<u>District I</u> 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 341243

	APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE	
Operator Name and Address	2 CORID No.	

Operator Name and Address		2. OGRID Number
Avant Operating, LLC		330396
1515 Wynkoop Street		3. API Number
Denver, CO 80202		30-025-51598
4. Property Code	5. Property Name	6. Well No.
334069	SKY DWELLER 14 STATE COM	008H

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	160	N	590	W	Lea

8. Proposed Bottom Hole Location

ſ	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	1320	W	Lea

#### 9. Pool Information

AIF	RSTRIP;WOLFCAMP, NORTH	990

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
N	19008	Wolfcamp		7/1/2023
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	830	0				
Int1	12.25	9.625	40	10800	1250	0				
Prod	8.75	5.5	20	19008	1090	0				
Prod	7.875	5.5	20	19008	1090	0				

### Casing/Cement Program: Additional Comments

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

22 Proposed Blowout Prevention Program

ZZ. I Toposea Biowout i revention i rogiam								
Туре	Working Pressure	Test Pressure	Manufacturer					
Pipe	10000	5000	Cameron					

knowledge and b I further certify I  X, if applicable.	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION
Signature:					
Printed Name:	Electronically filed by Sarah Ferre	eyros	Approved By:	Paul F Kautz	
Title:	Title: Director of Regulatory			Geologist	
Email Address:	sarah@avantnr.com		Approved Date:	6/12/2023	Expiration Date: 6/12/2025
Date:	5/30/2023	Phone: 720-854-9020	Conditions of Appr	oval Attached	_

DISTRICT J 1625 N. French Dr., Hobbs, N.M. 88240 Phone: (675) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, N.M. 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Braxos Rd., Asteo, N.M. 87410 Phone: (505) 334-6178 Fax: (506) 334-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 67506 Phone: (505) 476-3460 Fax: (505) 478-3482

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

<sup>1</sup> API Number 30-025-51598	990 Pool Code	Airstrip: Wolfcar	mp. North
Property Code 334069	Property SKY DWELLER		Well Number 008H
33039b	*Operato AVANT OPER	* Elevation 4006	
	10 ~		

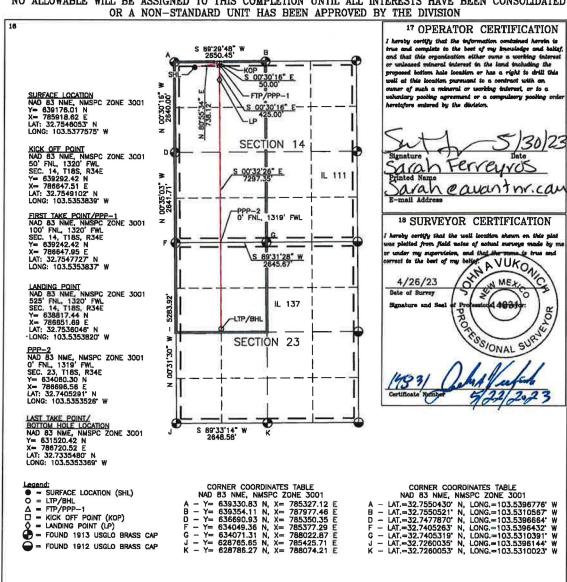
Surface Location

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		160	NORTH	590	WEST	LEA

<sup>11</sup> 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	1320	WEST	LEA
SECTION 14: SECTION 23:	NW/4, SW			TOTAL	: 480 Ac.	Joint or Infill	Consolidation Code	"Order No.	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



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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 Comments

Permit 341243

#### PERMIT COMMENTS

Operator Name and Address:	API Number:
Avant Operating, LLC [330396]	30-025-51598
1515 Wynkoop Street	Well:
Denver, CO 80202	SKY DWELLER 14 STATE COM #008H

Created By	Comment	Comment Date
sferreyros	Avant Operating would like to request to batch-set surface casing with the other wells on the pad.	5/30/2023

Permit 341243

Form APD Conditions

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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**

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Avant Operating, LLC [330396]	30-025-51598
1515 Wynkoop Street	Well:
Denver, CO 80202	SKY DWELLER 14 STATE COM #008H

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	<b>OGRID:</b> 330396	<b>Date:</b> 05/22/2023
II. Type: ⊠ Original □ Amendment	due to 🗆 19.15.27.9	$.D(6)(a)$ NMAC $\square$ 19.15.27.9. $D(6)(b)$ NMAC $\square$ Other.
If Other, please describe:		
<b>III.</b> Well(s): Provide the following info be recompleted from a single well pad of		ew or recompleted well or set of wells proposed to be drilled or proposed to ntral delivery point.

Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated
Sky Dweller 14 State Com (	006Н	D-14-T18S-R34E	160FNL/540FWL	Oil BBL/D 1200 BBL/D	Gas MCF/D 2200 MCF/D	Produced Water BBL/D 5500 BBL/D
Sky Dweller 14 State Com (	H800	D-14-T18S-R34E	160FNL / 590FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D
Sky Dweller 14 State Com 3	02H	D-14-T18S-R34E	320FNL / 590FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D
Sky Dweller 14 State Com 3	03H	D-14-T18S-R34E	160FNL/2000FWL	1200 BBL/D	2200 MCF/D	5500 BBL/D
Sky Dweller 14 State Com (	502H	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	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	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	Available Maximum Daily Capacity
			Start Date	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.

X	II. Line Capacity. The natural	gas gathering system	□ will □ will n	ot have capacity to	gather 100%	of the anticipated	natural gas
pr	oduction volume from the well	prior to the date of firs	st production.				

XIII. Line Pressure. Operator $\square$ does $\square$ 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).

$\square$ Attach Operator's plan to manage production in response to the increased line pres	
	sure

XIV. Confidentiality: $\Box$ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the in	formation 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	ne specific information
for which confidentiality is asserted and the basis for such assertion.	

(g)

(h)

(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.  $\square$  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) power generation for grid; **(b)** (c) compression on lease; (d) liquids removal on lease; reinjection for underground storage; (e) (f) reinjection for temporary storage;

# **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.

reinjection for enhanced oil recovery;

fuel cell production; and

- (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:

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:
Amount Date
Approval Date:
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 repolted appropriately.
  - E. Avant will comply with the performance standards requirements and provisions listed in 19.15.27.8 (I) 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 008H

OH

Plan: Plan 0.1

# **Standard Planning Report**

24 May, 2023







Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)

Sky Dweller
Sky Dweller 14 State Com 008H

Well: Sky Dwell
Wellbore: OH
Design: Plan 0.1

Site:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Sky Dweller 14 State Com 008H

WELL @ 4032.5usft (4032.5) WELL @ 4032.5usft (4032.5)

Grid

Minimum Curvature

Project Lea Co., NM (NAD 83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

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 008H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 639,176.02 usft
 Latitude:
 32.7546053°N

 +E/-W
 0.0 usft
 Easting:
 785,918.62 usft
 Longitude:
 103.5377575°W

Position Uncertainty

0.0 usft Easting: /85,918.62 usft Longitude: 103.537/5/5\*W

Usft Ground Level: 4,006.0 usft 4,006.0 usft

Grid Convergence: 0.43 °

ОН Wellbore **Model Name** Declination Field Strength Magnetics Sample Date Dip Angle (°) (°) (nT) IGRF2000 49,746.28621799 12/31/2004 8.59 60.94

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
 174.02

Plan Survey Tool Program Date 5/24/2023

Depth From Depth To

(usft) Survey (Wellbore) Tool Name Remarks

0.0 19,007.5 Plan 0.1 (OH) B001Mb\_MWD+HRGM
OWSG MWD + HRGM





Database: EDM 5000.16 Single User Db
Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)

Site: Sky Dweller

Well: Sky Dweller 14 State Com 008H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

**Survey Calculation Method:** 

Well Sky Dweller 14 State Com 008H

WELL @ 4032.5usft (4032.5) WELL @ 4032.5usft (4032.5)

Grid

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	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,575.6	7.51	80.81	5,574.5	3.9	24.3	2.00	2.00	0.00	80.81	
10,468.5	7.51	80.81	10,425.5	106.1	655.7	0.00	0.00	0.00	0.00	
10,844.1	0.00	0.00	10,800.0	110.0	680.0	2.00	-2.00	0.00	180.00	
10,966.7	0.00	0.00	10,922.6	110.0	680.0	0.00	0.00	0.00	0.00	
11,716.7	90.00	174.67	11,400.0	-365.4	724.3	12.00	12.00	0.00	174.67	
11,718.7	90.00	174.67	11,400.0	-367.4	724.5	0.00	0.00	0.00	0.00	
11,958.5	90.00	179.47	11,400.0	-606.8	736.7	2.00	0.00	2.00	90.00	
19,007.6	90.00	179.47	11,400.0	-7,655.6	801.9	0.00	0.00	0.00	0.00	Sky Dweller 14 State

