

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: GOLDEN TEE 31 FED COM	Well Location: T22S / R35E / SEC 31 / NENE /	County or Parish/State:
Well Number: 306H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM128836	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549329	Well Status: Approved Application for Permit to Drill	Operator: AVANT OPERATING LLC

Notice of Intent

Sundry ID: 2664244

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 03/29/2022

Time Sundry Submitted: 07:20

Date proposed operation will begin: 04/08/2022

Procedure Description: Request to move SHL 267' north from 850' FNL & 430' FEL to 583' FNL & 430' FEL. SHL was, and still is, on Pad 2. No change in BHL. TVD will change from 9880' to 9800'. MD will change from 17442' to 17413'. Cement volume will change accordingly. No change in pad location or dimensions (330' x 600' (= 4.55 ac.)).

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

AntiCollision_Report_20220329071806.pdf

Well_Bore_20220329071741.pdf

Pad_Plat_20220329071645.pdf

C_102_signed_20220329071543.pdf

Well Name: GOLDEN TEE 31 FED
COM**Well Location:** T22S / R35E / SEC 31 /
NENE /**County or Parish/State:****Well Number:** 306H**Type of Well:** OIL WELL**Allottee or Tribe Name:****Lease Number:** NMNM128836**Unit or CA Name:****Unit or CA Number:****US Well Number:** 3002549329**Well Status:** Approved Application for
Permit to Drill**Operator:** AVANT OPERATING
LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: BRIAN WOOD**Signed on:** APR 27, 2022 01:45 PM**Name:** AVANT OPERATING LLC**Title:** President**Street Address:** 37 VERANO LOOP**City:** SANTA FE**State:** NM**Phone:** (505) 466-8120**Email address:** AFMSS@PERMITSWEST.COM

Field

Representative Name:**Street Address:****City:****State:****Zip:****Phone:****Email address:**

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5752342234**BLM POC Email Address:** cwalls@blm.gov**Disposition:** Approved**Disposition Date:** 05/06/2022**Signature:** Cody R. Layton

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: (505) 748-1283 Fax: (505) 748-0720

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) 476-3482

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

x AMENDED REPORT
moved SHL as
shown below

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49329	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 306H
⁷ GRID No. 330396	⁸ Operator Name Avant Operating, LLC	⁹ Elevation 3505

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	22 S	35 E		583	North	430	East	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
H	6	23 S	35 E		2540	North	330	East	Lea

¹² Dedicated Acres 240.21	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
--	-------------------------------	--	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

SURFACE LOCATION
NAD 83 NMSPC ZONE 3001
Y= 493712.83 N
X= 829679.75 E
LAT.= 32.3538306° N
LONG.= 103.3995753° W

FIRST TAKE POINT
NAD 83 NMSPC ZONE 3001
100' FNL, 330' FEL
SEC. 31, T22S, R35E
Y= 494197.17 N
X= 829774.97 E
LAT.= 32.3551595° N
LONG.= 103.3992533° W

LAST TAKE POINT
NAD 83 NMSPC ZONE 3001
2540' FNL, 330' FEL
SEC. 6, T23S, R35E
Y= 486478.84 N
X= 829845.65 E
LAT.= 32.3339441° N
LONG.= 103.3992424° W

BOTTOM HOLE LOCATION
NAD 83 NMSPC ZONE 3001
Y= 486478.84 N
X= 829845.65 E
LAT.= 32.3339441° N
LONG.= 103.3992424° W

Legend:
● = Surface Location
○ = Bottom Hole Location
△ = First Take Point (FTP)
□ = Last Take Point (LTP)
● = Found 1913 USGLO Brass Cap
⊕ = Found 1918 USGLO Brass Cap
⊙ = Found 1" Iron Rod
⊗ = Found 1/2" Rebar with Cap
○ = Found Cut Tee Post

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.

Brian Wood
Signature **3-28-22**
Date
BRIAN WOOD
Printed Name
brian@permitswest.com
E-mail Address
(505) 466-8120

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.

12/27/21
Date of Survey
Plat Revised: 2/1/22
Signature and Seal

MARSHALL W. LINDEN
NEW MEXICO
17078
2-4-22
PROFESSIONAL SURVEYOR

17078
Certificate Number



Avant Operating, LLC

**Lea Co., NM (NAD 83)
Golden Tee 31 Fed Com 306H
306H**

**Planning
Plan 0.1**

Anticollision Report

12 February, 2022





Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Reference	Plan 0.1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD + Stations Interval 100.00usft
Depth Range:	Unlimited
Results Limited by:	Maximum ellipse separation of 1,000.00 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	2/12/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	17,413.25	Plan 0.1 (Planning)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Golden Tee 31 Fed Com 305H						
305H - Planning - Plan 0.1	5,620.00	5,589.00	1,034.44	994.70	26.035	CC
305H - Planning - Plan 0.1	17,413.25	17,327.60	1,218.27	992.85	5.404	ES, SF
Golden Tee 31 Fed Com 505H						
505H - Planning - Plan 0.1	5,620.00	5,589.00	1,001.94	962.21	25.217	CC
505H - Planning - Plan 0.1	5,700.00	5,664.92	1,002.04	961.75	24.870	ES
505H - Planning - Plan 0.1	17,413.25	18,039.40	1,420.52	1,215.61	6.932	SF
Golden Tee 31 Fed Com 506H						
506H - Planning - Plan 0.1	5,620.00	5,620.00	33.04	-6.80	0.829	Level 1, CC
506H - Planning - Plan 0.1	6,870.43	6,864.83	35.58	-13.10	0.731	Level 1, SF
506H - Planning - Plan 0.1	6,900.00	6,894.29	35.79	-13.12	0.732	Level 1, ES
Golden Tee 31 Fed Com 606H						
606H - Planning - Plan 0.1	9,683.77	9,659.38	75.77	6.17	1.089	Level 2, CC, ES, SF
Winnebago 30 State Com						
506H - OH / 68127 - Surveys (H&P 296)	9,091.18	9,039.44	828.17	767.42	13.633	CC
506H - OH / 68127 - Surveys (H&P 296)	9,100.00	9,047.30	828.18	767.38	13.622	ES
506H - OH / 68127 - Surveys (H&P 296)	9,450.00	9,379.80	834.91	772.14	13.301	SF
507H - OH / 68128 - Surveys (H&P 296)	9,357.62	9,361.20	150.72	87.04	2.367	CC
507H - OH / 68128 - Surveys (H&P 296)	9,372.02	9,375.50	150.74	86.97	2.364	ES
507H - OH / 68128 - Surveys (H&P 296)	9,375.00	9,378.49	150.76	86.97	2.363	SF

