

Well Name: SANDRA JEAN 23 FED COM	Well Location: T20S / R33E / SEC 23 / SESE / 32.5523685 / -103.6278167	County or Parish/State: LEA / NM
Well Number: 401H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM29704	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552288	Operator: AVANT OPERATING LLC	

Notice of Intent

Sundry ID: 2801875

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 07/18/2024	Time Sundry Submitted: 09:06
Date proposed operation will begin: 09/01/2024	

Procedure Description: Avant Operating, LLC would like to request that the SHL for the Sandra Jean 23 Fed Com 401H be changed. The SHL will change from 360 FSL and 762 FEL to 360 FSL and 802H FEL. Please see the attached updated documents for this request. Thank you!

NOI Attachments

- Procedure Description
- Sandra_Jean_23_Fed_Com_401H_Plan_0.1_Report_20240718210615.pdf
 - Sandra_Jean_23_Fed_Com_401H_C_102_20240718210559.pdf

Received by OCD: 8/4/2024 8:54:26 PM

Page 2 of 14

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Lease Number: NMNM29704	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552288	Operator: AVANT OPERATING LLC	

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SARAH FERREYROS	Signed on: JUL 18, 2024 09:06 PM
Name: AVANT OPERATING LLC	
Title: Director of Regulatory	
Street Address: 1515 WYNKOOP	
City: DENVER	State: CO
Phone: (720) 854-9020	
Email address: SARAH@AVANTNR.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CODY LAYTON	BLM POC Title: Assistant Field Manager Lands & Minerals
BLM POC Phone: 5752345959	BLM POC Email Address: clayton@blm.gov
Disposition: Approved	Disposition Date: 08/02/2024
Signature: Cody R. Layton	

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address 3b. Phone No. (include area code)

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

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 recompleate 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 perfonned 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 recompletion 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.)

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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

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

Location of Well

0. SHL: SESE / 360 FSL / 762 FEL / TWSP: 20S / RANGE: 33E / SECTION: 23 / LAT: 32.5523685 / LONG: -103.6278167 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 1057 FEL / TWSP: 20S / RANGE: 33E / SECTION: 23 / LAT: 32.5516532 / LONG: -103.6287743 (TVD: 9900 feet, MD: 10186 feet)

BHL: NENE / 100 FNL / 1057 FEL / TWSP: 20S / RANGE: 33E / SECTION: 23 / LAT: 32.5656293 / LONG: -103.6287752 (TVD: 9900 feet, MD: 14841 feet)

Avant Operating, LLC

Lea Co., NM (NAD 83)

Sandra Jean 23 Fed Com Pad 1

Sandra Jean 23 Fed Com 401H

OH

Plan: Plan 0.1

Standard Planning Report

17 July, 2024

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 401H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3664.5usft (3664.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3664.5usft (3664.5)
Site:	Sandra Jean 23 Fed Com Pad 1	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Project	Lea Co., NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sandra Jean 23 Fed Com Pad 1									
Site Position:		Northing:		565,242.54 usft		Latitude:		32.551928			
From:		Lat/Long		Easting:		758,771.22 usft		Longitude:		-103.627655	
Position Uncertainty:		0.0 usft		Slot Radius:		13-3/16 "					

Well	Sandra Jean 23 Fed Com 401H					
Well Position	+N/-S	0.0 usft	Northing:	565,402.20 usft	Latitude:	32.552368
	+E/-W	0.0 usft	Easting:	758,680.24 usft	Longitude:	-103.627947
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,638.0 usft
Grid Convergence:		0.38 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.61	60.74	49,614.57090134

Design	Plan 0.1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	356.59	

Plan Survey Tool Program			Date	7/17/2024	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)		Tool Name	Remarks
1	0.0	14,855.4	Plan 0.1 (OH)	B001Mb_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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,350.0	0.00	0.00	5,350.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,153.3	8.03	219.04	6,150.7	-43.7	-35.4	1.00	1.00	0.00	219.04	
8,222.2	8.03	219.04	8,199.3	-268.2	-217.5	0.00	0.00	0.00	0.00	
9,025.6	0.00	0.00	9,000.0	-311.9	-253.0	1.00	-1.00	0.00	180.00	
9,448.1	0.00	0.00	9,422.5	-311.9	-253.0	0.00	0.00	0.00	0.00	
10,198.1	90.00	359.62	9,900.0	165.6	-256.1	12.00	12.00	0.00	359.62	
14,855.4	90.00	359.62	9,900.0	4,822.8	-287.2	0.00	0.00	0.00	0.00	Sandra Jean 401H LT

