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string. |
| jeffrey.harrison | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system. |

SECTION DETAILS Received by OCD: Project: (SP) LEA Sec MD TVD +N/-S +E/-W Dleg TFace VSect Annotation 0.0 0.00 0.00 0.0 0.0 0.00 0.0 0.0 Site: OUTLAND STATE PROJECT Start Build 2.00 0.00 0.00 1500.0 0.00 1500.0 0.0 0.0 0.00 0.0 Well: OUTLAND STATE UNIT 136H 2250.0 15.00 278.05 2241.5 13.7 -96.7 2.00 278.05 11.4 Start 7060.9 hold at 2250.0 MD 4 9310.9 15.00 278.05 9061.8 269.7 -1906.1 0.00 0.00 224.8 Start Drop -2.00 Wellbore: OWB 5 10060.9 0.00 0.00 9803.2 283.3 -2002.8 2.00 180.00 236.2 Start 919.3 hold at 10060.9 MD Design: PWP0 6 10980.2 0.00 0.00 10722.5 283.3 -2002.8 0.00 0.00 236.2 Start DLS 12.00 TFO 179.52 90.00 179.52 11200.0 7 11730.2 -194.1 -1998.8 12.00 179.52 696.9 Start 7165.9 hold at 11730.2 MD 8 18896.0 90.00 179.52 11200.0 -7359.7 -1938.8 0.00 7610.8 TD at 18896.0 WELL DETAILS: OUTLAND STATE UNIT 136H DESIGN TARGET DETAILS TVD +N/-S +E/-W Northing Easting Lonaitude Northing Easting Latittude Longitude FTP -OUTLAND STU 136H 11200.0 283.3 -2002.8 554841.77 819456.3132° 31' 19.497 N 103° 25' 51.624 W 821459.09 32° 31' 16.525 N 103° 25' 28.263 W 0.0 554558.43 LTP/BHL -OUTLAND STU 136H 11200.0 -7359.7 -1938.8 547198.70 819520.30 32° 30' 3.868 N 103° 25' 51.633 W PP2 -OUTLAND STU 136H 11200.0 -2221.3 -1981.9 552337.10 819477.2032° 30' 54.713 N 103° 25' 51.628 W PP3 -OUTLAND STU 136H 551037.26 819488.0632° 30' 41.851 N 103° 25' 51.630 W 11200.0 -3521.2 -1971.0 PP4 -OUTLAND STU 136H 11200.0 549737.41 819498.9132° 30' 28.989 N 103° 25' 51.632 W -4821.0 -1960.2

| 5000 | | TVDPath | MDPath | Formation |
|---------|--|---------------|---------------|---------------------------|
| , - | | 1923.0 | 1924.6 | Rustler |
| <i></i> | | 2285.0 | 2295.1 | Salado |
| 6000 | | 3739.0 | 3800.4 | Yates |
| - | | 4098.0 | 4172.0 | Capitan Reef |
| .] | | 5681.0 | 5810.9 | Cherry Canyon |
| - | | 6755.0 | 6922.8 | Brushy Canyon |
| 7000 | | 8005.0 | 8216.9 | Bone Spring Lime |
| _ | | 9527.0 | 9784.2 | First Bone Spring Sand |
| | | 10172.0 | 10429.7 | Second Bone Spring Sand |
| 8000 | Start Drop -2.00 | 10596.0 | 10853.7 | Third Bone Spring Carb |
| - | | | | |
| 1 | | | | |
| - | Start 919.3 hold at 10060.5 | | | |
| 9000 | Start DLS 12.00 TFO 17 | 9.52 | | |
| 4 | | | LITE AND OTH | 40011 |
| | Start 7165.9 hold at 1 | 1730.2 MD | OUTLAND STU 1 | 136H |
| 10000 | | , | / | |
| | PP2 -OUT | LAND STU 136H | PP4 -OUTLA | ND STU 136H |
| 4 | | / | | TD at 18896.0 |
| 11000 | | | | |
| 110007 | | V | | |
| - | | | | |
|] | FTP -OUTLAND STU 136H | | | LTP/BHL -OUTLAND STU 136H |
| 12000 🕂 | | | | |
| -1000 | 0 1000 2000 30 | 00 4000 | 5000 600 | 00 7000 8000 9000 |

Vertical Section at 194.76° (2000 usft/in)



NEW MEXICO

(SP) LEA
OUTLAND STATE PROJECT
OUTLAND STATE UNIT 136H

OWB

Plan: PWP0

Standard Planning Report - Geographic

01 August, 2025

Planning Report - Geographic

Database: Compass 17 Company: **NEW MEXICO** Project: (SP) LEA

OUTLAND STATE PROJECT Site: Well: **OUTLAND STATE UNIT 136H**

Wellbore: **OWB** Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well OUTLAND STATE UNIT 136H

KB @ 3710.0usft KB @ 3710.0usft

Grid

Minimum Curvature

Project (SP) LEA

US State Plane 1983 Map System: Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site **OUTLAND STATE PROJECT**

537,441.40 usft Northing: Site Position: Latitude: 32° 28' 27.249 N Easting: 820,429.95 usft 103° 25' 41.978 W Мар Longitude: From:

Slot Radius: **Position Uncertainty:** 0.0 usft 13-3/16 "

Well **OUTLAND STATE UNIT 136H**

Well Position +N/-S 0.0 usft Northing: 554,558.43 usfl Latitude: 32° 31' 16.525 N +E/-W 0.0 usft Easting: 821,459.09 usfl Longitude: 103° 25' 28.263 W

Position Uncertainty 0.0 usft Wellhead Elevation: usf Ground Level: 3,684.0 usft

Grid Convergence: 0.49°

Wellbore OWB

Declination Dip Angle **Field Strength Magnetics Model Name** Sample Date (nT) (°) (°) IGRF200510 7.70 60.54 48.987.19032716 12/31/2009

Design PWP0

Audit Notes:

Version: Phase: **PROTOTYPE** Tie On Depth: 0.0

Vertical Section: Depth From (TVD) +E/-W Direction +N/-S (usft) (usft) (usft) (°) 0.0 0.0 0.0 194.76

Plan Survey Tool Program Date 8/1/2025

Depth From Depth To

Tool Name (usft) (usft) Survey (Wellbore) Remarks

0.0 18,896.0 PWP0 (OWB) MWD 1

OWSG Rev2 MWD - Star

| Plan Section | s | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|---------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,250.0 | 15.00 | 278.05 | 2,241.5 | 13.7 | -96.7 | 2.00 | 2.00 | 0.00 | 278.05 | |
| 9,310.9 | 15.00 | 278.05 | 9,061.8 | 269.7 | -1,906.1 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,060.9 | 0.00 | 0.00 | 9,803.2 | 283.3 | -2,002.8 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 10,980.2 | 0.00 | 0.00 | 10,722.5 | 283.3 | -2,002.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 11,730.2 | 90.00 | 179.52 | 11,200.0 | -194.1 | -1,998.8 | 12.00 | 12.00 | 23.94 | 179.52 | |
| 18,896.0 | 90.00 | 179.52 | 11,200.0 | -7,359.7 | -1,938.8 | 0.00 | 0.00 | 0.00 | 0.00 LT | P/BHL -OUTLAN |

