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

Sundry Print Report

11/07/2024

Well Name: LEA UNIT 14 11

Well Location: T20S / R34E / SEC 14 / NESE / 32.572704 / -103.526545

County or Parish/State: LEA / NM

Well Number: 203H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM080262

Unit or CA Name: LEA UNIT - BONE SPRINGS

Unit or CA Number: NMNM70976B

US Well Number: 3002553624

Operator: AVANT OPERATING LLC

*** OCD already approved below changes on 10/28/2024 (ID#369010). Submitting BLM approval for OCD records***.

Notice of Intent

Sundry ID: 2818885

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/25/2024

Time Sundry Submitted: 01:03

Date proposed operation will begin: 11/17/2024

Procedure Description: Avant Operating, LLC would like to request to move the BHL of the Lea Unit 203H well (30-025-53624). The BHL will move from 100' FNL & 990' FEL to 100' FNL & 770' FEL, please see attached revised C-102 plat and directional plans to reflect this change. Avant would also like to request to offline cement surface & intermediate sections, please see attached approved procedures. Please note Avant has requested a name change for this well, from the "Lea Unit 14 11 203H" to the "Lea Unit 203H" to comply with unit naming convention (sundry ID#2816582).

NOI Attachments

Procedure Description

Lea_Unit_14_11_203H_Cement_11_6_24_20241106134405.pdf

Lea_Unit_14_11_203H_WBS_11_6_24_Prelim_20241106134351.pdf

Avant___Offline_Cementing_Procedure_20241025130235.pdf

Avant_Surface_Casing_Cement_Variance_20241025130216.pdf

Lea_Unit_14_11_203H_BHL_Change_Sundry_Attachments_20241025115546.pdf

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US Well Number: 3002553624

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: MEGHAN TWELE

Signed on: NOV 06, 2024 01:44 PM

Name: AVANT OPERATING LLC

Title: Contract Regulatory Analyst

Street Address: 1515 WYNKOOP ST SUITE 700

City: DENVER **State:** CO

Phone: (720) 339-6880

Email address: MTWELE@OUTLOOK.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 11/07/2024

Signature: Long Vo

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

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

11. Country or Parish, State

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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete 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 OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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: NESE / 2483 FSL / 1300 FEL / TWSP: 20S / RANGE: 34E / SECTION: 14 / LAT: 32.572704 / LONG: -103.526545 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 1318 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 14 / LAT: 32.576745 / LONG: -103.52554 (TVD: 9000 feet, MD: 10518 feet)

PPP: SESE / 0 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 11 / LAT: 32.580368 / LONG: -103.525541 (TVD: 9000 feet, MD: 11836 feet)

PPP: SENE / 2540 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 14 / LAT: 32.573387 / LONG: -103.525539 (TVD: 9000 feet, MD: 9296 feet)

PPP: NENE / 1320 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 11 / LAT: 32.59125 / LONG: -103.525543 (TVD: 9000 feet, MD: 15369 feet)

BHL: NENE / 100 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 11 / LAT: 32.594604 / LONG: -103.525544 (TVD: 9000 feet, MD: 16589 feet)

PROPOSAL#: 240214090038-B

CEMENT PROCEDURE & PROPOSAL

PREPARED FOR:

Mr. Braden Harris
EMAIL: braden@avantnr.com
PHONE NUMBER: 406-600-3310

Avant Natural Resources

Lea Unit 14-11 #203H

Lea County, NM
Rig: H&P 460

Service Point

Odessa
1400 S JBS Parkway Odessa, TX 79766
432-701-8955

Technical Writer
Jonathan Smith
jonathan@wtcementers.com
432-701-3719

WTC Representative
Jon Reynolds
jon@wtcementers.com
432-257-1234

PRINTED 11/6/2024 9:10 VERSION: v0.29

Avant Natural Resources
Lea Unit 14-11 #203H
Lea County, NM
Rig: H&P 460

Surface

PROPOSAL#: 240214090038-B

WELL INFORMATION	
MUD	8.4# Fresh Water
PREVIOUS PIPE	20'' 94# CSG to 120
OPEN HOLE	17.5'' OH to 1526
CASING/INJECTION	13.375'' 54.5# J-55/LTC to 1526
MD	1526
EST BHST/BHCT	93-F / 85-F (0.8-F/100-FT)
NOTES	Standby charges start after WTC has been on location for more than 4-hrs.

VOLUMES

FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Lead	120	19.124	13.375		0.1815	21.8
Lead	1100	17.5	13.375	50%	0.1856	204.1
Tail	306	17.5	13.375	20%	0.1485	45.4
SHOE JOINT	40	13.375	12.615		0.1546	6.2

FLUIDS

SPACER

Fresh Water

VOLUME 20-bbl

Lead

35% B_Poz+65% Class C+6% Gel+5% SALT+0.25PPS Pol-E-Flake+0.005GPS NoFoam V1A

VOLUME	670-SX	*226.7-bbls*
DENSITY	12.8-ppg	
YIELD	1.9-cf/sx	
MIX WATER	10.17-gps	
TOP OF CEMENT	Surface	
EXCESS	50%	

Avant Natural Resources
Lea Unit 14-11 #203H
Lea County, NM
Rig: H&P 460

Surface

PROPOSAL#: 240214090038-B

Tail		
	100% Class C+1% CaCl2+0.005GPS NoFoam V1A	
VOLUME	220-SX	*52.1-bbls*
DENSITY	14.8-ppg	
YIELD	1.33-cf/sx	
MIX WATER	6.34-gps	
TOP OF CEMENT	1220-ft	
EXCESS	20%	
DISPLACEMENT		
	Displacement	
VOLUME	229.7-bbl	

Avant Natural Resources
Lea Unit 14-11 #203H
Lea County, NM
Rig: H&P 460

Intermediate

PROPOSAL#: 240214090038-B

WELL INFORMATION	
MUD	10.5# Brine
PREVIOUS PIPE	13.375'' 54.5# CSG to 1526
OPEN HOLE	12.25'' OH to 5746
CASING/INJECTION	9.625'' 40# J-55/LTC to 5746
MD	5746
TVD	5741
EST BHST/BHCT	126-F / 110-F (0.8-F/100-FT)
NOTES	Standby charges start after WTC has been on location for more than 4-hrs.

VOLUMES

FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Lead	1526	12.615	9.625		0.0646	98.6
Lead	3070	12.25	9.625	50%	0.0837	256.9
Tail	1150	12.25	9.625	20%	0.0669	77.0
SHOE JOINT	40	9.625	8.835		0.0758	3.0

FLUIDS

SPACER	
Fresh Water	
VOLUME	25-bbl

Lead		
35% B_Poz+65% Class C+6% Gel+5% SALT+0.5% R-1300+0.25PPS Pol-E-Flake+0.005GPS NoFoam V1A		
VOLUME	1050-SX	*355.3-bbls*
DENSITY	12.8-ppg	
YIELD	1.9-cf/sx	
MIX WATER	10.18-gps	
TOP OF CEMENT	Surface	
EXCESS	50%	

Avant Natural Resources
Lea Unit 14-11 #203H
Lea County, NM
Rig: H&P 460

Intermediate

PROPOSAL#: 240214090038-B

Tail		
	100% Class C+5% SALT+0.005GPS NoFoam V1A	
VOLUME	330-SX	*79.9-bbls*
DENSITY	14.8-ppg	
YIELD	1.36-cf/sx	
MIX WATER	6.51-gps	
TOP OF CEMENT	4596-ft	
EXCESS	20%	
DISPLACEMENT		
	Displacement	
VOLUME	432.6-bbl	

Avant Natural Resources
Lea Unit 14-11 #203H
Lea County, NM
Rig: H&P 460

Production

PROPOSAL#: 240214090038-B

WELL INFORMATION	
MUD	9.8# OBM
PREVIOUS PIPE	9.625'' 40# CSG to 5746
OPEN HOLE	8.75'' OH to 16667
CASING/INJECTION	5.5'' 20# P-110 HC/GBCD to 16667
MD	16667
TVD	8911
EST BHST/BHCT	201-F / 184-F (1.34-F/100-FT)
KOP	8621
NOTES	Standby charges start after WTC has been on location for more than 8-hrs.

VOLUMES

FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Lead	5746	8.835	5.5		0.0464	266.8
Lead	2800	8.75	5.5	50%	0.0675	188.9
Tail	8043	8.75	5.5	20%	0.0540	434.2
SHOE JOINT	80	5.5	4.778		0.0222	1.8

FLUIDS

SPACER

Wt. Spacer 37.16GPB Water+8PPB PolyScrub 4320+105.54PPB Barite+1GPB HoleScrub 4311+1PPB R-1300

VOLUME	40-bbl
DENSITY	10.3-ppg

Lead

100% ProLite+5PPS Plexcrete STE+2% SMS+0.65% R-1300+0.2% FL-24+3PPS Gilsonite+0.005GPS NoFoam V1A

VOLUME	760-SX	*457.5-bbls*
DENSITY	10.7-ppg	
YIELD	3.38-cf/sx	
MIX WATER	21.06-gps	
TOP OF CEMENT	Surface	
EXCESS	50%	

Avant Natural Resources
Lea Unit 14-11 #203H
Lea County, NM
Rig: H&P 460

Production

PROPOSAL#: 240214090038-B

Tail		
50% B_Poz+50% Class H+5% SALT+0.05% RCKCAS-100+0.75% R-1201+0.5% FL-24+0.005GPS NoFoam V1A		
VOLUME	2025-SX	*436.4-bbls*
DENSITY	14.5-ppg	
YIELD	1.21-cf/sx	
MIX WATER	5.28-gps	
TOP OF CEMENT	8546-ft	
EXCESS	20%	
DISPLACEMENT		
Fresh Water+ 0.25GPT Plexcide 24L+1GPT Corplex		
VOLUME	366.1-bbl	
DENSITY	8.34-ppg	