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Site:	Sandra Jean 23 Fed Com Pad 1	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,428.0	0.00	0.00	1,428.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER									
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
YATES									
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,593.0	0.00	0.00	3,593.0	0.0	0.0	0.0	0.00	0.00	0.00
CAPITAN REEF									
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 401H
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Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3664.5usft (3664.5)
Site:	Sandra Jean 23 Fed Com Pad 1	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

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)
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,250.0	0.00	0.00	5,250.0	0.0	0.0	0.0	0.00	0.00	0.00
CHERRY CANYON									
5,260.0	0.00	0.00	5,260.0	0.0	0.0	0.0	0.00	0.00	0.00
DELAWARE									
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,350.0	0.00	0.00	5,350.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,400.0	0.50	219.04	5,400.0	-0.2	-0.1	-0.2	1.00	1.00	0.00
5,500.0	1.50	219.04	5,500.0	-1.5	-1.2	-1.4	1.00	1.00	0.00
5,600.0	2.50	219.04	5,599.9	-4.2	-3.4	-4.0	1.00	1.00	0.00
5,700.0	3.50	219.04	5,699.8	-8.3	-6.7	-7.9	1.00	1.00	0.00
5,800.0	4.50	219.04	5,799.5	-13.7	-11.1	-13.0	1.00	1.00	0.00
5,900.0	5.50	219.04	5,899.2	-20.5	-16.6	-19.5	1.00	1.00	0.00
6,000.0	6.50	219.04	5,998.6	-28.6	-23.2	-27.2	1.00	1.00	0.00
6,100.0	7.50	219.04	6,097.9	-38.1	-30.9	-36.2	1.00	1.00	0.00
6,153.3	8.03	219.04	6,150.7	-43.7	-35.4	-41.5	1.00	1.00	0.00
Start 2068.9 hold at 6153.3 MD									
6,200.0	8.03	219.04	6,196.9	-48.7	-39.5	-46.3	0.00	0.00	0.00
6,300.0	8.03	219.04	6,295.9	-59.6	-48.3	-56.6	0.00	0.00	0.00
6,400.0	8.03	219.04	6,394.9	-70.4	-57.1	-66.9	0.00	0.00	0.00
6,500.0	8.03	219.04	6,494.0	-81.3	-65.9	-77.2	0.00	0.00	0.00
6,600.0	8.03	219.04	6,593.0	-92.1	-74.7	-87.5	0.00	0.00	0.00
6,700.0	8.03	219.04	6,692.0	-103.0	-83.5	-97.9	0.00	0.00	0.00
6,708.1	8.03	219.04	6,700.0	-103.9	-84.3	-98.7	0.00	0.00	0.00
BRUSHY CANYON									
6,800.0	8.03	219.04	6,791.0	-113.9	-92.3	-108.2	0.00	0.00	0.00
6,900.0	8.03	219.04	6,890.0	-124.7	-101.1	-118.5	0.00	0.00	0.00
7,000.0	8.03	219.04	6,989.1	-135.6	-109.9	-128.8	0.00	0.00	0.00
7,100.0	8.03	219.04	7,088.1	-146.4	-118.8	-139.1	0.00	0.00	0.00
7,200.0	8.03	219.04	7,187.1	-157.3	-127.6	-149.4	0.00	0.00	0.00
7,300.0	8.03	219.04	7,286.1	-168.1	-136.4	-159.7	0.00	0.00	0.00
7,400.0	8.03	219.04	7,385.1	-179.0	-145.2	-170.0	0.00	0.00	0.00
7,500.0	8.03	219.04	7,484.2	-189.8	-154.0	-180.3	0.00	0.00	0.00
7,600.0	8.03	219.04	7,583.2	-200.7	-162.8	-190.7	0.00	0.00	0.00
7,700.0	8.03	219.04	7,682.2	-211.5	-171.6	-201.0	0.00	0.00	0.00
7,800.0	8.03	219.04	7,781.2	-222.4	-180.4	-211.3	0.00	0.00	0.00
7,900.0	8.03	219.04	7,880.2	-233.2	-189.2	-221.6	0.00	0.00	0.00
8,000.0	8.03	219.04	7,979.2	-244.1	-198.0	-231.9	0.00	0.00	0.00
8,100.0	8.03	219.04	8,078.3	-255.0	-206.8	-242.2	0.00	0.00	0.00
8,200.0	8.03	219.04	8,177.3	-265.8	-215.6	-252.5	0.00	0.00	0.00
8,222.2	8.03	219.04	8,199.3	-268.2	-217.5	-254.8	0.00	0.00	0.00
Start Drop -1.00									
8,300.0	7.26	219.04	8,276.4	-276.3	-224.1	-262.4	1.00	-1.00	0.00
8,345.0	6.81	219.04	8,321.0	-280.5	-227.5	-266.5	1.00	-1.00	0.00
Top of BSGL									
8,400.0	6.26	219.04	8,375.7	-285.4	-231.5	-271.1	1.00	-1.00	0.00
8,500.0	5.26	219.04	8,475.2	-293.2	-237.8	-278.5	1.00	-1.00	0.00
8,600.0	4.26	219.04	8,574.8	-299.6	-243.0	-284.6	1.00	-1.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 401H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3664.5usft (3664.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3664.5usft (3664.5)
Site:	Sandra Jean 23 Fed Com Pad 1	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

