

Submit 1 Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-025-51528
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Sky Dweller 14 State Com
8. Well Number 007H
9. OGRID Number 330396
10. Pool name or Wildcat Airstrip; Bone Spring & Airstrip; BS, North
4. Well Location Unit Letter <u>C</u> : <u>160</u> feet from the <u>N</u> line and <u>1975</u> feet from the <u>W</u> line Section <u>14</u> Township <u>18S</u> Range <u>34E</u> NMPM County <u>Lea</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4006' KB

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: <u>Update acreage/Target/Name Change</u> ☒	OTHER: ☐

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

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

1. Update the dedicated acreage to 480 ac total for the subject well (320 ac in W/2 of section 14 dedicated to Airstrip; Bone Spring, North pool & 160 ac in NW/4 of section 23 dedicated to Airstrip; Bone Spring pool.
2. Name change from Sky Dweller 007H to " Sky Dweller 14 State Com 607H".
3. Target change from Wolfcamp to "Bone Spring".

Please see attached updated plats, wellbore diagram and directional plans to reflect these changes.

Spud Date:

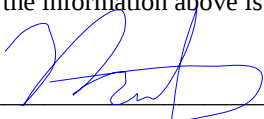
6/6/2023

Rig Release Date:

7/1/2023

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

SIGNATURE



TITLE Contract Regulatory Analyst

DATE 9/21/23

Type or print name Meghan Twele

E-mail address: mtwele@outlook.com

PHONE: 720-339-6880

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

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

☐ AMENDED REPORT

A circular seal for a Professional Surveyor. The outer ring contains the text "PROFESSIONAL SURVEYOR". Inside the ring, at the top, are the letters "N E S O". In the center, the number "14831" is printed. Overlaid on the seal is a handwritten date "8/31/2023" and a signature.

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 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 Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
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 30-025-51528	² Pool Code 960	³ Pool Name Airstrip; Bone Spring
⁴ Property Code 334069	⁵ Property Name SKY DWELLER I4 STATE COM	⁶ Well Number 607H
⁷ OGRID No. 330396	⁸ Operator Name AVANT OPERATING, LLC	⁹ 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
C	14	18 S	34 E		160	NORTH	1975	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
F	23	18 S	34 E		2540	NORTH	2310	WEST	LEA

¹² Dedicated Acres SECTION 23: NW/4; 160 Ac.	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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

Legend:

- = SURFACE LOCATION (SHL)
- = LTP/BHL
- △ = FTP/PPP-1
- = KICK OFF POINT (KOP)
- ◇ = LANDING POINT (LP)
- = FOUND 1913 USGLO BRASS CAP
- = FOUND 1912 USGLO BRASS CAP

SURFACE LOCATION
NAD 83 NME, NMSPC ZONE 3001
Y= 639188.23 N
X= 787303.57 E
LAT: 32.7546102° N
LONG: 103.532526° W

KICK OFF POINT
NAD 83 NME, NMSPC ZONE 3001
50' FNL, 2310' FWL
SEC. 14, T18S, R34E
Y= 639301.12 N
X= 787637.47 E
LAT: 32.7549135° N
LONG: 103.5321638° W

FIRST TAKE POINT/PPP-1
NAD 83 NME, NMSPC ZONE 3001
100' FNL, 2310' FWL
SEC. 14, T18S, R34E
Y= 639251.12 N
X= 787637.91 E
LAT: 32.7547761° N
LONG: 103.5321636° W

LANDING POINT
NAD 83 NME, NMSPC ZONE 3001
525' FNL, 2310' FWL
SEC. 14, T18S, R34E
Y= 638826.14 N
X= 787641.65 E
LAT: 32.7536080° N
LONG: 103.5321619° W

PPP-2
NAD 83 NME, NMSPC ZONE 3001
0' FNL, 2309' FWL
SEC. 23, T18S, R34E
Y= 634068.52 N
X= 787686.53 E
LAT: 32.7405312° N
LONG: 103.5321330° W

BOTTOM HOLE LOCATION
NAD 83 NME, NMSPC ZONE 3001
Y= 631528.63 N
X= 787710.49 E
LAT: 32.7335500° N
LONG: 103.5321176° W

The diagram shows a survey plat for sections 14 and 23. Section 14 is a 36-acre section (6x6 grid) and Section 23 is a 36-acre section (6x6 grid). The well location is marked with a red dot in Section 23. Corner coordinates are provided for all corners of both sections. The well location is defined by bearings and distances from the corners of Section 23.

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] 9/21/23
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.

4/27/23
Date of Survey
Plat Revised: 08/31/23
Signature and Seal of Professional Surveyor:
[Signature]
14831
Certificate Number

CORNER COORDINATES TABLE
NAD 83 NME, NMSPC ZONE 3001

A - Y= 639330.83 N, X= 785327.12 E	A - LAT.=32.7550430° N, LONG.=103.5396776° W
B - Y= 639354.11 N, X= 787977.46 E	B - LAT.=32.7550521° N, LONG.=103.5310567° W
D - Y= 636690.93 N, X= 785350.35 E	D - LAT.=32.7477870° N, LONG.=103.5396664° W
F - Y= 634049.36 N, X= 785377.29 E	F - LAT.=32.7405263° N, LONG.=103.5396432° W
G - Y= 634071.31 N, X= 788022.87 E	G - LAT.=32.7405319° N, LONG.=103.5310391° W
J - Y= 628765.65 N, X= 785425.71 E	J - LAT.=32.7260035° N, LONG.=103.5396144° W
K - Y= 628786.27 N, X= 788074.21 E	K - LAT.=32.7260053° N, LONG.=103.5310023° W

AFE:



Sky Dweller 14 State Com #607H

API:

REGULATORY: NMOCD

PERMIT #

RIG: H&P 460

KB: 4032.5 (26.5')

GL: 4006'

Wolfcamp

Lea County, NM

Sec. 14, T-18S, R-34E; 160 FNL, 1975 FWL

SHL:

Lat: 32.7546102, Long: -103.5332526 (NAD83)

HOLE SIZE	MD	FORMATION	TVD	MUD	CASING	CEMENT	SPECIAL INSTRUCTIONS
	147	20" Conductor	147				
14-3/4"				SPUD MW 8.4 ppg	10 3/4 "	LEAD: 12.8 PPG Top of Lead: 0 50% Excess	Circ cement to surface is a NMOCD requirement Casing must be set 25' into the Rustler MUD: Fresh water only
				Fresh	40.5# J-55 BTC +/- 14 Bowsprings 1 20' pup jt	TAIL: 14.8 PPG Top of Tail: 1440' 20% Excess	
	1,800	Rustler	1,800	TD MW 9.9 ppg	1 joint shoe track	Add dye to spacer	
	1,825	SURF CSG PT	1,825				
9-7/8"	1,910	Salt	1,910	Drillout MW 10 ppg	7.625 "	LEAD: 12.5 PPG Top of Lead: 0' 20% excess	
	3,683	Seven Rivers	3,683		29.7# P-110 HC LTC	TAIL: 14.8 PPG Top of Tail: 7520' 20% Excess	
	4,427	Queen	4,427	Brine			
	5,620	Cherry Canyon	5,620				
	5,806	Brushy Canyon	5,806				
	6,802	Bone Springs	6,800				
	8,384	1st BS Sand	8,379				
	9,119	2nd BS Sand	9,113				
	9,642	3rd BS Sand	9,635	TD MW			
	9,734	Wolfcamp	9,727	10 ppg	1 joint shoe track	Add dye to spacer	
	10,809	INTRM CSG PT	10,800				
6-3/4"				DRLOUT MW 9.2 ppg			
				Cut Brine			
				KOP MW 9.5 ppg			
				CUT BRINE			
				EOC MW 9.5 ppg			
	10,932	KOP	10,923	Lat MW 11 ppg	OBM	TD MW 11 ppg	18,976 ' MD 7,670 ' VS 11,400 ' TVD
	11,682	EOC	11,400				
			12° / 100'				
				Lat Azi = VS Azi = 179.47°	Est BHST = 179°F, Est BHCT = 162°F		
					5.5 "	LEAD: 11 PPG Top of Lead: 0 50% Excess	All aqueous fluids (spacer and disp) left inside or outside of pipe must have biocide & corrosion inhibitor
					20# P-110 HC GBCD	TAIL: 14.8 PPG Top of Tail: 0 20% Excess	

PRELIMINARY

DIRECTIONS TO LOCATION:

Received for Imaging: 9/21/2023 11:35:40 AM

Received by OCD: 9/21/2023 9:56:30 AM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	8842.00	1.54	302.31	8833.10	93.05	211.67	0.0000	0.00	-91.09	
2	8910.02	2.03	311.23	8901.09	94.33	210.00	0.8260	34.06	-92.39	
3	9778.00	85.20	169.35	9487.89	-423.62	295.34	10.0000	-141.97	426.33	
4	10282.07	85.20	179.47	9530.18	-922.87	344.22	2.0000	90.43	926.01	
5	17042.82	85.20	179.47	10096.00	-7659.61	406.90	0.0000	0.00	7663.05	PBHL - Sky Dweller 14 State Com 607H (Prev. 007H)

