

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) 298-42404. 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/512H

9. API Well No. 3002549579

10. Field and Pool or Exploratory Area
.WC-025 G-09 S263619C;WOLFCAMP11. 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: 30-025-49579

Well Name Change

From: Los Vaqueros Fed 512H

To: Los Vaqueros Fed 301H

Pool Change

From: (96776) Jabalina; Wolfcamp, Southwest

To: (96672) WC-025 G08 S263412K; Bone Spring

First Take Point

From: C-30-26S-35E; 100 FNL, 1486 FWL

To: Lot 1-30-26S-35E; 100 FNL, 1100 FWL

BHL Change

From: Lot 3-31-26S-35E; 10' FSL & 1486' 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) 953-3728Senior 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
Title08/04/2023
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: 1161' FNL, 50' FWL; Sect. 25, Loving County, TX

Depth Changes

From: 20,665'MD/13,144'TVD

To: 20,606'MD/11,961' TVD

Location of Well

0. SHL: NENW / 211 FNL / 1961 FWL / TWSP: 26S / RANGE: 35E / SECTION: 30 / LAT: 32.0209799 / LONG: -103.4087924 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 1486 FWL / TWSP: 26S / RANGE: 35E / SECTION: 30 / LAT: 32.0212888 / LONG: -103.4103245 (TVD: 12901 feet, MD: 12925 feet)

BHL: LOT 3 / 10 FSL / 1850 FWL / TWSP: 26S / RANGE: 35E / SECTION: 31 / LAT: 32.0003166 / LONG: -103.4103238 (TVD: 13144 feet, MD: 20665 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, POOL, FTP, SLC

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-49579	2 Pool Code 96672	3 Pool Name WC-025 G08 S263412K; BONE SPRING
4 Property Code 331213	5 Property Name LOS VAQUEROS FED	6 Well Number 301H
7 OGRID No. 331165	8 Operator Name EARTHSTONE OPERATING LLC	9 Elevation 3183.18'

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	1961'	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
2	31	26-S	35E		0	SOUTH	1100'	WEST	LEA

12 Dedicated Acres 240 241.29	13 Joint or Infill Y	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.

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

	SURFACE HOLE LOCATION (SHL) KICK OFF POINT (KOP) NEW MEXICO EAST - NAD 83 X=827874.37 LAT.= 32.02098058° N Y=372597.47 LONG.= 103.40879238° W NEW MEXICO EAST - NAD 27 X=786686.05 LAT.= 32.02085425° N Y=372540.36 LONG.= 103.40833204° W 211' FNL, 1961' FWL - SECTION 30 211' FNL, 604' FEL - OFF LEASE	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. Signature Date 04/19/2023 JENNIFER ELROD Printed Name JELROD@EARTHSTONEENERGY.COM E-mail Address
	FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=827012.54 LAT.= 32.02129078° N Y=372702.96 LONG.= 103.41156993° W NEW MEXICO EAST - NAD 27 X=785824.24 LAT.= 32.02116449° N Y=372645.85 LONG.= 103.41110950° W 100' FNL, 1100' FWL - SECTION 30 100' FNL, 257' FEL - LEASE	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. Date of Survey 03/31/2023 Signature and Seal of Professional Surveyor Certificate Number
	STATE LINE CROSSING (SLC) NEW MEXICO EAST - NAD 83 X=827078.01 LAT.= 32.00028893° N Y=365062.71 LONG.= 103.41156894° W NEW MEXICO EAST - NAD 27 X=785889.36 LAT.= 32.00016253° N Y=365005.81 LONG.= 103.41110973° W 0' FSL, 1100' FWL - SECTION 31 0' FSL, 234' FEL - LEASE	LAST TAKE POINT (LTP) TEXAS CENTRAL - NAD 83 X=1342345.49 LAT.= 31.99754779° N Y=10703488.13 LONG.= 103.41156890° W TEXAS CENTRAL - NAD 27 X=1045882.84 LAT.= 31.99742136° N Y= 860909.19 LONG.= 103.41110976° W 997' FNL, 100' FWL - SECTION 25 100' FSL, 222' FEL - LEASE

