District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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 361809

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

1. Operator Name and Address	2. OGRID Number
Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	330396
	3. API Number 30-015-54872

4. Property Code	5. Property Name	6. Well No.
335623	LITTLE BETTY 20	702H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	20	21S	28E		1260	N	150	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	20	21S	28E	E	1430	N	100	W	Eddy

9. Pool Information

LONE TREE DRAW; WOLFCAMP	97208

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3223
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	14420	Wolfcamp		5/2/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	40.5	400	175	0
Int1	9.875	7.625	29.7	7697	950	0
Prod	6.75	5.5	20	14420	720	0

Casing/Cement Program: Additional Comments

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 further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

OIL CONSERVATION DIVISION

Printed Name:	Electronically filed by Sarah Ferreyros	Approved By:	Ward Rikala
Title:	Director of Regulatory	Title:	
Email Address:	sarah@avantnr.com	Approved Date: 3/26/2024	Expiration Date: 3/26/2026
Date:	3/19/2024 Phone: 720-854-9020	Conditions of Approval Attached	

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DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-54872	97208	LONE TREE DRAW;WOLFCAMP

[4] Property Code	[5] Property Name	[6] Well Number
335623	LITTLE BETTY 20	702H

[7] OGRID No.	[8] Operator Name	[9] Elevation
330396	AVANT OPERATING, LLC	3223

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	20	21 S	28 E		1260	NORTH	150	EAST	EDDY

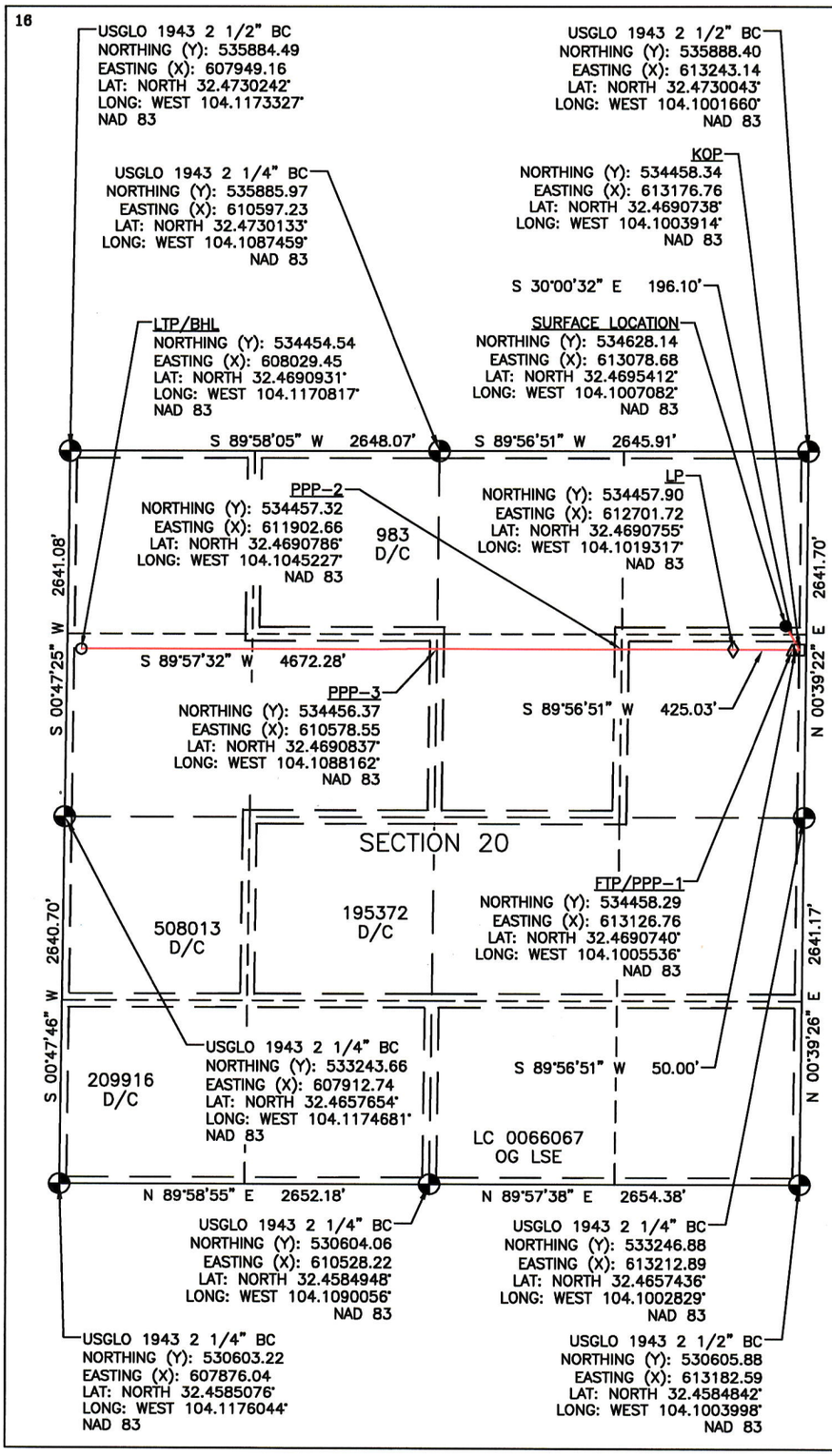
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	20	21 S	28 E		1430	NORTH	100	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
SECTION 20: TOTAL: 480 Ac.			

