

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.
		8. Lease Name and Well No. [333713]
2. Name of Operator [331165]		9. API Well No. 30-025-50977
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [13160/59475]
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		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

SL



KZ
01/23/2023

(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 30-025-50977	² Pool Code 13160	³ Pool Name CORBIN; BONE SPRING
⁴ Property Code 333713	⁵ Property Name BEL-AIR 5-8 FED 1BS COM	
⁷ OGRID No. 331165	⁸ Operator Name EARTHSTONE OPERATING, LLC	⁶ Well Number 4H
		⁹ Elevation 3724.6

¹⁰ Surface Location

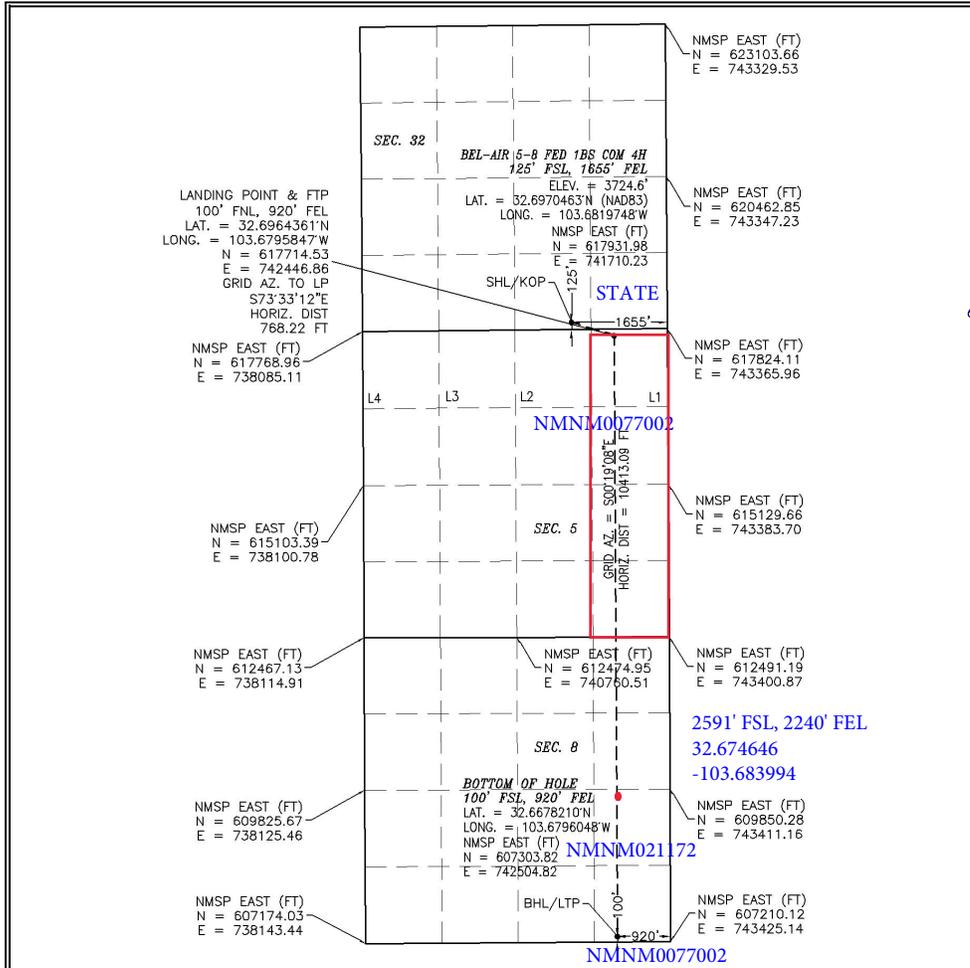
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	32	18 S	33 E		125	SOUTH	1655	EAST	LEA

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
P	8	19 S	33 E		100	SOUTH	920	EAST	LEA

¹² Dedicated Acres 161.48	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 7/21/2022
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
JENNIFER ELROD, JARAMILLO, P.S. 12797
PROFESSIONAL SURVEYOR NO. 8601

Intent As Drilled

API #

Operator Name: EARTHSTONE OPERATING, LLC	Property Name: BEL-AIR 5-8 FED 1BS COM	Well Number 4H
--	--	--------------------------

Kick Off Point (KOP)

UL O	Section 32	Township 18S	Range 33E	Lot	Feet 125	From N/S SOUTH	Feet 1655	From E/W EAST	County LEA
Latitude 32.6970463					Longitude 103.6819748				NAD 83

First Take Point (FTP)

UL O	Section 5	Township 19S	Range 33E	Lot 1	Feet 100	From N/S NORTH	Feet 920	From E/W EAST	County LEA
Latitude 32.6964361					Longitude 103.6795847				NAD 83

Last Take Point (LTP)

UL P	Section 8	Township 19S	Range 33E	Lot	Feet 100	From N/S SOUTH	Feet 920	From E/W EAST	County LEA
Latitude 32.6678210					Longitude 103.6796048				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 #
30-025-49714

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

KZ 06/29/2018

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1625 N. French Dr., Hobbs, NM 88240
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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 30-025-50977		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 4H
⁷ OGRID No. 331165		⁸ Operator Name EARTHSTONE OPERATING, LLC			⁹ Elevation 3724.6