CHEMICAL DESCRIPTIONS		
CHEMICAL NAME	**CODE**	**DESCRIPTION**
B_Poz	WTC228	Poz - Fly Ash, Extender
Class H	WTC101	API Cement
Class C	WTC100	API Cement
Premium C	WTC270	API Cement
ProLite		Blended Based Cement
Plexcrete SFA	WTC129	Cement Strength Enhancer
Gel	WTC102	Extender
Micro Crystal	WTC212	Cement Strength Enhancer
Micro Shell	WTC209	Cement Strength Enhancer
WTC1	WTC250	Extender
Plexcrete STE	WTC127	Cement Strength Enhancer
FAR-2	WTC260	Cement Strength Enhancer
Gypsum	WTC111	Free Water Control, Extender
CaCl2	WTC112	Accelerator
SMS	WTC115	Free Water Control, Extender
RCKCAS-100	WTC276	Free Water Control, Anti-Settling Agent
SA-1	WTC264	Free Water Control, Extender
R-33	WTC243	Lignosulfonate Retarder
R-1300	WTC201	Low Temperature Retarder
R-1201	WTC253	Lignosulfonate Retarder
FR-5	WTC258	Lignosulfonate Retarder
C-37	WTC224	Dispersant, Friction Reducer
FL-24	WTC277	Fluid Loss (polymers/copolymers - 300-F max)
EC-10	WTC120	Expanding Agent
Gas Bond	WTC126	Gas Migration Control (Hydrogen Generating)
Gilsonite	WTC003	Premium Lost Circulation Material, Free Water Control
Pol-E-Flake	WTC106	Lost Circulation Material
Web Seal	WTC133	Premium Fiber Lost Circulation Material
Zone Seal	WTC207	Premium Lost Circulation Material
NoFoam V1A	WTC105	Liquid Defoamer
Water		Fresh Water
PolyScrub 4320	WTC232	Spacer Gelling Agent
Barite	WTC116	Weighting Agent
HoleScrub 4311	WTC281	Surfactant
HoleScrub 4305	WTC213	Surfactant
HoleScrub 4308	WTC215	Surfactant
Soda Ash	WTC164	pH Control
R-1300	WTC201	Low Temperature Retarder
RCKCAS-100	WTC276	Free Water Control, Anti-Settling Agent
Sugar	WTC119	Retarder
AI-1, Acid Inhibitor	WTC015	Corrosion Inhibitor
Plexcide 24L	WTC166	Biocide
Corplex	WTC134	Corrosion Inhibitor
Clay Max	WTC096	KCL Substitute
Zone Seal	WTC207	Premium Lost Circulation Material

API:

REGULATORY:

PERMIT #

RIG: H&P 460

KB: 3678.5 (26.5')

GL: 3652'

AVANT NATURAL RESOURCES

Lea Unit 14 11 #203H

Bone Spring

Lea County, NM

AFE:

WELLHEAD
13-3/8" x 9-5/8" x 5-1/2"
MNDS

SHL: Sec. 14, T-20S, R-34E; 2483 FSL, 1300 FEL

Lat: 32.5727036, Long: -103.5265454 (NAD83)

HOLE SIZE	MD	FORMATION	TVD	MUD	CASING	CEMENT	SPECIAL INSTRUCTIONS
	120	20" Conductor	120	SPUD MW 8.4 ppg FRESH TD MW 10.1 ppg	13 3/8 " 54.5# J-55 LTC +/- 13 Bowsprings 1 20' pup jt *1 joint shoe track, prebucked*	**LEAD: 12.8 PPG** Top of Lead: 0 50% Excess **TAIL: 14.8 PPG** Top of Tail: 1220' 20% Excess	**Circ cement to surface is a NMOCD requirement** Casing must be set 25' into the Rustler MUD: Fresh water only
SURFACE 17 1/2 "	1,501	Rustler	1,501				
	1,526	SURF CSG PT	1,525				
	3,534	Yates	3,534	DRLOUT MW 10 ppg BRINE TD MW 10.5 ppg	9 5/8 " 40# J-55 LTC +/- 38 Bowsprings 1 20' pup jt *1 joint shoe track, prebucked*	**LEAD: 12.8 PPG** Top of Lead: 0' 50% Excess **TAIL: 14.8 PPG** Top of Tail: 4596' 20% Excess	**Circ cement to surface is a NMOCD requirement**
INTRM 12 1/4 "	4,536	Capitan Reef	4,534				
	5,646	Base of Capitan	5,641				
	5,746	INTRM CSG PT	5,741				
	5,776	Cherry Canyon	5,771	DRLOUT MW 9.2 ppg CUT BRINE KOP MW 9.5 ppg EOC MW 9.5 ppg CUT BRINE	5 1/2 " 20# P-110 HC GBCD 1 15' pup jt 2 20' Marker Jts +/- 51 Bowsprings +/- 28 Doublebows +/- 169 Solid Bodies		
	6,668	Brushy Canyon	6,658				
	8,277	Bone Spring	8,253				
	8,346	Avalon A	8,322				
8 3/4 " VERTICAL							
	8,621	**KOP**	**8,595**				
	8,743	Avalon B	8,714				
8 3/4 " CURVE	**9,381**	**EOC**	**9,073**				

12°/ 100'

Lat MW 9.5 ppg — **OBM** — TD MW 9.5 ppg

TOE SLEEVE

16,667 ' MD

7,967 ' VS

8,911 ' TVD

BHL: 100 FNL, 770 FEL

EOC VS = 687' *Lat. Azi = VS Azi. = 359.54°* Est BHST = 165°F, Est BHCT = 148°F

DIRECTIONAL PLAN

MD	INC	INC	TVD	ANNOTATION

PRELIMINARY

8 3/4 " LATERAL			
	LEAD: 10.7 PPG Top of Lead: 0 50% OH Excess **TAIL: 14.5 PPG** Top of Tail (KOP): 8621' 20% Excess All aqueous fluids (spacer and disp) left inside or outside of pipe must have biocide & corrision inhibitor	Expected Btm Hole Pressure 4277.28 psi

DIRECTIONS TO LOCAITON:

Offline Cementing Summary – Intermediate Casing

<u>No changes to the cement program will take place for offline cementing.</u>

Note: Offline cementing will only be preformed within the Bone Springs and shallower with a MASP less than 5000 psi.

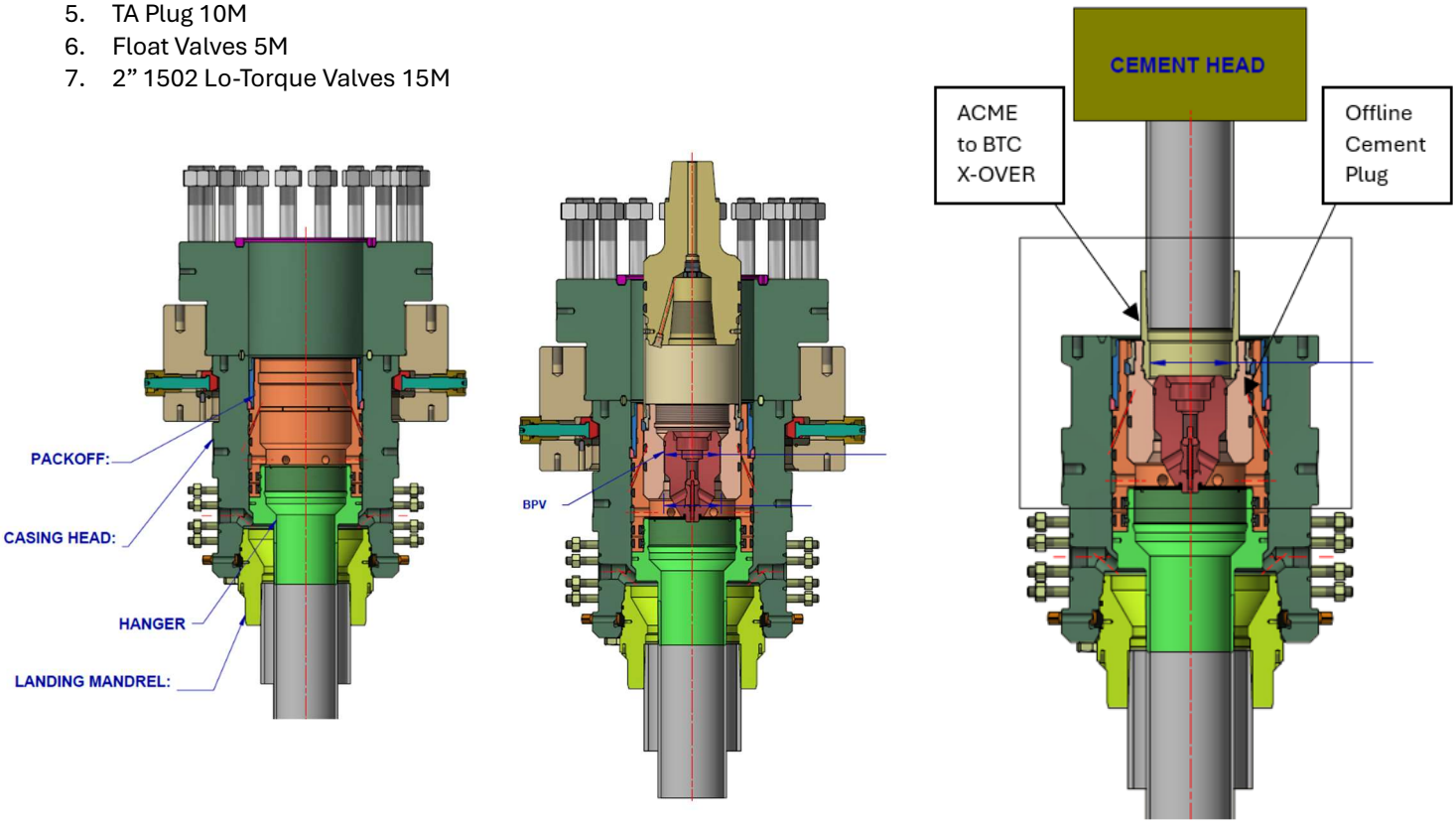
1. Run casing as per normal operations. While running casing, conduct negative pressure test and test back pressure valves.
    - **a.** Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land production casing on mandrel hanger through BOP.
    - **a.** If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online**.
    - **b.** Shoe assembly shown in Figure 1.
3. Break circulation and confirm no restrictions.
    - **a.** Ensure no blockage of float equipment and appropriate annular returns.
    - **b.** Perform flow check to confirm well is static.
4. Set pack-off
    - **a.** If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
    - **b.** If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
    - **a.** Minimum 4 hrs notice.
6. With the well secured and BLM notified, nipple down BOP and secure with 10k cement tool and cement head.
    - **a. Note: If any of the mechanical barriers fail to pressure test or well does not remain static, the BOP stack will not be nippled down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.**
7. Skid/Walk rig off current well.
8. Rig up return lines to take returns from wellhead to pits and rig choke.
    - **a.** Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
    - **b.** If either test fails, perform corrections and retest before proceeding.
9. Rig up cementing lines.
    - **a.** Pressure test cement lines against cement head to 80% of casing burst for 10 min.
10. Break circulation on well to confirm no restrictions.
    - **a.** If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
    - **b.** Max anticipated time before circulating with cement truck is 6 hrs.
11. Pump cement job as per plan.
    - **a.** At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
    - **b.** If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
    - **c.** If an influx is taken while cementing, Well Control Procedure from Appendix III will be followed.
12. Confirm well is static and floats are holding after cement job.
    - **a.** With floats holding and backside static:
        - **i.** Remove cement head.
    - **b.** If floats are leaking:
        - **i.** Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
    - **c.** If there is flow on the backside:
        - **i.** Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
    - **d.** If bradenhead cement remediation is required, Well Control Procedure from Appendix IV will be followed.
13. Remove offline cement tool.
14. Install night cap with pressure gauge for monitoring.
15. Test night cap to 5,000 psi for 10 min.

