

Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-55847
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Quail 16 State Com
8. Well Number 503H
9. OGRID Number 332947
10. Pool name or Wildcat Lea; BS, South 37580
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3637' GL

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
Avant Operating II, LLC

3. Address of Operator
1515 Wynkoop Street, Suite 700. Denver, CO 80202.

4. Well Location
Unit Letter **M** : **479** feet from the **South** line and **1059** feet from the **West** line
Section **16** Township **20S** Range **34E** NMPM County **Lea**

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Avant Operating II, LLC respectfully requests to make the following changes to the subject well:


SHL: Footages moving from original 479' FSL & 1039' FWL to 479' FSL & 1059' FWL
MD change from 15,408' to 15,489'.

Please see attached updated C-102 & directional survey to reflect these changes.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE **Contract Regulatory Analyst** DATE **2/12/2026**

Type or print name **Meghan Twele** E-mail address: **mtwele@outlook.com** PHONE: **720-339-6880**

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

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

WELL LOCATION INFORMATION

API Number 30-025-55847	Pool Code 37580	Pool Name Lea; Bone Spring, South
Property Code 37745	Property Name QUAIL 16 STATE COM	Well Number #503H
OGRID No. 332947	Operator Name AVANT OPERATING II, LLC	Ground Level Elevation 3637'
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		479' FSL	1059' FWL	32.567224°	-103.570423°	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	2178' FWL	32.580121°	-103.566798°	LEA

Dedicated Acres 320.00	Infill or Defining Well Infill	Defining Well API 30-025-55840	Overlapping Spacing Unit (Y/N) Yes	Consolidation Code C
Order Numbers. Pending			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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		479' FSL	1059' FWL	32.567224°	-103.570423°	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	2178' FWL	32.566176°	-103.566789°	LEA

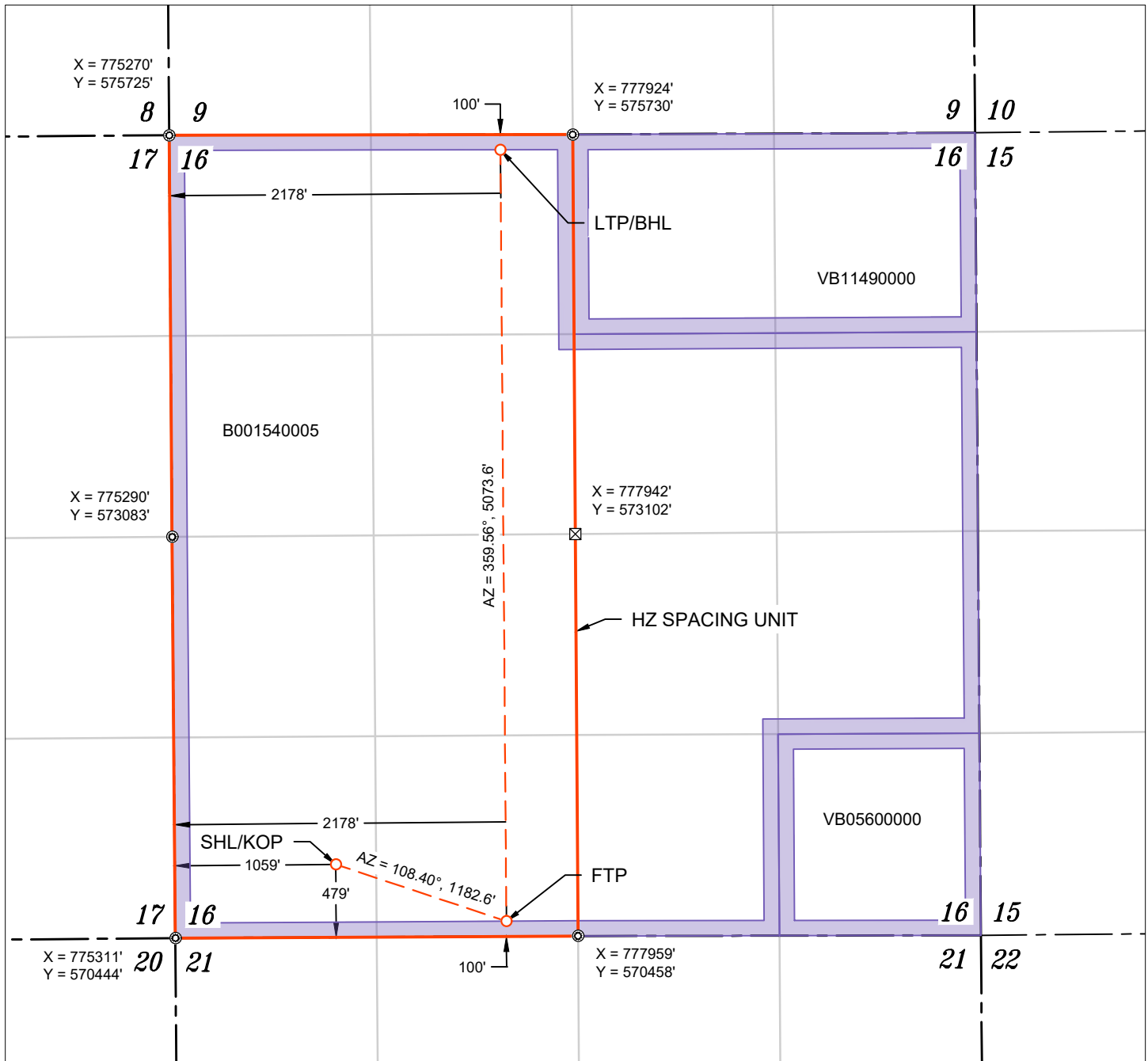
Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	16	20 S	34 E		100' FNL	2178' FWL	32.580121°	-103.566798°	LEA