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP - Sky Dweller 14 State Com 607H (Prev. 007H)	9480.30	62.89	334.35	639251.12	787637.92	32.75478
PBHL - Sky Dweller 14 State Com 607H (Prev. 007H)	10096.00	-7659.61	406.90	631528.62	787710.47	32.73355

PROJECT DETAILS: Lea Co., 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

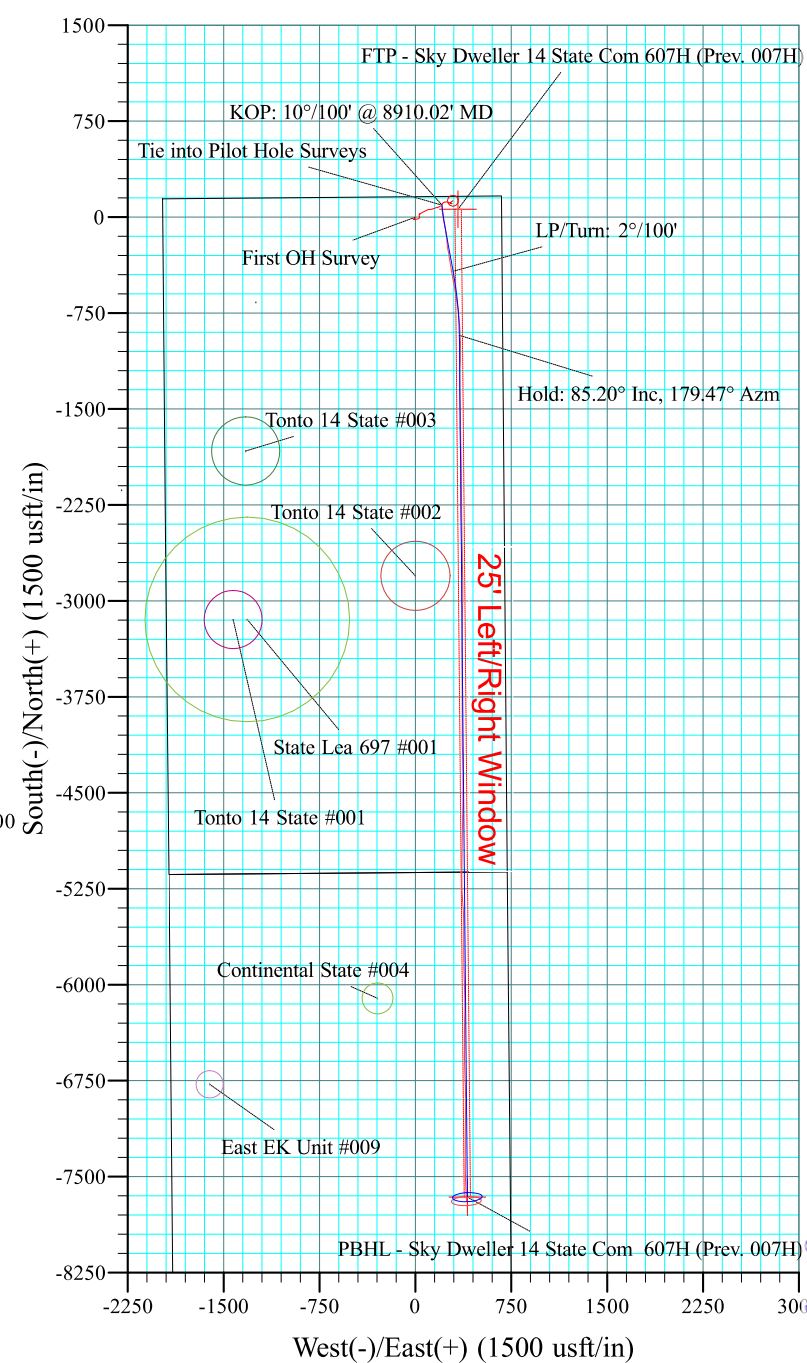
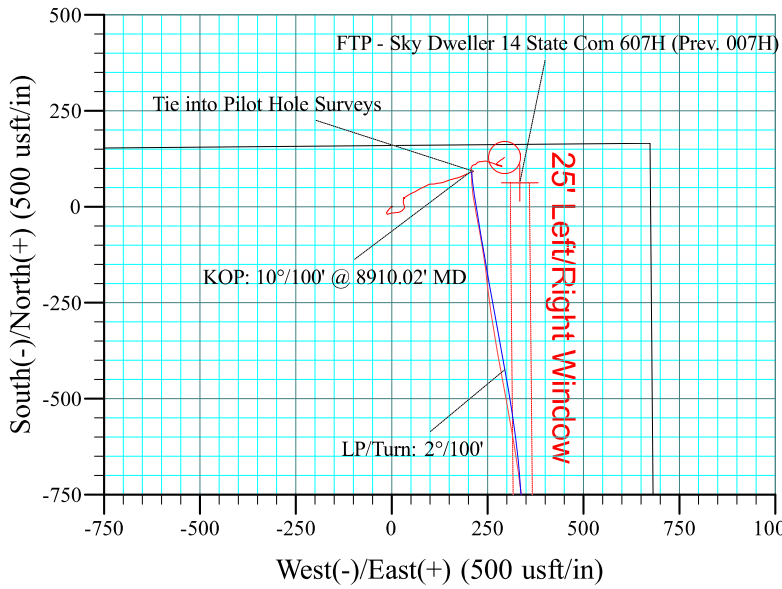
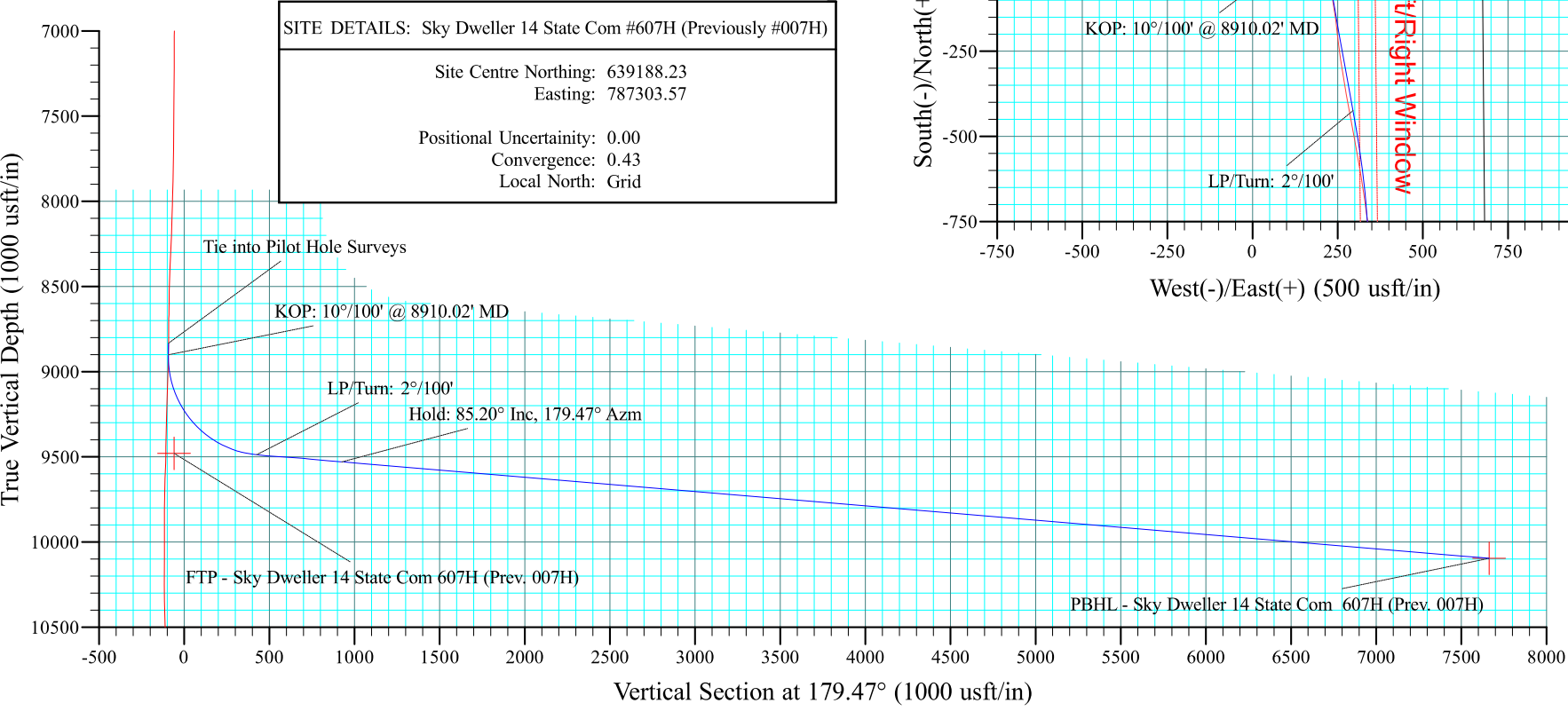
T