Appendix

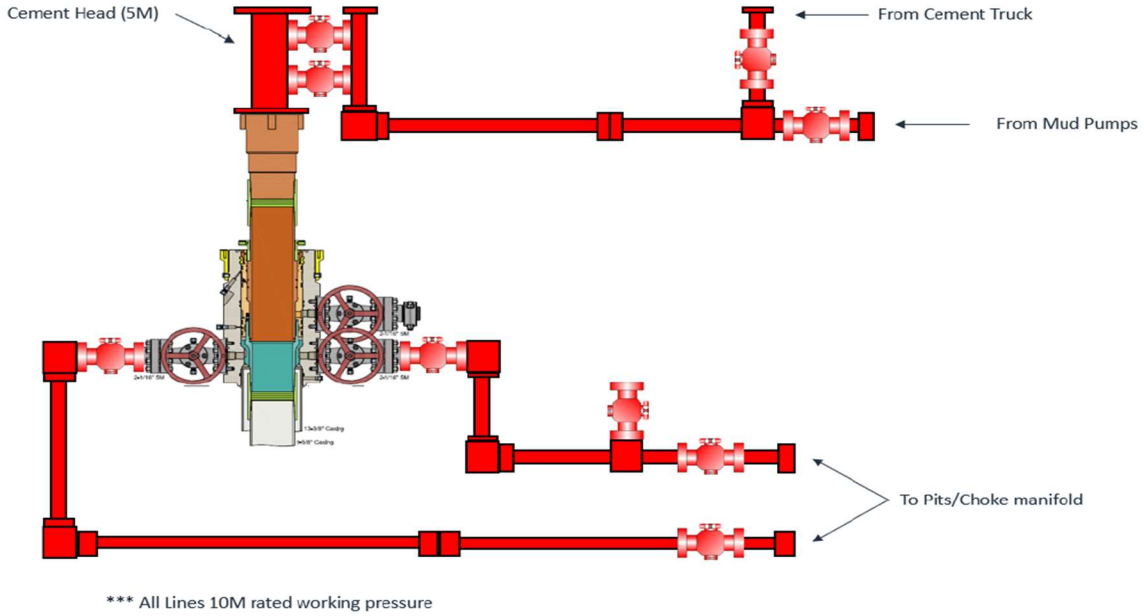
I. Offline cementing equipment ratings – 5M requirement

Component RWP

1. Pack-off 10M
2. Cement head 10M
3. Casing Wellhead Valves 10M
4. Annular Wellhead Valves 5M
5. TA Plug 10M
6. Float Valves 5M
7. 2” 1502 Lo-Torque Valves 15M



II. Cementing Instrumentation Diagram



III. Well Control Procedure (Influx occurs while cementing)

8. Alert location and shut down pumps.
9. Shut-in the well and record pressures and pit levels
10. Open choke and resume pumping to take returns through choke manifold to mud/gas separator.
11. Bump plug, close choke and cement head.
12. Record time, SICP, annulus pressure, pit gain.
13. Shut in annulus valves on wellhead and bleed of return line through the choke.

IV. Well Control Procedure (Remediation – Bradenhead squeeze)

a. If well is static:

1. Rig up cement pump to annulus wellhead valve
2. Close choke and cement head
3. Pump planned cement volume down annulus
4. Shut-in the well and record pressures and pit levels
5. Record time, SICP, annulus pressure.
6. Shut in annulus valves on wellhead and bleed of return line through the choke.

b. If well is not static:

1. Rig up mud pump to annulus wellhead valve as shown in Figure 2.
2. Close choke and cement head
3. Bullhead kill fluid down annulus while monitoring casing pressure.
4. Shut-in the well and record pressures and pit levels.
5. Once well kill is confirmed, continue with cement remediation.

FIGURE 2: Well Control

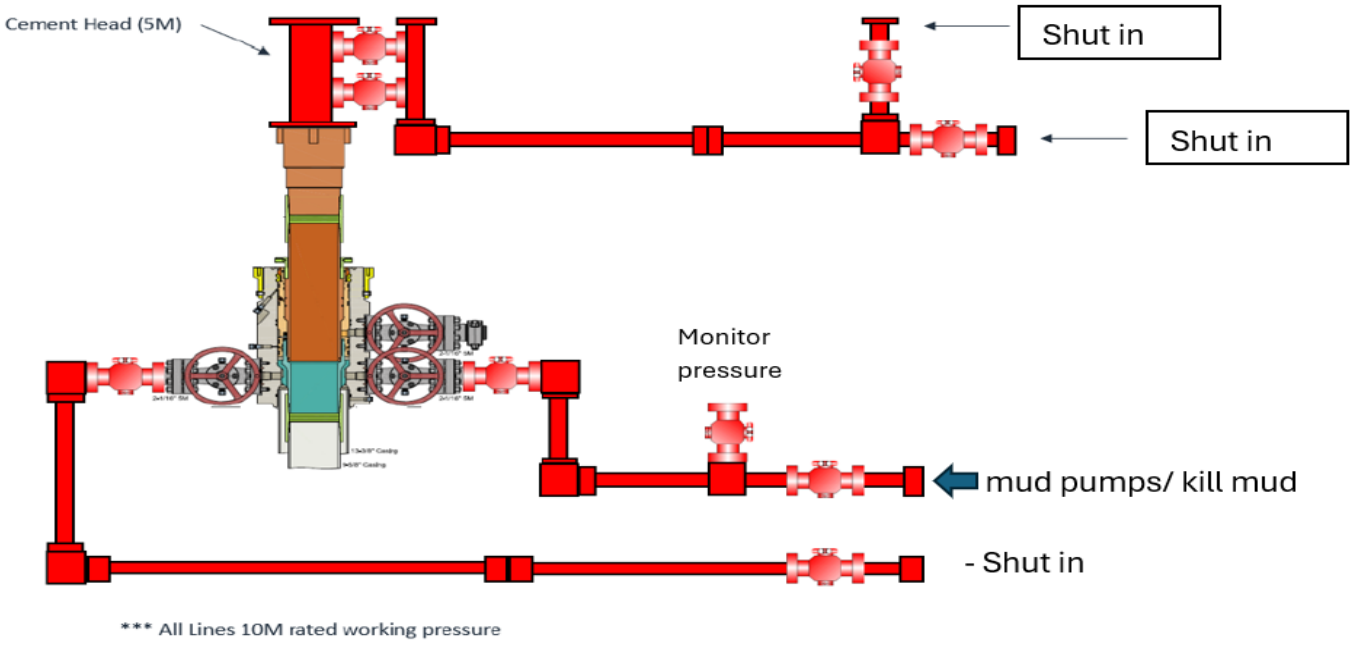
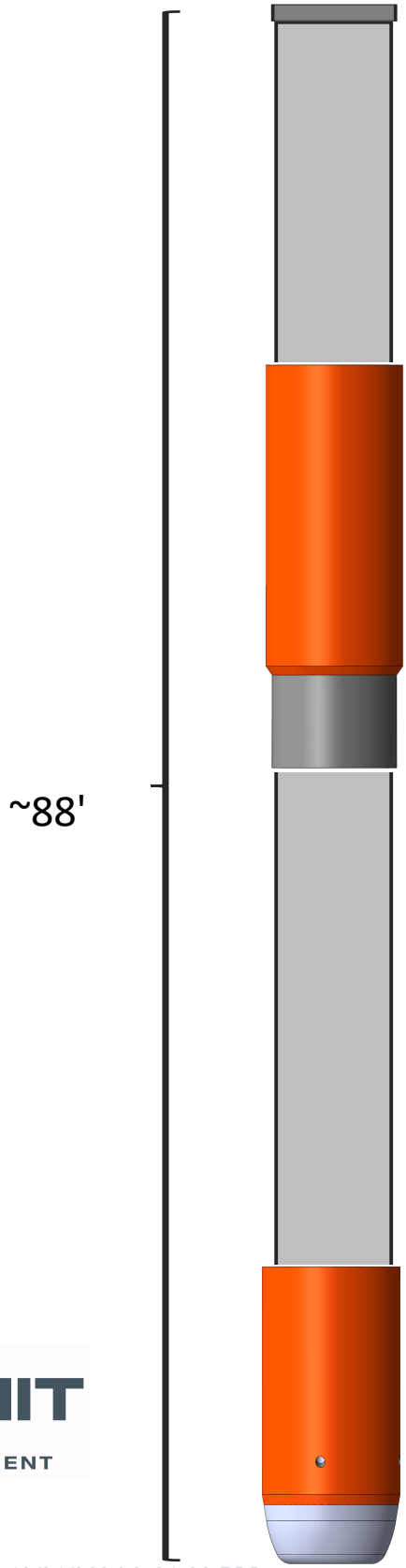