Unitized Area or Area of Uniform Interest Yes	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3637'
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<p>OPERATOR CERTIFICATIONS</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;"><i>Sarah Ferreyros</i> 3/11/2026</p>	<p>SURVEYOR CERTIFICATIONS</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: right;">  <p><i>Tim C. Pappas</i> 11 February 2026</p> </div>
Signature	Signature and Seal of Professional Surveyor
Sarah Ferreyros	21209 FEBRUARY 11, 2026
Printed Name	Certificate Number
sarah@avantnr.com	Date of Survey
Email Address	

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 #503H
 ELEVATION: 3637'

NAD 83 (SHL/KOP) 479' FSL & 1059' FWL
LATITUDE = 32.567224°
LONGITUDE = -103.570423°
NAD 27 (SHL/KOP)
LATITUDE = 32.567104°
LONGITUDE = -103.569932°
STATE PLANE NAD 83 (N.M. EAST)
N: 570928.94' E: 776366.17'
STATE PLANE NAD 27 (N.M. EAST)
N: 570867.68' E: 735185.27'

NAD 83 (FTP) 100' FSL & 2178' FWL
LATITUDE = 32.566176°
LONGITUDE = -103.566789°
NAD 27 (FTP)
LATITUDE = 32.566056°
LONGITUDE = -103.566298°
STATE PLANE NAD 83 (N.M. EAST)
N: 570555.74' E: 777488.34'
STATE PLANE NAD 27 (N.M. EAST)
N: 570494.50' E: 736307.40'

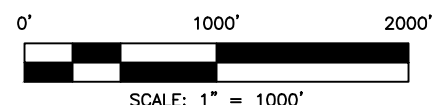
NAD 83 (LTP/BHL) 100' FNL & 2178' FWL
LATITUDE = 32.580121°
LONGITUDE = -103.566798°
NAD 27 (LTP/BHL)
LATITUDE = 32.580001°
LONGITUDE = -103.566306°
STATE PLANE NAD 83 (N.M. EAST)
N: 575629.15' E: 777449.13'
STATE PLANE NAD 27 (N.M. EAST)
N: 575567.80' E: 736268.37'

APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP	
B001540005	5073.56'
TOTAL	5073.56'

- ⊙ 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 FEBRUARY, 2026. 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.



WELL DETAILS: Quail 16 State Com #503H

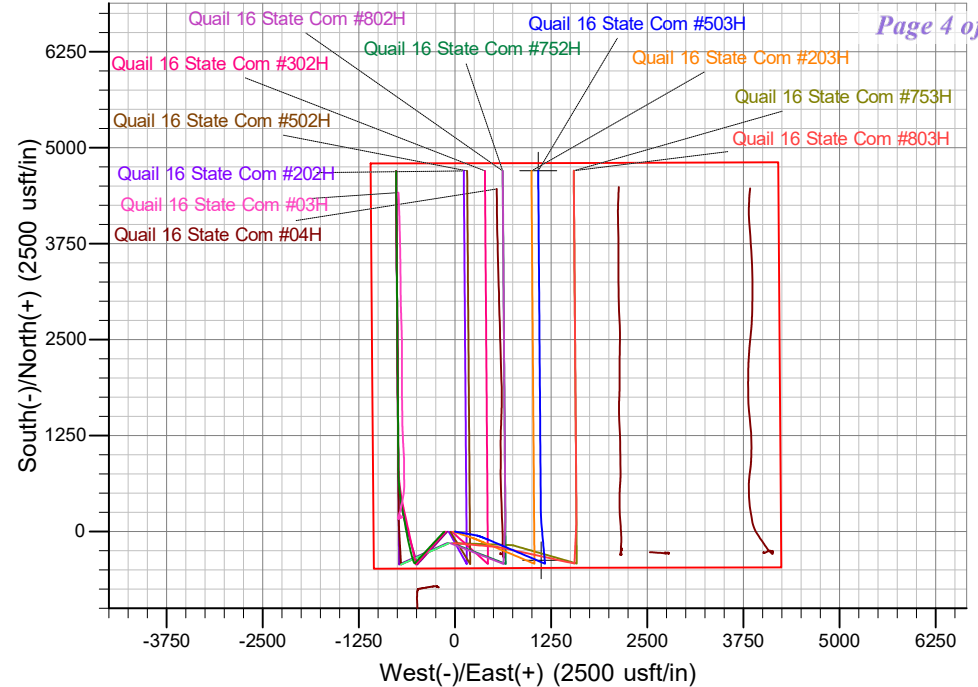
Ground Elev: 3637.0 KB: 3663.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	570929.04	776366.04	32.567224	-103.570423

