

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM0629320

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EARTHSTONE OPERATING LLC

3a. Address 1400 WOODLOCH FOREST DRIVE SUITE 300,

3b. Phone No. (include area code)
(281) 298-4240

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC 30/T26S/R35E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. LOS VAQUEROS FED/432H

9. API Well No. 3002549577

10. Field and Pool or Exploratory Area

WC-025 G-09 S263619C;/WOLFCAMP

11. Country or Parish, State

LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

API: 30-025-49577

Well Name Change

From: Los Vaqueros Fed 432H

To: Los Vaqueros Fed 462H

Surface Hole Location

From: C-30-26S-35E; 211' FNL, 2051' FWL

To: C-30-26S-35E; 211' FNL, 2061' FWL

First Take Point

From: C-30-26S-35E; 100 FNL, 2640' FWL

To: C-30-26S-35E; 100 FNL, 2310' FWL

BHL Change

From: Lot 3-31-26S-35E; 10' FSL & 1914' FWL, Lea County, NM

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

JENNIFER ELROD / Ph: (817) 953-3728

Senior Regulatory Technician

Title

Signature

Date

04/18/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Title

08/04/2023

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

Office CARLSBAD

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

To: 50'FSL, 326' FWL; Sect. 25, Loving County, TX

Depth Changes

From: 20,286'MD/12,767'TVD

To: 24,286'MD/12,801' TVD

Drilling Plan revised to support Depth Changes

Location of Well

0. SHL: NENW / 211 FNL / 2051 FWL / TWSP: 26S / RANGE: 35E / SECTION: 30 / LAT: 32.0209796 / LONG: -103.4085021 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 2640 FWL / TWSP: 26S / RANGE: 35E / SECTION: 30 / LAT: 32.0212828 / LONG: -103.4066013 (TVD: 12518 feet, MD: 12550 feet)

BHL: LOT 3 / 10 FSL / 2640 FWL / TWSP: 26S / RANGE: 35E / SECTION: 31 / LAT: 32.0003172 / LONG: -103.4066014 (TVD: 12767 feet, MD: 20286 feet)

CONFIDENTIAL

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 NUMBER, SHL, FTP, SLC

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-49577	2 Pool Code 96776	3 Pool Name JABALINA; WOLFCAMP, SOUTHWEST
4 Property Code 331213	5 Property Name LOS VAQUEROS FED	6 Well Number 462H
7 OGRID No. 331165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3183.29'

