

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

Form C-101
August 1, 2011

Permit 403580

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Avant Operating II, LLC 1515 Wynkoop Street Denver, CO 80202		2. OGRID Number 332947
		3. API Number 30-025-55470
4. Property Code 338098	5. Property Name MOONWATCH 17 8 STATE COM	6. Well No. 504H

7. Surface Location

UL - Lot O	Section 17	Township 18S	Range 35E	Lot Idn O	Feet From 288	N/S Line S	Feet From 1324	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot I	Section 8	Township 18S	Range 35E	Lot Idn I	Feet From 2547	N/S Line S	Feet From 330	E/W Line E	County Lea
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9. Pool Information

WC-025 G-06 S183518A;BONE SPRING	97930
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3937
16. Multiple N	17. Proposed Depth 16658	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	40.5	1748	625	0
Int1	9.875	8.625	32	3250	290	0
Prod	7.875	5.5	20	16658	1890	0

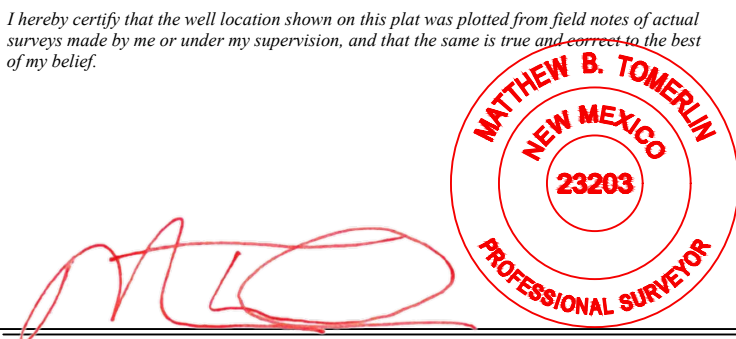
Casing/Cement Program: Additional Comments

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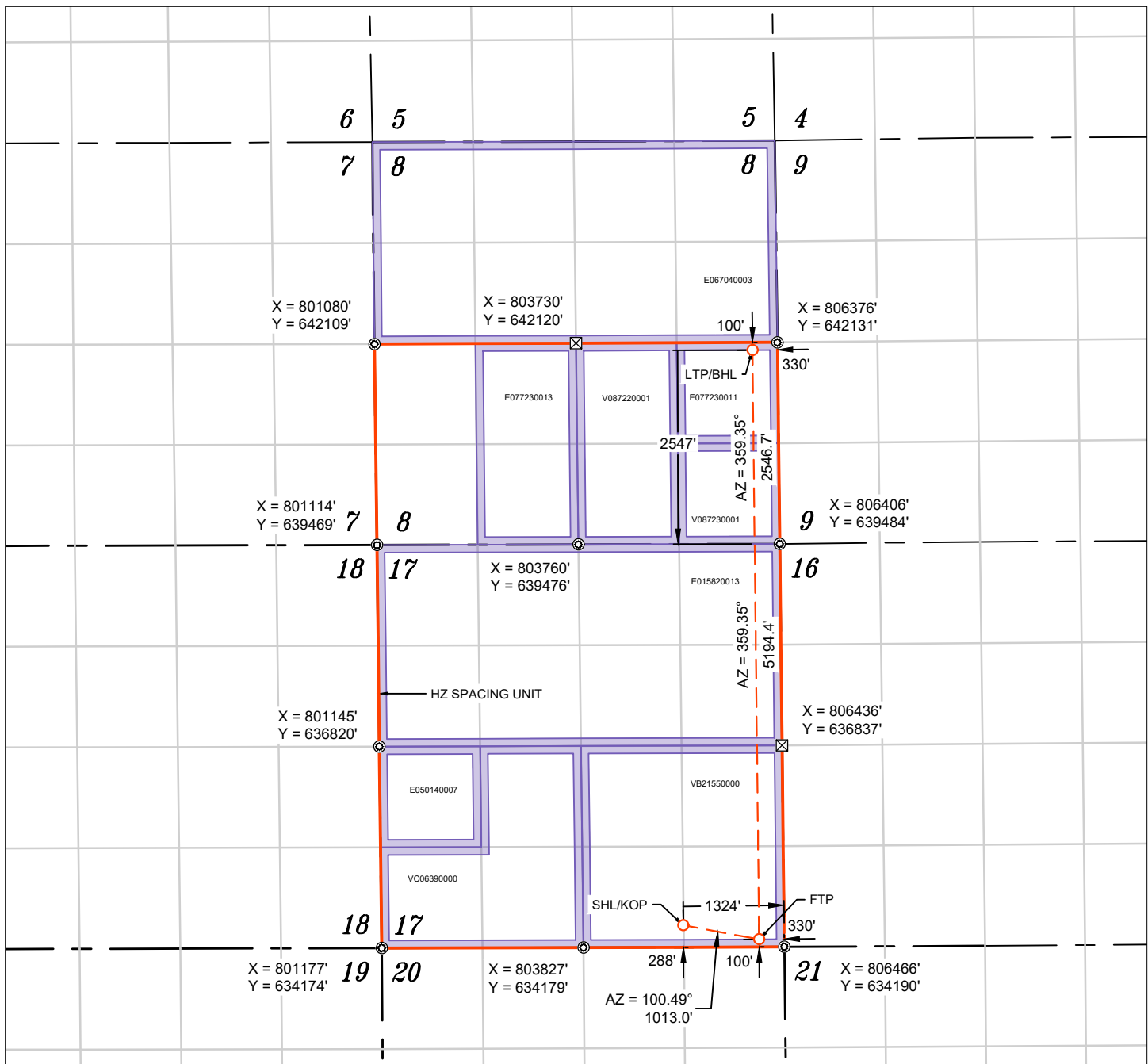
22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Pipe	10000	5000	CAMERON