# NATURAL RESOURCES

## **Planning Report**



Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)

Site: Sky Dweller

Well: Sky Dweller 14 State Com 008H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Sky Dweller 14 State Com 008H

WELL @ 4032.5usft (4032.5) WELL @ 4032.5usft (4032.5)

Grid

Planned Survey									
•									
Measure	. d		Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	0.0 0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.0 0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.0	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.0	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
40	0.0	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
50	0.0 0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
							0.00		
	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
	0.0	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
80	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
90	0.0 0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,00	0.0	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,10	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,20	0.0 0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,30		0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,40		0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,40	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,50	0.0	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,60		0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,70		0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,80		0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLE	ER								
1,90	0.0	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,91	0.00	0.00	1,910.0	0.0	0.0	0.0	0.00	0.00	0.00
SALT									
2,00	0.0	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
,		0.00							0.00
2,10			2,100.0	0.0	0.0	0.0	0.00	0.00	
2,20		0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,30	0.0	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2.40	0.0 0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,40					0.0	0.0			
2,50		0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,60		0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,70	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,80	0.0	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,90		0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,00	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,10	0.0	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,20		0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,30		0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,40	0.0	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,50		0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,60		0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,68		0.00	3,683.0	0.0	0.0	0.0	0.00	0.00	0.00
		0.00	3,003.0	0.0	0.0	0.0	0.00	0.00	0.00
	RIVERS								
3,70	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
0.55	0.0	2.22	0.000.0	2.2	2.2		0.00	2.22	0.00
3,80		0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,90		0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,00		0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,10	0.0	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,20		0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,30		0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,40	0.0 0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,42		0.00	4,427.0	0.0	0.0	0.0	0.00	0.00	0.00
		0.00	., 121.0	0.0	0.0	0.0	0.00	0.00	5.55
QUEEN									
4,50 4,60	0.0	0.00 0.00	4,500.0 4,600.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00





Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC
Project: Lea Co., NM (NAD 83)

Site: Sky Dweller

Well: Sky Dweller 14 State Com 008H

Wellbore: OH
Design: Plan 0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Sky Dweller 14 State Com 008H

WELL @ 4032.5usft (4032.5) WELL @ 4032.5usft (4032.5)