Planning Report - Geographic

Database:Compass_17Company:NEW MEXICOProject:(SP) LEA

Site: OUTLAND STATE PROJECT
Well: OUTLAND STATE UNIT 136H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well OUTLAND STATE UNIT 136H

KB @ 3710.0usft KB @ 3710.0usft

Grid

Minimum Curvature

| Planned Surv | /ey | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|--------------------------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 0.0 1,500.0 | | 0.00 0.00 | 0.0 1,500.0 | 0.0 0.0 | 0.0 0.0 | 554,558.43 554,558.43 | 821,459.09 821,459.09 | 32° 31' 16.525 N 32° 31' 16.525 N | 103° 25' 28.263 W 103° 25' 28.263 W |
| Start B | uild 2.00 | | | | | | | | |
| 2,250.0 | 15.00 | 278.05 | 2,241.5 | 13.7 | -96.7 | 554,572.11 | 821,362.44 | 32° 31′ 16.669 N | 103° 25' 29.390 W |
| Start 7 | 060.9 hold at | t 2250.0 MD | | | | | | | |
| 9,310.9 | 15.00 | 278.05 | 9,061.8 | 269.7 | -1,906.1 | 554,828.10 | 819,552.96 | 32° 31′ 19.354 N | 103° 25' 50.497 W |
| Start D | rop -2.00 | | | | | | | | |
| 10,060.9 | 0.00 | 0.00 | 9,803.2 | 283.3 | -2,002.8 | 554,841.77 | 819,456.31 | 32° 31′ 19.497 N | 103° 25' 51.624 W |
| Start 9 | 19.3 hold at | 10060.9 MD | | | | | | | |
| 10,980.2 | 0.00 | 0.00 | 10,722.5 | 283.3 | -2,002.8 | 554,841.77 | 819,456.31 | 32° 31' 19.497 N | 103° 25' 51.624 W |
| Start D | LS 12.00 TF | O 179.52 | | | | | | | |
| 11,730.2 | 90.00 | 179.52 | 11,200.0 | -194.1 | -1,998.8 | 554,364.33 | 819,460.31 | 32° 31' 14.773 N | 103° 25' 51.625 W |
| Start 7 | 165.9 hold at | t 11730.2 MC |) | | | | | | |
| 18,896.0 | 90.00 | 179.52 | 11,200.0 | -7,359.7 | -1,938.8 | 547,198.70 | 819,520.30 | 32° 30′ 3.868 N | 103° 25' 51.633 W |
| TD at 1 | 8896.0 | | | | | | | | |

| Design Targets | | | | | | | | | |
|---|------------------|-----------------|------------------------|---------------------------|-------------------------|----------------------------------|-----------------|------------------|-------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| LTP/BHL -OUTLAND - plan hits target o - Point | 0.00 enter | 0.00 | 11,200.0 | -7,359.7 | -1,938.8 | 547,198.70 | 819,520.30 | 32° 30' 3.868 N | 103° 25' 51.633 W |
| PP4 -OUTLAND STU - plan misses targ - Point | | | 11,200.0 6357.2usfl | -4,821.0 MD (11200.0 | -1,960.2 TVD, -482 | , | 819,498.91 | 32° 30' 28.989 N | 103° 25' 51.632 W |
| FTP -OUTLAND STU - plan misses targ - Point | | | 11,200.0 t 11355.2u | 283.3 sft MD (11060 | -2,002.8 0.1 TVD, 14 | 554,841.77 43.5 N, -2001.6 E) | 819,456.31 | 32° 31' 19.497 N | 103° 25' 51.624 W |
| PP2 -OUTLAND STU - plan misses targ - Point | | | 11,200.0 at 11730.2 | -2,221.3 usft MD (1120 | -1,981.9 00.0 TVD, - | 552,337.10 194.1 N, -1998.8 E | 819,477.20) | 32° 30' 54.713 N | 103° 25' 51.628 W |
| PP3 -OUTLAND STU - plan misses targ - Point | | | 11,200.0 at 11730.2 | -3,521.2 usft MD (1120 | -1,971.0 00.0 TVD, - | 551,037.26 194.1 N, -1998.8 E | 819,488.06) | 32° 30' 41.851 N | 103° 25' 51.630 W |

Planning Report - Geographic

Database:Compass_17Company:NEW MEXICOProject:(SP) LEA

Site: OUTLAND STATE PROJECT
Well: OUTLAND STATE UNIT 136H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well OUTLAND STATE UNIT 136H

KB @ 3710.0usft KB @ 3710.0usft

Grid Minimum Curvature

| Formations | | | | | | |
|------------|-----------------------------|-----------------------------|-------------------------|-----------|------------|-------------------------|
| | Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| | 1,924.6 | 1,923.0 | Rustler | | | |
| | 2,295.1 | 2,285.0 | Salado | | | |
| | 3,800.4 | 3,739.0 | Yates | | | |
| | 4,172.0 | 4,098.0 | Capitan Reef | | | |
| | 5,810.9 | 5,681.0 | Cherry Canyon | | | |
| | 6,922.8 | 6,755.0 | Brushy Canyon | | | |
| | 8,216.9 | 8,005.0 | Bone Spring Lime | | | |
| | 9,784.2 | 9,527.0 | First Bone Spring Sand | | | |
| | 10,429.7 | 10,172.0 | Second Bone Spring Sand | | | |
| | 10,853.7 | 10,596.0 | Third Bone Spring Carb | | | |

| Plan Annotations | | | | |
|-----------------------------|-----------------------------|-------------------------------|----------------------------|---------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coor +N/-S (usft) | dinates +E/-W (usft) | Comment |
| 1,500.0 | 1,500.0 | 0.0 | 0.0 | Start Build 2.00 |
| 2,250.0 | 2,241.5 | 13.7 | -96.7 | Start 7060.9 hold at 2250.0 MD |
| 9,310.9 | 9,061.8 | 269.7 | -1,906.1 | Start Drop -2.00 |
| 10,060.9 | 9,803.2 | 283.3 | -2,002.8 | Start 919.3 hold at 10060.9 MD |
| 10,980.2 | 10,722.5 | 283.3 | -2,002.8 | Start DLS 12.00 TFO 179.52 |
| 11,730.2 | 11,200.0 | -194.1 | -1,998.8 | Start 7165.9 hold at 11730.2 MD |
| 18,896.0 | 11,200.0 | -7,359.7 | -1,938.8 | TD at 18896.0 |

