Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Energy, Minerals and Natural Resources Oil Conservation Division Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us 1220 S. St Francis Dr.

Form C-101 August 1, 2011

Permit 399907

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

Santa Fe, NM 87505

State of New Mexico

Operator Name and Address		2. OGRID Number
Avant Operating II, LLC		332947
1515 Wynkoop Street		3. API Number
Denver, CO 80202		30-025-55445
4. Property Code	5. Property Name	6. Well No.
337745	QUAIL 16 STATE COM	501H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
С	16	20S	34E	С	250	N	1400	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	16	20S	34E	M	100	S	330	W	Lea

9. Pool Information

LEA;BONE SPRING, SOUTH	37580

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3631
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	15359	2nd Bone Spring Sand		12/1/2025
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

			21111000000 0001115	g and comoner regram		
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	40.5	1571	760	0
Int1	9.875	8.625	32	5438	920	0
Prod	7.875	5.5	20	15359	1490	0

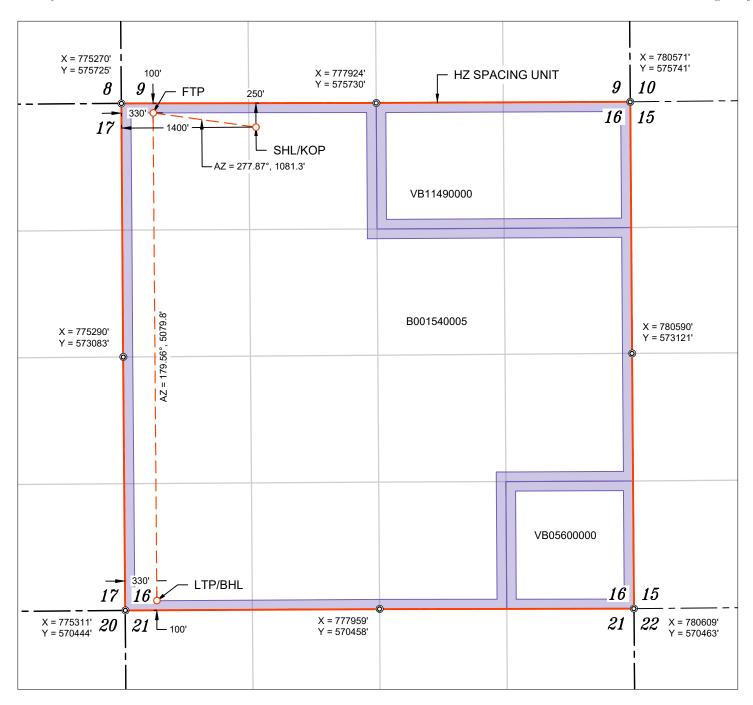
Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Pipe	10000	5000	CAMERON

knowledge and be I hereby certify that or recompletion of	at no additives containing PFAS che f this well.	true and complete to the best of my micals will be added to the completion		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:	11/12/2025	Expiration Date: 11/12/2027
Date:	11/10/2025	Phone: 720-854-9020	Conditions of Appr	oval Attached	

C-102 Submit Electronically Via OCD Permitting		En		inerals & Nat	lew Mexico tural Resources Depa ATION DIVISION	ral Resources Department			Revised July 9, 2024	
Via OC	D Permitting	5						Submitta	I Initial Sul	
								Type:	☐ As Drilled	
					WELL LOC	ATION INFORMATIO	N			
API Number			Pool Code	37580)	Pool Name Lea; I	Bone Sp	ring, Sc	outh	
Propert	v Code		Property Na			L 16 STATE COM	<u> </u>		Well Number	
OGRIE		7745	Operator Na	ame	QUAII	L 16 STATE COM			Ground Leve	#501H
OGKIL	332	2947	operator 14	anic	AVANT	OPERATING II, LLC			Ground Leve	3631'
Surface	Owner: 🛛 S	State Fee	Tribal 🗆 Fe	deral		Mineral Owner: 🛛	State Fee	□ Tribal □	Federal	
					Su	rface Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
С	16	20 S	34 E		250' FNL	1400' FWL	32.579	720° -	103.569323°	LEA
					Botto	om Hole Location		<u> </u>	-	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
М	16	20 S	34 E		100' FSL	. 330' FWL	32.566	185° -	103.572787°	LEA
		1 m D m	. *** 11	D.C.:	XX 11 A DX		11 : (T/A)			
	ted Acres	Infill or Defin	-	1	Well API	Overlapping Spacing No	Unit (Y/N)		ition Code /a	
	Numbers.	Infill	L		n/a	Well setbacks are u	nder Commo			
Older	vuinocis.	Pending				Well setbacks are u	nuci Commo	ii Ownersii	ip. 🗆 res zervo	
		T =	T =			Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude 32.579		Longitude 103.569323°	County
С	16	20 S	34 E		250' FNL		32.579	720 -	103.309323	LEA
UL	Section	Township	Range	Lot	Ft. from N/S	Take Point (FTP) Ft. from E/W	Latitude		Longitude	County
D	16	20 S	34 E	Lot	100' FNL		32.580		103.572797°	LEA
	10	200	0+ L			Take Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
М	16	20 S	34 E		100' FSL	. 330' FWL	32.566	185° -	103.572787°	LEA
							1			
Unitize		ea of Uniform I	nterest	Spacing	Unit Type 🛭 Ho	rizontal Vertical	Grou	nd Floor El	evation: 3631'	
ODED	ATOD CED	TIFICATIONS	,			SURVEYOR CERTIF	TCATIONS			
I hereby my know organiza including location interest,	certify that the ledge and beli ution either own g the proposed pursuant to a c	information conto ef, and, if the well ns a working interd bottom hole locat	ained herein is to is a vertical or o est or unleased o ion or has a righ wner of a workin	directional w mineral inter ht to drill this ng interest or	est in the land well at this unleased mineral	I hereby certify that the we. surveys made by me or und of my belief.	ll location show			
consent in each t	of at least one i ract (in the tar	tal well, I further of lessee or owner of get pool or format or obtained a con	a working inter tion) in which an apulsory pooling	est or unleas y part of the	ed mineral interest well's completed the division.	Ju	- 26 9	Sept 2	025 ESSI	DNAL SURVEYOR
Signatur	re		Date	:		Signature and Seal of Pro	fessional Surv	eyor		
	S	arah Ferre	yros			21209	SEPTEM	BER 26,	2025	
Printed	Name					Certificate Number	Date of Sur	vey		
	sara	ıh@avantn	r.com							
Email A	ddress					_				