Grid

i	Fiail U. I								
d 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
KOP - Start									
5,300.0	2.00	80.81	5,300.0	0.3	1.7	-0.1	2.00	2.00	0.00
5,400.0	4.00	80.81	5,399.8	1.1	6.9	-0.4	2.00	2.00	0.00
5,500.0	6.00	80.81	5,499.5	2.5	15.5	-0.9	2.00	2.00	0.00
5,575.6	7.51	80.81	5,574.5	3.9	24.3	-1.4	2.00	2.00	0.00
	hold at 5575.6 M	/ID							
5,600.0	7.51	80.81	5,598.7	4.4	27.4	-1.6	0.00	0.00	0.00
5,621.5	7.51	80.81	5,620.0	4.9	30.2	-1.7	0.00	0.00	0.00
CHERRY CA			-,						
5,700.0	7.51	80.81	5,697.9	6.5	40.3	-2.3	0.00	0.00	0.00
5,800.0	7.51	80.81	5,797.0	8.6	53.2	-3.0	0.00	0.00	0.00
5,809.1	7.51	80.81	5,806.0	8.8	54.4	-3.1	0.00	0.00	0.00
BRUSHY CA		55.01	0,000.0	5.0	J-1T	-0.1	3.00	0.00	0.00
5,900.0	7.51	80.81	5,896.1	10.7	66.1	-3.8	0.00	0.00	0.00
,			5,896.1						
6,000.0	7.51	80.81	-,	12.8	79.0	-4.5	0.00	0.00	0.00
6,100.0	7.51	80.81	6,094.4	14.9	91.9	-5.2	0.00	0.00	0.00
6,200.0	7.51	80.81	6,193.6	17.0	104.9	-5.9	0.00	0.00	0.00
6,300.0	7.51	80.81	6,292.7	19.0	117.8	-6.7	0.00	0.00	0.00
6,400.0	7.51	80.81	6,391.8	21.1	130.7	-7.4	0.00	0.00	0.00
6,500.0	7.51	80.81	6,491.0	23.2	143.6	-8.1	0.00	0.00	0.00
6,600.0	7.51	80.81	6,590.1	25.2	156.5	-8.9	0.00	0.00	0.00
6,700.0	7.51	80.81	6,689.3	27.4	169.4	-9.6	0.00	0.00	0.00
6,800.0	7.51	80.81	6,788.4	29.5	182.3	-10.3	0.00	0.00	0.00
6,811.7	7.51	80.81	6,800.0	29.7	183.8	-10.4	0.00	0.00	0.00
BONE SPRII		00.04	0.007.0	0.1.0	105.1	44.4	2.22	0.00	0.00
6,899.4	7.51	80.81	6,887.0	31.6	195.1	-11.1	0.00	0.00	0.00
BONE SPRII									
6,900.0	7.51	80.81	6,887.6	31.6	195.2	-11.1	0.00	0.00	0.00
7,000.0	7.51	80.81	6,986.7	33.7	208.1	-11.8	0.00	0.00	0.00
7,100.0	7.51	80.81	7,085.8	35.8	221.0	-12.5	0.00	0.00	0.00
7,200.0	7.51	80.81	7,185.0	37.8	233.9	-13.3	0.00	0.00	0.00
7,300.0	7.51	80.81	7,284.1	39.9	246.8	-14.0	0.00	0.00	0.00
7,400.0	7.51	80.81	7,383.3	42.0	259.7	-14.7	0.00	0.00	0.00
7,500.0	7.51	80.81	7,482.4	44.1	272.6	-15.5	0.00	0.00	0.00
7,600.0	7.51	80.81	7,581.6	46.2	285.5	-16.2	0.00	0.00	0.00
7,700.0	7.51	80.81	7,680.7	48.3	298.4	-16.9	0.00	0.00	0.00
7,700.0	7.51	80.81	7,779.8	50.4	311.3	-10.9	0.00	0.00	0.00
7,900.0	7.51	80.81	7,879.0	52.5	324.2	-18.4	0.00	0.00	0.00
8,000.0	7.51	80.81	7,978.1	54.5	337.2	-19.1	0.00	0.00	0.00
8,100.0	7.51	80.81	8,077.3	56.6	350.1	-19.9	0.00	0.00	0.00
8,200.0	7.51	80.81	8,176.4	58.7	363.0	-20.6	0.00	0.00	0.00
8,300.0	7.51	80.81	8,275.5	60.8	375.9	-21.3	0.00	0.00	0.00
8,400.0	7.51	80.81	8,374.7	62.9	388.8	-22.0	0.00	0.00	0.00
8,404.4	7.51	80.81	8,379.0	63.0	389.3	-22.1	0.00	0.00	0.00
Top of FBSC			,						
8,500.0	7.51	80.81	8,473.8	65.0	401.7	-22.8	0.00	0.00	0.00
		80.81	8,501.0	65.5	405.2	-23.0	0.00	0.00	0.00

# NATURAL RESOURCES

## **Planning Report**



Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC Project: Lea Co., NM (NAD 83)

Sky Dweller 14 State Com 008H

Site: Sky Dweller

Wellbore: OH
Design: Plan 0.1

Well:

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

North Reference: Survey Calculation Method: Well Sky Dweller 14 State Com 008H WELL @ 4032.5usft (4032.5)

WELL @ 4032.5usft (4032.5)

