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District III
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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 341924

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 30-025-51603

4. Property Code	5. Property Name	6. Well No.
334069	SKY DWELLER 14 STATE COM	303H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	14	18S	34E	D	320	N	565	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
E	23	18S	34E	E	2540	N	330	W	Lea

9. Pool Information

AIRSTRIP;BONE SPRING	960
AIRSTRIP;BONE SPRING, NORTH	962

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	4006
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
Y	16043	1st Bone Spring Sand		8/1/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1825	1015	0
Int1	12.25	9.625	40	3400	885	0
Prod	8.75	5.5	20	16043	2805	0
Prod	7.875	5.5	20	16043	2805	0

Casing/Cement Program: Additional Comments

Drilling 8.75 hole size for the curve and 7.875 for the lateral for the 5.5 production casing string.

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:	Paul F Kautz
Title:	Director of Regulatory	Title:	Geologist
Email Address:	sarah@avantnr.com	Approved Date:	6/13/2023 Expiration Date: 6/13/2025
Date:	6/12/2023 Phone: 720-854-9020	Conditions of Approval Attached	

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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
	960	Airstrip; Bone Spring
4 Property Code	5 Property Name	6 Well Number
	SKY DWELLER 14 STATE COM	303H
7 OGRID No.	8 Operator Name	9 Elevation
330396	AVANT OPERATING, LLC	4006

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
D	14	18 S	34 E		320	NORTH	565	WEST	LEA

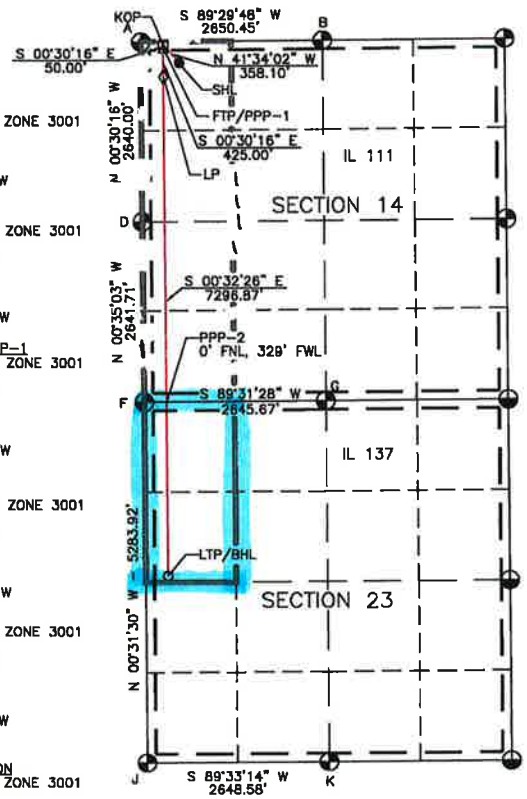
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	23	18 S	34 E		2540	NORTH	330	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
SECTION 23: W/2 NW/4; 80 Ac. TOTAL: 80 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



SURFACE LOCATION
NAD 83 NME, NMSPC ZONE 3001
Y= 639015.80 N
X= 785895.14 E
LAT: 32.7541655° N
LONG: 103.5378378° W

KICK OFF POINT
NAD 83 NME, NMSPC ZONE 3001
50' FNL, 330' FWL
SEC. 14, T18S, R34E
Y= 639283.73 N
X= 785657.54 E
LAT: 32.7549067° N
LONG: 103.5386041° W

FIRST TAKE POINT/PPP-1
NAD 83 NME, NMSPC ZONE 3001
100' FNL, 330' FWL
SEC. 14, T18S, R34E
Y= 639233.73 N
X= 785657.98 E
LAT: 32.7547693° N
LONG: 103.5386038° W

LANDING POINT
NAD 83 NME, NMSPC ZONE 3001
525' FNL, 330' FWL
SEC. 14, T18S, R34E
Y= 638808.74 N
X= 785661.73 E
LAT: 32.7536012° N
LONG: 103.5386020° W

