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 403313

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

AFFEIGATION FOR FERMIN TO BRIEF, RE-ENTER, BEEFEIN, FEOGRACH, OR ADD A ZONE											
1. Operator Name	and Address					•		2. OGRID	Number		
Avant Operating II, LLC								332947			
1515 Wynkoop Street 3. AP					3. API Nu	ımber					
Denve	r, CO 80202								30-025-55468		
4. Property Code		5. Prop	erty Name					6. Well No	0.		
338098 MOONWATCH 17 8 STATE COM						502H					
				7. Surfa	ce Location		•	•			•
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From		E/W Line	County	
NA.	17	100	250	N.4	405		10	4.4	١٨/		1 00

8. Proposed Bottom Hole Location N/S Line E/W Line UL - Lot Section Lot Idn Feet From Township Range Feet From County 18S 35E 2543 1870 W Lea

9. Pool Information

WC-025 G-06 S183518A;BONE SPRING 97930

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3949
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	16626	2nd Bone Spring Sand		2/1/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

 ${\ensuremath{\overline{\boxtimes}}}$ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

				Z I. I Toposca Gasing	j ana ociniciti i rogram		
	Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
	Surf	14.75	10.75	40.5	1742	625	0
	Int1	9.875	8.625	32	3239	290	0
F	Prod	7.875	5.5	20	16626	1890	0

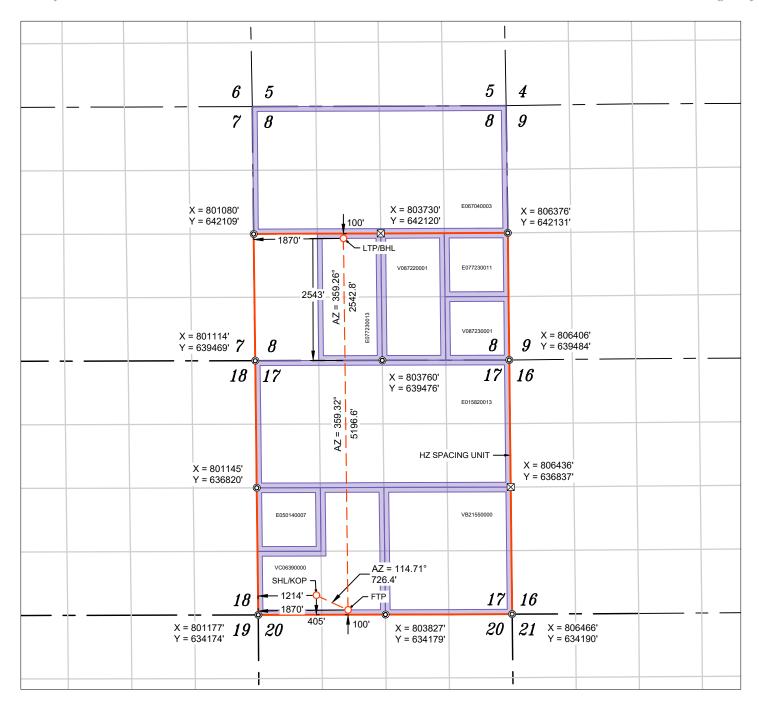
Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	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:				OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Sarah Ferre	yros	Approved By:	Jeffrey Harrison	
Title:	Director of Regulatory		Title:	Petroleum Specialist III	
Email Address: sarah@avantnr.com			Approved Date:	11/18/2025	Expiration Date: 11/18/2027
Date: 11/14/2025 Phone: 720-854-9020			Conditions of Appr	oval Attached	

C-102 Submit Electronically			State of Nev Energy, Minerals & Natur OIL CONSERVA				al Resources Department			Revised July 9, 2024		
	Electronicall D Permitting			OIL	CONSERV	AIIC	JN DIVISION				bmittal	
									Submitta Type:	al ☐ Amended	Report	
				13pc.						☐ As Drilled		
					WELL LOC	ATIO	N INFORMATION		'	•		
30-025-55468 97930					Pool	Name WC-02:	5 G-06 S	183518	8A;BONE S	SPRING		
Property 338	y Code 8098		Property Na	ame	MOONWA [*]	TCH 1	17 8 STATE COM	l		Well Numbe	er #502H	
OGRID	No.	947	Operator Na	ame	AVANT	OPER	RATING II, LLC			Ground Leve	el Elevation 3949'	
Surface	Owner: 🛛 S	State 🗆 Fee 🗆	Tribal 🗆 Fe	deral			Mineral Owner: ⊠ St	tate Fee	□ Tribal [□ Federal		
					Su	rface I	Location					
UL	Section	Township	Range	Lot	Ft. from N/S]	Ft. from E/W	Latitude		Longitude	County	
М	17	18 S	35 E		405' FSL	-	1214' FWL	32.741	626°	-103.484316°	LEA	
					Botto	om Hol	le Location					
UL	Section	Township	Range	Lot	Ft. from N/S]	Ft. from E/W	Latitude		Longitude	County	
K	8	18 S	35 E		2543' FS	L	1870' FWL	32.762	048°	-103.482283°	LEA	
	ed Acres	Infill or Defir	_	Defining Well API			Overlapping Spacing U	; Unit (Y/N) Con		nsolidation Code		
		Infil		n/a			No			n/a		
Order N	Numbers.		n/a				Well setbacks are un	der Commo	n Ownersl	hip: ∐Yes ⊠No		
					Kick	Off Po	oint (KOP)					
UL	Section	Township	Range	Lot	Ft. from N/S]	Ft. from E/W	Latitude		Longitude	County	
М	17	18 S	35 E		405' FSL	-	1214' FWL	32.741	626°	-103.484316°	LEA	
					First	Take l	Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N/S]	Ft. from E/W	Latitude		Longitude	County	
N	17	18 S	35 E		100' FSL	-	1870' FWL	32.740	776°	-103.482178°	LEA	
					Last	Take I	Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W	Latitude		Longitude	County	
K	8	18 S	35 E		2543' FS	L	1870' FWL	32.762	048°	-103.482283°	LEA	
Unitized	d Area or Are	ea of Uniform II No	nterest	Spacing	Unit Type 🛛 Ho	orizonta	ıl 🗆 Vertical	Grou	nd Floor E	levation: 3949'		
OPERA	TOR CERT	ΓΙΓΙCATIONS	<u> </u>			SII	JRVEYOR CERTIFI	CATIONS				
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				I he	ereby certify that the well veys made by me or under ny belief.	location shown						
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.					M	1		Anophissus	23203 O NR/E10F			
Signature	Suc	-	1 Date	1/12/20	25		gnature and Seal of Profe	assional Sur-	wor	310	WAL 30	
Signatur		oh Formar		•			•		•	125		
Printed 1		rah Ferreyı	US			_+_	203	OCTOBE Date of Sur		14J		
1 1111001		Maxiontor a	rom						•			
Email A	sarah@avantnr.com Email Address					-						