G

M

Azimuths to Grid North
True North: -0.43°
Magnetic North: 5.68°

Magnetic Field
Strength: 47630.9nT
Dip Angle: 60.56°
Date: 6/23/2023
Model: MVHD



Avant Operating, LLC

Lea Co., NM (NAD 83)

Sky Dweller 14 State Com #607H (Previously #007H)

Sky Dweller 14 State Com #607H (Previously #007H)

ST01

Plan: Plan 2.0

Standard Planning Report

02 August, 2023

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2.0		

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 14 State Com #607H (Previously #007H)				
Site Position:		Northing:	639,188.23 usft	Latitude:	32.75461
From:	Map	Easting:	787,303.57 usft	Longitude:	-103.53326
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Sky Dweller 14 State Com #607H (Previously #007H)					
Well Position	+N/-S	0.00 usft	Northing:	639,188.23 usft	Latitude:	32.75461
	+E/-W	0.00 usft	Easting:	787,303.57 usft	Longitude:	-103.53326
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,006.00 usft
Grid Convergence:		0.43 °				

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	6/23/2023	6.11	60.56	47,630.88776350

Design	Plan 2.0				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	8,842.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.47	

Plan Survey Tool Program	Date	8/2/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	8,842.00	17,042.82	Plan 2.0 (ST01)	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
8,842.00	1.54	302.31	8,833.10	93.05	211.67	0.0000	0.0000	0.0000	0.00	
8,910.02	2.03	311.23	8,901.09	94.33	210.00	0.8260	0.7203	13.1133	34.06	
9,778.00	85.20	169.35	9,487.89	-423.62	295.34	10.0000	9.5820	-16.3460	-141.97	
10,282.07	85.20	179.47	9,530.18	-922.87	344.22	2.0000	-0.0002	2.0071	90.43	
17,042.82	85.20	179.47	10,096.00	-7,659.61	406.90	0.0000	0.0000	0.0000	0.00	PBHL - Sky Dweller

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2.0		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
205.00	1.01	228.22	204.99	-1.20	-1.35	1.19	0.4927	0.4927	0.0000
294.00	0.04	235.34	293.98	-1.74	-1.96	1.73	1.0902	-1.0899	8.0000
474.00	0.79	229.45	473.98	-2.59	-2.95	2.56	0.4168	0.4167	-3.2722
564.00	0.97	231.65	563.97	-3.46	-4.02	3.43	0.2035	0.2000	2.4444
654.00	0.97	216.88	653.96	-4.54	-5.08	4.50	0.2771	0.0000	-16.4111
743.00	0.84	229.01	742.94	-5.58	-6.02	5.52	0.2594	-0.1461	13.6292
832.00	0.75	220.75	831.94	-6.44	-6.89	6.38	0.1635	-0.1011	-9.2809
921.00	0.62	217.32	920.93	-7.27	-7.57	7.20	0.1531	-0.1461	-3.8539
1,018.00	0.70	206.69	1,017.92	-8.22	-8.15	8.14	0.1504	0.0825	-10.9588
1,112.00	0.70	228.13	1,111.92	-9.11	-8.84	9.03	0.2770	0.0000	22.8085
1,207.00	0.48	219.78	1,206.91	-9.80	-9.52	9.72	0.2480	-0.2316	-8.7895
1,301.00	0.70	229.80	1,300.91	-10.48	-10.21	10.38	0.2576	0.2340	10.6596
1,397.00	0.62	204.49	1,396.90	-11.33	-10.88	11.23	0.3120	-0.0833	-26.3646
1,492.00	0.44	218.20	1,491.90	-12.08	-11.31	11.98	0.2305	-0.1895	14.4316
1,587.00	0.40	227.69	1,586.89	-12.59	-11.78	12.48	0.0843	-0.0421	9.9895
1,682.00	0.57	195.35	1,681.89	-13.27	-12.16	13.16	0.3323	0.1789	-34.0421
1,781.00	0.75	212.93	1,780.88	-14.29	-12.64	14.17	0.2717	0.1818	17.7576
1,898.00	0.44	193.06	1,897.88	-15.37	-13.16	15.25	0.3145	-0.2650	-16.9829
1,993.00	0.57	172.41	1,992.87	-16.20	-13.18	16.07	0.2333	0.1368	-21.7368
2,088.00	0.75	160.63	2,087.87	-17.25	-12.91	17.13	0.2363	0.1895	-12.4000
2,183.00	0.92	154.83	2,182.86	-18.53	-12.38	18.41	0.1996	0.1789	-6.1053
2,279.00	1.14	88.47	2,278.84	-19.20	-11.09	19.10	1.1899	0.2292	-69.1250
2,374.00	1.45	72.65	2,373.82	-18.82	-9.00	18.73	0.4952	0.3263	-16.6526
2,469.00	1.49	74.41	2,468.79	-18.12	-6.67	18.06	0.0635	0.0421	1.8526
2,564.00	1.76	67.12	2,563.75	-17.23	-4.13	17.19	0.3574	0.2842	-7.6737
2,659.00	1.85	76.52	2,658.70	-16.30	-1.30	16.29	0.3253	0.0947	9.8947
2,755.00	2.37	85.75	2,754.64	-15.79	2.19	15.81	0.6454	0.5417	9.6146
2,850.00	2.95	87.42	2,849.54	-15.54	6.59	15.60	0.6159	0.6105	1.7579
2,945.00	3.03	87.24	2,944.41	-15.31	11.54	15.41	0.0848	0.0842	-0.1895
3,039.00	3.38	76.96	3,038.26	-14.56	16.72	14.72	0.7144	0.3723	-10.9362
3,135.00	3.43	65.89	3,134.09	-12.75	22.10	12.95	0.6858	0.0521	-11.5313
3,230.00	2.64	54.11	3,228.96	-10.31	26.47	10.55	1.0554	-0.8316	-12.4000
3,324.00	2.42	52.44	3,322.87	-7.83	29.79	8.10	0.2468	-0.2340	-1.7766
3,419.00	1.71	33.28	3,417.81	-5.42	32.16	5.72	1.0326	-0.7474	-20.1684
3,514.00	1.71	16.23	3,512.76	-2.87	33.34	3.18	0.5336	0.0000	-17.9474
3,609.00	1.36	1.29	3,607.73	-0.39	33.76	0.70	0.5567	-0.3684	-15.7263
3,705.00	1.36	341.16	3,703.70	1.83	33.42	-1.52	0.4951	0.0000	-20.9688
3,799.00	1.14	335.62	3,797.68	3.74	32.67	-3.44	0.2668	-0.2340	-5.8936
3,895.00	1.19	334.39	3,893.66	5.51	31.84	-5.21	0.0582	0.0521	-1.2813
3,990.00	1.14	344.59	3,988.64	7.31	31.17	-7.02	0.2242	-0.0526	10.7368
4,086.00	1.32	346.87	4,084.62	9.31	30.66	-9.02	0.1943	0.1875	2.3750
4,181.00	1.23	353.46	4,179.60	11.38	30.30	-11.10	0.1810	-0.0947	6.9368
4,276.00	1.41	2.08	4,274.57	13.57	30.22	-13.29	0.2816	0.1895	9.0737
4,372.00	1.45	6.82	4,370.54	15.95	30.41	-15.67	0.1300	0.0417	4.9375
4,466.00	0.84	12.27	4,464.52	17.81	30.70	-17.52	0.6585	-0.6489	5.7979
4,562.00	0.75	10.60	4,560.51	19.11	30.96	-18.82	0.0968	-0.0938	-1.7396
4,657.00	0.84	5.94	4,655.50	20.42	31.15	-20.13	0.1166	0.0947	-4.9053
4,752.00	0.79	10.78	4,750.49	21.75	31.34	-21.46	0.0895	-0.0526	5.0947
4,847.00	0.75	13.15	4,845.49	23.00	31.61	-22.71	0.0538	-0.0421	2.4947
4,943.00	0.53	11.48	4,941.48	24.05	31.84	-23.75	0.2300	-0.2292	-1.7396