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature: Printed Name: Electronically filed by Sarah Ferreyros Title: Director of Regulatory Email Address: sarah@avantnr.com Date: 11/17/2025	OIL CONSERVATION DIVISION Approved By: Jeffrey Harrison Title: Petroleum Specialist III Approved Date: 11/18/2025 Expiration Date: 11/18/2027 Conditions of Approval Attached
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C-102 Submit Electronically Via OCD Permitting		State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION				Revised July 9, 2024			
		Submittal Type:		☒ Initial Submittal ☐ Amended Report ☐ As Drilled					
WELL LOCATION INFORMATION									
API Number 30-025-55470		Pool Code 97930		Pool Name WC-025 G-06 S183518A;BONE SPRING					
Property Code 338098		Property Name MOONWATCH 17 8 STATE COM				Well Number #504H			
OGRID No. 332947		Operator Name AVANT OPERATING II, LLC				Ground Level Elevation 3937'			
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal					Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal				
Surface Location									
UL O	Section 17	Township 18 S	Range 35 E	Lot	Ft. from N/S 288' FSL	Ft. from E/W 1324' FEL	Latitude 32.741267°	Longitude -103.475366°	County LEA
Bottom Hole Location									
UL I	Section 8	Township 18 S	Range 35 E	Lot	Ft. from N/S 2547' FSL	Ft. from E/W 330' FEL	Latitude 32.762014°	Longitude -103.472214°	County LEA
Dedicated Acres 960.00		Infill or Defining Well Infill		Defining Well API n/a		Overlapping Spacing Unit (Y/N) No		Consolidation Code n/a	
Order Numbers. n/a					Well setbacks are under Common Ownership: ☐ Yes ☒ No				
Kick Off Point (KOP)									
UL O	Section 17	Township 18 S	Range 35 E	Lot	Ft. from N/S 288' FSL	Ft. from E/W 1324' FEL	Latitude 32.741267°	Longitude -103.475366°	County LEA
First Take Point (FTP)									
UL P	Section 17	Township 18 S	Range 35 E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 330' FEL	Latitude 32.740738°	Longitude -103.472132°	County LEA
Last Take Point (LTP)									
UL I	Section 8	Township 18 S	Range 35 E	Lot	Ft. from N/S 2547' FSL	Ft. from E/W 330' FEL	Latitude 32.762014°	Longitude -103.472214°	County LEA
Unitized Area or Area of Uniform Interest No				Spacing Unit Type ☒ Horizontal ☐ Vertical			Ground Floor Elevation: 3937'		
OPERATOR CERTIFICATIONS <i>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 a 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.</i> <i>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.</i>					SURVEYOR CERTIFICATIONS <i>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>				
Signature  Sarah Ferreyros					Signature and Seal of Professional Surveyor 				
Date 11/12/2025					Date of Survey OCTOBER 28, 2025				
Printed Name sarah@avantnr.com					Certificate Number 23203				
Email Address					Date of Survey				

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.



WELL NAME: MOONWATCH 17 8 STATE COM #504H
 ELEVATION: 3937'

NAD 83 (SHL/KOP) 288' FSL & 1324' FEL
LATITUDE = 32.741267°
LONGITUDE = -103.475366°
NAD 27 (SHL/KOP)
LATITUDE = 32.741150°
LONGITUDE = -103.474869°
STATE PLANE NAD 83 (N.M. EAST)
N: 634473.04' E: 805139.33'
STATE PLANE NAD 27 (N.M. EAST)
N: 634410.91' E: 763960.64'

NAD 83 (FTP) 100' FSL & 330' FEL
LATITUDE = 32.740738°
LONGITUDE = -103.472132°
NAD 27 (FTP)
LATITUDE = 32.740621°
LONGITUDE = -103.471635°
STATE PLANE NAD 83 (N.M. EAST)
N: 634288.61' E: 806135.35'
STATE PLANE NAD 27 (N.M. EAST)
N: 634226.50' E: 764956.66'

NAD 83 (LTP/BHL) 2547' FSL & 330' FEL
LATITUDE = 32.762014°
LONGITUDE = -103.472214°
NAD 27 (LTP/BHL)
LATITUDE = 32.761897°
LONGITUDE = -103.471717°
STATE PLANE NAD 83 (N.M. EAST)
N: 642029.16' E: 806047.01'
STATE PLANE NAD 27 (N.M. EAST)
N: 641966.81' E: 764868.55'

- ⊙ FOUND MONUMENT
- ⊠ CALC. CORNER
- SHL/ KOP/ FTP / PPP/ LTP / BHL
- WELLBORE
- HORIZONTAL SPACING UNIT
- STATE OIL & GAS LEASE
- BLM OIL & GAS LEASE

APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP	
VB21550000	2547.33'
E015820013	2647.07'
V087230001	1323.35'
E077230011	1223.31'
TOTAL	7741.06'

NOTES

1. ALL COORDINATES, BEARINGS, AND DISTANCES CONTAINED HEREIN ARE GRID, BASED UPON THE NEW MEXICO STATE PLANE COORDINATES SYSTEM, NORTH AMERICAN DATUM 83, NEW MEXICO EAST (3001).

2. THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING OCTOBER, 2025. CERTIFICATION OF THIS DOCUMENT IS ONLY TO THE LOCATION OF THIS INFORMATION IN RELATION TO RECORDED MONUMENT OF DEEDS PROVIDED BY THE CLIENT.

3. ELEVATIONS MSL, DERIVED FROM G.N.S.S. OBSERVATION AND DERIVED FROM SAID ON-THE-GROUND SURVEY.



SCALE: 1" = 2000'

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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

Form APD Conditions

Permit 403580

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Avant Operating II, LLC [332947] 1515 Wynkoop Street Denver, CO 80202	API Number: 30-025-55470
	Well: MOONWATCH 17 8 STATE COM #504H

OCD Reviewer	Condition
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

PROPOSAL#: 251108124614-A



CEMENT PROCEDURE & PROPOSAL

PREPARED FOR:

Mr. Ryan Harris

EMAIL: ryan@avantnr.com

PHONE NUMBER: 406-853-6490

Avant Operating II Moonwatch 17 8 State Com #504H Lea County, NM

AFE Number: NM1474

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

.Disclaimer Notice:

The ability of West Texas Cementing & Acidizing to complete this work is subject to the availability of the raw materials required to complete the job.

This information is presented in good faith, but no warranty is given by and West Texas Cementers LLC assumes no liability for advice or recommendations made concerning results to be obtained from the use of any product or service. The results given are estimates based on calculations produced by a computer model including various assumptions on the well, reservoir and treatment. The results depend on input data provided by the Operator and estimates as to unknown data and can be no more accurate than the model, the assumptions and such input data. The information presented is WTC LLC best estimate of the actual results that may be achieved and should be used for comparison purposes rather than absolute values. The quality of input data, and hence results, may be improved through the use of certain tests and procedures which West Texas Cementers LLC can assist in selecting. The Operator has superior knowledge of the well, the reservoir, the field and conditions affecting them. If the Operator is aware of any conditions whereby a neighboring well or wells might be affected by the treatment proposed herein it is the Operator's responsibility to notify the owner or owners of the well or wells accordingly. Prices quoted are estimates only and are good for 30 days from the date of issue. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Freedom from infringement of patents of West Texas Cementers LLC or others is not to be inferred.

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11/8/2025 12:47

VERSION: v0.29d

Avant Operating II
Moonwatch 17 8 State Com #504H
Lea County, NM

Surface



PROPOSAL#: 251108124614-A

WELL INFORMATION						
MUD	8.4# Fresh Water					
PREVIOUS PIPE	20" 94# CSG to 120					
OPEN HOLE	14.75" OH to 1748					
CASING/INJECTION	10.75" 40.5# J-55/BTC to 1748					
MD	1748					
EST BHST/BHCT	94-F / 87-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	10.75		0.2430	29.2
Lead	1278	14.75	10.75	0%	0.0991	126.6
Tail	350	14.75	10.75	0%	0.0991	34.7
SHOE JOINT	40	10.75	10.05		0.0981	3.9
FLUIDS						
SPACER						
Fresh Water						
VOLUME	20-bbl					
Lead						
35% B_Poz+65% Class C+6% Gel+5% SALT+0.25PPS Pol-E-Flake+0.5PPS TCA100						
VOLUME	460-SX				Slurry Volume: 155.7-bbls	
DENSITY	12.8-ppg				Mix Water Required: 112-bbls	
YIELD	1.9-cf/sx					
MIX WATER	10.19-gps					
TOP OF CEMENT	Surface					
EXCESS	0%					