PPP-2
NAD 83 NME, NMSPC ZONE 3001
0' FNL, 329' FWL
SEC. 23, T18S, R34E
Y= 634052.09 N
X= 785706.59 E
LAT: 32.7405270° N
LONG: 103.5385722° W

LAST TAKE POINT/
BOTTOM HOLE LOCATION
NAD 83 NME, NMSPC ZONE 3001
Y= 631512.20 N
X= 785730.55 E
LAT: 32.7335458° N
LONG: 103.5385563° W

Legend:
● = SURFACE LOCATION (SHL)
O = LTP/BHL
△ = FTP/PPP-1
□ = KICK OFF POINT (KOP)
◊ = LANDING POINT (LP)
⊕ = FOUND 1913 USGLO BRASS CAP
◒ = FOUND 1912 USGLO BRASS CAP

CORNER COORDINATES TABLE
NAD 83 NME, NMSPC ZONE 3001
A - Y= 639330.83 N, X= 785327.12 E
B - Y= 639354.11 N, X= 787977.46 E
D - Y= 636690.93 N, X= 785350.35 E
F - Y= 634049.36 N, X= 785377.29 E
G - Y= 634071.31 N, X= 788022.87 E
J - Y= 628765.65 N, X= 785425.71 E
K - Y= 628786.27 N, X= 788074.21 E

CORNER COORDINATES TABLE
NAD 83 NME, NMSPC ZONE 3001
A - LAT.=32.7550430° N, LONG.=103.5396776° W
B - LAT.=32.7550521° N, LONG.=103.5310567° W
D - LAT.=32.7477870° N, LONG.=103.5396664° W
F - LAT.=32.7405263° N, LONG.=103.5396432° W
G - LAT.=32.7405319° N, LONG.=103.5310391° W
J - LAT.=32.7260035° N, LONG.=103.5396144° W
K - LAT.=32.7260053° N, LONG.=103.5310023° W

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.

Signature 5/30/23 Date

Sarah Ferreyros
Printed Name

sarah@avantnr.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.

4/26/23
Date of Survey

Signature and Seal of Professional Surveyor:

JOHN A. VASQUEZ
NEW MEXICO
14831
PROFESSIONAL SURVEYOR

14831 5/22/2023
Certificate Number

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State of New Mexico
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OIL CONSERVATION DIVISION
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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
	962	Airstrip; Bone Spring, North

[4] Property Code	[5] Property Name	[6] Well Number
	SKY DWELLER 14 STATE COM	303H

[7] OGRID No.	[8] Operator Name	[9] Elevation
330396	AVANT OPERATING, LLC	4006

[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
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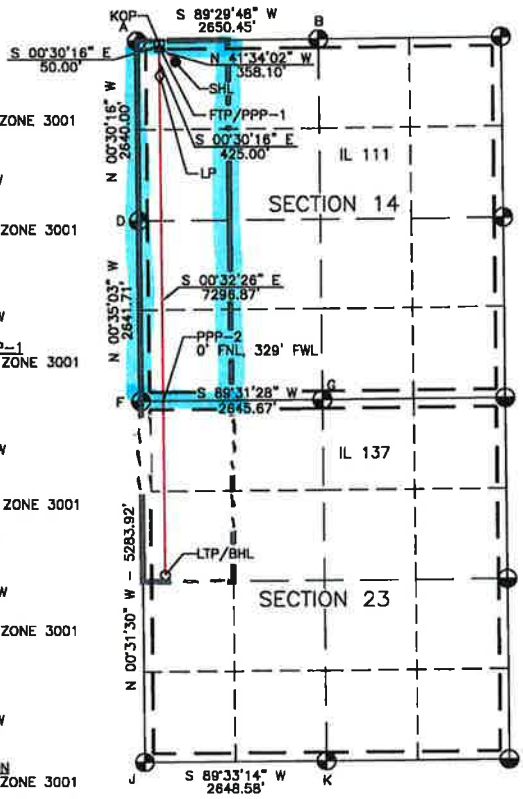
E	23	18 S	34 E		2540	NORTH	330	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
SECTION 14: W/2 W/2; 160 Ac. TOTAL: 160 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



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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.