Offset Design	Golden Tee 31 Fed Com 305H - 305H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program:	0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-80.37	173.10	-1,019.85	1,034.90					
100.00	100.00	69.00	69.00	0.13	0.09	-80.37	173.10	-1,019.85	1,034.44	1,034.21	0.23	4,553.343		
200.00	200.00	169.00	169.00	0.49	0.38	-80.37	173.10	-1,019.85	1,034.44	1,033.56	0.87	1,182.657		
300.00	300.00	269.00	269.00	0.85	0.74	-80.37	173.10	-1,019.85	1,034.44	1,032.84	1.59	649.929		
400.00	400.00	369.00	369.00	1.21	1.10	-80.37	173.10	-1,019.85	1,034.44	1,032.13	2.31	448.088		
500.00	500.00	469.00	469.00	1.57	1.46	-80.37	173.10	-1,019.85	1,034.44	1,031.41	3.03	341.906		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 305H - 305H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
600.00	600.00	569.00	569.00	1.93	1.82	-80.37	173.10	-1,019.85	1,034.44	1,030.69	3.74	276.407	
700.00	700.00	669.00	669.00	2.29	2.17	-80.37	173.10	-1,019.85	1,034.44	1,029.98	4.46	231.968	
800.00	800.00	769.00	769.00	2.64	2.53	-80.37	173.10	-1,019.85	1,034.44	1,029.26	5.18	199.840	
900.00	900.00	869.00	869.00	3.00	2.89	-80.37	173.10	-1,019.85	1,034.44	1,028.54	5.89	175.528	
1,000.00	1,000.00	969.00	969.00	3.36	3.25	-80.37	173.10	-1,019.85	1,034.44	1,027.83	6.61	156.490	
1,100.00	1,100.00	1,069.00	1,069.00	3.72	3.61	-80.37	173.10	-1,019.85	1,034.44	1,027.11	7.33	141.178	
1,200.00	1,200.00	1,169.00	1,169.00	4.08	3.97	-80.37	173.10	-1,019.85	1,034.44	1,026.39	8.04	128.596	
1,300.00	1,300.00	1,269.00	1,269.00	4.44	4.32	-80.37	173.10	-1,019.85	1,034.44	1,025.67	8.76	118.072	
1,400.00	1,400.00	1,369.00	1,369.00	4.79	4.68	-80.37	173.10	-1,019.85	1,034.44	1,024.96	9.48	109.141	
1,500.00	1,500.00	1,469.00	1,469.00	5.15	5.04	-80.37	173.10	-1,019.85	1,034.44	1,024.24	10.19	101.466	
1,600.00	1,600.00	1,569.00	1,569.00	5.51	5.40	-80.37	173.10	-1,019.85	1,034.44	1,023.52	10.91	94.799	
1,700.00	1,700.00	1,669.00	1,669.00	5.87	5.76	-80.37	173.10	-1,019.85	1,034.44	1,022.81	11.63	88.955	
1,800.00	1,800.00	1,769.00	1,769.00	6.23	6.12	-80.37	173.10	-1,019.85	1,034.44	1,022.09	12.35	83.789	
1,900.00	1,900.00	1,869.00	1,869.00	6.59	6.48	-80.37	173.10	-1,019.85	1,034.44	1,021.37	13.06	79.190	
2,000.00	2,000.00	1,969.00	1,969.00	6.95	6.83	-80.37	173.10	-1,019.85	1,034.44	1,020.66	13.78	75.070	
2,100.00	2,100.00	2,069.00	2,069.00	7.30	7.19	-80.37	173.10	-1,019.85	1,034.44	1,019.94	14.50	71.357	
2,200.00	2,200.00	2,169.00	2,169.00	7.66	7.55	-80.37	173.10	-1,019.85	1,034.44	1,019.22	15.21	67.994	
2,300.00	2,300.00	2,269.00	2,269.00	8.02	7.91	-80.37	173.10	-1,019.85	1,034.44	1,018.51	15.93	64.934	
2,400.00	2,400.00	2,369.00	2,369.00	8.38	8.27	-80.37	173.10	-1,019.85	1,034.44	1,017.79	16.65	62.138	
2,500.00	2,500.00	2,469.00	2,469.00	8.74	8.63	-80.37	173.10	-1,019.85	1,034.44	1,017.07	17.36	59.572	
2,600.00	2,600.00	2,569.00	2,569.00	9.10	8.99	-80.37	173.10	-1,019.85	1,034.44	1,016.35	18.08	57.210	
2,700.00	2,700.00	2,669.00	2,669.00	9.45	9.34	-80.37	173.10	-1,019.85	1,034.44	1,015.64	18.80	55.028	
2,800.00	2,800.00	2,769.00	2,769.00	9.81	9.70	-80.37	173.10	-1,019.85	1,034.44	1,014.92	19.52	53.007	
2,900.00	2,900.00	2,869.00	2,869.00	10.17	10.06	-80.37	173.10	-1,019.85	1,034.44	1,014.20	20.23	51.128	
3,000.00	3,000.00	2,969.00	2,969.00	10.53	10.42	-80.37	173.10	-1,019.85	1,034.44	1,013.49	20.95	49.379	
3,100.00	3,100.00	3,069.00	3,069.00	10.89	10.78	-80.37	173.10	-1,019.85	1,034.44	1,012.77	21.67	47.745	
3,200.00	3,200.00	3,169.00	3,169.00	11.25	11.14	-80.37	173.10	-1,019.85	1,034.44	1,012.05	22.38	46.215	
3,300.00	3,300.00	3,269.00	3,269.00	11.61	11.49	-80.37	173.10	-1,019.85	1,034.44	1,011.34	23.10	44.781	
3,400.00	3,400.00	3,369.00	3,369.00	11.96	11.85	-80.37	173.10	-1,019.85	1,034.44	1,010.62	23.82	43.433	
3,500.00	3,500.00	3,469.00	3,469.00	12.32	12.21	-80.37	173.10	-1,019.85	1,034.44	1,009.90	24.53	42.164	
3,600.00	3,600.00	3,569.00	3,569.00	12.68	12.57	-80.37	173.10	-1,019.85	1,034.44	1,009.19	25.25	40.967	
3,700.00	3,700.00	3,669.00	3,669.00	13.04	12.93	-80.37	173.10	-1,019.85	1,034.44	1,008.47	25.97	39.836	
3,800.00	3,800.00	3,769.00	3,769.00	13.40	13.29	-80.37	173.10	-1,019.85	1,034.44	1,007.75	26.68	38.765	
3,900.00	3,900.00	3,869.00	3,869.00	13.76	13.65	-80.37	173.10	-1,019.85	1,034.44	1,007.03	27.40	37.751	