¹⁰ Surface Location

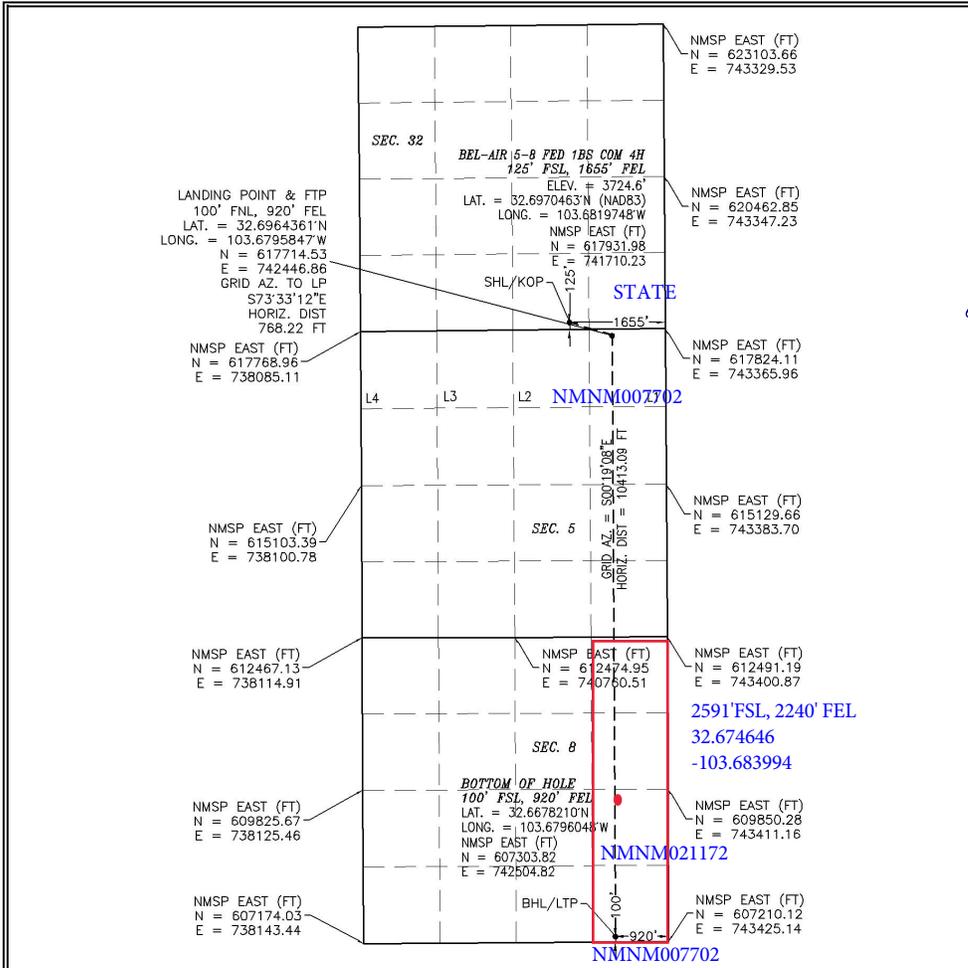
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Jennifer Elrod 7/21/2022
Signature Date

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
Professional Surveyor License No. 8601

Intent As Drilled

API #

Operator Name: EARTHSTONE OPERATING, LLC	Property Name: BEL-AIR 5-8 FED 1BS COM	Well Number 4H
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API #
30-025-49714

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

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		O-32-18S-33E	125 FSL,1655 FEL	1250	1650	6000
Bel-Air 5-8 Fed 1BS Com 4H	30-025-50977	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		09/01/2022	09/28/2022	12/01/2022	12/20/2022	12/25/2022
Bel-Air 5-8 Fed 2BS Com 4H	30-025-50977	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 19.15.27.8NMAC.

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: 4H

5M_Choke_Manifold_Diagram_20220826110719.pdf

BOP Diagram Attachment:

5M_BOP_Diagram_2_20220826110735.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	3724	2124	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	-1676	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	19691	0	9106	3724	-5382	19691	P-110	20	OTHER - RY VARN AC	2.96	2.81	DRY	3.52	DRY	3.52

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_4H_20220826123303.pdf

Operator Name: EARTHSTONE OPERATING LLC

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

Well Number: 4H

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_4H_20220826123226.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_4H_20220826123152.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	418	50	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: 4H

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	674	25	Class H	Bentonite, Compressive Strength Enhancer, Silica Fume Alternative, Fluid Loss, Defoamer, Sodium Metasilicate, Retarder
PRODUCTION	Tail		7877	1969 1	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	1969 1	OIL-BASED MUD	9.3	9.5							15-20 PV 8-12 YP
1600	5400	SALT SATURATED	9.8	10.2							28-32 VIS 1-3 PV 1-3 YP

WELL DETAILS						
+N/-S	+E/-W	Northing	Ground Level	Easting	Latitude	Longitude
0.00	0.00	617931.98	3724.60	741710.23	32° 41' 49.366534 N	103° 40' 55.109203 W

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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	2050.23	9.00	64.86	2048.38	15.00	31.96	2.00	64.857	-14.82		Hold 9.00° Inc at 64.86° Azm
4	6550.56	9.00	64.86	6493.25	314.27	669.58	0.00	0.000	-310.53		Begin 1.00°/100' Drop
5	7451.02	0.00	0.00	7390.00	344.27	733.50	1.00	180.000	-340.17		Begin Vertical Hold
6	8390.27	0.00	0.00	8329.25	344.27	733.50	0.00	0.000	-340.17		KOP2, Begin 10.00°/100' Build
7	9279.04	88.88	179.68	8902.10	-217.45	736.63	10.00	179.681	221.56	FTP - Bel-Air 5-8 Fed 1BS Com 4H	LP, Hold 88.88° Inc at 179.68° Azm
8	19691.91	88.88	179.68	9106.10-10628.16	794.59	0.00	0.000	10632.43		BHL - Bel-Air 5-8 Fed 1BS Com 4H	TD at 19691.91

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP - Bel-Air 5-8 Fed 1BS Com 4H	8902.10	-217.45	736.63	617714.53	742446.86	32° 41' 47.170092 N	103° 40' 46.504852 W
BHL - Bel-Air 5-8 Fed 1BS Com 4H	9106.10	-10628.16	794.59	607303.82	742504.82	32° 40' 4.155727 N	103° 40' 46.577206 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 4H, Grid North