Figure 1: Shoe Assembly - Intermediate



42'
Full Length Joint

Float Collar - 1.78'

~88'

42'
Full Length Joint

Float Shoe - 1.80'

SUMMIT
CASING EQUIPMENT

Tanner Osborn
432-813-3595

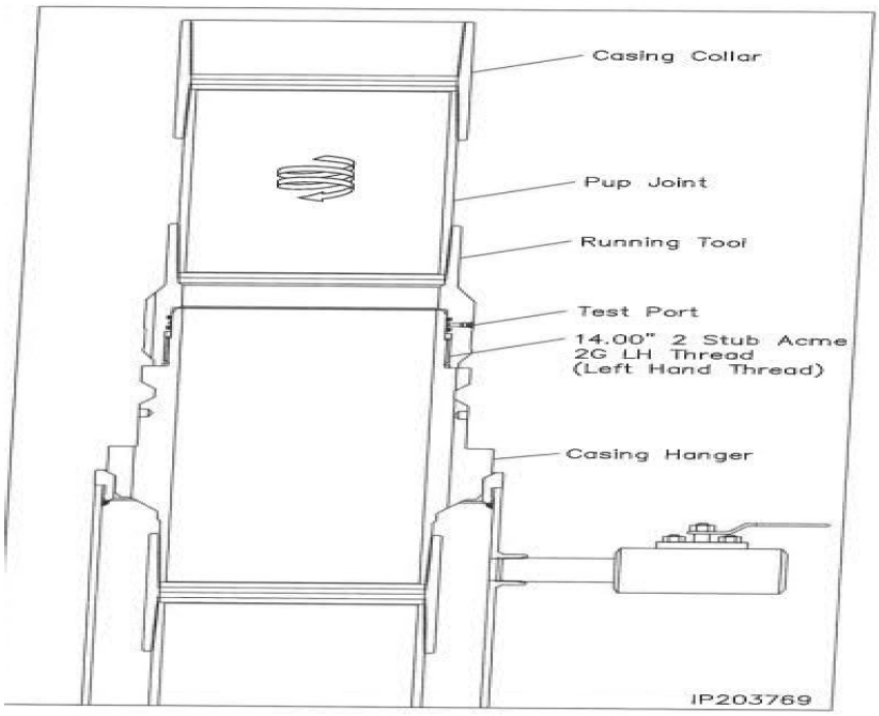
Offline Cementing Summary – Surface Casing

No changes to the cement program will take place for offline cementing.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and test back pressure valves.
    - **a.** Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land casing on mandrel hanger.
    - **a.** If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online**.
    - **b.** Shoe assembly shown in Figure 1.
3. Break circulation and confirm no restrictions.
    - **a.** Ensure no blockage of float equipment and appropriate annular returns.
    - **b.** Perform flow check to confirm well is static.
5. With the well secured and BLM notified, nipple down diverter and secure with 5k cement adaptor and cement head.
    - **a. Note: If the well does not remain static, the diverter will not be nippled down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.**
6. Skid/Walk rig off current well.
7. Confirm well is static before beginning cement job.
    - **a.** Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
    - **b.** Casing outlet valves will provide access to the annulus, cement head will provide access to the casing. Rig or third party pump truck will establish circulation while monitoring returns prior to cementing.
    - **c.** If need be, rig can be moved back over well and diverter nippled back up for any further remediation.
8. Rig up return lines to take returns from wellhead to pits
9. Rig up cementing lines.
    - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
10. Break circulation on well to confirm no restrictions while monitoring returns.
    - a. Max anticipated time before circulating with cement truck is 6 hrs.
11. Pump cement job as per plan.
    - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
    - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
    - c. If cement is not circulated to surface, a CBL will be run to confirm top of cement.
        1. If remediation is required, rig will be skid back over the well to take corrective action.
12. Confirm well is static and floats are holding after cement job.
    - a. With floats holding and backside static:
        - i. Remove cement head.
    - b. If floats are leaking:
        - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
    - c. If there is flow on the backside:
        - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
13. Remove offline cement tool.
14. Install night cap with pressure gauge for monitoring.

Appendix

I. Cementing Instrumentation Diagram



II. Well Control Procedure (Remediation – Bradenhead squeeze)

1. Rig up cement pump to annulus valve
2. Close choke and cement head
3. Pump planned cement volume down annulus
4. Shut-in the well and record pressures and pit levels
5. Record time, SICP.
6. Shut in annulus valves and bleed off surface line.

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-025-53624	37570	LEA; BONE SPRING	
Property Code	Property Name		Well Number
336288	LEA UNIT		203H
OGRID No.	Operator Name		Ground Level Elevation
330396	AVANT OPERATING, LLC		3652.5

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal | Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	14	20 S	34 E		2483 FSL	1300 FEL	32.5727036° N	103.5265454° W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	11	20 S	34 E		100 FNL	770 FEL	32.5946012° N	103.5248293° W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
240	Infill	30-025-02428	No	
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	14	20 S	34 E		2590 FNL	770 FEL	32.5732466° N	103.5248252° W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	14	20 S	34 E		2540 FNL	770 FEL	32.5733840° N	103.5248252° W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	11	20 S	34 E		100 FNL	770 FEL	32.5946012° N	103.5248293° W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
NMNM070976X/NMNM070976B		

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division

Signature — Date: 10/25/2024

Meghan Twele
Printed Name

mtwele@outlook.com
E-mail Address

SURVEYOR CERTIFICATIONS

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.

JOHN A. VUKONICH NEW MEXICO 14831 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number: 14831

Date of Survey: 11/9/23 10/25/2024

Note: 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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

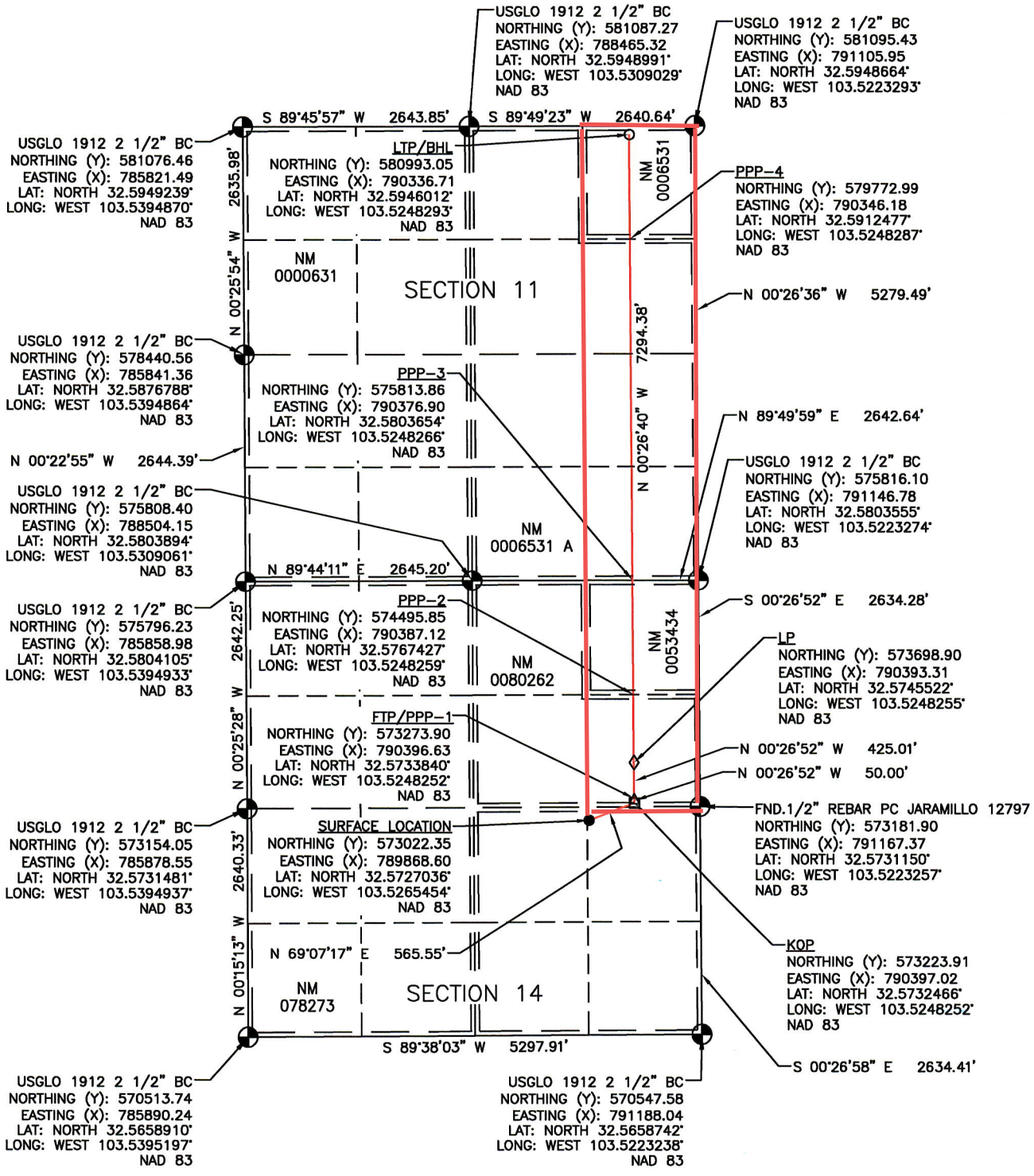
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

Plat Revised: 10/18/24

LEGEND:
- ● = SURFACE LOCATION (SHL)
- □ = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ◊ = LANDING POINT (LP)
- ○ = LTP/BHL
- ◒ = FOUND MONUMENT