¹⁰ Surface Location

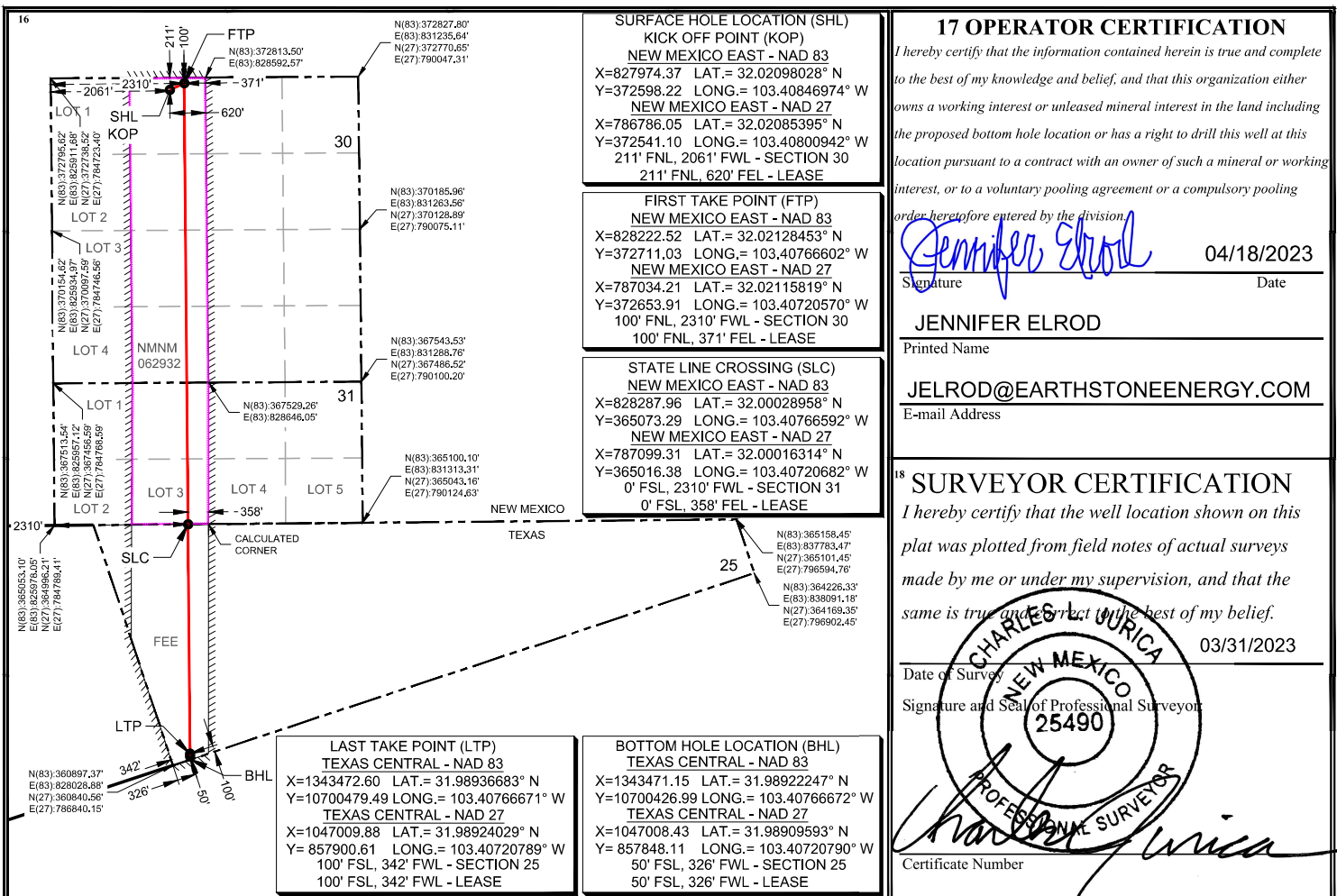
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	26-S	35-E		211'	NORTH	2061'	WEST	LEA

¹¹ State Line Crossing 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
3	31	26-S	35-E		0	SOUTH	2310'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
240 234.28	Y		

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.

***BHL & LTP WILL BE IN TEXAS**

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 462H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 462H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Los Vaqueros Fed Pad					
Site Position:		Northing:	372,540.36 usft	Latitude:	32° 1' 15.08 N	
From:	Map	Easting:	786,686.05 usft	Longitude:	103° 24' 30.00 W	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	Los Vaqueros Fed 462H					
Well Position	+N/-S	0.74 usft	Northing:	372,541.10 usft	Latitude:	32° 1' 15.07 N
	+E/-W	100.00 usft	Easting:	786,786.05 usft	Longitude:	103° 24' 28.83 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,183.29 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	5/13/2023	6.20	59.55	47,224.20000000

Design	Plan #1			
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	179.51

Plan Survey Tool Program	Date	4/13/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	24,286.70 Plan #1 (OH)	OWSG_Rev2_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	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	8.00	45.70	2,998.70	19.47	19.95	2.00	2.00	0.00	45.70	
4,255.82	8.00	45.70	4,242.30	141.53	145.05	0.00	0.00	0.00	0.00	
4,655.82	0.00	0.00	4,641.00	161.00	165.00	2.00	-2.00	0.00	180.00	
12,242.86	0.00	0.00	12,228.04	161.00	165.00	0.00	0.00	0.00	0.00	
13,142.86	90.00	173.10	12,801.00	-407.81	233.83	10.00	10.00	0.00	173.10	
13,463.27	90.00	179.51	12,801.00	-727.39	254.48	2.00	0.00	2.00	90.00	
24,286.95	90.00	179.51	12,801.00	-11,550.67	347.37	0.00	0.00	0.00	0.00	PBHL (LV Fed 462H)