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



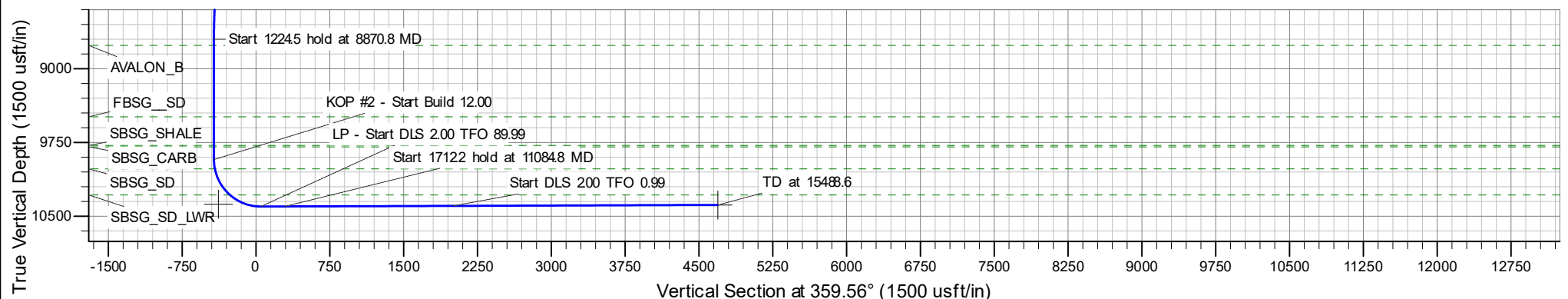
SECTION DETAILS

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	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 2.00
3	2250.0	5.00	100.00	2249.7	-1.9	10.7	2.00	100.00	-2.0	Start 3123.2 hold at 2250.0 MD
4	5373.2	5.00	100.00	5361.0	-49.2	278.8	0.00	0.00	-51.3	Start DLS 2.00 TFO 16.66
5	6197.0	21.31	112.93	6160.5	-114.2	453.2	2.00	16.66	-117.6	Start 1608.2 hold at 6197.0 MD
6	7805.2	21.31	112.93	7658.8	-341.9	991.6	0.00	0.00	-349.5	Start Drop -2.00
7	8870.8	0.00	0.00	8700.0	-418.2	1172.0	2.00	180.00	-427.2	Start 1224.5 hold at 8870.8 MD
8	10095.3	0.00	0.00	9924.5	-418.2	1172.0	0.00	0.00	-427.2	KOP #2 - Start Build 12.00
9	10846.8	90.18	354.80	10402.0	58.8	1128.6	12.00	354.80	50.1	LP - Start DLS 2.00 TFO 89.99
10	11084.8	90.18	359.56	10401.2	296.4	1116.9	2.00	89.99	287.8	Start 1712.2 hold at 11084.8 MD
11	12797.0	90.18	359.56	10395.8	2008.5	1103.7	0.00	0.00	2000.0	Start DLS 2.00 TFO 0.99
12	12798.4	90.21	359.56	10395.8	2010.0	1103.7	2.00	0.99	2001.5	Start 2690.2 hold at 12798.4 MD
13	15488.6	90.21	359.56	10386.0	4700.1	1083.1	0.00	0.00	4691.7	TD at 15488.6



Azimuths to Grid North
 True North: -0.41°
 Magnetic North: 7.36°

Magnetic Field
 Strength: 48998.5nT
 Dip Angle: 60.56°
 Date: 12/31/2009
 Model: IGRF200510



Avant Operating II, LLC

**Lea County, NM (NAD 83)
Quail 16 State Com Pad 1
Quail 16 State Com #503H**

OH

Plan: Plan 0.1

Standard Planning Report

12 February, 2026

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Quail 16 State Com #503H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3663.5usft (3663.5)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3663.5usft (3663.5)
Site:	Quail 16 State Com Pad 1	North Reference:	Grid
Well:	Quail 16 State Com #503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

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

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

Well	Quail 16 State Com #503H					
Well Position	+N/-S	0.0 usft	Northing:	570,929.05 usft	Latitude:	32.567224
	+E/-W	0.0 usft	Easting:	776,366.04 usft	Longitude:	-103.570423
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,637.0 usft
Grid Convergence:	0.41 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.77	60.56	48,998.53221407