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

[16]



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

1/8/2023
Signature Date

Meghan Twele
Printed Name

mtwele@outlook.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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.

9/17/23
Date of Survey

Signature and Seal of Professional Surveyor:

JOHN A VUKONICH
NEW MEXICO
14831
PROFESSIONAL SURVEYOR

12/20/2023

Certificate Number 14831

LEGEND:
- ● = SURFACE LOCATION (SHL)
- □ = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ◊ = LANDING POINT (LP)
- ○ = LTP/BHL
- ⊕ = FOUND MONUMENT

FOOTAGES		
SHL	1260' FNL	150' FEL
KOP	1430' FNL	50' FEL
FTP/PPP-1	1430' FNL	100' FEL
LP	1430' FNL	525' FEL
PPP-2	1430' FNL	1324' FEL
PPP-3	1430' FNL	2648' FEL
LTP/BHL	1430' FNL	100' FWL

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

Form APD Conditions

Permit 361809

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Avant Operating, LLC [330396] 1515 Wynkoop Street Denver, CO 80202	30-015-54872
	Well: LITTLE BETTY 20 #702H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	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
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing
ward.rikala	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
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

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, LLC **OGRID:** 330396 **Date:** 03/15/2024

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
[redacted]						

[redacted]

[redacted]						
[redacted]						

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
[redacted]			

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.

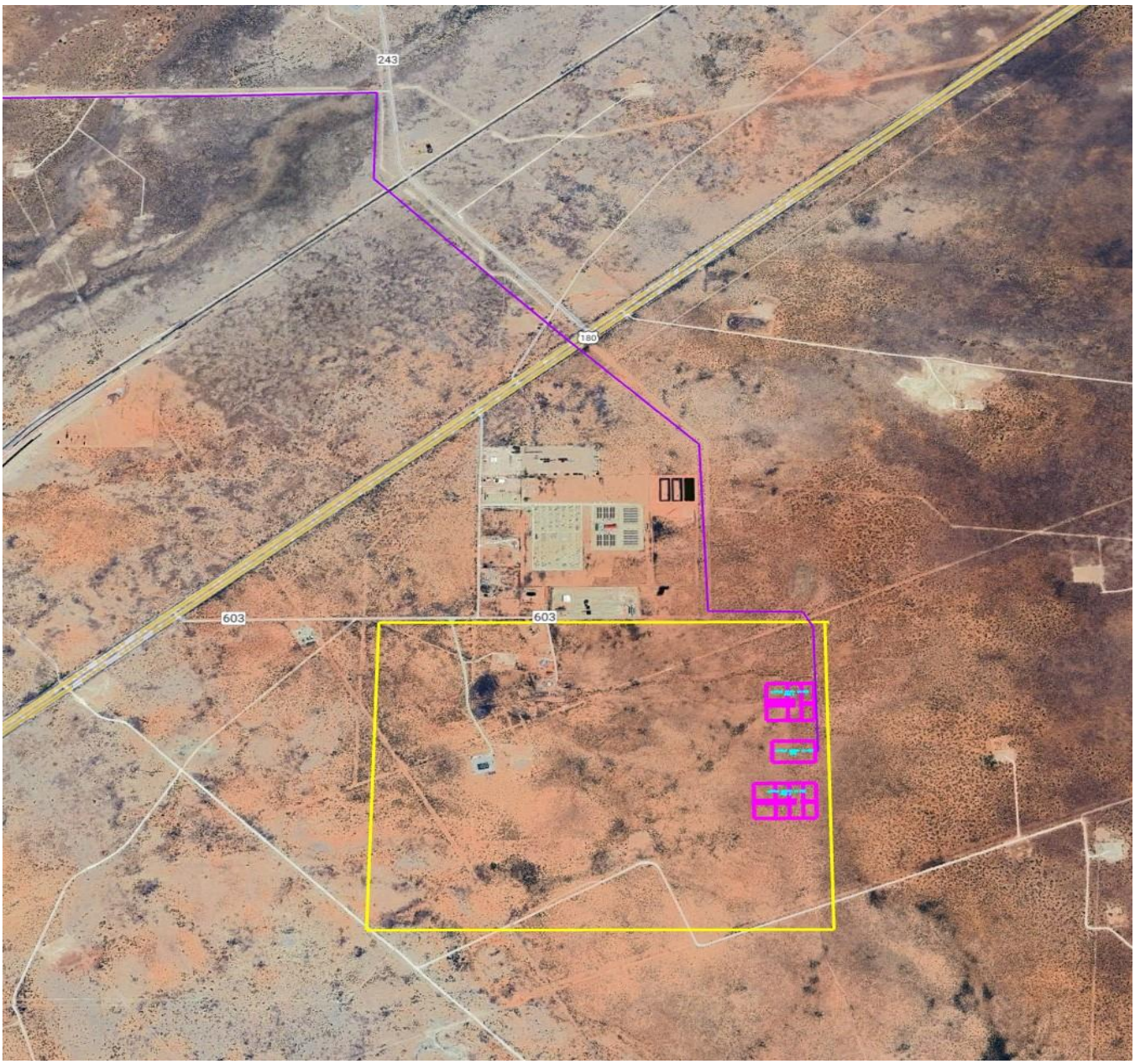
2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural 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: VP of Geosciences
E-mail Address: John@avantnr.com
Date: 03/15/24
Phone: 678-988-6644