Intent ☐ As Drilled ☐

API # 30-025-49579		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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 # 30-025-49217		
Operator Name: EARTHSTONE OPERATING, LLC	Property Name: LOS VAQUEROS FED	Well Number 201H

KZ 06/29/2018

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 301H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 301H	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 301H					
Well Position	+N/-S	0.00 usft	Northing:	372,540.36 usft	Latitude:	32° 1' 15.08 N
	+E/-W	0.00 usft	Easting:	786,686.05 usft	Longitude:	103° 24' 30.00 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,183.18 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	5/13/2023	6.20	59.55	47,224.50000000

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	20,606.46 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	
2,871.94	5.44	280.85	2,871.53	2.43	-12.67	2.00	2.00	0.00	280.85	
11,418.78	5.44	280.85	11,379.89	154.88	-808.28	0.00	0.00	0.00	0.00	
12,329.46	90.00	179.51	11,961.00	-418.42	-857.63	10.00	9.29	-11.13	-101.29	
20,606.46	90.00	179.51	11,961.00	-8,695.12	-786.84	0.00	0.00	0.00	0.00	PBHL (LV Fed 301H)

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 301H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 301H	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 301H)									
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
1,045.68	0.00	0.00	1,045.68	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
1,480.68	0.00	0.00	1,480.68	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	280.85	2,699.98	0.33	-1.71	-0.34	2.00	2.00	0.00
2,800.00	4.00	280.85	2,799.84	1.31	-6.85	-1.37	2.00	2.00	0.00
2,871.94	5.44	280.85	2,871.53	2.43	-12.67	-2.54	2.00	2.00	0.00
2,900.00	5.44	280.85	2,899.47	2.93	-15.28	-3.06	0.00	0.00	0.00
3,000.00	5.44	280.85	2,999.02	4.71	-24.59	-4.92	0.00	0.00	0.00
3,100.00	5.44	280.85	3,098.57	6.50	-33.90	-6.78	0.00	0.00	0.00
3,200.00	5.44	280.85	3,198.11	8.28	-43.21	-8.65	0.00	0.00	0.00
3,300.00	5.44	280.85	3,297.66	10.06	-52.51	-10.51	0.00	0.00	0.00
3,400.00	5.44	280.85	3,397.21	11.85	-61.82	-12.37	0.00	0.00	0.00
3,500.00	5.44	280.85	3,496.76	13.63	-71.13	-14.24	0.00	0.00	0.00
3,600.00	5.44	280.85	3,596.31	15.41	-80.44	-16.10	0.00	0.00	0.00
3,700.00	5.44	280.85	3,695.86	17.20	-89.75	-17.96	0.00	0.00	0.00
3,800.00	5.44	280.85	3,795.41	18.98	-99.06	-19.83	0.00	0.00	0.00
3,900.00	5.44	280.85	3,894.96	20.77	-108.37	-21.69	0.00	0.00	0.00
4,000.00	5.44	280.85	3,994.51	22.55	-117.68	-23.55	0.00	0.00	0.00
4,100.00	5.44	280.85	4,094.06	24.33	-126.99	-25.42	0.00	0.00	0.00
4,200.00	5.44	280.85	4,193.61	26.12	-136.29	-27.28	0.00	0.00	0.00
4,300.00	5.44	280.85	4,293.16	27.90	-145.60	-29.14	0.00	0.00	0.00
4,400.00	5.44	280.85	4,392.71	29.68	-154.91	-31.01	0.00	0.00	0.00
4,500.00	5.44	280.85	4,492.26	31.47	-164.22	-32.87	0.00	0.00	0.00
4,600.00	5.44	280.85	4,591.81	33.25	-173.53	-34.73	0.00	0.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 301H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 301H	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)
4,700.00	5.44	280.85	4,691.36	35.04	-182.84	-36.60	0.00	0.00	0.00
4,800.00	5.44	280.85	4,790.91	36.82	-192.15	-38.46	0.00	0.00	0.00
4,900.00	5.44	280.85	4,890.46	38.60	-201.46	-40.32	0.00	0.00	0.00
5,000.00	5.44	280.85	4,990.01	40.39	-210.76	-42.19	0.00	0.00	0.00