NOTE: BEARINGS AND DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE, NAD 83, UNLESS OTHERWISE NOTED

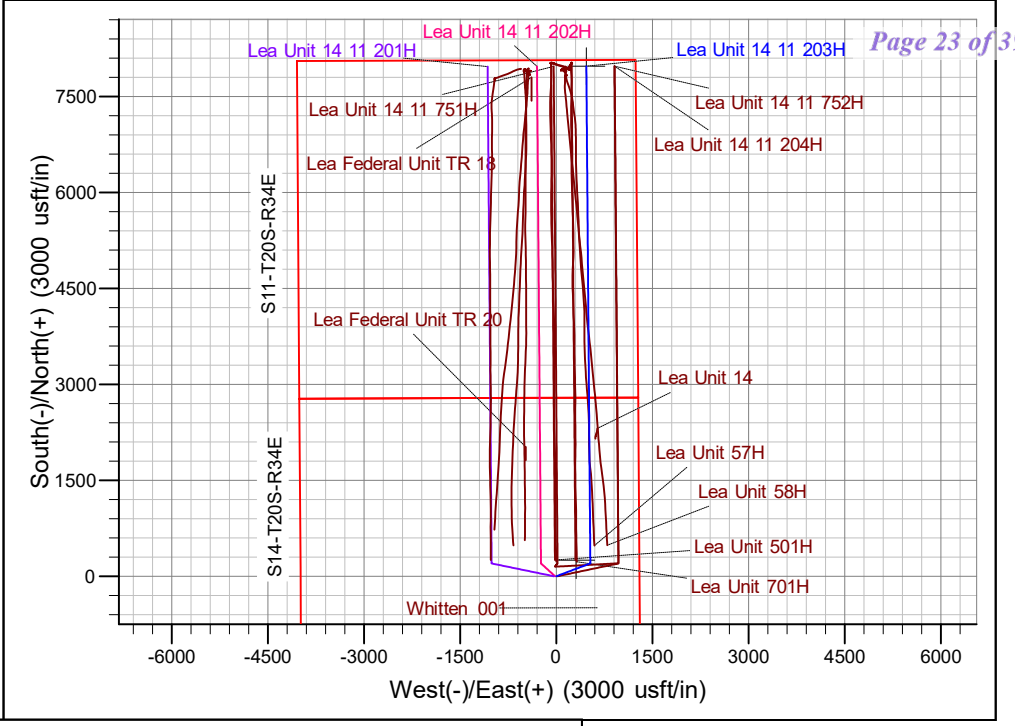
FOOTAGES		
SHL	2483' FSL	1300' FEL
KOP	2590' FNL	770' FEL
FTP/PPP-1	2540' FNL	770' FEL
LP	2115' FNL	770' FEL
PPP-2	1318' FNL	770' FEL
PPP-3	0' FNL	770' FEL
PPP-4	1320' FNL	770' FEL
LTP/BHL	100' FNL	770' FEL



AVANT NATURAL RESOURCES

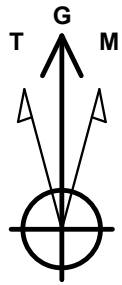
WELL DETAILS: Lea Unit 14 11 203H					
Ground Elev: 3652.0 KB: 3678.5					
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	573022.33	789868.60	32.572704	-103.526545

PROJECT DETAILS: Lea Co., NM (NAD 83)	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level



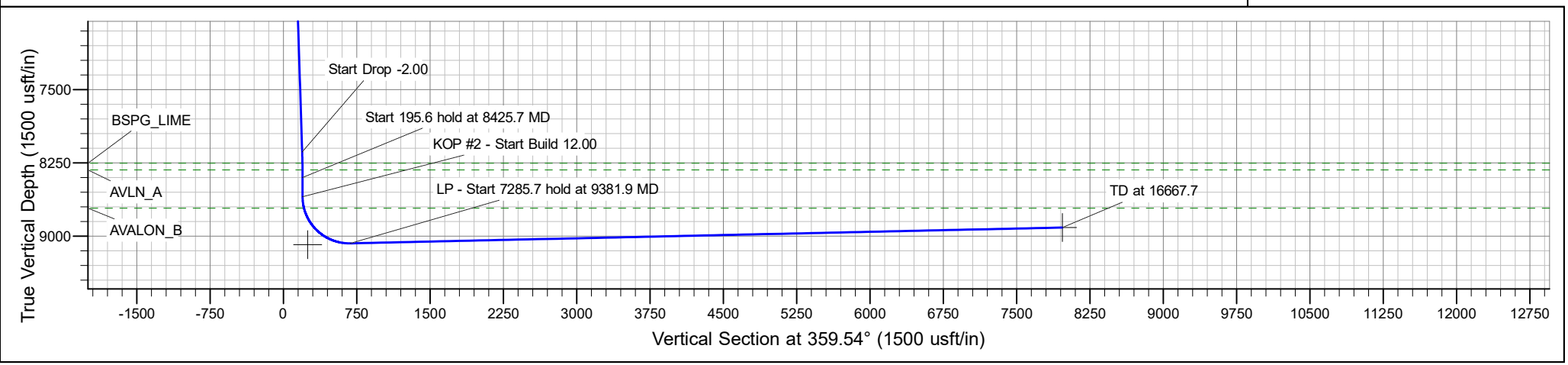
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 2.00
3	2263.7	5.27	69.33	2263.4	4.3	11.3	2.00	69.33	4.2	Start 5898.3 hold at 2263.7 MD
4	8162.0	5.27	69.33	8136.6	195.7	518.7	0.00	0.00	191.5	Start Drop -2.00
5	8425.7	0.00	0.00	8400.0	200.0	530.0	2.00	180.00	195.7	Start 195.6 hold at 8425.7 MD
6	8621.4	0.00	0.00	8595.6	200.0	530.0	0.00	0.00	195.7	KOP #2 - Start Build 12.00
7	9381.9	91.27	359.54	9073.0	688.0	526.1	12.00	359.54	683.8	LP - Start 7285.7 hold at 9381.9 MD
8	16667.7	91.27	359.54	8911.5	7971.7	468.1	0.00	0.00	7967.7	TD at 16667.7



Azimuths to Grid North
True North: -0.43°
Magnetic North: 8.13°

Magnetic Field
Strength: 49639.3nT
Dip Angle: 60.78°
Date: 12/31/2004
Model: IGRF2000



Avant Operating, LLC

Lea Co., NM (NAD 83)
Lea Unit 14 11
Lea Unit 14 11 203H

OH

Plan: Plan 0.1

Standard Planning Report

16 October, 2024

Planning Report

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit 14 11 203H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3678.5usft (3678.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 3678.5usft (3678.5)
Site:	Lea Unit 14 11	**North Reference:**	Grid
Well:	Lea Unit 14 11 203H	**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 Lea Unit 14 11

Site Position:		**Northing:**	573,022.18 usft	**Latitude:**	32.572704
From:	Lat/Long	**Easting:**	789,828.61 usft	**Longitude:**	-103.526675
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Lea Unit 14 11 203H

Well Position	**+N/-S**	0.0 usft	**Northing:**	573,022.34 usft	**Latitude:**	32.572704
	+E/-W	0.0 usft	**Easting:**	789,868.59 usft	**Longitude:**	-103.526546
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,652.0 usft
Grid Convergence:		0.43 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.57	60.78	49,639.31566762

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	359.54

Plan Survey Tool Program **Date** 10/16/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,667.7	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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,263.7	5.27	69.33	2,263.4	4.3	11.3	2.00	2.00	0.00	69.33	
8,162.0	5.27	69.33	8,136.6	195.7	518.7	0.00	0.00	0.00	0.00	
8,425.7	0.00	0.00	8,400.0	200.0	530.0	2.00	-2.00	0.00	180.00	
8,621.4	0.00	0.00	8,595.6	200.0	530.0	0.00	0.00	0.00	0.00	
9,381.9	91.27	359.54	9,073.0	688.0	526.1	12.00	12.00	0.00	359.54	
16,667.7	91.27	359.54	8,911.5	7,971.7	468.1	0.00	0.00	0.00	0.00	Lea Unit 14 11 203H l