WELL NAME: MOONWATCH 17 8 STATE COM #502H ELEVATION: 3949'

NAD 83 (SHL/KOP) 405' FSL & 1214' FWL
LATITUDE = 32.741626°
LONGITUDE = -103.484316°
NAD 27 (SHL/KOP)
LATITUDE = 32.741508°
LONGITUDE = -103.483819°
STATE PLANE NAD 83 (N.M. EAST)
N: 634581.24' E: 802386.40'
STATE PLANE NAD 27 (N.M. EAST)
N: 634519.07' E: 761207.70'

NAD 83 (FTP) 100' FSL & 1870' FWL
LATITUDE = 32.740776°
LONGITUDE = -103.482178°
NAD 27 (FTP)
LATITUDE = 32.740659°
LONGITUDE = -103.481681°
STATE PLANE NAD 83 (N.M. EAST)
N: 634277.54' E: 803046.30'
STATE PLANE NAD 27 (N.M. EAST)
N: 634215.39' E: 761867.59'

NAD 83 (LTP/BHL) 2543' FSL & 1870' FWL
LATITUDE = 32.762048°
LONGITUDE = -103.482283°
NAD 27 (LTP/BHL)
LATITUDE = 32.761930°
LONGITUDE = -103.481785°
STATE PLANE NAD 83 (N.M. EAST)
N: 642016.39' E: 802951.74'
STATE PLANE NAD 27 (N.M. EAST)
N: 641954.00' E: 761773.25'

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.



APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP					
2548.82'					
2647.83'					
2542.78'					
7739.43'					



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 APD Conditions

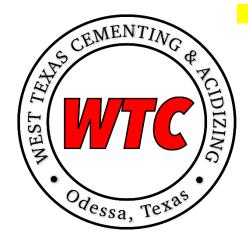
Permit 403313

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:		
Avant Operating II, LLC [332947]	30-025-55468		
1515 Wynkoop Street	Well:		
Denver, CO 80202	MOONWATCH 17 8 STATE COM #502H		

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	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
	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#: 251108123921-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 #502H

Lea County, NM

AFE Number: NM1465

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 Taxas Cementers LLC assumes no liability for advise or recommendations made or

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.

PRINTED 11/8/2025 12:40 VERSION: v0.29d

NOTES

Avant Operating II Moonwatch 17 8 State Com #502H Lea County, NM

Surface

Standby charges start after WTC has been on location for more than 4-hrs.



PROPOSAL#: 251108123921-A

	WELL INFORMATION	
MUD	8.4# Fresh Water	
PREVIOUS PIPE	20" 94# CSG to 120	
OPEN HOLE	14.75" OH to 1742	
CASING/INJECTION	10.75" 40.5# J-55/BTC to 1742	
MD	1742	
EST BHST/BHCT	94-F / 87-F (0.8-F/100-FT)	

		1	VOLUMES			
FLUID NAME	LENGTH	OD	ID	XS	FACTOR	VOLUME
	(ft)	(in.)	(in.)	(%)	(bbl/ft)	(bbl)
Lead	120	19.124	10.75		0.2430	29.2
Lead	1273	14.75	10.75	0%	0.0991	126.1
Tail	349	14.75	10.75	0%	0.0991	34.6
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%

Surface



		PROPOSAL#: 251108123921-A
	Tail	
	100% Class C+0.5% CaCl2+0.25PPS TC	A100
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	1393-ft	
EXCESS	0%	
	DISPLACEMENT	
	Displacement	
VOLUME	167-bbl	

Intermediate



PROPOSAL#: 251108123921-A

	F NOT OSALW. 251100125521-A			
WELL INFORMATION				
MUD	10# Brine			
PREVIOUS PIPE	10.75" 40.5# CSG to 1742			
OPEN HOLE	9.875" OH to 3239			
CASING/INJECTION	8.625" 32# L-80 HC BK to 3239			
MD	3239			
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			
FI	LUID NAME	LENGTH	OD	ID	XS	FACTOR	VOLUME
		(ft)	(in.)	(in.)	(%)	(bbl/ft)	(bbl)
	Lead	1742	10.05	8.625		0.0258	45.0
	Lead	849	9.875	8.625	20%	0.0270	22.9
	Tail	648	9.875	8.625	20%	0.0270	17.5
S	HOE 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%				

Intermediate



		PROPOSAL#: 251108123921-A
	Tail	
	100% Class C+5% SALT+0.25PPS TCA	100
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	2591-ft	
EXCESS	20%	
	DISPLACEMENT	
	Displacement	
VOLUME	195-bbl	

Production



PROPOSAL#: 251108123921-A

	en e	PKUPUSAL#: 251108123921-A		
WELL INFORMATION				
MUD	9.2# OBM			
PREVIOUS PIPE	8.625" 32# CSG to 3239			
OPEN HOLE	7.875" OH to 16626			
CASING/INJECTION	5.5" 20# P-110 HC GBCD to 16626			
MD	16626			
TVD	9013			
EST BHST/BHCT	155-F / 155-F (0.83-F/100-FT)			
КОР	8569			
NOTES Standby charges start a	fter WTC has been on location for more than 8-hrs.			