5,060.94	5.44	280.85	5,050.68	41.47	-216.44	-43.32	0.00	0.00	0.00
Base Salt									
5,100.00	5.44	280.85	5,089.56	42.17	-220.07	-44.05	0.00	0.00	0.00
5,200.00	5.44	280.85	5,189.11	43.95	-229.38	-45.91	0.00	0.00	0.00
5,300.00	5.44	280.85	5,288.66	45.74	-238.69	-47.78	0.00	0.00	0.00
5,372.35	5.44	280.85	5,360.68	47.03	-245.43	-49.13	0.00	0.00	0.00
Lamar									
5,387.41	5.44	280.85	5,375.68	47.30	-246.83	-49.41	0.00	0.00	0.00
Bell Canyon									
5,400.00	5.44	280.85	5,388.21	47.52	-248.00	-49.64	0.00	0.00	0.00
5,500.00	5.44	280.85	5,487.76	49.30	-257.31	-51.50	0.00	0.00	0.00
5,600.00	5.44	280.85	5,587.31	51.09	-266.62	-53.37	0.00	0.00	0.00
5,700.00	5.44	280.85	5,686.86	52.87	-275.93	-55.23	0.00	0.00	0.00
5,800.00	5.44	280.85	5,786.41	54.66	-285.24	-57.09	0.00	0.00	0.00
5,900.00	5.44	280.85	5,885.96	56.44	-294.54	-58.96	0.00	0.00	0.00
6,000.00	5.44	280.85	5,985.51	58.22	-303.85	-60.82	0.00	0.00	0.00
6,100.00	5.44	280.85	6,085.06	60.01	-313.16	-62.68	0.00	0.00	0.00
6,200.00	5.44	280.85	6,184.61	61.79	-322.47	-64.55	0.00	0.00	0.00
6,300.00	5.44	280.85	6,284.16	63.57	-331.78	-66.41	0.00	0.00	0.00
6,400.00	5.44	280.85	6,383.71	65.36	-341.09	-68.27	0.00	0.00	0.00
6,401.98	5.44	280.85	6,385.68	65.39	-341.27	-68.31	0.00	0.00	0.00
Cherry Canyon									
6,500.00	5.44	280.85	6,483.26	67.14	-350.40	-70.14	0.00	0.00	0.00
6,600.00	5.44	280.85	6,582.81	68.93	-359.71	-72.00	0.00	0.00	0.00
6,700.00	5.44	280.85	6,682.36	70.71	-369.02	-73.86	0.00	0.00	0.00
6,800.00	5.44	280.85	6,781.91	72.49	-378.32	-75.73	0.00	0.00	0.00
6,900.00	5.44	280.85	6,881.46	74.28	-387.63	-77.59	0.00	0.00	0.00
7,000.00	5.44	280.85	6,981.01	76.06	-396.94	-79.45	0.00	0.00	0.00
7,100.00	5.44	280.85	7,080.56	77.84	-406.25	-81.32	0.00	0.00	0.00
7,200.00	5.44	280.85	7,180.11	79.63	-415.56	-83.18	0.00	0.00	0.00
7,300.00	5.44	280.85	7,279.66	81.41	-424.87	-85.04	0.00	0.00	0.00
7,400.00	5.44	280.85	7,379.21	83.20	-434.18	-86.91	0.00	0.00	0.00
7,500.00	5.44	280.85	7,478.76	84.98	-443.49	-88.77	0.00	0.00	0.00
7,600.00	5.44	280.85	7,578.31	86.76	-452.80	-90.63	0.00	0.00	0.00
7,700.00	5.44	280.85	7,677.86	88.55	-462.10	-92.50	0.00	0.00	0.00
7,800.00	5.44	280.85	7,777.41	90.33	-471.41	-94.36	0.00	0.00	0.00
7,893.70	5.44	280.85	7,870.68	92.00	-480.14	-96.11	0.00	0.00	0.00
Brushy Canyon									
7,900.00	5.44	280.85	7,876.96	92.11	-480.72	-96.22	0.00	0.00	0.00
8,000.00	5.44	280.85	7,976.51	93.90	-490.03	-98.09	0.00	0.00	0.00
8,100.00	5.44	280.85	8,076.06	95.68	-499.34	-99.95	0.00	0.00	0.00
8,200.00	5.44	280.85	8,175.61	97.47	-508.65	-101.81	0.00	0.00	0.00
8,300.00	5.44	280.85	8,275.16	99.25	-517.96	-103.68	0.00	0.00	0.00
8,400.00	5.44	280.85	8,374.70	101.03	-527.27	-105.54	0.00	0.00	0.00
8,500.00	5.44	280.85	8,474.25	102.82	-536.58	-107.40	0.00	0.00	0.00
8,600.00	5.44	280.85	8,573.80	104.60	-545.88	-109.27	0.00	0.00	0.00
8,700.00	5.44	280.85	8,673.35	106.38	-555.19	-111.13	0.00	0.00	0.00
8,800.00	5.44	280.85	8,772.90	108.17	-564.50	-112.99	0.00	0.00	0.00
8,900.00	5.44	280.85	8,872.45	109.95	-573.81	-114.86	0.00	0.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 301H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 301H	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)	
9,000.00	5.44	280.85	8,972.00	111.74	-583.12	-116.72	0.00	0.00	0.00	
9,100.00	5.44	280.85	9,071.55	113.52	-592.43	-118.58	0.00	0.00	0.00	