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Map



Line Pressure Plan

When we start to see an increase in line pressure, we will communicate with our current Gas Midstream company to see how we can reduce the line pressure to ensure they can handle the production. We will monitor closely and make facility adjustments to keep line pressures down. If we continue to see downstream issues with high line pressures, we will look at alternative options to capture the excess gas the pipeline cannot handle to keep line pressures low. Building a relationship with the Gas Midstream company will be a priority to ensure both parties are on the same page when new wells are coming online in order to keep line pressures low for any upgrades that need to be in place before they come online.

Avant Operating, 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. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, Avant will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications. 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

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 #

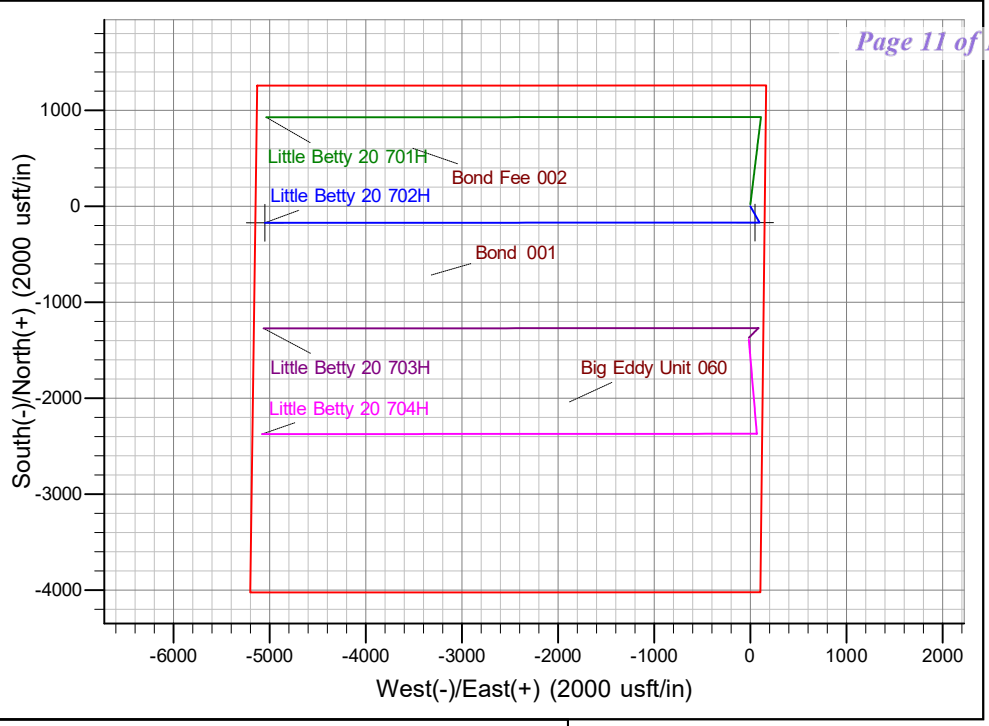
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