WELL NAME: QUAIL 16 STATE COM #501H ELEVATION: 3631'

NAD 83 (SHL/KOP) 250' FNL & 1400' FWL
LATITUDE = 32.579720°
LONGITUDE = -103.569323° NAD 27 (SHL/KOP)
LATITUDE = 32.579600°
LONGITUDE = -103.568832°
STATE PLANE NAD 83 (N.M. EAST)
N: 575477.70' E: 776672.23' STATE PLANE NAD 27 (N.M. EAST)
N: 575416.35' E: 735491.48'

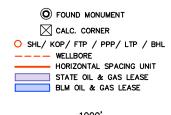
NAD 83 (FTP) 100' FNL & 330' FWL
LATITUDE = 32.580148°
LONGITUDE = -103.572797°
NAD 27 (FTP)
LATITUDE = 32.580028°
LONGITUDE = -103.572305°
STATE PLANE NAD 83 (N.M. EAST)
N: 575625.72' E: 775601.11'
STATE PLANE NAD 27 (N.M. EAST)
N: 575564.35' E: 734420.38'

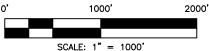
N	AD 83 (LTP/BHL) 100' FSL & 330' FWL
L	ATITUDE = 32.566185°
L	ONGITUDE = -103.572787°
N	AD 27 (LTP/BHL)
L	ATITUDE = 32.566066°
L	ONGITUDE = -103.572297°
S	TATE PLANE NAD 83 (N.M. EAST)
N	: 570546.03' E: 775640.36'
S	TATE PLANE NAD 27 (N.M. EAST)
N	: 570484.77' E: 734459.46'

APPROXIMATE DISTANCE FROM	
B001540005	5079.84
TOTAL	5079.84

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.





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 Comments

Permit 399907

PERMIT COMMENTS

Operator Name and Address:	API Number:				
Avant Operating II, LLC [332947]	30-025-55445				
1515 Wynkoop Street	Well:				
Denver, CO 80202	QUAIL 16 STATE COM #501H				

Created By	Comment	Comment Date
jeffrey.harrison	Please correct the Casing and Cement table data and review and correct the NGMP before resubmittal.	10/15/2025
	Proposed well design enters into R-111-Q area at too shallow of a depth. Please re-submit with a compliant R-111-Q well design or re-plan the well's trajectory so as to not enter the R-111-Q area until after penetrating the Delaware Mountain Group below the base of the Capitan Reef.	11/6/2025
twelem	Updated directional plans to avoid potash boundary.	11/10/2025

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 399907

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:				
Avant Operating II, LLC [332947]	30-025-55445				
1515 Wynkoop Street	Well:				
Denver, CO 80202	QUAIL 16 STATE COM #501H				

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	The OCD is currently reviewing the areas containing the Capitan Reef Aquifer and may expand the designated 4-string casing area to encompass additional portions of it in the future.
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	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

Inten	t	As Dril	led											
API#	ŧ													
Ope	rator Na	me:				Prop	erty N	ame:						Well Number
Kick (Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	E/W	County	
Latitu	Latitude Lo												NAD	
First 7	Taka Dain	.+ /FTD\												
UL	Take Poir	Township	Range	Lot	Feet From N/S Feet From E/W Cou							County		
		TOWNSHIP	Kange	Lot			1101111	.,5	1000					
Latitu	ude				Longitude N							NAD		
Last T	Take Poin	t (LTP)												
UL	Section	Township	Range	Lot	Feet	Fron	n N/S	Feet		From E/	/W	Count	у	
Latitu	ude			<u> </u>	Longitu	ude						NAD		
Is this	s well the	defining w	vell for th	ie Hori	zontal Sı	pacing	Unit?			7				
		Ü			·		,	L						
Is this	s well an	infill well?												
If infil	ll is yes p	lease provi	de API if	availal	ole, Ope	rator N	Name	and w	vell ni	umber f	for E	Definin	ng well fo	r Horizontal
	ng Unit.	·			•									
API#	ł													
Ope	rator Nai	me:	1			Prop	erty N	ame:						Well Number

KZ 06/29/2018



WELL DETAILS: Quail 16 State Com #501H

Ground Elev: 3631.0 KB: 3656

+N/-S +E/-W Northing Easting Latittude Longitude 0.0 0.0 575477.75 776672.28 32.579720 -103.569323

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

10361.0

10361.0

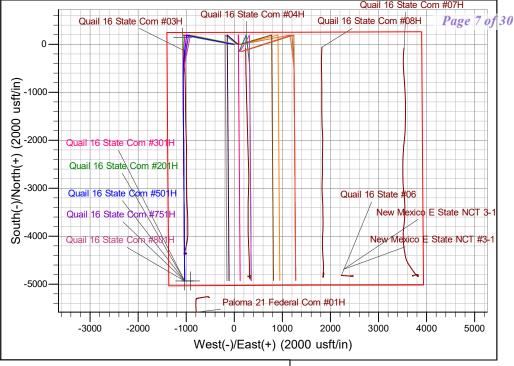
-631.6

-4931.9

System Datum: Mean Sea Level

179.57

179.57



Start 4300.4 hold at 11120.8 MD

TD at 15421.2

SECTION DETAILS MD Azi **TVD** +N/-S +E/-W **TFace VSect** Annotation Sec Inc Dleg 0.0 0.00 0.0 0.00 0.00 0.0 1 0.00 0.0 0.0 2 5500.0 0.00 0.00 5500.0 0.0 0.0 0.00 0.00 0.0 KOP - Start Build 2.00 3 6321.2 16.42 281.14 6310.0 22.6 -114.7 2.00 281.14 -23.4 Start 2741.9 hold at 6321.2 MD 4 9063.1 16.42 8940.0 172.4 -875.3 281.14 0.00 0.00 -179.0Start Drop -2.00 5 Start 133.5 hold at 9884.3 MD 9884.3 0.00 0.00 9750.0 195.0 -990.0 2.00 180.00 -202.4KOP #2 - Start Build 12.00 6 10017.8 0.00 0.00 9883.5 195.0 -990.0 0.00 0.00 -202.410767.8 90.00 186.57 10361.0 -279.3-1044.6 12.00 186.57 271.5 LP - Start 3.2 hold at 10767.8 MD 8 10771.0 90.00 186.57 10361.0 -282.5 -1045.0 0.00 0.00 274.6 Start DLS 2.00 TFO -90.00