9,200.00	5.44	280.85	9,171.10	115.30	-601.74	-120.45	0.00	0.00	0.00	
9,300.00	5.44	280.85	9,270.65	117.09	-611.05	-122.31	0.00	0.00	0.00	
9,315.10	5.44	280.85	9,285.68	117.36	-612.45	-122.59	0.00	0.00	0.00	
Top BSPG Lime										
9,400.00	5.44	280.85	9,370.20	118.87	-620.35	-124.17	0.00	0.00	0.00	
9,500.00	5.44	280.85	9,469.75	120.65	-629.66	-126.04	0.00	0.00	0.00	
9,600.00	5.44	280.85	9,569.30	122.44	-638.97	-127.90	0.00	0.00	0.00	
9,700.00	5.44	280.85	9,668.85	124.22	-648.28	-129.76	0.00	0.00	0.00	
9,800.00	5.44	280.85	9,768.40	126.01	-657.59	-131.62	0.00	0.00	0.00	
9,900.00	5.44	280.85	9,867.95	127.79	-666.90	-133.49	0.00	0.00	0.00	
10,000.00	5.44	280.85	9,967.50	129.57	-676.21	-135.35	0.00	0.00	0.00	
10,100.00	5.44	280.85	10,067.05	131.36	-685.52	-137.21	0.00	0.00	0.00	
10,200.00	5.44	280.85	10,166.60	133.14	-694.83	-139.08	0.00	0.00	0.00	
10,300.00	5.44	280.85	10,266.15	134.92	-704.13	-140.94	0.00	0.00	0.00	
10,400.00	5.44	280.85	10,365.70	136.71	-713.44	-142.80	0.00	0.00	0.00	
10,500.00	5.44	280.85	10,465.25	138.49	-722.75	-144.67	0.00	0.00	0.00	
10,595.86	5.44	280.85	10,560.68	140.20	-731.68	-146.45	0.00	0.00	0.00	
1st BSPG Ss										
10,600.00	5.44	280.85	10,564.80	140.28	-732.06	-146.53	0.00	0.00	0.00	
10,700.00	5.44	280.85	10,664.35	142.06	-741.37	-148.39	0.00	0.00	0.00	
10,800.00	5.44	280.85	10,763.90	143.84	-750.68	-150.26	0.00	0.00	0.00	
10,816.86	5.44	280.85	10,780.68	144.14	-752.25	-150.57	0.00	0.00	0.00	
2nd BSPG Carb										
10,900.00	5.44	280.85	10,863.45	145.63	-759.99	-152.12	0.00	0.00	0.00	
11,000.00	5.44	280.85	10,963.00	147.41	-769.30	-153.98	0.00	0.00	0.00	
11,100.00	5.44	280.85	11,062.55	149.19	-778.61	-155.85	0.00	0.00	0.00	
11,143.33	5.44	280.85	11,105.68	149.97	-782.64	-156.65	0.00	0.00	0.00	
2nd BSPG Ss										
11,200.00	5.44	280.85	11,162.10	150.98	-787.91	-157.71	0.00	0.00	0.00	
11,300.00	5.44	280.85	11,261.65	152.76	-797.22	-159.57	0.00	0.00	0.00	
11,400.00	5.44	280.85	11,361.20	154.55	-806.53	-161.44	0.00	0.00	0.00	
11,418.78	5.44	280.85	11,379.89	154.88	-808.28	-161.79	0.00	0.00	0.00	
11,450.00	5.71	248.41	11,410.97	154.59	-811.18	-161.52	10.00	0.88	-103.91	
11,500.00	8.84	216.42	11,460.58	150.58	-815.78	-157.55	10.00	6.24	-63.97	
11,550.00	13.17	203.03	11,509.66	142.24	-820.29	-149.25	10.00	8.66	-26.78	
11,592.50	17.13	197.14	11,550.68	131.80	-824.03	-138.84	10.00	9.33	-13.87	
3rd BSPG Carb										
11,600.00	17.85	196.37	11,557.83	129.64	-824.68	-136.69	10.00	9.51	-10.30	
11,650.00	22.66	192.43	11,604.73	112.88	-828.91	-119.96	10.00	9.63	-7.87	
11,700.00	27.54	189.82	11,650.00	92.07	-832.96	-99.19	10.00	9.75	-5.21	
11,750.00	32.45	187.95	11,693.29	67.38	-836.79	-74.54	10.00	9.82	-3.74	
11,800.00	37.38	186.53	11,734.28	39.00	-840.37	-46.19	10.00	9.87	-2.85	
11,850.00	42.33	185.39	11,772.65	7.14	-843.68	-14.35	10.00	9.89	-2.27	
11,900.00	47.28	184.45	11,808.11	-27.96	-846.69	20.71	10.00	9.91	-1.88	
FTP (LV Fed 301H)										
11,950.00	52.25	183.66	11,840.40	-66.02	-849.38	58.75	10.00	9.93	-1.60	
12,000.00	57.22	182.96	11,869.26	-106.76	-851.73	99.47	10.00	9.93	-1.40	
12,050.00	62.19	182.33	11,894.48	-149.87	-853.71	142.56	10.00	9.94	-1.25	
12,100.00	67.16	181.76	11,915.86	-195.02	-855.32	187.70	10.00	9.95	-1.14	
12,150.00	72.13	181.23	11,933.25	-241.87	-856.55	234.54	10.00	9.95	-1.06	
12,200.00	77.11	180.73	11,946.50	-290.06	-857.37	282.71	10.00	9.95	-1.00	