Signature — Date: 5/30/23
Printed Name: Sarah Ferreiros
E-mail Address: Sarah@avantnr.com

[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.

4/26/23
Date of Survey

Signature and Seal of Professional Surveyor:

JOHN A. KONICH — NEW MEXICO — 14831 — PROFESSIONAL SURVEYOR

Certificate Number: 14831 — 5/22/2023

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

Form APD Comments

Permit 341924

PERMIT COMMENTS

Operator Name and Address:	API Number:
Avant Operating, LLC [330396] 1515 Wynkoop Street Denver, CO 80202	30-025-51603
	Well: SKY DWELLER 14 STATE COM #303H

Created By	Comment	Comment Date
sferreyros	Avant Operating would like to request to batch set surface casing with the other wells on the pad.	6/12/2023

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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 341924

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Avant Operating, LLC [330396] 1515 Wynkoop Street Denver, CO 80202	30-025-51603
	Well: SKY DWELLER 14 STATE COM #303H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	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
pkautz	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
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	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:** 05/22/2023

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
Sky Dweller 14 State Com 006H		D-14-T18S-R34E	160FNL/540FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D
Sky Dweller 14 State Com 008H		D-14-T18S-R34E	160FNL / 590FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D
Sky Dweller 14 State Com 302H		D-14-T18S-R34E	320FNL / 590FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D
Sky Dweller 14 State Com 303H		D-14-T18S-R34E	160FNL/2000FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D
Sky Dweller 14 State Com 602H		D-14-T18S-R34E	160FNL / 615FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D
Sky Dweller 14 State Com 603H		D-14-T18S-R34E	160FNL / 565FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D

IV. Central Delivery Point Name: Sky Dweller Pad 2 [See 19.15.27.9(D)(1) NMAC]
V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Sky Dweller 14 State Com 006H		10/22/2023	12/07/2023	12/18/2023	01/25/2024	03/01/2024
Sky Dweller 14 State Com 008H		10/22/2023	12/07/2023	12/18/2023	01/25/2024	03/01/2024
Sky Dweller 14 State Com 302H		10/22/2023	12/07/2023	12/18/2023	01/25/2024	03/01/2024
Sky Dweller 14 State Com 303H		10/22/2023	12/07/2023	12/18/2023	01/25/2024	03/01/2024
Sky Dweller 14 State Com 602H		10/22/2023	12/07/2023	12/18/2023	01/25/2024	03/01/2024
Sky Dweller 14 State Com 603H		10/22/2023	12/07/2023	12/18/2023	01/25/2024	03/01/2024

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.
VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: John Harper
Title: VP of Geosciences
E-mail Address: John@avantnr.com
Date: 05/22/23
Phone: 678-988-6644

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

Avant Operating, 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, whichever is sooner. 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. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(I) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and repo1ted appropriately.

E. 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.

F. 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

Avant Operating, LLC

Lea Co., NM (NAD 83)
Sky Dweller
Sky Dweller 14 State Com 303H

OH

Plan: Plan 0.1

Standard Planning Report

24 May, 2023

AVANT NATURAL RESOURCES

Planning Report

AVANT NATURAL RESOURCES

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Sky Dweller 14 State Com 303H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 4032.5usft (4032.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 4032.5usft (4032.5)
Site:	Sky Dweller	**North Reference:**	Grid
Well:	Sky Dweller 14 State Com 303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Project Lea Co., 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 Sky Dweller

Site Position:		**Northing:**	630,428.61 usft	**Latitude:**	32.7305680°N
From:	Lat/Long	**Easting:**	785,714.46 usft	**Longitude:**	103.5386350°W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sky Dweller 14 State Com 303H

Well Position	**+N/-S**	0.0 usft	**Northing:**	639,015.82 usft	**Latitude:**	32.7541655°N
	+E/-W	0.0 usft	**Easting:**	785,895.14 usft	**Longitude:**	103.5378378°W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	4,006.0 usft
Grid Convergence:		0.43 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.59	60.94	49,746.00820573

