

Form 3160-3
(June 2015)

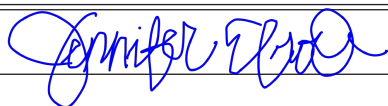
FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | |
|---|---------------------------------------|---|
| 1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 6. If Indian, Allottee or Tribe Name |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 7. If Unit or CA Agreement, Name and No. |
| 2. Name of Operator [331165] | | 8. Lease Name and Well No. [333713] |
| 3a. Address | 3b. Phone No. (include area code) | 9. API Well No. 30-025-50976 |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone | | 10. Field and Pool, or Exploratory [13160/59475] |
| 14. Distance in miles and direction from nearest town or post office* | | 11. Sec., T. R. M. or Blk. and Survey or Area |
| | | 12. County or Parish |
| | | 13. State |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No of acres in lease | 17. Spacing Unit dedicated to this well |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth | 20. BLM/BIA Bond No. in file |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approximate date work will start* | 23. Estimated duration |
| 24. Attachments | | |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

| | | |
|--|----------------------|------|
| 25. Signature  | Name (Printed/Typed) | Date |
| Title | | |
| Approved by (Signature) | Name (Printed/Typed) | Date |
| Title | Office | |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NGMP Rec 01/09/2023



KZ
01/23/2023

SL

(Continued on page 2)

*(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|--|--|---------------------------------|--|
| ¹ API Number 30-025-50976 | | ² Pool Code 13160 | ³ Pool Name CORBIN; BONE SPRING, SOUTH |
| ⁴ Property Code 333713 | ⁵ Property Name BEL-AIR 5-8 FED 1BS COM | | ⁶ Well Number 3H |
| ⁷ OGRID No. 331165 | ⁸ Operator Name EARTHSTONE OPERATING, LLC | | ⁹ Elevation 3724.6 |

¹⁰ Surface Location

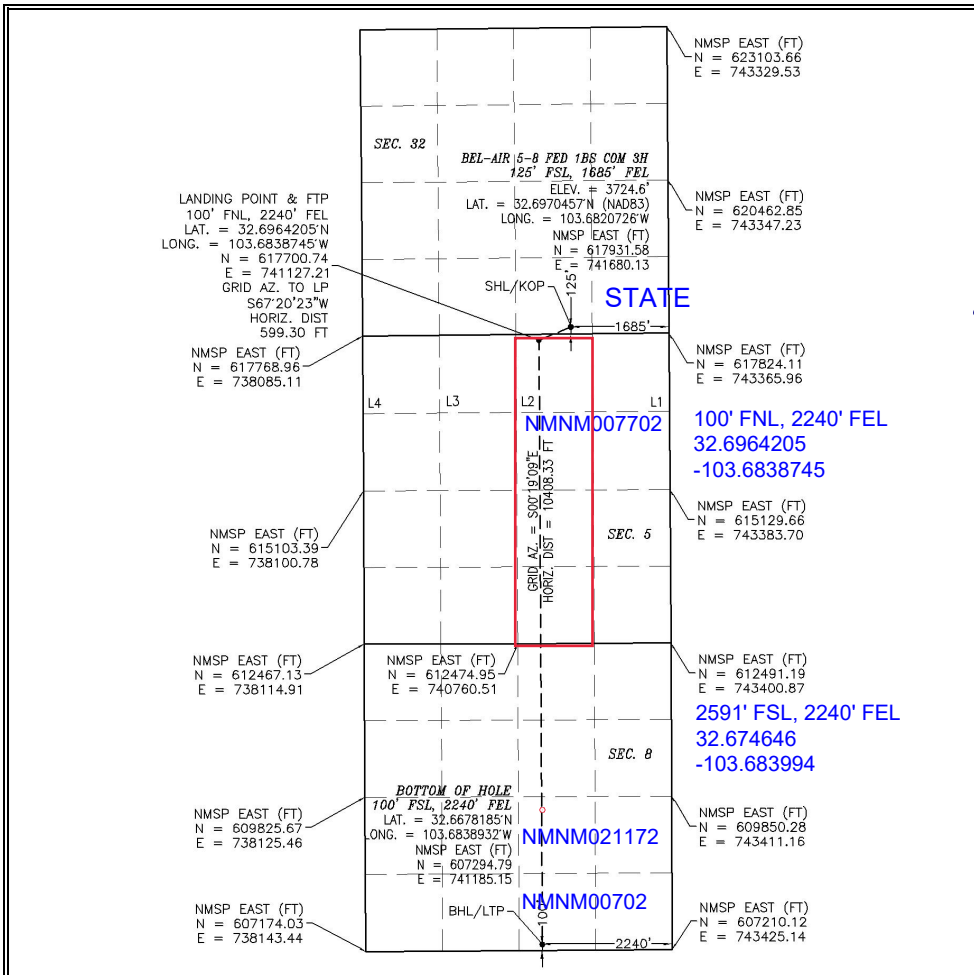
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|------------|
| O | 32 | 18 S | 33 E | | 125 | SOUTH | 1685 | EAST | LEA |

¹¹ Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|------------|
| O | 8 | 19 S | 33 E | | 100 | SOUTH | 2240 | EAST | LEA |

| | | | |
|---|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres 160.00 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|---|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jennifer Elrod 1/21/2022
Signature Date

JENNIFER ELROD
Printed Name

JELROD@EARTHSTONEENERGY.COM
E-mail Address

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 26, 2020
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

Certificate Number: **ELROD JARAMELLO PAS 12797**
PROFESSIONAL SURVEYOR SURVEY NO. 8600

Intent As Drilled

API #

| | | |
|--|--|--------------------------|
| Operator Name: EARTHSTONE OPERATING, LLC | Property Name: BEL-AIR 5-8 FED 1BS COM | Well Number 3H |
|--|--|--------------------------|

Kick Off Point (KOP)

| | | | | | | | | | |
|-------------------------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|---------------------|-------------------------|----------------------|
| UL O | Section 32 | Township 18S | Range 33E | Lot | Feet 125 | From N/S SOUTH | Feet 1685 | From E/W EAST | County LEA |
| Latitude 32.6970457 | | | | | Longitude 103.6820726 | | | | NAD 83 |

First Take Point (FTP)

| | | | | | | | | | |
|-------------------------------|---------------------|------------------------|---------------------|-----------------|---------------------------------|--------------------------|---------------------|-------------------------|----------------------|
| UL O | Section 5 | Township 19S | Range 33E | Lot 2 | Feet 100 | From N/S NORTH | Feet 2240 | From E/W EAST | County LEA |
| Latitude 32.6964205 | | | | | Longitude 103.6838745 | | | | NAD 83 |

Last Take Point (LTP)

| | | | | | | | | | |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|---------------------|-------------------------|----------------------|
| UL O | Section 8 | Township 19S | Range 33E | Lot | Feet 100 | From N/S SOUTH | Feet 2240 | From E/W EAST | County LEA |
| Latitude 32.6678185 | | | | | Longitude 103.6838932 | | | | NAD 83 |

Is this well the defining well for the Horizontal Spacing Unit? NO

Is this well an infill well? YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
PENDING

| | | |
|--|--|--------------------------|
| Operator Name: EARTHSTONE OPERATING, LLC | Property Name: BEL-AIR 5-8 FED 2BS COM | Well Number 7H |
|--|--|--------------------------|

KZ 06/29/2018

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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811 S. First St., Artesia, NM 88210
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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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|--|--|--|--|--|---|
| ¹ API Number 30-025-50976 | | ² Pool Code 59475 | | ³ Pool Name TONTO; BONE SPRING | |
| ⁴ Property Code 333713 | | ⁵ Property Name BEL-AIR 5-8 FED 1BS COM | | | ⁶ Well Number 3H |
| ⁷ OGRID No. 331165 | | ⁸ Operator Name EARTHSTONE OPERATING, LLC | | | ⁹ Elevation 3724.6 |

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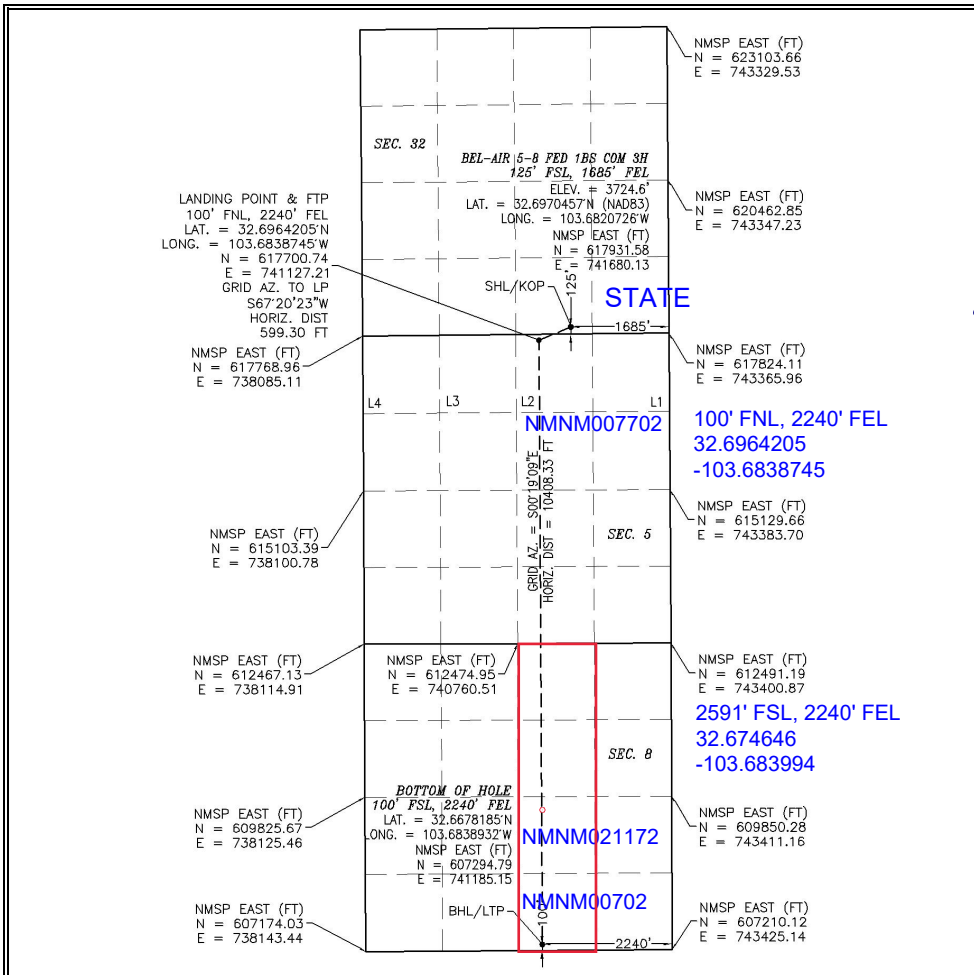
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jennifer Elrod 1/21/2022
Signature Date

JENNIFER ELROD
Printed Name

JELROD@EARTHSTONEENERGY.COM
E-mail Address

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 26, 2020
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

Certificate Number: 12797
JAMES MONTEZ JARAMILLO, P.S. 12797
PROFESSIONAL SURVEYOR SURVEY NO. 8600

Intent As Drilled

API #

| | | |
|--|--|--------------------------|
| Operator Name: EARTHSTONE OPERATING, LLC | Property Name: BEL-AIR 5-8 FED 1BS COM | Well Number 3H |
|--|--|--------------------------|

Kick Off Point (KOP)

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Is this well the defining well for the Horizontal Spacing Unit? NO

Is this well an infill well? YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
PENDING

| | | |
|--|--|--------------------------|
| Operator Name: EARTHSTONE OPERATING, LLC | Property Name: BEL-AIR 5-8 FED 2BS COM | Well Number 7H |
|--|--|--------------------------|

KZ 06/29/2018

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, LLC **OGRID:** 331165 **Date:** 07 / 27 /2022

II. Type: Original Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other.

If Other, please describe: _____

III. Well(s): 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.

| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|----------------------------|--------------|--------------|------------------|-----------------------|-----------------------|----------------------------------|
| Bel-Air 5-8 Fed 1BS Com 3H | 30-025-50976 | O-32-18S-33E | 125 FSL,1655 FEL | 1250 | 1650 | 6000 |
| Bel-Air 5-8 Fed 1BS Com 4H | | O-32-18S-33E | 125 FNL,1685 FEL | 1250 | 1650 | 6000 |

IV. Central Delivery Point Name: BEL-AIR 5-8 FED COM EAST PAD [See 19.15.27.9(D)(1) NMAC]

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.