Permian Resources - Outland State Unit 136H

1. Geologic Formations

| Formation | Elevation | TVD | Target |
|----------------------|-----------|-------|--------|
| Rustler | 1791 | 1923 | No |
| Top of Salt | 1429 | 2285 | No |
| Yates | -25 | 3739 | No |
| Capitan | -384 | 4098 | No |
| Cherry Canyon | -1967 | 5681 | No |
| Brushy Canyon | -3041 | 6755 | No |
| Bone Spring Lime | -4291 | 8005 | No |
| 1st Bone Spring Sand | -5813 | 9527 | No |
| 2nd Bone Spring Sand | -6458 | 10172 | No |
| 3rd Bone Spring Carb | -6882 | 10596 | No |
| 3rd Bone Spring Sand | -7492 | 11206 | Yes |

2. Blowout Prevention

| and tested before drilling which | Size? | Min. Required WP | Туре | | x | Tested to: |
|----------------------------------|---------|------------------------|------------|-------|---|------------|
| | | | Anr | nular | Х | 2500 psi |
| | | | Blind | Ram | Х | |
| 12.25 | 13-5/8" | 5M | Pipe Ram | | Х | 5000 psi |
| | | | Double Ram | | | Sooo psi |
| | | | Other* | | | |
| | | | Anr | nular | Х | 2500 psi |
| | | | Blind Ram | | Х | - |
| 8.75 | 13-5/8" | 5M | Pipe Ram | | Х | 5000 nai |
| | | | Doubl | e Ram | | 5000 psi |
| | | | Other* | | | 1 |

Equipment: BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. All BOPE connections shall be flanged, welded or clamped. All choke lines shall be straight unless targeted with running tees or tee blocks are used, and choke lines shall be anchored to prevent whip and reduce vibrations. All valves in the choke line & the choke manifold shall be full opening as to not cause restrictions and to allow for straight fluid paths to minimize potential erosion. All gauges utilized in the well control system shall be of a type designed for drilling fluid service. A top drive inside BOP valve will be utilized at all times. Subs equipped with full opening valves sized to fit the drill pipe and collars will be available on the rig floor in the open position. The key to operate said valve equipped subs will be on the rig floor at all times. The accumulator system will have sufficient capacity to open the HCR and close all three sets of rams plus the annular preventer while retaining at least 300 psi above precharge on the closing manifold (accumulator system shall be capable of doing so without using the closing unit pumps). The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity, and the fluid level will be maintained at the manufacturer's recommended level. Prior to connecting the closing unit to the BOP stack, an accumulator precharge pressure test shall be performed to ensure the precharge pressure is within 100 psi of the desired precharge pressure (only nitrogen gas will be used to precharge). Two independent power sources will be made available at all times to power the closing unit pumps so that the pumps can automatically start when the closing valve manifold pressure has decreased to the preset level. Closing unit pumps will be sized to allow opening of HCR and closing of annular preventer on 5" drill pipe achieving at least 200 psi above precharge pressure with the accumulator system isolated from service in less than two minutes. A valve shall be installed in the closing line as close to the annular preventer as possible to act as a locking device; the valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative. Remote controls capable of opening and closing all preventers & the HCR shall be readily accessible to the driller; master controls with the same capability will be operable at the accumulator. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing & isolation of the 133/8 x 95/8 annulus without breaking the connection between the BOP & wellhead to install an additional casing head. A wear bushing will be installed & inspected frequently to guard against internal wear to wellhead. VBRs (variablebore rams) will be run in upper rambody of BOP stack to provide redundancy to annular preventer while RIH w/ production casing;

Requesting Variance? YES

Variance request: Flex hose and offline cement variances, see attachments in section 8.

Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 3500 psi. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 31605), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator and a multi-bowl system will be used, please see attachment in section 8 for multi-bowl procedure. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Choke Diagram Attachemnt: 5 M Choe Manifold BOP Diagram Attachment: BOP Schematic

3. Casing

| String | Hole Size | Casing Size | Тор | Bottom | тор тур | Bottom TVD | Length | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|--------------|-----------|-------------|-------|--------|---------|------------|--------|--------|---------|------------|-------------|----------|---------------|----------|--------------|---------|
| Surface | 17.5 | 13.375 | 0 | 1948 | 0 | 1948 | 1948 | J55 | 54.5 | BTC | 1.17 | 1.47 | Dry | 4.41 | Dry | 4.14 |
| Intermediate | 12.25 | 9.625 | 0 | 5731 | 0 | 5731 | 5731 | J55 | 40 | BTC | 2.11 | 1.39 | Dry | 2.17 | Dry | 1.91 |
| Production | 8.75 | 5.5 | 0 | 11730 | 0 | 11200 | 11730 | P110RY | 20 | Bushmast | 1.82 | 1.89 | Dry | 1.98 | Dry | 1.98 |
| Production | 8.5 | 5.5 | 11730 | 18896 | 11200 | 11200 | 7166 | P110RY | 20 | Bushmast | 1.82 | 1.89 | Dry | 1.98 | Dry | 1.98 |
| | | | | | | | | BLM M | in Safe | ty Factor | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

4. Cement

| String | Lead/Tail | Top MD | Bottom MD | Quanity (sx) | Yield | Density | Cu Ft | Excess % | Cement Type | Additives |
|------------------------|-----------|--------|-----------|--------------|-------|---------|-------|----------|-------------|--|
| Surface | lead | 0 | 1550 | 1150 | 1.88 | 12.9 | 2160 | 100% | Class C | EconoCem-HLC + 5% Salt + 5% Kol-Seal |
| Surface | Tail | 1550 | 1948 | 320 | 1.34 | 14.8 | 420 | 50% | Class C | Accelerator |
| Intermediate | Lead | 3764 | 4580 | 210 | 1.88 | 12.9 | 390 | 50% | Class C | EconoCem-HLC + 5% Salt + 5% Kol-Seal |
| Intermediate | Tail | 4580 | 5731 | 420 | 1.34 | 14.8 | 550 | 50% | Class C | Retarder |
| Stage Tool Depth | | 3764 | | | | | | | | |
| Intermediate 2nd Stage | Lead | 0 | 3264 | 710 | 1.88 | 12.9 | 1330 | 50% | Class C | EconoCem-HLC + 5% Salt + 5% Kol-Seal |
| Intermediate 2nd Stage | Tail | 3264 | 3764 | 160 | 1.33 | 14.8 | 200 | 25% | Class C | Salt |
| Production | Lead | 5231 | 10980 | 830 | 2.41 | 11.5 | 1990 | 40% | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |
| Production | Tail | 10980 | 18896 | 1330 | 1.73 | 12.5 | 2290 | 25% | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |
| | | | | | | | | | | |