Planning Report

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit 14 11 203H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3678.5usft (3678.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 3678.5usft (3678.5)
Site:	Lea Unit 14 11	**North Reference:**	Grid
Well:	Lea Unit 14 11 203H	**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
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,501.0	0.00	0.00	1,501.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER									
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
KOP - Start Build 2.00									
2,100.0	2.00	69.33	2,100.0	0.6	1.6	0.6	2.00	2.00	0.00
2,200.0	4.00	69.33	2,199.8	2.5	6.5	2.4	2.00	2.00	0.00
2,263.7	5.27	69.33	2,263.4	4.3	11.3	4.2	2.00	2.00	0.00
Start 5898.3 hold at 2263.7 MD									
2,300.0	5.27	69.33	2,299.5	5.5	14.5	5.3	0.00	0.00	0.00
2,400.0	5.27	69.33	2,399.1	8.7	23.1	8.5	0.00	0.00	0.00
2,500.0	5.27	69.33	2,498.6	12.0	31.7	11.7	0.00	0.00	0.00
2,600.0	5.27	69.33	2,598.2	15.2	40.3	14.9	0.00	0.00	0.00
2,700.0	5.27	69.33	2,697.8	18.4	48.9	18.0	0.00	0.00	0.00
2,800.0	5.27	69.33	2,797.4	21.7	57.5	21.2	0.00	0.00	0.00
2,900.0	5.27	69.33	2,896.9	24.9	66.1	24.4	0.00	0.00	0.00
3,000.0	5.27	69.33	2,996.5	28.2	74.7	27.6	0.00	0.00	0.00
3,100.0	5.27	69.33	3,096.1	31.4	83.3	30.8	0.00	0.00	0.00
3,200.0	5.27	69.33	3,195.7	34.7	91.9	33.9	0.00	0.00	0.00
3,300.0	5.27	69.33	3,295.2	37.9	100.5	37.1	0.00	0.00	0.00
3,400.0	5.27	69.33	3,394.8	41.2	109.1	40.3	0.00	0.00	0.00
3,500.0	5.27	69.33	3,494.4	44.4	117.7	43.5	0.00	0.00	0.00
3,539.8	5.27	69.33	3,534.0	45.7	121.1	44.7	0.00	0.00	0.00
YATES									
3,600.0	5.27	69.33	3,594.0	47.7	126.3	46.6	0.00	0.00	0.00
3,700.0	5.27	69.33	3,693.5	50.9	134.9	49.8	0.00	0.00	0.00
3,800.0	5.27	69.33	3,793.1	54.1	143.5	53.0	0.00	0.00	0.00
3,900.0	5.27	69.33	3,892.7	57.4	152.1	56.2	0.00	0.00	0.00
4,000.0	5.27	69.33	3,992.3	60.6	160.7	59.3	0.00	0.00	0.00
4,100.0	5.27	69.33	4,091.9	63.9	169.3	62.5	0.00	0.00	0.00
4,200.0	5.27	69.33	4,191.4	67.1	177.9	65.7	0.00	0.00	0.00
4,300.0	5.27	69.33	4,291.0	70.4	186.5	68.9	0.00	0.00	0.00
4,400.0	5.27	69.33	4,390.6	73.6	195.1	72.0	0.00	0.00	0.00
4,500.0	5.27	69.33	4,490.2	76.9	203.7	75.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit 14 11 203H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3678.5usft (3678.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 3678.5usft (3678.5)
Site:	Lea Unit 14 11	**North Reference:**	Grid
Well:	Lea Unit 14 11 203H	**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)
4,600.0	5.27	69.33	4,589.7	80.1	212.3	78.4	0.00	0.00	0.00
4,700.0	5.27	69.33	4,689.3	83.4	220.9	81.6	0.00	0.00	0.00
4,800.0	5.27	69.33	4,788.9	86.6	229.5	84.8	0.00	0.00	0.00
4,900.0	5.27	69.33	4,888.5	89.8	238.1	87.9	0.00	0.00	0.00
5,000.0	5.27	69.33	4,988.0	93.1	246.7	91.1	0.00	0.00	0.00
5,100.0	5.27	69.33	5,087.6	96.3	255.3	94.3	0.00	0.00	0.00
5,200.0	5.27	69.33	5,187.2	99.6	263.9	97.5	0.00	0.00	0.00
5,300.0	5.27	69.33	5,286.8	102.8	272.5	100.6	0.00	0.00	0.00
5,400.0	5.27	69.33	5,386.3	106.1	281.1	103.8	0.00	0.00	0.00
5,500.0	5.27	69.33	5,485.9	109.3	289.7	107.0	0.00	0.00	0.00
5,600.0	5.27	69.33	5,585.5	112.6	298.3	110.2	0.00	0.00	0.00
5,700.0	5.27	69.33	5,685.1	115.8	306.9	113.3	0.00	0.00	0.00
5,789.3	5.27	69.33	5,774.0	118.7	314.6	116.2	0.00	0.00	0.00
CHERRY_CNYN									
5,800.0	5.27	69.33	5,784.7	119.1	315.5	116.5	0.00	0.00	0.00
5,900.0	5.27	69.33	5,884.2	122.3	324.1	119.7	0.00	0.00	0.00
6,000.0	5.27	69.33	5,983.8	125.5	332.7	122.9	0.00	0.00	0.00
6,100.0	5.27	69.33	6,083.4	128.8	341.3	126.0	0.00	0.00	0.00
6,200.0	5.27	69.33	6,183.0	132.0	349.9	129.2	0.00	0.00	0.00
6,300.0	5.27	69.33	6,282.5	135.3	358.5	132.4	0.00	0.00	0.00
6,400.0	5.27	69.33	6,382.1	138.5	367.1	135.6	0.00	0.00	0.00
6,500.0	5.27	69.33	6,481.7	141.8	375.7	138.8	0.00	0.00	0.00
6,600.0	5.27	69.33	6,581.3	145.0	384.3	141.9	0.00	0.00	0.00
6,677.1	5.27	69.33	6,658.0	147.5	390.9	144.4	0.00	0.00	0.00
BRUSHY_CANYON									
6,700.0	5.27	69.33	6,680.8	148.3	392.9	145.1	0.00	0.00	0.00
6,800.0	5.27	69.33	6,780.4	151.5	401.5	148.3	0.00	0.00	0.00
6,900.0	5.27	69.33	6,880.0	154.8	410.1	151.5	0.00	0.00	0.00
7,000.0	5.27	69.33	6,979.6	158.0	418.7	154.6	0.00	0.00	0.00
7,100.0	5.27	69.33	7,079.1	161.2	427.3	157.8	0.00	0.00	0.00
7,200.0	5.27	69.33	7,178.7	164.5	435.9	161.0	0.00	0.00	0.00
7,300.0	5.27	69.33	7,278.3	167.7	444.5	164.2	0.00	0.00	0.00
7,400.0	5.27	69.33	7,377.9	171.0	453.1	167.3	0.00	0.00	0.00
7,500.0	5.27	69.33	7,477.5	174.2	461.7	170.5	0.00	0.00	0.00
7,600.0	5.27	69.33	7,577.0	177.5	470.3	173.7	0.00	0.00	0.00
7,700.0	5.27	69.33	7,676.6	180.7	478.9	176.9	0.00	0.00	0.00
7,800.0	5.27	69.33	7,776.2	184.0	487.5	180.0	0.00	0.00	0.00
7,900.0	5.27	69.33	7,875.8	187.2	496.1	183.2	0.00	0.00	0.00
8,000.0	5.27	69.33	7,975.3	190.5	504.7	186.4	0.00	0.00	0.00
8,100.0	5.27	69.33	8,074.9	193.7	513.3	189.6	0.00	0.00	0.00
8,162.0	5.27	69.33	8,136.6	195.7	518.7	191.5	0.00	0.00	0.00
Start Drop -2.00									
8,200.0	4.51	69.33	8,174.5	196.9	521.7	192.7	2.00	-2.00	0.00
8,278.7	2.94	69.33	8,253.0	198.7	526.5	194.4	2.00	-2.00	0.00
BSPG_LIME									
8,300.0	2.51	69.33	8,274.3	199.0	527.4	194.8	2.00	-2.00	0.00
8,347.7	1.56	69.33	8,322.0	199.6	529.0	195.4	2.00	-2.00	0.00
AVLN_A									
8,400.0	0.51	69.33	8,374.3	200.0	529.9	195.7	2.00	-2.00	0.00
8,425.7	0.00	0.00	8,400.0	200.0	530.0	195.7	2.00	-2.00	0.00
Start 195.6 hold at 8425.7 MD									
8,500.0	0.00	0.00	8,474.3	200.0	530.0	195.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,574.3	200.0	530.0	195.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit 14 11 203H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3678.5usft (3678.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 3678.5usft (3678.5)
Site:	Lea Unit 14 11	**North Reference:**	Grid
Well:	Lea Unit 14 11 203H	**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)
8,621.4	0.00	0.00	8,595.6	200.0	530.0	195.7	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
8,625.0	0.44	359.54	8,599.3	200.0	530.0	195.8	12.00	12.00	0.00
8,650.0	3.44	359.54	8,624.3	200.9	530.0	196.6	12.00	12.00	0.00
8,675.0	6.44	359.54	8,649.2	203.0	530.0	198.7	12.00	12.00	0.00
8,700.0	9.44	359.54	8,673.9	206.5	529.9	202.2	12.00	12.00	0.00
8,725.0	12.44	359.54	8,698.5	211.2	529.9	206.9	12.00	12.00	0.00
8,741.0	14.35	359.54	8,714.0	214.9	529.9	210.6	12.00	12.00	0.00
AVALON_B									
8,750.0	15.44	359.54	8,722.7	217.2	529.9	213.0	12.00	12.00	0.00
8,775.0	18.44	359.54	8,746.6	224.5	529.8	220.2	12.00	12.00	0.00
8,800.0	21.44	359.54	8,770.1	233.0	529.7	228.8	12.00	12.00	0.00
8,825.0	24.44	359.54	8,793.2	242.8	529.7	238.5	12.00	12.00	0.00
8,850.0	27.44	359.54	8,815.6	253.7	529.6	249.4	12.00	12.00	0.00
8,875.0	30.44	359.54	8,837.5	265.8	529.5	261.5	12.00	12.00	0.00
8,900.0	33.44	359.54	8,858.7	279.0	529.4	274.8	12.00	12.00	0.00
8,925.0	36.44	359.54	8,879.2	293.3	529.3	289.1	12.00	12.00	0.00
8,950.0	39.44	359.54	8,898.9	308.7	529.1	304.4	12.00	12.00	0.00
8,975.0	42.44	359.54	8,917.8	325.1	529.0	320.8	12.00	12.00	0.00
9,000.0	45.44	359.54	8,935.8	342.4	528.9	338.2	12.00	12.00	0.00
9,025.0	48.44	359.54	8,952.9	360.7	528.7	356.4	12.00	12.00	0.00
