

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 406066

**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
4. Property Code 337745		3. API Number 30-025-55863
5. Property Name QUAIL 16 STATE COM		6. Well No. 803H

**7. Surface Location**

UL - Lot M	Section 16	Township 20S	Range 34E	Lot Idn	Feet From 329	N/S Line S	Feet From 1038	E/W Line W	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot C	Section 16	Township 20S	Range 34E	Lot Idn C	Feet From 100	N/S Line N	Feet From 2639	E/W Line W	County Lea
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**9. Pool Information**

LEA;PENN (GAS)	80040
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**Additional Well Information**

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3637
16. Multiple N	17. Proposed Depth 17354	18. Formation Cisco	19. Contractor	20. Spud Date 2/15/2026
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	17.5	13.375	54.5	1577	915	0
Int1	12.25	10.75	45.5	5328	1210	0
Int2	9.875	8.625	32	10024	855	0
Int2	9.875	8.625	20	5600	855	0
Int2	9.875	8.625	32	6000	855	0
Prod	7.875	5.5	20	17354	900	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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable.  Signature:	<b>OIL CONSERVATION DIVISION</b>		
	Printed Name: Electronically filed by Sarah Ferreyros	Approved By: Jeffrey Harrison	
	Title: Director of Regulatory	Title: Petroleum Specialist III	
	Email Address: sarah@avantnr.com	Approved Date: 1/28/2026	Expiration Date: 1/28/2028
	Date: 1/7/2026	Phone: 720-854-9020	Conditions of Approval Attached

<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024
		Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

**WELL LOCATION INFORMATION**

API Number <b>30-025-55863</b>	Pool Code <b>80040</b>	Pool Name <b>LEA; PENN (GAS)</b>
Property Code <b>337745</b>	Property Name <b>QUAIL 16 STATE COM</b>	Well Number <b>#803H</b>
OGRID No. <b>332947</b>	Operator Name <b>AVANT OPERATING II, LLC</b>	Ground Level Elevation <b>3637'</b>
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

**Surface Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	16	20 S	34 E		329' FSL	1038' FWL	32.566812°	-103.570490°	LEA

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	16	20 S	34 E		100' FNL	2640' FWL	32.580114°	-103.565298°	LEA

Dedicated Acres <b>320.00</b>	Infill or Defining Well <b>Infill</b>	Defining Well API <b>n/a</b>	Overlapping Spacing Unit (Y/N) <b>No</b>	Consolidation Code <b>n/a</b>
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Order Numbers. <b>Pending</b>	Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	16	20 S	34 E		329' FSL	1038' FWL	32.566812°	-103.570490°	LEA

**First Take Point (FTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	16	20 S	34 E		100' FSL	2640' FWL	32.566173°	-103.565289°	LEA

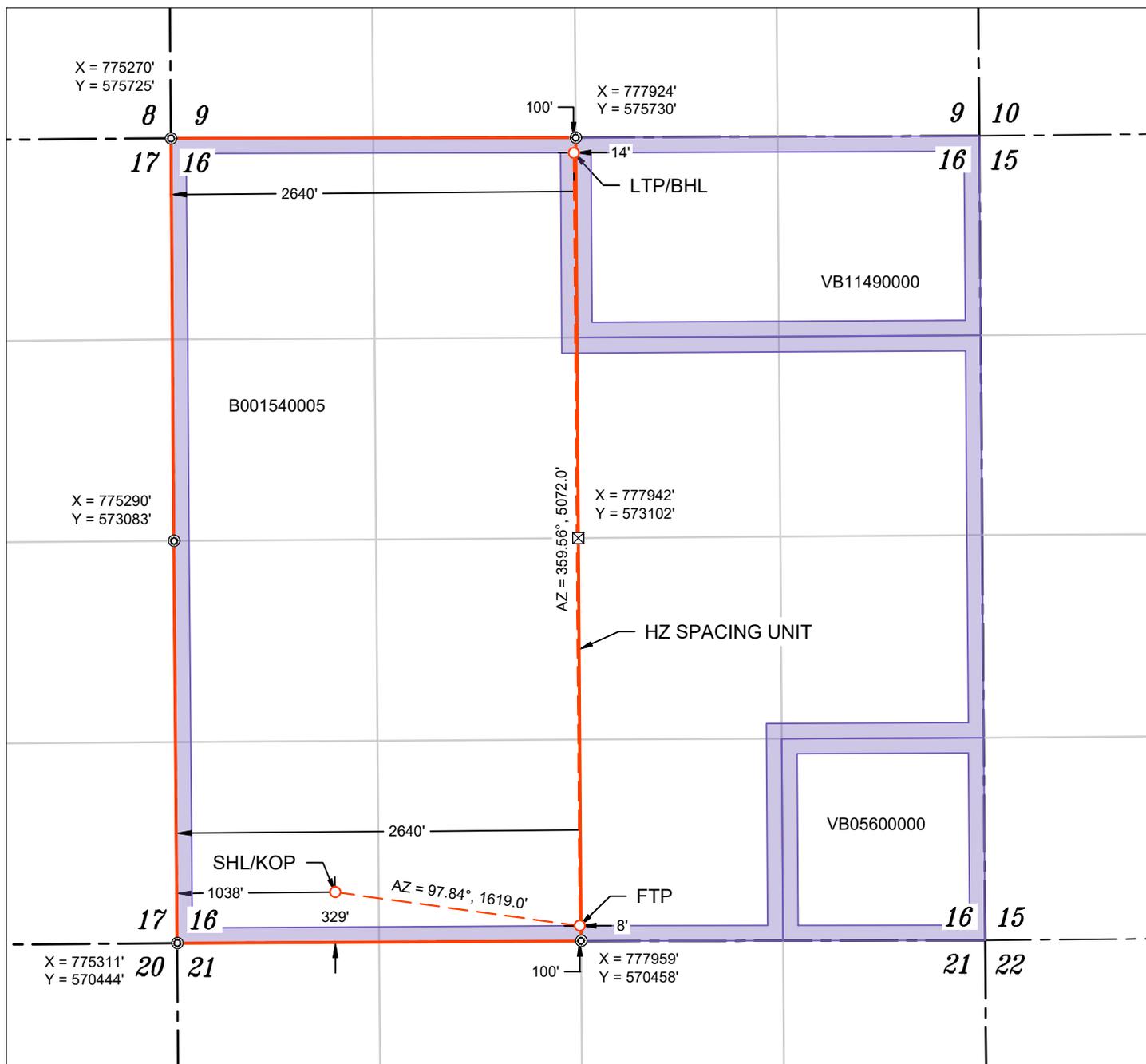
**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	16	20 S	34 E		100' FNL	2640' FWL	32.580114°	-103.565298°	LEA

