

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Avant Operating, LLC 1515 Wynoop Street, Ste. 700 Denver CO 80202		² OGRID Number 330396	
		³ Reason for Filing Code/ Effective Date RT 2/18/22	
⁴ API Number 30 - 0 25-49330	⁵ Pool Name Antelope Ridge; Bone Spring, North		⁶ Pool Code 2205
⁷ Property Code 331355	⁸ Property Name Golden Tee 31 Federal Com		⁹ Well Number 502H

II. 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	31	22S	35E	1	243	North	1200	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	6	23S	35E	5	2588	North	1264	West	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 2/18/22	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
214984	Plains Marketing, L.P. 333 Clay St., Ste. 1900 Houston TX 77002	O
372422	Lucid Energy Delaware, LLC 3100 McKinnon, Ste. 800 Dallas TX 75201	G

IV. Well Completion Data

²¹ Spud Date 9/12/21	²² Ready Date 2/18/22	²³ TD MD: 18,721 TVD: 10,588	²⁴ PBTD 18,650	²⁵ Perforations 10,859-18,636	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2	13-3/8	1,891	1,085		
12-1/4	9-5/8	5,610	2,990		
8-3/4	5-1/2	18,706	3,015		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Sandra Belt</i>			OIL CONSERVATION DIVISION Approved by: <i>[Signature]</i>		
Printed name: Sandra Belt			Title: Engineer		
Title: Regulatory Analyst			Approval Date: 04/07/22		
E-mail Address: sandra@permanregulatory.com			RT expires on 07/06/22		
Date: 2/18/22	Phone: 432-413-9797				

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) 476-3480 Fax: (505) 476-3482

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

AS-DRILLED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49330	² Pool Code 2205	³ Pool Name Antelope Ridge; Bone Spring, North
⁴ Property Code 331355	⁵ Property Name Golden Tee 31 Fed Com	⁶ Well Number 502H
⁷ OGRID No. 330396	⁸ Operator Name Avant Operating, LLC	⁹ Elevation 3454

¹⁰ Surface Location

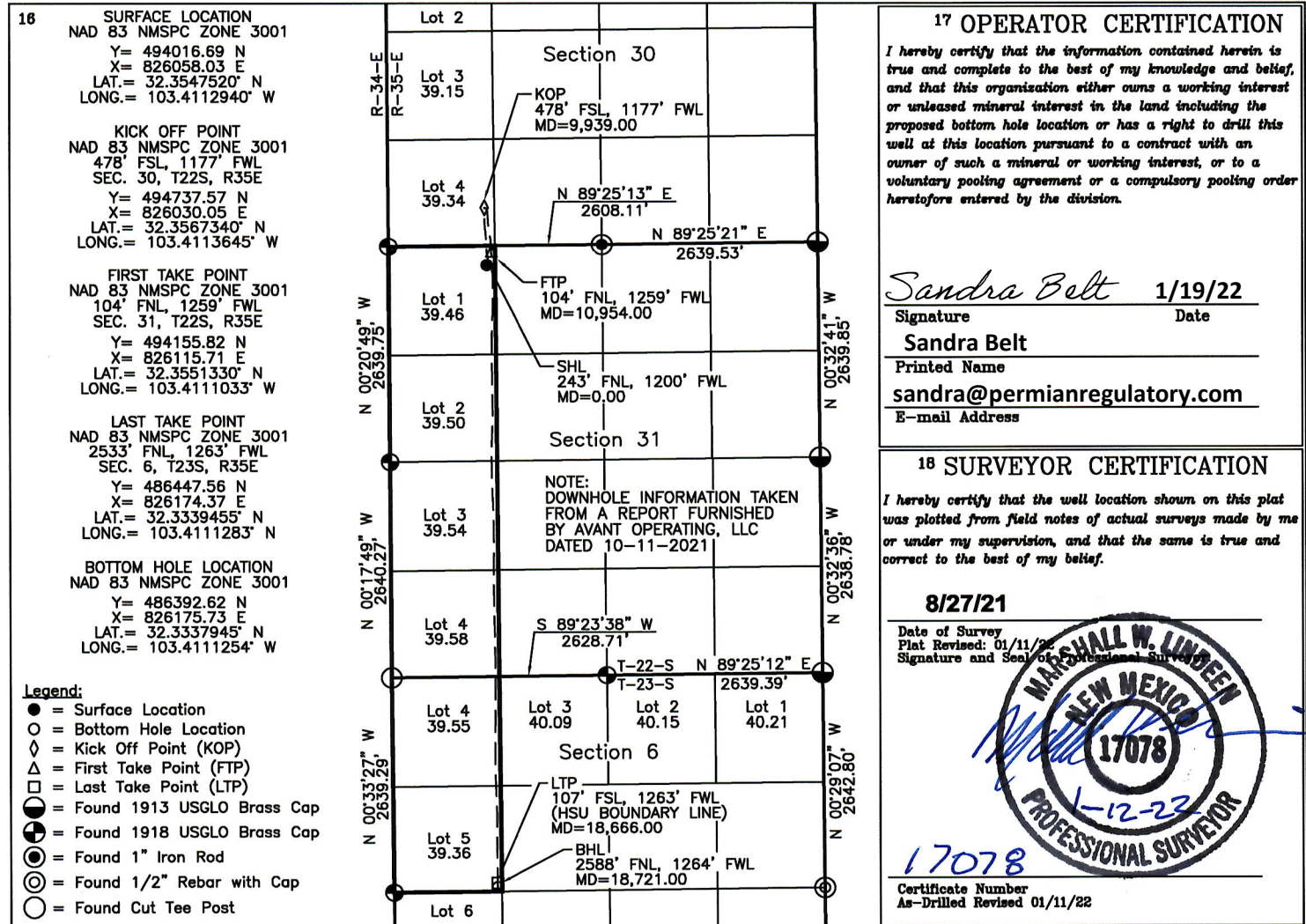
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	31	22 S	35 E	Lot 1	243	North	1200	West	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	6	23 S	35 E	Lot 5	2588	North	1264	West	Lea