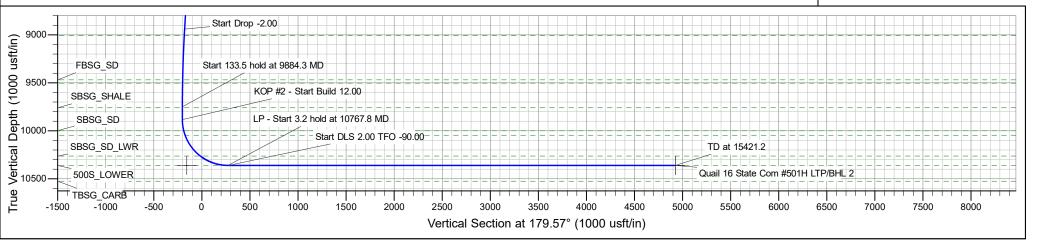
-1063.7

-1031.8 0.00

2.00

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

Magnetic Field
Strength: 49006.2nT
Dip Angle: 60.57°
Date: 12/31/2009
Model: IGRF200510



-90.00

0.00

623.6

4924.0

9

10

11120.8

15421.2

90.00

90.00

Avant Operating II, LLC

Lea County, NM (NAD 83)
Quail 16 State Com Pad 1
Quail 16 State Com #501H

OH

Plan: Plan 0.1

Standard Planning Report

06 November, 2025

Local Co-ordinate Reference:

Database: EDM 5000.16 Single User Db Company: Avant Operating II, LLC Project: Lea County, NM (NAD 83)
Site: Quail 16 State Com Pad 1
Well: Quail 16 State Com #501H

 ting II, LLC
 TVD Reference:

 NM (NAD 83)
 MD Reference:

 te Com Pad 1
 North Reference:

 te Com #501H
 Survey Calculation Method:

Well Quail 16 State Com #501H WELL @ 3656.0usft (3656) WELL @ 3656.0usft (3656) Grid

Minimum Curvature

Wellbore: OH
Design: Plan 0.1

Project

Map System:

Geo Datum:

Map Zone:

Lea County, NM (NAD 83)

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum: Mean Sea Level

-**,** ------

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

Well Quail 16 State Com #501H **Well Position** +N/-S 0.0 usft Northing: 575,477.75 usft Latitude: 32.579720 +E/-W 0.0 usft Easting: 776,672.28 usft Longitude: -103.569323 **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,631.0 usft 0.41° **Grid Convergence:**

ОН Wellbore Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) 49,006.23681103 IGRF200510 12/31/2009 7.77 60.57

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) (°) 179.57 0.0 0.0 0.0

Plan Survey Tool Program	Date	11/6/2025			
Depth From	Depth To	(usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	15,421.2	Plan 0.1 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM

Database: EDM 5000.16 Single User Db Company: Avant Operating II, LLC
Project: Lea County, NM (NAD 83)
Site: Quail 16 State Com Pad 1
Well: Quail 16 State Com #501H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

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	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,321.2	16.42	281.14	6,310.0	22.6	-114.7	2.00	2.00	0.00	281.14	
9,063.1	16.42	281.14	8,940.0	172.4	-875.3	0.00	0.00	0.00	0.00	
9,884.3	0.00	0.00	9,750.0	195.0	-990.0	2.00	-2.00	0.00	180.00	
10,017.8	0.00	0.00	9,883.5	195.0	-990.0	0.00	0.00	0.00	0.00	
10,767.8	90.00	186.57	10,361.0	-279.3	-1,044.6	12.00	12.00	0.00	186.57	
10,771.0	90.00	186.57	10,361.0	-282.5	-1,045.0	0.00	0.00	0.00	0.00	
11,120.8	90.00	179.57	10,361.0	-631.6	-1,063.7	2.00	0.00	-2.00	-90.00	
15,421.2	90.00	179.57	10,361.0	-4,931.9	-1,031.8	0.00	0.00	0.00	0.00	Quail 16 State Com#

Database: EDM 5000.16 Single User Db Company: Avant Operating II, LLC
Project: Lea County, NM (NAD 83)
Site: Quail 16 State Com Pad 1
Well: Quail 16 State Com #501H

Wellbore: OH
Design: Plan 0.1

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

North Reference: Survey Calculation Method: Well Quail 16 State Com #501H WELL @ 3656.0usft (3656) WELL @ 3656.0usft (3656)

Grid Minimum Curvature

anned 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	0.008	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
1,546.0	0.00	0.00	1,546.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER	0.00	0.00	1,540.0	0.0	0.0	0.0	0.00	0.00	0.00
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
1,875.0	0.00	0.00	1,875.0	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
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
3,302.0	0.00	0.00	3,302.0	0.0	0.0	0.0	0.00	0.00	0.00
BASE_OF_S									
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,404.0	0.00	0.00	3,404.0	0.0	0.0	0.0	0.00	0.00	0.00
YATES									
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 3,700.0	0.00 0.00	0.00 0.00	3,600.0 3,700.0	0.0 0.0	0.0	0.0	0.00	0.00 0.00	0.00
3,700.0 3,800.0	0.00	0.00	3,700.0 3,800.0	0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.00
3,823.0	0.00	0.00	3,823.0	0.0	0.0	0.0	0.00	0.00	0.00
3,823.0 SVRV	0.00	0.00	3,023.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
			,						
3,991.0	0.00	0.00	3,991.0	0.0	0.0	0.0	0.00	0.00	0.00
CAPITAN_RI	EEF								
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	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: Quail 16 State Com Pad 1
Well: Quail 16 State Com #501H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