4,000.00	4,000.00	3,969.00	3,969.00	14.11	14.00	-80.37	173.10	-1,019.85	1,034.44	1,006.32	28.12	36.788	
4,100.00	4,100.00	4,069.00	4,069.00	14.47	14.36	-80.37	173.10	-1,019.85	1,034.44	1,005.60	28.84	35.874	
4,200.00	4,200.00	4,169.00	4,169.00	14.83	14.72	-80.37	173.10	-1,019.85	1,034.44	1,004.88	29.55	35.003	
4,300.00	4,300.00	4,269.00	4,269.00	15.19	15.08	-80.37	173.10	-1,019.85	1,034.44	1,004.17	30.27	34.174	
4,400.00	4,400.00	4,369.00	4,369.00	15.55	15.44	-80.37	173.10	-1,019.85	1,034.44	1,003.45	30.99	33.384	
4,500.00	4,500.00	4,469.00	4,469.00	15.91	15.80	-80.37	173.10	-1,019.85	1,034.44	1,002.73	31.70	32.629	
4,600.00	4,600.00	4,569.00	4,569.00	16.27	16.15	-80.37	173.10	-1,019.85	1,034.44	1,002.02	32.42	31.907	
4,700.00	4,700.00	4,669.00	4,669.00	16.62	16.51	-80.37	173.10	-1,019.85	1,034.44	1,001.30	33.14	31.217	
4,800.00	4,800.00	4,769.00	4,769.00	16.98	16.87	-80.37	173.10	-1,019.85	1,034.44	1,000.58	33.85	30.556	
4,900.00	4,900.00	4,869.00	4,869.00	17.34	17.23	-80.37	173.10	-1,019.85	1,034.44	999.86	34.57	29.922	
5,000.00	5,000.00	4,969.00	4,969.00	17.70	17.59	-80.37	173.10	-1,019.85	1,034.44	999.15	35.29	29.314	
5,100.00	5,100.00	5,069.00	5,069.00	18.06	17.95	-80.37	173.10	-1,019.85	1,034.44	998.43	36.00	28.730	
5,200.00	5,200.00	5,169.00	5,169.00	18.42	18.31	-80.37	173.10	-1,019.85	1,034.44	997.71	36.72	28.170	
5,300.00	5,300.00	5,269.00	5,269.00	18.77	18.66	-80.37	173.10	-1,019.85	1,034.44	997.00	37.44	27.630	
5,400.00	5,400.00	5,369.00	5,369.00	19.13	19.02	-80.37	173.10	-1,019.85	1,034.44	996.28	38.16	27.111	
5,500.00	5,500.00	5,469.00	5,469.00	19.49	19.38	-80.37	173.10	-1,019.85	1,034.44	995.56	38.87	26.611	
5,600.00	5,600.00	5,569.00	5,569.00	19.85	19.74	-80.37	173.10	-1,019.85	1,034.44	994.85	39.59	26.129	
5,620.00	5,620.00	5,589.00	5,589.00	19.92	19.81	-80.37	173.10	-1,019.85	1,034.44	994.70	39.73	26.035 CC	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 305H - 305H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,620.11	5,620.11	5,589.11	5,589.11	19.92	19.81	-80.37	173.10	-1,019.85	1,034.44	994.70	39.73	26.034	
5,700.00	5,700.00	5,665.10	5,665.10	20.21	20.08	-90.44	173.27	-1,019.91	1,034.53	994.24	40.29	25.676	
5,800.00	5,799.97	5,757.14	5,757.13	20.57	20.41	-90.47	174.65	-1,020.38	1,035.31	994.34	40.98	25.266	
5,900.00	5,899.89	5,849.18	5,849.11	20.92	20.74	-90.52	177.43	-1,021.34	1,036.87	995.22	41.66	24.891	
6,000.00	5,999.72	5,941.20	5,941.03	21.28	21.07	-90.57	181.61	-1,022.78	1,039.22	996.88	42.33	24.548	
6,100.00	6,099.44	6,033.19	6,032.84	21.64	21.40	-90.64	187.18	-1,024.70	1,042.35	999.34	43.01	24.235	
6,200.00	6,199.01	6,125.16	6,124.51	22.00	21.73	-90.71	194.14	-1,027.09	1,046.26	1,002.58	43.68	23.951	
6,300.00	6,298.40	6,218.75	6,217.67	22.35	22.06	-90.79	202.62	-1,030.01	1,050.94	1,006.58	44.36	23.690	
6,400.00	6,397.59	6,318.55	6,316.96	22.71	22.42	-90.95	212.12	-1,033.28	1,055.89	1,010.82	45.07	23.426	
6,500.00	6,496.54	6,418.27	6,416.17	23.06	22.77	-91.20	221.62	-1,036.54	1,060.89	1,015.10	45.79	23.170	
6,600.00	6,595.23	6,517.88	6,515.27	23.42	23.13	-91.54	231.10	-1,039.81	1,065.97	1,019.47	46.50	22.923	
6,700.00	6,693.62	6,617.34	6,614.23	23.78	23.49	-91.97	240.57	-1,043.07	1,071.15	1,023.93	47.22	22.685	
6,800.00	6,791.68	6,716.63	6,713.01	24.14	23.84	-92.48	250.02	-1,046.32	1,076.49	1,028.55	47.94	22.456	
6,870.43	6,860.52	6,786.43	6,782.46	24.40	24.10	-92.89	256.67	-1,048.60	1,080.36	1,031.92	48.45	22.301	
6,900.00	6,889.40	6,815.72	6,811.60	24.51	24.20	-93.09	259.45	-1,049.56	1,082.02	1,033.36	48.66	22.237	
7,000.00	6,987.02	6,914.76	6,910.14	24.88	24.56	-93.75	268.88	-1,052.81	1,087.72	1,038.33	49.38	22.025	
7,100.00	7,084.65	7,013.80	7,008.67	25.25	24.92	-94.41	278.31	-1,056.05	1,093.56	1,043.44	50.11	21.822	
7,200.00	7,182.28	7,112.83	7,107.20	25.62	25.27	-95.05	287.74	-1,059.30	1,099.54	1,048.70	50.85	21.625	
7,300.00	7,279.91	7,211.87	7,205.74	26.00	25.63	-95.69	297.17	-1,062.54	1,105.67	1,054.09	51.58	21.436	
7,400.00	7,377.54	7,310.91	7,304.27	26.38	25.99	-96.33	306.60	-1,065.79	1,111.93	1,059.62	52.32	21.253	
7,500.00	7,475.16	7,409.95	7,402.81	26.76	26.35	-96.96	316.03	-1,069.03	1,118.33	1,065.28	53.06	21.078	