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2.0		

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)
5,038.00	0.57	100.78	5,036.48	24.39	32.39	-24.09	0.8143	0.0421	94.0000
5,134.00	0.66	108.25	5,132.47	24.13	33.39	-23.82	0.1254	0.0938	7.7813
5,225.00	0.40	162.39	5,223.47	23.66	33.98	-23.34	0.5880	-0.2857	59.4945
5,319.00	0.40	235.51	5,317.47	23.16	33.81	-22.85	0.5069	0.0000	77.7872
5,415.00	0.48	239.21	5,413.46	22.77	33.19	-22.46	0.0884	0.0833	3.8542
5,510.00	0.35	254.14	5,508.46	22.48	32.57	-22.18	0.1769	-0.1368	15.7158
5,605.00	0.40	267.15	5,603.46	22.39	31.95	-22.09	0.1036	0.0526	13.6947
5,700.00	0.92	37.76	5,698.46	22.97	32.09	-22.68	1.2829	0.5474	137.4842
5,796.00	2.24	57.27	5,794.42	24.60	34.14	-24.28	1.4654	1.3750	20.3229
5,890.00	2.90	59.12	5,888.32	26.81	37.73	-26.46	0.7076	0.7021	1.9681
5,985.00	2.86	58.68	5,983.20	29.28	41.81	-28.89	0.0481	-0.0421	-0.4632
6,081.00	2.73	55.07	6,079.09	31.83	45.73	-31.41	0.2279	-0.1354	-3.7604
6,177.00	3.12	64.57	6,174.96	34.26	49.97	-33.80	0.6468	0.4063	9.8958
6,271.00	3.65	66.24	6,268.80	36.56	55.02	-36.05	0.5734	0.5638	1.7766
6,367.00	3.78	61.40	6,364.60	39.31	60.59	-38.75	0.3535	0.1354	-5.0417
6,462.00	3.60	57.01	6,459.40	42.43	65.84	-41.82	0.3525	-0.1895	-4.6211
6,557.00	4.13	62.37	6,554.18	45.64	71.38	-44.98	0.6746	0.5579	5.6421
6,652.00	4.57	69.14	6,648.91	48.58	77.94	-47.86	0.7111	0.4632	7.1263
6,747.00	4.84	59.56	6,743.59	51.96	84.94	-51.17	0.8734	0.2842	-10.0842
6,842.00	3.56	64.22	6,838.34	55.27	91.05	-54.43	1.3933	-1.3474	4.9053
6,938.00	2.59	59.03	6,934.20	57.68	95.59	-56.80	1.0502	-1.0104	-5.4063
7,033.00	2.59	85.05	7,029.10	58.97	99.57	-58.05	1.2271	0.0000	27.3895
7,128.00	3.16	89.79	7,123.98	59.17	104.33	-58.20	0.6496	0.6000	4.9895
7,224.00	3.16	83.11	7,219.84	59.49	109.60	-58.48	0.3834	0.0000	-6.9583
7,319.00	2.73	74.23	7,314.71	60.42	114.38	-59.36	0.6587	-0.4526	-9.3474
7,414.00	2.59	81.53	7,409.61	61.35	118.68	-60.25	0.3855	-0.1474	7.6842
7,509.00	2.73	85.57	7,504.51	61.85	123.06	-60.70	0.2462	0.1474	4.2526
7,603.00	2.68	86.28	7,598.40	62.16	127.48	-60.98	0.0640	-0.0532	0.7553
7,698.00	2.81	74.32	7,693.29	62.93	131.94	-61.71	0.6170	0.1368	-12.5895
7,794.00	3.65	63.25	7,789.14	64.95	136.93	-63.68	1.0860	0.8750	-11.5313
7,889.00	4.09	71.60	7,883.93	67.38	142.85	-66.05	0.7515	0.4632	8.7895
7,984.00	5.10	72.92	7,978.62	69.69	150.10	-68.29	1.0689	1.0632	1.3895
8,079.00	6.46	76.34	8,073.13	72.19	159.33	-70.71	1.4761	1.4316	3.6000
8,174.00	7.82	74.50	8,167.40	75.18	170.75	-73.59	1.4515	1.4316	-1.9368
8,269.00	6.99	67.20	8,261.60	79.14	182.31	-77.46	1.3190	-0.8737	-7.6842
8,365.00	5.76	61.93	8,357.01	83.68	191.94	-81.90	1.4175	-1.2813	-5.4896
8,460.00	4.26	65.27	8,451.64	87.40	199.36	-85.55	1.6079	-1.5789	3.5158
8,556.00	4.62	73.80	8,547.36	89.97	206.31	-88.05	0.7824	0.3750	8.8854
8,651.00	2.77	76.96	8,642.16	91.55	212.22	-89.58	1.9584	-1.9474	3.3263
8,747.00	1.05	279.72	8,738.13	92.22	213.61	-90.24	3.9169	-1.7917	-163.7917
8,842.00	1.54	302.31	8,833.10	93.05	211.67	-91.09	0.7355	0.5158	23.7789
Tie into Pilot Hole Surveys									
8,900.00	1.96	310.20	8,891.08	94.11	210.26	-92.16	0.8260	0.7162	13.6016
8,910.02	2.03	311.23	8,901.09	94.33	210.00	-92.39	0.8260	0.7446	10.2876
KOP: 10°/100' @ 8910.02' MD									
8,950.00	2.70	196.77	8,941.05	93.90	209.19	-91.96	9.9993	1.6879	-286.3031
9,000.00	7.50	178.79	8,990.84	89.50	208.92	-87.57	10.0000	9.5962	-35.9605
9,050.00	12.46	174.91	9,040.07	80.86	209.47	-78.92	10.0000	9.9151	-7.7423
9,100.00	17.44	173.23	9,088.36	68.04	210.83	-66.08	10.0000	9.9631	-3.3707
9,150.00	22.43	172.28	9,135.35	51.13	213.00	-49.16	10.0000	9.9792	-1.9058
9,200.00	27.42	171.66	9,180.68	30.27	215.95	-28.28	10.0000	9.9865	-1.2402

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2.0		

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)
9,250.00	32.42	171.21	9,224.00	5.62	219.67	-3.59	10.0000	9.9904	-0.8827
9,300.00	37.42	170.88	9,264.98	-22.64	224.13	24.71	10.0000	9.9927	-0.6691
9,350.00	42.41	170.61	9,303.32	-54.30	229.29	56.42	10.0000	9.9942	-0.5319
9,400.00	47.41	170.39	9,338.72	-89.10	235.11	91.27	10.0000	9.9952	-0.4389
9,450.00	52.41	170.21	9,370.91	-126.79	241.56	129.02	10.0000	9.9959	-0.3736
9,500.00	57.41	170.04	9,399.64	-167.09	248.57	169.38	10.0000	9.9964	-0.3265
9,550.00	62.41	169.90	9,424.71	-209.67	256.11	212.03	10.0000	9.9968	-0.2919
9,600.00	67.40	169.77	9,445.91	-254.23	264.10	256.66	10.0000	9.9971	-0.2664
9,650.00	72.40	169.64	9,463.08	-300.41	272.49	302.92	10.0000	9.9973	-0.2477
9,700.00	77.40	169.52	9,476.10	-347.88	281.22	350.46	10.0000	9.9974	-0.2343
9,750.00	82.40	169.41	9,484.87	-396.26	290.21	398.92	10.0000	9.9975	-0.2253
9,778.00	85.20	169.35	9,487.89	-423.61	295.34	426.33	10.0000	9.9976	-0.2209
LP/Turn: 2°/100'									
9,800.00	85.20	169.79	9,489.73	-445.17	299.31	447.92	1.9997	-0.0129	2.0067
9,900.00	85.19	171.80	9,498.11	-543.53	315.25	546.43	2.0000	-0.0107	2.0070
10,000.00	85.18	173.81	9,506.51	-642.39	327.73	645.39	2.0000	-0.0049	2.0071
10,100.00	85.18	175.81	9,514.91	-741.62	336.75	744.71	2.0000	0.0010	2.0071
10,200.00	85.19	177.82	9,523.31	-841.11	342.28	844.24	2.0000	0.0069	2.0071
10,282.07	85.20	179.47	9,530.18	-922.87	344.22	926.01	2.0000	0.0122	2.0070
Hold: 85.20° Inc, 179.47° Azm									
10,300.00	85.20	179.47	9,531.68	-940.73	344.38	943.88	0.0000	0.0000	0.0000
10,400.00	85.20	179.47	9,540.05	-1,040.38	345.31	1,043.53	0.0000	0.0000	0.0000
10,500.00	85.20	179.47	9,548.42	-1,140.02	346.24	1,143.18	0.0000	0.0000	0.0000
10,600.00	85.20	179.47	9,556.79	-1,239.67	347.17	1,242.83	0.0000	0.0000	0.0000
10,700.00	85.20	179.47	9,565.16	-1,339.31	348.09	1,342.48	0.0000	0.0000	0.0000
10,800.00	85.20	179.47	9,573.53	-1,438.96	349.02	1,442.12	0.0000	0.0000	0.0000
10,900.00	85.20	179.47	9,581.90	-1,538.60	349.95	1,541.77	0.0000	0.0000	0.0000
11,000.00	85.20	179.47	9,590.27	-1,638.25	350.87	1,641.42	0.0000	0.0000	0.0000
11,100.00	85.20	179.47	9,598.64	-1,737.89	351.80	1,741.07	0.0000	0.0000	0.0000
11,200.00	85.20	179.47	9,607.00	-1,837.54	352.73	1,840.72	0.0000	0.0000	0.0000
11,300.00	85.20	179.47	9,615.37	-1,937.18	353.66	1,940.37	0.0000	0.0000	0.0000
11,400.00	85.20	179.47	9,623.74	-2,036.83	354.58	2,040.02	0.0000	0.0000	0.0000
11,500.00	85.20	179.47	9,632.11	-2,136.47	355.51	2,139.67	0.0000	0.0000	0.0000
11,600.00	85.20	179.47	9,640.48	-2,236.12	356.44	2,239.32	0.0000	0.0000	0.0000
11,700.00	85.20	179.47	9,648.85	-2,335.76	357.36	2,338.97	0.0000	0.0000	0.0000
11,800.00	85.20	179.47	9,657.22	-2,435.41	358.29	2,438.62	0.0000	0.0000	0.0000
11,900.00	85.20	179.47	9,665.59	-2,535.05	359.22	2,538.27	0.0000	0.0000	0.0000
12,000.00	85.20	179.47	9,673.96	-2,634.70	360.15	2,637.91	0.0000	0.0000	0.0000
12,100.00	85.20	179.47	9,682.33	-2,734.34	361.07	2,737.56	0.0000	0.0000	0.0000
12,200.00	85.20	179.47	9,690.70	-2,833.99	362.00	2,837.21	0.0000	0.0000	0.0000
12,300.00	85.20	179.47	9,699.07	-2,933.63	362.93	2,936.86	0.0000	0.0000	0.0000
12,400.00	85.20	179.47	9,707.43	-3,033.28	363.85	3,036.51	0.0000	0.0000	0.0000
12,500.00	85.20	179.47	9,715.80	-3,132.92	364.78	3,136.16	0.0000	0.0000	0.0000
12,600.00	85.20	179.47	9,724.17	-3,232.56	365.71	3,235.81	0.0000	0.0000	0.0000
12,700.00	85.20	179.47	9,732.54	-3,332.21	366.64	3,335.46	0.0000	0.0000	0.0000
12,800.00	85.20	179.47	9,740.91	-3,431.85	367.56	3,435.11	0.0000	0.0000	0.0000
12,900.00	85.20	179.47	9,749.28	-3,531.50	368.49	3,534.76	0.0000	0.0000	0.0000
13,000.00	85.20	179.47	9,757.65	-3,631.14	369.42	3,634.41	0.0000	0.0000	0.0000
13,100.00	85.20	179.47	9,766.02	-3,730.79	370.34	3,734.06	0.0000	0.0000	0.0000
13,200.00	85.20	179.47	9,774.39	-3,830.43	371.27	3,833.70	0.0000	0.0000	0.0000
13,300.00	85.20	179.47	9,782.76	-3,930.08	372.20	3,933.35	0.0000	0.0000	0.0000