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)
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	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
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	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
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start B									
5,538.0	0.76	281.14	5,538.0	0.0	-0.2	-0.1	2.00	2.00	0.00
CHERRY_CN'	YN								
5,600.0	2.00	281.14	5,600.0	0.3	-1.7	-0.4	2.00	2.00	0.00
5,700.0	4.00	281.14	5,699.8	1.3	-6.8	-1.4	2.00	2.00	0.00
5,800.0	6.00	281.14	5,799.5	3.0	-15.4	-3.1	2.00	2.00	0.00
5,900.0	8.00	281.14	5,898.7	5.4	-27.4	-5.6	2.00	2.00	0.00
6,000.0	10.00	281.14	5,997.5	8.4	-42.7	-8.7	2.00	2.00	0.00
6,100.0	12.00	281.14	6,095.6	12.1	-61.4	-12.6	2.00	2.00	0.00
6,200.0	14.00	281.14	6,193.1	16.4	-83.5	-17.1	2.00	2.00	0.00
6,300.0	16.00	281.14	6,289.6	21.4	-108.9	-22.3	2.00	2.00	0.00
6,321.2	16.42	281.14	6,310.0	22.6	-114.7	-22.3	2.00	2.00	0.00
	old at 6321.2 N		0,010.0	22.0	-11-7.7	-20.4	2.00	2.00	0.00
6,400.0	16.42	281.14	6,385.6	26.9	-136.6	-27.9	0.00	0.00	0.00
6,500.0	16.42	281.14	6,481.5	32.4	-164.3	-33.6	0.00	0.00	0.00
6,600.0	16.42	281.14	6,577.4	37.8	-192.0	-39.3	0.00	0.00	0.00
6,622.5	16.42	281.14	6,599.0	39.1	-198.3	-40.5	0.00	0.00	0.00
BRUSHY_CA									
6,700.0	16.42	281.14	6,673.3	43.3	-219.8	-44.9	0.00	0.00	0.00
6,800.0	16.42	281.14	6,769.3	48.8	-247.5	-50.6	0.00	0.00	0.00
6,900.0	16.42	281.14	6,865.2	54.2	-275.3	-56.3	0.00	0.00	0.00
7,000.0	16.42	281.14	6,961.1	59.7	-303.0	-62.0	0.00	0.00	0.00
7,100.0	16.42	281.14	7,057.0	65.1	-330.7	-67.6	0.00	0.00	0.00
7,200.0	16.42	281.14	7,152.9	70.6	-358.5	-73.3	0.00	0.00	0.00
7,300.0	16.42	281.14	7,248.9	76.1	-386.2	-79.0	0.00	0.00	0.00
7,400.0	16.42	281.14	7,344.8	81.5	-414.0	-84.6	0.00	0.00	0.00
7,500.0	16.42	281.14	7,440.7	87.0	-441.7	-90.3	0.00	0.00	0.00
7,600.0	16.42	281.14	7,536.6	92.5	-469.4	-96.0	0.00	0.00	0.00
7,700.0	16.42	281.14	7,632.5	97.9	-497.2	-101.7	0.00	0.00	0.00
7,800.0	16.42	281.14	7,728.5	103.4	-524.9	-107.3	0.00	0.00	0.00
7,900.0	16.42	281.14	7,824.4	108.9	-552.7	-113.0	0.00	0.00	0.00
8,000.0	16.42	281.14	7,920.3	114.3	-580.4	-118.7	0.00	0.00	0.00
8,100.0	16.42	281.14	8,016.2	119.8	-608.1	-124.3	0.00	0.00	0.00
8,100.0	16.42	281.14 281.14	8,016.2 8,112.1	125.2	-635.9	-124.3 -130.0	0.00	0.00	0.00
8,300.0	16.42	281.14	8,208.1	130.7	-663.6	-135.7	0.00	0.00	0.00
8,400.0	16.42	281.14	8,304.0	136.2	-691.4	-141.4	0.00	0.00	0.00
8,433.4	16.42	281.14	8,336.0	138.0	-700.6	-143.3	0.00	0.00	0.00
BSPG_LIME	10.12	201.17	5,000.0	.00.0	7 00.0	1 10.0	0.00	0.00	0.00

TVD Reference:

Local Co-ordinate Reference:

Database: EDM 5000.16 Single User Db Company: Avant Operating II, LLC
Project: Lea County, NM (NAD 83)
Site: Quail 16 State Com Pad 1
Well: Quail 16 State Com #501H

Wellbore:

Lea County, NM (NAD 83)

Quail 16 State Com Pad 1

Quail 16 State Com #501H

OH

MD Reference:

North Reference:

Survey Calculation Method:

Design:	Plan 0.1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.0 8,600.0 8,700.0 8,800.0 8,857.7	16.42 16.42 16.42 16.42 16.42	281.14 281.14 281.14 281.14 281.14	8,399.9 8,495.8 8,591.7 8,687.7 8,743.0	141.6 147.1 152.6 158.0 161.2	-719.1 -746.8 -774.6 -802.3 -818.3	-147.0 -152.7 -158.4 -164.1 -167.3	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 0.00
8,900.0 9,000.0 9,063.1 Start Drop -2		281.14 281.14 281.14	8,783.6 8,879.5 8,940.0	163.5 169.0 172.4	-830.1 -857.8 -875.3	-169.7 -175.4 -179.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
9,100.0 9,134.8 200S	15.69 14.99	281.14 281.14	8,975.5 9,009.0	174.4 176.2	-885.3 -894.3	-181.0 -182.9	2.00 2.00	-2.00 -2.00	0.00 0.00
9,200.0 9,300.0 9,400.0 9,500.0 9,600.0	13.69 11.69 9.69 7.69 5.69	281.14 281.14 281.14 281.14 281.14	9,072.2 9,169.8 9,268.0 9,366.9 9,466.2	179.3 183.5 187.1 190.0 192.3	-910.2 -931.7 -949.9 -964.8 -976.2	-186.1 -190.5 -194.2 -197.3 -199.6	2.00 2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00 0.00
9,602.8 FBSG_SD 9,637.0	5.63 4.95	281.14	9,469.0 9,503.0	192.3 192.9	-976.4 -979.5	-199.7 -200.3	2.00	-2.00 -2.00	0.00
300'S 9,700.0 9,800.0 9,884.3	3.69 1.69 0.00	281.14 281.14 0.00	9,565.9 9,665.7 9,750.0	193.9 194.8 195.0	-984.2 -988.8 -990.0	-201.2 -202.2 -202.4	2.00 2.00 2.00	-2.00 -2.00 -2.00	0.00 0.00 0.00
,	old at 9884.3 MI		9,760.0	195.0	-990.0	-202.4	0.00	0.00	0.00
SBSG_SHAL 9,900.0 10,000.0 10,017.8	0.00 0.00 0.00 0.00	0.00 0.00 0.00	9,765.7 9,865.7 9,883.5	195.0 195.0 195.0	-990.0 -990.0 -990.0	-202.4 -202.4 -202.4	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
10,100.0 10,134.4	9.86 13.99	186.57 186.57	9,965.3 9,999.0	188.0 180.9	-990.8 -991.6	-195.4 -188.4	12.00 12.00	12.00 12.00	0.00
SBSG_SD 10,183.6	19.89	186.57	10,046.0	166.7	-993.3	-174.1	12.00	12.00	0.00
500S_UPPEF 10,200.0 10,300.0 10,400.0 10,420.6	21.86 33.86 45.86 48.33	186.57 186.57 186.57 186.57	10,061.3 10,149.6 10,226.2 10,240.2	160.9 114.5 51.0 36.0	-993.9 -999.3 -1,006.6 -1,008.3	-168.3 -122.0 -58.5 -43.6	12.00 12.00 12.00 12.00	12.00 12.00 12.00 12.00	0.00 0.00 0.00 0.00
	te Com #501H F 52.63		10,263.0	8.6	-1,011.5	-16.2	12.00	12.00	0.00
10,500.0 10,600.0 10,700.0	57.86 69.86 81.86	186.57 186.57 186.57	10,287.8 10,331.8 10,356.2	-27.0 -116.0 -212.2	-1,015.6 -1,025.8 -1,036.9	19.4 108.3 204.4	12.00 12.00 12.00	12.00 12.00 12.00	0.00 0.00 0.00
10,771.0	90.00 ! hold at 10767.8 90.00	186.57 3 MD - 500S_LO 186.57	10,361.0 WER 10,361.0	-279.3 -282.5	-1,044.6 -1,045.0	271.5 274.6	12.00 0.00	0.00	0.00
Start DLS 2.0 10,800.0 10,900.0	90.00 90.00 90.00	185.99 183.99	10,361.0 10,361.0	-311.3 -410.9	-1,048.2 -1,056.9	303.4 403.0	2.00 2.00	0.00 0.00	-2.00 -2.00