			VOLUMES			
FLUID NAME	LENGTH	OD	ID	XS	FACTOR	VOLUME
	(ft)	(in.)	(in.)	(%)	(bbl/ft)	(bbl)
Lead	3239	7.921	5.5		0.0316	102.2
Lead	5330	7.875	5.5	20%	0.0370	197.4
Tail	8057	7.875	5.5	20%	0.0370	298.3
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

	и
ΙОО	
	₩.

100% ProLite+5PPS Plexcrete STE+2% SMS+0.65% R-1300+0.5% FL-24+3PPS Gilsonite+0.5PPS TCA100

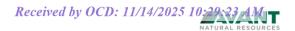
VOLUME 500-SX Slurry Volume: 302.8-bbls
DENSITY 10.7-ppg Mix Water Required: 252-bbls
YIELD 3.4-cf/sx
MIX WATER 21.14-gps
TOP OF CEMENT Surface
EXCESS 20%

Production



		PROPOSAL#: 251108123921-A
	Tail	
50%	B_Poz+50% Class H+5% SALT+0.3% SMS+0.4% CRT-20	1+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	8569-ft	
EXCESS	20%	
	DISPLACEMENT	
	Displacement 0.25GPT Plexcide 24L+1G	PT Corplex
VOLUME	366.9-bbl	
DENSITY	8.34-ppg	

CHEMICAL DESCRIPTIONS				
CHEMICAL NAME	CODE	DESCRIPTION		
		50,000		
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		
20116 3641	VV 1 C207	1 Termani 2000 on calacion Material		



WELL DETAILS: Moonwatch 17 8 State Com #502H

Ground Elev: 3949.0 KB: 3974

+N/-S +E/-W Northing **Easting** Latittude Longitude 0.0 0.0 634581.24 802386.40 -103.484316 32.741626

PROJECT DETAILS: Lea County, NM (NAD 83)

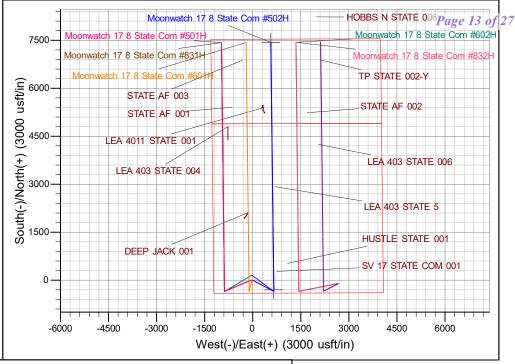
Geodetic System: US State Plane 1983

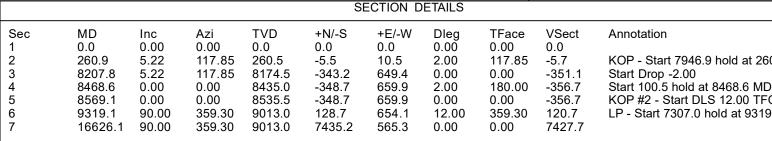
Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



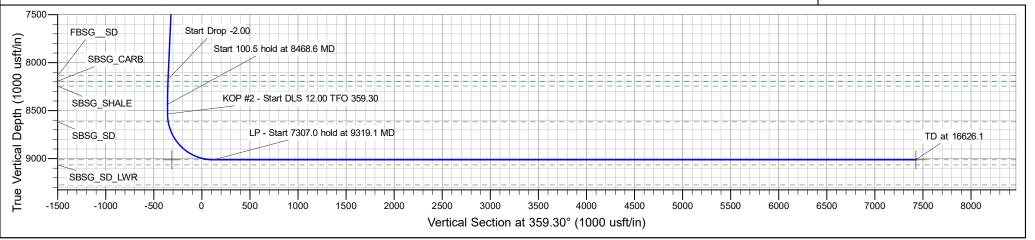


Т KOP - Start 7946.9 hold at 260.9 MD KOP #2 - Start DLS 12.00 TFO 359.30 LP - Start 7307.0 hold at 9319.1 MD

G

M Azimuths to Grid North True North: -0.46° Magnetic North: 7.29°

> Magnetic Field Strength: 49110.7nT Dip Angle: 60.74° Date: 12/31/2009 Model: IGRF200510



Avant Operating II, LLC

Lea County, NM (NAD 83) Moonwatch 17 8 State Com Pad 1 Moonwatch 17 8 State Com #502H

OH

Plan: Plan 0.1

Standard Planning Report

05 November, 2025

EDM 5000.16 Single User Db Database: Company: Avant Operating II, LLC Project: Lea County, NM (NAD 83) Moonwatch 17 8 State Com Pad 1 Site:

Well: Moonwatch 17 8 State Com #502H

Wellbore: OH Plan 0.1 Design:

Grid Convergence:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Moonwatch 17 8 State Com #502H

WELL @ 3974.0usft (3974) WELL @ 3974.0usft (3974)

Minimum Curvature

Project Lea County, NM (NAD 83)

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: New Mexico Eastern Zone Map Zone:

System Datum:

Mean Sea Level

Moonwatch 17 8 State Com Pad 1 Site

Northing: 634,581.05 usft Site Position: Latitude: 32.741627 From: Мар Easting: 802,326.40 usft Longitude: -103.484511

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well Moonwatch 17 8 State Com #502H **Well Position** +N/-S 0.0 usft Northing: 634,581.24 usft Latitude: 32.741626 +E/-W 0.0 usft Easting: 802,386.40 usft Longitude: -103.484316 **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,949.0 usft 0.46

ОН Wellbore Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) 49,110.66332857 IGRF200510 12/31/2009 7.75 60.74

Design Plan 0.1 **Audit Notes:** Phase: **PROTOTYPE** Tie On Depth: 0.0 Version: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 359.30 0.0 0.0 0.0