Grid

esign:	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)
Top of SE	SSG Shale								
8,600. 8,700. 8,800. 8,900.	0 7.51 0 7.51	80.81 80.81 80.81 80.81	8,573.0 8,672.1 8,771.3 8,870.4	67.1 69.2 71.2 73.3	414.6 427.5 440.4 453.3	-23.5 -24.2 -25.0 -25.7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
9,000. 9,100. 9,144.	0 7.51 0 7.51	80.81 80.81 80.81	8,969.5 9,068.7 9,113.0	75.4 77.5 78.4	466.2 479.1 484.9	-26.4 -27.2 -27.5	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Top of SE		00.01	0,110.0	70.1	10 1.0	27.0	0.00	0.00	0.00
9,200. 9,300.	0 7.51 0 7.51	80.81 80.81	9,167.8 9,267.0	79.6 81.7	492.0 504.9	-27.9 -28.6	0.00	0.00	0.00 0.00
9,400. 9,449.		80.81 80.81	9,366.1 9,415.0	83.8 84.8	517.8 524.2	-29.4 -29.7	0.00 0.00	0.00 0.00	0.00 0.00
Top of TE		00.01	3,110.0	01.0	0 <u>L</u> 1. <u>L</u>	20.1	0.00	0.00	0.00
9,500. 9,600. 9,671.	0 7.51	80.81 80.81 80.81	9,465.2 9,564.4 9,635.0	85.9 87.9 89.4	530.7 543.6 552.8	-30.1 -30.8 -31.4	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Top of TE	SSG SD								
9,700. 9,764. <b>Top WFM</b>	0 7.51	80.81 80.81	9,663.5 9,727.0	90.0 91.4	556.5 564.8	-31.6 -32.0	0.00 0.00	0.00 0.00	0.00 0.00
9,800. 9,900. 10,000.	0 7.51 0 7.51	80.81 80.81 80.81	9,762.7 9,861.8 9,961.0	92.1 94.2 96.3	569.4 582.4 595.3	-32.3 -33.0 -33.8	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
10,100. 10,200. 10,300. 10,400. 10,468.	0 7.51 0 7.51 0 7.51	80.81 80.81 80.81 80.81 80.81	10,060.1 10,159.2 10,258.4 10,357.5 10,425.5	98.4 100.5 102.6 104.6 106.1	608.2 621.1 634.0 646.9 655.7	-34.5 -35.2 -36.0 -36.7 -37.2	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
Start Dro		00.01	10,120.0	100.1	000.1	01.2	0.00	0.00	0.00
10,500. 10,600. 10,700. 10,800. 10,844.	0 6.88 0 4.88 0 2.88 0 0.88	80.81 80.81 80.81 80.81 0.00	10,456.7 10,556.2 10,655.9 10,755.9 10,800.0	106.7 108.3 109.4 109.9 110.0	659.6 669.7 676.4 679.7 680.0	-37.4 -38.0 -38.4 -38.5 -38.6	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
Start 122	.6 hold at 10844.1 N	/ID							
10,900. 10,966.	7 0.00	0.00 0.00	10,855.9 10,922.6	110.0 110.0	680.0 680.0	-38.6 -38.6	0.00 0.00	0.00 0.00	0.00 0.00
11,000. 11,100. 11,200. 11,300. 11,372.	0 15.99 0 28.00 0 40.00	174.67 174.67 174.67 174.67 174.67	10,955.8 11,054.1 11,146.7 11,229.4 11,281.4	108.8 91.6 54.4 -1.2 -51.8	680.1 681.7 685.2 690.4 695.1	-37.4 -20.1 17.3 73.1 124.0	12.00 12.00 12.00 12.00 12.00	12.00 12.00 12.00 12.00 12.00	0.00 0.00 0.00 0.00 0.00
	ler 14 State Com 0		,						
11,400. 11,500. 11,600.	0 64.00	174.67 174.67 174.67	11,298.8 11,351.7 11,385.8	-72.7 -157.0 -250.4	697.0 704.9 713.6	144.9 229.5 323.3	12.00 12.00 12.00	12.00 12.00 12.00	0.00 0.00 0.00
11,700. 11,716.		174.67 174.67	11,399.7 11,400.0	-348.8 -365.4	722.8 724.3	422.2 438.8	12.00 12.00	12.00 12.00	0.00 0.00
11,718.		174.67	11,400.0	-367.4	724.5	440.9	0.00	0.00	0.00





Database: EDM 5000.16 Single User Db Company: Avant Operating, LLC Project: Lea Co., NM (NAD 83)

Sky Dweller 14 State Com 008H

Site: Sky Dweller

Wellbore: OH
Design: Plan 0.1

Well:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Sky Dweller 14 State Com 008H

WELL @ 4032.5usft (4032.5) WELL @ 4032.5usft (4032.5)