AVANT NATURAL RESOURCES

WELL DETAILS: Little Betty 20 702H					
Ground Elev: 3223.0 KB: 3249.5					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	534628.16	613078.69	32.4695412°N	104.1007082°W

PROJECT DETAILS: Eddy 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

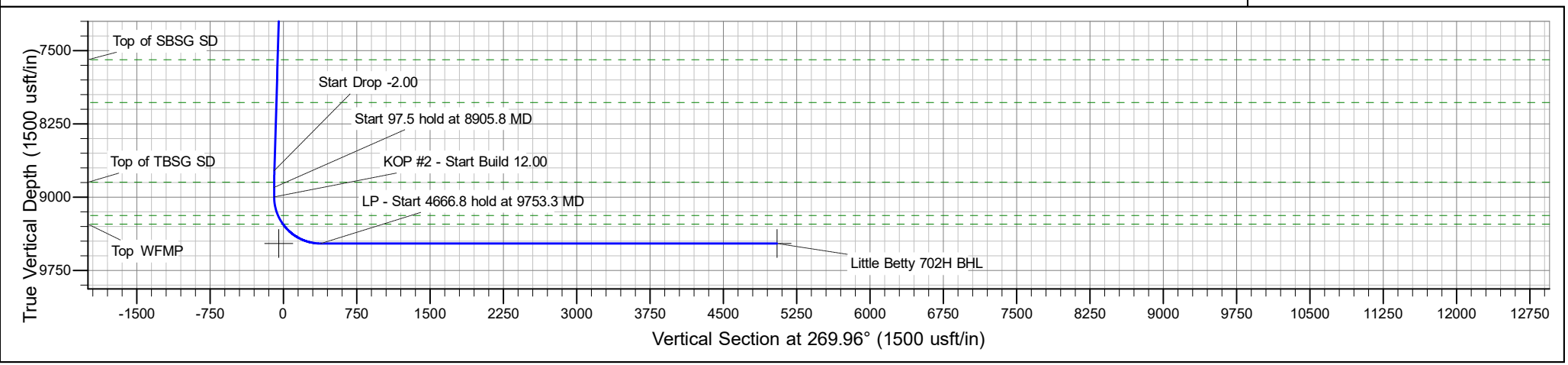


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	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	5672.7	3.45	150.80	5672.6	-4.5	2.5	2.00	150.80	-2.5	Start 3060.4 hold at 5672.7 MD
4	8733.1	3.45	150.80	8727.4	-165.5	92.5	0.00	0.00	-92.3	Start Drop -2.00
5	8905.8	0.00	0.00	8900.0	-170.0	95.0	2.00	180.00	-94.9	Start 97.5 hold at 8905.8 MD
6	9003.3	0.00	0.00	8997.5	-170.0	95.0	0.00	0.00	-94.9	KOP #2 - Start Build 12.00
7	9753.3	90.00	269.96	9475.0	-170.3	-382.5	12.00	269.96	382.6	LP - Start 4666.8 hold at 9753.3 MD
8	14420.1	90.00	269.96	9475.0	-173.6	-5049.2	0.00	0.00	5049.4	TD at 14420.1

Azimuths to Grid North
True North: -0.12°
Magnetic North: 8.70°

Magnetic Field
Strength: 49508.1nT
Dip Angle: 60.57°
Date: 12/31/2004
Model: IGRF2000



Avant Operating, LLC

Eddy County, NM (NAD 83)
Little Betty 20 Pad 1
Little Betty 20 702H

OH

Plan: Plan 0.1

Standard Planning Report

26 February, 2024

AVANT NATURAL RESOURCES

Planning Report

AVANT NATURAL RESOURCES

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Little Betty 20 702H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3249.5usft (3249.5)
Project:	Eddy County, NM (NAD 83)	**MD Reference:**	WELL @ 3249.5usft (3249.5)
Site:	Little Betty 20 Pad 1	**North Reference:**	Grid
Well:	Little Betty 20 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Project Eddy 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 Little Betty 20 Pad 1

Site Position:		**Northing:**	534,648.28 usft	**Latitude:**	32.4695965°N
From:	Lat/Long	**Easting:**	613,078.96 usft	**Longitude:**	104.1007072°W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Little Betty 20 702H