7,600.00	7,572.79	7,508.98	7,501.34	27.14	26.71	-97.58	325.46	-1,072.28	1,124.87	1,071.07	53.80	20.908	
7,700.00	7,670.42	7,608.02	7,599.88	27.53	27.07	-98.19	334.89	-1,075.52	1,131.54	1,076.99	54.55	20.744	
7,800.00	7,768.05	7,707.06	7,698.41	27.92	27.44	-98.79	344.32	-1,078.76	1,138.33	1,083.04	55.29	20.587	
7,900.00	7,865.68	7,806.10	7,796.95	28.31	27.80	-99.39	353.74	-1,082.01	1,145.25	1,089.21	56.04	20.435	
8,000.00	7,963.30	7,905.14	7,895.48	28.70	28.16	-99.98	363.17	-1,085.25	1,152.30	1,095.50	56.80	20.288	
8,100.00	8,060.93	8,004.17	7,994.01	29.09	28.52	-100.57	372.60	-1,088.50	1,159.47	1,101.92	57.55	20.147	
8,121.60	8,082.02	8,025.56	8,015.29	29.18	28.60	-100.69	374.64	-1,089.20	1,161.03	1,103.32	57.71	20.117	
8,200.00	8,158.67	8,103.28	8,092.62	29.49	28.89	-101.17	382.04	-1,091.74	1,166.65	1,108.35	58.31	20.009	
8,300.00	8,256.76	8,202.58	8,191.41	29.88	29.25	-101.71	391.49	-1,095.00	1,173.60	1,114.54	59.06	19.871	
8,400.00	8,355.17	8,302.05	8,290.38	30.27	29.62	-102.15	400.96	-1,098.26	1,180.26	1,120.45	59.82	19.732	
8,500.00	8,453.88	8,401.67	8,389.49	30.66	29.98	-102.51	410.45	-1,101.52	1,186.60	1,126.03	60.57	19.592	
8,600.00	8,552.85	8,501.40	8,488.71	31.05	30.35	-102.77	419.94	-1,104.79	1,192.58	1,131.26	61.32	19.450	
8,700.00	8,652.06	8,601.20	8,588.01	31.43	30.72	-102.95	429.44	-1,108.06	1,198.19	1,136.12	62.06	19.306	
8,800.00	8,751.47	8,701.06	8,687.36	31.81	31.08	-103.04	438.95	-1,111.33	1,203.40	1,140.60	62.81	19.160	
8,900.00	8,851.05	8,803.47	8,789.27	32.18	31.46	-103.06	448.54	-1,114.63	1,208.19	1,144.63	63.56	19.009	
9,000.00	8,950.78	8,909.53	8,894.95	32.55	31.85	-103.05	458.95	-1,117.52	1,212.16	1,147.83	64.32	18.845	
9,100.00	9,050.62	9,015.66	9,000.85	32.92	32.24	-103.04	468.51	-1,119.78	1,215.23	1,150.15	65.08	18.673	
9,200.00	9,150.54	9,121.84	9,106.91	33.28	32.62	-103.02	468.22	-1,121.40	1,217.39	1,151.57	65.83	18.494	
9,300.00	9,250.52	9,228.06	9,213.09	33.63	33.00	-103.00	471.07	-1,122.38	1,218.65	1,152.09	66.56	18.308	
9,372.02	9,322.54	9,304.58	9,289.60	33.88	33.28	-92.93	471.97	-1,122.69	1,219.00	1,151.91	67.09	18.169	
9,375.00	9,325.52	9,307.74	9,292.77	33.89	33.29	87.59	471.99	-1,122.69	1,219.01	1,151.90	67.11	18.164	
9,400.00	9,350.50	9,334.29	9,319.31	33.97	33.38	87.64	472.06	-1,122.72	1,218.99	1,151.71	67.28	18.117	
9,425.00	9,375.41	9,357.37	9,342.39	34.04	33.46	87.72	471.65	-1,122.72	1,218.93	1,151.49	67.44	18.075	
9,450.00	9,400.17	9,380.04	9,365.00	34.12	33.53	87.80	470.17	-1,122.70	1,218.86	1,151.28	67.58	18.037	
9,475.00	9,424.72	9,402.77	9,387.60	34.18	33.60	87.89	467.61	-1,122.68	1,218.78	1,151.07	67.71	17.999	
9,500.00	9,448.99	9,425.00	9,409.54	34.25	33.67	87.99	464.07	-1,122.65	1,218.71	1,150.87	67.84	17.964	
9,525.00	9,472.91	9,448.49	9,432.52	34.31	33.73	88.09	459.22	-1,122.60	1,218.64	1,150.67	67.97	17.929	
9,550.00	9,496.42	9,471.48	9,454.75	34.37	33.80	88.19	453.39	-1,122.55	1,218.56	1,150.47	68.09	17.896	
9,575.00	9,519.46	9,494.56	9,476.77	34.42	33.86	88.31	446.47	-1,122.49	1,218.49	1,150.28	68.21	17.864	
9,600.00	9,541.95	9,517.74	9,498.52	34.47	33.92	88.42	438.45	-1,122.41	1,218.42	1,150.10	68.32	17.834	
9,625.00	9,563.85	9,541.03	9,519.95	34.52	33.98	88.54	429.34	-1,122.33	1,218.35	1,149.93	68.42	17.806	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 305H - 305H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWVD+HRGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,650.00	9,585.08	9,564.43	9,541.01	34.56	34.03	88.66	419.15	-1,122.23	1,218.29	1,149.76	68.53	17.779	
9,675.00	9,605.59	9,587.94	9,561.64	34.60	34.09	88.79	407.88	-1,122.13	1,218.23	1,149.61	68.62	17.753	
9,700.00	9,625.33	9,611.57	9,581.80	34.64	34.14	88.92	395.55	-1,122.02	1,218.17	1,149.46	68.71	17.728	
9,725.00	9,644.23	9,635.33	9,601.42	34.67	34.19	89.05	382.15	-1,121.90	1,218.12	1,149.32	68.80	17.705	
9,750.00	9,662.26	9,659.22	9,620.45	34.71	34.24	89.19	367.72	-1,121.76	1,218.08	1,149.19	68.89	17.683	
9,775.00	9,679.35	9,683.25	9,638.84	34.74	34.28	89.33	352.27	-1,121.62	1,218.04	1,149.07	68.97	17.662	
9,800.00	9,695.47	9,707.42	9,656.53	34.76	34.33	89.47	335.80	-1,121.47	1,218.01	1,148.96	69.04	17.641	
9,825.00	9,710.56	9,731.73	9,673.47	34.79	34.37	89.61	318.36	-1,121.31	1,217.98	1,148.87	69.12	17.622	