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 301H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 301H	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)
12,250.00	82.09	180.25	11,955.52	-339.22	-857.79	331.87	10.00	9.96	-0.96
12,300.00	87.07	179.78	11,960.25	-388.98	-857.81	381.63	10.00	9.96	-0.94
12,310.26	88.09	179.69	11,960.68	-399.23	-857.76	391.88	10.00	9.96	-0.93
Target LP									
12,329.46	90.00	179.51	11,961.00	-418.42	-857.63	411.07	10.00	9.96	-0.93
12,400.00	90.00	179.51	11,961.00	-488.96	-857.02	481.62	0.00	0.00	0.00
12,500.00	90.00	179.51	11,961.00	-588.96	-856.17	581.62	0.00	0.00	0.00
12,600.00	90.00	179.51	11,961.00	-688.96	-855.31	681.62	0.00	0.00	0.00
12,700.00	90.00	179.51	11,961.00	-788.95	-854.46	781.62	0.00	0.00	0.00
12,800.00	90.00	179.51	11,961.00	-888.95	-853.60	881.62	0.00	0.00	0.00
12,900.00	90.00	179.51	11,961.00	-988.94	-852.75	981.62	0.00	0.00	0.00
13,000.00	90.00	179.51	11,961.00	-1,088.94	-851.89	1,081.62	0.00	0.00	0.00
13,100.00	90.00	179.51	11,961.00	-1,188.94	-851.04	1,181.62	0.00	0.00	0.00
13,200.00	90.00	179.51	11,961.00	-1,288.93	-850.18	1,281.62	0.00	0.00	0.00
13,300.00	90.00	179.51	11,961.00	-1,388.93	-849.33	1,381.62	0.00	0.00	0.00
13,400.00	90.00	179.51	11,961.00	-1,488.93	-848.47	1,481.62	0.00	0.00	0.00
13,500.00	90.00	179.51	11,961.00	-1,588.92	-847.62	1,581.62	0.00	0.00	0.00
13,600.00	90.00	179.51	11,961.00	-1,688.92	-846.76	1,681.62	0.00	0.00	0.00
13,700.00	90.00	179.51	11,961.00	-1,788.92	-845.91	1,781.62	0.00	0.00	0.00
13,800.00	90.00	179.51	11,961.00	-1,888.91	-845.05	1,881.62	0.00	0.00	0.00
13,900.00	90.00	179.51	11,961.00	-1,988.91	-844.20	1,981.62	0.00	0.00	0.00
14,000.00	90.00	179.51	11,961.00	-2,088.90	-843.34	2,081.62	0.00	0.00	0.00
14,100.00	90.00	179.51	11,961.00	-2,188.90	-842.49	2,181.62	0.00	0.00	0.00
14,200.00	90.00	179.51	11,961.00	-2,288.90	-841.63	2,281.62	0.00	0.00	0.00
14,300.00	90.00	179.51	11,961.00	-2,388.89	-840.77	2,381.62	0.00	0.00	0.00
14,400.00	90.00	179.51	11,961.00	-2,488.89	-839.92	2,481.62	0.00	0.00	0.00
14,500.00	90.00	179.51	11,961.00	-2,588.89	-839.06	2,581.62	0.00	0.00	0.00
14,600.00	90.00	179.51	11,961.00	-2,688.88	-838.21	2,681.62	0.00	0.00	0.00
14,700.00	90.00	179.51	11,961.00	-2,788.88	-837.35	2,781.62	0.00	0.00	0.00
14,800.00	90.00	179.51	11,961.00	-2,888.88	-836.50	2,881.62	0.00	0.00	0.00