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

Plan Survey Tool Program	Date	2/12/2026		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	15,488.6 Plan 0.1 (OH)	MWD	
			OWSG MWD - Standard	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Quail 16 State Com #503H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3663.5usft (3663.5)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3663.5usft (3663.5)
Site:	Quail 16 State Com Pad 1	North Reference:	Grid
Well:	Quail 16 State Com #503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,250.0	5.00	100.00	2,249.7	-1.9	10.7	2.00	2.00	0.00	100.00	
5,373.2	5.00	100.00	5,361.0	-49.2	278.8	0.00	0.00	0.00	0.00	
6,197.0	21.31	112.93	6,160.5	-114.2	453.2	2.00	1.98	1.57	16.66	
7,805.2	21.31	112.93	7,658.8	-341.9	991.6	0.00	0.00	0.00	0.00	
8,870.8	0.00	0.00	8,700.0	-418.2	1,172.0	2.00	-2.00	0.00	180.00	
10,095.3	0.00	0.00	9,924.5	-418.2	1,172.0	0.00	0.00	0.00	0.00	
10,846.8	90.18	354.80	10,402.0	58.8	1,128.6	12.00	12.00	0.00	354.80	
11,084.8	90.18	359.56	10,401.2	296.4	1,116.9	2.00	0.00	2.00	89.99	
12,797.0	90.18	359.56	10,395.8	2,008.5	1,103.7	0.00	0.00	0.00	0.00	
12,798.4	90.21	359.56	10,395.8	2,010.0	1,103.7	2.00	2.00	0.03	0.99	
15,488.6	90.21	359.56	10,386.0	4,700.1	1,083.1	0.00	0.00	0.00	0.00	Quail 16 State Com #