Grid

Design:	Plan 0.1								
Planned Survey									
Tialinoa Garvoy									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,800.0	90.00	176.30	11,400.0	-448.4	730.9	522.1	2.00	0.00	2.00
11,900.0	90.00	178.30	11,400.0	-548.3	735.6	622.0	2.00	0.00	2.00
11,958.5	90.00	179.47	11,400.0	-606.8	736.7	680.3	2.00	0.00	2.00
Start 7049.1 h	old at 11958.5	MD							
12,000.0	90.00	179.47	11,400.0	-648.3	737.1	721.6	0.00	0.00	0.00
12,100.0	90.00	179.47	11,400.0	-748.3	738.1	821.1	0.00	0.00	0.00
12,200.0	90.00	179.47	11,400.0	-848.3	739.0	920.7	0.00	0.00	0.00
12,300.0	90.00	179.47	11,400.0	-948.3	739.9	1,020.2	0.00	0.00	0.00
12,400.0	90.00	179.47	11,400.0	-1,048.3	740.8	1,119.8	0.00	0.00	0.00
12,500.0	90.00	179.47	11,400.0	-1,148.3	741.7	1,219.3	0.00	0.00	0.00
12,600.0	90.00	179.47	11,400.0	-1,248.3	742.7	1,318.9	0.00	0.00	0.00
12,700.0	90.00	179.47	11,400.0	-1,348.3	743.6	1,418.4	0.00	0.00	0.00
12,800.0	90.00	179.47	11,400.0	-1,448.3	744.5	1,518.0	0.00	0.00	0.00
12,900.0	90.00	179.47	11,400.0	-1,548.3	745.4	1,617.5	0.00	0.00	0.00
13,000.0	90.00	179.47	11,400.0	-1,648.3	746.4	1,717.1	0.00	0.00	0.00
13,100.0	90.00	179.47	11,400.0	-1,748.3	747.3	1,816.6	0.00	0.00	0.00
13,200.0	90.00	179.47	11,400.0	-1,848.3	748.2	1,916.2	0.00	0.00	0.00
13,300.0	90.00	179.47	11,400.0	-1,948.3	749.1	2,015.7	0.00	0.00	0.00
13,400.0	90.00	179.47	11,400.0	-2,048.3	750.1	2,115.2	0.00	0.00	0.00
13,500.0 13,600.0 13,700.0	90.00 90.00	179.47 179.47	11,400.0 11,400.0	-2,148.2 -2,248.2	751.0 751.9	2,214.8 2,314.3	0.00 0.00	0.00 0.00	0.00 0.00
13,700.0	90.00	179.47	11,400.0	-2,348.2	752.8	2,413.9	0.00	0.00	0.00
13,800.0	90.00	179.47	11,400.0	-2,448.2	753.8	2,513.4	0.00	0.00	0.00
13,900.0	90.00	179.47	11,400.0	-2,548.2	754.7	2,613.0	0.00	0.00	0.00
14,000.0	90.00	179.47	11,400.0	-2,648.2	755.6	2,712.5	0.00	0.00	0.00
14,100.0	90.00	179.47	11,400.0	-2,748.2	756.5	2,812.1	0.00	0.00	0.00
14,200.0	90.00	179.47	11,400.0	-2,848.2	757.5	2,911.6	0.00	0.00	0.00
14,300.0 14,400.0	90.00	179.47 179.47	11,400.0 11,400.0	-2,948.2 -3,048.2	758.4 759.3	3,011.2 3,110.7	0.00	0.00	0.00
14,500.0	90.00	179.47	11,400.0	-3,148.2	760.2	3,210.3	0.00	0.00	0.00
14,600.0	90.00	179.47	11,400.0	-3,248.2	761.2	3,309.8	0.00	0.00	0.00
14,700.0	90.00	179.47	11,400.0	-3,348.2	762.1	3,409.4	0.00	0.00	0.00
14,800.0 14,900.0	90.00	179.47 179.47	11,400.0 11,400.0	-3,448.2 -3,548.2	763.0 763.9	3,508.9 3,608.5	0.00	0.00	0.00
15,000.0	90.00	179.47	11,400.0	-3,648.2	764.9	3,708.0	0.00	0.00	0.00
15,100.0	90.00	179.47	11,400.0	-3,748.2	765.8	3,807.6	0.00	0.00	0.00
15,200.0	90.00	179.47	11,400.0	-3,848.2	766.7	3,907.1	0.00	0.00	0.00
15,300.0	90.00	179.47	11,400.0	-3,948.2	767.6	4,006.7	0.00	0.00	0.00
15,400.0	90.00	179.47	11,400.0	-4,048.2	768.6	4,106.2	0.00	0.00	0.00
15,500.0	90.00	179.47	11,400.0	-4,148.2	769.5	4,205.8	0.00	0.00	0.00
15,600.0	90.00	179.47	11,400.0	-4,248.2	770.4	4,305.3	0.00	0.00	0.00
15,700.0	90.00	179.47	11,400.0	-4,348.2	771.3	4,404.9	0.00	0.00	0.00
15,800.0	90.00	179.47	11,400.0	-4,448.2	772.2	4,504.4	0.00	0.00	0.00
15,900.0	90.00	179.47	11,400.0	-4,548.1	773.2	4,603.9	0.00	0.00	0.00
16,000.0	90.00	179.47	11,400.0	-4,648.1	774.1	4,703.5	0.00	0.00	
16,100.0	90.00	179.47	11,400.0	-4,748.1	775.0	4,803.0	0.00	0.00	0.00
16,200.0	90.00	179.47	11,400.0	-4,848.1	775.9	4,902.6	0.00	0.00	0.00
16,300.0	90.00	179.47	11,400.0	-4,948.1	776.9	5,002.1	0.00	0.00	0.00
16,400.0	90.00	179.47	11,400.0	-5,048.1	777.8	5,101.7	0.00	0.00	0.00
16,500.0	90.00	179.47	11,400.0	-5,148.1	778.7	5,201.2	0.00	0.00	0.00
16,600.0	90.00	179.47	11,400.0	-5,248.1	779.6	5,300.8	0.00	0.00	0.00
16,700.0	90.00	179.47	11,400.0	-5,348.1	780.6	5,400.3	0.00	0.00	0.00
16,800.0	90.00	179.47	11,400.0	-5,448.1	781.5	5,499.9	0.00	0.00	0.00