14,900.00	90.00	179.51	11,961.00	-2,988.87	-835.64	2,981.62	0.00	0.00	0.00
15,000.00	90.00	179.51	11,961.00	-3,088.87	-834.79	3,081.62	0.00	0.00	0.00
15,100.00	90.00	179.51	11,961.00	-3,188.86	-833.93	3,181.62	0.00	0.00	0.00
15,200.00	90.00	179.51	11,961.00	-3,288.86	-833.08	3,281.62	0.00	0.00	0.00
15,300.00	90.00	179.51	11,961.00	-3,388.86	-832.22	3,381.62	0.00	0.00	0.00
15,400.00	90.00	179.51	11,961.00	-3,488.85	-831.37	3,481.62	0.00	0.00	0.00
15,500.00	90.00	179.51	11,961.00	-3,588.85	-830.51	3,581.62	0.00	0.00	0.00
15,600.00	90.00	179.51	11,961.00	-3,688.85	-829.66	3,681.62	0.00	0.00	0.00
15,700.00	90.00	179.51	11,961.00	-3,788.84	-828.80	3,781.62	0.00	0.00	0.00
15,800.00	90.00	179.51	11,961.00	-3,888.84	-827.95	3,881.62	0.00	0.00	0.00
15,900.00	90.00	179.51	11,961.00	-3,988.83	-827.09	3,981.62	0.00	0.00	0.00
16,000.00	90.00	179.51	11,961.00	-4,088.83	-826.24	4,081.62	0.00	0.00	0.00
16,100.00	90.00	179.51	11,961.00	-4,188.83	-825.38	4,181.62	0.00	0.00	0.00
16,200.00	90.00	179.51	11,961.00	-4,288.82	-824.53	4,281.62	0.00	0.00	0.00
16,300.00	90.00	179.51	11,961.00	-4,388.82	-823.67	4,381.62	0.00	0.00	0.00
16,400.00	90.00	179.51	11,961.00	-4,488.82	-822.82	4,481.62	0.00	0.00	0.00
16,500.00	90.00	179.51	11,961.00	-4,588.81	-821.96	4,581.62	0.00	0.00	0.00
16,600.00	90.00	179.51	11,961.00	-4,688.81	-821.11	4,681.62	0.00	0.00	0.00
16,700.00	90.00	179.51	11,961.00	-4,788.81	-820.25	4,781.62	0.00	0.00	0.00
16,800.00	90.00	179.51	11,961.00	-4,888.80	-819.39	4,881.62	0.00	0.00	0.00
16,900.00	90.00	179.51	11,961.00	-4,988.80	-818.54	4,981.62	0.00	0.00	0.00
17,000.00	90.00	179.51	11,961.00	-5,088.79	-817.68	5,081.62	0.00	0.00	0.00
17,100.00	90.00	179.51	11,961.00	-5,188.79	-816.83	5,181.62	0.00	0.00	0.00
17,200.00	90.00	179.51	11,961.00	-5,288.79	-815.97	5,281.62	0.00	0.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 301H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 301H	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)
17,300.00	90.00	179.51	11,961.00	-5,388.78	-815.12	5,381.62	0.00	0.00	0.00
17,400.00	90.00	179.51	11,961.00	-5,488.78	-814.26	5,481.62	0.00	0.00	0.00
17,500.00	90.00	179.51	11,961.00	-5,588.78	-813.41	5,581.62	0.00	0.00	0.00
17,600.00	90.00	179.51	11,961.00	-5,688.77	-812.55	5,681.62	0.00	0.00	0.00
17,700.00	90.00	179.51	11,961.00	-5,788.77	-811.70	5,781.62	0.00	0.00	0.00
17,800.00	90.00	179.51	11,961.00	-5,888.77	-810.84	5,881.62	0.00	0.00	0.00