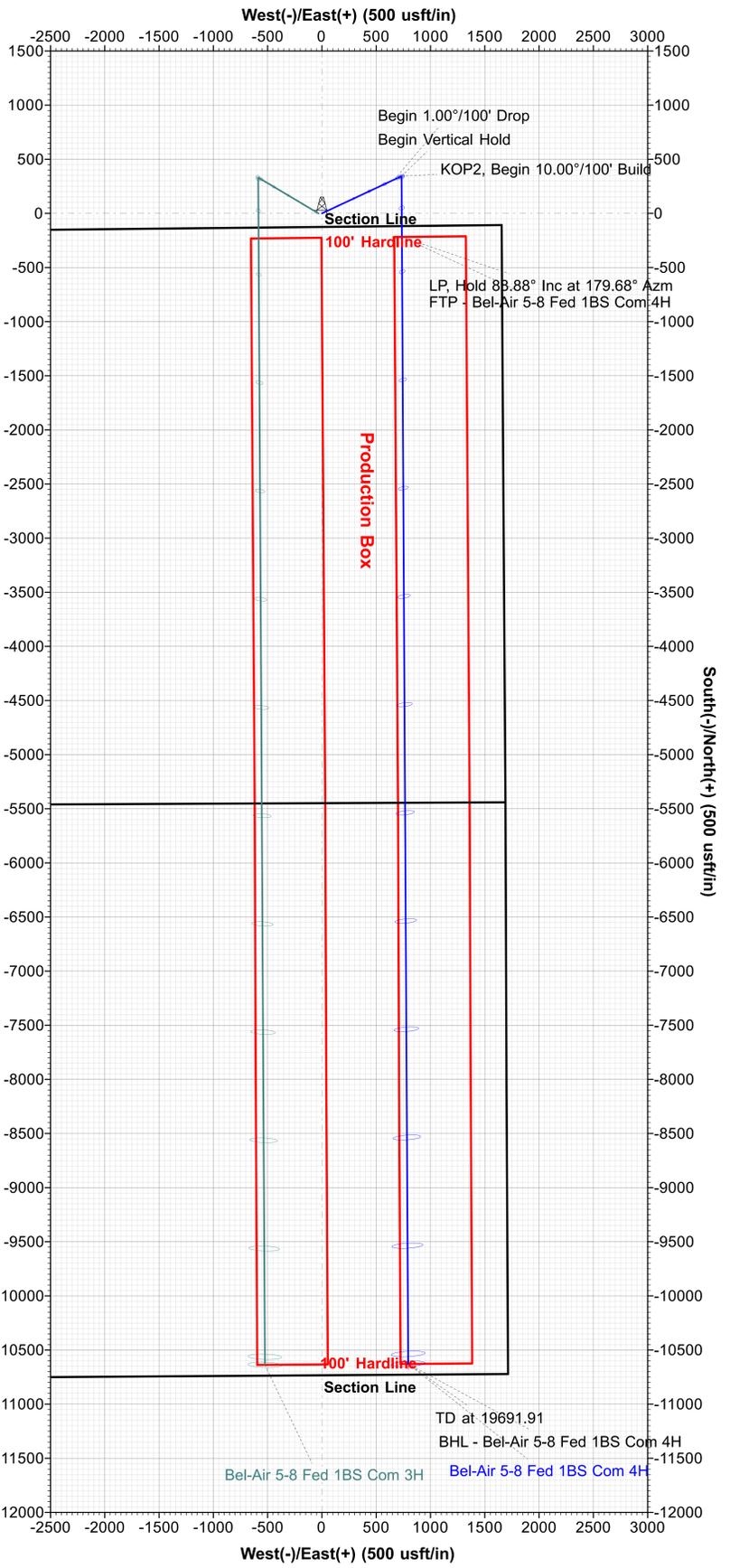
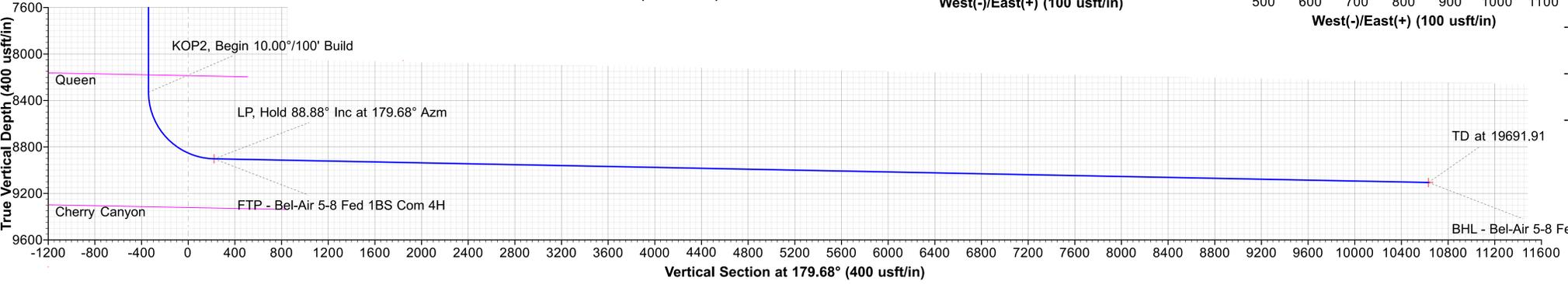
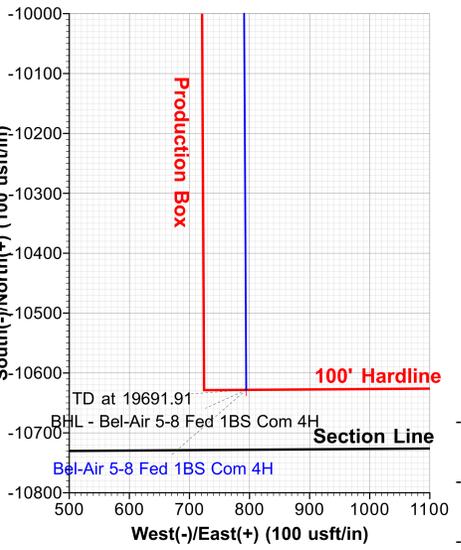
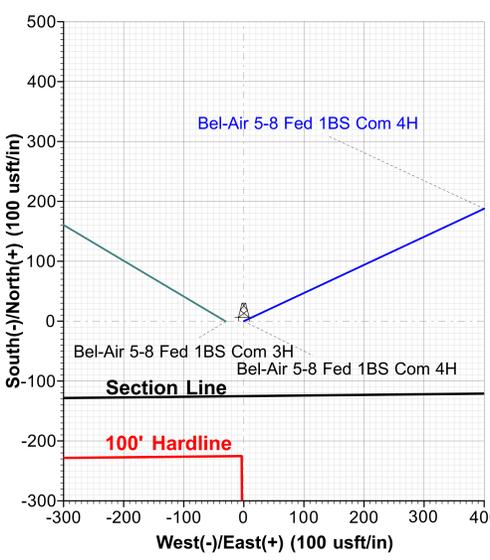
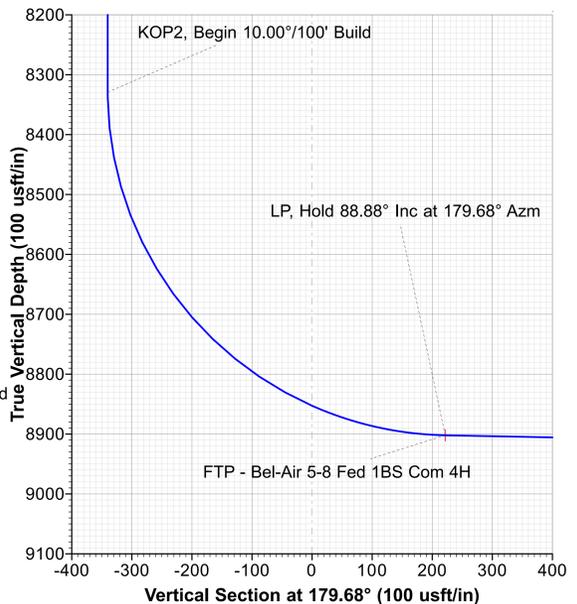
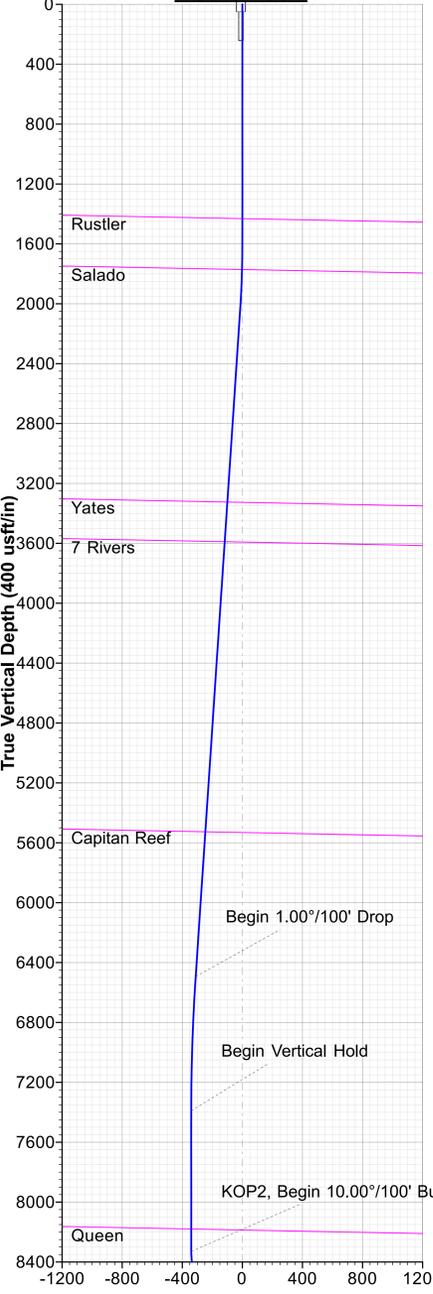
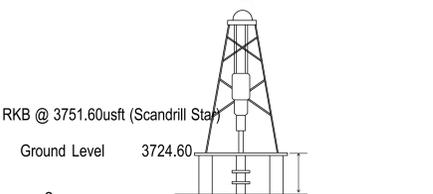
Latitude: 32° 41' 49.366534 N
 Longitude: 103° 40' 55.109203 W