Plan Survey Tool Program Date 11/5/2025 **Depth From** Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 16,625.8 0.0 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	
260.9	5.22	117.85	260.5	-5.5	10.5	2.00	2.00	0.00	117.85	
8,207.8	5.22	117.85	8,174.5	-343.2	649.4	0.00	0.00	0.00	0.00	
8,468.6	0.00	0.00	8,435.0	-348.7	659.9	2.00	-2.00	0.00	180.00	
8,569.1	0.00	0.00	8,535.5	-348.7	659.9	0.00	0.00	0.00	0.00	
9,319.1	90.00	359.30	9,013.0	128.7	654.1	12.00	12.00	-0.09	359.30	
16,626.1	90.00	359.30	9,013.0	7,435.1	565.3	0.00	0.00	0.00	0.00	LTP/BHL - Moonwatch

Database: EDM 5000.16 Single User Db
Company: Avant Operating II, LLC
Project: Lea County, NM (NAD 83)
Site: Moonwatch 17 8 State Com Pad 1

Well: Moonwatch 17 8 State Com #502H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Moonwatch 17 8 State Com #502H

WELL @ 3974.0usft (3974) WELL @ 3974.0usft (3974)

Grid

ed 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	117.85	100.0	-0.8	1.5	-0.8	2.00	2.00	0.00
200.0	4.00	117.85	199.8	-3.3	6.2	-3.3	2.00	2.00	0.00
260.9	5.22	117.85	260.5	-5.5	10.5	-5.7	2.00	2.00	0.00
	7946.9 hold at 26								
300.0	5.22	117.85	299.5	-7.2	13.6	-7.4	0.00	0.00	0.00
400.0	5.22	117.85	399.1	-11.5	21.7	-11.7	0.00	0.00	0.00
500.0	5.22	117.85	498.6	-15.7	29.7	-16.1	0.00	0.00	0.00
600.0	5.22	117.85	598.2	-20.0	37.8	-20.4	0.00	0.00	0.00
700.0	5.22	117.85	697.8	-24.2	45.8	-24.8	0.00	0.00	0.00
800.0	5.22	117.85	797.4	-28.4	53.8	-29.1	0.00	0.00	0.00
900.0	5.22	117.85	897.0	-32.7	61.9	-33.5	0.00	0.00	0.00
1,000.0	5.22	117.85	996.6	-36.9	69.9	-37.8	0.00	0.00	0.00
1,100.0	5.22	117.85	1,096.2	-41.2	78.0	-42.1	0.00	0.00	0.00
1,200.0	5.22	117.85	1,195.7	-45.4	86.0	-46.5	0.00	0.00	0.00
1,300.0	5.22	117.85	1,295.3	-49.7	94.0	-50.8	0.00	0.00	0.00
1,400.0	5.22	117.85	1,394.9	-53.9	102.1	-55.2	0.00	0.00	0.00
1,500.0	5.22	117.85	1,494.5	-58.2	110.1	-59.5	0.00	0.00	0.00
1,600.0	5.22	117.85	1,594.1	-62.4	118.2	-63.9	0.00	0.00	0.00
1,700.0	5.22	117.85	1,693.7	-66.7	126.2	-68.2	0.00	0.00	0.00
1,717.4	5.22	117.85	1,711.0	-67.4	127.6	-69.0	0.00	0.00	0.00
RUSTLER									
1,800.0	5.22	117.85	1,793.3	-70.9	134.2	-72.6	0.00	0.00	0.00
1,889.1	5.22	117.85	1,882.0	-74.7	141.4	-76.4	0.00	0.00	0.00
SOLADO			,						
1,900.0	5.22	117.85	1,892.8	-75.2	142.3	-76.9	0.00	0.00	0.00
2,000.0	5.22	117.85	1,992.4	-79.4	150.3	-81.3	0.00	0.00	0.00
2,100.0	5.22	117.85	2,092.0	-83.7	158.4	-85.6	0.00	0.00	0.00
2,200.0	5.22	117.85	2,191.6	-87.9	166.4	-90.0	0.00	0.00	0.00
2,300.0	5.22	117.85	2,291.2	-92.2	174.4	-94.3	0.00	0.00	0.00
2,400.0	5.22	117.85	2,390.8	-96.4	182.5	-98.6	0.00	0.00	0.00
2,500.0	5.22	117.85	2,490.4	-100.7	190.5	-103.0	0.00	0.00	0.00
2,600.0	5.22	117.85	2,589.9	-104.9	198.6	-107.3	0.00	0.00	0.00
2,700.0	5.22	117.85	2,689.5	-109.2	206.6	-111.7	0.00	0.00	0.00
2,800.0	5.22	117.85	2,789.1	-113.4	214.6	-116.0	0.00	0.00	0.00
2,900.0	5.22	117.85	2,888.7	-117.7	222.7	-120.4	0.00	0.00	0.00
3,000.0	5.22	117.85	2,988.3	-121.9	230.7	-124.7	0.00	0.00	0.00
3,100.0	5.22	117.85	3,087.9	-126.2	238.8	-129.1	0.00	0.00	0.00
3,139.3	5.22	117.85	3,127.0	-127.8	241.9	-130.8	0.00	0.00	0.00
BASE_OF_S									
3,192.5	5.22	117.85	3,180.0	-130.1	246.2	-133.1	0.00	0.00	0.00
YATES									
3,200.0	5.22	117.85	3,187.5	-130.4	246.8	-133.4	0.00	0.00	0.00
3,300.0	5.22	117.85	3,287.0	-134.7	254.8	-137.8	0.00	0.00	0.00
3,400.0	5.22	117.85	3,386.6	-138.9	262.9	-142.1	0.00	0.00	0.00
3,500.0	5.22	117.85	3,486.2	-143.2	270.9	-146.5	0.00	0.00	0.00
3,600.0	5.22	117.85	3,585.8	-147.4	279.0	-150.8	0.00	0.00	0.00
3,663.5	5.22	117.85	3,649.0	-150.1	284.1	-153.6	0.00	0.00	0.00
SVRV			-,						
3,700.0	5.22	117.85	3,685.4	-151.7	287.0	-155.1	0.00	0.00	0.00
3,800.0	5.22	117.85	3,785.0	-155.9	295.0	-159.5	0.00	0.00	0.00
3,900.0	5.22 5.22	117.85 117.85	3,884.6 3,984.1	-160.1 -164.4	303.1 311.1	-163.8 -168.2	0.00 0.00	0.00 0.00	0.00 0.00