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Quail 16 State Com #503H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3663.5usft (3663.5)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3663.5usft (3663.5)
Site:	Quail 16 State Com Pad 1	North Reference:	Grid
Well:	Quail 16 State Com #503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,552.0	0.00	0.00	1,552.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,881.0	0.00	0.00	1,881.0	0.0	0.0	0.0	0.00	0.00	0.00
SOLADO									
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.00									
2,100.0	2.00	100.00	2,100.0	-0.3	1.7	-0.3	2.00	2.00	0.00
2,200.0	4.00	100.00	2,199.8	-1.2	6.9	-1.3	2.00	2.00	0.00
2,250.0	5.00	100.00	2,249.7	-1.9	10.7	-2.0	2.00	2.00	0.00
Start 3123.2 hold at 2250.0 MD									
2,300.0	5.00	100.00	2,299.5	-2.6	15.0	-2.8	0.00	0.00	0.00
2,400.0	5.00	100.00	2,399.1	-4.2	23.6	-4.3	0.00	0.00	0.00
2,500.0	5.00	100.00	2,498.7	-5.7	32.2	-5.9	0.00	0.00	0.00
2,600.0	5.00	100.00	2,598.4	-7.2	40.8	-7.5	0.00	0.00	0.00
2,700.0	5.00	100.00	2,698.0	-8.7	49.4	-9.1	0.00	0.00	0.00
2,800.0	5.00	100.00	2,797.6	-10.2	57.9	-10.7	0.00	0.00	0.00
2,900.0	5.00	100.00	2,897.2	-11.7	66.5	-12.2	0.00	0.00	0.00
3,000.0	5.00	100.00	2,996.8	-13.2	75.1	-13.8	0.00	0.00	0.00
3,100.0	5.00	100.00	3,096.4	-14.8	83.7	-15.4	0.00	0.00	0.00
3,200.0	5.00	100.00	3,196.1	-16.3	92.3	-17.0	0.00	0.00	0.00
3,300.0	5.00	100.00	3,295.7	-17.8	100.9	-18.6	0.00	0.00	0.00
3,312.4	5.00	100.00	3,308.0	-18.0	101.9	-18.8	0.00	0.00	0.00
BASE_OF_SALT									
3,400.0	5.00	100.00	3,395.3	-19.3	109.4	-20.1	0.00	0.00	0.00
3,414.7	5.00	100.00	3,410.0	-19.5	110.7	-20.4	0.00	0.00	0.00
YATES									
3,500.0	5.00	100.00	3,494.9	-20.8	118.0	-21.7	0.00	0.00	0.00
3,600.0	5.00	100.00	3,594.5	-22.3	126.6	-23.3	0.00	0.00	0.00
3,700.0	5.00	100.00	3,694.2	-23.8	135.2	-24.9	0.00	0.00	0.00
3,800.0	5.00	100.00	3,793.8	-25.4	143.8	-26.5	0.00	0.00	0.00
3,850.4	5.00	100.00	3,844.0	-26.1	148.1	-27.3	0.00	0.00	0.00
SVRV									
3,900.0	5.00	100.00	3,893.4	-26.9	152.4	-28.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Quail 16 State Com #503H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3663.5usft (3663.5)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3663.5usft (3663.5)
Site:	Quail 16 State Com Pad 1	North Reference:	Grid
Well:	Quail 16 State Com #503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,000.0	5.00	100.00	3,993.0	-28.4	160.9	-29.6	0.00	0.00	0.00	
4,019.0	5.00	100.00	4,012.0	-28.7	162.6	-29.9	0.00	0.00	0.00	
CAPITAN_REEF										
4,100.0	5.00	100.00	4,092.6	-29.9	169.5	-31.2	0.00	0.00	0.00	
4,200.0	5.00	100.00	4,192.3	-31.4	178.1	-32.8	0.00	0.00	0.00	
4,300.0	5.00	100.00	4,291.9	-32.9	186.7	-34.4	0.00	0.00	0.00	
4,400.0	5.00	100.00	4,391.5	-34.4	195.3	-35.9	0.00	0.00	0.00	
4,500.0	5.00	100.00	4,491.1	-35.9	203.9	-37.5	0.00	0.00	0.00	
4,600.0	5.00	100.00	4,590.7	-37.5	212.4	-39.1	0.00	0.00	0.00	
4,700.0	5.00	100.00	4,690.4	-39.0	221.0	-40.7	0.00	0.00	0.00	
4,800.0	5.00	100.00	4,790.0	-40.5	229.6	-42.2	0.00	0.00	0.00	
4,900.0	5.00	100.00	4,889.6	-42.0	238.2	-43.8	0.00	0.00	0.00	
5,000.0	5.00	100.00	4,989.2	-43.5	246.8	-45.4	0.00	0.00	0.00	
5,100.0	5.00	100.00	5,088.8	-45.0	255.4	-47.0	0.00	0.00	0.00	
5,200.0	5.00	100.00	5,188.5	-46.5	263.9	-48.6	0.00	0.00	0.00	
5,280.9	5.00	100.00	5,269.0	-47.8	270.9	-49.8	0.00	0.00	0.00	
CPTN_REEF_BASE										
5,300.0	5.00	100.00	5,288.1	-48.1	272.5	-50.1	0.00	0.00	0.00	
5,373.2	5.00	100.00	5,361.0	-49.2	278.8	-51.3	0.00	0.00	0.00	
Start DLS 2.00 TFO 16.66										
5,400.0	5.52	101.60	5,387.7	-49.6	281.2	-51.8	2.00	1.92	5.97	
5,500.0	7.46	105.60	5,487.0	-52.3	292.2	-54.6	2.00	1.95	4.00	
5,572.7	8.90	107.41	5,559.0	-55.3	302.1	-57.6	2.00	1.97	2.49	
CHERRY_CNYN										
5,600.0	9.44	107.95	5,585.9	-56.6	306.2	-59.0	2.00	1.98	1.97	
5,700.0	11.42	109.49	5,684.3	-62.4	323.4	-64.9	2.00	1.98	1.54	
5,800.0	13.40	110.58	5,782.0	-69.8	343.5	-72.5	2.00	1.99	1.09	
5,900.0	15.39	111.39	5,878.8	-78.7	366.8	-81.5	2.00	1.99	0.81	
6,000.0	17.38	112.02	5,974.7	-89.2	393.0	-92.2	2.00	1.99	0.63	
6,100.0	19.38	112.53	6,069.6	-101.1	422.1	-104.4	2.00	1.99	0.50	
6,197.0	21.31	112.93	6,160.5	-114.2	453.2	-117.6	2.00	1.99	0.41	
Start 1608.2 hold at 6197.0 MD										
6,200.0	21.31	112.93	6,163.4	-114.6	454.2	-118.1	0.00	0.00	0.00	
6,300.0	21.31	112.93	6,256.5	-128.8	487.7	-132.5	0.00	0.00	0.00	
6,400.0	21.31	112.93	6,349.7	-142.9	521.2	-146.9	0.00	0.00	0.00	
6,500.0	21.31	112.93	6,442.9	-157.1	554.7	-161.3	0.00	0.00	0.00	
6,600.0	21.31	112.93	6,536.0	-171.2	588.1	-175.7	0.00	0.00	0.00	
6,690.1	21.31	112.93	6,620.0	-184.0	618.3	-188.7	0.00	0.00	0.00	
BRUSHY_CANYON										
6,700.0	21.31	112.93	6,629.2	-185.4	621.6	-190.2	0.00	0.00	0.00	
6,800.0	21.31	112.93	6,722.3	-199.5	655.1	-204.6	0.00	0.00	0.00	
6,900.0	21.31	112.93	6,815.5	-213.7	688.6	-219.0	0.00	0.00	0.00	
7,000.0	21.31	112.93	6,908.7	-227.9	722.0	-233.4	0.00	0.00	0.00	
7,100.0	21.31	112.93	7,001.8	-242.0	755.5	-247.8	0.00	0.00	0.00	
7,200.0	21.31	112.93	7,095.0	-256.2	789.0	-262.2	0.00	0.00	0.00	
7,300.0	21.31	112.93	7,188.1	-270.3	822.5	-276.7	0.00	0.00	0.00	
7,400.0	21.31	112.93	7,281.3	-284.5	855.9	-291.1	0.00	0.00	0.00	
7,500.0	21.31	112.93	7,374.5	-298.7	889.4	-305.5	0.00	0.00	0.00	
7,600.0	21.31	112.93	7,467.6	-312.8	922.9	-319.9	0.00	0.00	0.00	
7,700.0	21.31	112.93	7,560.8	-327.0	956.4	-334.3	0.00	0.00	0.00	
7,800.0	21.31	112.93	7,654.0	-341.1	989.8	-348.7	0.00	0.00	0.00	
7,805.2	21.31	112.93	7,658.8	-341.9	991.6	-349.5	0.00	0.00	0.00	
Start Drop -2.00										