Grid East: 741710.23
 Grid North: 617931.98
 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: 47848.93107171nT

To convert a Magnetic Direction to a Grid Direction, Add 6.03°
 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
1431.60	1431.60	Rustler
1771.56	1771.66	Salado
3324.65	3342.43	Yates
3589.31	3610.38	7 Rivers
5526.79	5572.04	Capitan Reef
8179.95	8240.97	Queen





Earthstone Operating, LLC

Lea County, NM (Nad 83 NME)

Bel-Air 5-8 Fed

Bel-Air 5-8 Fed 1BS Com 4H

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 4H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3751.60usft (Scandrill Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3751.60usft (Scandrill Star)
Site:	Bel-Air 5-8 Fed	North Reference:	Grid
Well:	Bel-Air 5-8 Fed 1BS Com 4H	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 4H					
Well Position	+N/-S	0.40 usft	Northing:	617,931.98 usft	Latitude:	32° 41' 49.366534 N
	+E/-W	30.10 usft	Easting:	741,710.23 usft	Longitude:	103° 40' 55.109203 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,724.60 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/20/2022	6.384	60.556	47,848.93107172

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	7/20/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,691.91	Plan 1 07-21-22 (OH)	MWD+HRGM	
				OWSG MWD + HRGM	

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	
2,050.23	9.00	64.86	2,048.38	15.00	31.96	2.00	2.00	0.00	64.857	
6,550.56	9.00	64.86	6,493.25	314.27	669.58	0.00	0.00	0.00	0.000	
7,451.02	0.00	0.00	7,390.00	344.27	733.50	1.00	-1.00	0.00	180.000	
8,390.27	0.00	0.00	8,329.25	344.27	733.50	0.00	0.00	0.00	0.000	
9,279.04	88.88	179.68	8,902.10	-217.45	736.63	10.00	10.00	0.00	179.681	FTP - Bel-Air 5-8 Fed
19,691.91	88.88	179.68	9,106.10	-10,628.16	794.59	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 4H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3751.60usft (Scandrill Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3751.60usft (Scandrill Star)
Site:	Bel-Air 5-8 Fed	North Reference:	Grid
Well:	Bel-Air 5-8 Fed 1BS Com 4H	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
1,431.60	0.00	0.00	1,431.60	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	64.86	1,699.98	0.74	1.58	-0.73	2.00	2.00	0.00
1,771.66	3.43	64.86	1,771.56	2.18	4.65	-2.16	2.00	2.00	0.00
Salado									
1,800.00	4.00	64.86	1,799.84	2.97	6.32	-2.93	2.00	2.00	0.00
1,900.00	6.00	64.86	1,899.45	6.67	14.21	-6.59	2.00	2.00	0.00
2,000.00	8.00	64.86	1,998.70	11.85	25.24	-11.70	2.00	2.00	0.00
2,050.23	9.00	64.86	2,048.38	15.00	31.96	-14.82	2.00	2.00	0.00
Hold 9.00° Inc at 64.86° Azm									
2,100.00	9.00	64.86	2,097.54	18.31	39.01	-18.09	0.00	0.00	0.00
2,200.00	9.00	64.86	2,196.30	24.96	53.18	-24.66	0.00	0.00	0.00
2,300.00	9.00	64.86	2,295.07	31.61	67.35	-31.23	0.00	0.00	0.00
2,400.00	9.00	64.86	2,393.84	38.26	81.52	-37.80	0.00	0.00	0.00
2,500.00	9.00	64.86	2,492.61	44.91	95.69	-44.38	0.00	0.00	0.00
2,600.00	9.00	64.86	2,591.37	51.56	109.85	-50.95	0.00	0.00	0.00
2,700.00	9.00	64.86	2,690.14	58.21	124.02	-57.52	0.00	0.00	0.00
2,800.00	9.00	64.86	2,788.91	64.86	138.19	-64.09	0.00	0.00	0.00
2,900.00	9.00	64.86	2,887.68	71.51	152.36	-70.66	0.00	0.00	0.00
3,000.00	9.00	64.86	2,986.44	78.16	166.53	-77.23	0.00	0.00	0.00
3,100.00	9.00	64.86	3,085.21	84.81	180.70	-83.80	0.00	0.00	0.00
3,200.00	9.00	64.86	3,183.98	91.46	194.86	-90.37	0.00	0.00	0.00
3,300.00	9.00	64.86	3,282.75	98.11	209.03	-96.94	0.00	0.00	0.00
3,342.43	9.00	64.86	3,324.65	100.93	215.04	-99.73	0.00	0.00	0.00
Yates									
3,400.00	9.00	64.86	3,381.51	104.76	223.20	-103.51	0.00	0.00	0.00
3,500.00	9.00	64.86	3,480.28	111.41	237.37	-110.08	0.00	0.00	0.00
3,600.00	9.00	64.86	3,579.05	118.06	251.54	-116.65	0.00	0.00	0.00
3,610.38	9.00	64.86	3,589.31	118.75	253.01	-117.34	0.00	0.00	0.00
7 Rivers									
3,700.00	9.00	64.86	3,677.82	124.71	265.71	-123.22	0.00	0.00	0.00
3,800.00	9.00	64.86	3,776.58	131.36	279.87	-129.80	0.00	0.00	0.00
3,900.00	9.00	64.86	3,875.35	138.01	294.04	-136.37	0.00	0.00	0.00
4,000.00	9.00	64.86	3,974.12	144.66	308.21	-142.94	0.00	0.00	0.00
