

C-104 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**Section 1 - Operator and Well Information**

Submittal Type: ☒ Test Allowable (C-104RT) ☐ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: Avant Operating, LLC	OGRID: 330396
Property Name and Well Number: Lea Unit 203H	Property Code: 336288
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-025-53624
Pool Name: Lea; Bone Spring	Pool Code: 37570

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	14	20S	34E		2483 FSL	1300 FEL	32.572704	-103.526545	Lea

Section 3 – Completion Information

Producing Method Artificial Lift	Ready Date 3/01/2025	Perforations MD 9,311'-16,649'	Perforations TVD 9,063'-8,950'
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Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW):	Communitization Agreement ☐ Yes ☒ No, Order No.
Surface Casing Action ID: 417061	Unit: ☒ Yes ☐ No, Order No. NMNM070976X/NMNM070976B
Intermediate 1 Casing Action ID: 417061	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 417061	Surface Commingling: ☐ Yes ☒ No, Order No.
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID: n/a	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): No	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name Meghan Twele	
Title Contract Regulatory Analyst	Date 2/20/2025

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

WELL LOCATION INFORMATION

API Number 30-025-53624	Pool Code 37570	Pool Name LEA; BONE SPRING
Property Code 336288	Property Name LEA UNIT	Well Number 203H
OGRID No. 330396	Operator Name AVANT OPERATING, LLC	Ground Level Elevation 3653.6
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	32.5727038° 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	II	20 S	34 E		49 FNL	765 FEL	32.5947410° N	103.5248138° W	LEA

Dedicated Acres 240	Infill or Defining Well Infill	Defining Well API 30-025-02428	Overlapping Spacing Unit (Y/N) No	Consolidation Code
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	772 FEL	32.5732460° N	103.5248329° 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		2149 FNL	765 FEL	32.5744577° N	103.5248093° W	LEA

Last Take Point (LTP)

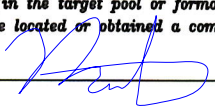
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	II	20 S	34 E		107 FNL	764 FEL	32.5945816° N	103.5248097° W	LEA

Unitized Area or Area of Uniform Interest NMNM070976X/NMNM070976B	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3681'
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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.

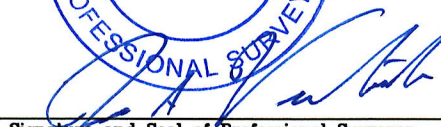
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or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

Signature  Date 2/20/2025
Printed Name Meghan Twele
E-mail Address mtwele@outlook.com

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. I further certify that United Field Services, Inc., located at 21 Road 3520 in Flora Vista, New Mexico is the company providing this information.



Signature and Seal of Professional Surveyor 
Certificate Number 14831 Date of Field Survey 1/21/25 Date of Certification 2/18/25

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.

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.

United Field Services, Inc., located at 21 Road 3520, Flora Vista, New Mexico, is the company providing this plat.