Database: EDM 5000.16 Single User Db
Company: Avant Operating II, LLC
Project: Lea County, NM (NAD 83)
Site: Moonwatch 17 8 State Com Pad 1

Well: Moonwatch 17 8 State Com #502H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Moonwatch 17 8 State Com #502H

WELL @ 3974.0usft (3974) WELL @ 3974.0usft (3974)

Grid

lanned 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	5.22	117.85	4,083.7	-168.6	319.2	-172.5	0.00	0.00	0.00
4,200.0	5.22	117.85	4,183.3	-172.9	327.2	-176.9	0.00	0.00	0.00
4,300.0	5.22	117.85	4,282.9	-177.1	335.2	-181.2	0.00	0.00	0.00
4,400.0	5.22	117.85	4,382.5	-181.4	343.3	-185.6	0.00	0.00	0.00
4,500.0	5.22	117.85	4,482.1	-185.6	351.3	-189.9	0.00	0.00	0.00
4,600.0	5.22	117.85	4,581.7	-189.9	359.3	-194.3	0.00	0.00	0.00
4,607.4	5.22	117.85	4,589.0	-190.2	359.9	-194.6	0.00	0.00	0.00
QUEEN 4,700.0	5.22	117.85	4,681.2	-194.1	367.4	-198.6	0.00	0.00	0.00
4,800.0	5.22	117.85	4,780.8	-198.4	375.4	-203.0	0.00	0.00	0.00
4,900.0	5.22	117.85	4,880.4	-202.6	383.5	-207.3	0.00	0.00	0.00
5,000.0	5.22	117.85	4,980.0	-206.9	391.5	-211.6	0.00	0.00	0.00
5,100.0	5.22	117.85	5,079.6	-211.1	399.5	-216.0	0.00	0.00	0.00
5,200.0	5.22	117.85	5,179.2	-215.4	407.6	-220.3	0.00	0.00	0.00
5,300.0	5.22	117.85	5,278.8	-219.6	415.6	-224.7	0.00	0.00	0.00
5,400.0	5.22	117.85	5,378.3	-223.9	423.7	-229.0	0.00	0.00	0.00
5,500.0	5.22	117.85	5,477.9	-228.1	431.7	-233.4	0.00	0.00	0.00
5,600.0	5.22	117.85	5,577.5	-232.4	439.7	-237.7	0.00	0.00	0.00
5,700.0	5.22	117.85	5,677.1	-236.6	447.8	-242.1	0.00	0.00	0.00
5,800.0	5.22	117.85	5,776.7	-240.9	455.8	-246.4	0.00	0.00	0.00
5,900.0	5.22	117.85	5,876.3	-245.1	463.9	-250.8	0.00	0.00	0.00
6,000.0	5.22	117.85	5,975.9	-249.4	471.9	-255.1	0.00	0.00	0.00
6,057.4	5.22	117.85	6,033.0	-251.8	476.5	-257.6	0.00	0.00	0.00
6,100.0	5.22	117.85	6,075.4	-253.6	479.9	-259.5	0.00	0.00	0.00
6,200.0	5.22	117.85	6,175.0	-257.9	488.0	-263.8	0.00	0.00	0.00
6,217.0	5.22	117.85	6,192.0	-258.6	489.4	-264.5	0.00	0.00	0.00
6,300.0	5.22	117.85	6,274.6	-262.1	496.0	-268.1	0.00	0.00	0.00
6,400.0	5.22	117.85	6,374.2	-266.4	504.1	-272.5	0.00	0.00	0.00
6,494.2	5.22	117.85	6,468.0	-270.4	511.6	-276.6	0.00	0.00	0.00
6,500.0	5.22	117.85	6,473.8	-270.6	512.1	-276.8	0.00	0.00	0.00
6,600.0 6,700.0 6,800.0 6,900.0	5.22 5.22 5.22 5.22 5.22	117.85 117.85 117.85 117.85	6,573.4 6,673.0 6,772.5 6,872.1	-274.9 -279.1 -283.3 -287.6	520.1 528.2 536.2 544.3	-270.0 -281.2 -285.5 -289.9 -294.2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
7,000.0	5.22	117.85	6,971.7	-291.8	552.3	-298.6	0.00	0.00	0.00
7,100.0	5.22	117.85	7,071.3	-296.1	560.3	-302.9	0.00	0.00	0.00
7,200.0	5.22	117.85	7,170.9	-300.3	568.4	-307.3	0.00	0.00	0.00
7,300.0	5.22	117.85	7,270.5	-304.6	576.4	-311.6	0.00	0.00	0.00
7,400.0	5.22	117.85	7,370.1	-308.8	584.5	-316.0	0.00	0.00	0.00
7,500.0	5.22	117.85	7,469.6	-313.1	592.5	-320.3	0.00	0.00	0.00
7,600.0	5.22	117.85	7,569.2	-317.3	600.5	-324.6	0.00	0.00	0.00
7,700.0	5.22	117.85	7,668.8	-321.6	608.6	-329.0	0.00	0.00	0.00
7,800.0	5.22	117.85	7,768.4	-325.8	616.6	-333.3	0.00	0.00	0.00
7,900.0 8,000.0 8,100.0 8,169.1 FBSG SD	5.22 5.22 5.22 5.22	117.85 117.85 117.85 117.85	7,868.0 7,967.6 8,067.2 8,136.0	-330.1 -334.3 -338.6 -341.5	624.7 632.7 640.7 646.3	-337.7 -342.0 -346.4 -349.4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
8,200.0	5.22	117.85	8,166.7	-342.8	648.8	-350.7	0.00	0.00	0.00
8,207.8	5.22	117.85	8,174.5	-343.2	649.4	-351.1	0.00	0.00	0.00