4,100.00	9.00	64.86	4,072.89	151.31	322.38	-149.51	0.00	0.00	0.00
4,200.00	9.00	64.86	4,171.66	157.96	336.55	-156.08	0.00	0.00	0.00
4,300.00	9.00	64.86	4,270.42	164.61	350.72	-162.65	0.00	0.00	0.00
4,400.00	9.00	64.86	4,369.19	171.26	364.88	-169.22	0.00	0.00	0.00
4,500.00	9.00	64.86	4,467.96	177.91	379.05	-175.79	0.00	0.00	0.00
4,600.00	9.00	64.86	4,566.73	184.56	393.22	-182.36	0.00	0.00	0.00
4,700.00	9.00	64.86	4,665.49	191.21	407.39	-188.93	0.00	0.00	0.00
4,800.00	9.00	64.86	4,764.26	197.86	421.56	-195.50	0.00	0.00	0.00
4,900.00	9.00	64.86	4,863.03	204.51	435.73	-202.07	0.00	0.00	0.00
5,000.00	9.00	64.86	4,961.80	211.16	449.89	-208.64	0.00	0.00	0.00
5,100.00	9.00	64.86	5,060.56	217.81	464.06	-215.22	0.00	0.00	0.00
5,200.00	9.00	64.86	5,159.33	224.46	478.23	-221.79	0.00	0.00	0.00
5,300.00	9.00	64.86	5,258.10	231.11	492.40	-228.36	0.00	0.00	0.00
5,400.00	9.00	64.86	5,356.87	237.76	506.57	-234.93	0.00	0.00	0.00
5,500.00	9.00	64.86	5,455.63	244.41	520.73	-241.50	0.00	0.00	0.00
5,572.04	9.00	64.86	5,526.79	249.20	530.94	-246.23	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Bel-Air 5-8 Fed 1BS Com 4H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3751.60usft (Scandrill Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3751.60usft (Scandrill Star)
Site:	Bel-Air 5-8 Fed	North Reference:	Grid
Well:	Bel-Air 5-8 Fed 1BS Com 4H	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)
Capitan Reef									
5,600.00	9.00	64.86	5,554.40	251.06	534.90	-248.07	0.00	0.00	0.00
5,700.00	9.00	64.86	5,653.17	257.71	549.07	-254.64	0.00	0.00	0.00
5,800.00	9.00	64.86	5,751.94	264.36	563.24	-261.21	0.00	0.00	0.00
5,900.00	9.00	64.86	5,850.70	271.01	577.41	-267.78	0.00	0.00	0.00
6,000.00	9.00	64.86	5,949.47	277.66	591.58	-274.35	0.00	0.00	0.00
6,100.00	9.00	64.86	6,048.24	284.31	605.74	-280.92	0.00	0.00	0.00
6,200.00	9.00	64.86	6,147.01	290.96	619.91	-287.49	0.00	0.00	0.00
6,300.00	9.00	64.86	6,245.77	297.61	634.08	-294.06	0.00	0.00	0.00
6,400.00	9.00	64.86	6,344.54	304.26	648.25	-300.63	0.00	0.00	0.00
6,500.00	9.00	64.86	6,443.31	310.91	662.42	-307.21	0.00	0.00	0.00
6,550.56	9.00	64.86	6,493.25	314.27	669.58	-310.53	0.00	0.00	0.00
Begin 1.00°/100' Drop									
6,600.00	8.51	64.86	6,542.11	317.47	676.40	-313.69	1.00	-1.00	0.00
6,700.00	7.51	64.86	6,641.13	323.39	689.01	-319.54	1.00	-1.00	0.00
6,800.00	6.51	64.86	6,740.38	328.58	700.06	-324.66	1.00	-1.00	0.00
6,900.00	5.51	64.86	6,839.83	333.03	709.54	-329.06	1.00	-1.00	0.00
7,000.00	4.51	64.86	6,939.45	336.74	717.44	-332.72	1.00	-1.00	0.00
7,100.00	3.51	64.86	7,039.20	339.71	723.77	-335.66	1.00	-1.00	0.00
7,200.00	2.51	64.86	7,139.06	341.94	728.53	-337.86	1.00	-1.00	0.00
7,300.00	1.51	64.86	7,239.00	343.43	731.70	-339.34	1.00	-1.00	0.00
7,400.00	0.51	64.86	7,338.99	344.18	733.30	-340.08	1.00	-1.00	0.00
7,451.02	0.00	0.00	7,390.00	344.27	733.50	-340.17	1.00	-1.00	0.00
Begin Vertical Hold									
8,240.97	0.00	0.00	8,179.95	344.27	733.50	-340.17	0.00	0.00	0.00
Queen									
8,390.27	0.00	0.00	8,329.25	344.27	733.50	-340.17	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
8,400.00	0.97	179.68	8,338.98	344.19	733.50	-340.09	10.00	10.00	0.00
8,500.00	10.97	179.68	8,438.31	333.80	733.56	-329.70	10.00	10.00	0.00
8,600.00	20.97	179.68	8,534.33	306.32	733.71	-302.21	10.00	10.00	0.00
8,700.00	30.97	179.68	8,624.12	262.58	733.96	-258.47	10.00	10.00	0.00
8,800.00	40.97	179.68	8,704.94	203.91	734.28	-199.81	10.00	10.00	0.00
8,900.00	50.97	179.68	8,774.36	132.10	734.68	-128.00	10.00	10.00	0.00
9,000.00	60.97	179.68	8,830.24	49.33	735.14	-45.22	10.00	10.00	0.00
9,100.00	70.97	179.68	8,870.91	-41.89	735.65	46.00	10.00	10.00	0.00
9,200.00	80.97	179.68	8,895.11	-138.78	736.19	142.89	10.00	10.00	0.00
9,279.04	88.88	179.68	8,902.10	-217.45	736.63	221.56	10.00	10.00	0.00
LP, Hold 88.88° Inc at 179.68° Azm									
9,300.00	88.88	179.68	8,902.51	-238.40	736.75	242.51	0.00	0.00	0.00
9,400.00	88.88	179.68	8,904.47	-338.38	737.30	342.50	0.00	0.00	0.00
9,500.00	88.88	179.68	8,906.43	-438.36	737.86	442.48	0.00	0.00	0.00
9,600.00	88.88	179.68	8,908.39	-538.34	738.42	542.46	0.00	0.00	0.00