Well Position	**+N/-S**	0.0 usft	**Northing:**	534,628.16 usft	**Latitude:**	32.4695412°N
	+E/-W	0.0 usft	**Easting:**	613,078.70 usft	**Longitude:**	104.1007082°W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,223.0 usft
Grid Convergence:		0.12 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.83	60.57	49,508.09249907

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	269.96

Plan Survey Tool Program **Date** 2/26/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	14,419.7	Plan 0.1 (OH)	B001Mb_MWD+HRGM OWSG MWD + HRGM	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,672.7	3.45	150.80	5,672.6	-4.5	2.5	2.00	2.00	0.00	150.80	
8,733.1	3.45	150.80	8,727.4	-165.5	92.5	0.00	0.00	0.00	0.00	
8,905.8	0.00	0.00	8,900.0	-170.0	95.0	2.00	-2.00	0.00	180.00	
9,003.3	0.00	0.00	8,997.5	-170.0	95.0	0.00	0.00	0.00	0.00	
9,753.3	90.00	269.96	9,475.0	-170.3	-382.5	12.00	12.00	0.00	269.96	
14,420.1	90.00	269.96	9,475.0	-173.6	-5,049.2	0.00	0.00	0.00	0.00	Little Betty 702H BHL

AVANT NATURAL RESOURCES

Planning Report

AVANT NATURAL RESOURCES

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Little Betty 20 702H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3249.5usft (3249.5)
Project:	Eddy County, NM (NAD 83)	**MD Reference:**	WELL @ 3249.5usft (3249.5)
Site:	Little Betty 20 Pad 1	**North Reference:**	Grid
Well:	Little Betty 20 702H	**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
1,181.0	0.00	0.00	1,181.0	0.0	0.0	0.0	0.00	0.00	0.00
CAPITAN REEF									
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
1,600.0	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
1,900.0	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
2,993.0	0.00	0.00	2,993.0	0.0	0.0	0.0	0.00	0.00	0.00
CHERRY CANYON									
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
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
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
3,900.0	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
4,100.0	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
4,385.0	0.00	0.00	4,385.0	0.0	0.0	0.0	0.00	0.00	0.00
BRUSHY CANYON									
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