Database: EDM 5000.16 Single User Db
Company: Avant Operating II, LLC
Project: Lea County, NM (NAD 83)
Site: Quail 16 State Com Pad 1
Well: Quail 16 State Com #501H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
11,000.0	90.00	181.99	10,361.0	-510.8	-1,062.1	502.8	2.00	0.00	-2.00
11,100.0 11,120.8	90.00 90.00	179.99 179.57	10,361.0 10,361.0	-610.8 -631.6	-1,063.8 -1,063.7	602.8 623.6	2.00 2.00	0.00 0.00	-2.00 -2.00
Start 4300.4	hold at 11120.8	MD							
11,200.0	90.00	179.57	10,361.0	-710.8	-1,063.2	702.8	0.00	0.00	0.00
11,300.0 11,400.0	90.00 90.00	179.57 179.57	10,361.0 10,361.0	-810.8 -910.8	-1,062.4 -1,061.7	802.8 902.8	0.00 0.00	0.00 0.00	0.00 0.00
11,500.0	90.00	179.57	10,361.0	-1,010.8	-1,060.9	1,002.8	0.00	0.00	0.00
11,600.0	90.00	179.57	10,361.0	-1,110.8	-1,060.2	1,102.8	0.00	0.00	0.00
11,700.0	90.00	179.57	10,361.0	-1,210.8	-1,059.4	1,202.8	0.00	0.00	0.00
11,800.0	90.00	179.57	10,361.0	-1,310.8	-1,058.7	1,302.8	0.00	0.00	0.00
11,900.0	90.00	179.57	10,361.0	-1,410.8	-1,058.0	1,402.8	0.00	0.00	0.00
12,000.0	90.00	179.57	10,361.0	-1,510.8	-1,057.2	1,502.8	0.00	0.00	0.00
12,100.0	90.00	179.57	10,361.0	-1,610.7	-1,056.5	1,602.8	0.00	0.00	0.00
12,200.0	90.00	179.57	10,361.0	-1,710.7	-1,055.7	1,702.8	0.00	0.00	0.00
12,300.0	90.00	179.57	10,361.0	-1,810.7	-1,055.0	1,802.8	0.00	0.00	0.00
12,400.0	90.00	179.57	10,361.0	-1,910.7	-1,054.2	1,902.8	0.00	0.00	0.00
12,500.0	90.00	179.57	10,361.0	-2,010.7	-1,053.5	2,002.8	0.00	0.00	0.00
12,600.0	90.00	179.57	10,361.0	-2,110.7	-1,052.8	2,102.8	0.00	0.00	0.00
12,700.0	90.00	179.57	10,361.0	-2,210.7	-1,052.0	2,202.8	0.00	0.00	0.00
12,800.0	90.00	179.57	10,361.0	-2,310.7	-1,051.3	2,302.8	0.00	0.00	0.00
12,900.0	90.00	179.57	10,361.0	-2,410.7	-1,050.5	2,402.8	0.00	0.00	0.00
13,000.0	90.00	179.57	10,361.0	-2,510.7	-1,049.8	2,502.8	0.00	0.00	0.00
13,100.0	90.00	179.57	10,361.0	-2,610.7	-1,049.1	2,602.8	0.00	0.00	0.00
13,200.0	90.00	179.57	10,361.0	-2,710.7	-1,048.3	2,702.8	0.00	0.00	0.00
13,300.0	90.00	179.57	10,361.0	-2,810.7	-1,047.6	2,802.8	0.00	0.00	0.00
13,400.0	90.00	179.57	10,361.0	-2,910.7	-1,046.8	2,902.8	0.00	0.00	0.00
13,500.0	90.00	179.57	10,361.0	-3,010.7	-1,046.1	3,002.8	0.00	0.00	0.00
13,600.0	90.00	179.57	10,361.0	-3,110.7	-1,045.3	3,102.8	0.00	0.00	0.00
13,700.0	90.00	179.57	10,361.0	-3,210.7	-1,044.6	3,202.8	0.00	0.00	0.00
13,800.0	90.00	179.57	10,361.0	-3,310.7	-1,043.9	3,302.8	0.00	0.00	0.00
13,900.0	90.00	179.57	10,361.0	-3,410.7	-1,043.1	3,402.8	0.00	0.00	0.00
14,000.0	90.00	179.57	10,361.0	-3,510.7	-1,042.4	3,502.8	0.00	0.00	0.00
14,100.0	90.00	179.57	10,361.0	-3,610.7	-1,041.6	3,602.8	0.00	0.00	0.00
14,200.0	90.00	179.57	10,361.0	-3,710.7	-1,040.9	3,702.8	0.00	0.00	0.00
14,300.0	90.00	179.57	10,361.0	-3,810.7	-1,040.2	3,802.8	0.00	0.00	0.00
14,400.0	90.00	179.57	10,361.0	-3,910.7	-1,039.4	3,902.8	0.00	0.00	0.00
14,500.0	90.00	179.57	10,361.0	-4,010.7	-1,038.7	4,002.8	0.00	0.00	0.00
14,600.0	90.00	179.57	10,361.0	-4,110.7	-1,037.9	4,102.8	0.00	0.00	0.00
14,700.0	90.00	179.57	10,361.0	-4,210.7	-1,037.2	4,202.8	0.00	0.00	0.00
14,800.0	90.00	179.57	10,361.0	-4,310.7	-1,036.4	4,302.8	0.00	0.00	0.00
14,900.0	90.00	179.57	10,361.0	-4,410.7	-1,035.7	4,402.8	0.00	0.00	0.00
15,000.0	90.00	179.57	10,361.0	-4,510.7	-1,035.0	4,502.8	0.00	0.00	0.00
15,100.0	90.00	179.57	10,361.0	-4,610.7	-1,034.2	4,602.8	0.00	0.00	0.00
15,200.0	90.00	179.57	10,361.0	-4,710.7	-1,033.5	4,702.8	0.00	0.00	0.00
15,300.0	90.00	179.57	10,361.0	-4,810.7	-1,032.7	4,802.8	0.00	0.00	0.00
15,400.0	90.00	179.57	10,361.0	-4,910.7	-1,032.0	4,902.8	0.00	0.00	0.00
15,421.2	90.00	179.57	10,361.0	-4,931.9	-1,031.8	4,924.0	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: Quail 16 State Com Pad 1
Well: Quail 16 State Com #501H