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	181.26

Plan Survey Tool Program **Date** 5/24/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,043.3	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	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,409.9	8.20	318.84	5,408.5	22.0	-19.3	2.00	2.00	0.00	318.84	
7,514.4	8.20	318.84	7,491.5	248.0	-216.7	0.00	0.00	0.00	0.00	
7,924.3	0.00	0.00	7,900.0	270.0	-236.0	2.00	-2.00	0.00	180.00	
7,996.8	0.00	0.00	7,972.5	270.0	-236.0	0.00	0.00	0.00	0.00	
8,746.8	90.00	179.47	8,450.0	-207.4	-231.6	12.00	12.00	0.00	179.47	
16,043.3	90.00	179.47	8,450.0	-7,503.6	-164.6	0.00	0.00	0.00	0.00	Sky Dweller 14 State

AVANT NATURAL RESOURCES

Planning Report

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Site:	Sky Dweller	**North Reference:**	Grid
Well:	Sky Dweller 14 State Com 303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	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
RUSTLER									
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,910.0	0.00	0.00	1,910.0	0.0	0.0	0.0	0.00	0.00	0.00
SALT									
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
3,400.0	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
3,683.0	0.00	0.00	3,683.0	0.0	0.0	0.0	0.00	0.00	0.00
SEVEN RIVERS									
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
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,427.0	0.00	0.00	4,427.0	0.0	0.0	0.0	0.00	0.00	0.00
QUEEN									
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00