Database:EDM 5000.16 Single User DbCompany:Avant Operating, LLCProject:Lea Co., NM (NAD 83)

Site: Sky Dweller
Well: Sky Dweller 14 State Com 008H

Wellbore: OH
Design: Plan 0.1

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

**Survey Calculation Method:** 

WELL @ 4032.5usft (4032.5) WELL @ 4032.5usft (4032.5) Grid

Well Sky Dweller 14 State Com 008H

esign:	Plan 0.1								
lanned 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)
16,900.0	90.00	179.47	11,400.0	-5,548.1	782.4	5,599.4	0.00	0.00	0.00
17,000.0	90.00	179.47	11,400.0	-5,648.1	783.3	5,699.0	0.00	0.00	0.00
17,100.0	90.00	179.47	11,400.0	-5,748.1	784.3	5,798.5	0.00	0.00	0.00
17,200.0	90.00	179.47	11,400.0	-5,848.1	785.2	5,898.1	0.00	0.00	0.00
17,300.0	90.00	179.47	11,400.0	-5,948.1	786.1	5,997.6	0.00	0.00	0.00
17,400.0	90.00	179.47	11,400.0	-6,048.1	787.0	6,097.2	0.00	0.00	0.00
17,500.0	90.00	179.47	11,400.0	-6,148.1	788.0	6,196.7	0.00	0.00	0.00
17,600.0	90.00	179.47	11,400.0	-6,248.1	788.9	6,296.3	0.00	0.00	0.00
17,700.0	90.00	179.47	11,400.0	-6,348.1	789.8	6,395.8	0.00	0.00	0.00
17,800.0	90.00	179.47	11,400.0	-6,448.1	790.7	6,495.4	0.00	0.00	0.00
17,900.0	90.00	179.47	11,400.0	-6,548.1	791.7	6,594.9	0.00	0.00	0.00
18,000.0	90.00	179.47	11,400.0	-6,648.1	792.6	6,694.5	0.00	0.00	0.00
18,100.0	90.00	179.47	11,400.0	-6,748.1	793.5	6,794.0	0.00	0.00	0.00
18,200.0	90.00	179.47	11,400.0	-6,848.0	794.4	6,893.5	0.00	0.00	0.00
18,300.0	90.00	179.47	11,400.0	-6,948.0	795.4	6,993.1	0.00	0.00	0.00
18,400.0	90.00	179.47	11,400.0	-7,048.0	796.3	7,092.6	0.00	0.00	0.00
18,500.0	90.00	179.47	11,400.0	-7,148.0	797.2	7,192.2	0.00	0.00	0.00
18,600.0	90.00	179.47	11,400.0	-7,248.0	798.1	7,291.7	0.00	0.00	0.00
18,700.0	90.00	179.47	11,400.0	-7,348.0	799.1	7,391.3	0.00	0.00	0.00
18,800.0	90.00	179.47	11,400.0	-7,448.0	800.0	7,490.8	0.00	0.00	0.00
18,900.0	90.00	179.47	11,400.0	-7,548.0	800.9	7,590.4	0.00	0.00	0.00
19,000.0	90.00	179.47	11,400.0	-7,648.0	801.8	7,689.9	0.00	0.00	0.00
19,007.6	90.00	179.47	11,400.0	-7,655.6	801.9	7,697.5	0.00	0.00	0.00
TD at 19007.	.6 - Sky Dweller	14 State Com 0	08H 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 cente - Point	0.00 er	0.00	11,400.0	-7,655.6	801.9	631,520.43	786,720.52	32.7335480°N	103.5353369°W
Sky Dweller 14 State Co - plan misses target c - Point	0.00 enter by 170	0.00 9usft at 113	11,400.0 72.8usft MD	66.4 (11281.4 TVD	729.3 , -51.8 N, 695	639,242.41 .1 E)	786,647.95	32.7547727°N	103.5353837°W