Unitized Area or Area of Uniform Interest <b>Yes</b>	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: <b>3637'</b>
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<p><b>OPERATOR CERTIFICATIONS</b></p> <p><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></p> <p><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></p> <p style="text-align: right;"> <b>1/5/2026</b></p>	<p><b>SURVEYOR CERTIFICATIONS</b></p> <p><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></p> <div style="text-align: center;">    </div>
Signature <b>Sarah Ferreyros</b>	Signature and Seal of Professional Surveyor <b>23203</b> <b>DECEMBER 18, 2025</b>
Printed Name <b>sarah@avantnr.com</b>	Certificate Number <b>23203</b>
Email Address	Date of Survey <b>DECEMBER 18, 2025</b>

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: QUAIL 16 STATE COM #803H  
 ELEVATION: 3637'

<b>NAD 83 (SHL/KOP) 329' FSL &amp; 1038' FWL</b>
LATITUDE = 32.566812°
LONGITUDE = -103.570490°
<b>NAD 27 (SHL/KOP)</b>
LATITUDE = 32.566692°
LONGITUDE = -103.569999°
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 570778.91' E: 776346.45'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 570717.65' E: 735165.54'

<b>NAD 83 (FTP) 100' FSL &amp; 2640' FWL</b>
LATITUDE = 32.566173°
LONGITUDE = -103.565289°
<b>NAD 27 (FTP)</b>
LATITUDE = 32.566053°
LONGITUDE = -103.564799°
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 570558.16' E: 777950.33'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 570496.92' E: 736769.39'

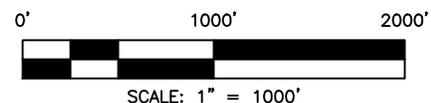
<b>NAD 83 (LTP/BHL) 100' FNL &amp; 2640' FWL</b>
LATITUDE = 32.580114°
LONGITUDE = -103.565298°
<b>NAD 27 (LTP/BHL)</b>
LATITUDE = 32.579994°
LONGITUDE = -103.564807°
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 575630.00' E: 777911.14'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 575568.66' E: 736730.37'

APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP	
B001540005	5071.99'
<b>TOTAL</b>	<b>5071.99'</b>

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

**NOTES**

- 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).
- THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING DECEMBER, 2025. CERTIFICATION OF THIS DOCUMENT IS ONLY TO THE LOCATION OF THIS INFORMATION IN RELATION TO RECORDED MONUMENT OF DEEDS PROVIDED BY THE CLIENT.
- ELEVATIONS MSL, DERIVED FROM G.N.S.S. OBSERVATION AND DERIVED FROM SAID ON-THE-GROUND SURVEY.



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

Form APD Conditions

Permit 406066

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: Avant Operating II, LLC [332947] 1515 Wynkoop Street Denver, CO 80202	API Number: 30-025-55863
	Well: QUAIL 16 STATE COM #803H

OCD Reviewer	Condition
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	Administrative order required for non-standard location prior to production.
jeffrey.harrison	This well is within the Capitan Reef aquifer zone. The first intermediate casing string shall be set and cemented back to surface immediately below the Capitan Reef.
jeffrey.harrison	In Capitan Reef areas if lost circulation (50% or greater) occurs below the base of the salt, the operator shall switch to freshwater mud until the intermediate casing is set..
jeffrey.harrison	This well is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the order.
jeffrey.harrison	Designs must align to one of the six options mandated within R-111-Q. No alterations or modifications are permitted to any of the casing design options mandated within order R-111-Q. If you have any questions, please contact Justin.Wrinkle@emnrd.nm.gov.
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	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.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
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.
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.

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

**WELL DETAILS: Quail 16 State Com #803H**

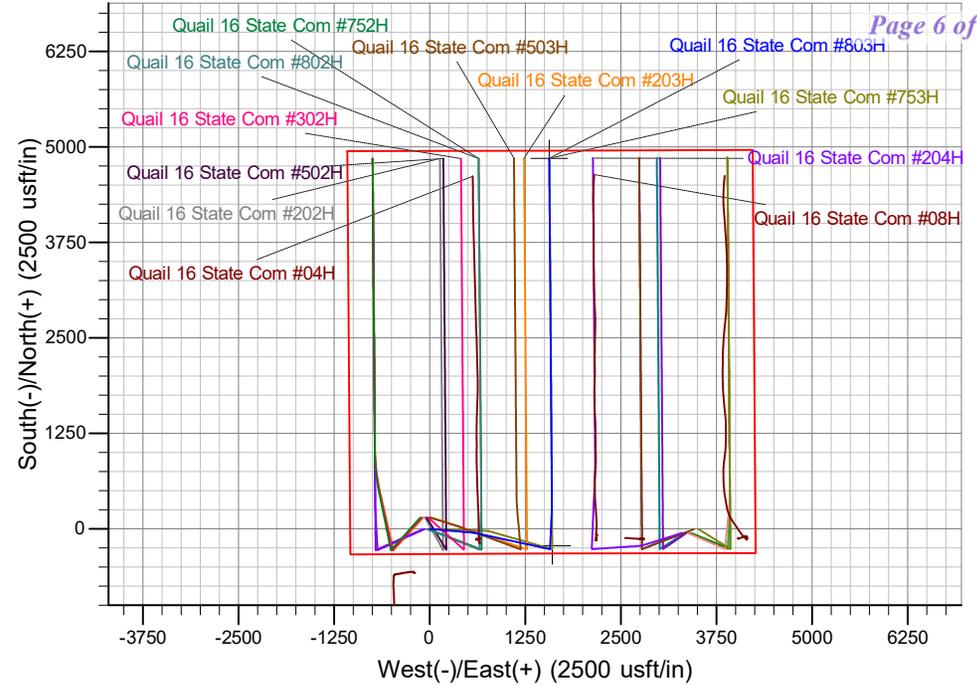
Ground Elev: 3637.0 KB: 3662

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	570778.91	776346.45	32.566812	-103.570490