9,850.00	9,724.59	9,756.20	9,689.59	34.81	34.41	89.76	299.97	-1,121.14	1,217.96	1,148.78	69.19	17.604	
9,875.00	9,737.52	9,780.81	9,704.84	34.84	34.45	89.90	280.64	-1,120.96	1,217.95	1,148.70	69.25	17.587	
9,892.52	9,745.90	9,798.16	9,714.98	34.85	34.48	90.00	266.57	-1,120.83	1,217.95	1,148.65	69.30	17.575	
9,900.00	9,749.31	9,805.59	9,719.16	34.86	34.49	90.05	260.43	-1,120.78	1,217.95	1,148.63	69.32	17.570	
9,925.00	9,759.93	9,830.53	9,732.50	34.88	34.53	90.19	239.36	-1,120.59	1,217.96	1,148.57	69.38	17.554	
9,950.00	9,769.35	9,855.63	9,744.80	34.90	34.57	90.34	217.48	-1,120.38	1,217.97	1,148.53	69.45	17.538	
9,975.00	9,777.55	9,880.91	9,756.00	34.91	34.61	90.49	194.83	-1,120.18	1,218.00	1,148.49	69.51	17.523	
10,000.00	9,784.50	9,906.35	9,766.04	34.93	34.65	90.63	171.46	-1,119.96	1,218.03	1,148.46	69.57	17.509	
10,025.00	9,790.18	9,931.97	9,774.89	34.95	34.69	90.77	147.42	-1,119.74	1,218.06	1,148.44	69.62	17.495	
10,050.00	9,794.58	9,957.76	9,782.48	34.97	34.73	90.92	122.77	-1,119.52	1,218.11	1,148.43	69.68	17.482	
10,075.00	9,797.69	9,983.73	9,788.77	34.98	34.77	91.06	97.58	-1,119.28	1,218.16	1,148.43	69.74	17.468	
10,100.00	9,799.50	10,009.88	9,793.71	35.00	34.81	91.19	71.91	-1,119.05	1,218.22	1,148.43	69.79	17.456	
10,122.02	9,800.00	10,033.05	9,796.90	35.01	34.84	91.31	48.96	-1,118.84	1,218.27	1,148.44	69.84	17.445	
10,200.00	9,800.00	10,114.35	9,800.00	35.08	34.97	91.46	-32.21	-1,118.09	1,218.34	1,148.31	70.03	17.398	
10,300.00	9,800.00	10,214.35	9,800.00	35.22	35.16	91.46	-132.21	-1,117.18	1,218.34	1,147.98	70.37	17.315	
10,400.00	9,800.00	10,314.35	9,800.00	35.42	35.42	91.46	-232.21	-1,116.26	1,218.34	1,147.52	70.82	17.204	
10,500.00	9,800.00	10,414.35	9,800.00	35.67	35.73	91.46	-332.20	-1,115.34	1,218.34	1,146.96	71.38	17.068	
10,600.00	9,800.00	10,514.35	9,800.00	35.99	36.09	91.46	-432.20	-1,114.42	1,218.34	1,146.28	72.06	16.908	
10,700.00	9,800.00	10,614.35	9,800.00	36.35	36.51	91.46	-532.19	-1,113.51	1,218.34	1,145.50	72.84	16.726	
10,800.00	9,800.00	10,714.35	9,800.00	36.77	36.98	91.46	-632.19	-1,112.59	1,218.34	1,144.61	73.73	16.525	
10,900.00	9,800.00	10,814.35	9,800.00	37.25	37.49	91.46	-732.18	-1,111.67	1,218.34	1,143.62	74.71	16.307	
11,000.00	9,800.00	10,914.35	9,800.00	37.77	38.06	91.46	-832.18	-1,110.75	1,218.34	1,142.54	75.80	16.073	
11,100.00	9,800.00	11,014.35	9,800.00	38.33	38.67	91.46	-932.18	-1,109.84	1,218.33	1,141.36	76.97	15.828	
11,200.00	9,800.00	11,114.35	9,800.00	38.94	39.32	91.46	-1,032.17	-1,108.92	1,218.33	1,140.09	78.24	15.572	
11,300.00	9,800.00	11,214.35	9,800.00	39.60	40.02	91.46	-1,132.17	-1,108.00	1,218.33	1,138.74	79.59	15.308	
11,400.00	9,800.00	11,314.35	9,800.00	40.29	40.75	91.46	-1,232.16	-1,107.09	1,218.33	1,137.31	81.02	15.038	
11,500.00	9,800.00	11,414.35	9,800.00	41.03	41.52	91.46	-1,332.16	-1,106.17	1,218.33	1,135.81	82.52	14.764	
11,600.00	9,800.00	11,514.35	9,800.00	41.80	42.33	91.46	-1,432.16	-1,105.25	1,218.33	1,134.23	84.10	14.487	
11,700.00	9,800.00	11,614.35	9,800.00	42.60	43.17	91.46	-1,532.15	-1,104.33	1,218.33	1,132.59	85.74	14.210	
11,800.00	9,800.00	11,714.35	9,800.00	43.44	44.04	91.46	-1,632.15	-1,103.42	1,218.33	1,130.88	87.45	13.932	
11,900.00	9,800.00	11,814.35	9,800.00	44.31	44.94	91.46	-1,732.14	-1,102.50	1,218.33	1,129.11	89.21	13.656	
12,000.00	9,800.00	11,914.35	9,800.00	45.21	45.86	91.46	-1,832.14	-1,101.58	1,218.32	1,127.29	91.04	13.382	
12,100.00	9,800.00	12,014.35	9,800.00	46.13	46.81	91.46	-1,932.13	-1,100.66	1,218.32	1,125.41	92.92	13.112	
12,200.00	9,800.00	12,114.35	9,800.00	47.09	47.79	91.46	-2,032.13	-1,099.75	1,218.32	1,123.48	94.84	12.846	
12,300.00	9,800.00	12,214.35	9,800.00	48.06	48.79	91.46	-2,132.13	-1,098.83	1,218.32	1,121.50	96.82	12.583	
12,400.00	9,800.00	12,314.35	9,800.00	49.06	49.81	91.46	-2,232.12	-1,097.91	1,218.32	1,119.48	98.84	12.326	
12,500.00	9,800.00	12,414.35	9,800.00	50.08	50.85	91.46	-2,332.12	-1,096.99	1,218.32	1,117.42	100.90	12.075	
12,600.00	9,800.00	12,514.35	9,800.00	51.12	51.91	91.46	-2,432.11	-1,096.08	1,218.32	1,115.32	103.00	11.828	
12,700.00	9,800.00	12,614.35	9,800.00	52.18	52.99	91.46	-2,532.11	-1,095.16	1,218.32	1,113.18	105.14	11.588	