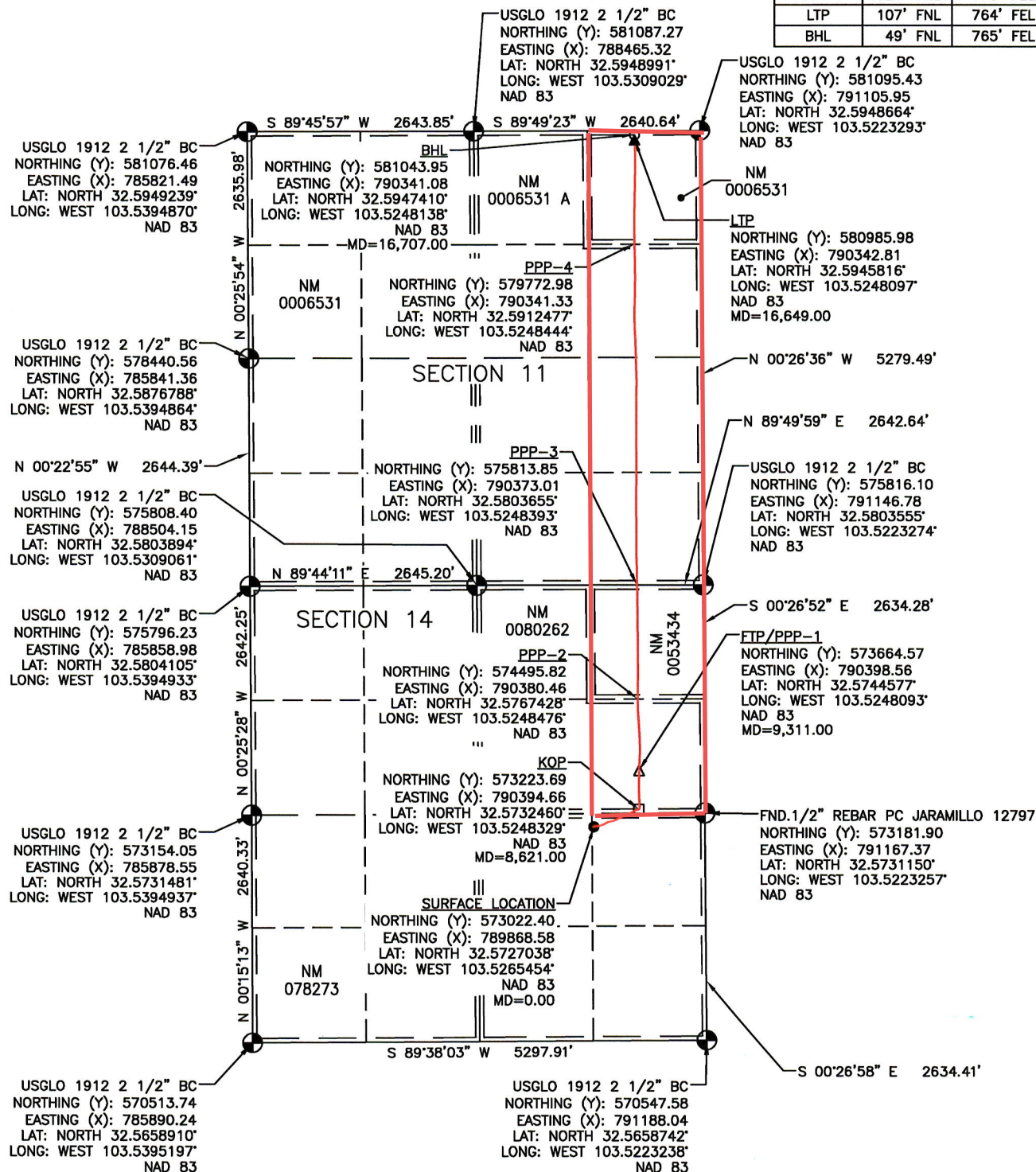
Plat Revised: 2/13/25

LEGEND:

- = SURFACE LOCATION (SHL)
- = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ▲ = LAST TAKE POINT (LTP)
- = BOTTOM HOLE LOCATION (BHL)
- ⊙ = FOUND MONUMENT

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

AVANT OPERATING, LLC			
LEA UNIT 14 11 203H			
FOOTAGES			SEC
SHL	2483' FSL	1300' FEL	14
KOP	2590' FNL	772' FEL	14
FTP/PPP-1	2149' FNL	765' FEL	14
PPP-2	1318' FNL	777' FEL	14
PPP-3	0' FSL	774' FEL	11
PPP-4	1320' FNL	775' FEL	11
LTP	107' FNL	764' FEL	11
BHL	49' FNL	765' FEL	11





AVANT OPERATING LLC

LEA COUNTY, NM (NMEZ) NAD83 GRID

LEA UNIT 200

Lea Unit 203H

LU 203H

Design: LU 203H AsDrilled

Standard Survey Report

14 January, 2025



Survey Report

Company:	AVANT OPERATING LLC	Local Co-ordinate Reference:	Well Lea Unit 203H
Project:	LEA COUNTY, NM (NMEZ) NAD83 GRID	TVD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Site:	LEA UNIT 200	MD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Well:	Lea Unit 203H	North Reference:	Grid
Wellbore:	LU 203H	Survey Calculation Method:	Minimum Curvature
Design:	LU 203H AsDrilled	Database:	EDM 5000.1 Single User Db

Project	LEA COUNTY, NM (NMEZ) NAD83 GRID		
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 200			
Site Position:		Northing:	573,022.35 usft	Latitude:	32.5727037
From:	Map	Easting:	789,868.60 usft	Longitude:	-103.5265454
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.43 °

Well	Lea Unit 203H					
Well Position	+N/-S	0.00 usft	Northing:	573,022.35 usft	Latitude:	32.5727037
	+E/-W	0.00 usft	Easting:	789,868.60 usft	Longitude:	-103.5265454
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,652.50 usft

Wellbore	LU 203H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/16/24	6.15	60.11	47,344.92527453