**PROJECT DETAILS: Lea County, NM (NAD 83)**

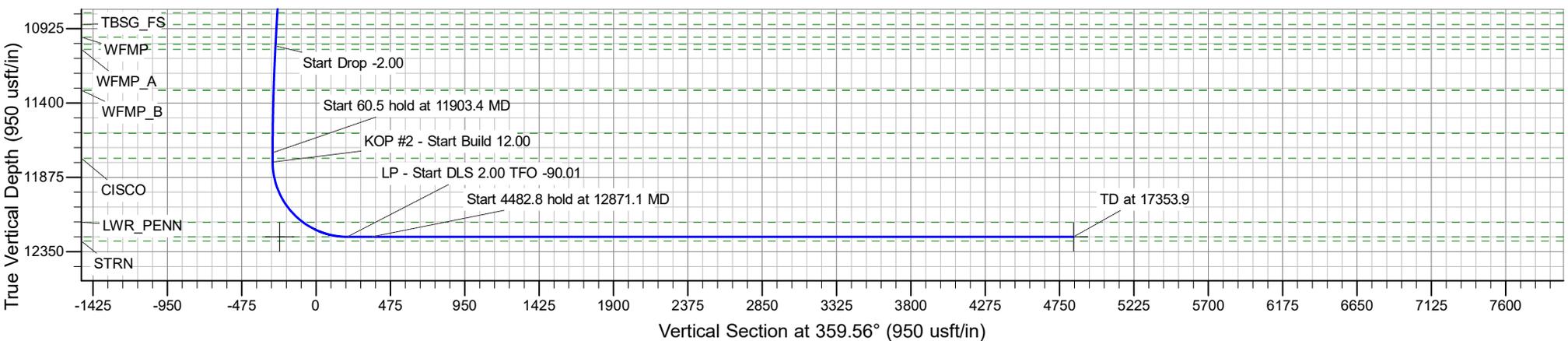
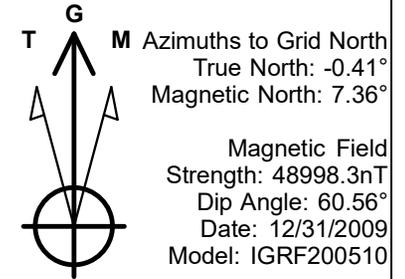
Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: New Mexico Eastern Zone

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	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 2.00
3	5188.5	13.77	95.00	5181.9	-7.2	82.0	2.00	95.00	-7.8	Start 2050.0 hold at 5188.5 MD
4	7238.5	13.77	95.00	7173.0	-49.7	568.1	0.00	0.00	-54.1	Start DLS 2.00 TFO 93.51
5	7324.0	13.77	102.19	7256.1	-52.7	588.2	2.00	93.51	-57.3	Start 3890.9 hold at 7324.0 MD
6	11214.9	13.77	102.19	11035.1	-248.3	1493.4	0.00	0.00	-259.8	Start Drop -2.00
7	11903.4	0.00	0.00	11717.0	-265.7	1573.9	2.00	180.00	-277.8	Start 60.5 hold at 11903.4 MD
8	11963.9	0.00	0.00	11777.5	-265.7	1573.9	0.00	0.00	-277.8	KOP #2 - Start Build 12.00
9	12713.9	90.00	2.70	12255.0	211.2	1596.4	12.00	2.70	199.0	LP - Start DLS 2.00 TFO -90.01
10	12871.1	90.00	359.56	12255.0	368.4	1599.5	2.00	-90.01	356.1	Start 4482.8 hold at 12871.1 MD
11	17353.9	90.00	359.56	12255.0	4851.1	1564.7	0.00	0.00	4838.9	TD at 17353.9



# **Avant Operating II, LLC**

**Lea County, NM (NAD 83)**

**Quail 16 State Com Pad 1**

**Quail 16 State Com #803H**

**OH**

**Plan: Plan 0.1**

## **Standard Planning Report**

**22 December, 2025**

Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Quail 16 State Com #803H
<b>Company:</b>	Avant Operating II, LLC	<b>TVD Reference:</b>	Well @ 3662.0usft (3662)
<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

<b>Project</b>	Lea County, NM (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Quail 16 State Com Pad 1				
<b>Site Position:</b>		<b>Northing:</b>	571,105.87 usft	<b>Latitude:</b>	32.567724
<b>From:</b>	Map	<b>Easting:</b>	775,635.79 usft	<b>Longitude:</b>	-103.572789
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	Quail 16 State Com #803H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	570,778.91 usft	<b>Latitude:</b>	32.566812
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	776,346.45 usft	<b>Longitude:</b>	-103.570490
<b>Position Uncertainty</b>	0.0 usft		<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,637.0 usft
<b>Grid Convergence:</b>	0.41 °					

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	7.77	60.56	48,998.28776055

<b>Design</b>	Plan 0.1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	359.56

<b>Plan Survey Tool Program</b>	<b>Date</b>	12/22/2025		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	17,353.9 Plan 0.1 (OH)	B001Mb_MWD+HRGM OWSG MWD + HRGM	

Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Quail 16 State Com #803H
<b>Company:</b>	Avant Operating II, LLC	<b>TVD Reference:</b>	Well @ 3662.0usft (3662)
<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,188.5	13.77	95.00	5,181.9	-7.2	82.0	2.00	2.00	0.00	95.00	
7,238.5	13.77	95.00	7,173.0	-49.7	568.1	0.00	0.00	0.00	0.00	
7,324.0	13.77	102.19	7,256.1	-52.7	588.2	2.00	0.00	8.41	93.51	
11,214.9	13.77	102.19	11,035.1	-248.3	1,493.4	0.00	0.00	0.00	0.00	
11,903.4	0.00	0.00	11,717.0	-265.7	1,573.9	2.00	-2.00	0.00	180.00	
11,963.9	0.00	0.00	11,777.5	-265.7	1,573.9	0.00	0.00	0.00	0.00	
12,713.9	90.00	2.70	12,255.0	211.2	1,596.4	12.00	12.00	0.00	2.70	
12,871.1	90.00	359.56	12,255.0	368.4	1,599.5	2.00	0.00	-2.00	-90.01	
17,353.9	90.00	359.56	12,255.0	4,851.1	1,564.7	0.00	0.00	0.00	0.00	Quail 16 State Com #

Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Quail 16 State Com #803H
<b>Company:</b>	Avant Operating II, LLC	<b>TVD Reference:</b>	Well @ 3662.0usft (3662)
<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,552.0	0.00	0.00	1,552.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>RUSTLER</b>									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,881.0	0.00	0.00	1,881.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SOLADO</b>									
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,308.0	0.00	0.00	3,308.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>BASE_OF_SALT</b>									
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,410.0	0.00	0.00	3,410.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>YATES</b>									
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,844.0	0.00	0.00	3,844.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>SVRV</b>									
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,012.0	0.00	0.00	4,012.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>CAPITAN_REEF</b>									

Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Quail 16 State Com #803H
<b>Company:</b>	Avant Operating II, LLC	<b>TVD Reference:</b>	Well @ 3662.0usft (3662)
<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
<b>KOP - Start Build 2.00</b>										
4,600.0	2.00	95.00	4,600.0	-0.2	1.7	-0.2	2.00	2.00	2.00	0.00
4,700.0	4.00	95.00	4,699.8	-0.6	7.0	-0.7	2.00	2.00	2.00	0.00
4,800.0	6.00	95.00	4,799.5	-1.4	15.6	-1.5	2.00	2.00	2.00	0.00
4,900.0	8.00	95.00	4,898.7	-2.4	27.8	-2.6	2.00	2.00	2.00	0.00
5,000.0	10.00	95.00	4,997.5	-3.8	43.4	-4.1	2.00	2.00	2.00	0.00
5,100.0	12.00	95.00	5,095.6	-5.5	62.4	-5.9	2.00	2.00	2.00	0.00
5,188.5	13.77	95.00	5,181.9	-7.2	82.0	-7.8	2.00	2.00	2.00	0.00
<b>Start 2050.0 hold at 5188.5 MD</b>										
5,200.0	13.77	95.00	5,193.1	-7.4	84.8	-8.1	0.00	0.00	0.00	0.00
5,278.2	13.77	95.00	5,269.0	-9.0	103.3	-9.8	0.00	0.00	0.00	0.00
<b>CPTN_REEF_BASE</b>										
5,300.0	13.77	95.00	5,290.2	-9.5	108.5	-10.3	0.00	0.00	0.00	0.00
5,400.0	13.77	95.00	5,387.3	-11.6	132.2	-12.6	0.00	0.00	0.00	0.00
5,500.0	13.77	95.00	5,484.4	-13.6	155.9	-14.8	0.00	0.00	0.00	0.00
5,576.8	13.77	95.00	5,559.0	-15.2	174.1	-16.6	0.00	0.00	0.00	0.00
<b>CHERRY_CNYN</b>										
5,600.0	13.77	95.00	5,581.6	-15.7	179.6	-17.1	0.00	0.00	0.00	0.00
5,700.0	13.77	95.00	5,678.7	-17.8	203.3	-19.3	0.00	0.00	0.00	0.00
5,800.0	13.77	95.00	5,775.8	-19.9	227.0	-21.6	0.00	0.00	0.00	0.00
5,900.0	13.77	95.00	5,872.9	-21.9	250.7	-23.9	0.00	0.00	0.00	0.00
6,000.0	13.77	95.00	5,970.1	-24.0	274.4	-26.1	0.00	0.00	0.00	0.00
6,100.0	13.77	95.00	6,067.2	-26.1	298.2	-28.4	0.00	0.00	0.00	0.00
6,200.0	13.77	95.00	6,164.3	-28.2	321.9	-30.6	0.00	0.00	0.00	0.00
6,300.0	13.77	95.00	6,261.4	-30.2	345.6	-32.9	0.00	0.00	0.00	0.00
6,400.0	13.77	95.00	6,358.6	-32.3	369.3	-35.1	0.00	0.00	0.00	0.00
6,500.0	13.77	95.00	6,455.7	-34.4	393.0	-37.4	0.00	0.00	0.00	0.00
6,600.0	13.77	95.00	6,552.8	-36.5	416.7	-39.7	0.00	0.00	0.00	0.00
6,669.2	13.77	95.00	6,620.0	-37.9	433.1	-41.2	0.00	0.00	0.00	0.00
<b>BRUSHY_CANYON</b>										
6,700.0	13.77	95.00	6,649.9	-38.5	440.4	-41.9	0.00	0.00	0.00	0.00
6,800.0	13.77	95.00	6,747.1	-40.6	464.1	-44.2	0.00	0.00	0.00	0.00
6,900.0	13.77	95.00	6,844.2	-42.7	487.9	-46.4	0.00	0.00	0.00	0.00
7,000.0	13.77	95.00	6,941.3	-44.8	511.6	-48.7	0.00	0.00	0.00	0.00
7,100.0	13.77	95.00	7,038.5	-46.8	535.3	-50.9	0.00	0.00	0.00	0.00
7,200.0	13.77	95.00	7,135.6	-48.9	559.0	-53.2	0.00	0.00	0.00	0.00
7,238.5	13.77	95.00	7,173.0	-49.7	568.1	-54.1	0.00	0.00	0.00	0.00
<b>Start DLS 2.00 TFO 93.51</b>										
7,300.0	13.75	100.17	7,232.7	-51.6	582.6	-56.1	2.00	-0.03	8.41	
7,324.0	13.77	102.19	7,256.1	-52.7	588.2	-57.3	2.00	0.09	8.40	
<b>Start 3890.9 hold at 7324.0 MD</b>										
7,400.0	13.77	102.19	7,329.8	-56.6	605.9	-61.2	0.00	0.00	0.00	0.00
7,500.0	13.77	102.19	7,427.0	-61.6	629.1	-66.4	0.00	0.00	0.00	0.00
7,600.0	13.77	102.19	7,524.1	-66.6	652.4	-71.6	0.00	0.00	0.00	0.00
7,700.0	13.77	102.19	7,621.2	-71.6	675.7	-76.8	0.00	0.00	0.00	0.00
7,800.0	13.77	102.19	7,718.3	-76.7	698.9	-82.0	0.00	0.00	0.00	0.00
7,900.0	13.77	102.19	7,815.5	-81.7	722.2	-87.2	0.00	0.00	0.00	0.00
8,000.0	13.77	102.19	7,912.6	-86.7	745.5	-92.4	0.00	0.00	0.00	0.00