Avant Operating II
Moonwatch 17 8 State Com #504H
Lea County, NM

Surface

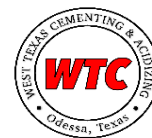


PROPOSAL#: 251108124614-A

Tail		
	100% Class C+0.5% CaCl2+0.25PPS TCA100	
VOLUME	165-SX	Slurry Volume: 39.1-bbls
DENSITY	14.8-ppg	Mix Water Required: 25-bbls
YIELD	1.33-cf/sx	
MIX WATER	6.33-gps	
TOP OF CEMENT	1398-ft	
EXCESS	0%	
DISPLACEMENT		
	Displacement	
VOLUME	167.6-bbl	

Avant Operating II
Moonwatch 17 8 State Com #504H
Lea County, NM

Intermediate



PROPOSAL#: 251108124614-A

WELL INFORMATION						
MUD	10# Brine					
PREVIOUS PIPE	10.75" 40.5# CSG to 1748					
OPEN HOLE	9.875" OH to 3250					
CASING/INJECTION	8.625" 32# L-80 HC BK to 3250					
MD	3250					
TVD	3227					
EST BHST/BHCT	106-F / 95-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	1748	10.05	8.625		0.0258	45.2
Lead	852	9.875	8.625	20%	0.0270	23.0
Tail	650	9.875	8.625	20%	0.0270	17.5
SHOE JOINT	40	8.625	7.921		0.0609	2.4
FLUIDS						
SPACER						
Fresh Water						
VOLUME	25-bbl					
Lead						
35% B_Poz+65% Class C+6% Gel+5% SALT+0.25PPS Pol-E-Flake+0.5PPS TCA100						
VOLUME	205-SX		Slurry Volume: 69.4-bbls			
DENSITY	12.8-ppg		Mix Water Required: 50-bbls			
YIELD	1.9-cf/sx					
MIX WATER	10.19-gps					
TOP OF CEMENT	Surface					
EXCESS	20%					

Avant Operating II
Moonwatch 17 8 State Com #504H
Lea County, NM

Intermediate



PROPOSAL#: 251108124614-A

Tail		
100% Class C+5% SALT+0.25PPS TCA100		
VOLUME	85-SX	Slurry Volume: 20.7-bbls
DENSITY	14.8-ppg	Mix Water Required: 14-bbls
YIELD	1.37-cf/sx	
MIX WATER	6.51-gps	
TOP OF CEMENT	2600-ft	
EXCESS	20%	
DISPLACEMENT		
Displacement		
VOLUME	195.6-bbl	

Avant Operating II
Moonwatch 17 8 State Com #504H
Lea County, NM

Production



PROPOSAL#: 251108124614-A

WELL INFORMATION						
MUD	9.2# OBM					
PREVIOUS PIPE	8.625" 32# CSG to 3250					
OPEN HOLE	7.875" OH to 16658					
CASING/INJECTION	5.5" 20# P-110 HC GBCD to 16658					
MD	16658					
TVD	9013					
EST BHST/BHCT	155-F / 155-F (0.83-F/100-FT)					
KOP	8599					
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	3250	7.921	5.5		0.0316	102.6
Lead	5349	7.875	5.5	20%	0.0370	198.1
Tail	8059	7.875	5.5	20%	0.0370	298.4
SHOE JOINT	80	5.5	4.778		0.0222	1.8
FLUIDS						
SPACER						
Wt. Spacer 37.97GPB Water+8PPB PolyScrub 4320+73.68PPB Barite+1GPB HoleScrub 4311+1PPB R-1300+1PPB TCA100						
VOLUME	40-bbl					
DENSITY	9.7-ppg					
Lead						
100% ProLite+5PPS Plexcrete STE+2% SMS+0.65% R-1300+0.5% FL-24+3PPS Gilsonite+0.5PPS TCA100						
VOLUME	500-SX				Slurry Volume: 302.8-bbls	
DENSITY	10.7-ppg				Mix Water Required: 252-bbls	
YIELD	3.4-cf/sx					
MIX WATER	21.14-gps					
TOP OF CEMENT	Surface					
EXCESS	20%					

Avant Operating II
Moonwatch 17 8 State Com #504H
Lea County, NM

Production



PROPOSAL#: 251108124614-A

Tail		
50% B_Poz+50% Class H+5% SALT+0.3% SMS+0.4% CRT-201+0.5% FL-24+0.5PPS TCA100		
VOLUME	1390-SX	Slurry Volume: 302-bbls
DENSITY	14.5-ppg	Mix Water Required: 176-bbls
YIELD	1.22-cf/sx	
MIX WATER	5.3-gps	
TOP OF CEMENT	8599-ft	
EXCESS	20%	
DISPLACEMENT		
Displacement 0.25GPT Plexicide 24L+1GPT Corplex		
VOLUME	367.6-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
M_Poz	WTC280	Poz - Fly Ash, Extender
ProLite		Blended Based Cement
Plexcrete SFA	WTC129	Cement Strength Enhancer
Gel	WTC102	Extender
GB-52	WTC008	Microspheres, Extender
Micro Shell	WTC209	Cement Strength Enhancer
WTC1	WTC250	Extender
CS-9	WTC285	Cement Strength Enhancer
Plexcrete STE	WTC127	Cement Strength Enhancer
CSE-NP	WTC236	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
R-1300	WTC201	Low Temperature Retarder
CR-150	WTC275	Lignosulfonate Retarder
CRT-201	WTC278	Lignosulfonate Retarder
CD-22	WTC290	Dispersant, Friction Reducer
CFL-312	WTC265	Fluid Loss and Gas Migration Control
FL-24	WTC277	Fluid Loss (polymers/copolymers - 300-F max)
FL-17	WTC130	Fluid Loss and Gas Migration Control (400-F max)
MagBond	WTC271	Expanding Agent
Gilsonite	WTC003	Premium Lost Circulation Material, Free Water Control
Pol-E-Flake	WTC106	Lost Circulation Material
Web Seal	WTC133	Premium Fiber Lost Circulation Material
TCA100	WTC284	Powdered Defoamer
NoFoam V1A	WTC105	Liquid Defoamer
Water		Fresh Water
PolyScrub 4320	WTC232	Spacer Gelling Agent
RCKCAS-100	WTC276	Free Water Control, Anti-Settling Agent
Barite	WTC116	Weighting Agent
HoleScrub 4311	WTC281	Surfactant
HoleScrub 4305	WTC213	Surfactant
Soda Ash	WTC164	pH Control
R-1300	WTC201	Low Temperature Retarder
RCKCAS-100	WTC276	Free Water Control, Anti-Settling Agent
Sugar	WTC119	Retarder
TCA100	WTC284	Powdered Defoamer
Plexcide 24L	WTC166	Biocide
Corplex	WTC134	Corrosion Inhibitor
Clay Max	WTC096	KCL Substitute
Zone Seal	WTC207	Premium Lost Circulation Material