Wellbore:

Design:

Quail 16 State Com #501H OH Plan 0.1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

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
Quail 16 State Com #50 - plan misses target - Point	0.00 center by 176	0.00 4usft at 104	10,361.0 20.6usft MD	148.0 (10240.2 TVE	-1,071.2 D, 36.0 N, -100	575,625.80 8.3 E)	775,601.06	32.580148	-103.572797
Quail 16 State Com #50 - plan hits target cen - Point	0.00 ter	0.00	10,361.0	-4,931.9	-1,031.8	570,545.87	775,640.45	32.566185	-103.572787

Casing Points							
	Measured	Vertical			Casing	Hole	
	Depth	Depth			Diameter	Diameter	
	(usft)	(usft)		Name	(")	(")	
	15,408.5	10,361.0	20" Casing		20	24	

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,546.0	1,546.0	RUSTLER			
	1,875.0	1,875.0	SOLADO			
	3,302.0	3,302.0	BASE_OF_SALT			
	3,404.0	3,404.0	YATES			
	3,823.0	3,823.0	SVRV			
	3,991.0	3,991.0	CAPITAN_REEF			
	5,538.0	5,538.0	CHERRY_CNYN			
	6,622.5	6,599.0	BRUSHY_CANYON			
	8,433.4	8,336.0	BSPG_LIME			
	8,857.7	8,743.0	AVALON_B			
	9,134.8	9,009.0	200S			
	9,602.8	9,469.0	FBSG_SD			
	9,637.0	9,503.0	300'S			
	9,894.3	9,760.0	SBSG_SHALE			
	10,134.4	9,999.0	SBSG_SD			
	10,183.6	10,046.0	500S_UPPER			
	10,456.4	10,263.0	SBSG_SD_LWR			
	10,767.8	10,361.0	500S_LOWER			

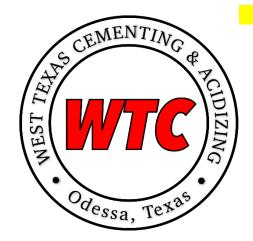
Database: EDM 5000.16 Single User Db Company: Avant Operating II, LLC Project: Lea County, NM (NAD 83)
Site: Quail 16 State Com Pad 1
Well: Quail 16 State Com #501H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
5,500.0	5,500.0	0.0	0.0	KOP - Start Build 2.00
6,321.2	6,310.0	22.6	-114.7	Start 2741.9 hold at 6321.2 MD
9,063.1	8,940.0	172.4	-875.3	Start Drop -2.00
9,884.3	9,750.0	195.0	-990.0	Start 133.5 hold at 9884.3 MD
10,017.8	9,883.5	195.0	-990.0	KOP #2 - Start Build 12.00
10,767.8	10,361.0	-279.3	-1,044.6	LP - Start 3.2 hold at 10767.8 MD
10,771.0	10,361.0	-282.5	-1,045.0	Start DLS 2.00 TFO -90.00
11,120.8	10,361.0	-631.6	-1,063.7	Start 4300.4 hold at 11120.8 MD
15,421.2	10,361.0	-4,931.9	-1,031.8	TD at 15421.2

PROPOSAL#: 250922102434-B



CEMENT PROCEDURE & PROPOSAL

PREPARED FOR:

Mr. Braden Harris EMAIL: braden@avantnr.com PHONE NUMBER: 406-600-3310

Avant Operating II Quail 16 State Com #501H

Lea County, NM

AFE Number: NM1368

Service Point

Odessa

1400 S JBS Parkway Odessa, TX 79766 432-701-8955

Technical Writer

Jonathan Smith jonathan@wtcementers.com 432-701-3719

WTC Representative

Jon Reynolds jon@wtcementers.com 432-257-1234

Disclaimer Notice:

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

This information is presented in good faith, but no warranty is given by and West Texas Computers LLC assumes no liability for advise or recommendations made on

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 11/7/2025 8:32 VERSION: v0.29d

Surface



PROPOSAL#: 25092

	WELL INFORMATION	
MUD	8.4# Fresh Water	
PREVIOUS PIPE	20" 94# CSG to 120	
OPEN HOLE	14.75" OH to 1571	
CASING/INJECTION	10.75" 40.5# J-55/LTC to 1571	
MD	1571	
EST BHST/BHCT	93-F / 86-F (0.8-F/100-FT)	
NOTES Standby charges start at	ter WTC has been on location for more than 4-hrs.	