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Quail 16 State Com #503H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3663.5usft (3663.5)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3663.5usft (3663.5)
Site:	Quail 16 State Com Pad 1	North Reference:	Grid
Well:	Quail 16 State Com #503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,900.0	19.42	112.93	7,747.7	-354.7	1,021.9	-362.6	2.00	-2.00	0.00	
8,000.0	17.42	112.93	7,842.5	-367.0	1,051.0	-375.1	2.00	-2.00	0.00	
8,100.0	15.42	112.93	7,938.5	-378.0	1,077.1	-386.3	2.00	-2.00	0.00	
8,200.0	13.42	112.93	8,035.3	-387.7	1,100.0	-396.2	2.00	-2.00	0.00	
8,300.0	11.42	112.93	8,133.0	-396.1	1,119.8	-404.7	2.00	-2.00	0.00	
8,400.0	9.42	112.93	8,231.3	-403.2	1,136.5	-411.9	2.00	-2.00	0.00	
8,500.0	7.42	112.93	8,330.2	-408.9	1,149.9	-417.7	2.00	-2.00	0.00	
8,527.0	6.88	112.93	8,357.0	-410.2	1,153.0	-419.0	2.00	-2.00	0.00	
BSPG_LIME										
8,600.0	5.42	112.93	8,429.6	-413.2	1,160.2	-422.1	2.00	-2.00	0.00	
8,700.0	3.42	112.93	8,529.3	-416.2	1,167.3	-425.2	2.00	-2.00	0.00	
8,800.0	1.42	112.93	8,629.2	-417.9	1,171.2	-426.8	2.00	-2.00	0.00	
8,870.8	0.00	0.00	8,700.0	-418.2	1,172.0	-427.2	2.00	-2.00	0.00	
Start 1224.5 hold at 8870.8 MD										
8,900.0	0.00	0.00	8,729.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
8,934.8	0.00	0.00	8,764.0	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
AVALON_B										
9,000.0	0.00	0.00	8,829.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,929.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,029.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,129.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,229.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,329.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,429.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,660.8	0.00	0.00	9,490.0	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
FBSG_SD										
9,700.0	0.00	0.00	9,529.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,629.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,729.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
9,951.8	0.00	0.00	9,781.0	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
SBSG_SHALE										
9,965.8	0.00	0.00	9,795.0	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
SBSG_CARB										
10,000.0	0.00	0.00	9,829.2	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
10,095.3	0.00	0.00	9,924.5	-418.2	1,172.0	-427.2	0.00	0.00	0.00	
KOP #2 - Start Build 12.00										
10,100.0	0.56	354.80	9,929.2	-418.2	1,172.0	-427.2	12.00	12.00	0.00	
10,191.5	11.54	354.80	10,020.0	-408.6	1,171.1	-417.6	12.00	12.00	0.00	
SBSG_SD										
10,200.0	12.56	354.80	10,028.4	-406.8	1,171.0	-415.8	12.00	12.00	0.00	
10,300.0	24.56	354.80	10,123.0	-375.2	1,168.1	-384.1	12.00	12.00	0.00	
10,400.0	36.56	354.80	10,208.9	-324.6	1,163.5	-333.5	12.00	12.00	0.00	
10,495.2	47.98	354.80	10,279.2	-261.0	1,157.7	-269.9	12.00	12.00	0.00	
Quail 16 State Com #503H FTP										
10,500.0	48.56	354.80	10,282.4	-257.4	1,157.4	-266.3	12.00	12.00	0.00	
10,502.3	48.85	354.80	10,284.0	-255.6	1,157.2	-264.5	12.00	12.00	0.00	
SBSG_SD_LWR										
10,600.0	60.56	354.80	10,340.3	-176.4	1,150.0	-185.2	12.00	12.00	0.00	
10,700.0	72.56	354.80	10,380.0	-85.2	1,141.7	-93.9	12.00	12.00	0.00	
10,800.0	84.56	354.80	10,399.8	12.2	1,132.8	3.5	12.00	12.00	0.00	
10,846.8	90.18	354.80	10,402.0	58.8	1,128.6	50.1	12.00	12.00	0.00	
LP - Start DLS 2.00 TFO 89.99										
10,900.0	90.18	355.86	10,401.8	111.8	1,124.3	103.2	2.00	0.00	2.00	