12,800.00	9,800.00	12,714.35	9,800.00	53.26	54.09	91.46	-2,632.10	-1,094.24	1,218.32	1,111.01	107.31	11.353	
12,900.00	9,800.00	12,814.35	9,800.00	54.35	55.20	91.46	-2,732.10	-1,093.32	1,218.31	1,108.80	109.51	11.125	
13,000.00	9,800.00	12,914.35	9,800.00	55.46	56.32	91.46	-2,832.10	-1,092.41	1,218.31	1,106.57	111.75	10.902	
13,100.00	9,800.00	13,014.35	9,800.00	56.58	57.46	91.46	-2,932.09	-1,091.49	1,218.31	1,104.30	114.01	10.686	
13,200.00	9,800.00	13,114.35	9,800.00	57.72	58.62	91.46	-3,032.09	-1,090.57	1,218.31	1,102.01	116.30	10.475	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 305H - 305H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,300.00	9,800.00	13,214.35	9,800.00	58.87	59.78	91.46	-3,132.08	-1,089.65	1,218.31	1,099.69	118.62	10.271	
13,400.00	9,800.00	13,314.35	9,800.00	60.04	60.96	91.46	-3,232.08	-1,088.74	1,218.31	1,097.35	120.96	10.072	
13,500.00	9,800.00	13,414.35	9,800.00	61.21	62.15	91.46	-3,332.08	-1,087.82	1,218.31	1,094.98	123.32	9.879	
13,600.00	9,800.00	13,514.35	9,800.00	62.40	63.35	91.46	-3,432.07	-1,086.90	1,218.31	1,092.60	125.71	9.691	
13,700.00	9,800.00	13,614.35	9,800.00	63.60	64.55	91.46	-3,532.07	-1,085.99	1,218.31	1,090.19	128.11	9.510	
13,800.00	9,800.00	13,714.35	9,800.00	64.80	65.77	91.46	-3,632.06	-1,085.07	1,218.31	1,087.77	130.54	9.333	
13,900.00	9,800.00	13,814.35	9,800.00	66.02	67.00	91.46	-3,732.06	-1,084.15	1,218.30	1,085.32	132.98	9.161	
14,000.00	9,800.00	13,914.35	9,800.00	67.25	68.23	91.46	-3,832.05	-1,083.23	1,218.30	1,082.86	135.44	8.995	
14,100.00	9,800.00	14,014.35	9,800.00	68.48	69.48	91.46	-3,932.05	-1,082.32	1,218.30	1,080.39	137.92	8.834	
14,200.00	9,800.00	14,114.35	9,800.00	69.72	70.73	91.46	-4,032.05	-1,081.40	1,218.30	1,077.89	140.41	8.677	
14,300.00	9,800.00	14,214.35	9,800.00	70.97	71.98	91.46	-4,132.04	-1,080.48	1,218.30	1,075.39	142.91	8.525	
14,400.00	9,800.00	14,314.35	9,800.00	72.22	73.25	91.46	-4,232.04	-1,079.56	1,218.30	1,072.87	145.43	8.377	
14,500.00	9,800.00	14,414.35	9,800.00	73.49	74.52	91.46	-4,332.03	-1,078.65	1,218.30	1,070.33	147.97	8.234	
14,600.00	9,800.00	14,514.35	9,800.00	74.76	75.79	91.46	-4,432.03	-1,077.73	1,218.30	1,067.79	150.51	8.094	
14,700.00	9,800.00	14,614.35	9,800.00	76.03	77.08	91.46	-4,532.02	-1,076.81	1,218.30	1,065.23	153.07	7.959	
14,800.00	9,800.00	14,714.35	9,800.00	77.31	78.36	91.46	-4,632.02	-1,075.89	1,218.29	1,062.66	155.64	7.828	
14,900.00	9,800.00	14,814.35	9,800.00	78.60	79.66	91.46	-4,732.02	-1,074.98	1,218.29	1,060.08	158.21	7.700	
15,000.00	9,800.00	14,914.35	9,800.00	79.89	80.96	91.46	-4,832.01	-1,074.06	1,218.29	1,057.49	160.80	7.576	
15,100.00	9,800.00	15,014.35	9,800.00	81.19	82.26	91.46	-4,932.01	-1,073.14	1,218.29	1,054.89	163.40	7.456	
15,200.00	9,800.00	15,114.35	9,800.00	82.49	83.56	91.46	-5,032.00	-1,072.22	1,218.29	1,052.28	166.01	7.339	
15,300.00	9,800.00	15,214.35	9,800.00	83.79	84.88	91.46	-5,132.00	-1,071.31	1,218.29	1,049.66	168.63	7.225	
15,400.00	9,800.00	15,314.35	9,800.00	85.10	86.19	91.46	-5,232.00	-1,070.39	1,218.29	1,047.04	171.25	7.114	
15,500.00	9,800.00	15,414.35	9,800.00	86.42	87.51	91.46	-5,331.99	-1,069.47	1,218.29	1,044.40	173.88	7.006	
15,600.00	9,800.00	15,514.35	9,800.00	87.74	88.83	91.46	-5,431.99	-1,068.56	1,218.29	1,041.76	176.53	6.901	
15,700.00	9,800.00	15,614.35	9,800.00	89.06	90.16	91.46	-5,531.98	-1,067.64	1,218.28	1,039.11	179.17	6.799	
15,800.00	9,800.00	15,714.35	9,800.00	90.38	91.49	91.46	-5,631.98	-1,066.72	1,218.28	1,036.46	181.83	6.700	
15,900.00	9,800.00	15,814.35	9,800.00	91.71	92.82	91.46	-5,731.97	-1,065.80	1,218.28	1,033.79	184.49	6.604	
16,000.00	9,800.00	15,914.35	9,800.00	93.05	94.16	91.46	-5,831.97	-1,064.89	1,218.28	1,031.12	187.16	6.509	
16,100.00	9,800.00	16,014.35	9,800.00	94.38	95.50	91.46	-5,931.97	-1,063.97	1,218.28	1,028.45	189.83	6.418	
16,200.00	9,800.00	16,114.35	9,800.00	95.72	96.84	91.46	-6,031.96	-1,063.05	1,218.28	1,025.77	192.51	6.328	
16,300.00	9,800.00	16,214.35	9,800.00	97.06	98.19	91.46	-6,131.96	-1,062.13	1,218.28	1,023.08	195.20	6.241	
16,400.00	9,800.00	16,314.35	9,800.00	98.40	99.53	91.46	-6,231.95	-1,061.22	1,218.28	1,020.39	197.89	6.156	
16,500.00	9,800.00	16,414.35	9,800.00	99.75	100.88	91.46	-6,331.95	-1,060.30	1,218.28	1,017.69	200.59	6.074	