Bradenhead Variance ProcedureIntermediate CasingPermian Resources requests to pump a two-stage cement job on the intermediate casingstring with the first stage being pumped conventionally with the calculated top of cement at the Cherry Canyon and the second stage performed as a bradenhead squeeze with planned cementfrom the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, thefinal ce-ment top after the second stage job will be verified by Echo-meter. If necessary, a top outconsist-ing of 1,500 sack of Class C cement + 3% Salt + Bentonite Gel (2.30 yld, 12.9 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echometer runwill be performed for cement top verification. Permian Resources will include the Echo-meter verified fluid top and the volume of displacementfluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cementprogram. Permian Resources will report to the BLM the volume of fluid (limited to 5 bbls) used to flushintermediate casing valves following backside cementing procedures. Permian Resources requests to pump an Optional Lead if well conditions dictate in an attempt tobring cement inside the surface casing. If cement reaches the desired height, the BLM will benotified and the second stage bradenhead squeeze and subsequent TOC verification will benegated.Permian Resources requests the option to conduct the bradenhead squeeze and TOC verificationoffline as per standard approval from BLM when unplanned remediation is needed and batchdrilling is approved. In the event the bradenhead is conducted, we will ensure the first stagecement job is cemented properly and the well is static with floats holding and no pressure on thecsg annulus as with all other casing strings where batch drilling operations occur before moving offthe rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing willbe monitored via the valve on the TA cap as per standard batch drilling ops.

5. Circulating Medium

Mud System Type: Closed

Will an air or gas system be used: No

Describe what will be on location to control well or mitigate oter conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted

Cuttings Volume: 11690 Cu Ft

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight | Max Weight |
|-----------|--------------|-----------------|------------|------------|
| 0 | 1948 | Spud Mud | 8.6 | 9.5 |
| 1948 | 5731 | Water Based Mud | 10 | 10 |
| 5731 | 11730 | OBM | 9 | 10.5 |
| 11730 | 18896 | OBM | 9 | 10.5 |

6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY, GAMMA RAY LOG,

Coring operation description for the well:

N/A

7. Pressure

| Anticipated Bottom Hole Pressure | 6120 | psi |
|---|------|-----|
| Anticipated Surface Pressure | 3651 | psi |
| Anticipated Bottom Hole Temperature | 166 | °F |
| Anticipated Abnormal pressure, temp, or geo hazards | No | |

8. Waste Management

| Waste Type: | Drilling |
|-------------------------------|--|
| Waste content description: | Fresh water based drilling fluid |
| Amount of waste: | 1500 bbls |
| Waste disposal frequency: | Weekly (after drilling all surfaces) |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Grey Water & Human Waste |
| Waste content description: | Grey Water/Human Waste |
| Amount of waste: | 5000 gallons |
| Waste disposal frequency: | Weekly |
| Safe containment description: | Approved waste storage tanks with containment |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Garbage |
| Waste content description: | General trash/garbage |
| Amount of waste: | 5000 lbs |
| Waste disposal frequency: | Weekly |
| Safe containment description: | Enclosed trash trailer |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Drilling |
| Waste content description: | Drill Cuttings |
| Amount of waste: | 11690 Cu Ft |
| Waste disposal frequency: | Per well |
| Safe containment description: | Steel tanks |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| Waste Type: | Drilling |
| Waste content description: | Brine water based drilling fluid |
| Amount of waste: | 1500 bbls |
| Waste disposal frequency: | Monthly |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |

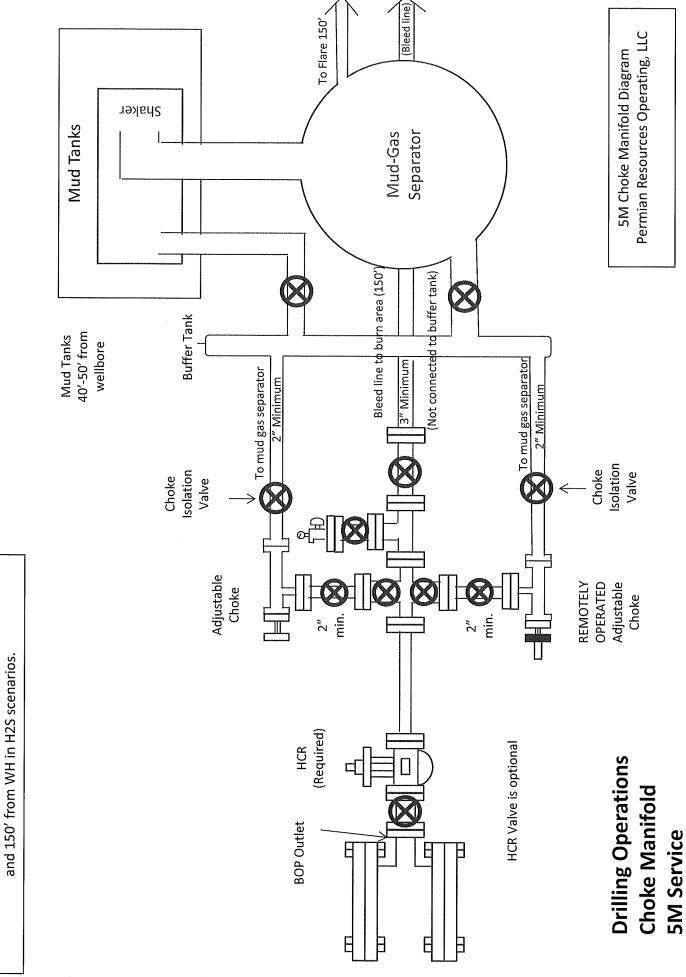
9. Other Information

Well Plan and AC Report: attached Batching Drilling Procedure: attached

WBD: attached

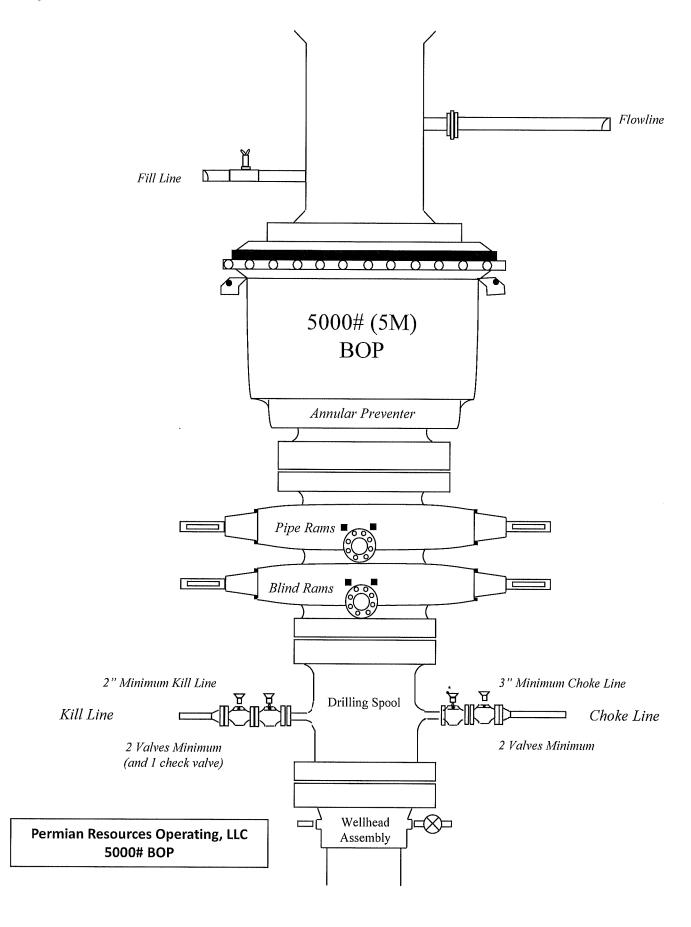
Flex Hose Specs: attached

Offline Cementing Procedure Attached:



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Bleed lines will discharge 100' from WH in non-H2S scenarios



Bleed lines will discharge 100' from WH in non-H2S scenarios and 150' from WH in H2S scenarios.

Permian Resources Multi-Well Pad Batch Drilling Procedure

<u>Surface Casing</u> - PR intends to Batch set all surface casing to a depth approved in the APD. Surface Holes will be batch drilled by a rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

- 1. Drill Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
- 2. Run and land planned surface casing see Illustration 1-1 Below to depth approved in APD.
- 3. Set packoff and test to 5k psi
- 4. Offline Cement
- 5. Install wellhead with pressure gauge and nightcap. Nightcap is shown on final wellhead Stack up Illustration #2-2.
- 6. Skid Rig to adjacent well to drill Surface hole.
- 7. Surface casing test will be performed by the rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater not to exceed 70% casing burst.

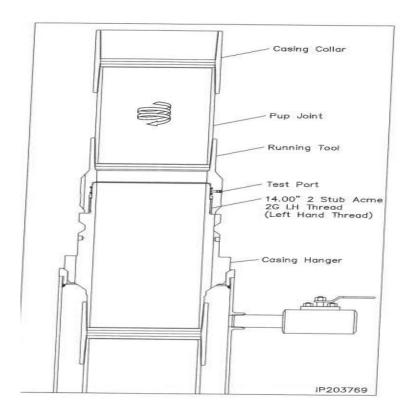


Illustration 1-1

<u>Intermediate Casing</u> – PR intends to Batch set all intermediate casing strings to a depth approved in the APD. Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior to testing BOPE, and prior to running/cementing all casing strings.

- 1. Rig will remove the nightcap and install and test BOPE.
- 2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test
- 3. Install wear bushing then drill out surface casing shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
- 4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
- 5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
- 6. Cement casing to surface with floats holding.
- 7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
- 8. Install pack-off and test void to 5,000 psi for 15 minutes. Nightcap shown on final wellhead stack up illustration 2-2 on page 3.
- 9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
- 10. Install nightcap skid rig to adjacent well to drill Intermediate hole.

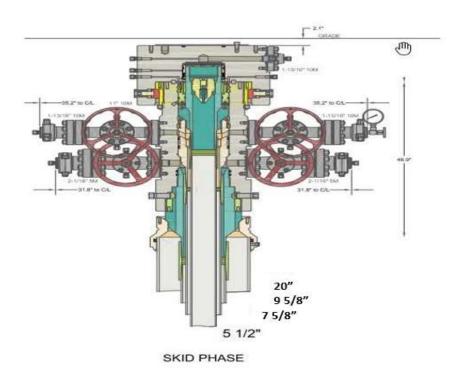


Illustration 2-2

<u>Production Casing</u> – PR intends to Batch set all Production casings with Rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

- 1. Drilling Rig will remove the nightcap and install and test BOPE.
- 2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
- 3. Drill Vertical hole to KOP Trip out for Curve BHA.
- 4. Drill Curve, landing in production interval Trip for Lateral BHA.
- 5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run Production Casing.
- 6. Remove wear bushing then run Production casing to TD landing casing mandrel in wellhead.
- 7. Cement Production string with floats holding.
- 8. Run in with wash tool and wash wellhead area install pack-off and test void to 5,000psi for 15 minutes.
- 9. Install BPV in Production mandrel hanger Nipple down BOPE and install nightcap.
- 10. Test nightcap void to 5,000 psi for 30 minutes per illustration 2-2
- 11. Skid rig to adjacent well on pad to drill production hole.

Permian Resources BOP Break Testing Variance Procedure

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE). Permian Resources requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Title 43 CFR 3172, Drilling Operations, Sections 6.b.9.iv states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. 43 CFR 3172.13, Variances from minimum standards states, "An operator may request the authorized officer to approve a variance from any of the minimum standards prescribed in §§ 3172.6 through 3172.12. All such requests shall be submitted in writing to the appropriate authorized officer and provide information as to the circumstances which warrant approval of the variance(s) requested and the proposed alternative methods by which the related minimum standard(s) are to be satisfied. The authorized officer, after considering all relevant factors, if appropriate, may approve the requested variance(s) if it is determined that the proposed alternative(s) meet or exceed the objectives of the applicable minimum standard(s).". Permian Resources feels the break testing the BOPE is such a situation. Therefore, as per 43 CFR 3172.13, Permian Resources submits this request for the variance.

Supporting Documentation

The language used in 43 CFR 3172 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time, there have been significant changes in drilling technology. The BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR 3172 was originally released. The Permian Resources drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System



American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. 43 CFR 3172 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

| 52 | API STANDARD | 53 | |
|--|---|---|---|
| Та | ble C.4—Initial Pressure Te | esting, Surface BOP Stacks | |
| | Pressure Test—Low | Pressure Test | -High Pressure** |
| Component to be Pressure Tested | Pressure** psig (MPa) | Change Out of Component, Elastomer, or Ring Gasket | No Change Out of Component, Elastomer, or Ring Gasket |
| Annular preventer | 250 to 350 (1.72 to 2.41) | RWP of annular preventer | MASP or 70% annular RWP, whichever is lower. |
| Fixed pipe, variable bore, blind, and BSR preventers∞ | 250 to 350 (1.72 to 2.41) | RWP of ram preventer or wellhead system, whichever is lower | ІТР |
| Choke and kill line and BOP side outlet valves below ram preventers (both sides) | 250 to 350 (1.72 to 2 41) | RWP of side outlet valve or wellhead system, whichever is lower | ITP |
| Choke manifold—upstream of chokes* | 250 to 350 (1.72 to 2.41) | RWP of ram preventers or wellhead system, whichever is lower | ITP |
| Choke manifold—downstream of chokes* | 250 to 350 (1.72 to 2.41) | RWP of valve(s), line(s), or M whichever is lower | ASP for the well program, |
| Kelly, kelly valves, drill pipe safety valves, IBOPs | 250 to 350 (1.72 to 2.41) | MASP for the well program | |
| | during the evaluation period. The p | ressure shall not decrease below the allest OD drill pipe to be used in well p | |
| For pad drilling operations, moving pressure-controlling connections | from one wellhead to another within when the integrity of a pressure se- | n the 21 days, pressure testing is requal is broken. | uired for pressure-containing and |
| For surface offshore operations, the | e ram BOPs shall be pressure test land operations, the ram BOPs sha | led with the ram locks engaged and all be pressure tested with the ram loc | the closing and locking pressure iks engaged and the closing and |