9,700.00	88.88	179.68	8,910.35	-638.32	738.97	642.44	0.00	0.00	0.00
9,800.00	88.88	179.68	8,912.31	-738.30	739.53	742.42	0.00	0.00	0.00
9,900.00	88.88	179.68	8,914.27	-838.28	740.09	842.40	0.00	0.00	0.00
10,000.00	88.88	179.68	8,916.22	-938.26	740.64	942.38	0.00	0.00	0.00
10,100.00	88.88	179.68	8,918.18	-1,038.24	741.20	1,042.36	0.00	0.00	0.00
10,200.00	88.88	179.68	8,920.14	-1,138.22	741.76	1,142.34	0.00	0.00	0.00
10,300.00	88.88	179.68	8,922.10	-1,238.20	742.31	1,242.32	0.00	0.00	0.00
10,400.00	88.88	179.68	8,924.06	-1,338.18	742.87	1,342.30	0.00	0.00	0.00
10,500.00	88.88	179.68	8,926.02	-1,438.15	743.43	1,442.28	0.00	0.00	0.00
10,600.00	88.88	179.68	8,927.98	-1,538.13	743.98	1,542.26	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Bel-Air 5-8 Fed 1BS Com 4H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3751.60usft (Scandrill Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3751.60usft (Scandrill Star)
Site:	Bel-Air 5-8 Fed	North Reference:	Grid
Well:	Bel-Air 5-8 Fed 1BS Com 4H	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)
10,700.00	88.88	179.68	8,929.94	-1,638.11	744.54	1,642.25	0.00	0.00	0.00
10,800.00	88.88	179.68	8,931.90	-1,738.09	745.10	1,742.23	0.00	0.00	0.00
10,900.00	88.88	179.68	8,933.86	-1,838.07	745.65	1,842.21	0.00	0.00	0.00
11,000.00	88.88	179.68	8,935.82	-1,938.05	746.21	1,942.19	0.00	0.00	0.00
11,100.00	88.88	179.68	8,937.77	-2,038.03	746.77	2,042.17	0.00	0.00	0.00
11,200.00	88.88	179.68	8,939.73	-2,138.01	747.32	2,142.15	0.00	0.00	0.00
11,300.00	88.88	179.68	8,941.69	-2,237.99	747.88	2,242.13	0.00	0.00	0.00
11,400.00	88.88	179.68	8,943.65	-2,337.97	748.44	2,342.11	0.00	0.00	0.00
11,500.00	88.88	179.68	8,945.61	-2,437.95	748.99	2,442.09	0.00	0.00	0.00
11,600.00	88.88	179.68	8,947.57	-2,537.93	749.55	2,542.07	0.00	0.00	0.00
11,700.00	88.88	179.68	8,949.53	-2,637.91	750.11	2,642.05	0.00	0.00	0.00
11,800.00	88.88	179.68	8,951.49	-2,737.88	750.66	2,742.03	0.00	0.00	0.00
11,900.00	88.88	179.68	8,953.45	-2,837.86	751.22	2,842.02	0.00	0.00	0.00
12,000.00	88.88	179.68	8,955.41	-2,937.84	751.78	2,942.00	0.00	0.00	0.00
12,100.00	88.88	179.68	8,957.37	-3,037.82	752.33	3,041.98	0.00	0.00	0.00
12,200.00	88.88	179.68	8,959.33	-3,137.80	752.89	3,141.96	0.00	0.00	0.00
12,300.00	88.88	179.68	8,961.28	-3,237.78	753.45	3,241.94	0.00	0.00	0.00
12,400.00	88.88	179.68	8,963.24	-3,337.76	754.00	3,341.92	0.00	0.00	0.00
12,500.00	88.88	179.68	8,965.20	-3,437.74	754.56	3,441.90	0.00	0.00	0.00
12,600.00	88.88	179.68	8,967.16	-3,537.72	755.12	3,541.88	0.00	0.00	0.00
12,700.00	88.88	179.68	8,969.12	-3,637.70	755.67	3,641.86	0.00	0.00	0.00
12,800.00	88.88	179.68	8,971.08	-3,737.68	756.23	3,741.84	0.00	0.00	0.00
12,900.00	88.88	179.68	8,973.04	-3,837.66	756.78	3,841.82	0.00	0.00	0.00
13,000.00	88.88	179.68	8,975.00	-3,937.64	757.34	3,941.80	0.00	0.00	0.00
13,100.00	88.88	179.68	8,976.96	-4,037.62	757.90	4,041.79	0.00	0.00	0.00
13,200.00	88.88	179.68	8,978.92	-4,137.59	758.45	4,141.77	0.00	0.00	0.00
13,300.00	88.88	179.68	8,980.88	-4,237.57	759.01	4,241.75	0.00	0.00	0.00
13,400.00	88.88	179.68	8,982.83	-4,337.55	759.57	4,341.73	0.00	0.00	0.00
13,500.00	88.88	179.68	8,984.79	-4,437.53	760.12	4,441.71	0.00	0.00	0.00
13,600.00	88.88	179.68	8,986.75	-4,537.51	760.68	4,541.69	0.00	0.00	0.00
13,700.00	88.88	179.68	8,988.71	-4,637.49	761.24	4,641.67	0.00	0.00	0.00
13,800.00	88.88	179.68	8,990.67	-4,737.47	761.79	4,741.65	0.00	0.00	0.00
13,900.00	88.88	179.68	8,992.63	-4,837.45	762.35	4,841.63	0.00	0.00	0.00
14,000.00	88.88	179.68	8,994.59	-4,937.43	762.91	4,941.61	0.00	0.00	0.00
14,100.00	88.88	179.68	8,996.55	-5,037.41	763.46	5,041.59	0.00	0.00	0.00
14,200.00	88.88	179.68	8,998.51	-5,137.39	764.02	5,141.57	0.00	0.00	0.00
14,300.00	88.88	179.68	9,000.47	-5,237.37	764.58	5,241.55	0.00	0.00	0.00
14,400.00	88.88	179.68	9,002.43	-5,337.35	765.13	5,341.54	0.00	0.00	0.00
14,500.00	88.88	179.68	9,004.38	-5,437.32	765.69	5,441.52	0.00	0.00	0.00
14,600.00	88.88	179.68	9,006.34	-5,537.30	766.25	5,541.50	0.00	0.00	0.00
14,700.00	88.88	179.68	9,008.30	-5,637.28	766.80	5,641.48	0.00	0.00	0.00