EDM 5000.16 Single User Db Database: Company: Avant Operating II, LLC Project: Lea County, NM (NAD 83) Moonwatch 17 8 State Com Pad 1 Site: Well:

Moonwatch 17 8 State Com #502H

Wellbore: ОН Design: Plan 0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Moonwatch 17 8 State Com #502H

WELL @ 3974.0usft (3974) WELL @ 3974.0usft (3974)

Grid

ed 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)
Start Drop -	2.00								
8,226.4	4.85	117.85	8,193.0	-343.9	650.8	-351.8	2.00	-2.00	0.00
SBSG_CAR	В								
8,277.5	3.82	117.85	8,244.0	-345.7	654.3	-353.7	2.00	-2.00	0.00
SBSG_SHA		447.05	0.000 5	246.4	055.5	254.4	0.00	2.00	0.00
8,300.0 8,400.0	3.37 1.37	117.85 117.85	8,266.5 8,366.4	-346.4 -348.3	655.5 659.2	-354.4 -356.3	2.00 2.00	-2.00 -2.00	0.00 0.00
8,468.6	0.00	0.00	8,435.0	-348.7	659.9	-356.7	2.00	-2.00	0.00
Start 100.5	hold at 8468.6 M	D							
8,500.0	0.00	0.00	8,466.4	-348.7	659.9	-356.7	0.00	0.00	0.00
8,569.1	0.00	0.00	8,535.5	-348.7	659.9	-356.7	0.00	0.00	0.00
KOP #2 - St 8,600.0	art DLS 12.00 TF 3.70	O 359.30 359.30	8,566.3	-347.7	659.9	-355.7	12.00	12.00	0.00
8,651.0	9.83	359.30	8,617.0	-341.7 -341.7	659.8	-349.7	12.00	12.00	0.00
SBSG_SD									
8,700.0	15.70	359.30	8,664.7	-330.9	659.7	-338.9	12.00	12.00	0.00
8,800.0	27.70	359.30	8,757.5	-294.0	659.2	-302.0	12.00	12.00	0.00
8,900.0 8,974.0	39.70 48.58	359.30 359.30	8,840.5 8,893.6	-238.6 -187.1	658.6 657.9	-246.6 -195.1	12.00 12.00	12.00 12.00	0.00 0.00
	watch 17 8 State		0,090.0	-101.1	031.3	-130.1	12.00	12.00	0.00
9,000.0	51.70	359.30	8,910.2	-167.2	657.7	-175.2	12.00	12.00	0.00
9,100.0	63.70	359.30	8,963.6	-82.8	656.7	-90.8	12.00	12.00	0.00
9,200.0	75.70	359.30	8,998.2	10.8	655.5	2.8	12.00	12.00	0.00
9,300.0 9,319.1	87.70 90.00	359.30 359.30	9,012.6 9,013.0	109.6 128.7	654.3 654.1	101.6 120.7	12.00 12.00	12.00 12.00	0.00 0.00
	307.0 hold at 931		3,010.0	120.1	004.1	120.7	12.00	12.00	0.00
9,400.0	90.00	359.30	9,013.0	209.6	653.1	201.6	0.00	0.00	0.00
9,500.0	90.00	359.30	9,013.0	309.6	651.9	301.6	0.00	0.00	0.00
9,600.0	90.00	359.30	9,013.0	409.6	650.7	401.6	0.00	0.00	0.00
9,700.0 9,800.0	90.00 90.00	359.30 359.30	9,013.0 9,013.0	509.6 609.6	649.5 648.3	501.6 601.6	0.00 0.00	0.00 0.00	0.00 0.00
9,900.0	90.00	359.30	9,013.0	709.5	647.0	701.6	0.00	0.00	0.00
10,000.0	90.00	359.30	9,013.0	809.5	645.8	801.6	0.00	0.00	0.00
10,100.0	90.00	359.30	9,013.0	909.5	644.6	901.6	0.00	0.00	0.00
10,200.0	90.00	359.30	9,013.0	1,009.5	643.4	1,001.6	0.00	0.00	0.00
10,300.0 10,400.0	90.00 90.00	359.30 359.30	9,013.0 9,013.0	1,109.5 1,209.5	642.2 641.0	1,101.6 1,201.6	0.00 0.00	0.00 0.00	0.00 0.00
10,500.0	90.00	359.30	9,013.0	1,309.5	639.8	1,301.6	0.00	0.00	0.00
10,600.0	90.00	359.30	9,013.0	1,409.5	638.5	1,401.6	0.00	0.00	0.00
10,700.0	90.00	359.30	9,013.0	1,509.5	637.3	1,501.6	0.00	0.00	0.00
10,800.0 10,900.0	90.00 90.00	359.30 359.30	9,013.0 9,013.0	1,609.5 1,709.5	636.1 634.9	1,601.6 1,701.6	0.00 0.00	0.00 0.00	0.00 0.00
11,000.0	90.00	359.30	9,013.0	1,709.5	633.7	1,701.6	0.00	0.00	0.00
11,100.0	90.00	359.30	9,013.0	1,909.5	632.5	1,901.6	0.00	0.00	0.00
11,200.0	90.00	359.30	9,013.0	2,009.4	631.3	2,001.6	0.00	0.00	0.00
11,300.0	90.00	359.30	9,013.0	2,109.4	630.0	2,101.6	0.00	0.00	0.00
11,400.0 11,500.0	90.00 90.00	359.30 359.30	9,013.0 9,013.0	2,209.4 2,309.4	628.8 627.6	2,201.6 2,301.6	0.00 0.00	0.00 0.00	0.00 0.00
11,600.0	90.00	359.30	9,013.0	2,409.4	626.4	2,401.6	0.00	0.00	0.00
11,700.0	90.00	359.30 359.30	9,013.0	2,409.4 2,509.4	625.2	2,401.6	0.00	0.00	0.00
11,800.0	90.00	359.30	9,013.0	2,609.4	624.0	2,601.6	0.00	0.00	0.00
11,900.0 12,000.0	90.00 90.00	359.30 359.30	9,013.0 9,013.0	2,709.4 2,809.4	622.7 621.5	2,701.6 2,801.6	0.00 0.00	0.00 0.00	0.00 0.00