16,600.00	9,800.00	16,514.35	9,800.00	101.10	102.24	91.46	-6,431.94	-1,059.38	1,218.28	1,014.99	203.29	5.993	
16,700.00	9,800.00	16,614.35	9,800.00	102.45	103.59	91.46	-6,531.94	-1,058.46	1,218.27	1,012.28	205.99	5.914	
16,800.00	9,800.00	16,714.35	9,800.00	103.81	104.95	91.46	-6,631.94	-1,057.55	1,218.27	1,009.57	208.70	5.837	
16,900.00	9,800.00	16,814.35	9,800.00	105.16	106.31	91.46	-6,731.93	-1,056.63	1,218.27	1,006.85	211.42	5.762	
17,000.00	9,800.00	16,914.35	9,800.00	106.52	107.67	91.46	-6,831.93	-1,055.71	1,218.27	1,004.13	214.14	5.689	
17,100.00	9,800.00	17,014.35	9,800.00	107.88	109.03	91.46	-6,931.92	-1,054.79	1,218.27	1,001.41	216.86	5.618	
17,200.00	9,800.00	17,114.35	9,800.00	109.24	110.40	91.46	-7,031.92	-1,053.88	1,218.27	998.68	219.59	5.548	
17,300.00	9,800.00	17,214.35	9,800.00	110.61	111.77	91.46	-7,131.92	-1,052.96	1,218.27	995.95	222.32	5.480	
17,400.00	9,800.00	17,314.35	9,800.00	111.98	113.13	91.46	-7,231.91	-1,052.04	1,218.27	993.21	225.06	5.413	
17,413.25	9,800.00	17,327.60	9,800.00	112.16	113.32	91.46	-7,245.16	-1,051.92	1,218.27	992.85	225.42	5.404 ES, SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 505H - 505H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-80.03	173.46	-986.81	1,002.42				
100.00	100.00	69.00	69.00	0.13	0.09	-80.03	173.46	-986.81	1,001.94	1,001.71	0.23	4,410.301	
200.00	200.00	169.00	169.00	0.49	0.38	-80.03	173.46	-986.81	1,001.94	1,001.06	0.87	1,145.504	
300.00	300.00	269.00	269.00	0.85	0.74	-80.03	173.46	-986.81	1,001.94	1,000.35	1.59	629.512	
400.00	400.00	369.00	369.00	1.21	1.10	-80.03	173.46	-986.81	1,001.94	999.63	2.31	434.011	
500.00	500.00	469.00	469.00	1.57	1.46	-80.03	173.46	-986.81	1,001.94	998.91	3.03	331.165	
600.00	600.00	569.00	569.00	1.93	1.82	-80.03	173.46	-986.81	1,001.94	998.20	3.74	267.723	
700.00	700.00	669.00	669.00	2.29	2.17	-80.03	173.46	-986.81	1,001.94	997.48	4.46	224.681	
800.00	800.00	769.00	769.00	2.64	2.53	-80.03	173.46	-986.81	1,001.94	996.76	5.18	193.562	
900.00	900.00	869.00	869.00	3.00	2.89	-80.03	173.46	-986.81	1,001.94	996.05	5.89	170.014	
1,000.00	1,000.00	969.00	969.00	3.36	3.25	-80.03	173.46	-986.81	1,001.94	995.33	6.61	151.574	
1,100.00	1,100.00	1,069.00	1,069.00	3.72	3.61	-80.03	173.46	-986.81	1,001.94	994.61	7.33	136.743	
1,200.00	1,200.00	1,169.00	1,169.00	4.08	3.97	-80.03	173.46	-986.81	1,001.94	993.90	8.04	124.556	
1,300.00	1,300.00	1,269.00	1,269.00	4.44	4.32	-80.03	173.46	-986.81	1,001.94	993.18	8.76	114.363	
1,400.00	1,400.00	1,369.00	1,369.00	4.79	4.68	-80.03	173.46	-986.81	1,001.94	992.46	9.48	105.712	
1,500.00	1,500.00	1,469.00	1,469.00	5.15	5.04	-80.03	173.46	-986.81	1,001.94	991.74	10.19	98.278	
1,600.00	1,600.00	1,569.00	1,569.00	5.51	5.40	-80.03	173.46	-986.81	1,001.94	991.03	10.91	91.821	
1,700.00	1,700.00	1,669.00	1,669.00	5.87	5.76	-80.03	173.46	-986.81	1,001.94	990.31	11.63	86.160	
1,800.00	1,800.00	1,769.00	1,769.00	6.23	6.12	-80.03	173.46	-986.81	1,001.94	989.59	12.35	81.157	
1,900.00	1,900.00	1,869.00	1,869.00	6.59	6.48	-80.03	173.46	-986.81	1,001.94	988.88	13.06	76.702	
2,000.00	2,000.00	1,969.00	1,969.00	6.95	6.83	-80.03	173.46	-986.81	1,001.94	988.16	13.78	72.712	
2,100.00	2,100.00	2,069.00	2,069.00	7.30	7.19	-80.03	173.46	-986.81	1,001.94	987.44	14.50	69.116	
2,200.00	2,200.00	2,169.00	2,169.00	7.66	7.55	-80.03	173.46	-986.81	1,001.94	986.73	15.21	65.858	
2,300.00	2,300.00	2,269.00	2,269.00	8.02	7.91	-80.03	173.46	-986.81	1,001.94	986.01	15.93	62.895	
2,400.00	2,400.00	2,369.00	2,369.00	8.38	8.27	-80.03	173.46	-986.81	1,001.94	985.29	16.65	60.186	
2,500.00	2,500.00	2,469.00	2,469.00	8.74	8.63	-80.03	173.46	-986.81	1,001.94	984.57	17.36	57.701	
2,600.00	2,600.00	2,569.00	2,569.00	9.10	8.99	-80.03	173.46	-986.81	1,001.94	983.86	18.08	55.413	
2,700.00	2,700.00	2,669.00	2,669.00	9.45	9.34	-80.03	173.46	-986.81	1,001.94	983.14	18.80	53.300	
2,800.00	2,800.00	2,769.00	2,769.00	9.81	9.70	-80.03	173.46	-986.81	1,001.94	982.42	19.52	51.342	
2,900.00	2,900.00	2,869.00	2,869.00	10.17	10.06	-80.03	173.46	-986.81	1,001.94	981.71	20.23	49.522	
3,000.00	3,000.00	2,969.00	2,969.00	10.53	10.42	-80.03	173.46	-986.81	1,001.94	980.99	20.95	47.827	
3,100.00	3,100.00	3,069.00	3,069.00	10.89	10.78	-80.03	173.46	-986.81	1,001.94	980.27	21.67	46.245	