¹² Dedicated Acres SEC 31: Lot 1 (39.46), Lot 2 (39.50), Lot 3 (39.54), Lot 4 (39.58); SEC 6: Lot 4 (39.55), Lot 5 (39.36); TOTAL ACRES: 236.99	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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



Released to Imaging: 4/7/2022 8:26:39 AM

Received by OGD: 2/21/2022 6:34:53 PM

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	18666.00	92.22	178.58	10590.27	-7569.13	116.34	0.000	0.00	7569.76		Last Aim Svy
2	18721.00	92.22	178.58	10588.14	-7624.07	117.70	0.000	0.00	7624.71		Proj to BHL

Drawn By: KRN
Date Created: 9/3/2021
Date Revised: 10/11/2021
File: Avant - Golden Tee 13
Fed Com 502H - Plan
1.0.wpc

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP GT 31 Fed Com 502H	10500.00	143.50	53.16	494160.19	826111.19	32° 21' 18.523 N	103° 24' 40.024 W
LTP GT 31 Fed Com 502H	10500.00	-7575.74	106.91	486440.95	826164.94	32° 20' 2.139 N	103° 24' 40.172 W
PBHL GT 31 Fed Com 502H	10500.00	-7575.74	106.91	486440.95	826164.94	32° 20' 2.139 N	103° 24' 40.172 W

SITE DETAILS: Golden Tee 31 Fed Com 502H

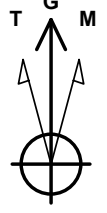
Site Centre Northing: 494016.69
Easting: 826058.03

Positional Uncertainty: 0.00
Convergence: 0.49
Local North: Grid

PROJECT DETAILS: Lea Co., NM (NAD 83)