WELL DETAILS: Moonwatch 17 8 State Com #504H

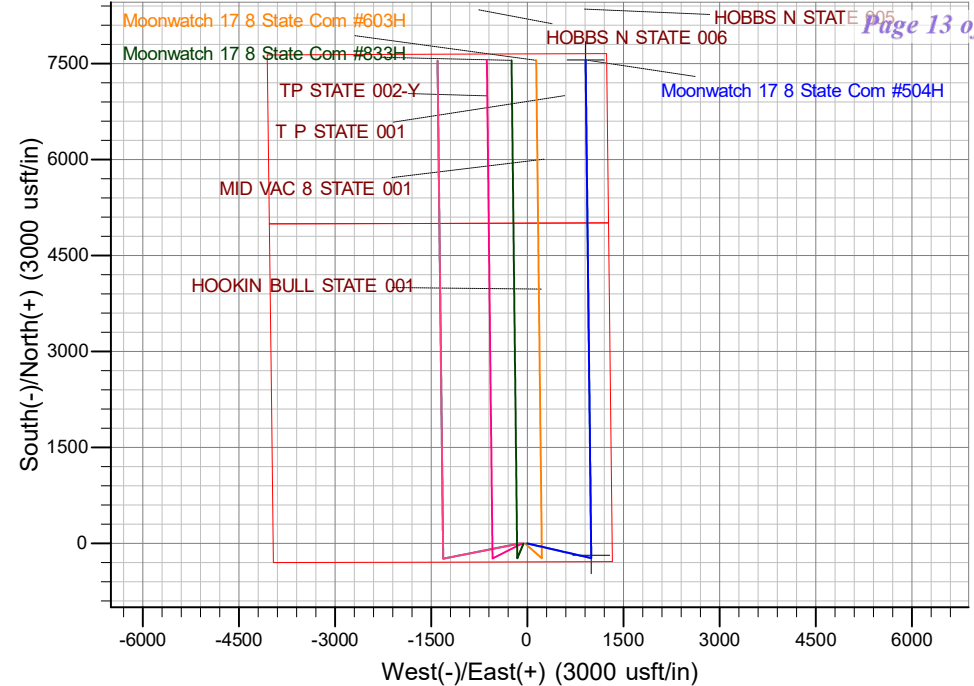
Ground Elev: 3937.0 KB: 3962

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	634473.04	805139.33	32.741267	-103.475366

PROJECT DETAILS: Lea County, NM (NAD 83)

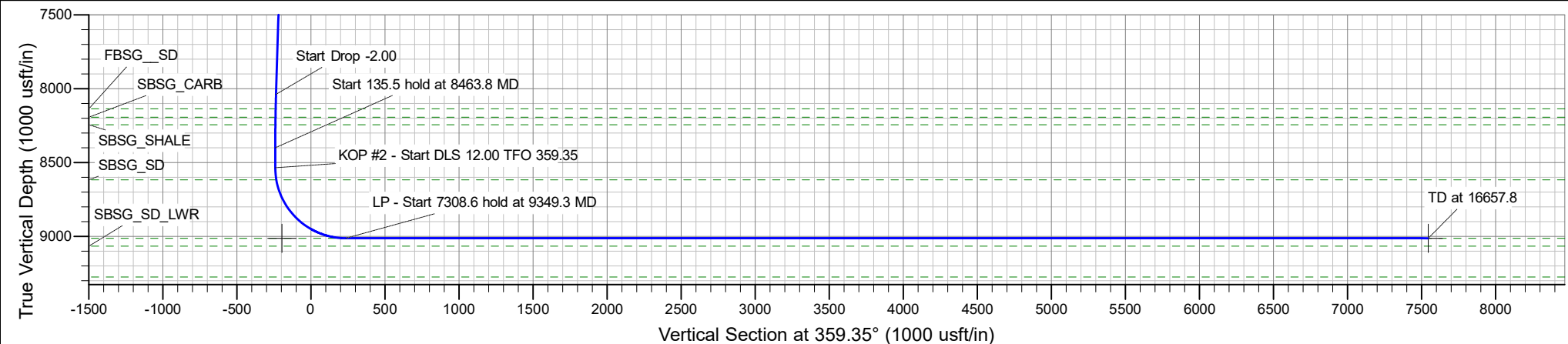
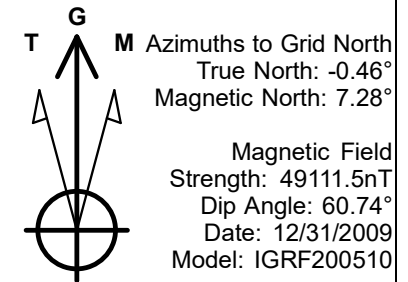
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

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	362.4	7.25	102.97	361.4	-5.1	22.3	2.00	102.97	-5.4	KOP - Start 7739.0 hold at 362.4 MD
3	8101.4	7.25	102.97	8038.6	-224.3	973.7	0.00	0.00	-235.3	Start Drop -2.00
4	8463.8	0.00	0.00	8400.0	-229.4	996.0	2.00	180.00	-240.7	Start 135.5 hold at 8463.8 MD
5	8599.3	0.00	0.00	8535.5	-229.4	996.0	0.00	0.00	-240.7	KOP #2 - Start DLS 12.00 TFO 359.35
6	9349.3	90.00	359.35	9013.0	248.0	990.6	12.00	359.35	236.8	LP - Start 7308.6 hold at 9349.3 MD
7	16657.8	90.00	359.35	9013.0	7556.1	907.7	0.00	0.00	7545.3	TD at 16657.8



Avant Operating II, LLC

Lea County, NM (NAD 83)

Moonwatch 17 8 State Com Pad 2

Moonwatch 17 8 State Com #504H

OH

Plan: Plan 0.1

Standard Planning Report

05 November, 2025

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Moonwatch 17 8 State Com #504H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3962.0usft (3962)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3962.0usft (3962)
Site:	Moonwatch 17 8 State Com Pad 2	North Reference:	Grid
Well:	Moonwatch 17 8 State Com #504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Project	Lea County, 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		Moonwatch 17 8 State Com Pad 2			
Site Position:		Northing:	634,472.85 usft	Latitude:	32.741269
From:	Map	Easting:	805,059.33 usft	Longitude:	-103.475626
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	

Well	Moonwatch 17 8 State Com #504H					
Well Position	+N/-S	0.0 usft	Northing:	634,473.04 usft	Latitude:	32.741267
	+E/-W	0.0 usft	Easting:	805,139.33 usft	Longitude:	-103.475366
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,937.0 usft
Grid Convergence:		0.46 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.74	60.74	49,111.52663317

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	359.35	

Plan Survey Tool Program	Date	11/5/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	16,657.8 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	
362.4	7.25	102.97	361.4	-5.1	22.3	2.00	2.00	0.00	102.97	
8,101.4	7.25	102.97	8,038.6	-224.3	973.7	0.00	0.00	0.00	0.00	
8,463.8	0.00	0.00	8,400.0	-229.4	996.0	2.00	-2.00	0.00	180.00	
8,599.3	0.00	0.00	8,535.5	-229.4	996.0	0.00	0.00	0.00	0.00	
9,349.3	90.00	359.35	9,013.0	248.0	990.6	12.00	12.00	-0.09	359.35	
16,657.8	90.00	359.35	9,013.0	7,556.1	907.7	0.00	0.00	0.00	0.00	LTP/BHL - Moonwatcl