Planning Report

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<b>Company:</b>	Avant Operating II, LLC	<b>TVD Reference:</b>	Well @ 3662.0usft (3662)
<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)	
8,100.0	13.77	102.19	8,009.7	-91.7	768.7	-97.6	0.00	0.00	0.00	
8,200.0	13.77	102.19	8,106.8	-96.8	792.0	-102.8	0.00	0.00	0.00	
8,300.0	13.77	102.19	8,204.0	-101.8	815.3	-108.1	0.00	0.00	0.00	
8,400.0	13.77	102.19	8,301.1	-106.8	838.5	-113.3	0.00	0.00	0.00	
8,457.6	13.77	102.19	8,357.0	-109.7	851.9	-116.3	0.00	0.00	0.00	
<b>BSPG_LIME</b>										
8,500.0	13.77	102.19	8,398.2	-111.8	861.8	-118.5	0.00	0.00	0.00	
8,600.0	13.77	102.19	8,495.3	-116.9	885.1	-123.7	0.00	0.00	0.00	
8,700.0	13.77	102.19	8,592.5	-121.9	908.3	-128.9	0.00	0.00	0.00	
8,800.0	13.77	102.19	8,689.6	-126.9	931.6	-134.1	0.00	0.00	0.00	
8,876.6	13.77	102.19	8,764.0	-130.8	949.4	-138.1	0.00	0.00	0.00	
<b>AVALON_B</b>										
8,900.0	13.77	102.19	8,786.7	-132.0	954.9	-139.3	0.00	0.00	0.00	
9,000.0	13.77	102.19	8,883.9	-137.0	978.1	-144.5	0.00	0.00	0.00	
9,092.8	13.77	102.19	8,974.0	-141.6	999.7	-149.3	0.00	0.00	0.00	
<b>200S</b>										
9,100.0	13.77	102.19	8,981.0	-142.0	1,001.4	-149.7	0.00	0.00	0.00	
9,200.0	13.77	102.19	9,078.1	-147.0	1,024.7	-154.9	0.00	0.00	0.00	
9,300.0	13.77	102.19	9,175.2	-152.1	1,047.9	-160.1	0.00	0.00	0.00	
9,400.0	13.77	102.19	9,272.4	-157.1	1,071.2	-165.3	0.00	0.00	0.00	
9,500.0	13.77	102.19	9,369.5	-162.1	1,094.4	-170.5	0.00	0.00	0.00	
9,600.0	13.77	102.19	9,466.6	-167.1	1,117.7	-175.7	0.00	0.00	0.00	
9,624.1	13.77	102.19	9,490.0	-168.4	1,123.3	-177.0	0.00	0.00	0.00	
<b>FBSG_SD</b>										
9,700.0	13.77	102.19	9,563.7	-172.2	1,141.0	-180.9	0.00	0.00	0.00	
9,739.4	13.77	102.19	9,602.0	-174.1	1,150.1	-183.0	0.00	0.00	0.00	
<b>300'S</b>										
9,800.0	13.77	102.19	9,660.9	-177.2	1,164.2	-186.1	0.00	0.00	0.00	
9,900.0	13.77	102.19	9,758.0	-182.2	1,187.5	-191.3	0.00	0.00	0.00	
9,923.7	13.77	102.19	9,781.0	-183.4	1,193.0	-192.6	0.00	0.00	0.00	
<b>SBSG_SHALE</b>										
9,938.1	13.77	102.19	9,795.0	-184.1	1,196.4	-193.3	0.00	0.00	0.00	
<b>SBSG_CARB</b>										
10,000.0	13.77	102.19	9,855.1	-187.2	1,210.8	-196.5	0.00	0.00	0.00	
10,100.0	13.77	102.19	9,952.2	-192.3	1,234.0	-201.7	0.00	0.00	0.00	
10,169.8	13.77	102.19	10,020.0	-195.8	1,250.3	-205.4	0.00	0.00	0.00	
<b>SBSG_SD</b>										
10,200.0	13.77	102.19	10,049.4	-197.3	1,257.3	-206.9	0.00	0.00	0.00	
10,218.2	13.77	102.19	10,067.0	-198.2	1,261.5	-207.9	0.00	0.00	0.00	
<b>500S_UPPER</b>										
10,300.0	13.77	102.19	10,146.5	-202.3	1,280.6	-212.2	0.00	0.00	0.00	
10,400.0	13.77	102.19	10,243.6	-207.4	1,303.8	-217.4	0.00	0.00	0.00	
10,441.6	13.77	102.19	10,284.0	-209.4	1,313.5	-219.5	0.00	0.00	0.00	
<b>SBSG_SD_LWR</b>										
10,500.0	13.77	102.19	10,340.7	-212.4	1,327.1	-222.6	0.00	0.00	0.00	
10,542.5	13.77	102.19	10,382.0	-214.5	1,337.0	-224.8	0.00	0.00	0.00	
<b>500S</b>										
10,600.0	13.77	102.19	10,437.9	-217.4	1,350.4	-227.8	0.00	0.00	0.00	
10,700.0	13.77	102.19	10,535.0	-222.4	1,373.6	-233.0	0.00	0.00	0.00	
10,711.3	13.77	102.19	10,546.0	-223.0	1,376.3	-233.6	0.00	0.00	0.00	
<b>TBSG_CARB</b>										
10,800.0	13.77	102.19	10,632.1	-227.5	1,396.9	-238.2	0.00	0.00	0.00	