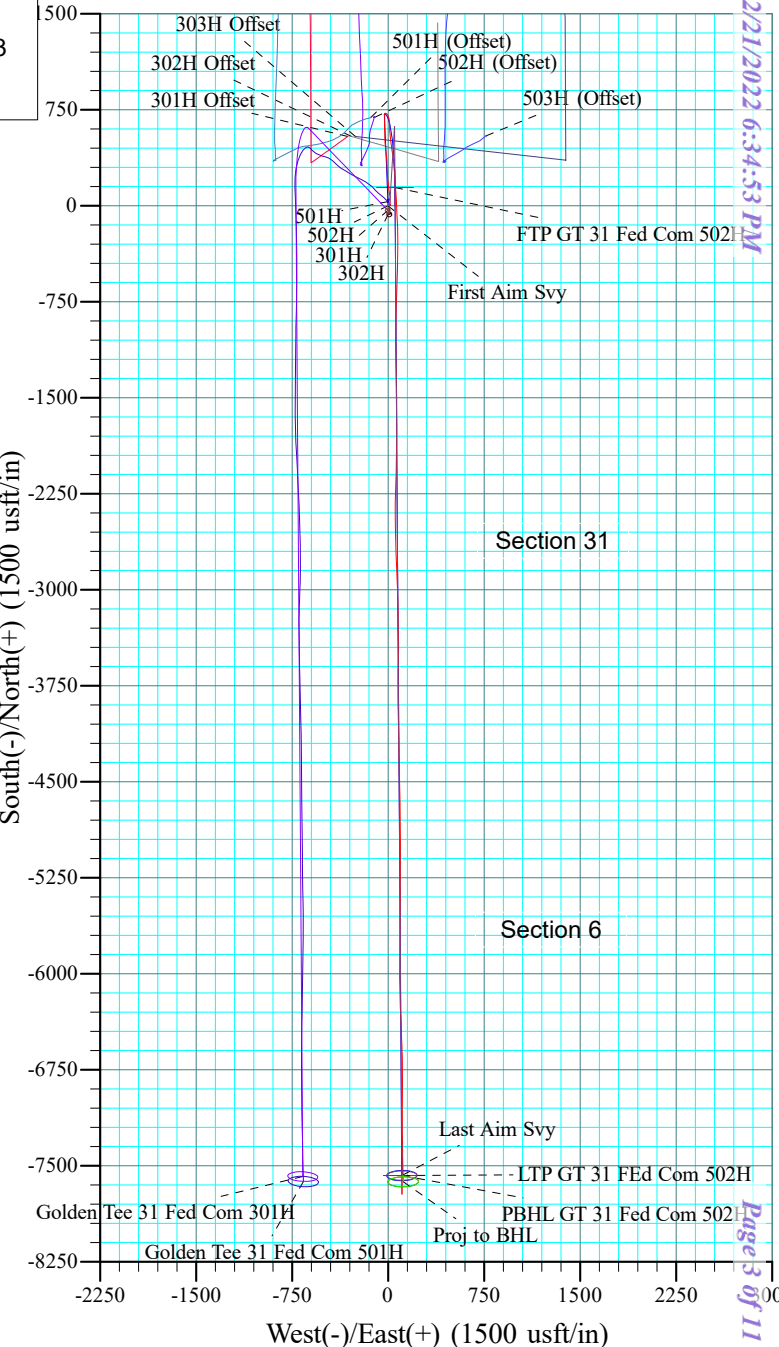
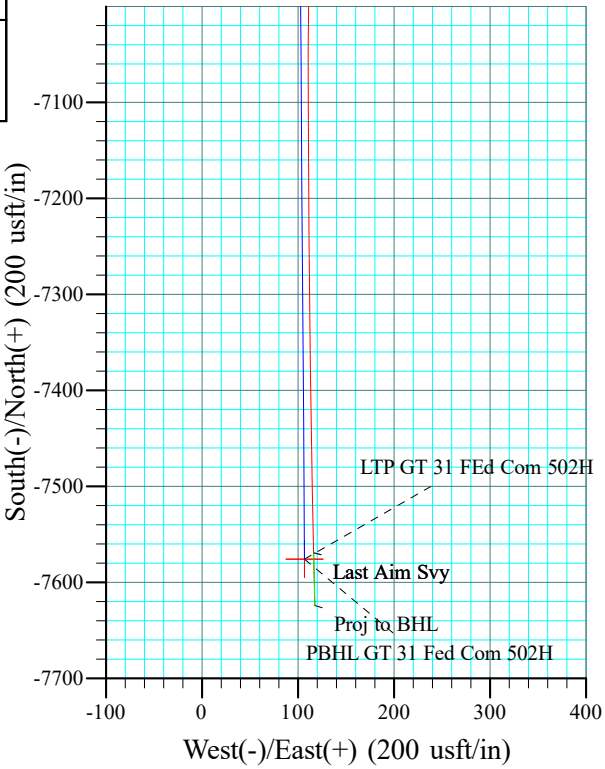