Design	LU 203H AsDrilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.54	

Survey Program	Date	01/14/25			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.00	16,643.00	Survey #1 (LU 203H)	MWD	OWSG MWD - Standard	
16,666.60	16,707.00	Survey #2 (LU 203H)	Projection	Projection	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LU 203H SHL 2483FSL_1300FEL									
200.00	0.64	339.28	200.00	1.04	-0.40	1.05	0.32	0.32	0.00
301.00	0.45	332.91	300.99	1.93	-0.78	1.93	0.20	-0.19	-6.31
397.00	0.32	312.71	396.99	2.44	-1.14	2.45	0.19	-0.14	-21.04
588.00	0.16	3.47	587.99	3.07	-1.52	3.08	0.13	-0.08	26.58
684.00	0.19	355.98	683.99	3.36	-1.52	3.38	0.04	0.03	-7.80
875.00	0.22	325.10	874.99	3.98	-1.75	3.99	0.06	0.02	-16.17
970.00	0.12	301.65	969.99	4.18	-1.94	4.20	0.13	-0.11	-24.68
1,160.00	0.04	240.43	1,159.99	4.25	-2.17	4.27	0.06	-0.04	-32.22

Survey Report

Company:	AVANT OPERATING LLC	Local Co-ordinate Reference:	Well Lea Unit 203H
Project:	LEA COUNTY, NM (NMEZ) NAD83 GRID	TVD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Site:	LEA UNIT 200	MD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Well:	Lea Unit 203H	North Reference:	Grid
Wellbore:	LU 203H	Survey Calculation Method:	Minimum Curvature
Design:	LU 203H AsDrilled	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,349.00	0.28	286.44	1,348.98	4.35	-2.67	4.37	0.13	0.13	24.34	
1,444.00	0.57	266.33	1,443.98	4.39	-3.37	4.41	0.34	0.31	-21.17	
1,461.00	0.48	267.37	1,460.98	4.38	-3.52	4.41	0.53	-0.53	6.12	
1,633.00	0.48	238.88	1,632.98	3.97	-4.86	4.01	0.14	0.00	-16.56	
1,728.00	0.33	113.91	1,727.97	3.66	-4.95	3.70	0.76	-0.16	-131.55	
1,822.00	1.25	90.44	1,821.96	3.54	-3.68	3.57	1.02	0.98	-24.97	
1,917.00	1.39	92.92	1,916.94	3.47	-1.49	3.48	0.16	0.15	2.61	
2,011.00	1.30	89.71	2,010.91	3.42	0.72	3.41	0.12	-0.10	-3.41	
2,105.00	1.75	78.28	2,104.88	3.72	3.19	3.69	0.58	0.48	-12.16	
2,200.00	2.49	68.51	2,199.81	4.77	6.53	4.71	0.86	0.78	-10.28	
2,294.00	3.53	72.64	2,293.68	6.38	11.19	6.29	1.13	1.11	4.39	
2,388.00	5.86	81.94	2,387.36	7.92	18.71	7.76	2.60	2.48	9.89	