AVANT NATURAL RESOURCES

Planning Report

AVANT NATURAL RESOURCES

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Site:	Sky Dweller	**North Reference:**	Grid
Well:	Sky Dweller 14 State Com 303H	**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)
4,600.0	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
KOP - Start Build 2.00									
5,100.0	2.00	318.84	5,100.0	1.3	-1.1	-1.3	2.00	2.00	0.00
5,200.0	4.00	318.84	5,199.8	5.3	-4.6	-5.2	2.00	2.00	0.00
5,300.0	6.00	318.84	5,299.5	11.8	-10.3	-11.6	2.00	2.00	0.00
5,400.0	8.00	318.84	5,398.7	21.0	-18.3	-20.6	2.00	2.00	0.00
5,409.9	8.20	318.84	5,408.5	22.0	-19.3	-21.6	2.00	2.00	0.00
Start 2104.6 hold at 5409.9 MD									
5,500.0	8.20	318.84	5,497.7	31.7	-27.7	-31.1	0.00	0.00	0.00
5,600.0	8.20	318.84	5,596.7	42.4	-37.1	-41.6	0.00	0.00	0.00
5,623.6	8.20	318.84	5,620.0	45.0	-39.3	-44.1	0.00	0.00	0.00
CHERRY CANYON									
5,700.0	8.20	318.84	5,695.6	53.2	-46.5	-52.2	0.00	0.00	0.00
5,800.0	8.20	318.84	5,794.6	63.9	-55.9	-62.7	0.00	0.00	0.00
5,811.5	8.20	318.84	5,806.0	65.2	-56.9	-63.9	0.00	0.00	0.00
BRUSHY CANYON									
5,900.0	8.20	318.84	5,893.6	74.7	-65.3	-73.2	0.00	0.00	0.00
6,000.0	8.20	318.84	5,992.6	85.4	-74.6	-83.7	0.00	0.00	0.00
6,100.0	8.20	318.84	6,091.6	96.1	-84.0	-94.3	0.00	0.00	0.00
6,200.0	8.20	318.84	6,190.5	106.9	-93.4	-104.8	0.00	0.00	0.00
6,300.0	8.20	318.84	6,289.5	117.6	-102.8	-115.3	0.00	0.00	0.00
6,400.0	8.20	318.84	6,388.5	128.3	-112.2	-125.8	0.00	0.00	0.00
6,500.0	8.20	318.84	6,487.5	139.1	-121.6	-136.4	0.00	0.00	0.00
6,600.0	8.20	318.84	6,586.4	149.8	-130.9	-146.9	0.00	0.00	0.00
6,700.0	8.20	318.84	6,685.4	160.5	-140.3	-157.4	0.00	0.00	0.00
6,800.0	8.20	318.84	6,784.4	171.3	-149.7	-167.9	0.00	0.00	0.00
6,815.8	8.20	318.84	6,800.0	173.0	-151.2	-169.6	0.00	0.00	0.00
BONE SPRING									
6,900.0	8.20	318.84	6,883.4	182.0	-159.1	-178.5	0.00	0.00	0.00
6,903.7	8.20	318.84	6,887.0	182.4	-159.4	-178.9	0.00	0.00	0.00
BONE SPRING LM									
7,000.0	8.20	318.84	6,982.4	192.7	-168.5	-189.0	0.00	0.00	0.00
7,100.0	8.20	318.84	7,081.3	203.5	-177.9	-199.5	0.00	0.00	0.00
7,200.0	8.20	318.84	7,180.3	214.2	-187.2	-210.1	0.00	0.00	0.00
7,300.0	8.20	318.84	7,279.3	224.9	-196.6	-220.6	0.00	0.00	0.00
7,400.0	8.20	318.84	7,378.3	235.7	-206.0	-231.1	0.00	0.00	0.00
7,500.0	8.20	318.84	7,477.2	246.4	-215.4	-241.6	0.00	0.00	0.00
7,514.4	8.20	318.84	7,491.5	248.0	-216.7	-243.2	0.00	0.00	0.00
Start Drop -2.00									
7,600.0	6.49	318.84	7,576.4	256.2	-223.9	-251.2	2.00	-2.00	0.00
7,700.0	4.49	318.84	7,675.9	263.4	-230.2	-258.3	2.00	-2.00	0.00
7,800.0	2.49	318.84	7,775.7	268.0	-234.2	-262.8	2.00	-2.00	0.00
7,900.0	0.49	318.84	7,875.7	269.9	-235.9	-264.7	2.00	-2.00	0.00
7,924.3	0.00	0.00	7,900.0	270.0	-236.0	-264.8	2.00	-2.00	169.40
Start 72.5 hold at 7924.3 MD									
7,996.8	0.00	0.00	7,972.5	270.0	-236.0	-264.8	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
8,000.0	0.38	179.47	7,975.7	270.0	-236.0	-264.7	12.00	12.00	0.00
8,100.0	12.38	179.47	8,074.9	258.9	-235.9	-253.7	12.00	12.00	0.00