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|----------------------------|--------------|------------|-----------------|------------------------------|------------------------|-----------------------|
| Bel-Air 5-8 Fed 2BS Com 3H | 30-025-50976 | 09/01/2022 | 09/28/2022 | 12/01/2022 | 12/20/2022 | 12/25/2022 |
| Bel-Air 5-8 Fed 2BS Com 4H | | 10/01/2022 | 10/28/2022 | 12/01/2022 | 12/20/2022 | 12/25/2022 |

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: 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.

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.

Operator 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. 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 will 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 does 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.

Section 3 - Certifications

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 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.

Page 8

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 and Gas Act.

| |
|--|
| Signature: <i>Jennifer Elrod</i> |
| Printed Name: JENNIFER ELROD |
| Title: SR. REGULATORY ANALYST |
| E-mail Address: JELROD@EARTHSTONEENERGY.COM |
| Date: 07/27/2022 |
| Phone: (940)452-6214 |
| OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) |
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |

ESTE Natural Gas Management Plan Items VI-VIII

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid – Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering are selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All-natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All tanks will have sight glasses installed, but no electronic gauging equipment.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.
- There will be no gas re-injection for underground storage, temporary storage, or for enhanced oil recovery; however, gas injection will be used for gas lift applications in which the gas would be circulated through a closed loop system.
- If H₂S is encountered, gas will be treated to pipeline spec to avoid shut-in's and/or flaring.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.

Page 5

- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 50MCFPD.

Measurement & Estimation

- All volume that is flared or vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses will be installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, ESTE will use best management practices to vent as minimally as possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

Operator Name: EARTHSTONE OPERATING LLC

Well Name: BEL-AIR 5-8 FED 1BS COM

Well Number: 3H

5M_Choke_Manifold_Diagram_20220826124223.pdf

BOP Diagram Attachment:

5M_BOP_Diagram_2_20220826124236.pdf

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|--------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------|--------|--------------------|-------------|----------|---------------|----------|--------------|---------|
| 1 | SURFACE | 14.75 | 10.75 | NEW | API | N | 0 | 1600 | 0 | 1600 | 3725 | 2125 | 1600 | J-55 | 45.5 | BUTT | 2.85 | 4.89 | DRY | 10.93 | DRY | 9.82 |
| 2 | INTERMEDIATE | 9.875 | 8.625 | NEW | API | N | 0 | 5400 | 0 | 5400 | 3728 | -1675 | 5400 | L-80 | 32 | OTHER - HC MO-FXL | 2.86 | 2.06 | DRY | 3.02 | DRY | 4.36 |
| 3 | PRODUCTION | 7.875 | 5.5 | NEW | API | N | 0 | 19674 | 0 | 9090 | 3728 | -5365 | 19674 | P-110 | 20 | OTHER - RY VARA AC | 2.96 | 2.81 | DRY | 3.53 | DRY | 3.53 |

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Calculator__3_String_Bel_Air_5_8_Fed_Com_1BS_3H_20220826124948.pdf

Operator Name: EARTHSTONE OPERATING LLC

Well Name: BEL-AIR 5-8 FED 1BS COM

Well Number: 3H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Calculator___3_String_Bel_Air_5_8_Fed_Com_1BS_3H_20220826124816.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Calculator___3_String_Bel_Air_5_8_Fed_Com_1BS_3H_20220826124513.pdf

Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|--------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| SURFACE | Lead | | 0 | 1100 | 540 | 1.86 | 12 | 1004 | 65 | Class C | Sodium Metasilicate, Defoamer, KCL |
| SURFACE | Tail | | 1100 | 1600 | 310 | 1.35 | 14.8 | 698 | 100 | Class C | none |
| INTERMEDIATE | Lead | | 0 | 4900 | 240 | 3.6 | 10.3 | 864 | 50 | C | Sodium Metasilicate, Defoamer, KCL, Kol-Seal, Cellophane Flakes, ROF SealCheck |
| INTERMEDIATE | Tail | | 4900 | 5400 | 100 | 1.35 | 14.8 | 135 | 35 | C | Fluid Loss, Dispercent, Retarder |

Operator Name: EARTHSTONE OPERATING LLC

Well Name: BEL-AIR 5-8 FED 1BS COM

Well Number: 3H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| PRODUCTION | Lead | | 4900 | 7877 | 230 | 2.93 | 11.3 | 6674 | 25 | Class H | Bentonite, Compressive Strength Enhancer, Silica Fume Alternative, Fluid Loss, Defoamer, Sodium Metasilicate, Retarder |
| PRODUCTION | Tail | | 7877 | 1967 4 | 1950 | 1.2 | 14.5 | 2340 | 25 | Class H | Fluid Loss, Suspension Agent, Retarder, Defoamer, Dispersant |

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: Pason PVT system will be in place throughout the well as well as visual checks

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|----------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|---------------------------------|
| 0 | 1600 | SPUD MUD | 8.5 | 9.2 | | | | | | | 38-40 VIS 8-10 PV 8-10 YP |
| 5400 | 1967 4 | OIL-BASED MUD | 9.3 | 9.8 | | | | | | | 15-20 PV 8-12 YP |
| 1600 | 5400 | SALT SATURATED | 9.8 | 10.2 | | | | | | | 28-32 VIS 1-3 PV 1-3 YP |

Operator Name: EARTHSTONE OPERATING LLC

Well Name: BEL-AIR 5-8 FED 1BS COM

Well Number: 3H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None

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

CEMENT BOND LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,MEASUREMENT WHILE DRILLING,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4829

Anticipated Surface Pressure: 2829

Anticipated Bottom Hole Temperature(F): 163

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

ESTE_Lea_County_H2S_plan_20220727155251.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Bel_Air_5_8_Fed_Com_3H__Plan_1_07_21_22_AC_Report_20220826125809.pdf

Bel_Air_5_8_Fed_Com_3H__Plan_1_07_21_22_20220826125809.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Bel_Air_5_8_Fed_Com_1BS_3H__WBD_Update_20220826125827.pdf

CDS_FXL_8_625_32_BMP_L80EHC_Feb04_2022_20220826125923.pdf

5.50_20__VAHC_P110_RY_VARN_AC__6.300_Cplg__20220826125924.pdf

Other Variance attachment:

Cactus_Speed_Head_Installation_Procedure_20210329145801.pdf

Cactus_Speed_Head_Pressure_Testing_Statement_20210329145801.pdf

Choke_Hose_M55_1_07102017_145204_66_1225_04_14_2014__20210329145801.pdf

Choke_Hose_M55_2_07102017_145421_66_1042_05_03_2013__20210329145801.pdf

CACTUS_WELLHEAD_3STRING_20220826125905.pdf

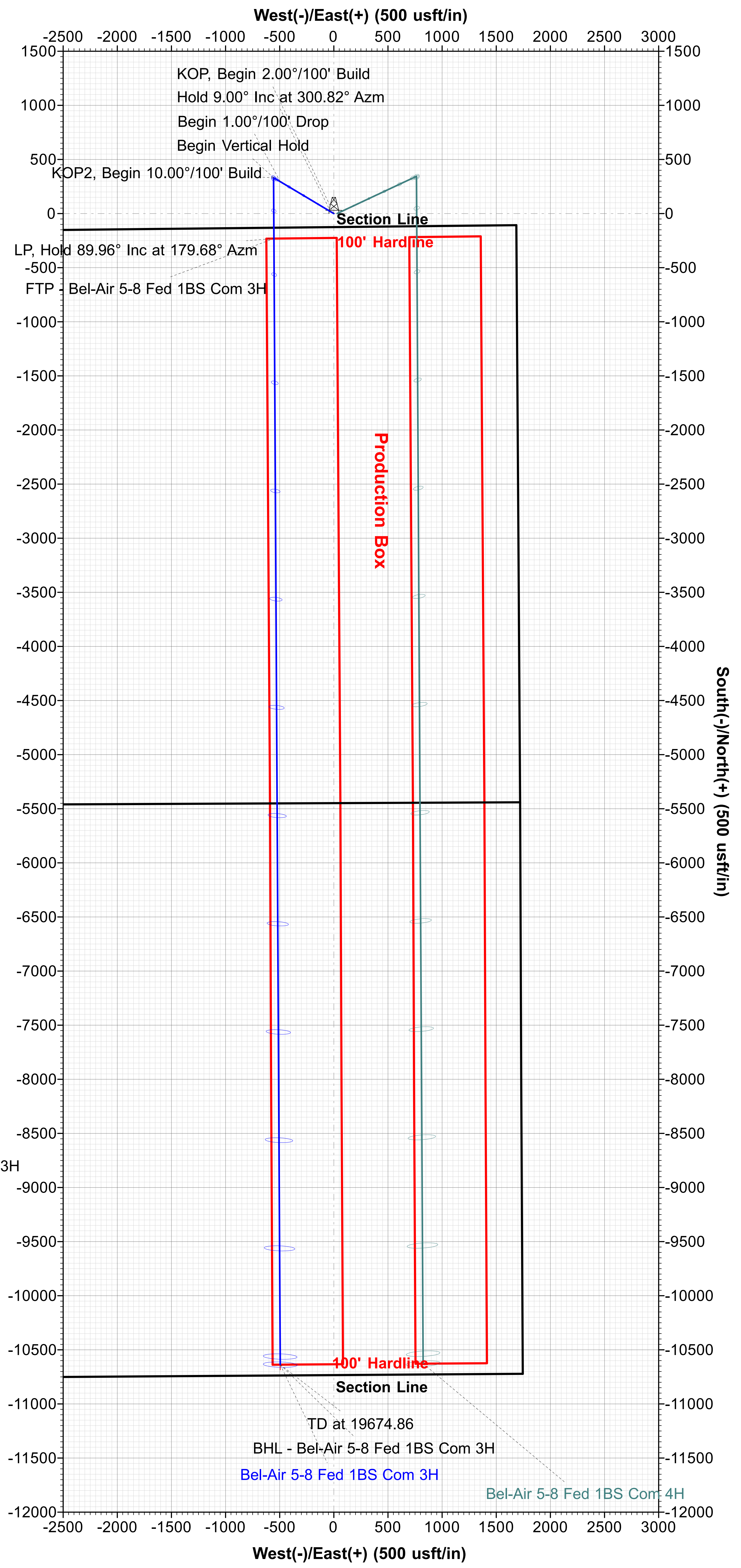
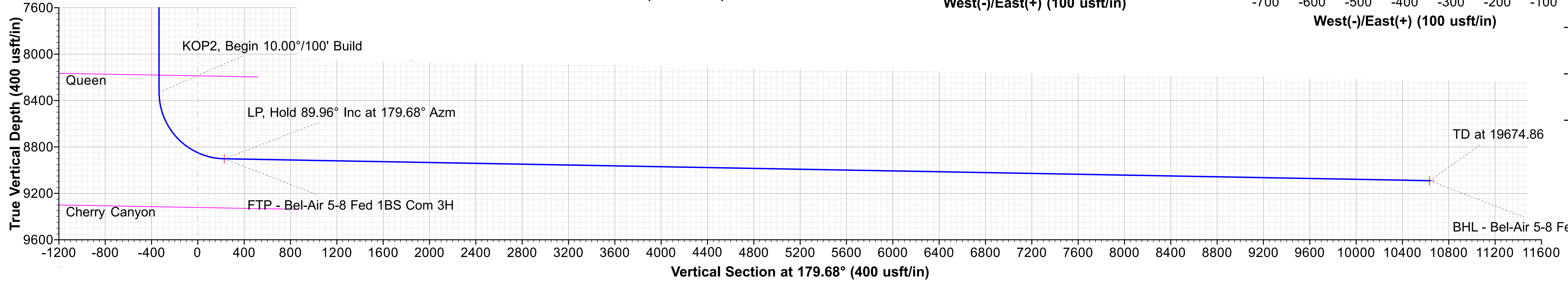
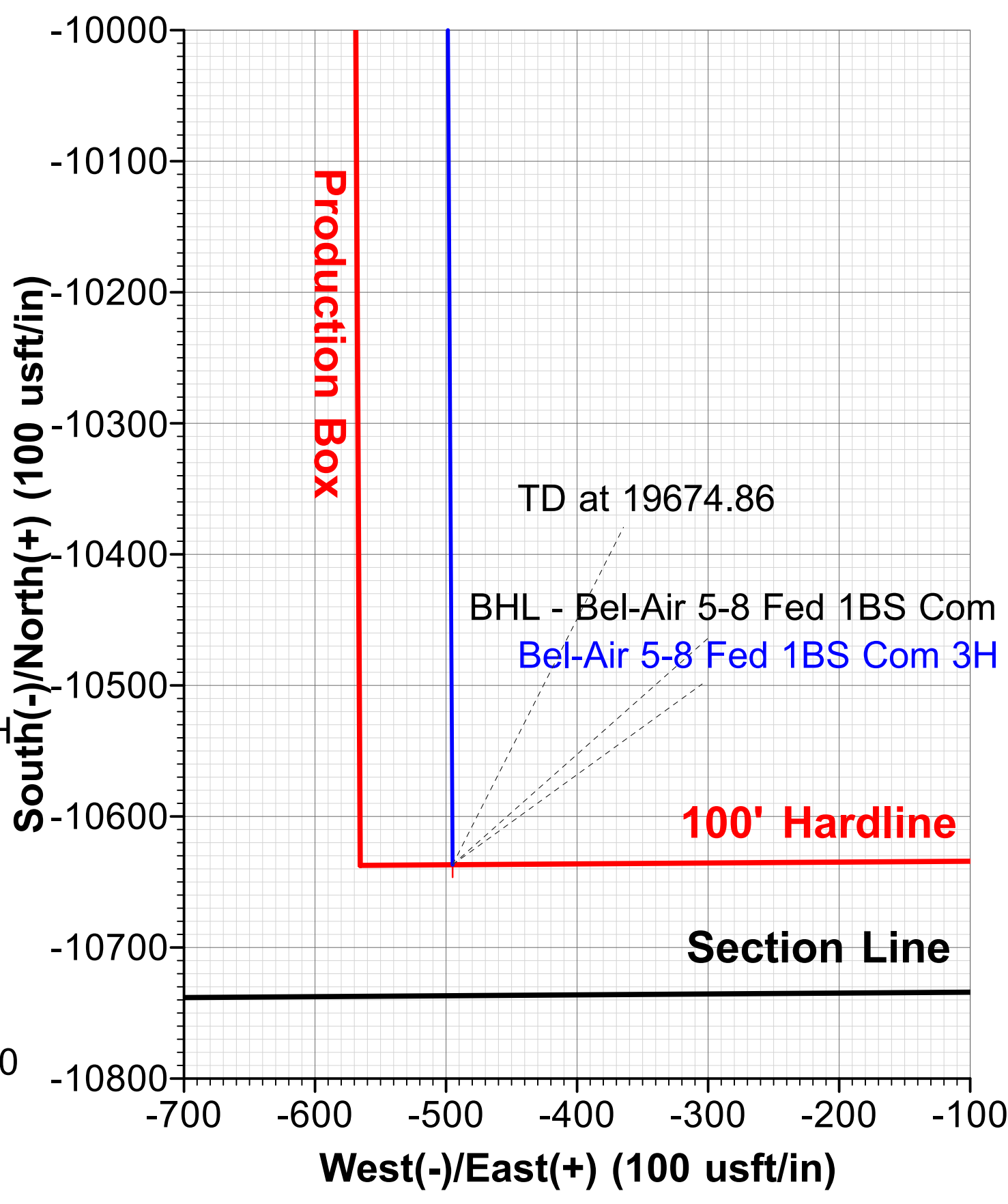
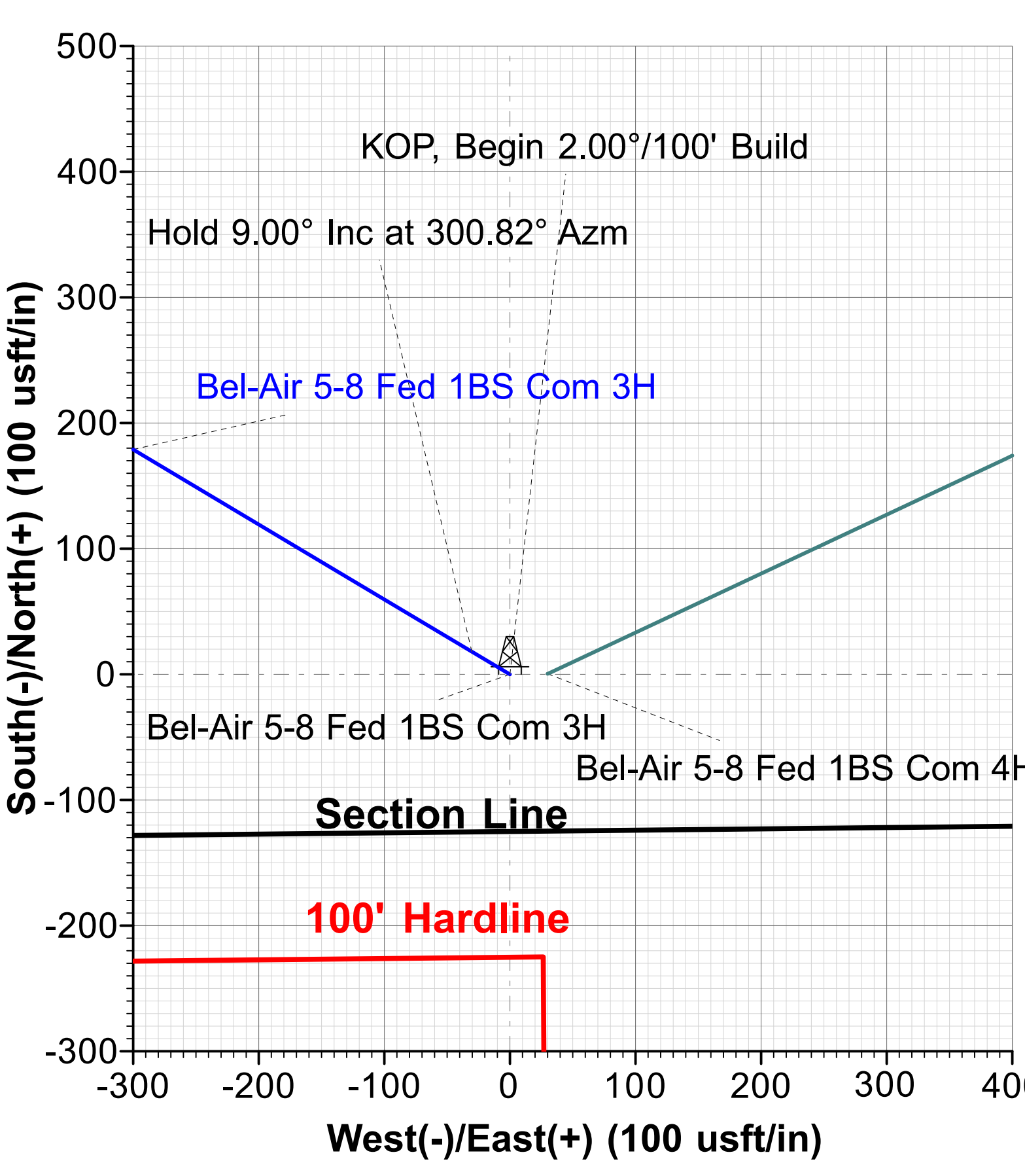
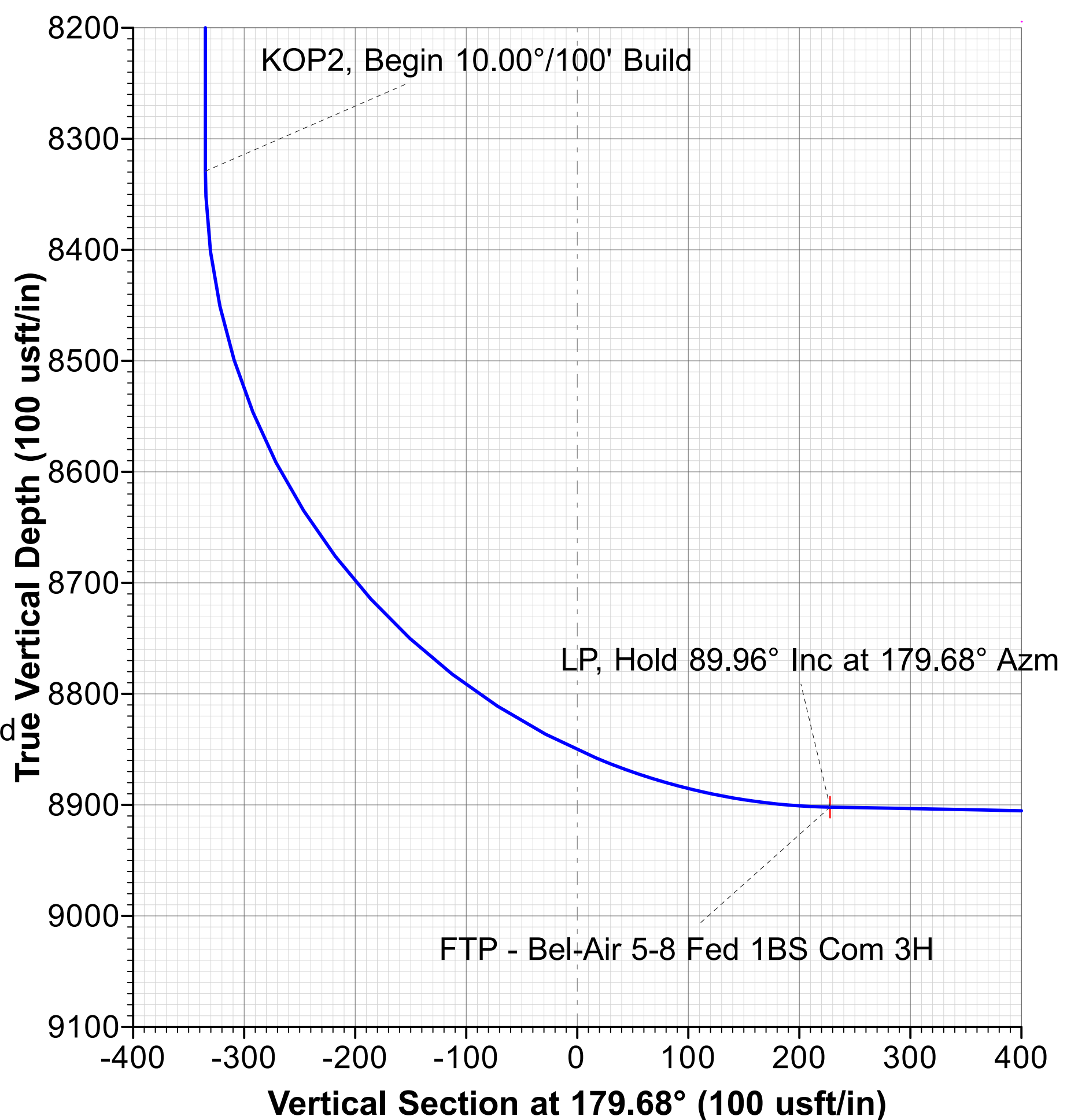
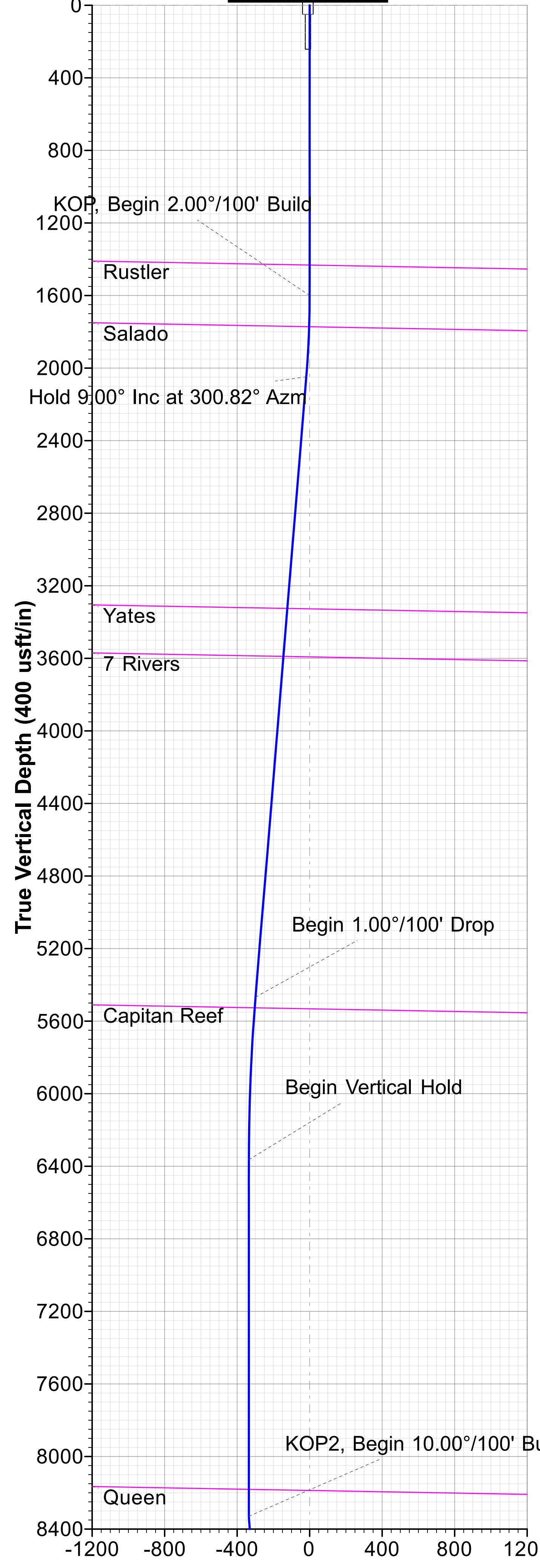
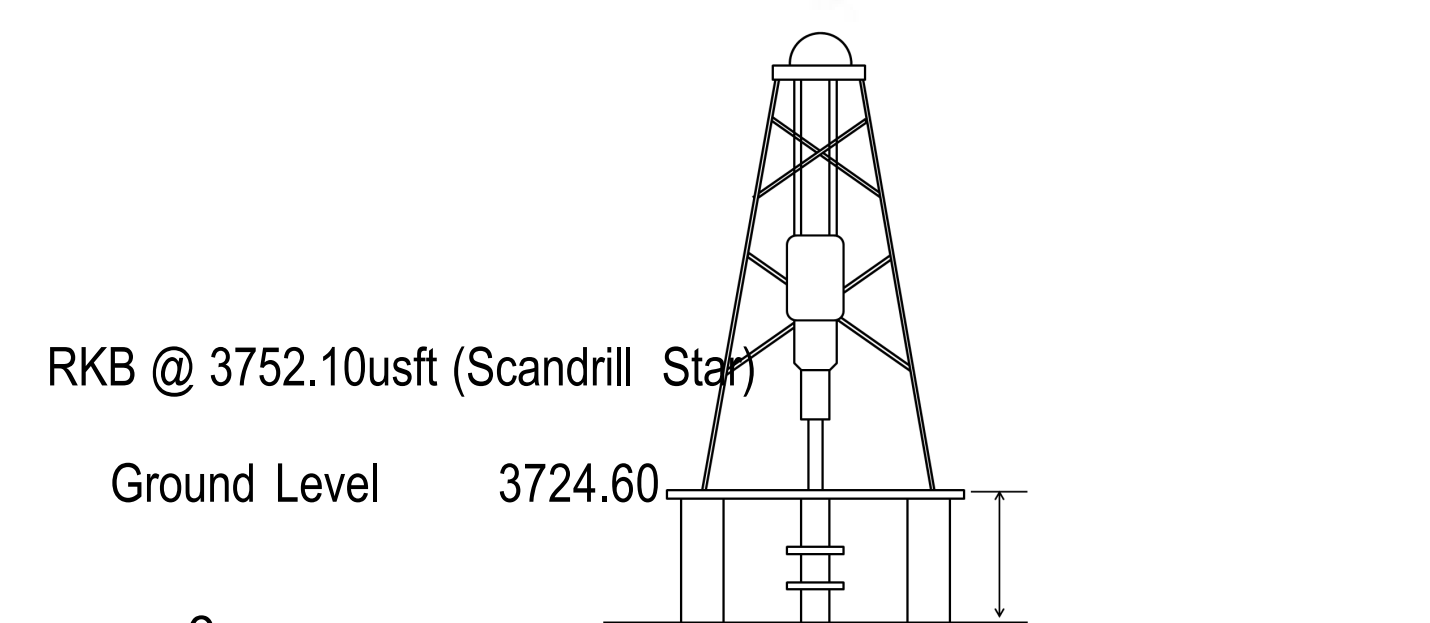
| WELL DETAILS | | | | | | |
|--------------|-------|-----------|--------------|-----------|---------------------|----------------------|
| +N/-S | +E/-W | Northing | Ground Level | Easting | Latitude | Longitude |
| 0.00 | 0.00 | 617931.58 | 3724.60 | 741680.13 | 32° 41' 49.364405 N | 103° 40' 55.461461 W |