9,028.7	48.88	359.54	8,955.3	363.4	528.7	359.2	12.00	12.00	0.00
Lea Unit 14 11 203H FTP									
9,050.0	51.44	359.54	8,969.0	379.8	528.6	375.6	12.00	12.00	0.00
9,075.0	54.44	359.54	8,984.0	399.8	528.4	395.5	12.00	12.00	0.00
9,100.0	57.44	359.54	8,998.0	420.5	528.2	416.2	12.00	12.00	0.00
9,125.0	60.44	359.54	9,010.9	441.9	528.1	437.6	12.00	12.00	0.00
9,150.0	63.44	359.54	9,022.7	463.9	527.9	459.7	12.00	12.00	0.00
9,175.0	66.44	359.54	9,033.3	486.6	527.7	482.3	12.00	12.00	0.00
9,200.0	69.44	359.54	9,042.7	509.8	527.5	505.5	12.00	12.00	0.00
9,225.0	72.44	359.54	9,050.8	533.4	527.3	529.1	12.00	12.00	0.00
9,250.0	75.44	359.54	9,057.8	557.4	527.2	553.2	12.00	12.00	0.00
9,275.0	78.44	359.54	9,063.4	581.8	527.0	577.5	12.00	12.00	0.00
9,300.0	81.44	359.54	9,067.8	606.4	526.8	602.1	12.00	12.00	0.00
9,325.0	84.44	359.54	9,070.8	631.2	526.6	626.9	12.00	12.00	0.00
9,350.0	87.44	359.54	9,072.6	656.1	526.4	651.9	12.00	12.00	0.00
9,375.0	90.44	359.54	9,073.1	681.1	526.2	676.9	12.00	12.00	0.00
9,381.9	91.27	359.54	9,073.0	688.0	526.1	683.8	12.00	12.00	0.00
LP - Start 7285.7 hold at 9381.9 MD									
9,400.0	91.27	359.54	9,072.6	706.1	526.0	701.8	0.00	0.00	0.00
9,500.0	91.27	359.54	9,070.4	806.1	525.2	801.8	0.00	0.00	0.00
9,600.0	91.27	359.54	9,068.1	906.0	524.4	901.8	0.00	0.00	0.00
9,700.0	91.27	359.54	9,065.9	1,006.0	523.6	1,001.8	0.00	0.00	0.00
9,800.0	91.27	359.54	9,063.7	1,106.0	522.8	1,101.7	0.00	0.00	0.00
9,900.0	91.27	359.54	9,061.5	1,206.0	522.0	1,201.7	0.00	0.00	0.00
10,000.0	91.27	359.54	9,059.3	1,305.9	521.2	1,301.7	0.00	0.00	0.00
10,100.0	91.27	359.54	9,057.1	1,405.9	520.4	1,401.7	0.00	0.00	0.00
10,200.0	91.27	359.54	9,054.8	1,505.9	519.6	1,501.6	0.00	0.00	0.00
10,300.0	91.27	359.54	9,052.6	1,605.8	518.8	1,601.6	0.00	0.00	0.00
10,400.0	91.27	359.54	9,050.4	1,705.8	518.0	1,701.6	0.00	0.00	0.00
10,500.0	91.27	359.54	9,048.2	1,805.8	517.2	1,801.6	0.00	0.00	0.00
10,600.0	91.27	359.54	9,046.0	1,905.8	516.4	1,901.6	0.00	0.00	0.00
10,700.0	91.27	359.54	9,043.8	2,005.7	515.6	2,001.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit 14 11 203H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3678.5usft (3678.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 3678.5usft (3678.5)
Site:	Lea Unit 14 11	**North Reference:**	Grid
Well:	Lea Unit 14 11 203H	**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)
10,800.0	91.27	359.54	9,041.6	2,105.7	514.8	2,101.5	0.00	0.00	0.00
10,900.0	91.27	359.54	9,039.3	2,205.7	514.0	2,201.5	0.00	0.00	0.00
11,000.0	91.27	359.54	9,037.1	2,305.6	513.2	2,301.5	0.00	0.00	0.00
11,100.0	91.27	359.54	9,034.9	2,405.6	512.4	2,401.4	0.00	0.00	0.00
11,200.0	91.27	359.54	9,032.7	2,505.6	511.6	2,501.4	0.00	0.00	0.00
11,300.0	91.27	359.54	9,030.5	2,605.6	510.8	2,601.4	0.00	0.00	0.00
11,400.0	91.27	359.54	9,028.3	2,705.5	510.0	2,701.4	0.00	0.00	0.00
11,500.0	91.27	359.54	9,026.0	2,805.5	509.3	2,801.3	0.00	0.00	0.00
11,600.0	91.27	359.54	9,023.8	2,905.5	508.5	2,901.3	0.00	0.00	0.00
11,700.0	91.27	359.54	9,021.6	3,005.5	507.7	3,001.3	0.00	0.00	0.00
11,800.0	91.27	359.54	9,019.4	3,105.4	506.9	3,101.3	0.00	0.00	0.00
11,900.0	91.27	359.54	9,017.2	3,205.4	506.1	3,201.2	0.00	0.00	0.00
12,000.0	91.27	359.54	9,015.0	3,305.4	505.3	3,301.2	0.00	0.00	0.00
12,100.0	91.27	359.54	9,012.7	3,405.3	504.5	3,401.2	0.00	0.00	0.00
12,200.0	91.27	359.54	9,010.5	3,505.3	503.7	3,501.2	0.00	0.00	0.00
12,300.0	91.27	359.54	9,008.3	3,605.3	502.9	3,601.1	0.00	0.00	0.00
12,400.0	91.27	359.54	9,006.1	3,705.3	502.1	3,701.1	0.00	0.00	0.00
12,500.0	91.27	359.54	9,003.9	3,805.2	501.3	3,801.1	0.00	0.00	0.00
12,600.0	91.27	359.54	9,001.7	3,905.2	500.5	3,901.1	0.00	0.00	0.00
12,700.0	91.27	359.54	8,999.4	4,005.2	499.7	4,001.0	0.00	0.00	0.00
12,800.0	91.27	359.54	8,997.2	4,105.1	498.9	4,101.0	0.00	0.00	0.00
12,900.0	91.27	359.54	8,995.0	4,205.1	498.1	4,201.0	0.00	0.00	0.00
13,000.0	91.27	359.54	8,992.8	4,305.1	497.3	4,301.0	0.00	0.00	0.00
13,100.0	91.27	359.54	8,990.6	4,405.1	496.5	4,400.9	0.00	0.00	0.00
13,200.0	91.27	359.54	8,988.4	4,505.0	495.7	4,500.9	0.00	0.00	0.00
13,300.0	91.27	359.54	8,986.1	4,605.0	494.9	4,600.9	0.00	0.00	0.00
13,400.0	91.27	359.54	8,983.9	4,705.0	494.1	4,700.9	0.00	0.00	0.00
13,500.0	91.27	359.54	8,981.7	4,805.0	493.3	4,800.8	0.00	0.00	0.00
13,600.0	91.27	359.54	8,979.5	4,904.9	492.5	4,900.8	0.00	0.00	0.00
13,700.0	91.27	359.54	8,977.3	5,004.9	491.7	5,000.8	0.00	0.00	0.00
13,800.0	91.27	359.54	8,975.1	5,104.9	490.9	5,100.8	0.00	0.00	0.00
13,900.0	91.27	359.54	8,972.8	5,204.8	490.1	5,200.7	0.00	0.00	0.00
14,000.0	91.27	359.54	8,970.6	5,304.8	489.3	5,300.7	0.00	0.00	0.00
14,100.0	91.27	359.54	8,968.4	5,404.8	488.6	5,400.7	0.00	0.00	0.00
14,200.0	91.27	359.54	8,966.2	5,504.8	487.8	5,500.7	0.00	0.00	0.00
14,300.0	91.27	359.54	8,964.0	5,604.7	487.0	5,600.6	0.00	0.00	0.00
14,400.0	91.27	359.54	8,961.8	5,704.7	486.2	5,700.6	0.00	0.00	0.00
14,500.0	91.27	359.54	8,959.5	5,804.7	485.4	5,800.6	0.00	0.00	0.00
14,600.0	91.27	359.54	8,957.3	5,904.6	484.6	5,900.6	0.00	0.00	0.00
14,700.0	91.27	359.54	8,955.1	6,004.6	483.8	6,000.5	0.00	0.00	0.00
14,800.0	91.27	359.54	8,952.9	6,104.6	483.0	6,100.5	0.00	0.00	0.00
14,900.0	91.27	359.54	8,950.7	6,204.6	482.2	6,200.5	0.00	0.00	0.00
15,000.0	91.27	359.54	8,948.5	6,304.5	481.4	6,300.5	0.00	0.00	0.00
15,100.0	91.27	359.54	8,946.2	6,404.5	480.6	6,400.4	0.00	0.00	0.00
15,200.0	91.27	359.54	8,944.0	6,504.5	479.8	6,500.4	0.00	0.00	0.00
15,300.0	91.27	359.54	8,941.8	6,604.5	479.0	6,600.4	0.00	0.00	0.00
15,400.0	91.27	359.54	8,939.6	6,704.4	478.2	6,700.4	0.00	0.00	0.00
15,500.0	91.27	359.54	8,937.4	6,804.4	477.4	6,800.3	0.00	0.00	0.00
15,600.0	91.27	359.54	8,935.2	6,904.4	476.6	6,900.3	0.00	0.00	0.00
15,700.0	91.27	359.54	8,932.9	7,004.3	475.8	7,000.3	0.00	0.00	0.00
15,800.0	91.27	359.54	8,930.7	7,104.3	475.0	7,100.3	0.00	0.00	0.00
15,900.0	91.27	359.54	8,928.5	7,204.3	474.2	7,200.2	0.00	0.00	0.00
16,000.0	91.27	359.54	8,926.3	7,304.3	473.4	7,300.2	0.00	0.00	0.00
16,100.0	91.27	359.54	8,924.1	7,404.2	472.6	7,400.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit 14 11 203H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3678.5usft (3678.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 3678.5usft (3678.5)
Site:	Lea Unit 14 11	**North Reference:**	Grid
Well:	Lea Unit 14 11 203H	**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)
16,200.0	91.27	359.54	8,921.9	7,504.2	471.8	7,500.2	0.00	0.00	0.00
16,300.0	91.27	359.54	8,919.6	7,604.2	471.0	7,600.2	0.00	0.00	0.00
16,400.0	91.27	359.54	8,917.4	7,704.1	470.2	7,700.1	0.00	0.00	0.00
16,500.0	91.27	359.54	8,915.2	7,804.1	469.4	7,800.1	0.00	0.00	0.00
16,600.0	91.27	359.54	8,913.0	7,904.1	468.6	7,900.1	0.00	0.00	0.00
16,667.7	91.27	359.54	8,911.5	7,971.7	468.1	7,967.7	0.00	0.00	0.00
TD at 16667.7 - Lea Unit 14 11 203H LTP/BHL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Lea Unit 14 11 203H LTI - plan hits target center - Point	0.00	0.01	8,911.5	7,971.7	468.1	580,994.08	790,336.70	32.594604	-103.524830
Lea Unit 14 11 203H FTI - plan misses target center by 280.5usft at 9028.7usft MD (8955.3 TVD, 363.4 N, 528.7 E) - Point	0.00	0.01	9,087.0	250.9	308.0	573,273.28	790,176.61	32.573387	-103.525540