17,900.00	90.00	179.51	11,961.00	-5,988.76	-809.99	5,981.62	0.00	0.00	0.00
18,000.00	90.00	179.51	11,961.00	-6,088.76	-809.13	6,081.62	0.00	0.00	0.00
18,100.00	90.00	179.51	11,961.00	-6,188.75	-808.28	6,181.62	0.00	0.00	0.00
18,200.00	90.00	179.51	11,961.00	-6,288.75	-807.42	6,281.62	0.00	0.00	0.00
18,300.00	90.00	179.51	11,961.00	-6,388.75	-806.57	6,381.62	0.00	0.00	0.00
18,400.00	90.00	179.51	11,961.00	-6,488.74	-805.71	6,481.62	0.00	0.00	0.00
18,500.00	90.00	179.51	11,961.00	-6,588.74	-804.86	6,581.62	0.00	0.00	0.00
18,600.00	90.00	179.51	11,961.00	-6,688.74	-804.00	6,681.62	0.00	0.00	0.00
18,700.00	90.00	179.51	11,961.00	-6,788.73	-803.15	6,781.62	0.00	0.00	0.00
18,800.00	90.00	179.51	11,961.00	-6,888.73	-802.29	6,881.62	0.00	0.00	0.00
18,900.00	90.00	179.51	11,961.00	-6,988.73	-801.44	6,981.62	0.00	0.00	0.00
19,000.00	90.00	179.51	11,961.00	-7,088.72	-800.58	7,081.62	0.00	0.00	0.00
19,100.00	90.00	179.51	11,961.00	-7,188.72	-799.73	7,181.62	0.00	0.00	0.00
19,200.00	90.00	179.51	11,961.00	-7,288.71	-798.87	7,281.62	0.00	0.00	0.00
19,300.00	90.00	179.51	11,961.00	-7,388.71	-798.01	7,381.62	0.00	0.00	0.00
19,400.00	90.00	179.51	11,961.00	-7,488.71	-797.16	7,481.62	0.00	0.00	0.00
19,445.85	90.00	179.51	11,961.00	-7,534.55	-796.77	7,527.46	0.00	0.00	0.00
SLC (LV Fed 301H)									
19,500.00	90.00	179.51	11,961.00	-7,588.70	-796.30	7,581.62	0.00	0.00	0.00
19,600.00	90.00	179.51	11,961.00	-7,688.70	-795.45	7,681.62	0.00	0.00	0.00
19,700.00	90.00	179.51	11,961.00	-7,788.70	-794.59	7,781.62	0.00	0.00	0.00
19,800.00	90.00	179.51	11,961.00	-7,888.69	-793.74	7,881.62	0.00	0.00	0.00
19,900.00	90.00	179.51	11,961.00	-7,988.69	-792.88	7,981.62	0.00	0.00	0.00
20,000.00	90.00	179.51	11,961.00	-8,088.69	-792.03	8,081.62	0.00	0.00	0.00
20,100.00	90.00	179.51	11,961.00	-8,188.68	-791.17	8,181.62	0.00	0.00	0.00
20,200.00	90.00	179.51	11,961.00	-8,288.68	-790.32	8,281.62	0.00	0.00	0.00
20,300.00	90.00	179.51	11,961.00	-8,388.67	-789.46	8,381.62	0.00	0.00	0.00
20,400.00	90.00	179.51	11,961.00	-8,488.67	-788.61	8,481.62	0.00	0.00	0.00
20,443.01	90.00	179.51	11,961.00	-8,531.68	-788.24	8,524.62	0.00	0.00	0.00
LTP (LV Fed 301H)									
20,500.00	90.00	179.51	11,961.00	-8,588.67	-787.75	8,581.62	0.00	0.00	0.00
20,606.46	90.00	179.51	11,961.00	-8,695.12	-786.84	8,688.07	0.00	0.00	0.00
PBHL (LV Fed 301H)									