| SECTION DETAILS | | | | | | | | | | | |
|-----------------|----------|-------|--------|---------|-----------|---------|-------|---------|----------|--------|--|
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target | Annotation |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | | |
| 2 | 1600.00 | 0.00 | 0.00 | 1600.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | | KOP, Begin 2.00°/100' Build |
| 3 | 2050.03 | 9.00 | 300.82 | 2048.18 | 18.07 | -30.29 | 2.00 | 300.820 | -18.24 | | Hold 9.00° Inc at 300.82° Azm |
| 4 | 5512.36 | 9.00 | 300.82 | 5467.88 | 295.59 | -495.47 | 0.00 | 0.000 | -298.35 | | Begin 1.00°/100' Drop |
| 5 | 6412.42 | 0.00 | 0.00 | 6364.24 | 331.73 | -556.05 | 1.00 | 180.000 | -334.83 | | Begin Vertical Hold |
| 6 | 8377.41 | 0.00 | 0.00 | 8329.24 | 331.73 | -556.05 | 0.00 | 0.000 | -334.83 | | KOP2, Begin 10.00°/100' Build |
| 7 | 9267.04 | 88.96 | 179.68 | 8902.10 | -230.84 | -552.92 | 10.00 | 179.681 | 227.75 | | LP, Hold 89.96° Inc at 179.68° Azm |
| 8 | 19674.86 | 88.96 | 179.68 | 9090.60 | -10636.79 | -494.98 | 0.00 | 0.000 | 10633.86 | | BHL - Bel-Air 5-8 Fed 1BS Com 3H TD at 19674.86 |

| DESIGN TARGET DETAILS | | | | | | | |
|----------------------------------|---------|-----------|---------|-----------|-----------|---------------------|---------------------|
| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| FTP - Bel-Air 5-8 Fed 1BS Com 3H | 8902.10 | -230.84 | -552.92 | 617700.74 | 741127.21 | 32° 41' 47.113865 N | 103° 41' 1.948269 W |
| BHL - Bel-Air 5-8 Fed 1BS Com 3H | 9090.60 | -10636.79 | -494.98 | 607294.79 | 741185.15 | 32° 40' 4.146535 N | 103° 41' 2.015592 W |