		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	1137	14.75	10.75	50%	0.1486	169.0
Tail	314	14.75	10.75	20%	0.1189	37.3
SHOE JOINT	40	10.75	10.05		0.0981	3.9

FLUIDS

SPACER

Fresh Water

VOLUME 20-bbl

	Lead
	Lead

35% B_Poz+65% Class C+6% Gel+5% SALT+0.25PPS Pol-E-Flake+0.5PPS TCA100

VOLUME 585-SX Slurry Volume: 198-bbls **DENSITY** Mix Water Required: 142-bbls 12.8-ppg 1.9-cf/sx YIELD MIX WATER 10.19-gps TOP OF CEMENT Surface 50% **EXCESS**

Surface



PROPOSAL#: 250922102434-B

		PROPOSAL#: 250922102434-B
	Tail	
	100% Class C+0.5% CaCl2+0.25PPS T	TCA100
VOLUME	175-SX	Slurry Volume: 41.5-bbls
DENSITY	14.8-ppg	Mix Water Required: 27-bbls
YIELD	1.33-cf/sx	
MIX WATER	6.33-gps	
TOP OF CEMENT	1257-ft	
EXCESS	20%	
	DISPLACEMENT	
	Displacement	
VOLUME	150.2-bbl	

Multi-Stage Intermediate



PROPOSAL#: 250922102434-E

		PROPOSAL#. 250522102454-B
	WELL INFORMATION	
MUD	10# Brine	
PREVIOUS PIPE	10.75" 40.5# CSG to 1571	
OPEN HOLE	9.875" OH to 5438	
CASING/INJECTION	8.625" 32# L-80 HC BK to 5438	
MD	5438	
EST BHST/BHCT	124-F / 108-F (0.8-F/100-FT)	
DV TOOL	3800	
EST BHST/BHCT STG2	111-F / 98-F (0.8-F/100-FT)	
NOTES Standby charges start after	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)
Stage 1 Lead	1571	10.05	8.625		0.0258	40.6
Stage 1 Lead	2779	9.875	8.625	20%	0.0270	74.9
Stage 1 Tail	1088	9.875	8.625	20%	0.0270	29.3
Stage 2 Lead	1571	10.05	8.625		0.0258	40.6
Stage 2 Lead	1229	9.875	8.625	106%	0.0463	56.9
Stage 2 Tail	1000	9.875	8.625	0%	0.0225	22.5
SHOE JOINT	40	8.625	7.921		0.0609	2.4
			FLUIDS			

SPACER

Fresh Water

VOLUME 25-bbl

	Stage 1 Lead	
35% M_Poz+6	5% Class C+4% Gel+5% SALT+0.1% SMS+0.15% R-130	0+0.25PPS Pol-E-Flake+0.5PPS TCA100
VOLUME	370-SX	Slurry Volume: 116.6-bbls
DENSITY	12.8-ppg	Mix Water Required: 81-bbls
YIELD	1.77-cf/sx	
MIX WATER	9.19-gps	
TOP OF CEMENT	Surface	
EXCESS	20%	

Multi-Stage Intermediate



PROPOSAL#: 250922102434-E

C+000	1	Ta	н
Stage	ъ.	Ta	ш
6 -			

100% Class C+0.005GPS NoFoam V1A

VOLUME 135-SX Slurry Volume: 32-bbls
DENSITY 14.8-ppg Mix Water Required: 21-bbls

YIELD 1.33-cf/sx
MIX WATER 6.32-gps
TOP OF CEMENT 4350-ft
EXCESS 20%

DISPLACEMENT

Displacement

VOLUME 329-bbl

SPACER

Fresh Water

VOLUME 20-bbl

Stage 2 Lead

35% M_Poz+65% Class C+4% Gel+5% SALT+0.1% SMS+0.25PPS Pol-E-Flake+0.5PPS TCA100

VOLUME315-SXSlurry Volume: 98.7-bblsDENSITY12.8-ppgMix Water Required: 69-bbls

YIELD 1.76-cf/sx
MIX WATER 9.18-gps
TOP OF CEMENT Surface
EXCESS 106%

Stage 2 Tail

100% Class C+0.005GPS NoFoam V1A

VOLUME100-SXSlurry Volume: 23.7-bblsDENSITY14.8-ppgMix Water Required: 16-bbls

YIELD 1.33-cf/sx
MIX WATER 6.32-gps
TOP OF CEMENT 2800-ft
EXCESS 0%

DISPLACEMENT

Displacement

VOLUME 231.6-bbl

Production



PROPOSAL#: 250922102434-B

	<u> </u>	
	WELL INFORMATION	
MUD	9.2# OBM	
PREVIOUS PIPE	8.625" 32# CSG to 5438	
OPEN HOLE	7.875" OH to 15359	
CASING/INJECTION	5.5" 20# P-110 HC GBCD to 15359	
MD	15359	
TVD	10361	
EST BHST/BHCT	169-F / 169-F (0.85-F/100-FT)	
КОР	10018	
NOTES Standby charges start aft	er 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	5438	7.921	5.5		0.0316	171.6
Lead	4580	7.875	5.5	20%	0.0370	169.6
Tail	5341	7.875	5.5	20%	0.0370	197.8
SHOE JOINT	80	5.5	4.778		0.0222	1.8

FLUIDS

SPACER

Wt. Spacer 37.97GPB Water+8PPB PolyScrub 4320+73.68PPB Barite+1GPB HoleScrub 4311+1PPB R-1300+1PPB TCA100

VOLUME 40-bbl DENSITY 9.7-ppg

Lead

100% ProLite+5PPS Plexcrete STE+2% SMS+0.65% R-1300+0.2% FL-24+3PPS Gilsonite+0.5PPS TCA100

VOLUME 565-SX Slurry Volume: 341.1-bbls
DENSITY 10.7-ppg Mix Water Required: 285-bbls
YIELD 3.39-cf/sx
MIX WATER 21.13-gps
TOP OF CEMENT Surface
EXCESS 20%

Production



PROPOSAL#: 250922102434-B

		PROPOSAL#: 250922102434-B
	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	925-SX	Slurry Volume: 201-bbls
DENSITY	14.5-ppg	Mix Water Required: 117-bbls
YIELD	1.22-cf/sx	
MIX WATER	5.3-gps	
TOP OF CEMENT	10018-ft	
EXCESS	20%	
	DISPLACEMENT	
	Fresh Water+ 0.25GPT Plexcide 24L+1G	PT Corplex
VOLUME	338.8-bbl	
DENSITY	8.34-ppg	