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2.0		

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)
13,400.00	85.20	179.47	9,791.13	-4,029.72	373.13	4,033.00	0.0000	0.0000	0.0000
13,500.00	85.20	179.47	9,799.50	-4,129.37	374.05	4,132.65	0.0000	0.0000	0.0000
13,600.00	85.20	179.47	9,807.86	-4,229.01	374.98	4,232.30	0.0000	0.0000	0.0000
13,700.00	85.20	179.47	9,816.23	-4,328.66	375.91	4,331.95	0.0000	0.0000	0.0000
13,800.00	85.20	179.47	9,824.60	-4,428.30	376.83	4,431.60	0.0000	0.0000	0.0000
13,900.00	85.20	179.47	9,832.97	-4,527.95	377.76	4,531.25	0.0000	0.0000	0.0000
14,000.00	85.20	179.47	9,841.34	-4,627.59	378.69	4,630.90	0.0000	0.0000	0.0000
14,100.00	85.20	179.47	9,849.71	-4,727.24	379.62	4,730.55	0.0000	0.0000	0.0000
14,200.00	85.20	179.47	9,858.08	-4,826.88	380.54	4,830.20	0.0000	0.0000	0.0000
14,300.00	85.20	179.47	9,866.45	-4,926.53	381.47	4,929.85	0.0000	0.0000	0.0000
14,400.00	85.20	179.47	9,874.82	-5,026.17	382.40	5,029.49	0.0000	0.0000	0.0000
14,500.00	85.20	179.47	9,883.19	-5,125.82	383.32	5,129.14	0.0000	0.0000	0.0000
14,600.00	85.20	179.47	9,891.56	-5,225.46	384.25	5,228.79	0.0000	0.0000	0.0000
14,700.00	85.20	179.47	9,899.93	-5,325.11	385.18	5,328.44	0.0000	0.0000	0.0000
14,800.00	85.20	179.47	9,908.29	-5,424.75	386.11	5,428.09	0.0000	0.0000	0.0000
14,900.00	85.20	179.47	9,916.66	-5,524.40	387.03	5,527.74	0.0000	0.0000	0.0000
15,000.00	85.20	179.47	9,925.03	-5,624.04	387.96	5,627.39	0.0000	0.0000	0.0000
15,100.00	85.20	179.47	9,933.40	-5,723.69	388.89	5,727.04	0.0000	0.0000	0.0000
15,200.00	85.20	179.47	9,941.77	-5,823.33	389.81	5,826.69	0.0000	0.0000	0.0000
15,300.00	85.20	179.47	9,950.14	-5,922.98	390.74	5,926.34	0.0000	0.0000	0.0000
15,400.00	85.20	179.47	9,958.51	-6,022.62	391.67	6,025.99	0.0000	0.0000	0.0000
15,500.00	85.20	179.47	9,966.88	-6,122.27	392.60	6,125.64	0.0000	0.0000	0.0000
15,600.00	85.20	179.47	9,975.25	-6,221.91	393.52	6,225.28	0.0000	0.0000	0.0000
15,700.00	85.20	179.47	9,983.62	-6,321.56	394.45	6,324.93	0.0000	0.0000	0.0000
15,800.00	85.20	179.47	9,991.99	-6,421.20	395.38	6,424.58	0.0000	0.0000	0.0000
15,900.00	85.20	179.47	10,000.36	-6,520.85	396.30	6,524.23	0.0000	0.0000	0.0000
16,000.00	85.20	179.47	10,008.72	-6,620.49	397.23	6,623.88	0.0000	0.0000	0.0000
16,100.00	85.20	179.47	10,017.09	-6,720.14	398.16	6,723.53	0.0000	0.0000	0.0000
16,200.00	85.20	179.47	10,025.46	-6,819.78	399.09	6,823.18	0.0000	0.0000	0.0000
16,300.00	85.20	179.47	10,033.83	-6,919.42	400.01	6,922.83	0.0000	0.0000	0.0000
16,400.00	85.20	179.47	10,042.20	-7,019.07	400.94	7,022.48	0.0000	0.0000	0.0000
16,500.00	85.20	179.47	10,050.57	-7,118.71	401.87	7,122.13	0.0000	0.0000	0.0000
16,600.00	85.20	179.47	10,058.94	-7,218.36	402.79	7,221.78	0.0000	0.0000	0.0000
16,700.00	85.20	179.47	10,067.31	-7,318.00	403.72	7,321.43	0.0000	0.0000	0.0000
16,800.00	85.20	179.47	10,075.68	-7,417.65	404.65	7,421.07	0.0000	0.0000	0.0000
16,900.00	85.20	179.47	10,084.05	-7,517.29	405.58	7,520.72	0.0000	0.0000	0.0000
17,000.00	85.20	179.47	10,092.42	-7,616.94	406.50	7,620.37	0.0000	0.0000	0.0000
17,042.82	85.20	179.47	10,096.00	-7,659.61	406.90	7,663.04	0.0000	0.0000	0.0000
PBHL									



Sky Dweller 14 State Com #607H (Previously #007H)
Lea Co., NM (NAD 83)
Job No. WT-23-128
Pilot Plan 1.0



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.00	
2	5500.00	0.00	0.00	5500.00	0.00	0.00	0.0000	0.00	0.00	Build: 2°/100'
3	5670.41	3.41	68.90	5670.31	1.82	4.73	2.0000	68.90	5.02	Hold 3.41° Inc, 68.90° Azi
4	10638.58	3.41	68.90	10629.69	108.18	280.27	0.0000	0.00	297.53	Drop: 2°/100'
5	10808.99	0.00	0.00	10800.00	110.00	285.00	2.0000	180.00	302.55	Drill Vertical
6	12008.99	0.00	0.00	12000.00	110.00	285.00	0.0000	0.00	302.55	Pilot TD

DESIGN TARGET DETAILS

No target data is available.