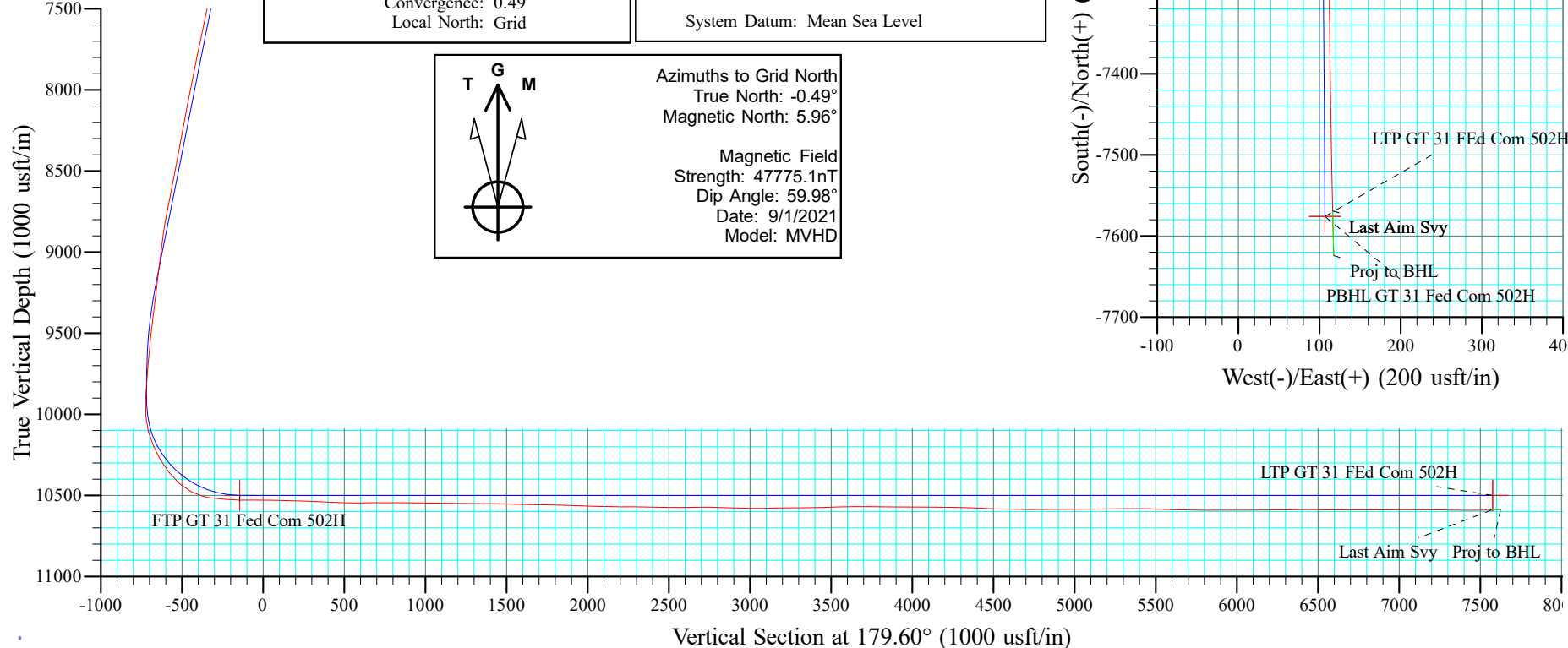
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.49°
Magnetic North: 5.96°