Planning Report

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<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,889.4	13.77	102.19	10,719.0	-232.0	1,417.7	-242.8	0.00	0.00	0.00
<b>TBSG_SD</b>									
10,900.0	13.77	102.19	10,729.2	-232.5	1,420.2	-243.4	0.00	0.00	0.00
10,996.5	13.77	102.19	10,823.0	-237.3	1,442.6	-248.4	0.00	0.00	0.00
<b>TBSG_MS</b>									
11,000.0	13.77	102.19	10,826.4	-237.5	1,443.4	-248.6	0.00	0.00	0.00
11,073.7	13.77	102.19	10,898.0	-241.2	1,460.6	-252.4	0.00	0.00	0.00
<b>TBSG_FS</b>									
11,100.0	13.77	102.19	10,923.5	-242.5	1,466.7	-253.8	0.00	0.00	0.00
11,157.1	13.77	102.19	10,979.0	-245.4	1,480.0	-256.8	0.00	0.00	0.00
<b>WFMP</b>									
11,200.0	13.77	102.19	11,020.6	-247.6	1,490.0	-259.0	0.00	0.00	0.00
11,205.5	13.77	102.19	11,026.0	-247.8	1,491.2	-259.3	0.00	0.00	0.00
<b>WFMP_CL_Y</b>									
11,214.9	13.77	102.19	11,035.1	-248.3	1,493.4	-259.8	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
11,237.4	13.32	102.19	11,057.0	-249.4	1,498.6	-260.9	2.00	-2.00	0.00
<b>WFMP_A</b>									
11,300.0	12.07	102.19	11,118.0	-252.3	1,512.0	-263.9	2.00	-2.00	0.00
11,400.0	10.07	102.19	11,216.2	-256.4	1,530.8	-268.1	2.00	-2.00	0.00
11,500.0	8.07	102.19	11,314.9	-259.7	1,546.2	-271.6	2.00	-2.00	0.00
11,503.1	8.01	102.19	11,318.0	-259.8	1,546.6	-271.7	2.00	-2.00	0.00
<b>WFMP_B</b>									
11,504.1	7.99	102.19	11,319.0	-259.8	1,546.7	-271.7	2.00	-2.00	0.00
<b>WFMP_D_CARB</b>									
11,600.0	6.07	102.19	11,414.2	-262.3	1,558.2	-274.3	2.00	-2.00	0.00
11,700.0	4.07	102.19	11,513.8	-264.2	1,566.8	-276.2	2.00	-2.00	0.00
11,779.4	2.48	102.19	11,593.0	-265.1	1,571.3	-277.2	2.00	-2.00	0.00
<b>750S</b>									
11,800.0	2.07	102.19	11,613.6	-265.3	1,572.1	-277.4	2.00	-2.00	0.00
11,900.0	0.07	102.19	11,713.6	-265.7	1,573.9	-277.8	2.00	-2.00	0.00
11,903.4	0.00	0.00	11,717.0	-265.7	1,573.9	-277.8	2.00	-2.00	0.00
<b>Start 60.5 hold at 11903.4 MD</b>									
11,939.4	0.00	0.00	11,753.0	-265.7	1,573.9	-277.8	0.00	0.00	0.00
<b>CISCO</b>									
11,963.9	0.00	0.00	11,777.5	-265.7	1,573.9	-277.8	0.00	0.00	0.00
<b>KOP #2 - Start Build 12.00</b>									
12,000.0	4.33	2.70	11,813.6	-264.3	1,574.0	-276.4	12.00	12.00	0.00
12,100.0	16.33	2.70	11,911.8	-246.5	1,574.8	-258.5	12.00	12.00	0.00
12,200.0	28.33	2.70	12,004.1	-208.6	1,576.6	-220.7	12.00	12.00	0.00
12,300.0	40.33	2.70	12,086.5	-152.3	1,579.2	-164.5	12.00	12.00	0.00
12,367.9	48.48	2.70	12,135.0	-104.9	1,581.5	-117.1	12.00	12.00	0.00
<b>Quail 16 State Com #803H FTP</b>									
12,400.0	52.33	2.70	12,155.4	-80.2	1,582.6	-92.4	12.00	12.00	0.00
12,410.9	53.64	2.70	12,162.0	-71.5	1,583.1	-83.7	12.00	12.00	0.00
<b>LWR_PENN</b>									
12,500.0	64.33	2.70	12,207.8	4.6	1,586.6	-7.5	12.00	12.00	0.00
12,600.0	76.33	2.70	12,241.4	98.5	1,591.1	86.3	12.00	12.00	0.00
12,700.0	88.33	2.70	12,254.8	197.3	1,595.7	185.1	12.00	12.00	0.00
12,713.9	90.00	2.70	12,255.0	211.2	1,596.4	199.0	12.00	12.00	0.00
<b>LP - Start DLS 2.00 TFO -90.01 - 800S</b>									
12,800.0	90.00	0.98	12,255.0	297.3	1,599.2	285.0	2.00	0.00	-2.00

Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Quail 16 State Com #803H
<b>Company:</b>	Avant Operating II, LLC	<b>TVD Reference:</b>	Well @ 3662.0usft (3662)
<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
12,871.1	90.00	359.56	12,255.0	368.4	1,599.5	356.1	2.00	0.00	-2.00
<b>Start 4482.8 hold at 12871.1 MD</b>									
12,900.0	90.00	359.56	12,255.0	397.3	1,599.3	385.0	0.00	0.00	0.00
13,000.0	90.00	359.56	12,255.0	497.3	1,598.5	485.0	0.00	0.00	0.00
13,100.0	90.00	359.56	12,255.0	597.3	1,597.7	585.0	0.00	0.00	0.00
13,200.0	90.00	359.56	12,255.0	697.3	1,596.9	685.0	0.00	0.00	0.00
13,300.0	90.00	359.56	12,255.0	797.3	1,596.2	785.0	0.00	0.00	0.00
13,400.0	90.00	359.56	12,255.0	897.3	1,595.4	885.0	0.00	0.00	0.00
13,500.0	90.00	359.56	12,255.0	997.3	1,594.6	985.0	0.00	0.00	0.00
13,600.0	90.00	359.56	12,255.0	1,097.3	1,593.8	1,085.0	0.00	0.00	0.00
13,700.0	90.00	359.56	12,255.0	1,197.3	1,593.1	1,185.0	0.00	0.00	0.00
13,800.0	90.00	359.56	12,255.0	1,297.2	1,592.3	1,285.0	0.00	0.00	0.00
13,900.0	90.00	359.56	12,255.0	1,397.2	1,591.5	1,385.0	0.00	0.00	0.00
14,000.0	90.00	359.56	12,255.0	1,497.2	1,590.7	1,485.0	0.00	0.00	0.00
14,100.0	90.00	359.56	12,255.0	1,597.2	1,589.9	1,585.0	0.00	0.00	0.00
14,200.0	90.00	359.56	12,255.0	1,697.2	1,589.2	1,685.0	0.00	0.00	0.00
14,300.0	90.00	359.56	12,255.0	1,797.2	1,588.4	1,785.0	0.00	0.00	0.00
14,400.0	90.00	359.56	12,255.0	1,897.2	1,587.6	1,885.0	0.00	0.00	0.00
14,500.0	90.00	359.56	12,255.0	1,997.2	1,586.8	1,985.0	0.00	0.00	0.00
14,600.0	90.00	359.56	12,255.0	2,097.2	1,586.1	2,085.0	0.00	0.00	0.00
14,700.0	90.00	359.56	12,255.0	2,197.2	1,585.3	2,185.0	0.00	0.00	0.00
14,800.0	90.00	359.56	12,255.0	2,297.2	1,584.5	2,285.0	0.00	0.00	0.00
14,900.0	90.00	359.56	12,255.0	2,397.2	1,583.7	2,385.0	0.00	0.00	0.00
15,000.0	90.00	359.56	12,255.0	2,497.2	1,583.0	2,485.0	0.00	0.00	0.00
15,100.0	90.00	359.56	12,255.0	2,597.2	1,582.2	2,585.0	0.00	0.00	0.00
15,200.0	90.00	359.56	12,255.0	2,697.2	1,581.4	2,685.0	0.00	0.00	0.00
15,300.0	90.00	359.56	12,255.0	2,797.2	1,580.6	2,785.0	0.00	0.00	0.00
15,400.0	90.00	359.56	12,255.0	2,897.2	1,579.9	2,885.0	0.00	0.00	0.00
15,500.0	90.00	359.56	12,255.0	2,997.2	1,579.1	2,985.0	0.00	0.00	0.00
15,600.0	90.00	359.56	12,255.0	3,097.2	1,578.3	3,085.0	0.00	0.00	0.00
15,700.0	90.00	359.56	12,255.0	3,197.2	1,577.5	3,185.0	0.00	0.00	0.00
15,800.0	90.00	359.56	12,255.0	3,297.2	1,576.8	3,285.0	0.00	0.00	0.00
15,900.0	90.00	359.56	12,255.0	3,397.2	1,576.0	3,385.0	0.00	0.00	0.00
16,000.0	90.00	359.56	12,255.0	3,497.2	1,575.2	3,485.0	0.00	0.00	0.00
16,100.0	90.00	359.56	12,255.0	3,597.2	1,574.4	3,585.0	0.00	0.00	0.00
16,200.0	90.00	359.56	12,255.0	3,697.2	1,573.6	3,685.0	0.00	0.00	0.00
16,300.0	90.00	359.56	12,255.0	3,797.2	1,572.9	3,785.0	0.00	0.00	0.00
16,400.0	90.00	359.56	12,255.0	3,897.2	1,572.1	3,885.0	0.00	0.00	0.00
16,500.0	90.00	359.56	12,255.0	3,997.2	1,571.3	3,985.0	0.00	0.00	0.00
16,600.0	90.00	359.56	12,255.0	4,097.2	1,570.5	4,085.0	0.00	0.00	0.00
16,700.0	90.00	359.56	12,255.0	4,197.2	1,569.8	4,185.0	0.00	0.00	0.00
16,800.0	90.00	359.56	12,255.0	4,297.2	1,569.0	4,285.0	0.00	0.00	0.00
16,900.0	90.00	359.56	12,255.0	4,397.2	1,568.2	4,385.0	0.00	0.00	0.00
17,000.0	90.00	359.56	12,255.0	4,497.2	1,567.4	4,485.0	0.00	0.00	0.00
17,100.0	90.00	359.56	12,255.0	4,597.1	1,566.7	4,585.0	0.00	0.00	0.00
17,200.0	90.00	359.56	12,255.0	4,697.1	1,565.9	4,685.0	0.00	0.00	0.00
17,300.0	90.00	359.56	12,255.0	4,797.1	1,565.1	4,785.0	0.00	0.00	0.00
17,353.9	90.00	359.56	12,255.0	4,851.1	1,564.7	4,838.9	0.00	0.00	0.00
<b>TD at 17353.9 - Quail 16 State Com #803H LTP/BHL</b>									

Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Quail 16 State Com #803H
<b>Company:</b>	Avant Operating II, LLC	<b>TVD Reference:</b>	Well @ 3662.0usft (3662)
<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Quail 16 State Com #80: - plan hits target center - Point	0.00	0.00	12,255.0	4,851.1	1,564.7	575,630.00	777,911.14	32.580114	-103.565298
Quail 16 State Com #80: - plan misses target center by 168.3usft at 12367.9usft MD (12135.0 TVD, -104.9 N, 1581.5 E) - Point	0.00	0.00	12,255.0	-220.7	1,603.9	570,558.16	777,950.33	32.566173	-103.565290

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,552.0	1,552.0	RUSTLER				
1,881.0	1,881.0	SOLADO				
3,308.0	3,308.0	BASE_OF_SALT				
3,410.0	3,410.0	YATES				
3,844.0	3,844.0	SVRV				
4,012.0	4,012.0	CAPITAN_REEF				
5,278.2	5,269.0	CPTN_REEF_BASE				
5,576.8	5,559.0	CHERRY_CNYN				
6,669.2	6,620.0	BRUSHY_CANYON				
8,457.6	8,357.0	BSPG_LIME				
8,876.6	8,764.0	AVALON_B				
9,092.8	8,974.0	200S				
9,624.1	9,490.0	FBSG_SD				
9,739.4	9,602.0	300'S				
9,923.7	9,781.0	SBSG_SHALE				
9,938.1	9,795.0	SBSG_CARB				
10,169.8	10,020.0	SBSG_SD				
10,218.2	10,067.0	500S_UPPER				
10,441.6	10,284.0	SBSG_SD_LWR				
10,542.5	10,382.0	500S				
10,711.3	10,546.0	TBSG_CARB				
10,889.4	10,719.0	TBSG_SD				
10,996.5	10,823.0	TBSG_MS				
11,073.7	10,898.0	TBSG_FS				
11,157.1	10,979.0	WFMP				
11,205.5	11,026.0	WFMP_CL_Y				
11,237.4	11,057.0	WFMP_A				
11,503.1	11,318.0	WFMP_B				
11,504.1	11,319.0	WFMP_D_CARB				
11,779.4	11,593.0	750S				
11,939.4	11,753.0	CISCO				
12,410.9	12,162.0	LWR_PENN				
12,713.9	12,255.0	800S				

Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Quail 16 State Com #803H
<b>Company:</b>	Avant Operating II, LLC	<b>TVD Reference:</b>	Well @ 3662.0usft (3662)
<b>Project:</b>	Lea County, NM (NAD 83)	<b>MD Reference:</b>	Well @ 3662.0usft (3662)
<b>Site:</b>	Quail 16 State Com Pad 1	<b>North Reference:</b>	Grid
<b>Well:</b>	Quail 16 State Com #803H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 0.1		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,500.0	4,500.0	0.0	0.0	KOP - Start Build 2.00	
5,188.5	5,181.9	-7.2	82.0	Start 2050.0 hold at 5188.5 MD	
7,238.5	7,173.0	-49.7	568.1	Start DLS 2.00 TFO 93.51	
7,324.0	7,256.1	-52.7	588.2	Start 3890.9 hold at 7324.0 MD	
11,214.9	11,035.1	-248.3	1,493.4	Start Drop -2.00	
11,903.4	11,717.0	-265.7	1,573.9	Start 60.5 hold at 11903.4 MD	
11,963.9	11,777.5	-265.7	1,573.9	KOP #2 - Start Build 12.00	
12,713.9	12,255.0	211.2	1,596.4	LP - Start DLS 2.00 TFO -90.01	
12,871.1	12,255.0	368.4	1,599.5	Start 4482.8 hold at 12871.1 MD	
17,353.9	12,255.0	4,851.1	1,564.7	TD at 17353.9	