PROJECT DETAILS: Lea Co., 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

SITE DETAILS: Sky Dweller 14 State Com #607H (Previously #007H)

Site Centre Northing: 639188.23
Easting: 787303.57
Positional Uncertainty: 0.00
Convergence: 0.43
Local North: Grid



Azimuths to Grid North
True North: -0.43°
Magnetic North: 5.68°

Magnetic Field
Strength: 47630.9nT
Dip Angle: 60.56°
Date: 6/23/2023
Model: MVHD

Section Line

Build: 2°/100'

Hold 3.41° Inc, 68.90° Azi

Sky Dweller 14 State Com #607H (Previously #007H)

Drop: 2°/100'

Drill Vertical

Pilot TD

Drop: 2°/100'

Drill Vertical

Pilot TD

Avant Operating, LLC

Lea Co., NM (NAD 83)

Sky Dweller 14 State Com #607H (Previously #007H)

Sky Dweller 14 State Com #607H (Previously #007H)

OH

Plan: Pilot Plan 1.0

Standard Planning Report

02 August, 2023

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Pilot Plan 1.0		

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 14 State Com #607H (Previously #007H)									
Site Position:		Northing:		639,188.23 usft		Latitude:		32.75461			
From:		Map		Easting:		787,303.57 usft		Longitude:		-103.53326	
Position Uncertainty:		0.00 usft		Slot Radius:		13-3/16 "					

Well	Sky Dweller 14 State Com #607H (Previously #007H)					
Well Position	+N/-S	0.00 usft	Northing:	639,188.23 usft	Latitude:	32.75461
	+E/-W	0.00 usft	Easting:	787,303.57 usft	Longitude:	-103.53326
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,006.00 usft
Grid Convergence:		0.43 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	6/23/2023	6.11	60.56	47,630.88776350

Design	Pilot Plan 1.0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	60.94

Plan Survey Tool Program	Date	8/2/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,008.99	Pilot Plan 1.0 (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
0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.00	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.0000	0.0000	0.0000	0.00	
5,670.41	3.41	68.90	5,670.31	1.82	4.73	2.0000	2.0000	0.0000	68.90	
10,638.58	3.41	68.90	10,629.69	108.18	280.27	0.0000	0.0000	0.0000	0.00	
10,808.99	0.00	0.00	10,800.00	110.00	285.00	2.0000	-2.0000	0.0000	180.00	
12,008.99	0.00	0.00	12,000.00	110.00	285.00	0.0000	0.0000	0.0000	0.00	

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Pilot Plan 1.0		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.0000	0.0000	0.0000

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Pilot Plan 1.0		

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)
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.0000	0.0000	0.0000
Build: 2°/100									
5,600.00	2.00	68.90	5,599.98	0.63	1.63	1.73	2.0000	2.0000	0.0000
5,670.41	3.41	68.90	5,670.31	1.82	4.73	5.02	2.0000	2.0000	0.0000
Hold 3.41° Inc, 68.90° Azi									
5,700.00	3.41	68.90	5,699.85	2.46	6.37	6.76	0.0002	0.0002	0.0000
5,800.00	3.41	68.90	5,799.67	4.60	11.91	12.65	0.0000	0.0000	0.0000
5,900.00	3.41	68.90	5,899.49	6.74	17.46	18.54	0.0000	0.0000	0.0000
6,000.00	3.41	68.90	5,999.32	8.88	23.01	24.42	0.0000	0.0000	0.0000
6,100.00	3.41	68.90	6,099.14	11.02	28.55	30.31	0.0000	0.0000	0.0000
6,200.00	3.41	68.90	6,198.96	13.16	34.10	36.20	0.0000	0.0000	0.0000
6,300.00	3.41	68.90	6,298.79	15.30	39.65	42.09	0.0000	0.0000	0.0000
6,400.00	3.41	68.90	6,398.61	17.44	45.19	47.97	0.0000	0.0000	0.0000
6,500.00	3.41	68.90	6,498.43	19.58	50.74	53.86	0.0000	0.0000	0.0000
6,600.00	3.41	68.90	6,598.26	21.72	56.28	59.75	0.0000	0.0000	0.0000
6,700.00	3.41	68.90	6,698.08	23.86	61.83	65.64	0.0000	0.0000	0.0000
6,800.00	3.41	68.90	6,797.90	26.01	67.38	71.53	0.0000	0.0000	0.0000
6,900.00	3.41	68.90	6,897.72	28.15	72.92	77.41	0.0000	0.0000	0.0000
7,000.00	3.41	68.90	6,997.55	30.29	78.47	83.30	0.0000	0.0000	0.0000
7,100.00	3.41	68.90	7,097.37	32.43	84.02	89.19	0.0000	0.0000	0.0000
7,200.00	3.41	68.90	7,197.19	34.57	89.56	95.08	0.0000	0.0000	0.0000
7,300.00	3.41	68.90	7,297.02	36.71	95.11	100.96	0.0000	0.0000	0.0000
7,400.00	3.41	68.90	7,396.84	38.85	100.65	106.85	0.0000	0.0000	0.0000
7,500.00	3.41	68.90	7,496.66	40.99	106.20	112.74	0.0000	0.0000	0.0000
7,600.00	3.41	68.90	7,596.49	43.13	111.75	118.63	0.0000	0.0000	0.0000
7,700.00	3.41	68.90	7,696.31	45.27	117.29	124.52	0.0000	0.0000	0.0000
7,800.00	3.41	68.90	7,796.13	47.41	122.84	130.40	0.0000	0.0000	0.0000
7,900.00	3.41	68.90	7,895.96	49.55	128.39	136.29	0.0000	0.0000	0.0000
8,000.00	3.41	68.90	7,995.78	51.69	133.93	142.18	0.0000	0.0000	0.0000
8,100.00	3.41	68.90	8,095.60	53.83	139.48	148.07	0.0000	0.0000	0.0000
8,200.00	3.41	68.90	8,195.43	55.97	145.02	153.96	0.0000	0.0000	0.0000
8,300.00	3.41	68.90	8,295.25	58.11	150.57	159.84	0.0000	0.0000	0.0000
8,400.00	3.41	68.90	8,395.07	60.26	156.12	165.73	0.0000	0.0000	0.0000
8,500.00	3.41	68.90	8,494.89	62.40	161.66	171.62	0.0000	0.0000	0.0000
8,600.00	3.41	68.90	8,594.72	64.54	167.21	177.51	0.0000	0.0000	0.0000
8,700.00	3.41	68.90	8,694.54	66.68	172.76	183.39	0.0000	0.0000	0.0000
8,800.00	3.41	68.90	8,794.36	68.82	178.30	189.28	0.0000	0.0000	0.0000
8,900.00	3.41	68.90	8,894.19	70.96	183.85	195.17	0.0000	0.0000	0.0000
9,000.00	3.41	68.90	8,994.01	73.10	189.39	201.06	0.0000	0.0000	0.0000
9,100.00	3.41	68.90	9,093.83	75.24	194.94	206.95	0.0000	0.0000	0.0000
9,200.00	3.41	68.90	9,193.66	77.38	200.49	212.83	0.0000	0.0000	0.0000
9,300.00	3.41	68.90	9,293.48	79.52	206.03	218.72	0.0000	0.0000	0.0000
9,400.00	3.41	68.90	9,393.30	81.66	211.58	224.61	0.0000	0.0000	0.0000
9,500.00	3.41	68.90	9,493.13	83.80	217.12	230.50	0.0000	0.0000	0.0000
9,600.00	3.41	68.90	9,592.95	85.94	222.67	236.38	0.0000	0.0000	0.0000
9,700.00	3.41	68.90	9,692.77	88.08	228.22	242.27	0.0000	0.0000	0.0000
9,800.00	3.41	68.90	9,792.60	90.22	233.76	248.16	0.0000	0.0000	0.0000

Aim Directional Services

Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Pilot Plan 1.0		

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)
9,900.00	3.41	68.90	9,892.42	92.37	239.31	254.05	0.0000	0.0000	0.0000
10,000.00	3.41	68.90	9,992.24	94.51	244.86	259.94	0.0000	0.0000	0.0000
10,100.00	3.41	68.90	10,092.07	96.65	250.40	265.82	0.0000	0.0000	0.0000
10,200.00	3.41	68.90	10,191.89	98.79	255.95	271.71	0.0000	0.0000	0.0000
10,300.00	3.41	68.90	10,291.71	100.93	261.49	277.60	0.0000	0.0000	0.0000
10,400.00	3.41	68.90	10,391.53	103.07	267.04	283.49	0.0000	0.0000	0.0000
10,500.00	3.41	68.90	10,491.36	105.21	272.59	289.37	0.0000	0.0000	0.0000
10,600.00	3.41	68.90	10,591.18	107.35	278.13	295.26	0.0000	0.0000	0.0000
10,638.58	3.41	68.90	10,629.69	108.18	280.27	297.53	0.0000	0.0000	0.0000
Drop: 2°/100'									
10,700.00	2.18	68.90	10,691.04	109.25	283.07	300.50	2.0001	-2.0001	0.0000
10,808.99	0.00	0.00	10,800.00	110.00	285.00	302.55	2.0000	-2.0000	0.0000
Drill Vertical									
10,900.00	0.00	0.00	10,891.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,000.00	0.00	0.00	10,991.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,100.00	0.00	0.00	11,091.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,200.00	0.00	0.00	11,191.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,300.00	0.00	0.00	11,291.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,400.00	0.00	0.00	11,391.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,500.00	0.00	0.00	11,491.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,600.00	0.00	0.00	11,591.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,700.00	0.00	0.00	11,691.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,800.00	0.00	0.00	11,791.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
11,900.00	0.00	0.00	11,891.01	110.00	285.00	302.55	0.0000	0.0000	0.0000
12,008.99	0.00	0.00	12,000.00	110.00	285.00	302.55	0.0000	0.0000	0.0000
Pilot TD									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
5,500.00	5,500.00	0.00	0.00	Build: 2°/100
5,670.41	5,670.31	1.82	4.73	Hold 3.41° Inc, 68.90° Azi
10,638.58	10,629.69	108.18	280.27	Drop: 2°/100'
10,808.99	10,800.00	110.00	285.00	Drill Vertical
12,008.99	12,000.00	110.00	285.00	Pilot TD