AVANT NATURAL RESOURCES

Planning Report

AVANT NATURAL RESOURCES

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Little Betty 20 702H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3249.5usft (3249.5)
Project:	Eddy County, NM (NAD 83)	**MD Reference:**	WELL @ 3249.5usft (3249.5)
Site:	Little Betty 20 Pad 1	**North Reference:**	Grid
Well:	Little Betty 20 702H	**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)
4,700.0	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 Build 2.00									
5,600.0	2.00	150.80	5,600.0	-1.5	0.9	-0.9	2.00	2.00	0.00
5,672.7	3.45	150.80	5,672.6	-4.5	2.5	-2.5	2.00	2.00	0.00
Start 3060.4 hold at 5672.7 MD									
5,690.1	3.45	150.80	5,690.0	-5.5	3.1	-3.0	0.00	0.00	0.00
Top of BSGL									
5,700.0	3.45	150.80	5,699.8	-6.0	3.3	-3.3	0.00	0.00	0.00
5,800.0	3.45	150.80	5,799.7	-11.2	6.3	-6.3	0.00	0.00	0.00
5,900.0	3.45	150.80	5,899.5	-16.5	9.2	-9.2	0.00	0.00	0.00
6,000.0	3.45	150.80	5,999.3	-21.8	12.2	-12.1	0.00	0.00	0.00
6,100.0	3.45	150.80	6,099.1	-27.0	15.1	-15.1	0.00	0.00	0.00
6,200.0	3.45	150.80	6,198.9	-32.3	18.0	-18.0	0.00	0.00	0.00
6,300.0	3.45	150.80	6,298.8	-37.5	21.0	-20.9	0.00	0.00	0.00
6,400.0	3.45	150.80	6,398.6	-42.8	23.9	-23.9	0.00	0.00	0.00
6,500.0	3.45	150.80	6,498.4	-48.0	26.8	-26.8	0.00	0.00	0.00
6,600.0	3.45	150.80	6,598.2	-53.3	29.8	-29.7	0.00	0.00	0.00
6,700.0	3.45	150.80	6,698.0	-58.6	32.7	-32.7	0.00	0.00	0.00
6,800.0	3.45	150.80	6,797.8	-63.8	35.7	-35.6	0.00	0.00	0.00
6,879.3	3.45	150.80	6,877.0	-68.0	38.0	-37.9	0.00	0.00	0.00
Top of FBSG SD									
6,900.0	3.45	150.80	6,897.7	-69.1	38.6	-38.6	0.00	0.00	0.00
7,000.0	3.45	150.80	6,997.5	-74.3	41.5	-41.5	0.00	0.00	0.00
7,059.6	3.45	150.80	7,057.0	-77.5	43.3	-43.2	0.00	0.00	0.00
Top of SBSG Shale									
7,100.0	3.45	150.80	7,097.3	-79.6	44.5	-44.4	0.00	0.00	0.00
7,200.0	3.45	150.80	7,197.1	-84.8	47.4	-47.4	0.00	0.00	0.00
7,300.0	3.45	150.80	7,296.9	-90.1	50.4	-50.3	0.00	0.00	0.00
7,400.0	3.45	150.80	7,396.8	-95.4	53.3	-53.2	0.00	0.00	0.00
7,500.0	3.45	150.80	7,496.6	-100.6	56.2	-56.2	0.00	0.00	0.00
7,596.6	3.45	150.80	7,593.0	-105.7	59.1	-59.0	0.00	0.00	0.00
Top of SBSG SD									
7,600.0	3.45	150.80	7,596.4	-105.9	59.2	-59.1	0.00	0.00	0.00
7,700.0	3.45	150.80	7,696.2	-111.1	62.1	-62.0	0.00	0.00	0.00
7,800.0	3.45	150.80	7,796.0	-116.4	65.0	-65.0	0.00	0.00	0.00
7,900.0	3.45	150.80	7,895.9	-121.7	68.0	-67.9	0.00	0.00	0.00
8,000.0	3.45	150.80	7,995.7	-126.9	70.9	-70.8	0.00	0.00	0.00
8,036.4	3.45	150.80	8,032.0	-128.8	72.0	-71.9	0.00	0.00	0.00
Top of TBSG Carb									
8,100.0	3.45	150.80	8,095.5	-132.2	73.9	-73.8	0.00	0.00	0.00
8,200.0	3.45	150.80	8,195.3	-137.4	76.8	-76.7	0.00	0.00	0.00
8,300.0	3.45	150.80	8,295.1	-142.7	79.7	-79.6	0.00	0.00	0.00
8,400.0	3.45	150.80	8,394.9	-147.9	82.7	-82.6	0.00	0.00	0.00
8,500.0	3.45	150.80	8,494.8	-153.2	85.6	-85.5	0.00	0.00	0.00
8,600.0	3.45	150.80	8,594.6	-158.5	88.6	-88.4	0.00	0.00	0.00