AVANT NATURAL RESOURCES

Planning Report

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Well:	Sky Dweller 14 State Com 303H	**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)
8,200.0	24.38	179.47	8,169.6	227.4	-235.6	-222.2	12.00	12.00	0.00
8,300.0	36.38	179.47	8,255.7	176.9	-235.1	-171.7	12.00	12.00	0.00
8,400.0	48.38	179.47	8,329.5	109.7	-234.5	-104.5	12.00	12.00	0.00
Sky Dweller 14 State Com 303H FTP									
8,483.1	58.35	179.47	8,379.0	43.1	-233.9	-37.9	12.00	12.00	0.00
Top of FBSG SD									
8,500.0	60.38	179.47	8,387.6	28.5	-233.8	-23.4	12.00	12.00	0.00
8,600.0	72.38	179.47	8,427.6	-62.9	-232.9	68.0	12.00	12.00	0.00
8,700.0	84.38	179.47	8,447.7	-160.7	-232.0	165.7	12.00	12.00	0.00
8,746.8	90.00	179.47	8,450.0	-207.4	-231.6	212.5	12.00	12.00	0.00
LP - Start 7296.5 hold at 8746.8 MD									
8,800.0	90.00	179.47	8,450.0	-260.6	-231.1	265.6	0.00	0.00	0.00
8,900.0	90.00	179.47	8,450.0	-360.6	-230.2	365.6	0.00	0.00	0.00
9,000.0	90.00	179.47	8,450.0	-460.6	-229.3	465.5	0.00	0.00	0.00
9,100.0	90.00	179.47	8,450.0	-560.6	-228.4	565.5	0.00	0.00	0.00
9,200.0	90.00	179.47	8,450.0	-660.6	-227.5	665.4	0.00	0.00	0.00
9,300.0	90.00	179.47	8,450.0	-760.6	-226.5	765.4	0.00	0.00	0.00
9,400.0	90.00	179.47	8,450.0	-860.6	-225.6	865.3	0.00	0.00	0.00
9,500.0	90.00	179.47	8,450.0	-960.6	-224.7	965.3	0.00	0.00	0.00
9,600.0	90.00	179.47	8,450.0	-1,060.6	-223.8	1,065.2	0.00	0.00	0.00
9,700.0	90.00	179.47	8,450.0	-1,160.6	-222.9	1,165.2	0.00	0.00	0.00
9,800.0	90.00	179.47	8,450.0	-1,260.6	-221.9	1,265.1	0.00	0.00	0.00
9,900.0	90.00	179.47	8,450.0	-1,360.6	-221.0	1,365.1	0.00	0.00	0.00
10,000.0	90.00	179.47	8,450.0	-1,460.6	-220.1	1,465.0	0.00	0.00	0.00
10,100.0	90.00	179.47	8,450.0	-1,560.6	-219.2	1,565.0	0.00	0.00	0.00
10,200.0	90.00	179.47	8,450.0	-1,660.6	-218.3	1,664.9	0.00	0.00	0.00
10,300.0	90.00	179.47	8,450.0	-1,760.5	-217.4	1,764.9	0.00	0.00	0.00
10,400.0	90.00	179.47	8,450.0	-1,860.5	-216.4	1,864.8	0.00	0.00	0.00
10,500.0	90.00	179.47	8,450.0	-1,960.5	-215.5	1,964.8	0.00	0.00	0.00
10,600.0	90.00	179.47	8,450.0	-2,060.5	-214.6	2,064.7	0.00	0.00	0.00
10,700.0	90.00	179.47	8,450.0	-2,160.5	-213.7	2,164.7	0.00	0.00	0.00
10,800.0	90.00	179.47	8,450.0	-2,260.5	-212.8	2,264.7	0.00	0.00	0.00
10,900.0	90.00	179.47	8,450.0	-2,360.5	-211.8	2,364.6	0.00	0.00	0.00
11,000.0	90.00	179.47	8,450.0	-2,460.5	-210.9	2,464.6	0.00	0.00	0.00
11,100.0	90.00	179.47	8,450.0	-2,560.5	-210.0	2,564.5	0.00	0.00	0.00
11,200.0	90.00	179.47	8,450.0	-2,660.5	-209.1	2,664.5	0.00	0.00	0.00
11,300.0	90.00	179.47	8,450.0	-2,760.5	-208.2	2,764.4	0.00	0.00	0.00
11,400.0	90.00	179.47	8,450.0	-2,860.5	-207.2	2,864.4	0.00	0.00	0.00
11,500.0	90.00	179.47	8,450.0	-2,960.5	-206.3	2,964.3	0.00	0.00	0.00
11,600.0	90.00	179.47	8,450.0	-3,060.5	-205.4	3,064.3	0.00	0.00	0.00
11,700.0	90.00	179.47	8,450.0	-3,160.5	-204.5	3,164.2	0.00	0.00	0.00
11,800.0	90.00	179.47	8,450.0	-3,260.5	-203.6	3,264.2	0.00	0.00	0.00
11,900.0	90.00	179.47	8,450.0	-3,360.5	-202.7	3,364.1	0.00	0.00	0.00
12,000.0	90.00	179.47	8,450.0	-3,460.5	-201.7	3,464.1	0.00	0.00	0.00
12,100.0	90.00	179.47	8,450.0	-3,560.5	-200.8	3,564.0	0.00	0.00	0.00