Magnetic Field
Strength: 47775.1nT
Dip Angle: 59.98°
Date: 9/1/2021
Model: MVHD





Aim Directional Services, LLC

Survey Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3480.00usft (H&P 642)
Site:	Golden Tee 31 Fed Com 502H	MD Reference:	Well @ 3480.00usft (H&P 642)
Well:	502H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RTOC- EDM 5000.1 Single User Db

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	Golden Tee 31 Fed Com 502H		
Site Position:		Northing:	494,016.69 usft
From:	Map	Easting:	826,058.03 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 21' 17.107 N
		Longitude:	103° 24' 40.658 W
		Grid Convergence:	0.49 °

Well	502H		
Well Position	+N/-S	0.00 usft	Northing: 494,016.69 usft
	+E/-W	0.00 usft	Easting: 826,058.03 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 21' 17.107 N
		Longitude:	103° 24' 40.658 W
		Ground Level:	3,453.00 usft

Wellbore	Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/1/2021	6.45	59.98	47,775.056

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.60	

Survey Program	Date	10/11/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
226.00	18,721.00	MWD Svy (Drilling)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	
226.00	0.35	200.81	226.00	-0.65	-0.25	0.64	0.155	0.155	0.000	
First Aim Svy										
317.00	0.35	187.72	317.00	-1.18	-0.38	1.18	0.088	0.000	-14.385	
407.00	0.26	177.61	407.00	-1.66	-0.41	1.65	0.116	-0.100	-11.233	
497.00	0.18	135.16	497.00	-1.96	-0.30	1.96	0.195	-0.089	-47.167	
588.00	0.22	119.08	587.99	-2.15	-0.05	2.15	0.075	0.044	-17.670	
678.00	0.22	93.50	677.99	-2.24	0.28	2.24	0.108	0.000	-28.422	
770.00	0.13	124.70	769.99	-2.31	0.54	2.32	0.139	-0.098	33.913	
860.00	0.22	100.79	859.99	-2.40	0.79	2.41	0.127	0.100	-26.567	
950.00	0.09	81.63	949.99	-2.42	1.03	2.43	0.154	-0.144	-21.289	



Aim Directional Services, LLC

Survey Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3480.00usft (H&P 642)
Site:	Golden Tee 31 Fed Com 502H	MD Reference:	Well @ 3480.00usft (H&P 642)
Well:	502H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RTOC- EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,045.00	0.22	324.04	1,044.99	-2.27	1.00	2.27	0.288	0.137	-123.779
1,140.00	0.13	185.17	1,139.99	-2.23	0.88	2.23	0.347	-0.095	-146.179
1,234.00	0.13	22.66	1,233.99	-2.23	0.91	2.24	0.273	0.000	-172.883
1,328.00	0.13	286.86	1,327.99	-2.10	0.85	2.11	0.205	0.000	-101.915
1,423.00	0.04	159.86	1,422.99	-2.10	0.76	2.11	0.166	-0.095	-133.684
1,517.00	0.09	269.72	1,516.99	-2.14	0.70	2.14	0.117	0.053	116.872
1,612.00	0.09	169.79	1,611.99	-2.21	0.64	2.21	0.145	0.000	-105.189
1,706.00	0.18	352.78	1,705.99	-2.14	0.63	2.14	0.287	0.096	-188.308
1,837.00	0.09	129.45	1,836.99	-2.00	0.68	2.00	0.193	-0.069	104.328
2,087.00	1.23	66.34	2,086.97	-1.04	3.29	1.07	0.477	0.456	-25.244
2,182.00	1.45	62.74	2,181.95	-0.08	5.30	0.12	0.248	0.232	-3.789
2,277.00	1.27	59.84	2,276.92	0.99	7.27	-0.94	0.203	-0.189	-3.053
2,371.00	1.23	53.07	2,370.90	2.12	8.98	-2.06	0.163	-0.043	-7.202
2,466.00	1.05	62.39	2,465.88	3.14	10.57	-3.07	0.271	-0.189	9.811
2,561.00	1.14	59.75	2,560.86	4.02	12.16	-3.93	0.109	0.095	-2.779
2,655.00	0.88	71.88	2,654.85	4.72	13.65	-4.62	0.357	-0.277	12.904
2,750.00	0.18	321.40	2,749.84	5.06	14.25	-4.96	1.008	-0.737	-116.294
2,845.00	0.40	280.53	2,844.84	5.24	13.83	-5.14	0.304	0.232	-43.021
2,939.00	0.66	255.83	2,938.84	5.16	12.98	-5.07	0.362	0.277	-26.277
3,128.00	0.75	257.50	3,127.82	4.63	10.72	-4.55	0.049	0.048	0.884
3,223.00	0.57	277.28	3,222.82	4.55	9.64	-4.49	0.303	-0.189	20.821
3,318.00	0.48	252.49	3,317.81	4.49	8.80	-4.43	0.255	-0.095	-26.095
3,507.00	0.62	54.48	3,506.81	4.85	8.87	-4.79	0.575	0.074	85.709
3,602.00	1.41	64.93	3,601.79	5.64	10.35	-5.57	0.851	0.832	11.000
3,697.00	1.71	61.16	3,696.76	6.82	12.65	-6.74	0.334	0.316	-3.968
3,792.00	1.05	78.47	3,791.73	7.68	14.75	-7.58	0.814	-0.695	18.221
3,887.00	1.10	84.09	3,886.71	7.95	16.51	-7.83	0.123	0.053	5.916
3,982.00	0.57	144.65	3,981.71	7.66	17.69	-7.53	1.009	-0.558	63.747
4,076.00	0.84	187.45	4,075.70	6.59	17.87	-6.47	0.609	0.287	45.532
4,171.00	0.79	186.58	4,170.69	5.25	17.70	-5.13	0.054	-0.053	-0.916
4,266.00	0.57	204.42	4,265.68	4.17	17.43	-4.05	0.319	-0.232	18.779
4,360.00	0.40	222.79	4,359.68	3.50	17.01	-3.39	0.243	-0.181	19.543
4,455.00	0.44	180.69	4,454.68	2.90	16.79	-2.78	0.320	0.042	-44.316
4,550.00	0.35	175.59	4,549.67	2.24	16.80	-2.13	0.102	-0.095	-5.368
4,644.00	0.18	240.36	4,643.67	1.88	16.70	-1.77	0.338	-0.181	68.904
4,739.00	0.13	69.94	4,738.67	1.85	16.67	-1.73	0.325	-0.053	-179.389
4,928.00	1.63	349.17	4,927.65	4.56	16.36	-4.45	0.854	0.794	-42.735
5,023.00	2.07	3.24	5,022.60	7.60	16.21	-7.49	0.662	0.463	14.810
5,213.00	1.05	350.58	5,212.53	12.74	16.12	-12.63	0.563	-0.537	-6.663
5,402.00	0.79	345.75	5,401.50	15.71	15.51	-15.61	0.143	-0.138	-2.556
5,558.00	1.01	330.89	5,557.48	17.96	14.58	-17.86	0.204	0.141	-9.526
5,680.00	0.75	348.65	5,679.47	19.68	13.90	-19.58	0.306	-0.213	14.557
5,775.00	3.69	16.24	5,774.39	23.23	14.63	-23.12	3.205	3.095	29.042