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Moonwatch 17 8 State Com #504H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3962.0usft (3962)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3962.0usft (3962)
Site:	Moonwatch 17 8 State Com Pad 2	North Reference:	Grid
Well:	Moonwatch 17 8 State Com #504H	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	2.00	102.97	100.0	-0.4	1.7	-0.4	2.00	2.00	0.00
200.0	4.00	102.97	199.8	-1.6	6.8	-1.6	2.00	2.00	0.00
300.0	6.00	102.97	299.5	-3.5	15.3	-3.7	2.00	2.00	0.00
362.4	7.25	102.97	361.4	-5.1	22.3	-5.4	2.00	2.00	0.00
KOP - Start 7739.0 hold at 362.4 MD									
400.0	7.25	102.97	398.7	-6.2	26.9	-6.5	0.00	0.00	0.00
500.0	7.25	102.97	497.9	-9.0	39.2	-9.5	0.00	0.00	0.00
600.0	7.25	102.97	597.1	-11.9	51.5	-12.4	0.00	0.00	0.00
700.0	7.25	102.97	696.3	-14.7	63.8	-15.4	0.00	0.00	0.00
800.0	7.25	102.97	795.5	-17.5	76.1	-18.4	0.00	0.00	0.00
900.0	7.25	102.97	894.7	-20.4	88.4	-21.4	0.00	0.00	0.00
1,000.0	7.25	102.97	993.9	-23.2	100.7	-24.3	0.00	0.00	0.00
1,100.0	7.25	102.97	1,093.1	-26.0	113.0	-27.3	0.00	0.00	0.00
1,200.0	7.25	102.97	1,192.3	-28.9	125.3	-30.3	0.00	0.00	0.00
1,300.0	7.25	102.97	1,291.5	-31.7	137.6	-33.2	0.00	0.00	0.00
1,400.0	7.25	102.97	1,390.7	-34.5	149.9	-36.2	0.00	0.00	0.00
1,500.0	7.25	102.97	1,489.9	-37.3	162.2	-39.2	0.00	0.00	0.00
1,600.0	7.25	102.97	1,589.1	-40.2	174.5	-42.2	0.00	0.00	0.00
1,700.0	7.25	102.97	1,688.3	-43.0	186.7	-45.1	0.00	0.00	0.00
1,722.8	7.25	102.97	1,711.0	-43.7	189.6	-45.8	0.00	0.00	0.00
RUSTLER									
1,800.0	7.25	102.97	1,787.5	-45.8	199.0	-48.1	0.00	0.00	0.00
1,895.2	7.25	102.97	1,882.0	-48.5	210.7	-50.9	0.00	0.00	0.00
SOLADO									
1,900.0	7.25	102.97	1,886.7	-48.7	211.3	-51.1	0.00	0.00	0.00
2,000.0	7.25	102.97	1,986.0	-51.5	223.6	-54.0	0.00	0.00	0.00
2,100.0	7.25	102.97	2,085.2	-54.3	235.9	-57.0	0.00	0.00	0.00
2,200.0	7.25	102.97	2,184.4	-57.2	248.2	-60.0	0.00	0.00	0.00
2,300.0	7.25	102.97	2,283.6	-60.0	260.5	-63.0	0.00	0.00	0.00
2,400.0	7.25	102.97	2,382.8	-62.8	272.8	-65.9	0.00	0.00	0.00
2,500.0	7.25	102.97	2,482.0	-65.7	285.1	-68.9	0.00	0.00	0.00
2,600.0	7.25	102.97	2,581.2	-68.5	297.4	-71.9	0.00	0.00	0.00
2,700.0	7.25	102.97	2,680.4	-71.3	309.7	-74.8	0.00	0.00	0.00
2,800.0	7.25	102.97	2,779.6	-74.2	322.0	-77.8	0.00	0.00	0.00
2,900.0	7.25	102.97	2,878.8	-77.0	334.3	-80.8	0.00	0.00	0.00
3,000.0	7.25	102.97	2,978.0	-79.8	346.6	-83.7	0.00	0.00	0.00
3,100.0	7.25	102.97	3,077.2	-82.7	358.9	-86.7	0.00	0.00	0.00
3,150.2	7.25	102.97	3,127.0	-84.1	365.0	-88.2	0.00	0.00	0.00
BASE_OF_SALT									
3,200.0	7.25	102.97	3,176.4	-85.5	371.2	-89.7	0.00	0.00	0.00
3,203.7	7.25	102.97	3,180.0	-85.6	371.6	-89.8	0.00	0.00	0.00
YATES									
3,300.0	7.25	102.97	3,275.6	-88.3	383.4	-92.7	0.00	0.00	0.00
3,400.0	7.25	102.97	3,374.8	-91.1	395.7	-95.6	0.00	0.00	0.00
3,500.0	7.25	102.97	3,474.0	-94.0	408.0	-98.6	0.00	0.00	0.00
3,600.0	7.25	102.97	3,573.2	-96.8	420.3	-101.6	0.00	0.00	0.00
3,676.4	7.25	102.97	3,649.0	-99.0	429.7	-103.8	0.00	0.00	0.00
SVRV									
3,700.0	7.25	102.97	3,672.4	-99.6	432.6	-104.5	0.00	0.00	0.00
3,800.0	7.25	102.97	3,771.6	-102.5	444.9	-107.5	0.00	0.00	0.00
3,900.0	7.25	102.97	3,870.8	-105.3	457.2	-110.5	0.00	0.00	0.00
4,000.0	7.25	102.97	3,970.0	-108.1	469.5	-113.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Moonwatch 17 8 State Com #504H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3962.0usft (3962)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3962.0usft (3962)
Site:	Moonwatch 17 8 State Com Pad 2	North Reference:	Grid
Well:	Moonwatch 17 8 State Com #504H	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)
4,100.0	7.25	102.97	4,069.2	-111.0	481.8	-116.4	0.00	0.00	0.00
4,200.0	7.25	102.97	4,168.4	-113.8	494.1	-119.4	0.00	0.00	0.00
4,300.0	7.25	102.97	4,267.6	-116.6	506.4	-122.4	0.00	0.00	0.00
4,400.0	7.25	102.97	4,366.8	-119.5	518.7	-125.3	0.00	0.00	0.00
4,500.0	7.25	102.97	4,466.0	-122.3	531.0	-128.3	0.00	0.00	0.00
4,600.0	7.25	102.97	4,565.2	-125.1	543.3	-131.3	0.00	0.00	0.00
4,624.0	7.25	102.97	4,589.0	-125.8	546.2	-132.0	0.00	0.00	0.00
QUEEN									
4,700.0	7.25	102.97	4,664.4	-128.0	555.6	-134.2	0.00	0.00	0.00
4,800.0	7.25	102.97	4,763.6	-130.8	567.9	-137.2	0.00	0.00	0.00
4,900.0	7.25	102.97	4,862.8	-133.6	580.1	-140.2	0.00	0.00	0.00
5,000.0	7.25	102.97	4,962.0	-136.4	592.4	-143.2	0.00	0.00	0.00
5,100.0	7.25	102.97	5,061.2	-139.3	604.7	-146.1	0.00	0.00	0.00
5,200.0	7.25	102.97	5,160.4	-142.1	617.0	-149.1	0.00	0.00	0.00
5,300.0	7.25	102.97	5,259.6	-144.9	629.3	-152.1	0.00	0.00	0.00
5,400.0	7.25	102.97	5,358.8	-147.8	641.6	-155.0	0.00	0.00	0.00
5,500.0	7.25	102.97	5,458.0	-150.6	653.9	-158.0	0.00	0.00	0.00
5,600.0	7.25	102.97	5,557.2	-153.4	666.2	-161.0	0.00	0.00	0.00
5,700.0	7.25	102.97	5,656.4	-156.3	678.5	-164.0	0.00	0.00	0.00
5,800.0	7.25	102.97	5,755.6	-159.1	690.8	-166.9	0.00	0.00	0.00
5,900.0	7.25	102.97	5,854.8	-161.9	703.1	-169.9	0.00	0.00	0.00
6,000.0	7.25	102.97	5,954.0	-164.8	715.4	-172.9	0.00	0.00	0.00
6,079.6	7.25	102.97	6,033.0	-167.0	725.2	-175.2	0.00	0.00	0.00
DELAWARE_SANDS									
6,100.0	7.25	102.97	6,053.2	-167.6	727.7	-175.8	0.00	0.00	0.00
6,200.0	7.25	102.97	6,152.4	-170.4	740.0	-178.8	0.00	0.00	0.00
6,239.9	7.25	102.97	6,192.0	-171.6	744.9	-180.0	0.00	0.00	0.00
BRUSHY_CANYON									
6,300.0	7.25	102.97	6,251.6	-173.3	752.3	-181.8	0.00	0.00	0.00
6,400.0	7.25	102.97	6,350.8	-176.1	764.6	-184.8	0.00	0.00	0.00
6,500.0	7.25	102.97	6,450.0	-178.9	776.8	-187.7	0.00	0.00	0.00
6,518.1	7.25	102.97	6,468.0	-179.4	779.1	-188.3	0.00	0.00	0.00
BSPG_LIME									
6,600.0	7.25	102.97	6,549.2	-181.8	789.1	-190.7	0.00	0.00	0.00
6,700.0	7.25	102.97	6,648.4	-184.6	801.4	-193.7	0.00	0.00	0.00
6,800.0	7.25	102.97	6,747.6	-187.4	813.7	-196.6	0.00	0.00	0.00
6,900.0	7.25	102.97	6,846.8	-190.2	826.0	-199.6	0.00	0.00	0.00
7,000.0	7.25	102.97	6,946.0	-193.1	838.3	-202.6	0.00	0.00	0.00
7,100.0	7.25	102.97	7,045.2	-195.9	850.6	-205.5	0.00	0.00	0.00
7,200.0	7.25	102.97	7,144.4	-198.7	862.9	-208.5	0.00	0.00	0.00
7,300.0	7.25	102.97	7,243.6	-201.6	875.2	-211.5	0.00	0.00	0.00
7,400.0	7.25	102.97	7,342.8	-204.4	887.5	-214.5	0.00	0.00	0.00
7,500.0	7.25	102.97	7,442.0	-207.2	899.8	-217.4	0.00	0.00	0.00
7,600.0	7.25	102.97	7,541.2	-210.1	912.1	-220.4	0.00	0.00	0.00
7,700.0	7.25	102.97	7,640.4	-212.9	924.4	-223.4	0.00	0.00	0.00
7,800.0	7.25	102.97	7,739.6	-215.7	936.7	-226.3	0.00	0.00	0.00
7,900.0	7.25	102.97	7,838.8	-218.6	949.0	-229.3	0.00	0.00	0.00
8,000.0	7.25	102.97	7,938.0	-221.4	961.3	-232.3	0.00	0.00	0.00
8,100.0	7.25	102.97	8,037.2	-224.2	973.5	-235.3	0.00	0.00	0.00
8,101.4	7.25	102.97	8,038.6	-224.3	973.7	-235.3	0.00	0.00	0.00
Start Drop -2.00									
8,199.4	5.29	102.97	8,136.0	-226.7	984.1	-237.8	2.00	-2.00	0.00
FBSG_SD									