AVANT NATURAL RESOURCES

Planning Report

AVANT NATURAL RESOURCES

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Little Betty 20 702H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3249.5usft (3249.5)
Project:	Eddy County, NM (NAD 83)	**MD Reference:**	WELL @ 3249.5usft (3249.5)
Site:	Little Betty 20 Pad 1	**North Reference:**	Grid
Well:	Little Betty 20 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,700.0	3.45	150.80	8,694.4	-163.7	91.5	-91.4	0.00	0.00	0.00
8,733.1	3.45	150.80	8,727.4	-165.5	92.5	-92.3	0.00	0.00	0.00
Start Drop -2.00									
8,800.0	2.12	150.80	8,794.3	-168.3	94.0	-93.9	2.00	-2.00	0.00
8,853.8	1.04	150.80	8,848.0	-169.6	94.8	-94.7	2.00	-2.00	0.00
Top of TBSG SD									
8,900.0	0.12	150.80	8,894.2	-170.0	95.0	-94.9	2.00	-2.00	0.00
8,905.8	0.00	0.00	8,900.0	-170.0	95.0	-94.9	2.00	-2.00	0.00
Start 97.5 hold at 8905.8 MD									
9,000.0	0.00	0.00	8,994.2	-170.0	95.0	-94.9	0.00	0.00	0.00
9,003.3	0.00	0.00	8,997.5	-170.0	95.0	-94.9	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
9,100.0	11.60	269.96	9,093.6	-170.0	85.2	-85.1	12.00	12.00	0.00
9,199.2	23.51	269.96	9,188.0	-170.0	55.4	-55.2	12.00	12.00	0.00
Top of basal TBSG Target									
9,200.0	23.60	269.96	9,188.7	-170.0	55.1	-54.9	12.00	12.00	0.00
9,300.0	35.60	269.96	9,275.5	-170.1	5.7	-5.6	12.00	12.00	0.00
9,300.6	35.68	269.96	9,276.0	-170.1	5.4	-5.3	12.00	12.00	0.00
Top WFMP									
9,400.0	47.60	269.96	9,350.1	-170.1	-60.5	60.7	12.00	12.00	0.00
Little Betty 20 702H FTP (copy)									
9,500.0	59.60	269.96	9,409.4	-170.2	-140.9	141.0	12.00	12.00	0.00
9,600.0	71.60	269.96	9,450.6	-170.2	-231.8	231.9	12.00	12.00	0.00
9,700.0	83.60	269.96	9,472.0	-170.3	-329.3	329.4	12.00	12.00	0.00
9,753.3	90.00	269.96	9,475.0	-170.3	-382.5	382.6	12.00	12.00	0.00
LP - Start 4666.8 hold at 9753.3 MD									
9,800.0	90.00	269.96	9,475.0	-170.4	-429.2	429.3	0.00	0.00	0.00
9,900.0	90.00	269.96	9,475.0	-170.4	-529.2	529.3	0.00	0.00	0.00
10,000.0	90.00	269.96	9,475.0	-170.5	-629.2	629.3	0.00	0.00	0.00
10,100.0	90.00	269.96	9,475.0	-170.6	-729.2	729.3	0.00	0.00	0.00
10,200.0	90.00	269.96	9,475.0	-170.7	-829.2	829.3	0.00	0.00	0.00
10,300.0	90.00	269.96	9,475.0	-170.7	-929.2	929.3	0.00	0.00	0.00
10,400.0	90.00	269.96	9,475.0	-170.8	-1,029.2	1,029.3	0.00	0.00	0.00
10,500.0	90.00	269.96	9,475.0	-170.9	-1,129.2	1,129.3	0.00	0.00	0.00
10,600.0	90.00	269.96	9,475.0	-170.9	-1,229.2	1,229.3	0.00	0.00	0.00
10,700.0	90.00	269.96	9,475.0	-171.0	-1,329.2	1,329.3	0.00	0.00	0.00
10,800.0	90.00	269.96	9,475.0	-171.1	-1,429.2	1,429.3	0.00	0.00	0.00
10,900.0	90.00	269.96	9,475.0	-171.1	-1,529.2	1,529.3	0.00	0.00	0.00
11,000.0	90.00	269.96	9,475.0	-171.2	-1,629.2	1,629.3	0.00	0.00	0.00
11,100.0	90.00	269.96	9,475.0	-171.3	-1,729.2	1,729.3	0.00	0.00	0.00
11,200.0	90.00	269.96	9,475.0	-171.4	-1,829.2	1,829.3	0.00	0.00	0.00
11,300.0	90.00	269.96	9,475.0	-171.4	-1,929.2	1,929.3	0.00	0.00	0.00
11,400.0	90.00	269.96	9,475.0	-171.5	-2,029.2	2,029.3	0.00	0.00	0.00
11,500.0	90.00	269.96	9,475.0	-171.6	-2,129.2	2,129.3	0.00	0.00	0.00
11,600.0	90.00	269.96	9,475.0	-171.6	-2,229.2	2,229.3	0.00	0.00	0.00
11,700.0	90.00	269.96	9,475.0	-171.7	-2,329.2	2,329.3	0.00	0.00	0.00
11,800.0	90.00	269.96	9,475.0	-171.8	-2,429.2	2,429.3	0.00	0.00	0.00
11,900.0	90.00	269.96	9,475.0	-171.9	-2,529.2	2,529.3	0.00	0.00	0.00
12,000.0	90.00	269.96	9,475.0	-171.9	-2,629.2	2,629.3	0.00	0.00	0.00
12,100.0	90.00	269.96	9,475.0	-172.0	-2,729.2	2,729.3	0.00	0.00	0.00
12,200.0	90.00	269.96	9,475.0	-172.1	-2,829.2	2,829.3	0.00	0.00	0.00
12,300.0	90.00	269.96	9,475.0	-172.1	-2,929.2	2,929.3	0.00	0.00	0.00
12,400.0	90.00	269.96	9,475.0	-172.2	-3,029.2	3,029.3	0.00	0.00	0.00