Aim Directional Services, LLC

Survey Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3480.00usft (H&P 642)
Site:	Golden Tee 31 Fed Com 502H	MD Reference:	Well @ 3480.00usft (H&P 642)
Well:	502H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RTOC- EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,870.00	8.04	359.54	5,868.87	32.81	15.43	-32.70	4.871	4.579	-17.579
5,965.00	8.75	357.35	5,962.86	46.67	15.05	-46.57	0.820	0.747	-2.305
6,059.00	8.66	357.35	6,055.77	60.88	14.39	-60.78	0.096	-0.096	0.000
6,154.00	8.44	357.26	6,149.72	74.99	13.72	-74.89	0.232	-0.232	-0.095
6,249.00	8.44	354.01	6,243.69	88.89	12.66	-88.80	0.502	0.000	-3.421
6,343.00	9.93	351.99	6,336.48	103.78	10.81	-103.70	1.622	1.585	-2.149
6,438.00	11.47	350.23	6,429.83	121.20	8.07	-121.14	1.657	1.621	-1.853
6,532.00	11.38	348.65	6,521.96	139.50	4.66	-139.46	0.346	-0.096	-1.681
6,627.00	11.12	347.77	6,615.14	157.64	0.87	-157.63	0.328	-0.274	-0.926
6,721.00	11.96	355.24	6,707.24	176.21	-1.86	-176.22	1.822	0.894	7.947
6,816.00	13.05	358.75	6,799.99	196.74	-2.91	-196.76	1.398	1.147	3.695
6,911.00	12.79	358.31	6,892.58	217.98	-3.45	-218.00	0.293	-0.274	-0.463
7,006.00	12.53	356.91	6,985.27	238.78	-4.32	-238.80	0.423	-0.274	-1.474
7,100.00	12.00	356.82	7,077.13	258.72	-5.41	-258.75	0.564	-0.564	-0.096
7,195.00	11.56	356.47	7,170.13	278.08	-6.54	-278.12	0.469	-0.463	-0.368
7,290.00	11.08	357.26	7,263.28	296.70	-7.56	-296.74	0.531	-0.505	0.832
7,384.00	11.25	357.08	7,355.50	314.88	-8.46	-314.93	0.185	0.181	-0.191
7,479.00	12.04	357.70	7,448.54	334.03	-9.33	-334.09	0.842	0.832	0.653
7,574.00	11.21	355.50	7,541.60	353.14	-10.45	-353.20	0.990	-0.874	-2.316
7,669.00	12.09	355.15	7,634.64	372.26	-12.02	-372.33	0.929	0.926	-0.368
7,763.00	12.84	354.97	7,726.42	392.47	-13.77	-392.56	0.799	0.798	-0.191
7,858.00	11.52	354.62	7,819.28	412.43	-15.58	-412.53	1.392	-1.389	-0.368
7,953.00	10.77	353.66	7,912.49	430.70	-17.45	-430.81	0.813	-0.789	-1.011
8,048.00	11.03	352.86	8,005.77	448.54	-19.56	-448.66	0.317	0.274	-0.842
8,142.00	11.34	355.24	8,097.99	466.67	-21.45	-466.81	0.592	0.330	2.532
8,237.00	10.20	354.53	8,191.31	484.35	-23.02	-484.50	1.208	-1.200	-0.747
8,332.00	9.93	353.92	8,284.85	500.87	-24.69	-501.03	0.306	-0.284	-0.642
8,427.00	11.03	357.96	8,378.27	518.10	-25.88	-518.27	1.392	1.158	4.253
8,522.00	11.52	359.72	8,471.43	536.67	-26.25	-536.84	0.630	0.516	1.853
8,616.00	10.77	0.33	8,563.66	554.83	-26.25	-555.00	0.808	-0.798	0.649
8,711.00	10.90	357.87	8,656.97	572.69	-26.53	-572.86	0.506	0.137	-2.589
8,806.00	11.38	356.64	8,750.18	591.02	-27.42	-591.20	0.564	0.505	-1.295
8,901.00	8.97	357.17	8,843.68	607.78	-28.33	-607.96	2.539	-2.537	0.558
8,996.00	6.86	356.47	8,937.77	620.84	-29.05	-621.02	2.223	-2.221	-0.737
9,090.00	6.99	0.07	9,031.08	632.16	-29.38	-632.35	0.482	0.138	3.830
9,185.00	7.56	2.27	9,125.32	644.18	-29.13	-644.37	0.668	0.600	2.316
9,280.00	6.86	4.55	9,219.56	656.08	-28.43	-656.27	0.796	-0.737	2.400
9,375.00	6.29	4.03	9,313.94	666.93	-27.62	-667.11	0.603	-0.600	-0.547
9,469.00	7.30	358.31	9,407.28	678.04	-27.43	-678.21	1.292	1.074	-6.085
9,510.00	7.12	0.25	9,447.95	683.18	-27.50	-683.36	0.738	-0.439	4.732
9,605.00	6.46	357.61	9,542.29	694.41	-27.69	-694.59	0.768	-0.695	-2.779
9,700.00	4.88	354.18	9,636.82	703.77	-28.33	-703.95	1.700	-1.663	-3.611
9,795.00	4.44	354.71	9,731.51	711.45	-29.08	-711.64	0.465	-0.463	0.558