Planning Report

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Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 462H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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
SHL (LV Fed 462H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,045.79	0.00	0.00	1,045.79	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,480.79	0.00	0.00	1,480.79	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	2.00	45.70	2,699.98	1.22	1.25	-1.21	2.00	2.00	0.00
2,800.00	4.00	45.70	2,799.84	4.87	4.99	-4.83	2.00	2.00	0.00
2,900.00	6.00	45.70	2,899.45	10.96	11.23	-10.86	2.00	2.00	0.00
3,000.00	8.00	45.70	2,998.70	19.47	19.95	-19.30	2.00	2.00	0.00
3,100.00	8.00	45.70	3,097.73	29.19	29.92	-28.93	0.00	0.00	0.00
3,200.00	8.00	45.70	3,196.76	38.91	39.88	-38.57	0.00	0.00	0.00
3,300.00	8.00	45.70	3,295.78	48.63	49.84	-48.20	0.00	0.00	0.00
3,400.00	8.00	45.70	3,394.81	58.35	59.80	-57.83	0.00	0.00	0.00
3,500.00	8.00	45.70	3,493.84	68.07	69.76	-67.47	0.00	0.00	0.00
3,600.00	8.00	45.70	3,592.86	77.79	79.72	-77.10	0.00	0.00	0.00
3,700.00	8.00	45.70	3,691.89	87.51	89.68	-86.74	0.00	0.00	0.00
3,800.00	8.00	45.70	3,790.92	97.23	99.64	-96.37	0.00	0.00	0.00
3,900.00	8.00	45.70	3,889.94	106.95	109.60	-106.00	0.00	0.00	0.00
4,000.00	8.00	45.70	3,988.97	116.67	119.56	-115.64	0.00	0.00	0.00
4,100.00	8.00	45.70	4,088.00	126.38	129.52	-125.27	0.00	0.00	0.00
4,200.00	8.00	45.70	4,187.02	136.10	139.49	-134.91	0.00	0.00	0.00
4,255.82	8.00	45.70	4,242.30	141.53	145.05	-140.28	0.00	0.00	0.00
4,300.00	7.12	45.70	4,286.10	145.59	149.20	-144.31	2.00	-2.00	0.00
4,400.00	5.12	45.70	4,385.52	153.03	156.83	-151.68	2.00	-2.00	0.00
4,500.00	3.12	45.70	4,485.26	158.04	161.97	-156.65	2.00	-2.00	0.00
4,600.00	1.12	45.70	4,585.19	160.62	164.61	-159.21	2.00	-2.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 462H
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Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 462H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)	
4,655.82	0.00	0.00	4,641.00	161.00	165.00	-159.58	2.00	-2.00	0.00	
4,700.00	0.00	0.00	4,685.18	161.00	165.00	-159.58	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,785.18	161.00	165.00	-159.58	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,885.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,985.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,065.61	0.00	0.00	5,050.79	161.00	165.00	-159.58	0.00	0.00	0.00	
Base Salt										
5,100.00	0.00	0.00	5,085.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,185.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,285.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,375.61	0.00	0.00	5,360.79	161.00	165.00	-159.58	0.00	0.00	0.00	
Lamar										
5,390.61	0.00	0.00	5,375.79	161.00	165.00	-159.58	0.00	0.00	0.00	
Bell Canyon										
5,400.00	0.00	0.00	5,385.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,485.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,585.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,685.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,785.18	161.00	165.00	-159.58	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,885.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,985.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,085.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,185.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,285.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,385.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,400.61	0.00	0.00	6,385.79	161.00	165.00	-159.58	0.00	0.00	0.00	
Cherry Canyon										
6,500.00	0.00	0.00	6,485.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,585.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,685.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,785.18	161.00	165.00	-159.58	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,885.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,985.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,085.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,185.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,285.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,385.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,485.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,585.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,685.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,785.18	161.00	165.00	-159.58	0.00	0.00	0.00	
7,885.61	0.00	0.00	7,870.79	161.00	165.00	-159.58	0.00	0.00	0.00	
Brushy Canyon										
7,900.00	0.00	0.00	7,885.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,985.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,085.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,185.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,285.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,385.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,485.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,585.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,685.18	161.00	165.00	-159.58	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,785.18	161.00	165.00	-159.58	0.00	0.00	0.00	