Map System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone Name: New Mexico Eastern Zone
 Local Origin: Well Bel-Air 5-8 Fed 1BS Com 3H, Grid North
 Latitude: 32° 41' 49.364405 N
 Longitude: 103° 40' 55.461461 W
 Grid East: 741680.13
 Grid North: 617931.58
 Scale Factor: 1.000
 Geomagnetic Model: MVHD
 Sample Date: 20-Sep-22
 Magnetic Declination: 6.384°
 Dip Angle from Horizontal: 60.556°
 Magnetic Field Strength: 47848.98105730nT
 To convert a Magnetic Direction to a Grid Direction, Add 6.032°
 To convert a Magnetic Direction to a True Direction, Add 6.384° East
 To convert a True Direction to a Grid Direction, Subtract 0.352°

| FORMATION TOP DETAILS | | |
|-----------------------|---------|--------------|
| TVDPath | MDPath | Formation |
| 1432.10 | 1432.10 | Rustler |
| 1772.05 | 1772.16 | Salado |
| 3324.89 | 3342.65 | Yates |
| 3589.50 | 3610.56 | 7 Rivers |
| 5526.64 | 5571.81 | Capitan Reef |
| 8181.07 | 8229.24 | Queen |





Earthstone Operating, LLC

Lea County, NM (Nad 83 NME)

Bel-Air 5-8 Fed

Bel-Air 5-8 Fed 1BS Com 3H

OH

Plan: Plan 1 07-21-22

Standard Planning Report

21 July, 2022





Phoenix Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| Database: | USA Compass | Local Co-ordinate Reference: | Well Bel-Air 5-8 Fed 1BS Com 3H |
| Company: | Earthstone Operating, LLC | TVD Reference: | RKB @ 3752.10usft (Scandriil Star) |
| Project: | Lea County, NM (Nad 83 NME) | MD Reference: | RKB @ 3752.10usft (Scandriil Star) |
| Site: | Bel-Air 5-8 Fed | North Reference: | Grid |
| Well: | Bel-Air 5-8 Fed 1BS Com 3H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 1 07-21-22 | | |

| | | | |
|--------------------|-----------------------------|----------------------|----------------|
| Project | Lea County, NM (Nad 83 NME) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | New Mexico Eastern Zone | | |

| | | | | | |
|------------------------------|-----------------|---------------------|-----------------|--------------------------|----------------------|
| Site | Bel-Air 5-8 Fed | | | | |
| Site Position: | | Northing: | 617,931.58 usft | Latitude: | 32° 41' 49.364405 N |
| From: | Map | Easting: | 741,680.13 usft | Longitude: | 103° 40' 55.461462 W |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.352 ° |

| | | | | | | |
|-----------------------------|----------------------------|-----------|----------------------------|-----------------|----------------------|----------------------|
| Well | Bel-Air 5-8 Fed 1BS Com 3H | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 617,931.58 usft | Latitude: | 32° 41' 49.364405 N |
| | +E/-W | 0.00 usft | Easting: | 741,680.13 usft | Longitude: | 103° 40' 55.461462 W |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | | Ground Level: | 3,724.60 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | MVHD | 9/20/2022 | 6.384 | 60.556 | 47,848.98105730 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Plan 1 07-21-22 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 179.68 |

| | | | | |
|---------------------------------|------------------------|--------------------------|----------------------|-----------------------------|
| Plan Survey Tool Program | Date | 7/21/2022 | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.00 | 19,674.79 | Plan 1 07-21-22 (OH) | MWD+HRGM OWSG MWD + HRGM |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-----------------------|
| 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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 2,050.03 | 9.00 | 300.82 | 2,048.18 | 18.07 | -30.29 | 2.00 | 2.00 | 0.00 | 300.820 | |
| 5,512.36 | 9.00 | 300.82 | 5,467.88 | 295.59 | -495.47 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 6,412.42 | 0.00 | 0.00 | 6,364.24 | 331.73 | -556.05 | 1.00 | -1.00 | 0.00 | 180.000 | |
| 8,377.41 | 0.00 | 0.00 | 8,329.24 | 331.73 | -556.05 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 9,267.04 | 88.96 | 179.68 | 8,902.10 | -230.84 | -552.92 | 10.00 | 10.00 | 0.00 | 179.681 | FTP - Bel-Air 5-8 Fed |
| 19,674.86 | 88.96 | 179.68 | 9,090.60 | -10,636.79 | -494.98 | 0.00 | 0.00 | 0.00 | 0.000 | BHL - Bel-Air 5-8 Fed |



Phoenix Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| Database: | USA Compass | Local Co-ordinate Reference: | Well Bel-Air 5-8 Fed 1BS Com 3H |
| Company: | Earthstone Operating, LLC | TVD Reference: | RKB @ 3752.10usft (Scandrill Star) |
| Project: | Lea County, NM (Nad 83 NME) | MD Reference: | RKB @ 3752.10usft (Scandrill Star) |
| Site: | Bel-Air 5-8 Fed | North Reference: | Grid |
| Well: | Bel-Air 5-8 Fed 1BS Com 3H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 1 07-21-22 | | |

| Planned Survey | | | | | | | | | |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,432.10 | 0.00 | 0.00 | 1,432.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Rustler | | | | | | | | | |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| KOP, Begin 2.00°/100' Build | | | | | | | | | |
| 1,700.00 | 2.00 | 300.82 | 1,699.98 | 0.89 | -1.50 | -0.90 | 2.00 | 2.00 | 0.00 |
| 1,772.16 | 3.44 | 300.82 | 1,772.05 | 2.65 | -4.44 | -2.67 | 2.00 | 2.00 | 0.00 |
| Salado | | | | | | | | | |
| 1,800.00 | 4.00 | 300.82 | 1,799.84 | 3.58 | -5.99 | -3.61 | 2.00 | 2.00 | 0.00 |
| 1,900.00 | 6.00 | 300.82 | 1,899.45 | 8.04 | -13.48 | -8.12 | 2.00 | 2.00 | 0.00 |
| 2,000.00 | 8.00 | 300.82 | 1,998.70 | 14.28 | -23.94 | -14.42 | 2.00 | 2.00 | 0.00 |
| 2,050.03 | 9.00 | 300.82 | 2,048.18 | 18.07 | -30.29 | -18.24 | 2.00 | 2.00 | 0.00 |
| Hold 9.00° Inc at 300.82° Azm | | | | | | | | | |
| 2,100.00 | 9.00 | 300.82 | 2,097.54 | 22.08 | -37.01 | -22.28 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 9.00 | 300.82 | 2,196.30 | 30.09 | -50.44 | -30.37 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 9.00 | 300.82 | 2,295.07 | 38.11 | -63.88 | -38.46 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 9.00 | 300.82 | 2,393.84 | 46.12 | -77.31 | -46.55 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 9.00 | 300.82 | 2,492.61 | 54.14 | -90.75 | -54.64 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 9.00 | 300.82 | 2,591.38 | 62.15 | -104.18 | -62.74 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 9.00 | 300.82 | 2,690.15 | 70.17 | -117.62 | -70.83 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 9.00 | 300.82 | 2,788.92 | 78.18 | -131.05 | -78.92 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 9.00 | 300.82 | 2,887.69 | 86.20 | -144.49 | -87.01 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 9.00 | 300.82 | 2,986.45 | 94.22 | -157.92 | -95.10 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 9.00 | 300.82 | 3,085.22 | 102.23 | -171.36 | -103.19 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 9.00 | 300.82 | 3,183.99 | 110.25 | -184.79 | -111.28 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 9.00 | 300.82 | 3,282.76 | 118.26 | -198.23 | -119.37 | 0.00 | 0.00 | 0.00 |
| 3,342.65 | 9.00 | 300.82 | 3,324.89 | 121.68 | -203.96 | -122.82 | 0.00 | 0.00 | 0.00 |
| Yates | | | | | | | | | |
| 3,400.00 | 9.00 | 300.82 | 3,381.53 | 126.28 | -211.67 | -127.46 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 9.00 | 300.82 | 3,480.30 | 134.29 | -225.10 | -135.55 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 9.00 | 300.82 | 3,579.07 | 142.31 | -238.54 | -143.64 | 0.00 | 0.00 | 0.00 |
| 3,610.56 | 9.00 | 300.82 | 3,589.50 | 143.15 | -239.95 | -144.49 | 0.00 | 0.00 | 0.00 |
| 7 Rivers | | | | | | | | | |
| 3,700.00 | 9.00 | 300.82 | 3,677.83 | 150.32 | -251.97 | -151.73 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 9.00 | 300.82 | 3,776.60 | 158.34 | -265.41 | -159.82 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 9.00 | 300.82 | 3,875.37 | 166.35 | -278.84 | -167.91 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 9.00 | 300.82 | 3,974.14 | 174.37 | -292.28 | -176.00 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 9.00 | 300.82 | 4,072.91 | 182.38 | -305.71 | -184.09 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 9.00 | 300.82 | 4,171.68 | 190.40 | -319.15 | -192.18 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 9.00 | 300.82 | 4,270.45 | 198.41 | -332.58 | -200.27 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 9.00 | 300.82 | 4,369.22 | 206.43 | -346.02 | -208.36 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 9.00 | 300.82 | 4,467.98 | 214.44 | -359.45 | -216.45 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 9.00 | 300.82 | 4,566.75 | 222.46 | -372.89 | -224.54 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 9.00 | 300.82 | 4,665.52 | 230.47 | -386.32 | -232.63 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 9.00 | 300.82 | 4,764.29 | 238.49 | -399.76 | -240.72 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 9.00 | 300.82 | 4,863.06 | 246.50 | -413.19 | -248.81 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 9.00 | 300.82 | 4,961.83 | 254.52 | -426.63 | -256.90 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 9.00 | 300.82 | 5,060.60 | 262.54 | -440.06 | -264.99 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 9.00 | 300.82 | 5,159.37 | 270.55 | -453.50 | -273.08 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 9.00 | 300.82 | 5,258.13 | 278.57 | -466.93 | -281.17 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 9.00 | 300.82 | 5,356.90 | 286.58 | -480.37 | -289.26 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 9.00 | 300.82 | 5,455.67 | 294.60 | -493.80 | -297.35 | 0.00 | 0.00 | 0.00 |
| 5,512.36 | 9.00 | 300.82 | 5,467.88 | 295.59 | -495.47 | -298.35 | 0.00 | 0.00 | 0.00 |