Database: EDM 5000.16 Single User Db
Company: Avant Operating, LLC
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Design: Plan 0.1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Sky Dweller 14 State Com 008H WELL @ 4032.5usft (4032.5) WELL @ 4032.5usft (4032.5) Grid Minimum Curvature

ations						
	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			
	5,621.5	5,620.0	CHERRY CANYON			
	5,809.1	5,806.0	BRUSHY CANYON			
	6,811.7	6,800.0	BONE SPRING			
	6,899.4	6,887.0	BONE SPRING LM			
	8,404.4	8,379.0	Top of FBSG SD			
	8,527.4	8,501.0	Top of SBSG Shale			
	9,144.7	9,113.0	Top of SBSG SD			
	9,449.3	9,415.0	Top of TBSG Carb			
	9,671.2	9,635.0	Top of TBSG SD			
	9,764.0	9,727.0	Top WFMP			

lan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment	
5,200.0	5,200.0	0.0	0.0	KOP - Start Build 2.00	
5,575.0	5,574.5	3.9	24.3	Start 4893.0 hold at 5575.6 MD	
10,468.	5 10,425.5	106.1	655.7	Start Drop -2.00	
10,844.	1 10,800.0	110.0	680.0	Start 122.6 hold at 10844.1 MD	
10,966.	7 10,922.6	110.0	680.0	KOP #2 - Start Build 12.00	
11,716.	7 11,400.0	-365.4	724.3	LP - Start 2.0 hold at 11716.7 MD	
11,718.	7 11,400.0	-367.4	724.5	Start DLS 2.00 TFO 90.00	
11,958.	5 11,400.0	-606.8	736.7	Start 7049.1 hold at 11958.5 MD	
19,007.0	11,400.0	-7,655.6	801.9	TD at 19007.6	

Intent		As Dril	led										
API#													
Operator Name: Avant Operating, LLC							Property Name: Sky Dweller 14 State Com						Well Number 008H
Kick C	Off Point (	(KOP)											
UL D	Section 14	Township 18S	Range 34E	Lot	Feet 50		From N	/S	Feet 1320	Fron	n E/W	County Lea	
						Longitude -103.5353839							
First T	ake Poin	t (FTP)											
UL D	Section 14	Township 18S	Range 34E	Lot	Feet 100		From N	/S	Feet 1320	Fron	n E/W	County Lea	
					_	Longitude -103.5353837							
Last T	ake Poin	t (LTP)											
UL E					Feet 2540							ty	
					_	Longitude -103.5353369 NAD							
Is this well the defining well for the Horizontal Spacing Unit? No													
Is this well an infill well?  Yes													
Spacir	ng Unit.	ease provi	ide API if a	availab	le, Opei	rator	Name a	and v	vell numbe	er for	Definir	ng well fo	r Horizontal
API#													
Operator Name: Avant Operating, LLC						Property Name: Sky Dweller 14 State Com							Well Number 006H

KZ 06/29/2018