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 462H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 462H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
8,900.00	0.00	0.00	8,885.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,000.00	0.00	0.00	8,985.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,100.00	0.00	0.00	9,085.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,200.00	0.00	0.00	9,185.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,300.00	0.00	0.00	9,285.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,300.61	0.00	0.00	9,285.79	161.00	165.00	-159.58	0.00	0.00	0.00
Top BSPG Lime									
9,400.00	0.00	0.00	9,385.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,500.00	0.00	0.00	9,485.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,600.00	0.00	0.00	9,585.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,700.00	0.00	0.00	9,685.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,800.00	0.00	0.00	9,785.18	161.00	165.00	-159.58	0.00	0.00	0.00
9,900.00	0.00	0.00	9,885.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,000.00	0.00	0.00	9,985.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,100.00	0.00	0.00	10,085.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,200.00	0.00	0.00	10,185.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,300.00	0.00	0.00	10,285.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,400.00	0.00	0.00	10,385.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,500.00	0.00	0.00	10,485.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,575.61	0.00	0.00	10,560.79	161.00	165.00	-159.58	0.00	0.00	0.00
1st BSPG Ss									
10,600.00	0.00	0.00	10,585.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,700.00	0.00	0.00	10,685.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,795.61	0.00	0.00	10,780.79	161.00	165.00	-159.58	0.00	0.00	0.00
2nd BSPG Carb									
10,800.00	0.00	0.00	10,785.18	161.00	165.00	-159.58	0.00	0.00	0.00
10,900.00	0.00	0.00	10,885.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,000.00	0.00	0.00	10,985.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,100.00	0.00	0.00	11,085.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,120.61	0.00	0.00	11,105.79	161.00	165.00	-159.58	0.00	0.00	0.00
2nd BSPG Ss									
11,200.00	0.00	0.00	11,185.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,300.00	0.00	0.00	11,285.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,400.00	0.00	0.00	11,385.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,500.00	0.00	0.00	11,485.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,565.61	0.00	0.00	11,550.79	161.00	165.00	-159.58	0.00	0.00	0.00
3rd BSPG Carb									
11,600.00	0.00	0.00	11,585.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,700.00	0.00	0.00	11,685.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,800.00	0.00	0.00	11,785.18	161.00	165.00	-159.58	0.00	0.00	0.00
11,900.00	0.00	0.00	11,885.18	161.00	165.00	-159.58	0.00	0.00	0.00
12,000.00	0.00	0.00	11,985.18	161.00	165.00	-159.58	0.00	0.00	0.00
12,100.00	0.00	0.00	12,085.18	161.00	165.00	-159.58	0.00	0.00	0.00
12,165.61	0.00	0.00	12,150.79	161.00	165.00	-159.58	0.00	0.00	0.00
3rd BSPG Ss									
12,200.00	0.00	0.00	12,185.18	161.00	165.00	-159.58	0.00	0.00	0.00
12,242.86	0.00	0.00	12,228.04	161.00	165.00	-159.58	0.00	0.00	0.00
12,250.00	0.71	173.10	12,235.18	160.96	165.01	-159.54	10.00	10.00	0.00
12,300.00	5.71	173.10	12,285.09	158.17	165.34	-156.75	10.00	10.00	0.00
12,350.00	10.71	173.10	12,334.56	151.08	166.20	-149.66	10.00	10.00	0.00
12,400.00	15.71	173.10	12,383.22	139.74	167.57	-138.30	10.00	10.00	0.00
12,450.00	20.71	173.10	12,430.70	124.23	169.45	-122.78	10.00	10.00	0.00
12,500.00	25.71	173.10	12,476.64	104.67	171.82	-103.20	10.00	10.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 462H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 462H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