Phoenix Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| Database: | USA Compass | Local Co-ordinate Reference: | Well Bel-Air 5-8 Fed 1BS Com 3H |
| Company: | Earthstone Operating, LLC | TVD Reference: | RKB @ 3752.10usft (Scandriil Star) |
| Project: | Lea County, NM (Nad 83 NME) | MD Reference: | RKB @ 3752.10usft (Scandriil Star) |
| Site: | Bel-Air 5-8 Fed | North Reference: | Grid |
| Well: | Bel-Air 5-8 Fed 1BS Com 3H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 1 07-21-22 | | |

| Planned Survey | | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| Begin 1.00°/100' Drop | | | | | | | | | | |
| 5,571.81 | 8.41 | 300.82 | 5,526.64 | 300.20 | -503.19 | -303.00 | 1.00 | -1.00 | 0.00 | |
| Capitan Reef | | | | | | | | | | |
| 5,600.00 | 8.12 | 300.82 | 5,554.54 | 302.27 | -506.67 | -305.10 | 1.00 | -1.00 | 0.00 | |
| 5,700.00 | 7.12 | 300.82 | 5,653.66 | 309.07 | -518.06 | -311.96 | 1.00 | -1.00 | 0.00 | |
| 5,800.00 | 6.12 | 300.82 | 5,752.99 | 314.98 | -527.97 | -317.92 | 1.00 | -1.00 | 0.00 | |
| 5,900.00 | 5.12 | 300.82 | 5,852.50 | 320.00 | -536.39 | -322.99 | 1.00 | -1.00 | 0.00 | |
| 6,000.00 | 4.12 | 300.82 | 5,952.18 | 324.13 | -543.31 | -327.16 | 1.00 | -1.00 | 0.00 | |
| 6,100.00 | 3.12 | 300.82 | 6,051.98 | 327.37 | -548.74 | -330.43 | 1.00 | -1.00 | 0.00 | |
| 6,200.00 | 2.12 | 300.82 | 6,151.87 | 329.71 | -552.67 | -332.80 | 1.00 | -1.00 | 0.00 | |
| 6,300.00 | 1.12 | 300.82 | 6,251.83 | 331.17 | -555.11 | -334.26 | 1.00 | -1.00 | 0.00 | |
| 6,400.00 | 0.12 | 300.82 | 6,351.82 | 331.73 | -556.04 | -334.83 | 1.00 | -1.00 | 0.00 | |
| 6,412.42 | 0.00 | 0.00 | 6,364.24 | 331.73 | -556.05 | -334.83 | 1.00 | -1.00 | 0.00 | |
| Begin Vertical Hold | | | | | | | | | | |
| 8,229.24 | 0.00 | 0.00 | 8,181.07 | 331.73 | -556.05 | -334.83 | 0.00 | 0.00 | 0.00 | |
| Queen | | | | | | | | | | |
| 8,377.41 | 0.00 | 0.00 | 8,329.24 | 331.73 | -556.05 | -334.83 | 0.00 | 0.00 | 0.00 | |
| KOP2, Begin 10.00°/100' Build | | | | | | | | | | |
| 8,400.00 | 2.26 | 179.68 | 8,351.82 | 331.29 | -556.05 | -334.39 | 10.00 | 10.00 | 0.00 | |
| 8,500.00 | 12.26 | 179.68 | 8,450.89 | 318.67 | -555.98 | -321.77 | 10.00 | 10.00 | 0.00 | |
| 8,600.00 | 22.26 | 179.68 | 8,546.26 | 289.04 | -555.81 | -292.14 | 10.00 | 10.00 | 0.00 | |
| 8,700.00 | 32.26 | 179.68 | 8,635.05 | 243.30 | -555.56 | -246.40 | 10.00 | 10.00 | 0.00 | |
| 8,800.00 | 42.26 | 179.68 | 8,714.54 | 182.83 | -555.22 | -185.93 | 10.00 | 10.00 | 0.00 | |
| 8,900.00 | 52.26 | 179.68 | 8,782.32 | 109.48 | -554.81 | -112.58 | 10.00 | 10.00 | 0.00 | |
| 9,000.00 | 62.26 | 179.68 | 8,836.34 | 25.48 | -554.35 | -28.58 | 10.00 | 10.00 | 0.00 | |
| 9,100.00 | 72.26 | 179.68 | 8,874.94 | -66.63 | -553.83 | 63.53 | 10.00 | 10.00 | 0.00 | |
| 9,200.00 | 82.26 | 179.68 | 8,896.97 | -164.04 | -553.29 | 160.95 | 10.00 | 10.00 | 0.00 | |
| 9,267.04 | 88.96 | 179.68 | 8,902.10 | -230.84 | -552.92 | 227.75 | 10.00 | 10.00 | 0.00 | |
| LP, Hold 89.96° Inc at 179.68° Azm | | | | | | | | | | |
| 9,300.00 | 88.96 | 179.68 | 8,902.70 | -263.80 | -552.74 | 260.71 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 88.96 | 179.68 | 8,904.51 | -363.78 | -552.18 | 360.69 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 88.96 | 179.68 | 8,906.32 | -463.76 | -551.62 | 460.67 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 88.96 | 179.68 | 8,908.13 | -563.74 | -551.07 | 560.66 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 88.96 | 179.68 | 8,909.94 | -663.73 | -550.51 | 660.64 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 88.96 | 179.68 | 8,911.75 | -763.71 | -549.95 | 760.62 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 88.96 | 179.68 | 8,913.56 | -863.69 | -549.40 | 860.61 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 88.96 | 179.68 | 8,915.38 | -963.67 | -548.84 | 960.59 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 88.96 | 179.68 | 8,917.19 | -1,063.65 | -548.28 | 1,060.57 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 88.96 | 179.68 | 8,919.00 | -1,163.64 | -547.73 | 1,160.56 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 88.96 | 179.68 | 8,920.81 | -1,263.62 | -547.17 | 1,260.54 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 88.96 | 179.68 | 8,922.62 | -1,363.60 | -546.61 | 1,360.53 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 88.96 | 179.68 | 8,924.43 | -1,463.58 | -546.06 | 1,460.51 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 88.96 | 179.68 | 8,926.24 | -1,563.56 | -545.50 | 1,560.49 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 88.96 | 179.68 | 8,928.05 | -1,663.55 | -544.94 | 1,660.48 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 88.96 | 179.68 | 8,929.86 | -1,763.53 | -544.39 | 1,760.46 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 88.96 | 179.68 | 8,931.68 | -1,863.51 | -543.83 | 1,860.44 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 88.96 | 179.68 | 8,933.49 | -1,963.49 | -543.27 | 1,960.43 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 88.96 | 179.68 | 8,935.30 | -2,063.47 | -542.72 | 2,060.41 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 88.96 | 179.68 | 8,937.11 | -2,163.46 | -542.16 | 2,160.39 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 88.96 | 179.68 | 8,938.92 | -2,263.44 | -541.60 | 2,260.38 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 88.96 | 179.68 | 8,940.73 | -2,363.42 | -541.05 | 2,360.36 | 0.00 | 0.00 | 0.00 | |
| 11,500.00 | 88.96 | 179.68 | 8,942.54 | -2,463.40 | -540.49 | 2,460.35 | 0.00 | 0.00 | 0.00 | |
| 11,600.00 | 88.96 | 179.68 | 8,944.35 | -2,563.38 | -539.93 | 2,560.33 | 0.00 | 0.00 | 0.00 | |



Phoenix Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|-------------------------------------|
| Database: | USA Compass | Local Co-ordinate Reference: | Well Bel-Air 5-8 Fed 1BS Com 3H |
| Company: | Earthstone Operating, LLC | TVD Reference: | RKB @ 3752.10usft (Scandriill Star) |
| Project: | Lea County, NM (Nad 83 NME) | MD Reference: | RKB @ 3752.10usft (Scandriill Star) |
| Site: | Bel-Air 5-8 Fed | North Reference: | Grid |
| Well: | Bel-Air 5-8 Fed 1BS Com 3H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 1 07-21-22 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 11,700.00 | 88.96 | 179.68 | 8,946.16 | -2,663.37 | -539.38 | 2,660.31 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 88.96 | 179.68 | 8,947.98 | -2,763.35 | -538.82 | 2,760.30 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 88.96 | 179.68 | 8,949.79 | -2,863.33 | -538.26 | 2,860.28 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 88.96 | 179.68 | 8,951.60 | -2,963.31 | -537.71 | 2,960.26 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 88.96 | 179.68 | 8,953.41 | -3,063.29 | -537.15 | 3,060.25 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 88.96 | 179.68 | 8,955.22 | -3,163.28 | -536.59 | 3,160.23 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 88.96 | 179.68 | 8,957.03 | -3,263.26 | -536.04 | 3,260.21 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 88.96 | 179.68 | 8,958.84 | -3,363.24 | -535.48 | 3,360.20 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 88.96 | 179.68 | 8,960.65 | -3,463.22 | -534.92 | 3,460.18 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 88.96 | 179.68 | 8,962.46 | -3,563.20 | -534.37 | 3,560.16 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 88.96 | 179.68 | 8,964.28 | -3,663.19 | -533.81 | 3,660.15 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 88.96 | 179.68 | 8,966.09 | -3,763.17 | -533.25 | 3,760.13 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 88.96 | 179.68 | 8,967.90 | -3,863.15 | -532.70 | 3,860.12 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 88.96 | 179.68 | 8,969.71 | -3,963.13 | -532.14 | 3,960.10 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 88.96 | 179.68 | 8,971.52 | -4,063.11 | -531.58 | 4,060.08 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 88.96 | 179.68 | 8,973.33 | -4,163.10 | -531.03 | 4,160.07 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 88.96 | 179.68 | 8,975.14 | -4,263.08 | -530.47 | 4,260.05 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 88.96 | 179.68 | 8,976.95 | -4,363.06 | -529.91 | 4,360.03 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 88.96 | 179.68 | 8,978.77 | -4,463.04 | -529.36 | 4,460.02 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 88.96 | 179.68 | 8,980.58 | -4,563.03 | -528.80 | 4,560.00 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 88.96 | 179.68 | 8,982.39 | -4,663.01 | -528.24 | 4,659.98 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 88.96 | 179.68 | 8,984.20 | -4,762.99 | -527.69 | 4,759.97 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 88.96 | 179.68 | 8,986.01 | -4,862.97 | -527.13 | 4,859.95 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 88.96 | 179.68 | 8,987.82 | -4,962.95 | -526.57 | 4,959.94 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 88.96 | 179.68 | 8,989.63 | -5,062.94 | -526.02 | 5,059.92 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 88.96 | 179.68 | 8,991.44 | -5,162.92 | -525.46 | 5,159.90 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 88.96 | 179.68 | 8,993.25 | -5,262.90 | -524.90 | 5,259.89 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 88.96 | 179.68 | 8,995.07 | -5,362.88 | -524.34 | 5,359.87 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 88.96 | 179.68 | 8,996.88 | -5,462.86 | -523.79 | 5,459.85 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 88.96 | 179.68 | 8,998.69 | -5,562.85 | -523.23 | 5,559.84 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 88.96 | 179.68 | 9,000.50 | -5,662.83 | -522.67 | 5,659.82 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 88.96 | 179.68 | 9,002.31 | -5,762.81 | -522.12 | 5,759.80 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 88.96 | 179.68 | 9,004.12 | -5,862.79 | -521.56 | 5,859.79 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 88.96 | 179.68 | 9,005.93 | -5,962.77 | -521.00 | 5,959.77 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 88.96 | 179.68 | 9,007.74 | -6,062.76 | -520.45 | 6,059.75 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 88.96 | 179.68 | 9,009.55 | -6,162.74 | -519.89 | 6,159.74 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 88.96 | 179.68 | 9,011.37 | -6,262.72 | -519.33 | 6,259.72 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 88.96 | 179.68 | 9,013.18 | -6,362.70 | -518.78 | 6,359.71 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 88.96 | 179.68 | 9,014.99 | -6,462.68 | -518.22 | 6,459.69 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 88.96 | 179.68 | 9,016.80 | -6,562.67 | -517.66 | 6,559.67 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 88.96 | 179.68 | 9,018.61 | -6,662.65 | -517.11 | 6,659.66 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 88.96 | 179.68 | 9,020.42 | -6,762.63 | -516.55 | 6,759.64 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 88.96 | 179.68 | 9,022.23 | -6,862.61 | -515.99 | 6,859.62 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 88.96 | 179.68 | 9,024.04 | -6,962.59 | -515.44 | 6,959.61 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 88.96 | 179.68 | 9,025.85 | -7,062.58 | -514.88 | 7,059.59 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 88.96 | 179.68 | 9,027.67 | -7,162.56 | -514.32 | 7,159.57 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 88.96 | 179.68 | 9,029.48 | -7,262.54 | -513.77 | 7,259.56 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 88.96 | 179.68 | 9,031.29 | -7,362.52 | -513.21 | 7,359.54 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 88.96 | 179.68 | 9,033.10 | -7,462.50 | -512.65 | 7,459.53 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 88.96 | 179.68 | 9,034.91 | -7,562.49 | -512.10 | 7,559.51 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 88.96 | 179.68 | 9,036.72 | -7,662.47 | -511.54 | 7,659.49 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 88.96 | 179.68 | 9,038.53 | -7,762.45 | -510.98 | 7,759.48 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 88.96 | 179.68 | 9,040.34 | -7,862.43 | -510.43 | 7,859.46 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 88.96 | 179.68 | 9,042.15 | -7,962.41 | -509.87 | 7,959.44 | 0.00 | 0.00 | 0.00 |