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)
8,700.0	3.26	219.04	8,674.6	-304.7	-247.1	-289.5	1.00	-1.00	0.00
8,800.0	2.26	219.04	8,774.5	-308.4	-250.2	-293.0	1.00	-1.00	0.00
8,900.0	1.26	219.04	8,874.4	-310.8	-252.1	-295.3	1.00	-1.00	0.00
9,000.0	0.26	219.04	8,974.4	-311.8	-252.9	-296.3	1.00	-1.00	0.00
9,025.6	0.00	0.00	9,000.0	-311.9	-253.0	-296.3	1.00	-1.00	0.00
Start 422.5 hold at 9025.6 MD									
9,100.0	0.00	0.00	9,074.4	-311.9	-253.0	-296.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,174.4	-311.9	-253.0	-296.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,274.4	-311.9	-253.0	-296.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,374.4	-311.9	-253.0	-296.3	0.00	0.00	0.00
9,420.6	0.00	0.00	9,395.0	-311.9	-253.0	-296.3	0.00	0.00	0.00
Top of FBSG SD									
9,448.1	0.00	0.00	9,422.5	-311.9	-253.0	-296.3	0.00	0.00	0.00
KOP #2 - Start Build 12.00 - Sandra Jean 401H KOP									
9,450.0	0.23	359.62	9,424.4	-311.9	-253.0	-296.3	11.78	11.78	0.00
9,475.0	3.23	359.62	9,449.4	-311.1	-253.0	-295.5	12.00	12.00	0.00
9,500.0	6.23	359.62	9,474.3	-309.1	-253.0	-293.5	12.00	12.00	0.00
9,525.0	9.23	359.62	9,499.1	-305.7	-253.0	-290.1	12.00	12.00	0.00
9,550.0	12.23	359.62	9,523.7	-301.1	-253.0	-285.5	12.00	12.00	0.00
9,575.0	15.23	359.62	9,547.9	-295.1	-253.1	-279.6	12.00	12.00	0.00
9,600.0	18.23	359.62	9,571.9	-287.9	-253.1	-272.4	12.00	12.00	0.00
9,625.0	21.23	359.62	9,595.4	-279.5	-253.2	-263.9	12.00	12.00	0.00
9,650.0	24.23	359.62	9,618.5	-269.8	-253.2	-254.3	12.00	12.00	0.00
9,675.0	27.23	359.62	9,641.0	-259.0	-253.3	-243.5	12.00	12.00	0.00
9,700.0	30.23	359.62	9,662.9	-247.0	-253.4	-231.5	12.00	12.00	0.00
9,716.5	32.20	359.62	9,677.0	-238.4	-253.5	-222.9	12.00	12.00	0.00
Top of SBSG Shale									
9,725.0	33.23	359.62	9,684.2	-233.8	-253.5	-218.3	12.00	12.00	0.00