2,482.00	7.09	87.85	2,480.76	8.81	29.25	8.57	1.49	1.31	6.29	
2,577.00	5.95	86.45	2,575.15	9.33	40.03	9.01	1.21	-1.20	-1.47	
2,671.00	5.66	85.30	2,668.66	10.01	49.51	9.61	0.33	-0.31	-1.22	
2,766.00	5.98	79.07	2,763.18	11.33	59.04	10.86	0.74	0.34	-6.56	
2,861.00	6.25	79.02	2,857.64	13.26	68.97	12.70	0.28	0.28	-0.05	
2,955.00	5.54	74.05	2,951.14	15.48	78.36	14.85	0.93	-0.76	-5.29	
3,049.00	5.84	68.73	3,044.68	18.46	87.18	17.76	0.65	0.32	-5.66	
3,143.00	5.47	70.88	3,138.22	21.66	95.87	20.89	0.45	-0.39	2.29	
3,238.00	5.15	72.55	3,232.81	24.42	104.21	23.59	0.37	-0.34	1.76	
3,332.00	4.91	67.79	3,326.45	27.21	111.96	26.31	0.51	-0.26	-5.06	
3,427.00	5.25	59.33	3,421.08	30.96	119.47	30.00	0.86	0.36	-8.91	
3,522.00	4.75	58.43	3,515.71	35.24	126.56	34.22	0.53	-0.53	-0.95	
3,616.00	5.03	60.94	3,609.37	39.28	133.47	38.21	0.37	0.30	2.67	
3,710.00	5.34	64.21	3,702.99	43.18	141.01	42.05	0.46	0.33	3.48	
3,805.00	4.91	64.92	3,797.61	46.83	148.68	45.64	0.46	-0.45	0.75	
3,899.00	4.63	64.59	3,891.28	50.16	155.75	48.91	0.30	-0.30	-0.35	
3,994.00	5.20	69.24	3,985.93	53.34	163.24	52.02	0.73	0.60	4.89	
4,088.00	6.07	72.66	4,079.48	56.33	171.96	54.94	0.99	0.93	3.64	
4,183.00	5.42	74.72	4,174.00	59.01	181.09	57.55	0.72	-0.68	2.17	
4,278.00	5.02	77.40	4,268.61	61.10	189.47	59.57	0.49	-0.42	2.82	
4,372.00	4.98	76.12	4,362.25	62.97	197.44	61.38	0.13	-0.04	-1.36	
4,467.00	5.16	76.42	4,456.88	64.96	205.60	63.31	0.19	0.19	0.32	
4,656.00	4.52	81.43	4,645.20	68.07	221.23	66.29	0.41	-0.34	2.65	
4,750.00	5.37	70.05	4,738.85	70.12	229.02	68.28	1.38	0.90	-12.11	
4,845.00	6.85	67.86	4,833.31	73.77	238.45	71.86	1.58	1.56	-2.31	
4,940.00	6.07	69.10	4,927.71	77.70	248.39	75.70	0.83	-0.82	1.31	
5,034.00	6.07	64.81	5,021.18	81.59	257.53	79.52	0.48	0.00	-4.56	
5,128.00	6.46	61.29	5,114.62	86.24	266.67	84.10	0.58	0.41	-3.74	
5,223.00	5.79	63.20	5,209.08	90.97	275.63	88.76	0.74	-0.71	2.01	
5,317.00	5.57	64.37	5,302.62	95.08	283.98	92.80	0.26	-0.23	1.24	
5,412.00	5.17	66.48	5,397.20	98.79	292.06	96.44	0.47	-0.42	2.22	