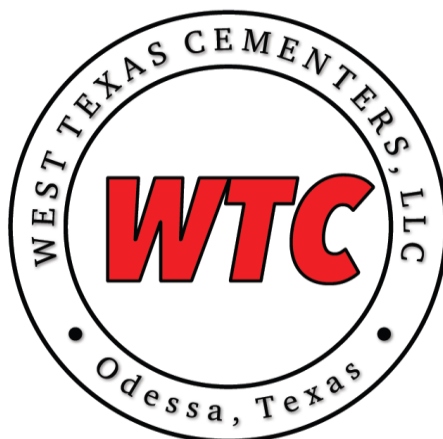
Aim Directional Services
Planning Report

Database:	EDM 5000.17-Aim-DB	Local Co-ordinate Reference:	Well Sky Dweller 14 State Com #607H (Previously #007H)
Company:	Avant Operating, LLC	TVD Reference:	Well @ 4032.50usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 4032.50usft
Site:	Sky Dweller 14 State Com #607H (Previously #007H)	North Reference:	Grid
Well:	Sky Dweller 14 State Com #607H (Previously #007H)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST01		
Design:	Plan 2.0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP - Sky Dweller 14	0.00	0.00	9,480.30	62.89	334.35	639,251.12	787,637.92	32.75478	-103.53217
- plan misses target center by 230.20usft at 9400.00usft MD (9338.72 TVD, -89.10 N, 235.11 E)									
- Point									
PBHL - Sky Dweller 14	0.00	0.00	10,096.00	-7,659.61	406.90	631,528.62	787,710.47	32.73355	-103.53212
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,842.00	8,833.10	93.05	211.67	Tie into Pilot Hole Surveys	
8,910.02	8,901.09	94.33	210.00	KOP: 10°/100' @ 8910.02' MD	
9,778.00	9,487.89	-423.61	295.34	LP/Turn: 2°/100'	
10,282.07	9,530.18	-922.87	344.22	Hold: 85.20° Inc, 179.47° Azm	
17,042.82	10,096.00	-7,659.61	406.90	PBHL	

PROPOSAL#: 230802132608-A



CEMENT PROCEDURE & PROPOSAL

PREPARED FOR:

Mr. Braden Harris

EMAIL: braden@avantnr.com

PHONE NUMBER: 406-600-3310

Avant Natural Resources Sky Dweller 14 State Com #607H

Lea County, NM

Rig: H&P 460

Service Point

Odessa

1400 S JBS Parkway Odessa, TX 79766

432-701-8955

Technical Writer

Jonathan Smith

jonathan@wtcementers.com

432-701-3719

WTC Representative

Jon Reynolds

jon@wtcementers.com

432-257-1234

.Disclaimer Notice:

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

This information is presented in good faith, but no warranty is given by and West Texas Cementers LLC assumes no liability for advice or recommendations made concerning results to be obtained from the use of any product or service. The results given are estimates based on calculations produced by a computer model including various assumptions on the well, reservoir and treatment. The results depend on input data provided by the Operator and estimates as to unknown data and can be no more accurate than the model, the assumptions and such input data. The information presented is WTC LLC best estimate of the actual results that may be achieved and should be used for comparison purposes rather than absolute values. The quality of input data, and hence results, may be improved through the use of certain tests and procedures which West Texas Cementers LLC can assist in selecting. The Operator has superior knowledge of the well, the reservoir, the field and conditions affecting them. If the Operator is aware of any conditions whereby a neighboring well or wells might be affected by the treatment proposed herein it is the Operator's responsibility to notify the owner or owners of the well or wells accordingly. Prices quoted are estimates only and are good for 30 days from the date of issue. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Freedom from infringement of patents of West Texas Cementers LLC or others is not to be inferred.

PRINTED

8/2/2023 13:27

VERSION: v0.29

Avant Natural Resources
 Sky Dweller 14 State Com #607H
 Lea County, NM
 Rig: H&P 460

Surface



PROPOSAL#: 230802132608-A

WELL INFORMATION						
MUD	8.4# Fresh Water					
PREVIOUS PIPE	20" 94# CSG to 147					
OPEN HOLE	14.75" OH to 1825					
CASING/INJECTION	10.75" 40.5# J-55/BTC to 1825					
MD	1825					
TVD	1825					
EST BHST/BHCT	95-F / 88-F (0.8-F/100-FT)					
NOTES	Standby charges start after WTC has been on location for more than 4-hrs.					
VOLUMES						
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Lead	147	15.198	10.75		0.1121	16.5
Lead	1293	14.75	10.75	70%	0.1679	217.1
Tail	385	14.75	10.75	20%	0.1189	45.8
SHOE JOINT	40	10.75	10.05		0.0981	3.9
FLUIDS						
SPACER						
Fresh Water						
VOLUME	20-bbl					
Lead						
35% B_Poz+65% Class C+6% Gel+5% SALT+0.25PPS Pol-E-Flake+0.005GPS NoFoam V1A						
VOLUME	695-SX					
DENSITY	12.8-ppg					
YIELD	1.9-cf/sx					
MIX WATER	10.17-gps					
TOP OF CEMENT	Surface					
EXCESS	69.5%					
						235.2-bbls

235.2-bbls

Avant Natural Resources
Sky Dweller 14 State Com #607H
Lea County, NM
Rig: H&P 460

Surface



PROPOSAL#: 230802132608-A

Tail		
	100% Class C+1% CaCl2+0.005GPS NoFoam V1A	
VOLUME	210-SX	49.7-bbls
DENSITY	14.8-ppg	
YIELD	1.33-cf/sx	
MIX WATER	6.34-gps	
TOP OF CEMENT	1440-ft	
EXCESS	20%	
DISPLACEMENT		
	Displacement	
VOLUME	175.1-bbl	

Avant Natural Resources
 Sky Dweller 14 State Com #607H
 Lea County, NM
 Rig: H&P 460

Multi-Stage Intermediate



PROPOSAL#: 230802132608-A

WELL INFORMATION						
MUD	10# Brine					
PREVIOUS PIPE	10.75" 40.5# CSG to 1825					
OPEN HOLE	9.875" OH to 10809					
CASING/INJECTION	7.625" 29.7# P-110-HC/LTC to 10809					
MD	10809					
TVD	10800					
EST BHST/BHCT	167-F / 139-F (0.8-F/100-FT)					
DV TOOL	2200					
EST BHST/BHCT STG2	98-F / 90-F (0.8-F/100-FT)					
NOTES	Standby charges start after WTC has been on location for more than 12-hrs.					
VOLUMES						
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
1st Stage Lead 1	1825	10.05	7.625	85%	0.0770	140.6
1st Stage Lead 1	375	9.875	7.625	85%	0.0708	26.5
1st Stage Lead 2	5320	9.875	7.625	32%	0.0505	268.6
1st Stage Tail	3289	9.875	7.625	21%	0.0463	152.2
2nd Stage Lead	1610	10.05	7.625	254%	0.1474	237.3
2nd Stage Tail	215	10.05	7.625	0%	0.0416	9.0
2nd Stage Tail	375	9.875	7.625	0%	0.0382	14.3
SHOE JOINT	40	7.625	6.875		0.0459	1.8
FLUIDS						
SPACER						
Fresh Water						
VOLUME	25-bbl					
1st Stage Lead 1						
100% ProLite+5PPS Plexcrete STE+2% SMS+1% R-1300+3PPS Gilsonite+0.005GPS NoFoam V1A						
VOLUME	280-SX					168.6-bbls
DENSITY	10.7-ppg					
YIELD	3.38-cf/sx					
MIX WATER	21.09-gps					
TOP OF CEMENT	Surface					
EXCESS	85%					

168.6-bbls

Avant Natural Resources
 Sky Dweller 14 State Com #607H
 Lea County, NM
 Rig: H&P 460

Multi-Stage Intermediate



PROPOSAL#: 230802132608-A

1st Stage Lead 2

100% ProLite+5PPS Plexcrete STE+2% SMS+0.7% R-1300+3PPS Gilsonite+0.005GPS NoFoam V1A

VOLUME	450-SX	270.9-bbls
DENSITY	10.7-ppg	
YIELD	3.38-cf/sx	
MIX WATER	21.06-gps	
TOP OF CEMENT	2200-ft	
EXCESS	32%	

1st Stage Tail

50% B_Poz+50% Class H+5% SALT+0.2% FR-5+0.2% FL-24+0.005GPS NoFoam V1A

VOLUME	675-SX	152.7-bbls
DENSITY	14.2-ppg	
YIELD	1.27-cf/sx	
MIX WATER	5.79-gps	
TOP OF CEMENT	7520-ft	
EXCESS	21%	

DISPLACEMENT

Displacement

VOLUME	494.4-bbl
--------	-----------

SPACER

Fresh Water

VOLUME	25-bbl
--------	--------

2nd Stage Lead

100% ProLite+5PPS Plexcrete STE+2% SMS+0.7% R-1300+3PPS Gilsonite+0.005GPS NoFoam V1A