12,550.00	30.71	173.10	12,520.68	81.21	174.66	-79.71	10.00	10.00	0.00
12,597.90	35.50	173.10	12,560.79	55.24	177.80	-53.72	10.00	10.00	0.00
Wolfcamp									
12,600.00	35.71	173.10	12,562.50	54.03	177.94	-52.51	10.00	10.00	0.00
12,650.00	40.71	173.10	12,601.77	23.33	181.66	-21.78	10.00	10.00	0.00
12,700.00	45.71	173.10	12,638.20	-10.64	185.77	12.23	10.00	10.00	0.00
12,722.69	47.98	173.10	12,653.72	-27.08	187.76	28.68	10.00	10.00	0.00
FTP (LV Fed 462H)									
12,750.00	50.71	173.10	12,671.51	-47.64	190.25	49.27	10.00	10.00	0.00
12,800.00	55.71	173.10	12,701.44	-87.39	195.06	89.05	10.00	10.00	0.00
12,850.00	60.71	173.10	12,727.77	-129.57	200.16	131.27	10.00	10.00	0.00
12,900.00	65.71	173.10	12,750.29	-173.86	205.52	175.61	10.00	10.00	0.00
12,950.00	70.71	173.10	12,768.85	-219.94	211.10	221.74	10.00	10.00	0.00
13,000.00	75.71	173.10	12,783.28	-267.45	216.85	269.29	10.00	10.00	0.00
13,050.00	80.71	173.10	12,793.49	-316.03	222.73	317.92	10.00	10.00	0.00
13,100.00	85.71	173.10	12,799.40	-365.30	228.69	367.24	10.00	10.00	0.00
13,127.43	88.46	173.10	12,800.79	-392.49	231.98	394.46	10.00	10.00	0.00
Target LP									
13,142.86	90.00	173.10	12,801.00	-407.81	233.83	409.79	10.00	10.00	0.00
13,200.00	90.00	174.24	12,801.00	-464.60	240.13	466.64	2.00	0.00	2.00
13,300.00	90.00	176.24	12,801.00	-564.25	248.42	566.36	2.00	0.00	2.00
13,400.00	90.00	178.24	12,801.00	-664.13	253.23	666.27	2.00	0.00	2.00
13,463.27	90.00	179.51	12,801.00	-727.39	254.48	729.54	2.00	0.00	2.00
13,500.00	90.00	179.51	12,801.00	-764.12	254.79	766.27	0.00	0.00	0.00
13,600.00	90.00	179.51	12,801.00	-864.11	255.65	866.27	0.00	0.00	0.00
13,700.00	90.00	179.51	12,801.00	-964.11	256.51	966.27	0.00	0.00	0.00
13,800.00	90.00	179.51	12,801.00	-1,064.10	257.37	1,066.27	0.00	0.00	0.00
13,900.00	90.00	179.51	12,801.00	-1,164.10	258.22	1,166.27	0.00	0.00	0.00
14,000.00	90.00	179.51	12,801.00	-1,264.10	259.08	1,266.27	0.00	0.00	0.00
14,100.00	90.00	179.51	12,801.00	-1,364.09	259.94	1,366.27	0.00	0.00	0.00
14,200.00	90.00	179.51	12,801.00	-1,464.09	260.80	1,466.27	0.00	0.00	0.00
14,300.00	90.00	179.51	12,801.00	-1,564.09	261.66	1,566.27	0.00	0.00	0.00
14,400.00	90.00	179.51	12,801.00	-1,664.08	262.52	1,666.27	0.00	0.00	0.00
14,500.00	90.00	179.51	12,801.00	-1,764.08	263.37	1,766.27	0.00	0.00	0.00
14,600.00	90.00	179.51	12,801.00	-1,864.08	264.23	1,866.27	0.00	0.00	0.00
14,700.00	90.00	179.51	12,801.00	-1,964.07	265.09	1,966.27	0.00	0.00	0.00
14,800.00	90.00	179.51	12,801.00	-2,064.07	265.95	2,066.27	0.00	0.00	0.00
14,900.00	90.00	179.51	12,801.00	-2,164.06	266.81	2,166.27	0.00	0.00	0.00
15,000.00	90.00	179.51	12,801.00	-2,264.06	267.66	2,266.27	0.00	0.00	0.00
15,100.00	90.00	179.51	12,801.00	-2,364.06	268.52	2,366.27	0.00	0.00	0.00
15,200.00	90.00	179.51	12,801.00	-2,464.05	269.38	2,466.27	0.00	0.00	0.00
15,300.00	90.00	179.51	12,801.00	-2,564.05	270.24	2,566.27	0.00	0.00	0.00
15,400.00	90.00	179.51	12,801.00	-2,664.05	271.10	2,666.27	0.00	0.00	0.00
15,500.00	90.00	179.51	12,801.00	-2,764.04	271.96	2,766.27	0.00	0.00	0.00
15,600.00	90.00	179.51	12,801.00	-2,864.04	272.81	2,866.27	0.00	0.00	0.00
15,700.00	90.00	179.51	12,801.00	-2,964.03	273.67	2,966.27	0.00	0.00	0.00
15,800.00	90.00	179.51	12,801.00	-3,064.03	274.53	3,066.27	0.00	0.00	0.00
15,900.00	90.00	179.51	12,801.00	-3,164.03	275.39	3,166.27	0.00	0.00	0.00
16,000.00	90.00	179.51	12,801.00	-3,264.02	276.25	3,266.27	0.00	0.00	0.00
16,100.00	90.00	179.51	12,801.00	-3,364.02	277.11	3,366.27	0.00	0.00	0.00
16,200.00	90.00	179.51	12,801.00	-3,464.02	277.96	3,466.27	0.00	0.00	0.00
16,300.00	90.00	179.51	12,801.00	-3,564.01	278.82	3,566.27	0.00	0.00	0.00
16,400.00	90.00	179.51	12,801.00	-3,664.01	279.68	3,666.27	0.00	0.00	0.00