Survey Report

Company:	AVANT OPERATING LLC	Local Co-ordinate Reference:	Well Lea Unit 203H
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Site:	LEA UNIT 200	MD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Well:	Lea Unit 203H	North Reference:	Grid
Wellbore:	LU 203H	Survey Calculation Method:	Minimum Curvature
Design:	LU 203H AsDrilled	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,506.00	4.64	69.24	5,490.86	101.82	299.50	99.42	0.62	-0.56	2.94	
5,601.00	4.85	65.52	5,585.53	104.85	306.74	102.38	0.39	0.22	-3.92	
5,695.00	5.16	65.49	5,679.17	108.25	314.21	105.72	0.33	0.33	-0.03	
5,853.00	4.66	63.17	5,836.59	114.09	326.40	111.47	0.34	-0.32	-1.47	
5,947.00	4.47	69.27	5,930.29	117.11	333.23	114.44	0.55	-0.20	6.49	
6,041.00	4.99	65.74	6,023.97	120.09	340.39	117.35	0.63	0.55	-3.76	
6,136.00	6.54	64.97	6,118.49	124.08	349.05	121.27	1.63	1.63	-0.81	
6,230.00	6.94	65.22	6,211.84	128.72	359.06	125.84	0.43	0.43	0.27	
6,325.00	6.45	65.26	6,306.19	133.36	369.12	130.39	0.52	-0.52	0.04	
6,419.00	6.34	63.34	6,399.61	137.90	378.55	134.86	0.26	-0.12	-2.04	
6,513.00	6.03	63.97	6,493.06	142.40	387.63	139.28	0.34	-0.33	0.67	
6,608.00	6.22	62.58	6,587.52	146.96	396.68	143.77	0.25	0.20	-1.46	
6,703.00	5.76	62.45	6,682.00	151.53	405.47	148.27	0.48	-0.48	-0.14	
6,797.00	5.21	67.81	6,775.57	155.32	413.61	152.00	0.80	-0.59	5.70	
6,892.00	5.16	69.58	6,870.18	158.44	421.61	155.05	0.18	-0.05	1.86	
6,986.00	4.81	71.05	6,963.82	161.20	429.29	157.75	0.40	-0.37	1.56	
7,081.00	4.57	71.56	7,058.51	163.69	436.65	160.18	0.26	-0.25	0.54	
7,175.00	5.06	64.32	7,152.17	166.67	443.94	163.10	0.83	0.52	-7.70	
7,269.00	5.44	61.35	7,245.78	170.60	451.59	166.97	0.50	0.40	-3.16	
7,364.00	5.32	62.17	7,340.36	174.82	459.43	171.12	0.15	-0.13	0.86	
7,458.00	5.30	61.96	7,433.96	178.89	467.12	175.14	0.03	-0.02	-0.22	
7,553.00	5.16	62.11	7,528.56	182.95	474.77	179.14	0.15	-0.15	0.16	
7,647.00	4.98	63.96	7,622.20	186.72	482.17	182.85	0.26	-0.19	1.97	
7,742.00	4.96	64.03	7,716.84	190.33	489.57	186.39	0.02	-0.02	0.07	
7,836.00	4.71	66.32	7,810.50	193.66	496.75	189.67	0.34	-0.27	2.44	
7,931.00	4.28	66.89	7,905.21	196.62	503.59	192.57	0.46	-0.45	0.60	
8,025.00	3.10	78.61	7,999.02	198.50	509.30	194.40	1.48	-1.26	12.47	
8,120.00	2.59	80.40	8,093.90	199.36	513.94	195.23	0.54	-0.54	1.88	
8,214.00	2.68	79.57	8,187.80	200.11	518.19	195.95	0.10	0.10	-0.88	
8,308.00	0.92	85.77	8,281.75	200.57	521.11	196.38	1.88	-1.87	6.60	
8,403.00	0.59	108.27	8,376.74	200.47	522.33	196.27	0.46	-0.35	23.68	
8,497.00	0.98	93.23	8,470.73	200.27	523.60	196.06	0.47	0.41	-16.00	
8,554.00	0.74	99.36	8,527.73	200.19	524.44	195.97	0.45	-0.42	10.75	
8,621.97	2.31	47.89	8,595.67	201.03	525.90	196.81	2.86	2.32	-75.73	
LU 203H KOP 2590FNL_770FEL										
8,644.00	2.92	44.20	8,617.68	201.74	526.62	197.50	2.86	2.75	-16.73	
ESTKOP 2589FNL_772FEL										
8,738.00	17.17	13.46	8,710.03	217.03	531.54	212.76	15.67	15.16	-32.70	
8,822.00	31.44	357.97	8,786.46	251.19	533.66	246.90	18.48	16.99	-18.44	
FTP 2540FNL_762FEL										
8,833.00	33.39	356.88	8,795.75	257.08	533.40	252.79	18.48	17.70	-9.89	
8,927.00	43.60	355.84	8,869.22	315.39	529.63	311.13	10.88	10.86	-1.11	
9,021.00	52.58	358.04	8,931.95	385.17	525.99	380.94	9.71	9.55	2.34	
LU 203H FTP 2540FNL_770FEL										