Phoenix Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| Database: | USA Compass | Local Co-ordinate Reference: | Well Bel-Air 5-8 Fed 1BS Com 3H |
| Company: | Earthstone Operating, LLC | TVD Reference: | RKB @ 3752.10usft (Scandriil Star) |
| Project: | Lea County, NM (Nad 83 NME) | MD Reference: | RKB @ 3752.10usft (Scandriil Star) |
| Site: | Bel-Air 5-8 Fed | North Reference: | Grid |
| Well: | Bel-Air 5-8 Fed 1BS Com 3H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 1 07-21-22 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 17,100.00 | 88.96 | 179.68 | 9,043.97 | -8,062.40 | -509.31 | 8,059.43 | 0.00 | 0.00 | 0.00 | |
| 17,200.00 | 88.96 | 179.68 | 9,045.78 | -8,162.38 | -508.76 | 8,159.41 | 0.00 | 0.00 | 0.00 | |
| 17,300.00 | 88.96 | 179.68 | 9,047.59 | -8,262.36 | -508.20 | 8,259.39 | 0.00 | 0.00 | 0.00 | |
| 17,400.00 | 88.96 | 179.68 | 9,049.40 | -8,362.34 | -507.64 | 8,359.38 | 0.00 | 0.00 | 0.00 | |
| 17,500.00 | 88.96 | 179.68 | 9,051.21 | -8,462.33 | -507.09 | 8,459.36 | 0.00 | 0.00 | 0.00 | |
| 17,600.00 | 88.96 | 179.68 | 9,053.02 | -8,562.31 | -506.53 | 8,559.34 | 0.00 | 0.00 | 0.00 | |
| 17,700.00 | 88.96 | 179.68 | 9,054.83 | -8,662.29 | -505.97 | 8,659.33 | 0.00 | 0.00 | 0.00 | |
| 17,800.00 | 88.96 | 179.68 | 9,056.64 | -8,762.27 | -505.42 | 8,759.31 | 0.00 | 0.00 | 0.00 | |
| 17,900.00 | 88.96 | 179.68 | 9,058.46 | -8,862.25 | -504.86 | 8,859.30 | 0.00 | 0.00 | 0.00 | |
| 18,000.00 | 88.96 | 179.68 | 9,060.27 | -8,962.24 | -504.30 | 8,959.28 | 0.00 | 0.00 | 0.00 | |
| 18,100.00 | 88.96 | 179.68 | 9,062.08 | -9,062.22 | -503.75 | 9,059.26 | 0.00 | 0.00 | 0.00 | |
| 18,200.00 | 88.96 | 179.68 | 9,063.89 | -9,162.20 | -503.19 | 9,159.25 | 0.00 | 0.00 | 0.00 | |
| 18,300.00 | 88.96 | 179.68 | 9,065.70 | -9,262.18 | -502.63 | 9,259.23 | 0.00 | 0.00 | 0.00 | |
| 18,400.00 | 88.96 | 179.68 | 9,067.51 | -9,362.16 | -502.08 | 9,359.21 | 0.00 | 0.00 | 0.00 | |
| 18,500.00 | 88.96 | 179.68 | 9,069.32 | -9,462.15 | -501.52 | 9,459.20 | 0.00 | 0.00 | 0.00 | |
| 18,600.00 | 88.96 | 179.68 | 9,071.13 | -9,562.13 | -500.96 | 9,559.18 | 0.00 | 0.00 | 0.00 | |
| 18,700.00 | 88.96 | 179.68 | 9,072.94 | -9,662.11 | -500.41 | 9,659.16 | 0.00 | 0.00 | 0.00 | |
| 18,800.00 | 88.96 | 179.68 | 9,074.76 | -9,762.09 | -499.85 | 9,759.15 | 0.00 | 0.00 | 0.00 | |
| 18,900.00 | 88.96 | 179.68 | 9,076.57 | -9,862.07 | -499.29 | 9,859.13 | 0.00 | 0.00 | 0.00 | |
| 19,000.00 | 88.96 | 179.68 | 9,078.38 | -9,962.06 | -498.74 | 9,959.11 | 0.00 | 0.00 | 0.00 | |
| 19,100.00 | 88.96 | 179.68 | 9,080.19 | -10,062.04 | -498.18 | 10,059.10 | 0.00 | 0.00 | 0.00 | |
| 19,200.00 | 88.96 | 179.68 | 9,082.00 | -10,162.02 | -497.62 | 10,159.08 | 0.00 | 0.00 | 0.00 | |
| 19,300.00 | 88.96 | 179.68 | 9,083.81 | -10,262.00 | -497.07 | 10,259.07 | 0.00 | 0.00 | 0.00 | |
| 19,400.00 | 88.96 | 179.68 | 9,085.62 | -10,361.98 | -496.51 | 10,359.05 | 0.00 | 0.00 | 0.00 | |
| 19,500.00 | 88.96 | 179.68 | 9,087.43 | -10,461.97 | -495.95 | 10,459.03 | 0.00 | 0.00 | 0.00 | |
| 19,600.00 | 88.96 | 179.68 | 9,089.24 | -10,561.95 | -495.40 | 10,559.02 | 0.00 | 0.00 | 0.00 | |
| 19,674.86 | 88.96 | 179.68 | 9,090.60 | -10,636.79 | -494.98 | 10,633.86 | 0.00 | 0.00 | 0.00 | |
| TD at 19674.86 | | | | | | | | | | |

| Design Targets | | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|---------------------|--------------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| FTP - Bel-Air 5-8 Fed - plan hits target center - Point | 0.00 | 0.00 | 8,902.10 | -230.84 | -552.92 | 617,700.74 | 741,127.21 | 32° 41' 47.113865 N | 03° 41' 1.948269 W | |
| BHL - Bel-Air 5-8 Fed - plan hits target center - Point | 0.00 | 0.00 | 9,090.60 | -10,636.79 | -494.98 | 607,294.79 | 741,185.15 | 32° 40' 4.146535 N | 03° 41' 2.015592 W | |



Phoenix
Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------------------|
| Database: | USA Compass | Local Co-ordinate Reference: | Well Bel-Air 5-8 Fed 1BS Com 3H |
| Company: | Earthstone Operating, LLC | TVD Reference: | RKB @ 3752.10usft (Scandril Star) |
| Project: | Lea County, NM (Nad 83 NME) | MD Reference: | RKB @ 3752.10usft (Scandril Star) |
| Site: | Bel-Air 5-8 Fed | North Reference: | Grid |
| Well: | Bel-Air 5-8 Fed 1BS Com 3H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan 1 07-21-22 | | |

| Formations | | | | | | |
|-----------------------|-----------------------|--------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 1,432.10 | 1,432.10 | Rustler | | 1.040 | 179.68 | |
| 1,772.16 | 1,772.05 | Salado | | 1.040 | 179.68 | |
| 3,342.65 | 3,324.89 | Yates | | 1.040 | 179.93 | |
| 3,610.56 | 3,589.50 | 7 Rivers | | 1.040 | 179.93 | |
| 5,571.81 | 5,526.64 | Capitan Reef | | 1.040 | 179.93 | |
| 8,229.24 | 8,181.07 | Queen | | 1.040 | 179.93 | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 1,600.00 | 1,600.00 | 0.00 | 0.00 | KOP, Begin 2.00°/100' Build | |
| 2,050.03 | 2,048.18 | 18.07 | -30.29 | Hold 9.00° Inc at 300.82° Azm | |
| 5,512.36 | 5,467.88 | 295.59 | -495.47 | Begin 1.00°/100' Drop | |
| 6,412.42 | 6,364.24 | 331.73 | -556.05 | Begin Vertical Hold | |
| 8,377.41 | 8,329.24 | 331.73 | -556.05 | KOP2, Begin 10.00°/100' Build | |
| 9,267.04 | 8,902.10 | -230.84 | -552.92 | LP, Hold 89.96° Inc at 179.68° Azm | |
| 19,674.86 | 9,090.60 | -10,636.79 | -494.98 | TD at 19674.86 | |

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| | |
|-------------------------|-----------------------------------|
| OPERATOR'S NAME: | Earthstone |
| LEASE NO.: | NMNM007702 |
| LOCATION: | Section 32, T18 S., R.33 E., NMPM |
| COUNTY: | Lea County, New Mexico |

| | |
|------------------------------|------------------------|
| WELL NAME & NO.: | Bel-Air 5-8 Fed Com 3H |
| SURFACE HOLE FOOTAGE: | 125'/S & 1685'/E |
| BOTTOM HOLE FOOTAGE: | 100'/S & 2240'/E |

COA

| | | | |
|----------------------|---|--|-------------------------------------|
| H2S | <input type="radio"/> Yes | <input checked="" type="radio"/> No | |
| Potash | <input checked="" type="radio"/> None | <input type="radio"/> Secretary | <input type="radio"/> R-111-P |
| Cave/Karst Potential | <input checked="" type="radio"/> Low | <input type="radio"/> Medium | <input type="radio"/> High |
| Cave/Karst Potential | <input type="radio"/> Critical | | |
| Variance | <input type="radio"/> None | <input checked="" type="radio"/> Flex Hose | <input type="radio"/> Other |
| Wellhead | <input type="radio"/> Conventional | <input checked="" type="radio"/> Multibowl | <input type="radio"/> Both |
| Other | <input type="checkbox"/> 4 String Area | <input checked="" type="checkbox"/> Capitan Reef | <input type="checkbox"/> WIPP |
| Other | <input type="checkbox"/> Fluid Filled | <input type="checkbox"/> Cement Squeeze | <input type="checkbox"/> Pilot Hole |
| Special Requirements | <input type="checkbox"/> Water Disposal | <input checked="" type="checkbox"/> COM | <input type="checkbox"/> Unit |

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1600** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

- ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
(Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **50 feet (4775ft)** on top of Capitan Reef top. If cement does not circulate see B.1.a, c-d above. **Excess calculates to 17%.**
Additional cement maybe required.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or capitan reef.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS 120222

Earthstone Operating, LLC

1400 Woodloch Forest Drive, Suite 300
The Woodlands, TX 77380
Phone: (281) 298-4246
Fax: (832) 823-0478

H2S Contingency Plan

Lea County, NM

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crew should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are NO homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000’
 100 ppm H2S concentration shall trigger activation of this plan

Emergency Procedures

In the event of a release of gas containing H2S, the first responder(s) must:

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H2S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the response.
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training
 - in the: Detection of
 - H2S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H2S and SO2,

| Common Name | Chemical Formula | Specific Gravity | Threshold Limit | Hazardous Limit | Lethal Concentration |
|------------------|------------------|------------------|-----------------|-----------------|----------------------|
| Hydrogen Sulfide | H2S | 1.189 Air=1 | 10 ppm | 100 ppm/hr | 600 ppm |
| Sulfur Dioxide | SO2 | 2.21 Air=1 | 2 ppm | N/A | 1000 ppm |

Contacting Authorities

Earthstone Operating, LLC personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Earthstone Operating, LLC response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMERP).