Planning Report

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Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3663.5usft (3663.5)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3663.5usft (3663.5)
Site:	Quail 16 State Com Pad 1	North Reference:	Grid
Well:	Quail 16 State Com #503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,000.0	90.18	357.86	10,401.5	211.7	1,118.8	203.1	2.00	0.00	2.00
11,084.8	90.18	359.56	10,401.2	296.4	1,116.9	287.8	2.00	0.00	2.00
Start 1712.2 hold at 11084.8 MD									
11,100.0	90.18	359.56	10,401.2	311.6	1,116.8	303.0	0.00	0.00	0.00
11,200.0	90.18	359.56	10,400.9	411.6	1,116.0	403.0	0.00	0.00	0.00
11,300.0	90.18	359.56	10,400.5	511.6	1,115.2	503.0	0.00	0.00	0.00
11,400.0	90.18	359.56	10,400.2	611.6	1,114.5	603.0	0.00	0.00	0.00
11,500.0	90.18	359.56	10,399.9	711.6	1,113.7	703.0	0.00	0.00	0.00
11,600.0	90.18	359.56	10,399.6	811.6	1,112.9	803.0	0.00	0.00	0.00
11,700.0	90.18	359.56	10,399.3	911.6	1,112.2	903.0	0.00	0.00	0.00
11,800.0	90.18	359.56	10,399.0	1,011.6	1,111.4	1,003.0	0.00	0.00	0.00
11,900.0	90.18	359.56	10,398.7	1,111.6	1,110.6	1,103.0	0.00	0.00	0.00
12,000.0	90.18	359.56	10,398.3	1,211.6	1,109.9	1,203.0	0.00	0.00	0.00
12,100.0	90.18	359.56	10,398.0	1,311.6	1,109.1	1,303.0	0.00	0.00	0.00
12,200.0	90.18	359.56	10,397.7	1,411.6	1,108.3	1,403.0	0.00	0.00	0.00
12,300.0	90.18	359.56	10,397.4	1,511.6	1,107.6	1,503.0	0.00	0.00	0.00
12,400.0	90.18	359.56	10,397.1	1,611.6	1,106.8	1,603.0	0.00	0.00	0.00
12,500.0	90.18	359.56	10,396.8	1,711.6	1,106.0	1,703.0	0.00	0.00	0.00
12,600.0	90.18	359.56	10,396.5	1,811.6	1,105.2	1,803.0	0.00	0.00	0.00
12,700.0	90.18	359.56	10,396.1	1,911.6	1,104.5	1,903.0	0.00	0.00	0.00
12,797.0	90.18	359.56	10,395.8	2,008.5	1,103.7	2,000.0	0.00	0.00	0.00
Start DLS 2.00 TFO 0.99									
12,798.4	90.21	359.56	10,395.8	2,010.0	1,103.7	2,001.5	2.00	2.00	0.03
Start 2690.2 hold at 12798.4 MD									
12,800.0	90.21	359.56	10,395.8	2,011.6	1,103.7	2,003.0	0.00	0.00	0.00
12,900.0	90.21	359.56	10,395.5	2,111.6	1,102.9	2,103.0	0.00	0.00	0.00
13,000.0	90.21	359.56	10,395.1	2,211.6	1,102.2	2,203.0	0.00	0.00	0.00
13,100.0	90.21	359.56	10,394.7	2,311.6	1,101.4	2,303.0	0.00	0.00	0.00
13,200.0	90.21	359.56	10,394.4	2,411.6	1,100.6	2,403.0	0.00	0.00	0.00
13,300.0	90.21	359.56	10,394.0	2,511.6	1,099.9	2,503.0	0.00	0.00	0.00
13,400.0	90.21	359.56	10,393.6	2,611.5	1,099.1	2,603.0	0.00	0.00	0.00
13,500.0	90.21	359.56	10,393.3	2,711.5	1,098.3	2,703.0	0.00	0.00	0.00
13,600.0	90.21	359.56	10,392.9	2,811.5	1,097.6	2,803.0	0.00	0.00	0.00
13,700.0	90.21	359.56	10,392.5	2,911.5	1,096.8	2,903.0	0.00	0.00	0.00
13,800.0	90.21	359.56	10,392.2	3,011.5	1,096.0	3,003.0	0.00	0.00	0.00
13,900.0	90.21	359.56	10,391.8	3,111.5	1,095.3	3,103.0	0.00	0.00	0.00
14,000.0	90.21	359.56	10,391.4	3,211.5	1,094.5	3,203.0	0.00	0.00	0.00
14,100.0	90.21	359.56	10,391.1	3,311.5	1,093.7	3,303.0	0.00	0.00	0.00
14,200.0	90.21	359.56	10,390.7	3,411.5	1,093.0	3,403.0	0.00	0.00	0.00
14,300.0	90.21	359.56	10,390.3	3,511.5	1,092.2	3,503.0	0.00	0.00	0.00
14,400.0	90.21	359.56	10,390.0	3,611.5	1,091.4	3,603.0	0.00	0.00	0.00
14,500.0	90.21	359.56	10,389.6	3,711.5	1,090.7	3,703.0	0.00	0.00	0.00
14,600.0	90.21	359.56	10,389.2	3,811.5	1,089.9	3,803.0	0.00	0.00	0.00
14,700.0	90.21	359.56	10,388.9	3,911.5	1,089.1	3,903.0	0.00	0.00	0.00
14,800.0	90.21	359.56	10,388.5	4,011.5	1,088.4	4,003.0	0.00	0.00	0.00
14,900.0	90.21	359.56	10,388.2	4,111.5	1,087.6	4,103.0	0.00	0.00	0.00
15,000.0	90.21	359.56	10,387.8	4,211.5	1,086.8	4,203.0	0.00	0.00	0.00
15,100.0	90.21	359.56	10,387.4	4,311.5	1,086.1	4,303.0	0.00	0.00	0.00
15,200.0	90.21	359.56	10,387.1	4,411.5	1,085.3	4,403.0	0.00	0.00	0.00
15,300.0	90.21	359.56	10,386.7	4,511.5	1,084.5	4,503.0	0.00	0.00	0.00
15,400.0	90.21	359.56	10,386.3	4,611.5	1,083.8	4,603.0	0.00	0.00	0.00
15,488.6	90.21	359.56	10,386.0	4,700.1	1,083.1	4,691.7	0.00	0.00	0.00
TD at 15488.6 - Quail 16 State Com #503H LTP/BHL									