14,800.00	88.88	179.68	9,010.26	-5,737.26	767.36	5,741.46	0.00	0.00	0.00
14,900.00	88.88	179.68	9,012.22	-5,837.24	767.92	5,841.44	0.00	0.00	0.00
15,000.00	88.88	179.68	9,014.18	-5,937.22	768.47	5,941.42	0.00	0.00	0.00
15,100.00	88.88	179.68	9,016.14	-6,037.20	769.03	6,041.40	0.00	0.00	0.00
15,200.00	88.88	179.68	9,018.10	-6,137.18	769.59	6,141.38	0.00	0.00	0.00
15,300.00	88.88	179.68	9,020.06	-6,237.16	770.14	6,241.36	0.00	0.00	0.00
15,400.00	88.88	179.68	9,022.02	-6,337.14	770.70	6,341.34	0.00	0.00	0.00
15,500.00	88.88	179.68	9,023.98	-6,437.12	771.26	6,441.32	0.00	0.00	0.00
15,600.00	88.88	179.68	9,025.93	-6,537.10	771.81	6,541.31	0.00	0.00	0.00
15,700.00	88.88	179.68	9,027.89	-6,637.08	772.37	6,641.29	0.00	0.00	0.00
15,800.00	88.88	179.68	9,029.85	-6,737.06	772.93	6,741.27	0.00	0.00	0.00
15,900.00	88.88	179.68	9,031.81	-6,837.03	773.48	6,841.25	0.00	0.00	0.00
16,000.00	88.88	179.68	9,033.77	-6,937.01	774.04	6,941.23	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Bel-Air 5-8 Fed 1BS Com 4H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3751.60usft (Scandrill Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3751.60usft (Scandrill Star)
Site:	Bel-Air 5-8 Fed	North Reference:	Grid
Well:	Bel-Air 5-8 Fed 1BS Com 4H	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)	
16,100.00	88.88	179.68	9,035.73	-7,036.99	774.60	7,041.21	0.00	0.00	0.00	
16,200.00	88.88	179.68	9,037.69	-7,136.97	775.15	7,141.19	0.00	0.00	0.00	
16,300.00	88.88	179.68	9,039.65	-7,236.95	775.71	7,241.17	0.00	0.00	0.00	
16,400.00	88.88	179.68	9,041.61	-7,336.93	776.27	7,341.15	0.00	0.00	0.00	
16,500.00	88.88	179.68	9,043.57	-7,436.91	776.82	7,441.13	0.00	0.00	0.00	
16,600.00	88.88	179.68	9,045.53	-7,536.89	777.38	7,541.11	0.00	0.00	0.00	
16,700.00	88.88	179.68	9,047.49	-7,636.87	777.94	7,641.09	0.00	0.00	0.00	
16,800.00	88.88	179.68	9,049.44	-7,736.85	778.49	7,741.08	0.00	0.00	0.00	
16,900.00	88.88	179.68	9,051.40	-7,836.83	779.05	7,841.06	0.00	0.00	0.00	
17,000.00	88.88	179.68	9,053.36	-7,936.81	779.61	7,941.04	0.00	0.00	0.00	
17,100.00	88.88	179.68	9,055.32	-8,036.79	780.16	8,041.02	0.00	0.00	0.00	
17,200.00	88.88	179.68	9,057.28	-8,136.76	780.72	8,141.00	0.00	0.00	0.00	
17,300.00	88.88	179.68	9,059.24	-8,236.74	781.28	8,240.98	0.00	0.00	0.00	
17,400.00	88.88	179.68	9,061.20	-8,336.72	781.83	8,340.96	0.00	0.00	0.00	
17,500.00	88.88	179.68	9,063.16	-8,436.70	782.39	8,440.94	0.00	0.00	0.00	
17,600.00	88.88	179.68	9,065.12	-8,536.68	782.95	8,540.92	0.00	0.00	0.00	
17,700.00	88.88	179.68	9,067.08	-8,636.66	783.50	8,640.90	0.00	0.00	0.00	
17,800.00	88.88	179.68	9,069.04	-8,736.64	784.06	8,740.88	0.00	0.00	0.00	
17,900.00	88.88	179.68	9,070.99	-8,836.62	784.62	8,840.86	0.00	0.00	0.00	
18,000.00	88.88	179.68	9,072.95	-8,936.60	785.17	8,940.84	0.00	0.00	0.00	
18,100.00	88.88	179.68	9,074.91	-9,036.58	785.73	9,040.83	0.00	0.00	0.00	
18,200.00	88.88	179.68	9,076.87	-9,136.56	786.29	9,140.81	0.00	0.00	0.00	
18,300.00	88.88	179.68	9,078.83	-9,236.54	786.84	9,240.79	0.00	0.00	0.00	
18,400.00	88.88	179.68	9,080.79	-9,336.52	787.40	9,340.77	0.00	0.00	0.00	
18,500.00	88.88	179.68	9,082.75	-9,436.50	787.96	9,440.75	0.00	0.00	0.00	
18,600.00	88.88	179.68	9,084.71	-9,536.47	788.51	9,540.73	0.00	0.00	0.00	
18,700.00	88.88	179.68	9,086.67	-9,636.45	789.07	9,640.71	0.00	0.00	0.00	
18,800.00	88.88	179.68	9,088.63	-9,736.43	789.63	9,740.69	0.00	0.00	0.00	
18,900.00	88.88	179.68	9,090.59	-9,836.41	790.18	9,840.67	0.00	0.00	0.00	
19,000.00	88.88	179.68	9,092.54	-9,936.39	790.74	9,940.65	0.00	0.00	0.00	
19,100.00	88.88	179.68	9,094.50	-10,036.37	791.30	10,040.63	0.00	0.00	0.00	
19,200.00	88.88	179.68	9,096.46	-10,136.35	791.85	10,140.61	0.00	0.00	0.00	
19,300.00	88.88	179.68	9,098.42	-10,236.33	792.41	10,240.60	0.00	0.00	0.00	
19,400.00	88.88	179.68	9,100.38	-10,336.31	792.97	10,340.58	0.00	0.00	0.00	
19,500.00	88.88	179.68	9,102.34	-10,436.29	793.52	10,440.56	0.00	0.00	0.00	
19,600.00	88.88	179.68	9,104.30	-10,536.27	794.08	10,540.54	0.00	0.00	0.00	
19,691.91	88.88	179.68	9,106.10	-10,628.16	794.59	10,632.43	0.00	0.00	0.00	
TD at 19691.91										