Planning Report

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Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
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Design:	Plan #1		

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)	
16,500.00	90.00	179.51	12,801.00	-3,764.01	280.54	3,766.27	0.00	0.00	0.00	
16,600.00	90.00	179.51	12,801.00	-3,864.00	281.40	3,866.27	0.00	0.00	0.00	
16,700.00	90.00	179.51	12,801.00	-3,964.00	282.25	3,966.27	0.00	0.00	0.00	
16,800.00	90.00	179.51	12,801.00	-4,063.99	283.11	4,066.27	0.00	0.00	0.00	
16,900.00	90.00	179.51	12,801.00	-4,163.99	283.97	4,166.27	0.00	0.00	0.00	
17,000.00	90.00	179.51	12,801.00	-4,263.99	284.83	4,266.27	0.00	0.00	0.00	
17,100.00	90.00	179.51	12,801.00	-4,363.98	285.69	4,366.27	0.00	0.00	0.00	
17,200.00	90.00	179.51	12,801.00	-4,463.98	286.55	4,466.27	0.00	0.00	0.00	
17,300.00	90.00	179.51	12,801.00	-4,563.98	287.40	4,566.27	0.00	0.00	0.00	
17,400.00	90.00	179.51	12,801.00	-4,663.97	288.26	4,666.27	0.00	0.00	0.00	
17,500.00	90.00	179.51	12,801.00	-4,763.97	289.12	4,766.27	0.00	0.00	0.00	
17,600.00	90.00	179.51	12,801.00	-4,863.96	289.98	4,866.27	0.00	0.00	0.00	
17,700.00	90.00	179.51	12,801.00	-4,963.96	290.84	4,966.27	0.00	0.00	0.00	
17,800.00	90.00	179.51	12,801.00	-5,063.96	291.69	5,066.27	0.00	0.00	0.00	
17,900.00	90.00	179.51	12,801.00	-5,163.95	292.55	5,166.27	0.00	0.00	0.00	
18,000.00	90.00	179.51	12,801.00	-5,263.95	293.41	5,266.27	0.00	0.00	0.00	
18,100.00	90.00	179.51	12,801.00	-5,363.95	294.27	5,366.27	0.00	0.00	0.00	
18,200.00	90.00	179.51	12,801.00	-5,463.94	295.13	5,466.27	0.00	0.00	0.00	
18,300.00	90.00	179.51	12,801.00	-5,563.94	295.99	5,566.27	0.00	0.00	0.00	
18,400.00	90.00	179.51	12,801.00	-5,663.94	296.84	5,666.27	0.00	0.00	0.00	
18,500.00	90.00	179.51	12,801.00	-5,763.93	297.70	5,766.27	0.00	0.00	0.00	
18,600.00	90.00	179.51	12,801.00	-5,863.93	298.56	5,866.27	0.00	0.00	0.00	
18,700.00	90.00	179.51	12,801.00	-5,963.92	299.42	5,966.27	0.00	0.00	0.00	
18,800.00	90.00	179.51	12,801.00	-6,063.92	300.28	6,066.27	0.00	0.00	0.00	
18,900.00	90.00	179.51	12,801.00	-6,163.92	301.13	6,166.27	0.00	0.00	0.00	