Database: EDM 5000.16 Single User Db
Company: Avant Operating II, LLC
Project: Lea County, NM (NAD 83)
Site: Moonwatch 17 8 State Com Pad 1

Well: Moonwatch 17 8 State Com #502H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Moonwatch 17 8 State Com #502H

WELL @ 3974.0usft (3974)

WELL @ 3974.0usft (3974) Grid

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)
12,100.0	90.00	359.30	9,013.0	2,909.4	620.3	2,901.6	0.00	0.00	0.00
12,200.0	90.00	359.30	9,013.0	3,009.4	619.1	3,001.6	0.00	0.00	0.00
12,300.0	90.00	359.30	9,013.0	3,109.4	617.9	3,101.6	0.00	0.00	0.00
12,400.0	90.00	359.30	9,013.0	3,209.4	616.7	3,201.6	0.00	0.00	0.00
12,500.0	90.00	359.30	9,013.0	3,309.4	615.5	3,301.6	0.00	0.00	0.00
12,600.0	90.00	359.30	9,013.0	3,409.3	614.2	3,401.6	0.00	0.00	0.00
12,700.0	90.00	359.30	9,013.0	3,509.3	613.0	3,501.6	0.00	0.00	0.00
12,800.0	90.00	359.30	9,013.0	3,609.3	611.8	3,601.6	0.00	0.00	0.00
12,900.0	90.00	359.30	9,013.0	3,709.3	610.6	3,701.6	0.00	0.00	0.00
13,000.0	90.00	359.30	9,013.0	3,809.3	609.4	3,801.6	0.00	0.00	0.00
13,100.0	90.00	359.30	9,013.0	3,909.3	608.2	3,901.6	0.00	0.00	0.00
13,200.0	90.00	359.30	9,013.0	4,009.3	607.0	4,001.6	0.00	0.00	0.00
13,300.0	90.00	359.30	9,013.0	4,109.3	605.7	4,101.6	0.00	0.00	0.00
13,400.0	90.00	359.30	9,013.0	4,209.3	604.5	4,201.6	0.00	0.00	0.00
13,500.0	90.00	359.30	9,013.0	4,309.3	603.3	4,301.6	0.00	0.00	0.00
13,600.0	90.00	359.30	9,013.0	4,409.3	602.1	4,401.6	0.00	0.00	0.00
13,700.0	90.00	359.30	9,013.0	4,509.3	600.9	4,501.6	0.00	0.00	0.00
13,800.0	90.00	359.30	9,013.0	4,609.3	599.7	4,601.6	0.00	0.00	0.00
13,900.0	90.00	359.30	9,013.0	4,709.2	598.5	4,701.6	0.00	0.00	0.00
14,000.0	90.00	359.30	9,013.0	4,809.2	597.2	4,801.6	0.00	0.00	0.00
14,100.0	90.00	359.30	9,013.0	4,909.2	596.0	4,901.6	0.00	0.00	0.00
14,200.0	90.00	359.30	9,013.0	5,009.2	594.8	5,001.6	0.00	0.00	0.00
14,300.0	90.00	359.30	9,013.0	5,109.2	593.6	5,101.6	0.00	0.00	0.00
14,400.0	90.00	359.30	9,013.0	5,209.2	592.4	5,201.6	0.00	0.00	0.00
14,500.0	90.00	359.30	9,013.0	5,309.2	591.2	5,301.6	0.00	0.00	0.00
14,600.0	90.00	359.30	9,013.0	5,409.2	590.0	5,401.6	0.00	0.00	0.00
14,700.0	90.00	359.30	9,013.0	5,509.2	588.7	5,501.6	0.00	0.00	0.00
14,800.0	90.00	359.30	9,013.0	5,609.2	587.5	5,601.6	0.00	0.00	0.00
14,900.0	90.00	359.30	9,013.0	5,709.2	586.3	5,701.6	0.00	0.00	0.00
15,000.0	90.00	359.30	9,013.0	5,809.2	585.1	5,801.6	0.00	0.00	0.00
15,100.0	90.00	359.30	9,013.0	5,909.2	583.9	5,901.6	0.00	0.00	0.00
15,200.0	90.00	359.30	9,013.0	6,009.2	582.7	6,001.6	0.00	0.00	0.00
15,300.0	90.00	359.30	9,013.0	6,109.1	581.4	6,101.6	0.00	0.00	0.00
15,400.0	90.00	359.30	9,013.0	6,209.1	580.2	6,201.6	0.00	0.00	0.00
15,500.0	90.00	359.30	9,013.0	6,309.1	579.0	6,301.6	0.00	0.00	0.00
15,600.0	90.00	359.30	9,013.0	6,409.1	577.8	6,401.6	0.00	0.00	0.00
15,700.0	90.00	359.30	9,013.0	6,509.1	576.6	6,501.6	0.00	0.00	0.00
15,800.0	90.00	359.30	9,013.0	6,609.1	575.4	6,601.6	0.00	0.00	0.00
15,900.0	90.00	359.30	9,013.0	6,709.1	574.2	6,701.6	0.00	0.00	0.00
16,000.0	90.00	359.30	9,013.0	6,809.1	572.9	6,801.6	0.00	0.00	0.00
16,100.0	90.00	359.30	9,013.0	6,909.1	571.7	6,901.6	0.00	0.00	0.00
16,200.0	90.00	359.30	9,013.0	7,009.1	570.5	7,001.6	0.00	0.00	0.00
16,300.0	90.00	359.30	9,013.0	7,109.1	569.3	7,101.6	0.00	0.00	0.00
16,400.0	90.00	359.30	9,013.0	7,109.1	568.1	7,101.6	0.00	0.00	0.00
16,500.0	90.00	359.30	9,013.0	7,209.1	566.9	7,201.6	0.00	0.00	0.00
16,600.0	90.00	359.30	9,013.0	7,409.0	565.7	7,401.6	0.00	0.00	0.00
	90.00	359.30 359.30		7,409.0 7,435.1			0.00		
16,626.1	90.00	JJ9.30	9,013.0	1,435.T	565.3	7,427.7	0.00	0.00	0.00