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	0.01	8,902.10	-217.45	736.63	617,714.53	742,446.86	2° 41' 47.170092 N	3° 40' 46.504852 W	
BHL - Bel-Air 5-8 Fed - plan hits target center - Point	0.00	0.01	9,106.10	-10,628.16	794.59	607,303.82	742,504.82	32° 40' 4.155727 N	3° 40' 46.577207 W	



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Bel-Air 5-8 Fed 1BS Com 4H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3751.60usft (Scandriil Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3751.60usft (Scandriil Star)
Site:	Bel-Air 5-8 Fed	North Reference:	Grid
Well:	Bel-Air 5-8 Fed 1BS Com 4H	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 (°)	
1,431.60	1,431.60	Rustler		1.120	179.68	
1,771.66	1,771.56	Salado		1.120	179.68	
3,342.43	3,324.65	Yates		1.120	179.68	
3,610.38	3,589.31	7 Rivers		1.120	179.68	
5,572.04	5,526.79	Capitan Reef		1.120	179.68	
8,240.97	8,179.95	Queen		1.120	179.68	

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	
2,050.23	2,048.38	15.00	31.96	Hold 9.00° Inc at 64.86° Azm	
6,550.56	6,493.25	314.27	669.58	Begin 1.00°/100' Drop	
7,451.02	7,390.00	344.27	733.50	Begin Vertical Hold	
8,390.27	8,329.25	344.27	733.50	KOP2, Begin 10.00°/100' Build	
9,279.04	8,902.10	-217.45	736.63	LP, Hold 88.88° Inc at 179.68° Azm	
19,691.91	9,106.10	-10,628.16	794.59	TD at 19691.91	

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		O-32-18S-33E	125 FSL,1655 FEL	1250	1650	6000
Bel-Air 5-8 Fed 1BS Com 4H	30-025-50977	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		09/01/2022	09/28/2022	12/01/2022	12/20/2022	12/25/2022
Bel-Air 5-8 Fed 2BS Com 4H	30-025-50977	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.

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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 19.15.27.8NMAC.

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.

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: 4H

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_4H_CORBIN_BS_APD_C102_07212022_20220810084642.pdf
 BEL_AIR_5_8_FED_1BS_COM_4H_TONTO_BS_APD_C102_07212022_20220810084642.pdf

Well work start Date: 12/01/2022

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

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	165 5	FEL	18S	33E	32	Aliquot SWSE	32.69704 63	- 103.6819 748	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	372 4	0	0	N
KOP Leg #1	125	FSL	165 5	FEL	18S	33E	32	Aliquot SWSE	32.69704 63	- 103.6819 748	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 460 5	839 0	832 9	N

Operator Name: EARTHSTONE OPERATING LLC

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

Well Number: 4H

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	920	FEL	19S	33E	5	Lot 1	32.6964361	-103.6795847	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0077002	-5178	9279	8902	Y
PPP Leg #1-2	2579	FSL	920	FEL	19S	33E	8	Aliquot NESE	32.674634	-103.679686	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0369153	-5333	17200	9057	Y
EXIT Leg #1	100	FSL	920	FEL	19S	33E	8	Aliquot SESE	32.667821	-103.6796043	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0667752	-5382	19691	9106	Y
BHL Leg #1	100	FSL	920	FEL	19S	33E	8	Aliquot SESE	32.667821	-103.6796043	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0667752	-5382	19691	9106	Y



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

Drilling Plan Data Report

12/22/2022

APD ID: 10400087255

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: 4H

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
9015683	RUSTLER	3725	1512	1512	ANHYDRITE	USEABLE WATER	N
9015684	SALADO	1933	1792	1792	SALT	NONE	N
9015686	YATES	528	3197	3197	ANHYDRITE, DOLOMITE	NATURAL GAS, OIL	N
9015687	CAPITAN REEF	-16	3741	3741	DOLOMITE, LIMESTONE	NONE	N
9015685	SEVEN RIVERS	-20	3745	3745	ANHYDRITE, DOLOMITE	NONE	N
9015688	CHERRY CANYON	-1398	5123	5123	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
9015689	BRUSHY CANYON	-2222	5947	5947	LIMESTONE, SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
9015690	BONE SPRING LIME	-3787	7512	7512	LIMESTONE, SHALE	NATURAL GAS, OIL	N
9015693	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 173724

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 173724
	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