		CHEMICAL DESCRIPTIONS
CHEMICAL NAME	CODE	DESCRIPTION
CHEMICALE IVI	GO D L	DESCRIPTION
B_Poz	WTC228	Poz - Fly Ash, Extender
Class H	WTC101	API Cement
Class C	WTC100	API Cement
M_Poz	WTC280	Poz - Fly Ash, Extender
ProLite		Blended Based Cement
Plexcrete SFA	WTC129	Cement Strength Enhancer
Gel	WTC102	Extender
GB-52	WTC008	Microspheres, Extender
Micro Shell	WTC209	Cement Strength Enhancer
WTC1	WTC250	Extender
CS-9	WTC285	Cement Strength Enhancer
Plexcrete STE	WTC127	Cement Strength Enhancer
CSE-NP	WTC236	Cement Strength Enhancer
Gypsum	WTC111	Free Water Control, Extender
CaCl2	WTC112	Accelerator
SMS	WTC115	Free Water Control, Extender
RCKCAS-100	WTC276	Free Water Control, Anti-Settling Agent
R-1300	WTC270	Low Temperature Retarder
CR-150	WTC275	Lignosulfonate Retarder
CRT-201	WTC278	Lignosulfonate Retarder
CD-22	WTC270	Dispersant, Friction Reducer
CFL-312	WTC250	Fluid Loss and Gas Migration Control
FL-24	WTC203	Fluid Loss (polymers/copolymers - 300-F max)
FL-17	WTC130	Fluid Loss and Gas Migration Control (400-F max)
MagBond	WTC130 WTC271	Expanding Agent
Gilsonite	WTC271	Premium Lost Circulation Material, Free Water Control
Pol-E-Flake	WTC106	Lost Circulation Material
Web Seal	WTC100 WTC133	Premium Fiber Lost Circulation Material
TCA100	WTC133	Powdered Defoamer
NoFoam V1A	WTC284 WTC105	Liquid Defoamer
Water	WICIOS	Fresh Water
PolyScrub 4320	WTC232	Spacer Gelling Agent
RCKCAS-100	WTC232 WTC276	Free Water Control, Anti-Settling Agent
Barite	WTC276 WTC116	Weighting Agent
HoleScrub 4311	WTC110 WTC281	Surfactant
HoleScrub 4305	WTC281 WTC213	Surfactant
Soda Ash	WTC213 WTC164	pH Control
R-1300	WTC104 WTC201	Low Temperature Retarder
RCKCAS-100	WTC201 WTC276	Free Water Control, Anti-Settling Agent
Sugar	WTC276 WTC119	Retarder
TCA100	WTC119 WTC284	Powdered Defoamer
Plexcide 24L	WTC284 WTC166	Biocide
Corplex	WTC166 WTC134	Corrosion Inhibitor
Clay Max	WTC134 WTC096	KCL Substitute
Zone Seal	WTC096 WTC207	Premium Lost Circulation Material
Zone Seal	VV 1 C 2 U /	Fremium Lost Circulation Material

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: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square 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.

from a single well pad or connected to a central delivery point.									
Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated			
				Oil BBL/D	Gas MCF/D	Produced Water			
						BBL/D			
Quail 16 State Com 201H		C-16-T20S-R34E	250FNL/1360FWL	1200 BBL/D	3600 MCF/D	6000 BBL/D			
Quail 16 State Com 202H		C-16-T20S-R34E	250FNL/1460FWL	1200 BBL/D	3600 MCF/D	6000 BBL/D			
Quail 16 State Com 203H		C-16-T20S-R34E	250FNL/1540FWL	1200 BBL/D	3600 MCF/D	6000 BBL/D			
Quail 16 State Com 301H		C-16-T20S-R34E	250FNL/1380FWL	950 BBL/D	2000 MCF/D	6650 BBL/D			
Quail 16 State Com 302H		C-16-T20S-R34E	250FNL/1500FWL	950 BBL/D	2000 MCF/D	6650 BBL/D			
Quail 16 State Com 303H		C-16-T20S-R34E	250FNL/1560FWL	950 BBL/D	2000 MCF/D	6650 BBL/D			
Quail 16 State Com 501H		C-16-T20S-R34E	250FNL/1400FWL	1400 BBL/D	2400 MCF/D	7500 BBL/D			
Quail 16 State Com 502H		C-16-T20S-R34E	250FNL/1480FWL	1400 BBL/D	2400 MCF/D	7500 BBL/D			
Quail 16 State Com 503H		C-16-T20S-R34E	250FNL/1520FWL	1400 BBL/D	2400 MCF/D	7500 BBL/D			
Quail 16 State Com 751H		C-16-T20S-R34E	250FNL/1420FWL	1250 BBL/D	2600 MCF/D	7500 BBL/D			
Quail 16 State Com 752H		C-16-T20S-R34E	400FNL/1499FWL	1250 BBL/D	2600 MCF/D	7500 BBL/D			
Quail 16 State Com 753H		C-16-T20S-R34E	400FNL/1559FWL	1250 BBL/D	2600 MCF/D	7500 BBL/D			
Quail 16 State Com 801H		C-16-T20S-R34E	250FNL/1440FWL	1200 BBL/D	2500 MCF/D	6000 BBL/D			
Quail 16 State Com 802H		C-16-T20S-R34E	400FNL/1519FWL	1200 BBL/D	2500 MCF/D	6000 BBL/D			
Quail 16 State Com 803H		C-16-T20S-R34E	400FNL/1539FWL	1200 BBL/D	2500 MCF/D	6000 BBL/D			
TUC I IDII DIII	0 11.4.6	C. CTD		Fa	10.15.05.0(D)(1)	373.64.63			

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	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Quail 16 State Com 201H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 202H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 203H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 301H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 302H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 303H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 501H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 502H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 503H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 751H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 752H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 753H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 801H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 802H		11/15/2025	12/28/2025	05/01/2026	07/01/2026	07/01/2026
Quail 16 State Com 803H		11/15/2025	12/28/2025	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.

Page 1 of 4

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	n \square will \square will not have	e capacity to gather 100%	of the anticipated natural gas
production volume from the well prior to the date of fi	rst production.		

XIII.	Line Pressure.	Operator	\square does \square	does not a	inticipate th	at its existi	ng well(s)) connecte	d to the	e same s	egment,	or portio	n, of th
natura	l gas gathering	system(s)	described	above will	continue to	meet antic	ipated inc	creases in	line pre	essure ca	used by	the new	well(s).

							increased		

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information $_1$	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 in	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.

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:

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct

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.