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Moonwatch 17 8 State Com #504H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3962.0usft (3962)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3962.0usft (3962)
Site:	Moonwatch 17 8 State Com Pad 2	North Reference:	Grid
Well:	Moonwatch 17 8 State Com #504H	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)
8,200.0	5.28	102.97	8,136.6	-226.7	984.2	-237.8	2.00	-2.00	0.00
8,256.6	4.14	102.97	8,193.0	-227.7	988.7	-238.9	2.00	-2.00	0.00
SBSG_CARB									
8,300.0	3.28	102.97	8,236.3	-228.3	991.5	-239.6	2.00	-2.00	0.00
8,307.7	3.12	102.97	8,244.0	-228.4	991.9	-239.7	2.00	-2.00	0.00
SBSG_SHALE									
8,400.0	1.28	102.97	8,336.2	-229.2	995.3	-240.5	2.00	-2.00	0.00
8,463.8	0.00	0.00	8,400.0	-229.4	996.0	-240.7	2.00	-2.00	0.00
Start 135.5 hold at 8463.8 MD									
8,500.0	0.00	0.00	8,436.2	-229.4	996.0	-240.7	0.00	0.00	0.00
8,599.3	0.00	0.00	8,535.5	-229.4	996.0	-240.7	0.00	0.00	0.00
KOP #2 - Start DLS 12.00 TFO 359.35									
8,600.0	0.09	359.35	8,536.2	-229.4	996.0	-240.7	12.00	12.00	0.00
8,681.2	9.83	359.35	8,617.0	-222.4	995.9	-233.7	12.00	12.00	0.00
SBSG_SD									
8,700.0	12.09	359.35	8,635.5	-218.8	995.9	-230.1	12.00	12.00	0.00
8,800.0	24.09	359.35	8,730.4	-187.8	995.5	-199.1	12.00	12.00	0.00
8,900.0	36.09	359.35	8,816.7	-137.8	995.0	-149.1	12.00	12.00	0.00
9,000.0	48.09	359.35	8,890.8	-70.9	994.2	-82.2	12.00	12.00	0.00
FTP - Moonwatch 17 8 State Com #504H									
9,100.0	60.09	359.35	8,949.4	10.0	993.3	-1.3	12.00	12.00	0.00
9,200.0	72.09	359.35	8,989.8	101.2	992.3	89.9	12.00	12.00	0.00
9,300.0	84.09	359.35	9,010.4	198.9	991.2	187.6	12.00	12.00	0.00
9,349.3	90.00	359.35	9,013.0	248.0	990.6	236.8	12.00	12.00	0.00
LP - Start 7308.6 hold at 9349.3 MD									
9,400.0	90.00	359.35	9,013.0	298.8	990.0	287.5	0.00	0.00	0.00
9,500.0	90.00	359.35	9,013.0	398.8	988.9	387.5	0.00	0.00	0.00
9,600.0	90.00	359.35	9,013.0	498.8	987.8	487.5	0.00	0.00	0.00
9,700.0	90.00	359.35	9,013.0	598.7	986.6	587.5	0.00	0.00	0.00
9,800.0	90.00	359.35	9,013.0	698.7	985.5	687.5	0.00	0.00	0.00
9,900.0	90.00	359.35	9,013.0	798.7	984.4	787.5	0.00	0.00	0.00
10,000.0	90.00	359.35	9,013.0	898.7	983.2	887.5	0.00	0.00	0.00
10,100.0	90.00	359.35	9,013.0	998.7	982.1	987.5	0.00	0.00	0.00
10,200.0	90.00	359.35	9,013.0	1,098.7	981.0	1,087.5	0.00	0.00	0.00
10,300.0	90.00	359.35	9,013.0	1,198.7	979.8	1,187.5	0.00	0.00	0.00
10,400.0	90.00	359.35	9,013.0	1,298.7	978.7	1,287.5	0.00	0.00	0.00
10,500.0	90.00	359.35	9,013.0	1,398.7	977.5	1,387.5	0.00	0.00	0.00
10,600.0	90.00	359.35	9,013.0	1,498.7	976.4	1,487.5	0.00	0.00	0.00
10,700.0	90.00	359.35	9,013.0	1,598.7	975.3	1,587.5	0.00	0.00	0.00
10,800.0	90.00	359.35	9,013.0	1,698.7	974.1	1,687.5	0.00	0.00	0.00
10,900.0	90.00	359.35	9,013.0	1,798.7	973.0	1,787.5	0.00	0.00	0.00
11,000.0	90.00	359.35	9,013.0	1,898.7	971.9	1,887.5	0.00	0.00	0.00
11,100.0	90.00	359.35	9,013.0	1,998.7	970.7	1,987.5	0.00	0.00	0.00
11,200.0	90.00	359.35	9,013.0	2,098.7	969.6	2,087.5	0.00	0.00	0.00
11,300.0	90.00	359.35	9,013.0	2,198.6	968.5	2,187.5	0.00	0.00	0.00
11,400.0	90.00	359.35	9,013.0	2,298.6	967.3	2,287.5	0.00	0.00	0.00
11,500.0	90.00	359.35	9,013.0	2,398.6	966.2	2,387.5	0.00	0.00	0.00
11,600.0	90.00	359.35	9,013.0	2,498.6	965.1	2,487.5	0.00	0.00	0.00
11,700.0	90.00	359.35	9,013.0	2,598.6	963.9	2,587.5	0.00	0.00	0.00
11,800.0	90.00	359.35	9,013.0	2,698.6	962.8	2,687.5	0.00	0.00	0.00
11,900.0	90.00	359.35	9,013.0	2,798.6	961.7	2,787.5	0.00	0.00	0.00
12,000.0	90.00	359.35	9,013.0	2,898.6	960.5	2,887.5	0.00	0.00	0.00
12,100.0	90.00	359.35	9,013.0	2,998.6	959.4	2,987.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Moonwatch 17 8 State Com #504H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3962.0usft (3962)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3962.0usft (3962)
Site:	Moonwatch 17 8 State Com Pad 2	North Reference:	Grid
Well:	Moonwatch 17 8 State Com #504H	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)
12,200.0	90.00	359.35	9,013.0	3,098.6	958.3	3,087.5	0.00	0.00	0.00
12,300.0	90.00	359.35	9,013.0	3,198.6	957.1	3,187.5	0.00	0.00	0.00
12,400.0	90.00	359.35	9,013.0	3,298.6	956.0	3,287.5	0.00	0.00	0.00
12,500.0	90.00	359.35	9,013.0	3,398.6	954.9	3,387.5	0.00	0.00	0.00
12,600.0	90.00	359.35	9,013.0	3,498.6	953.7	3,487.5	0.00	0.00	0.00
12,700.0	90.00	359.35	9,013.0	3,598.6	952.6	3,587.5	0.00	0.00	0.00
12,800.0	90.00	359.35	9,013.0	3,698.5	951.5	3,687.5	0.00	0.00	0.00
12,900.0	90.00	359.35	9,013.0	3,798.5	950.3	3,787.5	0.00	0.00	0.00
13,000.0	90.00	359.35	9,013.0	3,898.5	949.2	3,887.5	0.00	0.00	0.00
13,100.0	90.00	359.35	9,013.0	3,998.5	948.0	3,987.5	0.00	0.00	0.00
13,200.0	90.00	359.35	9,013.0	4,098.5	946.9	4,087.5	0.00	0.00	0.00
13,300.0	90.00	359.35	9,013.0	4,198.5	945.8	4,187.5	0.00	0.00	0.00
13,400.0	90.00	359.35	9,013.0	4,298.5	944.6	4,287.5	0.00	0.00	0.00
13,500.0	90.00	359.35	9,013.0	4,398.5	943.5	4,387.5	0.00	0.00	0.00
13,600.0	90.00	359.35	9,013.0	4,498.5	942.4	4,487.5	0.00	0.00	0.00
13,700.0	90.00	359.35	9,013.0	4,598.5	941.2	4,587.5	0.00	0.00	0.00
13,800.0	90.00	359.35	9,013.0	4,698.5	940.1	4,687.5	0.00	0.00	0.00
13,900.0	90.00	359.35	9,013.0	4,798.5	939.0	4,787.5	0.00	0.00	0.00
14,000.0	90.00	359.35	9,013.0	4,898.5	937.8	4,887.5	0.00	0.00	0.00
14,100.0	90.00	359.35	9,013.0	4,998.5	936.7	4,987.5	0.00	0.00	0.00
14,200.0	90.00	359.35	9,013.0	5,098.5	935.6	5,087.5	0.00	0.00	0.00
14,300.0	90.00	359.35	9,013.0	5,198.5	934.4	5,187.5	0.00	0.00	0.00
14,400.0	90.00	359.35	9,013.0	5,298.4	933.3	5,287.5	0.00	0.00	0.00
14,500.0	90.00	359.35	9,013.0	5,398.4	932.2	5,387.5	0.00	0.00	0.00
14,600.0	90.00	359.35	9,013.0	5,498.4	931.0	5,487.5	0.00	0.00	0.00
14,700.0	90.00	359.35	9,013.0	5,598.4	929.9	5,587.5	0.00	0.00	0.00
14,800.0	90.00	359.35	9,013.0	5,698.4	928.8	5,687.5	0.00	0.00	0.00
14,900.0	90.00	359.35	9,013.0	5,798.4	927.6	5,787.5	0.00	0.00	0.00
15,000.0	90.00	359.35	9,013.0	5,898.4	926.5	5,887.5	0.00	0.00	0.00
15,100.0	90.00	359.35	9,013.0	5,998.4	925.4	5,987.5	0.00	0.00	0.00
15,200.0	90.00	359.35	9,013.0	6,098.4	924.2	6,087.5	0.00	0.00	0.00
15,300.0	90.00	359.35	9,013.0	6,198.4	923.1	6,187.5	0.00	0.00	0.00
15,400.0	90.00	359.35	9,013.0	6,298.4	922.0	6,287.5	0.00	0.00	0.00
15,500.0	90.00	359.35	9,013.0	6,398.4	920.8	6,387.5	0.00	0.00	0.00
15,600.0	90.00	359.35	9,013.0	6,498.4	919.7	6,487.5	0.00	0.00	0.00
15,700.0	90.00	359.35	9,013.0	6,598.4	918.5	6,587.5	0.00	0.00	0.00
15,800.0	90.00	359.35	9,013.0	6,698.4	917.4	6,687.5	0.00	0.00	0.00
15,900.0	90.00	359.35	9,013.0	6,798.4	916.3	6,787.5	0.00	0.00	0.00
16,000.0	90.00	359.35	9,013.0	6,898.3	915.1	6,887.5	0.00	0.00	0.00
16,100.0	90.00	359.35	9,013.0	6,998.3	914.0	6,987.5	0.00	0.00	0.00
16,200.0	90.00	359.35	9,013.0	7,098.3	912.9	7,087.5	0.00	0.00	0.00
16,300.0	90.00	359.35	9,013.0	7,198.3	911.7	7,187.5	0.00	0.00	0.00
16,400.0	90.00	359.35	9,013.0	7,298.3	910.6	7,287.5	0.00	0.00	0.00
16,500.0	90.00	359.35	9,013.0	7,398.3	909.5	7,387.5	0.00	0.00	0.00
16,600.0	90.00	359.35	9,013.0	7,498.3	908.3	7,487.5	0.00	0.00	0.00
16,657.8	90.00	359.35	9,013.0	7,556.1	907.7	7,545.3	0.00	0.00	0.00
TD at 16657.8 - LTP/BHL - Moonwatch 17 8 State Com #504H									