9,750.0	36.23	359.62	9,704.7	-219.6	-253.6	-204.1	12.00	12.00	0.00
9,775.0	39.23	359.62	9,724.5	-204.3	-253.7	-188.8	12.00	12.00	0.00
9,800.0	42.23	359.62	9,743.4	-188.0	-253.8	-172.6	12.00	12.00	0.00
9,825.0	45.23	359.62	9,761.5	-170.7	-253.9	-155.3	12.00	12.00	0.00
9,850.0	48.23	359.62	9,778.6	-152.5	-254.0	-137.1	12.00	12.00	0.00
Sandra Jean 401H FTP									
9,875.0	51.23	359.62	9,794.8	-133.4	-254.2	-118.1	12.00	12.00	0.00
9,900.0	54.23	359.62	9,809.9	-113.5	-254.3	-98.2	12.00	12.00	0.00
9,925.0	57.23	359.62	9,824.0	-92.9	-254.4	-77.6	12.00	12.00	0.00
9,950.0	60.23	359.62	9,837.0	-71.5	-254.6	-56.3	12.00	12.00	0.00
9,975.0	63.23	359.62	9,848.8	-49.5	-254.7	-34.3	12.00	12.00	0.00
10,000.0	66.23	359.62	9,859.5	-26.9	-254.9	-11.7	12.00	12.00	0.00
10,025.0	69.23	359.62	9,869.0	-3.8	-255.0	11.4	12.00	12.00	0.00
10,050.0	72.23	359.62	9,877.2	19.8	-255.2	35.0	12.00	12.00	0.00
10,075.0	75.23	359.62	9,884.2	43.8	-255.3	58.9	12.00	12.00	0.00
10,100.0	78.23	359.62	9,890.0	68.2	-255.5	83.2	12.00	12.00	0.00
10,125.0	81.23	359.62	9,894.4	92.8	-255.7	107.8	12.00	12.00	0.00
10,150.0	84.23	359.62	9,897.6	117.6	-255.8	132.6	12.00	12.00	0.00
10,175.0	87.23	359.62	9,899.4	142.5	-256.0	157.4	12.00	12.00	0.00
10,198.1	90.00	359.62	9,900.0	165.6	-256.1	180.5	12.00	12.00	0.00
LP - Start 4657.3 hold at 10198.1 MD									
10,200.0	90.00	359.62	9,900.0	167.5	-256.2	182.4	0.00	0.00	0.00
10,300.0	90.00	359.62	9,900.0	267.5	-256.8	282.3	0.00	0.00	0.00
10,400.0	90.00	359.62	9,900.0	367.5	-257.5	382.1	0.00	0.00	0.00
10,500.0	90.00	359.62	9,900.0	467.5	-258.2	482.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 401H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3664.5usft (3664.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3664.5usft (3664.5)
Site:	Sandra Jean 23 Fed Com Pad 1	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