Design:

Planning Report

EDM 5000.16 Single User Db Database: Company: Avant Operating II, LLC Project: Lea County, NM (NAD 83) Moonwatch 17 8 State Com Pad 1 Site: Well: Moonwatch 17 8 State Com #502H Wellbore:

ОН Plan 0.1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Moonwatch 17 8 State Com #502H WELL @ 3974.0usft (3974) WELL @ 3974.0usft (3974)

Grid

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
LTP/BHL - Moonwatch 1 - plan hits target cent - Point	0.00 er	0.00	9,013.0	7,435.1	565.3	642,016.39	802,951.74	32.762048	-103.482283
FTP - Moonwatch 17 8 S - plan misses target c - Point	0.00 enter by 166	0.00 9usft at 897.	9,013.0 4.0usft MD (-303.7 8893.6 TVD, -	659.9 187.1 N, 657.9	634,277.54 9 E)	803,046.30	32.740776	-103.482178

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,717.4	1,711.0	RUSTLER				
	1,889.1	1,882.0	SOLADO				
	3,139.3	3,127.0	BASE_OF_SALT				
	3,192.5	3,180.0	YATES				
	3,663.5	3,649.0	SVRV				
	4,607.4	4,589.0	QUEEN				
	6,057.4	6,033.0	DELAWARE_SANDS				
	6,217.0	6,192.0	BRUSHY_CANYON				
	6,494.2	6,468.0	BSPG_LIME				
	8,169.1	8,136.0	FBSG_SD				
	8,226.4		SBSG_CARB				
	8,277.5	8,244.0	SBSG_SHALE				
	8,651.0	8,617.0	SBSG_SD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment	
260.9	260.5	-5.5	10.5	KOP - Start 7946.9 hold at 260.9 MD	
8,207.8	8,174.5	-343.2	649.4	Start Drop -2.00	
8,468.6	8,435.0	-348.7	659.9	Start 100.5 hold at 8468.6 MD	
8,569.1	8,535.5	-348.7	659.9	KOP #2 - Start DLS 12.00 TFO 359.30	
9,319.1	9,013.0	128.7	654.1	LP - Start 7307.0 hold at 9319.1 MD	
16,626.1	9,013.0	7,435.1	565.3	TD at 16626.1	

Inten ⁻	t	As Dril	led									
API#												
Ope	rator Nai	me:				Property N	lame					Well Number
Kick C	Off Point	(KOP)										
UL	Section	Township	Range	Lot	Feet	From N	1/S	Feet	Fro	om E/W	County	
Latitu	ıde				Longitu	ıde					NAD	
UL	Section	t (FTP)	Range	Lot	Feet	From N	1/S	Feet	Fro	om E/W	County	
Latitu	ıde				Longitu	ıde					NAD	
Last T UL Latitu	Section	t (LTP) Township	Range	Lot	Feet Longitu	From N/S	Feet		From E/W	Coun	ty	
					Longico					, with		
s this	well the	defining w	vell for th	e Hori	zontal Տլ	pacing Unit?]			
s this	well an	infill well?										
	l is yes p ng Unit.	lease provi	de API if	availal	ole, Ope	rator Name	and v	vell nu	umber fo	r Defini	ng well fo	or Horizontal
API#												
Ope	rator Nai	me:	ı			Property N	lame					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 Opera	ating II, LLC	OGRID: 332947	Date: 09/29/2025
II. Type: ⊠ Original □	Amendment du	ie to 🗆 19.15.27.9.De	(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.
If Other, please describe: _			
III Wall(s). Provide the f	Marying infor	notion for each new	or recompleted well or set of wells proposed to be drilled or proposed to be recompl

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 501H		M-17-T18S-R35E	405FSL/1154FWL	845 BBL/D	1350 MCF/D	6500 BBL/D
Moonwatch 17 8 State Com 502H		M-17-T18S-R35E	405FSL/1214FWL	845 BBL/D	1350 MCF/D	6500 BBL/D
Moonwatch 17 8 State Com 601H		M-17-T18S-R35E	405FSL/1194FWL	1005 BBL/D	1100 MCF/D	7000 BBL/D
Moonwatch 17 8 State Com 831H		M-17-T18S-R35E	405FSL/1174FWL	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

recompleted from a single well	pad of connect	ed to a central del	ivery point.			
Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
		•	Date	Commencement Date	Back Date	Date
Moonwatch 17 8 State Com 501H		02/01/2026	3/18/2026	10/01/2026	11/01/2026	11/01/2026
Moonwatch 17 8 State Com 502H		02/01/2026	3/18/2026	10/01/2026	11/01/2026	11/01/2026
Moonwatch 17 8 State Com 601H		02/01/2026	3/18/2026	10/01/2026	11/01/2026	11/01/2026
Moonwatch 17 8 State Com 831H		02/01/2026	3/18/2026	10/01/2026	11/01/2026	11/01/2026

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

Page 1 of 4

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. \square 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 \square will \square 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 \square does \square does not anticipate that its	s existing well(s) connected to the same segment, or	portion, of the
natural gas gathering system(s) described above will continue to mee	et anticipated increases in line pressure caused by the	new well(s).

$\overline{}$	1 0		1 .		1	•		. 1		1.	
	Attach ()	nerator's	nlan to	manage	nraduction	111 rec	nonce to	the	increased	line	nrecellre
ш	Attach	perator s	pian w	manage	production	111 1 CS	ponse to	unc	mercaseu	IIIIC	pressure

XIV. Confidentiality: \square 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.

(i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

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: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; (g) reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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.

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:

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

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 (l)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.