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Moonwatch 17 8 State Com #504H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3962.0usft (3962)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3962.0usft (3962)
Site:	Moonwatch 17 8 State Com Pad 2	North Reference:	Grid
Well:	Moonwatch 17 8 State Com #504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP - Moonwatch 17 8 S	0.00	0.00	9,013.0	-184.4	996.0	634,288.61	806,135.35	32.740738	-103.472132
- plan misses target center by 166.8usft at 9000.0usft MD (8890.8 TVD, -70.9 N, 994.2 E)									
- Point									
LTP/BHL - Moonwatch 1	0.00	0.00	9,013.0	7,556.1	907.7	642,029.16	806,047.01	32.762014	-103.472215
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,722.8	1,711.0	RUSTLER				
1,895.2	1,882.0	SOLADO				
3,150.2	3,127.0	BASE_OF_SALT				
3,203.7	3,180.0	YATES				
3,676.4	3,649.0	SVRV				
4,624.0	4,589.0	QUEEN				
6,079.6	6,033.0	DELAWARE_SANDS				
6,239.9	6,192.0	BRUSHY_CANYON				
6,518.1	6,468.0	BSPG_LIME				
8,199.4	8,136.0	FBSG_SD				
8,256.6	8,193.0	SBSG_CARB				
8,307.7	8,244.0	SBSG_SHALE				
8,681.2	8,617.0	SBSG_SD				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
362.4	361.4	-5.1	22.3	KOP - Start 7739.0 hold at 362.4 MD
8,101.4	8,038.6	-224.3	973.7	Start Drop -2.00
8,463.8	8,400.0	-229.4	996.0	Start 135.5 hold at 8463.8 MD
8,599.3	8,535.5	-229.4	996.0	KOP #2 - Start DLS 12.00 TFO 359.35
9,349.3	9,013.0	248.0	990.6	LP - Start 7308.6 hold at 9349.3 MD
16,657.8	9,013.0	7,556.1	907.7	TD at 16657.8