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)	
10,600.0	90.00	359.62	9,900.0	567.5	-258.8	581.8	0.00	0.00	0.00	
10,700.0	90.00	359.62	9,900.0	667.5	-259.5	681.7	0.00	0.00	0.00	
10,800.0	90.00	359.62	9,900.0	767.5	-260.2	781.6	0.00	0.00	0.00	
10,900.0	90.00	359.62	9,900.0	867.5	-260.8	881.4	0.00	0.00	0.00	
11,000.0	90.00	359.62	9,900.0	967.4	-261.5	981.3	0.00	0.00	0.00	
11,100.0	90.00	359.62	9,900.0	1,067.4	-262.2	1,081.1	0.00	0.00	0.00	
11,200.0	90.00	359.62	9,900.0	1,167.4	-262.8	1,181.0	0.00	0.00	0.00	
11,300.0	90.00	359.62	9,900.0	1,267.4	-263.5	1,280.9	0.00	0.00	0.00	
11,400.0	90.00	359.62	9,900.0	1,367.4	-264.2	1,380.7	0.00	0.00	0.00	
11,500.0	90.00	359.62	9,900.0	1,467.4	-264.8	1,480.6	0.00	0.00	0.00	
11,600.0	90.00	359.62	9,900.0	1,567.4	-265.5	1,580.4	0.00	0.00	0.00	
11,700.0	90.00	359.62	9,900.0	1,667.4	-266.2	1,680.3	0.00	0.00	0.00	
11,800.0	90.00	359.62	9,900.0	1,767.4	-266.8	1,780.2	0.00	0.00	0.00	
11,900.0	90.00	359.62	9,900.0	1,867.4	-267.5	1,880.0	0.00	0.00	0.00	
12,000.0	90.00	359.62	9,900.0	1,967.4	-268.2	1,979.9	0.00	0.00	0.00	
12,100.0	90.00	359.62	9,900.0	2,067.4	-268.8	2,079.8	0.00	0.00	0.00	
12,200.0	90.00	359.62	9,900.0	2,167.4	-269.5	2,179.6	0.00	0.00	0.00	
12,300.0	90.00	359.62	9,900.0	2,267.4	-270.2	2,279.5	0.00	0.00	0.00	
12,400.0	90.00	359.62	9,900.0	2,367.4	-270.8	2,379.3	0.00	0.00	0.00	
12,500.0	90.00	359.62	9,900.0	2,467.4	-271.5	2,479.2	0.00	0.00	0.00	
12,600.0	90.00	359.62	9,900.0	2,567.4	-272.2	2,579.1	0.00	0.00	0.00	
12,700.0	90.00	359.62	9,900.0	2,667.4	-272.8	2,678.9	0.00	0.00	0.00	
12,800.0	90.00	359.62	9,900.0	2,767.4	-273.5	2,778.8	0.00	0.00	0.00	
12,900.0	90.00	359.62	9,900.0	2,867.4	-274.2	2,878.6	0.00	0.00	0.00	
13,000.0	90.00	359.62	9,900.0	2,967.4	-274.8	2,978.5	0.00	0.00	0.00	
13,100.0	90.00	359.62	9,900.0	3,067.4	-275.5	3,078.4	0.00	0.00	0.00	
13,200.0	90.00	359.62	9,900.0	3,167.4	-276.2	3,178.2	0.00	0.00	0.00	
13,300.0	90.00	359.62	9,900.0	3,267.4	-276.8	3,278.1	0.00	0.00	0.00	
13,400.0	90.00	359.62	9,900.0	3,367.4	-277.5	3,377.9	0.00	0.00	0.00	
13,500.0	90.00	359.62	9,900.0	3,467.4	-278.2	3,477.8	0.00	0.00	0.00	
13,600.0	90.00	359.62	9,900.0	3,567.4	-278.8	3,577.7	0.00	0.00	0.00	
13,700.0	90.00	359.62	9,900.0	3,667.4	-279.5	3,677.5	0.00	0.00	0.00	
13,800.0	90.00	359.62	9,900.0	3,767.4	-280.2	3,777.4	0.00	0.00	0.00	
13,900.0	90.00	359.62	9,900.0	3,867.4	-280.9	3,877.2	0.00	0.00	0.00	
14,000.0	90.00	359.62	9,900.0	3,967.4	-281.5	3,977.1	0.00	0.00	0.00	
14,100.0	90.00	359.62	9,900.0	4,067.4	-282.2	4,077.0	0.00	0.00	0.00	
14,200.0	90.00	359.62	9,900.0	4,167.4	-282.9	4,176.8	0.00	0.00	0.00	
14,300.0	90.00	359.62	9,900.0	4,267.4	-283.5	4,276.7	0.00	0.00	0.00	
14,400.0	90.00	359.62	9,900.0	4,367.4	-284.2	4,376.5	0.00	0.00	0.00	
14,500.0	90.00	359.62	9,900.0	4,467.4	-284.9	4,476.4	0.00	0.00	0.00	
14,600.0	90.00	359.62	9,900.0	4,567.4	-285.5	4,576.3	0.00	0.00	0.00	
14,700.0	90.00	359.62	9,900.0	4,667.4	-286.2	4,676.1	0.00	0.00	0.00	
14,800.0	90.00	359.62	9,900.0	4,767.4	-286.9	4,776.0	0.00	0.00	0.00	
14,855.4	90.00	359.62	9,900.0	4,822.8	-287.2	4,831.3	0.00	0.00	0.00	
TD at 14855.4 - Sandra Jean 401H LTP/BHL										