19,000.00	90.00	179.51	12,801.00	-6,263.91	301.99	6,266.27	0.00	0.00	0.00	
19,100.00	90.00	179.51	12,801.00	-6,363.91	302.85	6,366.27	0.00	0.00	0.00	
19,200.00	90.00	179.51	12,801.00	-6,463.91	303.71	6,466.27	0.00	0.00	0.00	
19,300.00	90.00	179.51	12,801.00	-6,563.90	304.57	6,566.27	0.00	0.00	0.00	
19,400.00	90.00	179.51	12,801.00	-6,663.90	305.43	6,666.27	0.00	0.00	0.00	
19,500.00	90.00	179.51	12,801.00	-6,763.89	306.28	6,766.27	0.00	0.00	0.00	
19,600.00	90.00	179.51	12,801.00	-6,863.89	307.14	6,866.27	0.00	0.00	0.00	
19,700.00	90.00	179.51	12,801.00	-6,963.89	308.00	6,966.27	0.00	0.00	0.00	
19,800.00	90.00	179.51	12,801.00	-7,063.88	308.86	7,066.27	0.00	0.00	0.00	
19,900.00	90.00	179.51	12,801.00	-7,163.88	309.72	7,166.27	0.00	0.00	0.00	
20,000.00	90.00	179.51	12,801.00	-7,263.88	310.58	7,266.27	0.00	0.00	0.00	
20,100.00	90.00	179.51	12,801.00	-7,363.87	311.43	7,366.27	0.00	0.00	0.00	
20,200.00	90.00	179.51	12,801.00	-7,463.87	312.29	7,466.27	0.00	0.00	0.00	
20,260.86	90.00	179.51	12,801.00	-7,524.72	312.81	7,527.12	0.00	0.00	0.00	
SLC (LV Fed 462H)										
20,300.00	90.00	179.51	12,801.00	-7,563.87	313.15	7,566.27	0.00	0.00	0.00	
20,400.00	90.00	179.51	12,801.00	-7,663.86	314.01	7,666.27	0.00	0.00	0.00	
20,500.00	90.00	179.51	12,801.00	-7,763.86	314.87	7,766.27	0.00	0.00	0.00	
20,600.00	90.00	179.51	12,801.00	-7,863.85	315.72	7,866.27	0.00	0.00	0.00	
20,700.00	90.00	179.51	12,801.00	-7,963.85	316.58	7,966.27	0.00	0.00	0.00	
20,800.00	90.00	179.51	12,801.00	-8,063.85	317.44	8,066.27	0.00	0.00	0.00	
20,900.00	90.00	179.51	12,801.00	-8,163.84	318.30	8,166.27	0.00	0.00	0.00	
21,000.00	90.00	179.51	12,801.00	-8,263.84	319.16	8,266.27	0.00	0.00	0.00	
21,100.00	90.00	179.51	12,801.00	-8,363.84	320.02	8,366.27	0.00	0.00	0.00	
21,200.00	90.00	179.51	12,801.00	-8,463.83	320.87	8,466.27	0.00	0.00	0.00	
21,300.00	90.00	179.51	12,801.00	-8,563.83	321.73	8,566.27	0.00	0.00	0.00	
21,400.00	90.00	179.51	12,801.00	-8,663.82	322.59	8,666.27	0.00	0.00	0.00	
21,500.00	90.00	179.51	12,801.00	-8,763.82	323.45	8,766.27	0.00	0.00	0.00	
21,600.00	90.00	179.51	12,801.00	-8,863.82	324.31	8,866.27	0.00	0.00	0.00	