Hydrogen Sulfide Drilling Operations Plan

1. All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
 - A. Characteristics of H2S
 - B. Physical effects and hazards
 - C. Principal and operation of H2S detectors, warning system and briefing areas.
 - D. Evacuation procedure, routes and first aid.
 - E. Proper use of safety equipment & life support systems
 - F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs.
2. H2S Detection and Alarm Systems:
 - a. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary.
 - b. An audio alarm system will be installed on the derrick floor and in the top doghouse.
3. Windsock and/or wind streamers:
 - a. Windsock at mudpit area should be high enough to be visible.
 - b. Windsock on the rig floor and/ or top doghouse should be high enough to be visible.
4. Condition Flags and Signs
 - a. Warning sign on access road to location.
 - b. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential

pressure and danger. Red flag indicates danger (H2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

- 5. Well control equipment:
 - a. See exhibit BOP and Choke Diagrams
- 6. Communication:
 - a. While working under masks chalkboards will be used for communication.
 - b. Hand signals will be used where chalk board is inappropriate.
 - c. Two-way radio will be used to communicate off location in case of emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7. Drill stem Testing:
 - No DSTs are planned at this time.
- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

Emergency Assistance Telephone List

Earthstone Operating, LLC

The Woodlands Office (Headquarters): 281-298-4246

Midland Office: 432-686-1100

Vice President of Drilling-Nick Goree

Office: 281-771-3201

Cell: 405-488-7164

Sr. Drilling Engineer/Superintendent- Ben Taylor

Cell: 432-978-3029

Production Superintendent-Paul Martinez

Cell: 325-206-1722

| Public Safety: | 911 or |
|---|-----------------------|
| Lea County Sheriff's Department | Number: (575)396-3611 |
| Lea County Emergency Management-Lorenzo Velasquez | Number: (575)391-2983 |
| Lea County Fire Marshal | |
| Lorenzo Velasquez, Director | Number: (575)391-2983 |
| Jeff Broom, Deputy Fire Marshal | Number: (575)391-2988 |
| Fire Department: | |
| Knowles Fire Department | Number: (505)392-2810 |
| City of Hobbs Fire Department | Number: (505)397-9308 |
| Jal Volunteer Fire Department | Number: (505)395-2221 |
| Lovington Fire Department | Number: (575)396-2359 |
| Maljamar Fire Department | Number: (505)676-4100 |
| Tatum Volunteer Fire Department | Number: (505)398-3473 |
| Eunice Fire Department | Number: (575)394-3258 |
| Hospital: Lea Regional Medical Center | Number: (575)492-5000 |
| AirMed: Medevac | Number: (888)303-9112 |
| Dept. of Public Safety | Number: (505)827-9000 |
| New Mexico OCD-Dist. 1-Hobbs- | Office |
| | Emergency |
| | Number: (575)393-6161 |
| | Number: (575)370-3186 |
| Lea County Road Department | Number: (575)391-2940 |
| NMDOT | Number: (505)827-5100 |
| Bureau of Land Management | |
| Pecos District Office | Number: (575)627-0272 |
| Carlsbad Field Office | Number: (575)234-5972 |

Earthstone Operating, LLC plans to operate a Closed Loop System.

Operator Name: EARTHSTONE OPERATING LLC
Well Name: BEL-AIR 5-8 FED 1BS COM **Well Number:** 3H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**
Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** BEL-AIR EAST **Number:** 1BS 3H, 4H, 2BS 7H, 8H
Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 15 Miles **Distance to nearest well:** 30 FT **Distance to lease line:** 100 FT

Reservoir well spacing assigned acres Measurement: 321 Acres

Well plat: BEL_AIR_5_8_FED_1BS_COM_3H_CORBIN_BS_APD_C102_07212022_20220727160613.pdf
 BEL_AIR_5_8_FED_1BS_COM_3H_TONTO_BS_APD_C102_07212022_20220727160613.pdf

Well work start Date: 12/01/2022 **Duration:** 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD27

Vertical Datum: NGVD29

Survey number: 8598

Reference Datum: GROUND LEVEL

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this |
|------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|------------|--------------|--------|------------|------------|------------|--------------|-----------|------|------|----------------------------------|
| SHL Leg #1 | 125 | FSL | 1685 | FEL | 18S | 33E | 32 | Aliquot SWSE | 32.6970457 | -103.6820726 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | 3725 | 0 | 0 | N |
| KOP Leg #1 | 125 | FSL | 1685 | FEL | 18S | 33E | 32 | Aliquot SWSE | 32.6970457 | -103.6820726 | LEA | NEW MEXICO | NEW MEXICO | S | STATE | -4604 | 8377 | 8329 | N |

Operator Name: EARTHSTONE OPERATING LLC

Well Name: BEL-AIR 5-8 FED 1BS COM

Well Number: 3H

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this |
|--------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|------------|--------------|--------|------------|------------|------------|--------------|-----------|-------|------|----------------------------------|
| PPP Leg #1-1 | 100 | FNL | 2240 | FEL | 19S | 33E | 5 | Lot 2 | 32.6964205 | -103.6838745 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 077002 | -5177 | 9267 | 8902 | Y |
| PPP Leg #1-2 | 2591 | FSL | 2240 | FEL | 19S | 33E | 8 | Aliquot NWSE | 32.674646 | -103.683994 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 21172 | -5319 | 17183 | 9044 | Y |
| EXIT Leg #1 | 100 | FSL | 2240 | FEL | 19S | 33E | 8 | Aliquot SWSE | 32.6678185 | -103.6838932 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 077002 | -5365 | 19674 | 9090 | Y |
| BHL Leg #1 | 100 | FSL | 2240 | FEL | 19S | 33E | 8 | Aliquot SWSE | 32.6678185 | -103.6838932 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 077002 | -5365 | 19674 | 9090 | Y |



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

12/22/2022

APD ID: 10400086998

Submission Date: 08/26/2022

Highlighted data
reflects the most
recent changes

Operator Name: EARTHSTONE OPERATING LLC

Well Name: BEL-AIR 5-8 FED 1BS COM

Well Number: 3H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|--------------|------------------|-----------|---------------|----------------|--|-------------------|--------------------|
| 8961231 | RUSTLER | 3725 | 1512 | 1512 | ANHYDRITE | USEABLE WATER | N |
| 8961232 | SALADO | 1933 | 1792 | 1792 | SALT | NONE | N |
| 8961234 | YATES | 528 | 3197 | 3197 | ANHYDRITE, DOLOMITE | NATURAL GAS, OIL | N |
| 8961235 | CAPITAN REEF | -16 | 3741 | 3741 | DOLOMITE, LIMESTONE | NONE | N |
| 8961233 | SEVEN RIVERS | -20 | 3745 | 3745 | ANHYDRITE, DOLOMITE | NONE | N |
| 8961236 | CHERRY CANYON | -1398 | 5123 | 5123 | SANDSTONE, SHALE, SILTSTONE | NATURAL GAS, OIL | N |
| 8961237 | BRUSHY CANYON | -2222 | 5947 | 5947 | LIMESTONE, SANDSTONE, SHALE, SILTSTONE | NATURAL GAS, OIL | N |
| 8961238 | BONE SPRING LIME | -3787 | 7512 | 7512 | LIMESTONE, SHALE | NATURAL GAS, OIL | N |
| 8961241 | BONE SPRING 1ST | -5127 | 8852 | 8852 | SANDSTONE, SHALE, SILTSTONE | NATURAL GAS, OIL | Y |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12000

Equipment: Rotating Head, remote kill line, mud-gas separator

Requesting Variance? YES

Variance request: WE PROPOSE UTILIZING A CACTUS SPEED HEAD MULTI-BOWL WELLHEAD FOR THIS WELL. PLEASE SEE ATTACHED DIAGRAM AND PRESSURE TESTING STATEMENT. ALSO WE REQUEST TO USE A FLEX CHOKE HOSE; PLEASE SEE ATTACHMENT. Earthstone Operating LLC respectfully proposes that if cement is not returned to surface during the primary cement job on the 8-5/8" Intermediate casing, a planned Bradenhead job will be conducted immediately after the primary cement job.

Testing Procedure: BOP will be tested by an independent service company to 250 psi low and 5000 psi high, per onshore order 2. BOP testing procedure -N/U the rigs BOP. Use 3rd party testers to perform the following: -Test the pipe rams, blind rams, floor valves (IBOP and/or upper Kelly valve), choke lines and manifold to 250 psi/5,000 psi with a test plug and a test pump. -Test the Hydril annular to 250 psi/2,500 psi with same as above.

Choke Diagram Attachment:

BOP SHEET

Annular Preventer

13-3/8 2,500 PSI WP

Ram Preventers

13-3/8" 5,000 PSI WP Double Ram

13-3/8" 5,000 PSI WP Single Ram

Test the pipe rams, blind rams, floor valves (IBOP and/or upper Kelly valve), choke lines and manifold to 250 psi/5,000 psi with a test plug and a test pump.

Test the annular to 250 psi/2,500 psi with same as above.

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 173725

CONDITIONS

| | |
|--|--|
| Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380 | OGRID: 331165 |
| | Action Number: 173725 |
| | Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |
| | |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| pkautz | ALL WELLS IN SAME PROPERTY MUST HAVE SAME PROPERTY NAME. MUST SUBMIT SUNDRY PRIOR TO SPUDDING WELL CHANGING PROPERTY NAME. | 1/23/2023 |
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 1/23/2023 |
| pkautz | 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 | 1/23/2023 |
| pkautz | 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 | 1/23/2023 |
| pkautz | Cement is required to circulate on both surface and intermediate1 strings of casing | 1/23/2023 |