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Sandra Jean 23 Fed Com 401H
Company:	Avant Operating, LLC	TVD Reference:	WELL @ 3664.5usft (3664.5)
Project:	Lea Co., NM (NAD 83)	MD Reference:	WELL @ 3664.5usft (3664.5)
Site:	Sandra Jean 23 Fed Com Pad 1	North Reference:	Grid
Well:	Sandra Jean 23 Fed Com 401H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Sandra Jean 401H KOP	0.00	0.00	9,422.5	-311.9	-253.0	565,090.31	758,427.28	32.551516	-103.628775
- plan hits target center									
- Point									
Sandra Jean 401H FTP	0.00	0.00	9,900.0	-261.9	-253.3	565,140.31	758,426.93	32.551653	-103.628775
- plan misses target center by 163.4usft at 9850.0usft MD (9778.6 TVD, -152.5 N, -254.0 E)									
- Point									
Sandra Jean 401H LTP//	0.00	0.01	9,900.0	4,822.8	-287.2	570,224.99	758,393.01	32.565629	-103.628775
- plan hits target center									
- Point									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
14,841.2	9,900.0	20" Casing	20	24

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,428.0	1,428.0	RUSTLER			
3,200.0	3,200.0	YATES			
3,593.0	3,593.0	CAPITAN REEF			
5,250.0	5,250.0	CHERRY CANYON			
5,260.0	5,260.0	DELAWARE			
6,708.1	6,700.0	BRUSHY CANYON			
8,345.0	8,321.0	Top of BSG			
9,420.6	9,395.0	Top of FBSG SD			
9,716.5	9,677.0	Top of SBSG Shale			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,350.0	5,350.0	0.0	0.0	KOP - Start Build 1.00	
6,153.3	6,150.7	-43.7	-35.4	Start 2068.9 hold at 6153.3 MD	
8,222.2	8,199.3	-268.2	-217.5	Start Drop -1.00	
9,025.6	9,000.0	-311.9	-253.0	Start 422.5 hold at 9025.6 MD	
9,448.1	9,422.5	-311.9	-253.0	KOP #2 - Start Build 12.00	
10,198.1	9,900.0	165.6	-256.1	LP - Start 4657.3 hold at 10198.1 MD	
14,855.4	9,900.0	4,822.8	-287.2	TD at 14855.4	

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 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 30-025-52288	² Pool Code 58960	³ Pool Name Teas; Bone Spring
⁴ Property Code 334758	⁵ Property Name SANDRA JEAN 23 FED COM	⁶ Well Number 40IH
⁷ GRID No. 330396	⁸ Operator Name AVANT OPERATING, LLC	⁹ Elevation 3638

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
P	23	20 S	33 E		360	SOUTH	802	EAST	LEA

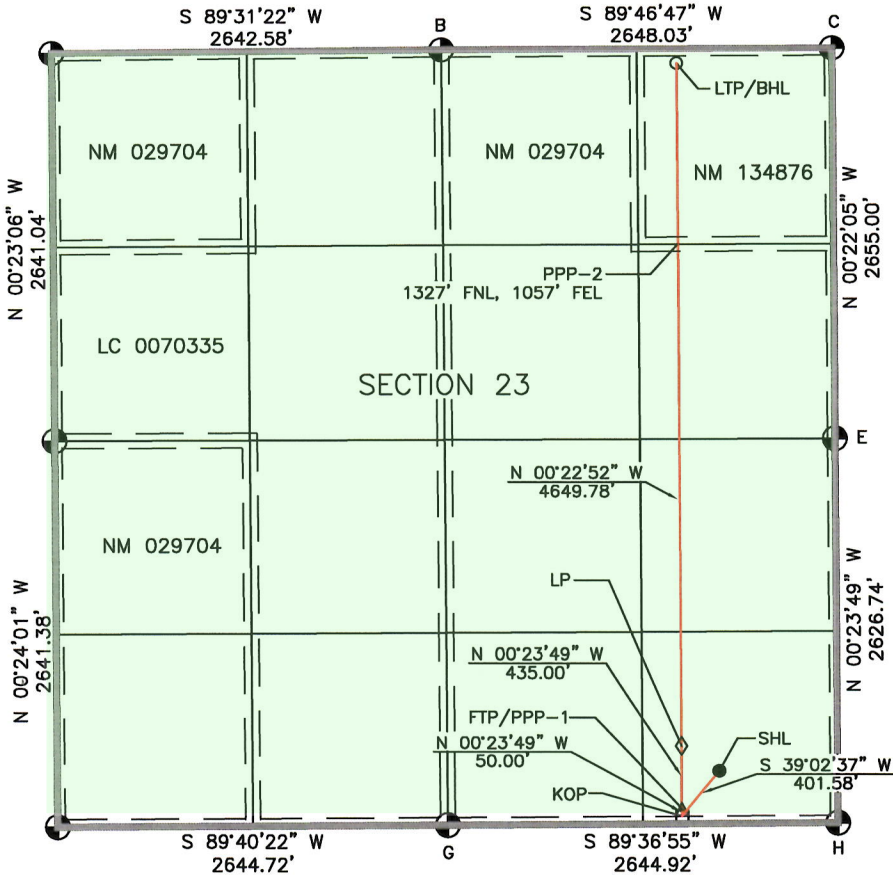
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	23	20 S	33 E		100	NORTH	1057	EAST	LEA