12,200.0	90.00	179.47	8,450.0	-3,660.5	-199.9	3,664.0	0.00	0.00	0.00
12,300.0	90.00	179.47	8,450.0	-3,760.5	-199.0	3,763.9	0.00	0.00	0.00
12,400.0	90.00	179.47	8,450.0	-3,860.5	-198.1	3,863.9	0.00	0.00	0.00
12,500.0	90.00	179.47	8,450.0	-3,960.5	-197.1	3,963.8	0.00	0.00	0.00
12,600.0	90.00	179.47	8,450.0	-4,060.5	-196.2	4,063.8	0.00	0.00	0.00
12,700.0	90.00	179.47	8,450.0	-4,160.4	-195.3	4,163.7	0.00	0.00	0.00
12,800.0	90.00	179.47	8,450.0	-4,260.4	-194.4	4,263.7	0.00	0.00	0.00
12,900.0	90.00	179.47	8,450.0	-4,360.4	-193.5	4,363.6	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 Sky Dweller 14 State Com 303H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 4032.5usft (4032.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 4032.5usft (4032.5)
Site:	Sky Dweller	**North Reference:**	Grid
Well:	Sky Dweller 14 State Com 303H	**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)
13,000.0	90.00	179.47	8,450.0	-4,460.4	-192.6	4,463.6	0.00	0.00	0.00
13,100.0	90.00	179.47	8,450.0	-4,560.4	-191.6	4,563.5	0.00	0.00	0.00
13,200.0	90.00	179.47	8,450.0	-4,660.4	-190.7	4,663.5	0.00	0.00	0.00
13,300.0	90.00	179.47	8,450.0	-4,760.4	-189.8	4,763.4	0.00	0.00	0.00
13,400.0	90.00	179.47	8,450.0	-4,860.4	-188.9	4,863.4	0.00	0.00	0.00
13,500.0	90.00	179.47	8,450.0	-4,960.4	-188.0	4,963.3	0.00	0.00	0.00
13,600.0	90.00	179.47	8,450.0	-5,060.4	-187.0	5,063.3	0.00	0.00	0.00
13,700.0	90.00	179.47	8,450.0	-5,160.4	-186.1	5,163.2	0.00	0.00	0.00
13,800.0	90.00	179.47	8,450.0	-5,260.4	-185.2	5,263.2	0.00	0.00	0.00
13,900.0	90.00	179.47	8,450.0	-5,360.4	-184.3	5,363.1	0.00	0.00	0.00
14,000.0	90.00	179.47	8,450.0	-5,460.4	-183.4	5,463.1	0.00	0.00	0.00
14,100.0	90.00	179.47	8,450.0	-5,560.4	-182.5	5,563.1	0.00	0.00	0.00
14,200.0	90.00	179.47	8,450.0	-5,660.4	-181.5	5,663.0	0.00	0.00	0.00
14,300.0	90.00	179.47	8,450.0	-5,760.4	-180.6	5,763.0	0.00	0.00	0.00
14,400.0	90.00	179.47	8,450.0	-5,860.4	-179.7	5,862.9	0.00	0.00	0.00
14,500.0	90.00	179.47	8,450.0	-5,960.4	-178.8	5,962.9	0.00	0.00	0.00
14,600.0	90.00	179.47	8,450.0	-6,060.4	-177.9	6,062.8	0.00	0.00	0.00
14,700.0	90.00	179.47	8,450.0	-6,160.4	-176.9	6,162.8	0.00	0.00	0.00
14,800.0	90.00	179.47	8,450.0	-6,260.4	-176.0	6,262.7	0.00	0.00	0.00
14,900.0	90.00	179.47	8,450.0	-6,360.4	-175.1	6,362.7	0.00	0.00	0.00
15,000.0	90.00	179.47	8,450.0	-6,460.4	-174.2	6,462.6	0.00	0.00	0.00
15,100.0	90.00	179.47	8,450.0	-6,560.3	-173.3	6,562.6	0.00	0.00	0.00
15,200.0	90.00	179.47	8,450.0	-6,660.3	-172.3	6,662.5	0.00	0.00	0.00
15,300.0	90.00	179.47	8,450.0	-6,760.3	-171.4	6,762.5	0.00	0.00	0.00
15,400.0	90.00	179.47	8,450.0	-6,860.3	-170.5	6,862.4	0.00	0.00	0.00
15,500.0	90.00	179.47	8,450.0	-6,960.3	-169.6	6,962.4	0.00	0.00	0.00
15,600.0	90.00	179.47	8,450.0	-7,060.3	-168.7	7,062.3	0.00	0.00	0.00
15,700.0	90.00	179.47	8,450.0	-7,160.3	-167.8	7,162.3	0.00	0.00	0.00
15,800.0	90.00	179.47	8,450.0	-7,260.3	-166.8	7,262.2	0.00	0.00	0.00
15,900.0	90.00	179.47	8,450.0	-7,360.3	-165.9	7,362.2	0.00	0.00	0.00
16,000.0	90.00	179.47	8,450.0	-7,460.3	-165.0	7,462.1	0.00	0.00	0.00
16,043.3	90.00	179.47	8,450.0	-7,503.6	-164.6	7,505.4	0.00	0.00	0.00
TD at 16043.3 - Sky Dweller 14 State Com 303H LTP/BHL									