Aim Directional Services, LLC

Survey Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3480.00usft (H&P 642)
Site:	Golden Tee 31 Fed Com 502H	MD Reference:	Well @ 3480.00usft (H&P 642)
Well:	502H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RTOC- EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,889.00	3.78	354.09	9,825.26	718.16	-29.73	-718.35	0.704	-0.702	-0.660
9,984.00	5.05	60.45	9,920.03	723.34	-26.41	-723.50	5.205	1.337	69.852
10,078.00	10.81	115.38	10,013.21	721.60	-14.83	-721.68	9.481	6.128	58.436
10,173.00	16.09	150.36	10,105.71	706.30	-0.23	-706.28	9.970	5.558	36.821
10,268.00	23.60	174.36	10,195.15	675.84	8.17	-675.77	11.515	7.905	25.263
10,362.00	30.11	178.31	10,278.98	633.50	10.72	-633.41	7.177	6.926	4.202
10,457.00	37.80	176.47	10,357.72	580.54	13.22	-580.44	8.166	8.095	-1.937
10,551.00	48.35	172.78	10,426.30	516.76	19.42	-516.61	11.535	11.223	-3.926
10,645.00	62.90	172.16	10,479.23	440.06	29.60	-439.84	15.488	15.479	-0.660
10,722.00	75.52	172.34	10,506.50	368.87	39.28	-368.59	16.391	16.390	0.234
10,764.00	82.64	173.48	10,514.45	327.97	44.36	-327.65	17.160	16.952	2.714
10,859.00	85.54	176.73	10,524.24	233.84	52.42	-233.47	4.571	3.053	3.421
10,947.89	88.38	176.90	10,528.95	145.22	57.35	-144.82	3.195	3.189	0.190
FTP GT 31 Fed Com 502H									
10,954.00	88.57	176.91	10,529.12	139.13	57.68	-138.72	3.195	3.189	0.189
11,049.00	90.42	176.29	10,529.95	44.30	63.31	-43.86	2.054	1.947	-0.653
11,143.00	88.62	177.52	10,530.74	-49.55	68.39	50.03	2.319	-1.915	1.309
11,238.00	89.58	177.08	10,532.23	-144.43	72.86	144.94	1.112	1.011	-0.463
11,332.00	86.90	180.34	10,535.12	-238.34	74.98	238.86	4.488	-2.851	3.468
11,427.00	87.34	180.42	10,539.90	-333.22	74.35	333.73	0.471	0.463	0.084
11,522.00	87.78	179.72	10,543.94	-428.13	74.24	428.64	0.870	0.463	-0.737
11,617.00	88.66	181.92	10,546.89	-523.07	72.88	523.57	2.493	0.926	2.316
11,712.00	90.29	182.53	10,547.76	-617.99	69.19	618.46	1.832	1.716	0.642
11,806.00	91.74	182.18	10,546.10	-711.90	65.33	712.33	1.587	1.543	-0.372
11,901.00	89.85	181.30	10,544.78	-806.84	62.44	807.25	2.194	-1.989	-0.926
11,995.00	89.58	181.48	10,545.25	-900.81	60.16	901.21	0.345	-0.287	0.191
12,089.00	88.62	179.81	10,546.72	-994.79	59.10	995.17	2.049	-1.021	-1.777
12,184.00	88.88	179.46	10,548.79	-1,089.76	59.71	1,090.15	0.459	0.274	-0.368
12,279.00	90.07	178.75	10,549.67	-1,184.74	61.19	1,185.14	1.459	1.253	-0.747
12,373.00	88.97	179.54	10,550.45	-1,278.73	62.60	1,279.13	1.441	-1.170	0.840
12,468.00	89.93	179.10	10,551.36	-1,373.72	63.72	1,374.13	1.112	1.011	-0.463
12,563.00	88.48	179.28	10,552.68	-1,468.69	65.07	1,469.11	1.538	-1.526	0.189
12,658.00	88.48	179.37	10,555.20	-1,563.65	66.18	1,564.08	0.095	0.000	0.095
12,753.00	88.79	179.19	10,557.47	-1,658.62	67.38	1,659.05	0.377	0.326	-0.189
12,848.00	89.49	179.10	10,558.89	-1,753.60	68.80	1,754.04	0.743	0.737	-0.095
12,943.00	87.87	180.95	10,561.08	-1,848.57	68.75	1,849.00	2.588	-1.705	1.947
13,037.00	88.31	181.74	10,564.21	-1,942.49	66.55	1,942.90	0.962	0.468	0.840
13,132.00	88.26	182.36	10,567.06	-2,037.38	63.15	2,037.77	0.654	-0.053	0.653
13,226.00	88.97	182.09	10,569.33	-2,131.28	59.50	2,131.65	0.808	0.755	-0.287
13,320.00	89.89	182.18	10,570.26	-2,225.21	56.00	2,225.55	0.983	0.979	0.096
13,415.00	88.31	180.16	10,571.76	-2,320.17	54.06	2,320.49	2.699	-1.663	-2.126
13,509.00	89.23	179.28	10,573.77	-2,414.15	54.52	2,414.47	1.354	0.979	-0.936
13,603.00	89.93	179.02	10,574.46	-2,508.13	55.92	2,508.46	0.794	0.745	-0.277
13,698.00	90.11	179.02	10,574.43	-2,603.12	57.54	2,603.46	0.189	0.189	0.000