API: 0  
REGULATORY: NM State  
PERMIT # 0  
RIG: 0  
KB: 26.5  
GL: 3637



# Quail 16 State Com #803H

## Wolfcamp

Lea County, NM

Sec. 16, T-20S, R-34E; 329 FSL, 1038 FWL

SHL:

Lat: 32.566812, Long: -103.57049 (NAD83)

AFE:

HOLE SIZE	MD	FORMATION	TVD	MUD	CASING	CEMENT	SPECIAL INSTRUCTIONS
17.5"	120	20" Conductor	120	SPUD MW	13 3/8 "	LEAD: 12.8 PPG Top of Lead: 0	Circ cmt to surface is a regulatory requirement  Casing must be set 25' into the Rustler  MUD: Fresh water only
	1,552	Rustler	1,552	8.4 ppg Fresh TD MW	54.5# J-55 BTC +/- 21 Bowsprings 1 joint shoe track	50% Excess TAIL: 14.8 PPG Top of Tail: 1261.6' 20% Excess	
	1,577	SURF CSG PT	1,577				
12.25"	1,881	Solado	1,881	DRLOUT MW	10 3/4 "	2 STAGE CEMENT	Circ cmt to surface is a regulatory requirement
	3,410	Yates	3,410	10.0 ppg	45.5# J-55 BTC-SCC	1st STAGE LEAD: 12.5 PPG Top of Lead: 0' 20% excess TAIL: 14.5 PPG Top of Tail: 4262' 20% Excess	
	3,800	DV TOOL & PACKER	3,800				
	4,012	Capitan Reef	4,012				
	5,278	Base of Capitan	5,269	TD MW	+/- 25 Bowsprings 1 joint shoe track	2nd STAGE LEAD: 12.5 PPG Top of Lead: 0' 20% Excess TAIL: 14.2 PPG Top of Tail: 3400' no excess	
9.875"	5,577	Cherry Canyon	5,559	DRILLOUT MW	SPLIT STRING 8 5/8 "	LEAD: 12.5 PPG Top of Lead: 0' 20% Excess TAIL: 14.2 PPG Top of Tail: 4262' 20% Excess	Pump stage 1 as designed. If cement is not circulated to surface, shift DV tool and pump stage 2. CBL required if cement is not circulated off DV tool during stage 2 job.  Alternate Drift of 7-7/8"
	6,669	Brushy Canyon	6,620	8.4 ppg	32# L-80 HC BK 5600' - 6000' (10 joints) R-111-Q FIGURE F		
	8,458	Bone Spring	8,357	Cut Brine	32# P-110 HC BK 0' - 5600' - 6000' - 10024'		
	9,624	1st BS Sand	9,490				
	9,924	2nd BS Shale	9,781	TD MW	+/- 31 Bowsprings 1 joint shoe track		
	10,024	INTRM2 CSG PT	9,881	8.4 ppg			
VERT 7.875"	10,889	3BS Sand	10,719	DRLOUT MW	5 1/2 "	LEAD: 10.7 PPG Top of Lead: 9524' No Excess TAIL: 14.8 PPG Top of Tail: 11964' (KOP) No Excess	Annular Capacity above top of lead: 301 bbls  +/- 94 Bowsprings +/- 26 Doublebows +/- 414 Solid Bodies
	11,157	Wolfcamp	10,979	Cut Brine KOP MW 9.2 ppg	20# P-110 HC GBCD 0' - TD	R-111-Q FIGURE F	
CRV 7.875"	11,964	KOP	11,778	OBM EOC MW 9.2 ppg			17,354 MD
LAT 7.875"	12,714	EOC	12,255				4,839 VS
							12,255 TVD
DIRECTIONS TO LOCATION: EOC VS = 199'    Lat. Azi = VS Azi. = 359.56°    Est BHST = 188°F, Est BHCT = 171°F							BHL: 100 FNL, 2640 FWL
							Expected BH Pressure: 5637

**PRELIMINARY**

Drilling Engineer: Ryan Harris

0

DATE: 12/22/2025

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
Quail 16 State Com 201H		M-16-T20S-R34E	480FSL/919FWL	1200 BBL/D	3600 MCF/D	6000 BBL/D
Quail 16 State Com 202H		M-16-T20S-R34E	479FSL/979FWL	1200 BBL/D	3600 MCF/D	6000 BBL/D
Quail 16 State Com 203H		M-16-T20S-R34E	479FSL/1059FWL	1200 BBL/D	3600 MCF/D	6000 BBL/D
Quail 16 State Com 301H		M-16-T20S-R34E	480FSL/939FWL	950 BBL/D	2000 MCF/D	6650 BBL/D
Quail 16 State Com 302H		M-16-T20S-R34E	479FSL/1019FWL	950 BBL/D	2000 MCF/D	6650 BBL/D
Quail 16 State Com 501H		M-16-T20S-R34E	479FSL/959FEL	1400 BBL/D	2400 MCF/D	7500 BBL/D
Quail 16 State Com 502H		M-16-T20S-R34E	479FSL/999FWL	1400 BBL/D	2400 MCF/D	7500 BBL/D
Quail 16 State Com 503H		M-16-T20S-R34E	479FSL/1039FWL	1400 BBL/D	2400 MCF/D	7500 BBL/D
Quail 16 State Com 751H		M-16-T20S-R34E	329FSL/958FWL	1250 BBL/D	2600 MCF/D	7500 BBL/D
Quail 16 State Com 752H		M-16-T20S-R34E	329FSL/1018FWL	1250 BBL/D	2600 MCF/D	7500 BBL/D
Quail 16 State Com 753H		M-16-T20S-R34E	329FSL/1058FWL	1250 BBL/D	2600 MCF/D	7500 BBL/D
Quail 16 State Com 801H		M-16-T20S-R34E	329FSL/978FWL	1200 BBL/D	2500 MCF/D	6000 BBL/D
Quail 16 State Com 802H		M-16-T20S-R34E	329FSL/998FWL	1200 BBL/D	2500 MCF/D	6000 BBL/D
Quail 16 State Com 803H		M-16-T20S-R34E	329FSL/1038FWL	1200 BBL/D	2500 MCF/D	6000 BBL/D

**IV. Central Delivery Point Name:** Quail 16 State 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
Quail 16 State Com 201H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 202H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 203H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 301H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 302H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 501H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 502H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 503H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 751H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 752H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 753H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 801H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 802H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 803H		02/15/2026	03/30/2026	05/01/2026	07/01/2026	07/01/2026

**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: 08/15/25

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.