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
Sky Dweller 14 State Co - plan hits target center - Point	0.00	0.00	8,450.0	-7,503.6	-164.6	631,512.19	785,730.54	32.7335458°N	103.5385563°W
Sky Dweller 14 State Co - plan misses target center by 162.0usft at 8400.0usft MD (8329.5 TVD, 109.7 N, -234.5 E) - Point	0.00	0.00	8,450.0	217.9	-237.1	639,233.73	785,657.99	32.7547693°N	103.5386038°W

AVANT NATURAL RESOURCES

Planning Report

AVANT NATURAL RESOURCES

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Sky Dweller 14 State Com 303H
Company:	Avant Operating, LLC	**TVD Reference:**	WELL @ 4032.5usft (4032.5)
Project:	Lea Co., NM (NAD 83)	**MD Reference:**	WELL @ 4032.5usft (4032.5)
Site:	Sky Dweller	**North Reference:**	Grid
Well:	Sky Dweller 14 State Com 303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 0.1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,800.0	1,800.0	RUSTLER			
1,910.0	1,910.0	SALT			
3,683.0	3,683.0	SEVEN RIVERS			
4,427.0	4,427.0	QUEEN			
5,623.6	5,620.0	CHERRY CANYON			
5,811.5	5,806.0	BRUSHY CANYON			
6,815.8	6,800.0	BONE SPRING			
6,903.7	6,887.0	BONE SPRING LM			
8,483.1	8,379.0	Top of FBSG SD			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,000.0	5,000.0	0.0	0.0	KOP - Start Build 2.00
5,409.9	5,408.5	22.0	-19.3	Start 2104.6 hold at 5409.9 MD
7,514.4	7,491.5	248.0	-216.7	Start Drop -2.00
7,924.3	7,900.0	270.0	-236.0	Start 72.5 hold at 7924.3 MD
7,996.8	7,972.5	270.0	-236.0	KOP #2 - Start Build 12.00
8,746.8	8,450.0	-207.4	-231.6	LP - Start 7296.5 hold at 8746.8 MD
16,043.3	8,450.0	-7,503.6	-164.6	TD at 16043.3

Intent [X] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
Avant Operating, LLC	Sky Dweller 14 State Com	303H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	14	18S	34E		50	N	330	W	Lea

Latitude	Longitude	NAD
32.7549067	-103.5386041	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	14	18S	34E		100	N	330	W	Lea

Latitude	Longitude	NAD
32.7547693	-103.5386038	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	23	18S	34E		2540	N	330	W	Lea

Latitude	Longitude	NAD
32.7335458	-103.5385563	83

Is this well the defining well for the Horizontal Spacing Unit? [No]

Is this well an infill well? [Yes]

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
Avant Operating, LLC	Sky Dweller 14 State Com	006H

KZ 06/29/2018