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

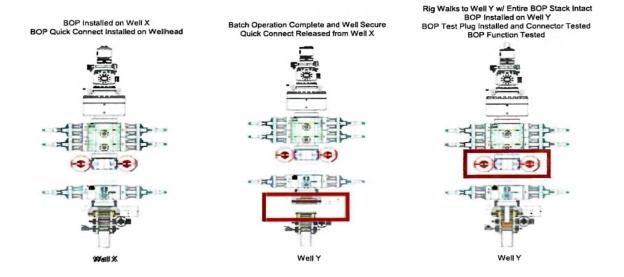
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

Permian Resources feels break testing and our current procedures meet the intent of 43 CFR 3172 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. Permian Resources internal standards require complete BOPE tests more often than that of 43 CFR 3172 (every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, Permian Resources performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of 43 CFR 3172.

Procedures

- 1) Permian Resources will use this document for our break testing plan for New Mexico Delaware Basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
- 2) Permian Resources will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a)A full BOP test will be conducted on the first well on the pad.
- b) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same formation depth or shallower.
- c) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d) A full BOP test will be required prior to drilling any production hole.
- 3) After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a) Between the HCV valve and choke line connection
 - b)Between the BOP quick connect and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5) After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6) The connections mentioned in 3a and 3b will then be reconnected.
- 7) Install test plug into the wellhead using test joint or drill pipe.
- 8) A shell test is performed against the upper pipe rams testing the two breaks.
- 9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10) Function tests will be performed on the following components: lower pipe rams, blind rams, and annular.
- 11) For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12) A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

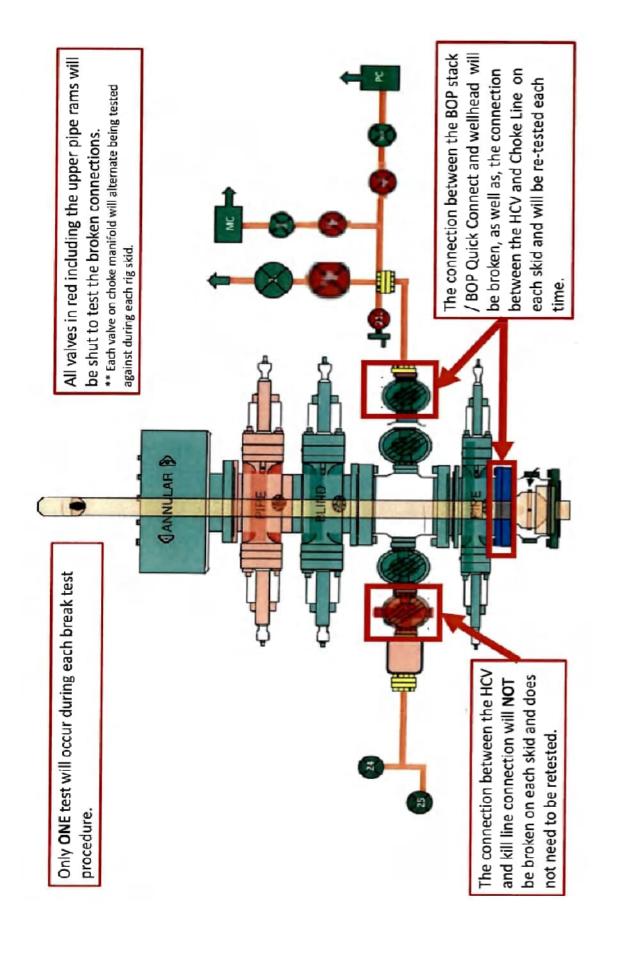
A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control

event occurs prior to the commencement of a BOPE Break Testing operation.

Based on public data and the supporting documentation submitted herein to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1) After a full BOP test is conducted on the first well on the pad.
- 2) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same depth or shallower.
- 3) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4) A full BOP test will be required prior to drilling the production hole.



©ntinental**⅓**

ContiTech Fluid Technology

| ContiTech | Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX | Packing list / Delivery note |
|-------------------------------------|--|--|
| 77041-69 | | Document No. 71461553 |
| | | Document Date 28.01.2022 |
| CONSI | GNEE / Ship-to address: | Customer Number 11697 |
| HELMERICH & PAYNE INT'L DRILLING CO | | Customer VAT No. |
| ATTN: | FLEX RIG WHSE - B-BAY | Supplier Number Purchase Order No. 740362040 |
| 210 MA | AGNOLIA DRIVE | Purchase Order No. 740362040 Purchase Order Date 18.01.2022 |
| GALEN | NA PARK TX 77547 | Sales Order Number 1388153 |
| Buyer: | | Sales Order Number 1360133 |
| | | Gales Order Date 10.01.2022 |
| | ERICH & PAYNE INT'L DRILLING CO | Unloading Point |
| | SOUTH BOULDER | RAN-No. |
| /4119 | TULSA | |
| Conditi | ions | |
| Jonati | | Page 1 of 2 |
| Incoter | rms EXW Houston | Weights (Gross / Net) |
| | Ex Works | Total Gross Weight 2,507.000 LB |
| | | Total Net Weight 2,507.000 LB |
| Item | Material/Description | Quantity Net Weight Gross Weigh |
| | Buyer: Jack Peebles | |
| | E-mail: Jackie.Peebles@hpinc.com | |
| | Tel: 832-782-6000 | |
| | DinAM/hoo, HOW | |
| 20 | Rig/Whse: HOW OORECERTIFY | 1 PC 2,507.000 LB 2,507.000 I |
| 20 | | 2,007:000 25 2,007:000 |
| | Recert of HP Hoses Serial# 67094 Commodity Code: | |
| | 3" X 35 FT 10K Choke & Kill Hoses API 16C | |
| | End 1: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange | |
| | End 2: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w B | X155 ring groove each end |
| | Standard: API Spec 16C - Monogrammed | Search Control of the |
| | | .10 |
| | Working Pressure: 10,000psi | 140- |
| | Test Pressure: 15,000psi | · D'U |
| | Inspection & Certification includes: | x155 ring groove each end |
| | External inspection of the hose & couplings | 470 10 |
| | Internal boroscopic inspection of hose liner | 00 101 |
| | Hydrostatic pressure test of hose assembly | |
| | Repair of any external damage to hose body and end connect | ctions (limited |
| 1 | White the state of | 1 |

ContiTech Rubber Industrial Kft.
H-6728 Szeged Budapesti út 10.
P. O. Box 152 Szeged H-6701
Phone: (62)566-700, Fax: (62)566-713
Tax Number: 11087209-2-06
EU Community VAT: HU11087209
Registration No.: Cg. 0609-002502
Registry Court: Csongrád Megyei Cégbíróság

to minor repairs).