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Los Vaqueros Fed 301H
Company:	Earthstone Operating, LLC	TVD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Project:	Lea County, NM (NAD 27)	MD Reference:	GE 3183.18' + KB 27.5' @ 3210.68usft
Site:	Los Vaqueros Fed Pad	North Reference:	Grid
Well:	Los Vaqueros Fed 301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,045.68	1,045.68	Rustler				
1,480.68	1,480.68	Salado				
5,060.94	5,050.68	Base Salt				
5,372.35	5,360.68	Lamar				
5,387.41	5,375.68	Bell Canyon				
6,401.98	6,385.68	Cherry Canyon				
7,893.70	7,870.68	Brushy Canyon				
9,315.10	9,285.68	Top BSPG Lime				
10,595.86	10,560.68	1st BSPG Ss				
10,816.86	10,780.68	2nd BSPG Carb				
11,143.33	11,105.68	2nd BSPG Ss				
11,592.50	11,550.68	3rd BSPG Carb				
12,310.26	11,960.68	Target LP				

API: 30-025-49579

Well Name Change

From: Los Vaqueros Fed 512H

To: Los Vaqueros Fed 301H

Pool Change

From: (96776) Jabalina; Wolfcamp, Southwest

To: (96672) WC-025 G08 S263412K; Bone Spring

First Take Point

From: C-30-26S-35E; 100 FNL, 1486 FWL

To: Lot 1-30-26S-35E; 100 FNL, 1100 FWL

BHL Change

From: Lot 3-31-26S-35E; 10' FSL & 1486' FWL, Lea County, NM

To: 1161' FNL, 50' FWL; Sect. 25, Loving County, TX

Depth Changes

From: 20,665'MD/13,144'TVD

To: 20,606'MD/11,961' 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 249136

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 249136
	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") ibetween 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.	9/25/2023