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 462H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.29' + KB 27.5' @ 3210.79usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 462H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)	
21,700.00	90.00	179.51	12,801.00	-8,963.81	325.16	8,966.27	0.00	0.00	0.00	
21,800.00	90.00	179.51	12,801.00	-9,063.81	326.02	9,066.27	0.00	0.00	0.00	
21,900.00	90.00	179.51	12,801.00	-9,163.81	326.88	9,166.27	0.00	0.00	0.00	
22,000.00	90.00	179.51	12,801.00	-9,263.80	327.74	9,266.27	0.00	0.00	0.00	
22,100.00	90.00	179.51	12,801.00	-9,363.80	328.60	9,366.27	0.00	0.00	0.00	
22,200.00	90.00	179.51	12,801.00	-9,463.80	329.46	9,466.27	0.00	0.00	0.00	
22,300.00	90.00	179.51	12,801.00	-9,563.79	330.31	9,566.27	0.00	0.00	0.00	
22,400.00	90.00	179.51	12,801.00	-9,663.79	331.17	9,666.27	0.00	0.00	0.00	
22,500.00	90.00	179.51	12,801.00	-9,763.78	332.03	9,766.27	0.00	0.00	0.00	
22,600.00	90.00	179.51	12,801.00	-9,863.78	332.89	9,866.27	0.00	0.00	0.00	
22,700.00	90.00	179.51	12,801.00	-9,963.78	333.75	9,966.27	0.00	0.00	0.00	
22,800.00	90.00	179.51	12,801.00	-10,063.77	334.60	10,066.27	0.00	0.00	0.00	
22,900.00	90.00	179.51	12,801.00	-10,163.77	335.46	10,166.27	0.00	0.00	0.00	
23,000.00	90.00	179.51	12,801.00	-10,263.77	336.32	10,266.27	0.00	0.00	0.00	
23,100.00	90.00	179.51	12,801.00	-10,363.76	337.18	10,366.27	0.00	0.00	0.00	
23,200.00	90.00	179.51	12,801.00	-10,463.76	338.04	10,466.27	0.00	0.00	0.00	
23,300.00	90.00	179.51	12,801.00	-10,563.75	338.90	10,566.27	0.00	0.00	0.00	
23,400.00	90.00	179.51	12,801.00	-10,663.75	339.75	10,666.27	0.00	0.00	0.00	
23,500.00	90.00	179.51	12,801.00	-10,763.75	340.61	10,766.27	0.00	0.00	0.00	
23,600.00	90.00	179.51	12,801.00	-10,863.74	341.47	10,866.27	0.00	0.00	0.00	
23,700.00	90.00	179.51	12,801.00	-10,963.74	342.33	10,966.27	0.00	0.00	0.00	
23,800.00	90.00	179.51	12,801.00	-11,063.74	343.19	11,066.27	0.00	0.00	0.00	
23,900.00	90.00	179.51	12,801.00	-11,163.73	344.05	11,166.27	0.00	0.00	0.00	
24,000.00	90.00	179.51	12,801.00	-11,263.73	344.90	11,266.27	0.00	0.00	0.00	
24,100.00	90.00	179.51	12,801.00	-11,363.73	345.76	11,366.27	0.00	0.00	0.00	
24,200.00	90.00	179.51	12,801.00	-11,463.72	346.62	11,466.27	0.00	0.00	0.00	
LTP (LV Fed 462H)										
24,286.95	90.00	179.51	12,801.00	-11,550.67	347.37	11,553.22	0.00	0.00	0.00	
PBHL (LV Fed 462H)										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,045.79	1,045.79	Rustler				
1,480.79	1,480.79	Salado				
5,065.61	5,050.79	Base Salt				
5,375.61	5,360.79	Lamar				
5,390.61	5,375.79	Bell Canyon				
6,400.61	6,385.79	Cherry Canyon				
7,885.61	7,870.79	Brushy Canyon				
9,300.61	9,285.79	Top BSPG Lime				
10,575.61	10,560.79	1st BSPG Ss				
10,795.61	10,780.79	2nd BSPG Carb				
11,120.61	11,105.79	2nd BSPG Ss				
11,565.61	11,550.79	3rd BSPG Carb				
12,165.61	12,150.79	3rd BSPG Ss				
12,597.90	12,560.79	Wolfcamp				
13,127.43	12,800.79	Target LP				

API: 30-025-49577

Well Name Change

From: Los Vaqueros Fed 432H

To: Los Vaqueros Fed 462H

Surface Hole Location

From: C-30-26S-35E; 211' FNL, 2051' FWL

To: C-30-26S-35E; 211' FNL, 2061' FWL

First Take Point

From: C-30-26S-35E; 100 FNL, 2640' FWL

To: C-30-26S-35E; 100 FNL, 2310' FWL

BHL Change

From: Lot 3-31-26S-35E; 10' FSL & 1914' FWL, Lea County, NM

To: 50'FSL, 326' FWL; Sect. 25, Loving County, TX

Depth Changes

From: 20,286'MD/12,767'TVD

To: 24,286'MD/12,801' TVD

Drilling Plan revised to support Depth Changes

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 249148

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 249148
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Must comply with the MEMORANDUM OF AGREEMENT ("MOA") between the OIL CONSERVATION DIVISION of the STATE OF NEW MEXICO, ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT and the OIL AND GAS DIVISION of the RAILROAD COMMISSION OF TEXAS.	10/2/2023