VOLUME	395-SX	237.8-bbls
DENSITY	10.7-ppg	
YIELD	3.38-cf/sx	
MIX WATER	21.06-gps	
TOP OF CEMENT	Surface	
EXCESS	254%	

2nd Stage Tail

100% Class C+0.25% FR-5+0.005GPS NoFoam V1A

VOLUME	100-SX	23.7-bbls
DENSITY	14.8-ppg	
YIELD	1.33-cf/sx	
MIX WATER	6.31-gps	

Avant Natural Resources
Sky Dweller 14 State Com #607H
Lea County, NM
Rig: H&P 460

Multi-Stage Intermediate



PROPOSAL#: 230802132608-A

TOP OF CEMENT	1610-ft
EXCESS	0%

Avant Natural Resources
Sky Dweller 14 State Com #607H
Lea County, NM
Rig: H&P 460

Multi-Stage Intermediate



PROPOSAL#: 230802132608-A

DISPLACEMENT	
Displacement	
VOLUME	101-bbl

Avant Natural Resources
 Sky Dweller 14 State Com #607H
 Lea County, NM
 Rig: H&P 460

Kick Off Plug



PROPOSAL#: 230802132608-A

WELL INFORMATION						
MUD	10# OBM					
PREVIOUS PIPE	7.625" 29.7# CSG to 10809					
OPEN HOLE	6.75" OH to 12000					
MD	12000					
EST BHST/BHCT	176-F / 140-F (0.8-F/100-FT)					
EST BHST/BHCT STG2	168-F / 139-F (0.8-F/100-FT)					
DRILL PIPE	4.5" 16.6# DP					
NOTES	Standby charges start after WTC has been on location for more than 6-hrs.					
VOLUMES						
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Plugback	600	6.75	0	20%	0.0531	31.9
KOP	209	6.875	0	22%	0.0560	11.7
KOP	591	6.75	0	22%	0.0540	31.9
FLUIDS						
SPACER						
Wt. Spacer+ 35.65GPB Water+10PPB PolyScrub 4320+116.76PPB Barite+2GPB HoleScrub 4311+1PPB R-33						
VOLUME	19-bbl					
DENSITY	10.5-ppg					
Plugback						
100% Class H+0.2% CRT-201+0.005GPS NoFoam V1A						
VOLUME	155-SX					
DENSITY	15.6-ppg					
YIELD	1.18-cf/sx					
MIX WATER	5.22-gps					
TOP OF CEMENT	11400-ft					
EXCESS	20%					
SPACER						
Wt. Spacer + 35.65GPB Water+10PPB PolyScrub 4320+116.76PPB Barite+2GPB HoleScrub 4311+1PPB R-33						
VOLUME	11-bbl					
DENSITY	10.5-ppg					

Avant Natural Resources
 Sky Dweller 14 State Com #607H
 Lea County, NM
 Rig: H&P 460

Kick Off Plug



PROPOSAL#: 230802132608-A

DISPLACEMENT		
OBM		
VOLUME	148-bbl	
SPACER		
Wt. Spacer + 35.65GPB Water+10PPB PolyScrub 4320+116.76PPB Barite+2GPB HoleScrub 4311+1PPB R-33		
VOLUME	19-bbl	
DENSITY	10.5-ppg	
KOP		
100% Class H+5% SALT+0.05% FR-5+0.8% C-37+0.005GPS NoFoam V1A		
VOLUME	275-SX	44.1-bbls
DENSITY	18-ppg	
YIELD	0.9-cf/sx	
MIX WATER	3.03-gps	
TOP OF CEMENT	10600-ft	
EXCESS	22%	
SPACER		
Wt. Spacer + 35.65GPB Water+10PPB PolyScrub 4320+116.76PPB Barite+2GPB HoleScrub 4311+1PPB R-33		
VOLUME	11-bbl	
DENSITY	10.5-ppg	
DISPLACEMENT		
OBM		
VOLUME	136-bbl	

Avant Natural Resources
 Sky Dweller 14 State Com #607H
 Lea County, NM
 Rig: H&P 460

Production



PROPOSAL#: 230802132608-A

WELL INFORMATION						
MUD	9.4# OBM					
PREVIOUS PIPE	7.625" 29.7# CSG to 10809					
OPEN HOLE	6.75" OH to 19182					
CASING/INJECTION	5.5" 20# P-110/HC-GBCD to 19182					
MD	19182					
TVD	11400					
EST BHST/BHCT	234-F / 218-F (1.35-F/100-FT)					
KOP	10932					
NOTES	Standby charges start after WTC has been on location for more than 8-hrs.					
VOLUMES						
FLUID NAME	LENGTH (ft)	OD (in.)	ID (in.)	XS (%)	FACTOR (bbl/ft)	VOLUME (bbl)
Lead	10809	6.875	5.5	34%	0.0221	238.9
Lead	123	6.75	5.5	34%	0.0199	2.4
Tail	8250	6.75	5.5	20%	0.0178	147.3
SHOE JOINT	80	5.5	4.778		0.0222	1.8
FLUIDS						
SPACER						
Wt. Spacer 36.59GPB Water+10PPB PolyScrub 4320+83.78PPB Barite+2GPB HoleScrub 4311+1PPB R-33						
VOLUME	40-bbl					
DENSITY	9.9-ppg					
Lead						
100% ProLite+5PPS Plexcrete STE+2% SMS+0.85% R-1300+0.5% FL-24+3PPS Gilsonite+0.005GPS NoFoam V1A						
VOLUME	405-SX					
DENSITY	10.7-ppg					
YIELD	3.39-cf/sx					
MIX WATER	21.09-gps					
TOP OF CEMENT	Surface					
EXCESS	33.75%					
	244.5-bbls					

Avant Natural Resources
Sky Dweller 14 State Com #607H
Lea County, NM
Rig: H&P 460

Production



PROPOSAL#: 230802132608-A

Tail		
50% B_Poz+50% Class H+5% SALT+0.05% RCKCAS-100+0.45% R-33+0.5% FL-24+0.005GPS NoFoam V1A		
VOLUME	695-SX	149.8-bbls
DENSITY	14.5-ppg	
YIELD	1.21-cf/sx	
MIX WATER	5.31-gps	
TOP OF CEMENT	10932-ft	
EXCESS	20%	
DISPLACEMENT		
Fresh Water+ 0.25GPT Plexicide 24L+1GPT Corplex		
VOLUME	423.6-bbl	
DENSITY	8.34-ppg	

CHEMICAL DESCRIPTIONS		
CHEMICAL NAME	CODE	DESCRIPTION
B_Poz	WTC228	Poz - Fly Ash, Extender
Class H	WTC101	API Cement
Class C	WTC100	API Cement
M_Poz	WTC280	Poz - Fly Ash, Extender
ProLite		Blended Based Cement
Plexcrete SFA	WTC129	Cement Strength Enhancer
Gel	WTC102	Extender
Micro Crystal	WTC212	Cement Strength Enhancer
Micro Shell	WTC209	Cement Strength Enhancer
WTC1	WTC250	Extender
Plexcrete STE	WTC127	Cement Strength Enhancer
FAR-2	WTC260	Cement Strength Enhancer
Gypsum	WTC111	Free Water Control, Extender
CaCl2	WTC112	Accelerator
SMS	WTC115	Free Water Control, Extender
RCKCAS-100	WTC276	Free Water Control, Anti-Settling Agent
SA-1	WTC264	Free Water Control, Extender
R-33	WTC243	Lignosulfonate Retarder
R-1300	WTC201	Low Temperature Retarder
FR-5	WTC258	Lignosulfonate Retarder
CRT-201	WTC278	Lignosulfonate Retarder
C-37	WTC224	Dispersant, Friction Reducer
FL-24	WTC277	Fluid Loss (polymers/copolymers - 300-F max)
EC-10	WTC120	Expanding Agent
Gas Bond	WTC126	Gas Migration Control (Hydrogen Generating)
Gilsonite	WTC003	Premium Lost Circulation Material, Free Water Control
Pol-E-Flake	WTC106	Lost Circulation Material
Web Seal	WTC133	Premium Fiber Lost Circulation Material
Zone Seal	WTC207	Premium Lost Circulation Material
NoFoam V1A	WTC105	Liquid Defoamer
Water		Fresh Water
PolyScrub 4320	WTC232	Spacer Gelling Agent
Barite	WTC116	Weighting Agent
HoleScrub 4311	WTC281	Surfactant
HoleScrub 4305	WTC213	Surfactant
HoleScrub 4308	WTC215	Surfactant
Soda Ash	WTC164	pH Control
R-33	WTC243	Lignosulfonate Retarder
SuspendaCem 6302	WTC005	Free Water Control, Anti-Settling Agent
Sugar	WTC119	Retarder
AI-1, Acid Inhibitor	WTC015	Corrosion Inhibitor
Plexcide 24L	WTC166	Biocide
Corplex	WTC134	Corrosion Inhibitor
Clay Max	WTC096	KCL Substitute
Zone Seal	WTC207	Premium Lost Circulation Material

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

CONDITIONS

Action 267677

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 267677
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/21/2023