Survey Report

Company:	AVANT OPERATING LLC	Local Co-ordinate Reference:	Well Lea Unit 203H
Project:	LEA COUNTY, NM (NMEZ) NAD83 GRID	TVD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Site:	LEA UNIT 200	MD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Well:	Lea Unit 203H	North Reference:	Grid
Wellbore:	LU 203H	Survey Calculation Method:	Minimum Curvature
Design:	LU 203H AsDrilled	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,116.00	59.76	359.41	8,984.81	464.01	524.28	459.79	7.65	7.56	1.44	
9,211.00	67.64	2.51	9,026.87	549.09	525.78	544.85	8.79	8.29	3.26	
9,306.00	69.48	2.71	9,061.60	637.42	529.81	633.14	1.95	1.94	0.21	
9,346.62	73.75	1.95	9,074.40	675.93	531.37	671.64	10.67	10.52	-1.87	
LU 203H LP 2115FNL_770FEL										
9,400.00	79.37	1.00	9,086.81	727.80	532.70	723.50	10.67	10.52	-1.78	
9,404.54	80.00	1.08	9,087.62	732.27	532.79	727.97	13.97	13.86	1.81	
80° 2059FNL_762FEL										
9,495.00	92.54	2.68	9,093.49	822.30	535.75	817.98	13.97	13.86	1.77	
9,520.00	94.05	1.52	9,092.06	847.25	536.67	842.91	7.61	6.04	-4.64	
9,614.00	93.91	357.97	9,085.53	941.00	536.25	936.67	3.77	-0.15	-3.78	
9,709.00	89.09	356.44	9,083.04	1,035.83	531.62	1,031.52	5.32	-5.07	-1.61	
9,804.00	87.74	356.76	9,085.67	1,130.62	525.99	1,126.36	1.46	-1.42	0.34	
9,898.00	86.34	357.12	9,090.52	1,224.36	520.98	1,220.14	1.54	-1.49	0.38	
9,993.00	86.64	357.25	9,096.34	1,319.07	516.32	1,314.88	0.34	0.32	0.14	
10,087.00	87.85	358.17	9,100.86	1,412.88	512.57	1,408.72	1.62	1.29	0.98	
10,146.85	89.46	359.65	9,102.26	1,472.70	511.43	1,468.54	3.66	2.69	2.48	
LU 203H PPP2 1318FNL_770FEL										
10,181.00	90.38	0.50	9,102.31	1,506.85	511.48	1,502.69	3.66	2.69	2.48	
10,276.00	90.55	1.23	9,101.54	1,601.83	512.91	1,597.66	0.79	0.18	0.77	
10,371.00	90.46	1.57	9,100.70	1,696.80	515.23	1,692.61	0.37	-0.09	0.36	
10,465.00	89.17	359.66	9,101.01	1,790.79	516.24	1,786.59	2.45	-1.37	-2.03	
10,560.00	88.53	358.56	9,102.91	1,885.76	514.77	1,881.56	1.34	-0.67	-1.16	
10,654.00	93.91	359.27	9,100.91	1,979.68	512.99	1,975.50	5.77	5.72	0.76	
10,749.00	96.17	359.77	9,092.57	2,074.31	512.19	2,070.13	2.44	2.38	0.53	
10,843.00	97.90	359.45	9,081.05	2,167.59	511.56	2,163.42	1.87	1.84	-0.34	
10,938.00	95.66	359.80	9,069.84	2,261.92	510.94	2,257.75	2.39	-2.36	0.37	
11,033.00	96.54	359.36	9,059.74	2,356.38	510.25	2,352.21	1.03	0.93	-0.46	
11,127.00	97.56	359.57	9,048.21	2,449.66	509.38	2,445.49	1.11	1.09	0.22	
11,222.00	94.54	359.35	9,038.20	2,544.12	508.49	2,539.95	3.19	-3.18	-0.23	
11,317.00	89.31	358.69	9,035.01	2,639.02	506.86	2,634.86	5.55	-5.51	-0.69	
11,412.00	91.25	359.43	9,034.54	2,734.00	505.31	2,729.85	2.19	2.04	0.78	
11,469.66	91.66	359.03	9,033.08	2,791.64	504.53	2,787.50	0.99	0.71	-0.69	
LU 203H PPP3 0FNL_770FEL										
11,506.00	91.92	358.78	9,031.94	2,827.95	503.84	2,823.81	0.99	0.71	-0.69	
11,601.00	92.88	358.69	9,027.96	2,922.84	501.74	2,918.72	1.01	1.01	-0.09	
11,696.00	94.56	358.03	9,021.80	3,017.60	499.03	3,013.50	1.90	1.77	-0.69	
11,790.00	91.89	358.70	9,016.51	3,111.40	496.35	3,107.32	2.93	-2.84	0.71	
11,885.00	87.55	359.67	9,016.98	3,206.37	495.00	3,202.29	4.68	-4.57	1.02	
11,980.00	85.58	0.35	9,022.67	3,301.19	495.02	3,297.11	2.19	-2.07	0.72	
12,074.00	85.56	359.97	9,029.93	3,394.91	495.28	3,390.83	0.40	-0.02	-0.40	
12,169.00	86.71	358.85	9,036.33	3,489.69	494.30	3,485.61	1.69	1.21	-1.18	
12,263.00	88.75	359.80	9,040.06	3,583.60	493.20	3,579.53	2.39	2.17	1.01	
12,357.00	90.69	359.70	9,040.51	3,677.59	492.79	3,673.52	2.07	2.06	-0.11	