AVANT NATURAL RESOURCES

Planning Report

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Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Little Betty 20 702H
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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)
12,500.0	90.00	269.96	9,475.0	-172.3	-3,129.2	3,129.3	0.00	0.00	0.00
12,600.0	90.00	269.96	9,475.0	-172.3	-3,229.2	3,229.3	0.00	0.00	0.00
12,700.0	90.00	269.96	9,475.0	-172.4	-3,329.2	3,329.3	0.00	0.00	0.00
12,800.0	90.00	269.96	9,475.0	-172.5	-3,429.2	3,429.3	0.00	0.00	0.00
12,900.0	90.00	269.96	9,475.0	-172.6	-3,529.2	3,529.3	0.00	0.00	0.00
13,000.0	90.00	269.96	9,475.0	-172.6	-3,629.2	3,629.3	0.00	0.00	0.00
13,100.0	90.00	269.96	9,475.0	-172.7	-3,729.2	3,729.3	0.00	0.00	0.00
13,200.0	90.00	269.96	9,475.0	-172.8	-3,829.2	3,829.3	0.00	0.00	0.00
13,300.0	90.00	269.96	9,475.0	-172.8	-3,929.2	3,929.3	0.00	0.00	0.00
13,400.0	90.00	269.96	9,475.0	-172.9	-4,029.2	4,029.3	0.00	0.00	0.00
13,500.0	90.00	269.96	9,475.0	-173.0	-4,129.2	4,129.3	0.00	0.00	0.00
13,600.0	90.00	269.96	9,475.0	-173.1	-4,229.2	4,229.3	0.00	0.00	0.00
13,700.0	90.00	269.96	9,475.0	-173.1	-4,329.2	4,329.3	0.00	0.00	0.00
13,800.0	90.00	269.96	9,475.0	-173.2	-4,429.2	4,429.3	0.00	0.00	0.00
13,900.0	90.00	269.96	9,475.0	-173.3	-4,529.2	4,529.3	0.00	0.00	0.00
14,000.0	90.00	269.96	9,475.0	-173.3	-4,629.2	4,629.3	0.00	0.00	0.00
14,100.0	90.00	269.96	9,475.0	-173.4	-4,729.2	4,729.3	0.00	0.00	0.00
14,200.0	90.00	269.96	9,475.0	-173.5	-4,829.2	4,829.3	0.00	0.00	0.00
14,300.0	90.00	269.96	9,475.0	-173.6	-4,929.2	4,929.3	0.00	0.00	0.00
14,400.0	90.00	269.96	9,475.0	-173.6	-5,029.2	5,029.3	0.00	0.00	0.00
14,420.1	90.00	269.96	9,475.0	-173.6	-5,049.2	5,049.4	0.00	0.00	0.00
TD at 14420.1 - Little Betty 702H BHL (copy)									

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
Little Betty 702H BHL (c - plan hits target center - Point	0.00	0.00	9,475.0	-173.6	-5,049.2	534,454.52	608,029.46	32.4690931°N	104.1170817°W
Little Betty 20 702H FTP - plan misses target center by 165.5usft at 9400.0usft MD (9350.1 TVD, -170.1 N, -60.5 E) - Point	0.00	0.01	9,475.0	-169.9	48.0	534,458.30	613,126.75	32.4690740°N	104.1005536°W

AVANT NATURAL RESOURCES

Planning Report

AVANT NATURAL RESOURCES

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Little Betty 20 702H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 3249.5usft (3249.5)
Project:	Eddy County, NM (NAD 83)	**MD Reference:**	WELL @ 3249.5usft (3249.5)
Site:	Little Betty 20 Pad 1	**North Reference:**	Grid
Well:	Little Betty 20 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,181.0	1,181.0	CAPITAN REEF			
2,993.0	2,993.0	CHERRY CANYON			
4,385.0	4,385.0	BRUSHY CANYON			
5,690.1	5,690.0	Top of BSGL			
6,879.3	6,877.0	Top of FBSG SD			
7,059.6	7,057.0	Top of SBSG Shale			
7,596.6	7,593.0	Top of SBSG SD			
8,036.4	8,032.0	Top of TBSG Carb			
8,853.8	8,848.0	Top of TBSG SD			
9,199.2	9,188.0	Top of basal TBSG Target			
9,300.6	9,276.0	Top WFMP			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,500.0	5,500.0	0.0	0.0	KOP - Start Build 2.00
5,672.7	5,672.6	-4.5	2.5	Start 3060.4 hold at 5672.7 MD
8,733.1	8,727.4	-165.5	92.5	Start Drop -2.00
8,905.8	8,900.0	-170.0	95.0	Start 97.5 hold at 8905.8 MD
9,003.3	8,997.5	-170.0	95.0	KOP #2 - Start Build 12.00
9,753.3	9,475.0	-170.3	-382.5	LP - Start 4666.8 hold at 9753.3 MD
14,420.1	9,475.0	-173.6	-5,049.2	TD at 14420.1