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Avant Operating II, LLC **OGRID:** 332947 **Date:** 09/29/2025

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Moonwatch 17 8 State Com 503H		M-17-T18S-R35E	289FSL/1404FEL	845 BBL/D	1350 MCF/D	6500 BBL/D
Moonwatch 17 8 State Com 504H		M-17-T18S-R35E	288FSL/1324FEL	845 BBL/D	1350 MCF/D	6500 BBL/D
Moonwatch 17 8 State Com 602H		M-17-T18S-R35E	289FSL/1444FEL	1005 BBL/D	1100 MCF/D	7000 BBL/D
Moonwatch 17 8 State Com 603H		M-17-T18S-R35E	289FSL/1364FEL	1005 BBL/D	1100 MCF/D	7000BBL/D
Moonwatch 17 8 State Com 832H		M-17-T18S-R35E	289FSL/1424FEL	1010 BBL/D	2500 MCF/D	5800 BBL/D
Moonwatch 17 8 State Com 833H		M-17-T18S-R35E	289FSL/1384FEL	1010 BBL/D	2500 MCF/D	5800 BBL/D
Moonwatch 17 8 State Com 834H		M-17-T18S-R35E	289FSL/1344FEL	1010 BBL/D	2500 MCF/D	5800 BBL/D

IV. Central Delivery Point Name: Moonwatch CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Moonwatch 17 8 State Com 503H		02/01/2026	3/18/2026	07/27/2026	08/27/2026	08/27/2026
Moonwatch 17 8 State Com 504H		02/01/2026	3/18/2026	07/27/2026	08/27/2026	08/27/2026
Moonwatch 17 8 State Com 602H		02/01/2026	3/18/2026	07/27/2026	08/27/2026	08/27/2026
Moonwatch 17 8 State Com 603H		02/01/2026	3/18/2026	07/27/2026	08/27/2026	08/27/2026
Moonwatch 17 8 State Com 832H		02/01/2026	3/18/2026	07/27/2026	08/27/2026	08/27/2026
Moonwatch 17 8 State Com 833H		02/01/2026	3/18/2026	07/27/2026	08/27/2026	08/27/2026
Moonwatch 17 8 State Com 834H		02/01/2026	3/18/2026	07/27/2026	08/27/2026	08/27/2026

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VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

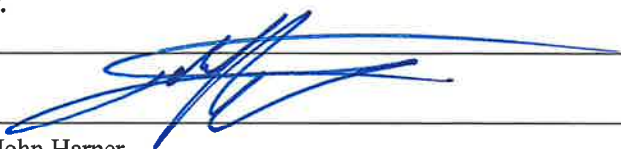
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: John Harper
Title: SVP – Assets and Exploration
E-mail Address: John@avantnr.com
Date: 11/13/25
Phone: 678-988-6644
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Avant Operating II, LLC Natural Gas Management Plan

VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.

VII. Avant Operating, LLC (Avant) will take the following actions to comply with the regulations listed in 19.15.27.8:

- A. Avant will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Avant will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.
- B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. Avant will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week, and the gas will be routed into a gathering system as soon as pipeline specifications are met.
- D. Avant will comply with the performance standards requirements and provisions listed in 19.15.27.8 (1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. Avant will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
- E. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. Avant will install equipment to measure
- F. Measurement meters will be in place for low- and high-pressure gas that is flared due to not being able to use for reuse or sales. Equipment will be installed off tanks to reduce vented gas and the gas will be measured with a meter.

VIII. Best Management Practices: Avant plans to communicate consistently with midstream partners to ensure sufficient takeaway capacity is available and understand planned maintenance to minimize venting. Avant will depressurize equipment and capture vented gases for reuse before any maintenance occurs. Avant will use vapor recovery units for the vented gas off the tanks to capture for reuse or sales to minimize venting during active operations. Avant will be proactive on inspections to identify and fix leaks before they escalate.