Survey Report

Company:	AVANT OPERATING LLC	Local Co-ordinate Reference:	Well Lea Unit 203H
Project:	LEA COUNTY, NM (NMEZ) NAD83 GRID	TVD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Site:	LEA UNIT 200	MD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Well:	Lea Unit 203H	North Reference:	Grid
Wellbore:	LU 203H	Survey Calculation Method:	Minimum Curvature
Design:	LU 203H AsDrilled	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,452.00	91.11	0.30	9,039.02	3,772.58	492.79	3,768.50	0.77	0.44	0.63
12,546.00	90.74	359.69	9,037.51	3,866.57	492.78	3,862.49	0.76	-0.39	-0.65
12,640.00	91.05	1.29	9,036.04	3,960.55	493.58	3,956.46	1.73	0.33	1.70
12,734.00	88.64	359.31	9,036.29	4,054.54	494.07	4,050.44	3.32	-2.56	-2.11
12,828.00	90.77	1.11	9,036.78	4,148.53	494.42	4,144.42	2.97	2.27	1.91
12,922.00	91.86	0.67	9,034.62	4,242.49	495.88	4,238.37	1.25	1.16	-0.47
13,016.00	91.30	359.49	9,032.03	4,336.45	496.01	4,332.33	1.39	-0.60	-1.26
13,111.00	90.88	359.34	9,030.22	4,431.43	495.04	4,427.31	0.47	-0.44	-0.16
13,205.00	89.71	359.95	9,029.73	4,525.42	494.46	4,521.31	1.40	-1.24	0.65
13,300.00	90.49	359.69	9,029.57	4,620.42	494.16	4,616.31	0.87	0.82	-0.27
13,395.00	94.44	0.63	9,025.48	4,715.31	494.42	4,711.19	4.27	4.16	0.99
13,490.00	96.57	0.23	9,016.37	4,809.87	495.13	4,805.74	2.28	2.24	-0.42
13,584.00	94.67	359.89	9,007.17	4,903.41	495.23	4,899.28	2.05	-2.02	-0.36
13,678.00	95.35	0.26	8,998.96	4,997.05	495.35	4,992.91	0.82	0.72	0.39
13,772.00	95.38	0.63	8,990.17	5,090.64	496.08	5,086.49	0.39	0.03	0.39
13,867.00	95.66	0.10	8,981.03	5,185.19	496.68	5,181.04	0.63	0.29	-0.56
13,961.00	93.52	358.57	8,973.51	5,278.88	495.59	5,274.73	2.80	-2.28	-1.63
14,055.00	90.35	358.26	8,970.33	5,372.78	493.00	5,368.64	3.39	-3.37	-0.33
14,150.00	90.66	356.67	8,969.50	5,467.68	488.79	5,463.58	1.71	0.33	-1.67
14,245.00	90.55	358.15	8,968.49	5,562.57	484.50	5,558.50	1.56	-0.12	1.56
14,340.00	91.19	358.14	8,967.05	5,657.51	481.43	5,653.46	0.67	0.67	-0.01
14,435.00	91.19	356.36	8,965.08	5,752.38	476.87	5,748.36	1.87	0.00	-1.87
14,530.00	92.11	358.89	8,962.34	5,847.25	472.93	5,843.26	2.83	0.97	2.66
14,625.00	91.92	359.42	8,959.00	5,942.18	471.53	5,938.20	0.59	-0.20	0.56
14,720.00	92.70	1.87	8,955.17	6,037.09	472.60	6,033.10	2.70	0.82	2.58
14,815.00	91.22	1.64	8,951.92	6,131.98	475.51	6,127.97	1.58	-1.56	-0.24
14,909.00	89.34	1.07	8,951.46	6,225.95	477.73	6,221.91	2.09	-2.00	-0.61
15,004.00	91.67	0.43	8,950.63	6,320.93	478.98	6,316.88	2.54	2.45	-0.67
15,098.00	93.37	359.42	8,946.49	6,414.84	478.85	6,410.78	2.10	1.81	-1.07
15,193.00	91.42	358.85	8,942.52	6,509.74	477.42	6,505.69	2.14	-2.05	-0.60
15,287.00	92.88	358.64	8,939.00	6,603.65	475.36	6,599.62	1.57	1.55	-0.22
15,381.00	88.14	359.08	8,938.16	6,697.60	473.49	6,693.58	5.06	-5.04	0.47
15,433.90	86.07	359.19	8,940.83	6,750.42	472.69	6,746.41	3.92	-3.92	0.20
LU 203H PPP4 1320FNL_770FEL									
15,476.00	84.42	359.27	8,944.32	6,792.37	472.13	6,788.36	3.92	-3.92	0.20
15,570.00	84.45	358.74	8,953.44	6,885.91	470.50	6,881.91	0.56	0.03	-0.56
15,664.00	86.56	0.06	8,960.81	6,979.61	469.52	6,975.62	2.65	2.24	1.40
15,759.00	94.25	1.12	8,960.13	7,074.53	470.50	7,070.53	8.17	8.09	1.12
15,854.00	92.54	1.64	8,954.51	7,169.33	472.79	7,165.31	1.88	-1.80	0.55
15,948.00	89.76	1.21	8,952.62	7,263.28	475.12	7,259.23	2.99	-2.96	-0.46
16,042.00	86.62	0.10	8,955.59	7,357.21	476.20	7,353.15	3.54	-3.34	-1.18
16,136.00	86.31	1.09	8,961.39	7,451.02	477.17	7,446.95	1.10	-0.33	1.05
16,231.00	88.61	1.04	8,965.60	7,545.91	478.93	7,541.82	2.42	2.42	-0.05
16,325.00	90.43	0.55	8,966.38	7,639.89	480.24	7,635.79	2.01	1.94	-0.52