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
9,000.0	LP		5-1/2	6

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,501.0	1,501.0	RUSTLER			
3,539.8	3,534.0	YATES			
5,789.3	5,774.0	CHERRY_CNYN			
6,677.1	6,658.0	BRUSHY_CANYON			
8,278.7	8,253.0	BSPG_LIME			
8,347.7	8,322.0	AVLN_A			
8,741.0	8,714.0	AVALON_B			

Planning Report

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Lea Unit 14 11 203H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3678.5usft (3678.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 3678.5usft (3678.5)
Site:	Lea Unit 14 11	**North Reference:**	Grid
Well:	Lea Unit 14 11 203H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	KOP - Start Build 2.00
2,263.7	2,263.4	4.3	11.3	Start 5898.3 hold at 2263.7 MD
8,162.0	8,136.6	195.7	518.7	Start Drop -2.00
8,425.7	8,400.0	200.0	530.0	Start 195.6 hold at 8425.7 MD
8,621.4	8,595.6	200.0	530.0	KOP #2 - Start Build 12.00
9,381.9	9,073.0	688.0	526.1	LP - Start 7285.7 hold at 9381.9 MD
16,667.7	8,911.5	7,971.7	468.1	TD at 16667.7

Well Name: LEA UNIT 14 11

Well Location: T20S / R34E / SEC 14 / NESE / 32.572704 / -103.526545

County or Parish/State: LEA / NM

Well Number: 203H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM080262

Unit or CA Name: LEA UNIT - BONE SPRINGS

Unit or CA Number: NMNM70976B

US Well Number: 3002553624

Operator: AVANT OPERATING LLC

Notice of Intent

Sundry ID: 2816582

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/11/2024

Time Sundry Submitted: 11:51

Date proposed operation will begin: 10/11/2024

Procedure Description: Avant Operating, LLC requests to update the name of this well, the Lea Unit 14 11 203H (API#30-025-53624), to comply with the unit naming convention. The name will change from the "Lea Unit 14 11 203H" to the "Lea Unit 203H", please see attached updated plat to reflect this change.

NOI Attachments

Procedure Description

Lea_Unit_203H_C_102__cert_10_8_24__20241011093957.pdf

Well Name: LEA UNIT 14 11

Well Location: T20S / R34E / SEC 14 / NESE / 32.572704 / -103.526545

County or Parish/State: LEA / NM

Well Number: 203H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM080262

Unit or CA Name: LEA UNIT - BONE SPRINGS

Unit or CA Number: NMNM70976B

US Well Number: 3002553624

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: MEGHAN TWELE

Signed on: OCT 11, 2024 11:51 AM

Name: AVANT OPERATING LLC

Title: Contract Regulatory Analyst

Street Address: 1515 WYNKOOP ST SUITE 700

City: DENVER **State:** CO

Phone: (720) 339-6880

Email address: MTWELE@OUTLOOK.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 11/05/2024

Signature: Long Vo

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

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

11. Country or Parish, State

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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete 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 OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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: NESE / 2483 FSL / 1300 FEL / TWSP: 20S / RANGE: 34E / SECTION: 14 / LAT: 32.572704 / LONG: -103.526545 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 1318 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 14 / LAT: 32.576745 / LONG: -103.52554 (TVD: 9000 feet, MD: 10518 feet)

PPP: SESE / 0 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 11 / LAT: 32.580368 / LONG: -103.525541 (TVD: 9000 feet, MD: 11836 feet)

PPP: SENE / 2540 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 14 / LAT: 32.573387 / LONG: -103.525539 (TVD: 9000 feet, MD: 9296 feet)

PPP: NENE / 1320 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 11 / LAT: 32.59125 / LONG: -103.525543 (TVD: 9000 feet, MD: 15369 feet)

BHL: NENE / 100 FNL / 990 FEL / TWSP: 20S / RANGE: 34E / SECTION: 11 / LAT: 32.594604 / LONG: -103.525544 (TVD: 9000 feet, MD: 16589 feet)

C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-025-53624	37570	Lea; Bone Spring	
Property Code: 336288	Property Name: LEA UNIT		Well Number: 203H
OGRID No.: 330396	Operator Name: AVANT OPERATING, LLC		Ground Level Elevation: 3652.5
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	14	20 S	34 E		2483 FSL	1300 FEL	32.5727036° N	103.5265454° W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	11	20 S	34 E		100 FNL	990 FEL	32.5946039° N	103.5255436° W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
249	Infill	30-025-02428	No	
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	14	20 S	34 E		2590 FNL	990 FEL	32.5732494° N	103.5255393° W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	14	20 S	34 E		2540 FNL	990 FEL	32.5733869° N	103.5255394° W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	11	20 S	34 E		100 FNL	990 FEL	32.5946039° N	103.5255436° W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
NMNM070976B		

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division

Signature — Date: 10/11/2024

Meghan Twele

Printed Name

mtwele@outlook.com

E-mail Address

SURVEYOR CERTIFICATIONS

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.

JOE A. YUKONICH NEW MEXICO 14831 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
14831	11/9/23 10/9/2024

Note: 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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

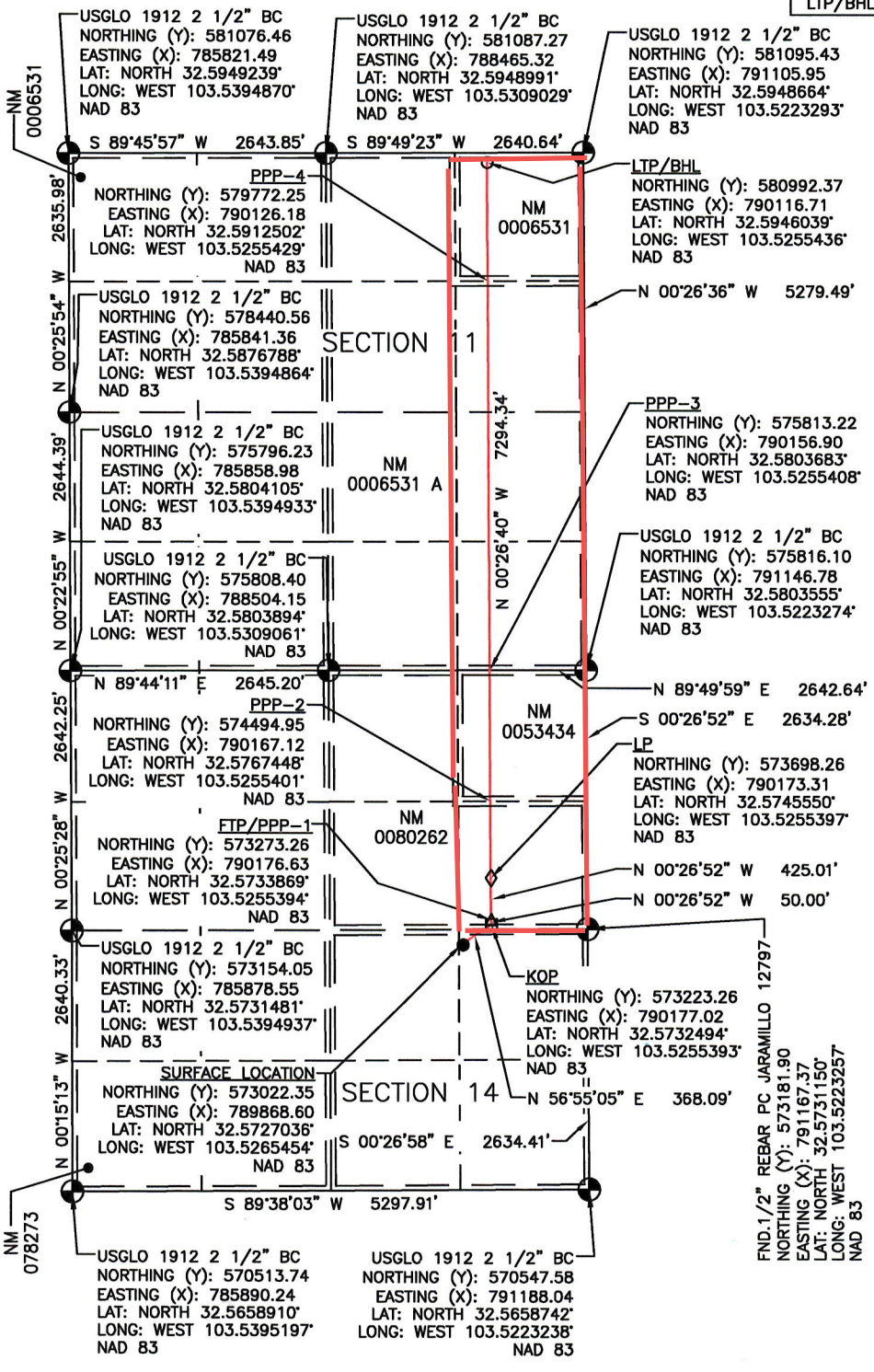
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

Plat Revised: 10/03/24

LEGEND:
- ● = SURFACE LOCATION (SHL)
- □ = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ◇ = LANDING POINT (LP)
- ○ = LTP/BHL
- ⊕ = FOUND MONUMENT

NOTE: BEARINGS AND DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE, NAD 83, UNLESS OTHERWISE NOTED

FOOTAGES		
SHL	2483' FSL	1300' FEL
KOP	2590' FNL	990' FEL
FTP/PPP-1	2540' FNL	990' FEL
LP	2115' FNL	990' FEL
PPP-2	1318' FNL	990' FEL
PPP-3	0' FNL	990' FEL
PPP-4	1320' FNL	990' FEL
LTP/BHL	100' FNL	990' FEL



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 400442
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	12/31/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/31/2024