Aim Directional Services, LLC

Survey Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3480.00usft (H&P 642)
Site:	Golden Tee 31 Fed Com 502H	MD Reference:	Well @ 3480.00usft (H&P 642)
Well:	502H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RTOC- EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,792.00	90.77	177.52	10,573.71	-2,697.07	60.38	2,697.43	1.743	0.702	-1.596
13,886.00	88.22	177.43	10,574.54	-2,790.97	64.52	2,791.35	2.714	-2.713	-0.096
13,981.00	88.53	176.82	10,577.23	-2,885.81	69.28	2,886.22	0.720	0.326	-0.642
14,076.00	88.26	178.75	10,579.89	-2,980.70	72.95	2,981.13	2.051	-0.284	2.032
14,170.00	90.68	179.46	10,580.76	-3,074.68	74.42	3,075.12	2.683	2.574	0.755
14,264.00	91.69	178.75	10,578.82	-3,168.64	75.89	3,169.09	1.313	1.074	-0.755
14,359.00	90.24	179.19	10,577.22	-3,263.61	77.60	3,264.07	1.595	-1.526	0.463
14,454.00	91.03	178.05	10,576.16	-3,358.57	79.88	3,359.05	1.460	0.832	-1.200
14,548.00	90.90	180.07	10,574.58	-3,452.54	81.43	3,453.03	2.153	-0.138	2.149
14,643.00	92.26	181.04	10,571.96	-3,547.50	80.51	3,547.98	1.758	1.432	1.021
14,738.00	90.33	181.39	10,569.81	-3,642.45	78.49	3,642.91	2.065	-2.032	0.368
14,832.00	90.42	181.13	10,569.20	-3,736.42	76.43	3,736.87	0.293	0.096	-0.277
14,927.00	88.44	179.28	10,570.14	-3,831.41	76.09	3,831.85	2.852	-2.084	-1.947
15,022.00	89.05	178.93	10,572.22	-3,926.38	77.57	3,926.82	0.740	0.642	-0.368
15,117.00	90.29	178.67	10,572.77	-4,021.35	79.56	4,021.81	1.334	1.305	-0.274
15,211.00	89.32	178.49	10,573.09	-4,115.32	81.89	4,115.79	1.050	-1.032	-0.191
15,306.00	90.24	179.02	10,573.46	-4,210.30	83.95	4,210.78	1.118	0.968	0.558
15,400.00	87.82	179.72	10,575.05	-4,304.27	84.99	4,304.76	2.680	-2.574	0.745
15,495.00	87.52	178.67	10,578.91	-4,399.18	86.32	4,399.68	1.149	-0.316	-1.105
15,590.00	87.60	177.61	10,582.95	-4,494.04	89.40	4,494.56	1.118	0.084	-1.116
15,684.00	89.05	179.54	10,585.70	-4,587.97	91.74	4,588.49	2.567	1.543	2.053
15,778.00	90.68	179.98	10,585.92	-4,681.96	92.13	4,682.49	1.796	1.734	0.468
15,872.00	89.05	179.46	10,586.15	-4,775.96	92.59	4,776.49	1.820	-1.734	-0.553
15,967.00	89.89	179.19	10,587.02	-4,870.95	93.71	4,871.48	0.929	0.884	-0.284
16,062.00	91.03	178.58	10,586.26	-4,965.92	95.56	4,966.47	1.361	1.200	-0.642
16,157.00	90.11	180.25	10,585.32	-5,060.91	96.53	5,061.46	2.007	-0.968	1.758
16,251.00	90.42	180.86	10,584.88	-5,154.90	95.62	5,155.44	0.728	0.330	0.649
16,346.00	91.16	180.42	10,583.57	-5,249.89	94.55	5,250.42	0.906	0.779	-0.463
16,441.00	90.15	179.28	10,582.49	-5,344.88	94.80	5,345.41	1.603	-1.063	-1.200
16,535.00	89.63	180.42	10,582.67	-5,438.87	95.05	5,439.41	1.333	-0.553	1.213
16,630.00	87.08	180.77	10,585.39	-5,533.82	94.06	5,534.34	2.709	-2.684	0.368
16,725.00	88.35	180.51	10,589.18	-5,628.74	93.00	5,629.25	1.365	1.337	-0.274
16,820.00	89.05	180.60	10,591.34	-5,723.71	92.08	5,724.21	0.743	0.737	0.095
16,914.00	90.02	180.86	10,592.10	-5,817.70	90.89	5,818.19	1.068	1.032	0.277
17,009.00	91.25	180.34	10,591.05	-5,912.68	89.89	5,913.17	1.406	1.295	-0.547
17,103.00	89.23	179.54	10,590.65	-6,006.68	89.99	6,007.16	2.311	-2.149	-0.851
17,198.00	89.49	178.67	10,591.71	-6,101.66	91.47	6,102.15	0.956	0.274	-0.916
17,293.00	90.46	177.87	10,591.76	-6,196.61	94.34	6,197.12	1.324	1.021	-0.842
17,387.00	91.74	177.70	10,589.95	-6,290.52	97.97	6,291.06	1.374	1.362	-0.181
17,481.00	89.93	177.96	10,588.58	-6,384.44	101.53	6,385.00	1.945	-1.926	0.277
17,576.00	89.93	178.05	10,588.70	-6,479.39	104.84	6,479.96	0.095	0.000	0.095
17,670.00	88.88	178.75	10,589.67	-6,573.34	107.46	6,573.93	1.342	-1.117	0.745
17,764.00	89.89	178.05	10,590.68	-6,667.30	110.09	6,667.90	1.307	1.074	-0.745



Aim Directional Services, LLC

Survey Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 502H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3480.00usft (H&P 642)
Site:	Golden Tee 31 Fed Com 502H	MD Reference:	Well @ 3480.00usft (H&P 642)
Well:	502H	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RTOC- EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
17,859.00	89.98	179.46	10,590.79	-6,762.27	112.15	6,762.89	1.487	0.095	1.484	
17,954.00	90.55	180.25	10,590.35	-6,857.27	112.39	6,857.89	1.025	0.600	0.832	
18,048.00	91.74	180.77	10,588.47	-6,951.25	111.56	6,951.86	1.381	1.266	0.553	
18,143.00	88.92	180.34	10,587.92	-7,046.23	110.64	7,046.83	3.003	-2.968	-0.453	
18,238.00	89.63	179.28	10,589.13	-7,141.22	110.95	7,141.82	1.343	0.747	-1.116	
18,333.00	89.10	179.54	10,590.18	-7,236.21	111.93	7,236.81	0.621	-0.558	0.274	
18,428.00	89.10	179.72	10,591.67	-7,331.20	112.54	7,331.80	0.189	0.000	0.189	
18,522.00	89.80	179.02	10,592.57	-7,425.18	113.58	7,425.80	1.053	0.745	-0.745	
18,617.00	91.21	178.93	10,591.74	-7,520.16	115.28	7,520.78	1.487	1.484	-0.095	
18,666.00	92.22	178.58	10,590.27	-7,569.13	116.34	7,569.76	2.181	2.061	-0.714	
Last Aim Svy - PBHL GT 31 Fed Com 502H - LTP GT 31 FEed Com 502H										
18,721.00	92.22	178.58	10,588.14	-7,624.07	117.70	7,624.71	0.000	0.000	0.000	
Proj to BHL										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
226.00	226.00	-0.65	-0.25	First Aim Svy	
18,666.00	10,590.27	-7,569.13	116.34	Last Aim Svy	
18,721.00	10,588.14	-7,624.07	117.70	Proj to BHL	

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

ACKNOWLEDGMENTS

Action 83058

ACKNOWLEDGMENTS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 83058
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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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

CONDITIONS

Action 83058

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 83058
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
llowe	RT expires on 07/06/22	4/7/2022