¹² Dedicated Acres SECTION 23: 640 Ac.	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

- ¹⁶ Legend:
- = SURFACE LOCATION (SHL)
 - = LTP/BHL
 - △ = FTP/PPP-1
 - = KICK OFF POINT (KOP)
 - ◇ = LANDING POINT (LP)
 - ⊙ = FOUND 1912 USGLO BRASS CAP



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.

Sarah Ferreyros 7/18/24
Signature Date
Sarah Ferreyros
Printed Name
Sarah@avantnr.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.

6/29/24 7/18/2024
Date of Survey
Plat Revised: 7/12/24
Signature and Seal of Professional Surveyor:
14831
Certificate Number 14831

SURFACE LOCATION
NAD 83 NME, NMSPC ZONE 3001
Y= 565402.20 N
X= 758680.24 E
LAT: 32.5523684° N
LONG: 103.6279467° W

KICK OFF POINT
NAD 83 NME, NMSPC ZONE 3001
50' FSL, 1057' FEL
SEC. 23, T20S, R33E
Y= 565090.31 N
X= 758427.28 E
LAT: 32.5515158° N
LONG: 103.6287743° W

FIRST TAKE POINT/PPP-1
NAD 83 NME, NMSPC ZONE 3001
100' FSL, 1057' FEL
SEC. 23, T20S, R33E
Y= 565140.31 N
X= 758426.93 E
LAT: 32.5516532° N
LONG: 103.6287743° W

LANDING POINT
NAD 83 NME, NMSPC ZONE 3001
535' FSL, 1057' FEL
SEC. 23, T20S, R33E
Y= 565575.30 N
X= 758423.92 E
LAT: 32.5528488° N
LONG: 103.6287748° W

CORNER COORDINATES TABLE
NAD 83 NME, NMSPC ZONE 3001
B - Y= 570318.86 N, X= 756801.34 E
C - Y= 570329.03 N, X= 759449.35 E
E - Y= 567674.09 N, X= 759466.41 E
G - Y= 565029.65 N, X= 756839.74 E
H - Y= 565047.41 N, X= 759484.60 E

CORNER COORDINATES TABLE
NAD 83 NME, NMSPC ZONE 3001
B - LAT.=32.5659162° N, LONG.=103.6339394° W
C - LAT.=32.5658960° N, LONG.=103.6253443° W
E - LAT.=32.5585985° N, LONG.=103.6253463° W
G - LAT.=32.5513778° N, LONG.=103.6339276° W
H - LAT.=32.5513786° N, LONG.=103.6253439° W

PPP-2
NAD 83 NME, NMSPC ZONE 3001
1327' FNL, 1057' FEL
SEC. 23, T20S, R33E
Y= 568997.71 N
X= 758401.16 E
LAT: 32.5622559° N
LONG: 103.6287751° W

LAST TAKE POINT/
BOTTOM HOLE LOCATION
NAD 83 NME, NMSPC ZONE 3001
Y= 570224.97 N
X= 758393.00 E
LAT: 32.5656293° N
LONG: 103.6287752° W

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 370196

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 370196
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	REQUIRES NSP	8/9/2024