Clean & protect end connections Inspection Report

Please Flush Hoses before sending them to our Facility.

Disposal of hose assembly if hose fails inspection and recertification

COMMERZBANK ZRT. (HUF) H-1054 Budapest, Széchenyi rakpart 8. H-1245 Budapest P.O. Box 1070 Account No.: 14220108-26830003 IBAN: HU83 1422 0108 2683 0003 0000 0000 SWIFT: COBA HU HXXXX COMMERZBANK AG Hannover (EUR) 30159 Hannover, Theaterstr. 11-12. Account No.: 3 066 156 00 Sort Code: 250 400 66 BIC: COBADEFF250 IBAN: DE41250400660306615600

Hydrostatic Test Certificate



ContiTech

| | | Contilect |
|---|--------------------------------|---|
| Certificate Number H100122 | COM Order Reference 1388153 | Customer Name & Address HELMERICH & PAYNE DRILLING CO |
| Customer Purchase Order No: | 740362040 | 1434 SOUTH BOULDER AVE TULSA, OK 74119 |
| Project: | | USA |
| Test Center Address | Accepted by COM Inspection | Accepted by Client Inspection |
| ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA | Signed: Date: 02/09/22 | ? |

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

| Item | Part No. | Description | Qnty | Serial Number | Work. Press. (psi) | Test Press. (psi) | Test Time (minutes) |
|------|----------|-------------|------|---------------|-----------------------|----------------------|------------------------|
| | | | | | | | |

20 RECERTIFICATION

3" ID 10K Choke and Kill Hose x 35ft OAL

67094

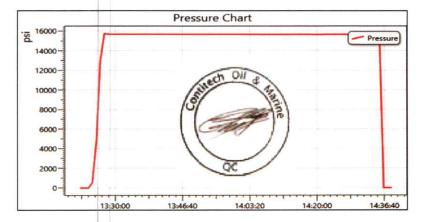
10,000

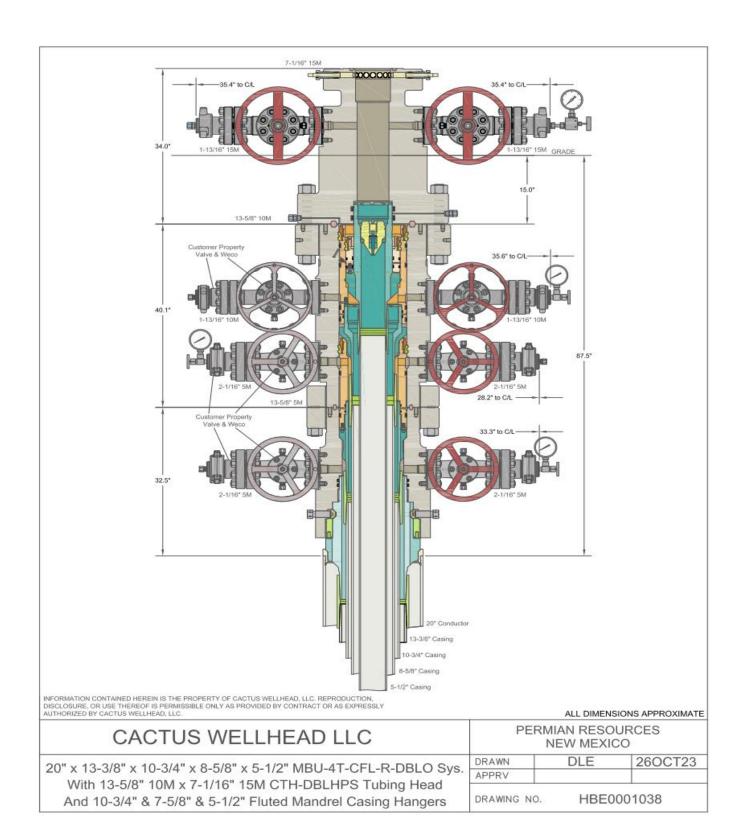
15,000

60

| Record Information | | | |
|--------------------|--------------------|--|--|
| Start Time | 1/27/2022 13:21:21 | | |
| End Time | 1/27/2022 14:38:28 | | |
| Interval | 00:01:00 | | |
| Number | 78 | | |
| MaxValue | 15849 | | |
| MinValue | -3 | | |
| AvgValue | 14240 | | |
| RecordName | 67094-sh | | |
| RecordNumber | 199 | | |

| Gauge Information | | | | |
|-------------------|--------------|--|--|--|
| Model | ADT680 | | | |
| SN | 21817380014 | | | |
| Range | (0-40000)psi | | | |
| Unit | psi | | | |





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State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

| I. Operator: | EARTHSTONE | OPERATING, LL | C OGRID: | 331165 | Date: _ | 08/01/2025 | |
|---|------------|---------------------|--|--------------------------|-------------------|---------------------------|----|
| II. Type: ⊠ Original If Other, please des | | nt due to 19.15.2 | 27.9.D(6)(a) NMAC 🗆 | 19.15.27.9.D(6)(b) | NMAC 🗆 | Other. | - |
| * * | _ | | h new or recompleted was central delivery point. | ell or set of wells p | roposed to | to be drilled or proposed | to |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticip Gas Mo | Produced Water | r |
| See Attached | | | | | | | |
| _ | | | | | | | |
| | | | | | | | |
| | | | | | 1 | | |

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

[See 19.15.27.9(D)(1) NMAC]

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|--------------|-----|-----------|--------------------|---------------------------------|---------------------------|-----------------------------|
| See Attached | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

- VI. Separation Equipment:

 Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational Practices:

 X☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

IV. Central Delivery Point Name: OUTLAND 1-12 CTB

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Departor certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|------|-----|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

X. Natural Gas Gathering System (NGGS):

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in |
|----------|--------|-----------------|-------------------------------------|--|
| | | | | |
| | | | | |

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \square will \square will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality:

Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

$\frac{Section~3-Certifications}{\frac{Effective~May~25,~2021}{}}$

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

□ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

| WELL NAME | API | UL/SECT/T/R | FOOTAGES | ANTICIPATED OIL BBL/D | ANTICIPATED GAS MCF/D | ANTICIPATED WATER BBL/D |
|-------------------------|---------|-----------------|----------------------|-----------------------|-----------------------|-------------------------|
| ESCOPETA STATE 121H | | LOT 2-2-21S-34E | 505' FNL, 1632' FEL | 1500 | 1900 | 3500 |
| OUTLAND STATE UNIT 123H | | LOT 3-1-21S-34E | 401' FNL, 2264' FWL | 1500 | 1900 | 3500 |
| OUTLAND STATE UNIT 124H | | LOT 3-1-21S-34E | 401' FNL, 2297' FWL | 1500 | 1900 | 3500 |
| OUTLAND STATE UNIT 125H | | LOT 2-1-21S-34E | 591' FNL, 1465' FEL | 1500 | 1900 | 3500 |
| OUTLAND STATE UNIT 126H | | LOT 2-1-21S-34E | 565' FNL, 1444' FEL | 1500 | 1900 | 3500 |
| OUTLAND STATE UNIT 130H | | K-2-21S-34E | 2053' FSL, 1704' FWL | 1700 | 2000 | 4000 |
| OUTLAND STATE UNIT 133H | | K-2-21S-34E | 2086' FSL, 1704' FWL | 1700 | 2000 | 4000 |
| OUTLAND STATE UNIT 134H | | LOT 2-2-21S-34E | 528' FNL, 1608' FEL | 1700 | 2000 | 4000 |
| OUTLAND STATE UNIT 135H | | LOT 2-2-21S-34E | 551' FNL, 1585' FEL | 1700 | 2000 | 4000 |
| OUTLAND STATE UNIT 136H | | LOT 3-1-21S-34E | 401' FNL, 2330' FWL | 1700 | 2000 | 4000 |
| OUTLAND STATE UNIT 137H | | LOT 3-1-21S-34E | 401' FNL, 2363' FWL | 1700 | 2000 | 4000 |
| OUTLAND STATE UNIT 138H | | LOT 2-1-21S-34E | 539' FNL, 1424' FEL | 1700 | 2000 | 4000 |
| OUTLAND STATE UNIT 139H | | LOT 2-1-21S-34E | 513' FNL, 1404' FEL | 1700 | 2000 | 4000 |
| | | | | | | |
| WELL NAME | API | SPUD | TD | COMPLETION DATE | FLOW BACK DATE | FIRST PRODUCTION |
| ESCOPETA STATE 121H | PENDING | 11/3/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 123H | PENDING | 9/24/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 124H | PENDING | 9/24/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 125H | PENDING | 9/11/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 126H | PENDING | 9/11/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 130H | PENDING | 11/10/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 133H | PENDING | 11/10/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 134H | PENDING | 11/3/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 135H | PENDING | 11/3/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 136H | PENDING | 9/24/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 137H | PENDING | 9/24/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 138H | PENDING | 9/11/2025 | TBD | TBD | TBD | TBD |
| OUTLAND STATE UNIT 139H | PENDING | 9/11/2025 | TBD | TBD | TBD | TBD |
| | | -, , | | | l | |

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Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

and Gas Act. Signature: Printed Name: JENNIFER ELROD Title: SR. REGULATORY ANALYST E-mail Address: JELROD@NTGLOBAL.COM Date: 08/01/2025 Phone: 940-452-6214 OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) Approved By: Title: Approval Date: Conditions of Approval:

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil

Permian Resources Operating, LLC (372165)

EARTHSTONE OPERATING, LLC (331165)

Natural Gas Management Plan Descriptions

VI. Separation Equipment:

Permian/Earthstone utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

VII. Operational Practices:

Drilling

During Permian's/Earthstone's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

Flowback

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Permian/Earthstone routes gas though a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

Production

Per 19.15.27.8.D, Permian's/Earthstone's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

Performance Standards

Permian/Earthstone utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Permian's/Earthstone's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Permian's/Earthstone's flare stacks, both currently installed and for future installation, are:

- 1) Appropriately sized and designed to ensure proper combustionefficiency
- 2) Equipped with an automatic ignitor or continuous pilot.
- 3) Anchored and located at least 100 feet from the well and storage tanks.

Permian's /Earthstone's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

Permian Resources Operating, LLC (372165)

EARTHSTONE OPERATING, LLC (331165)

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

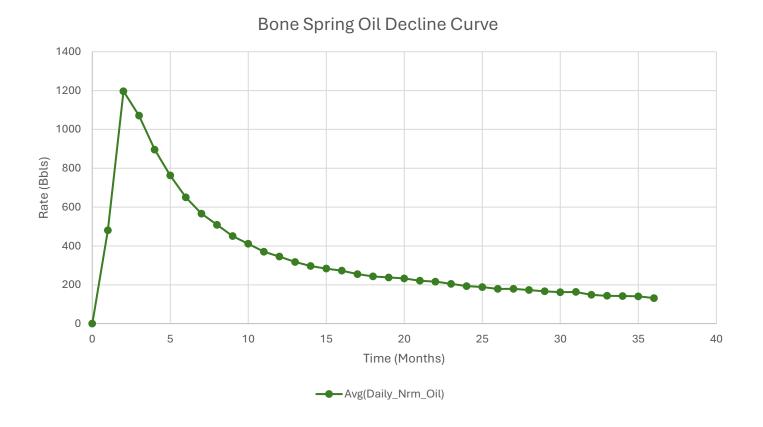
Measurement or estimation

Permian/Earthstone measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

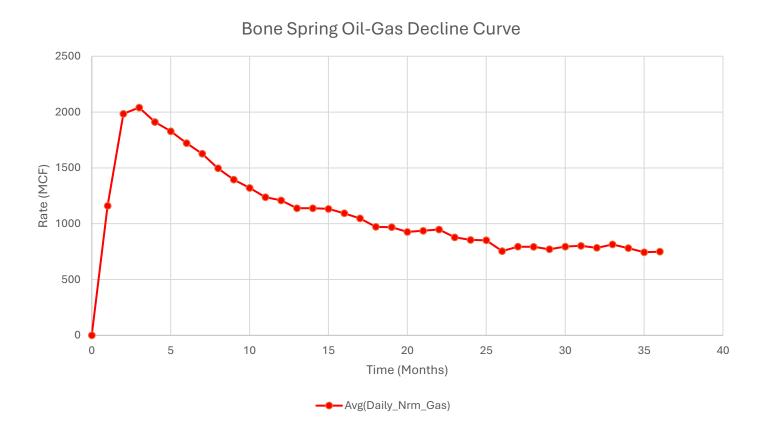
VIII. Best Management Practices:

Permian/Earthstone utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary



- 1. Represented curve is generic based on 3-Years available information for the Bone Spring formation and may not be representative of forecasted production or actual volumes.
- 2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.



- 1. Represented curve is generic based on 3-Years available information for the Bone Spring formation and may not be representative of forecasted production or actual volumes.
- 2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.