Survey Report

Company:	AVANT OPERATING LLC	Local Co-ordinate Reference:	Well Lea Unit 203H
Project:	LEA COUNTY, NM (NMEZ) NAD83 GRID	TVD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Site:	LEA UNIT 200	MD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Well:	Lea Unit 203H	North Reference:	Grid
Wellbore:	LU 203H	Survey Calculation Method:	Minimum Curvature
Design:	LU 203H AsDrilled	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,419.00	91.89	359.57	8,964.48	7,733.87	480.34	7,729.76	1.87	1.55	-1.04
16,514.00	92.39	358.59	8,960.93	7,828.79	478.81	7,824.69	1.16	0.53	-1.03
16,608.00	92.03	357.55	8,957.31	7,922.66	475.65	7,918.59	1.17	-0.38	-1.11
16,643.00	90.57	358.30	8,956.51	7,957.63	474.38	7,953.57	4.69	-4.17	2.14
16,656.00	90.57	358.30	8,956.39	7,970.62	474.00	7,966.56	0.00	0.00	0.00
LTP 100FNL_760FEL - LU 203H LTP/PBHL 100FNL_770FEL									
16,707.00	90.57	358.30	8,955.88	8,021.60	472.48	8,017.55	0.00	0.00	0.00
TD 49FNL_761FEL									

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
LU 203H SHL 2483FSL_	0.00	0.00	0.00	0.00	0.00	573,022.35	789,868.60	32.5727037	-103.5265454
- actual wellpath hits target center									
- Point									
LU 203H ESTKOP 2589FNL_772FEL	0.00	0.00	8,617.68	201.74	526.62	573,224.09	790,395.22	32.5732472	-103.5248310
- actual wellpath misses target center by 0.01usft at 8644.00usft MD (8617.68 TVD, 201.74 N, 526.62 E)									
- Point									
LU 203H FTP 2540FNL_762FEL	0.00	0.00	8,786.46	251.19	533.66	573,273.54	790,402.26	32.5733829	-103.5248069
- actual wellpath misses target center by 0.01usft at 8822.00usft MD (8786.46 TVD, 251.19 N, 533.67 E)									
- Point									
LU 203H LTP/PBHL 100	0.00	0.00	8,911.50	7,970.70	468.11	580,993.05	790,336.71	32.5946012	-103.5248293
- actual wellpath misses target center by 45.27usft at 16656.00usft MD (8956.39 TVD, 7970.62 N, 474.00 E)									
- Rectangle (sides W100.00 H7,770.94 D0.00)									
LU 203H TD 49FNL_761FEL	0.00	0.00	8,955.88	8,021.60	472.48	581,043.95	790,341.08	32.5947410	-103.5248138
- actual wellpath misses target center by 0.01usft at 16707.00usft MD (8955.88 TVD, 8021.60 N, 472.48 E)									
- Point									
LU 203H LTP 100FNL_760FEL	0.00	0.00	8,956.39	7,970.62	474.00	580,992.97	790,342.60	32.5946008	-103.5248102
- actual wellpath misses target center by 0.01usft at 16656.00usft MD (8956.39 TVD, 7970.62 N, 474.00 E)									
- Point									
LU 203H 80° 2059FNL_762FEL	0.00	0.00	9,087.62	732.27	532.79	573,754.62	790,401.39	32.5747052	-103.5247979
- actual wellpath hits target center									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,644.00	8,617.68	201.74	526.62	ESTKOP 2589FNL_772FEL
8,822.00	8,786.46	251.19	533.66	FTP 2540FNL_762FEL
9,404.54	9,087.62	732.27	532.79	80° 2059FNL_762FEL
16,656.00	8,956.39	7,970.62	474.00	LTP 100FNL_760FEL
16,707.00	8,955.88	8,021.60	472.48	TD 49FNL_761FEL

Survey Report

Company:	AVANT OPERATING LLC	Local Co-ordinate Reference:	Well Lea Unit 203H
Project:	LEA COUNTY, NM (NMEZ) NAD83 GRID	TVD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Site:	LEA UNIT 200	MD Reference:	3652.5+26.5 @ 3679.00usft (GL+KB)
Well:	Lea Unit 203H	North Reference:	Grid
Wellbore:	LU 203H	Survey Calculation Method:	Minimum Curvature
Design:	LU 203H AsDrilled	Database:	EDM 5000.1 Single User Db

Checked By:	_____	Approved By:	_____	Date:	_____
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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

ACKNOWLEDGMENTS

Action 433899

ACKNOWLEDGMENTS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 433899
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☒	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

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Phone: (505) 476-3441

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

CONDITIONS

Action 433899

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 433899
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT C-104 Expires 90 days from ready date for a Horizontal well.	2/26/2025