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Quail 16 State Com #503H
Company:	Avant Operating II, LLC	TVD Reference:	WELL @ 3663.5usft (3663.5)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3663.5usft (3663.5)
Site:	Quail 16 State Com Pad 1	North Reference:	Grid
Well:	Quail 16 State Com #503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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 #50: - plan misses target center by 154.3usft at 10495.2usft MD (10279.2 TVD, -261.0 N, 1157.7 E) - Point	0.00	0.00	10,379.0	-373.3	1,122.3	570,555.74	777,488.34	32.566176	-103.566789
Quail 16 State Com #50: - plan hits target center - Point	0.00	0.00	10,386.0	4,700.1	1,083.1	575,629.15	777,449.13	32.580121	-103.566798

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(")	(")	
15,427.1	10,386.2	20" Casing	20	24	

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				
3,312.4	3,308.0	BASE_OF_SALT				
3,414.7	3,410.0	YATES				
3,850.4	3,844.0	SVRV				
4,019.0	4,012.0	CAPITAN_REEF				
5,280.9	5,269.0	CPTN_REEF_BASE				
5,572.7	5,559.0	CHERRY_CNYN				
6,690.1	6,620.0	BRUSHY_CANYON				
8,527.0	8,357.0	BSPG_LIME				
8,934.8	8,764.0	AVALON_B				
9,660.8	9,490.0	FBSG_SD				
9,951.8	9,781.0	SBSG_SHALE				
9,965.8	9,795.0	SBSG_CARB				
10,191.5	10,020.0	SBSG_SD				
10,502.3	10,284.0	SBSG_SD_LWR				

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Wellbore:	OH		
Design:	Plan 0.1		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,000.0	2,000.0	0.0	0.0	KOP - Start Build 2.00	
2,250.0	2,249.7	-1.9	10.7	Start 3123.2 hold at 2250.0 MD	
5,373.2	5,361.0	-49.2	278.8	Start DLS 2.00 TFO 16.66	
6,197.0	6,160.5	-114.2	453.2	Start 1608.2 hold at 6197.0 MD	
7,805.2	7,658.8	-341.9	991.6	Start Drop -2.00	
8,870.8	8,700.0	-418.2	1,172.0	Start 1224.5 hold at 8870.8 MD	
10,095.3	9,924.5	-418.2	1,172.0	KOP #2 - Start Build 12.00	
10,846.8	10,402.0	58.8	1,128.6	LP - Start DLS 2.00 TFO 89.99	
11,084.8	10,401.2	296.4	1,116.9	Start 1712.2 hold at 11084.8 MD	
12,797.0	10,395.8	2,008.5	1,103.7	Start DLS 2.00 TFO 0.99	
12,798.4	10,395.8	2,010.0	1,103.7	Start 2690.2 hold at 12798.4 MD	
15,488.6	10,386.0	4,700.1	1,083.1	TD at 15488.6	

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 553715

CONDITIONS

Operator: Avant Operating II, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 332947
	Action Number: 553715
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	3/12/2026
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing. If strata isolation is not achieved, remediation will be required before further operations may commence.	3/12/2026
matthew.gomez	All conducted logs must be submitted to the OCD.	3/12/2026
matthew.gomez	Cement must be in place for at least eight hours AND achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	3/12/2026
matthew.gomez	All previous COA's not addressed within the updated COA's still apply.	3/12/2026