3,200.00	3,200.00	3,169.00	3,169.00	11.25	11.14	-80.03	173.46	-986.81	1,001.94	979.56	22.38	44.763	
3,300.00	3,300.00	3,269.00	3,269.00	11.61	11.49	-80.03	173.46	-986.81	1,001.94	978.84	23.10	43.374	
3,400.00	3,400.00	3,369.00	3,369.00	11.96	11.85	-80.03	173.46	-986.81	1,001.94	978.12	23.82	42.069	
3,500.00	3,500.00	3,469.00	3,469.00	12.32	12.21	-80.03	173.46	-986.81	1,001.94	977.41	24.53	40.839	
3,600.00	3,600.00	3,569.00	3,569.00	12.68	12.57	-80.03	173.46	-986.81	1,001.94	976.69	25.25	39.680	
3,700.00	3,700.00	3,669.00	3,669.00	13.04	12.93	-80.03	173.46	-986.81	1,001.94	975.97	25.97	38.584	
3,800.00	3,800.00	3,769.00	3,769.00	13.40	13.29	-80.03	173.46	-986.81	1,001.94	975.25	26.68	37.547	
3,900.00	3,900.00	3,869.00	3,869.00	13.76	13.65	-80.03	173.46	-986.81	1,001.94	974.54	27.40	36.565	
4,000.00	4,000.00	3,969.00	3,969.00	14.11	14.00	-80.03	173.46	-986.81	1,001.94	973.82	28.12	35.633	
4,100.00	4,100.00	4,069.00	4,069.00	14.47	14.36	-80.03	173.46	-986.81	1,001.94	973.10	28.84	34.747	
4,200.00	4,200.00	4,169.00	4,169.00	14.83	14.72	-80.03	173.46	-986.81	1,001.94	972.39	29.55	33.904	
4,300.00	4,300.00	4,269.00	4,269.00	15.19	15.08	-80.03	173.46	-986.81	1,001.94	971.67	30.27	33.101	
4,400.00	4,400.00	4,369.00	4,369.00	15.55	15.44	-80.03	173.46	-986.81	1,001.94	970.95	30.99	32.335	
4,500.00	4,500.00	4,469.00	4,469.00	15.91	15.80	-80.03	173.46	-986.81	1,001.94	970.24	31.70	31.604	
4,600.00	4,600.00	4,569.00	4,569.00	16.27	16.15	-80.03	173.46	-986.81	1,001.94	969.52	32.42	30.905	
4,700.00	4,700.00	4,669.00	4,669.00	16.62	16.51	-80.03	173.46	-986.81	1,001.94	968.80	33.14	30.236	
4,800.00	4,800.00	4,769.00	4,769.00	16.98	16.87	-80.03	173.46	-986.81	1,001.94	968.09	33.85	29.596	
4,900.00	4,900.00	4,869.00	4,869.00	17.34	17.23	-80.03	173.46	-986.81	1,001.94	967.37	34.57	28.982	
5,000.00	5,000.00	4,969.00	4,969.00	17.70	17.59	-80.03	173.46	-986.81	1,001.94	966.65	35.29	28.393	
5,100.00	5,100.00	5,069.00	5,069.00	18.06	17.95	-80.03	173.46	-986.81	1,001.94	965.93	36.00	27.828	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 505H - 505H - Planning - Plan 0.1													Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,200.00	5,169.00	5,169.00	18.42	18.31	-80.03	173.46	-986.81	1,001.94	965.22	36.72	27.285		
5,300.00	5,300.00	5,269.00	5,269.00	18.77	18.66	-80.03	173.46	-986.81	1,001.94	964.50	37.44	26.762		
5,400.00	5,400.00	5,369.00	5,369.00	19.13	19.02	-80.03	173.46	-986.81	1,001.94	963.78	38.16	26.259		
5,500.00	5,500.00	5,469.00	5,469.00	19.49	19.38	-80.03	173.46	-986.81	1,001.94	963.07	38.87	25.775		
5,600.00	5,600.00	5,569.00	5,569.00	19.85	19.74	-80.03	173.46	-986.81	1,001.94	962.35	39.59	25.308		
5,620.00	5,620.00	5,589.00	5,589.00	19.92	19.81	-80.03	173.46	-986.81	1,001.94	962.21	39.73	25.217 CC		
5,620.04	5,620.04	5,589.04	5,589.04	19.92	19.81	-80.03	173.46	-986.81	1,001.94	962.21	39.73	25.217		
5,700.00	5,700.00	5,664.92	5,664.91	20.21	20.08	-90.10	173.62	-986.87	1,002.04	961.75	40.29	24.870 ES		
5,800.00	5,799.97	5,756.58	5,756.56	20.57	20.41	-90.14	174.98	-987.40	1,002.87	961.89	40.97	24.476		
5,900.00	5,899.89	5,848.23	5,848.17	20.92	20.74	-90.19	177.69	-988.47	1,004.53	962.88	41.65	24.117		
6,000.00	5,999.72	5,939.87	5,939.70	21.28	21.07	-90.25	181.77	-990.06	1,007.03	964.70	42.33	23.791		
6,100.00	6,099.44	6,031.47	6,031.12	21.64	21.39	-90.33	187.21	-992.19	1,010.37	967.37	43.00	23.497		
6,200.00	6,199.01	6,123.05	6,122.40	22.00	21.72	-90.41	194.01	-994.85	1,014.54	970.87	43.67	23.233		
6,300.00	6,298.40	6,216.57	6,215.50	22.35	22.05	-90.51	202.31	-998.10	1,019.53	975.18	44.35	22.990		
6,400.00	6,397.59	6,316.35	6,314.78	22.71	22.41	-90.69	211.58	-1,001.73	1,024.77	979.72	45.06	22.743		
6,500.00	6,496.54	6,416.04	6,413.97	23.06	22.76	-90.96	220.84	-1,005.35	1,030.07	984.30	45.77	22.505		
6,600.00	6,595.23	6,515.60	6,513.04	23.42	23.12	-91.33	230.09	-1,008.97	1,035.44	988.95	46.49	22.274		
6,700.00	6,693.62	6,615.02	6,611.96	23.78	23.48	-91.78	239.32	-1,012.58	1,040.91	993.71	47.20	22.052		
6,800.00	6,791.68	6,714.26	6,710.71	24.14	23.83	-92.32	248.54	-1,016.19	1,046.55	998.62	47.92	21.839		
6,870.43	6,860.52	6,784.03	6,780.12	24.40	24.09	-92.75	255.02	-1,018.73	1,050.63	1,002.20	48.43	21.694		
6,900.00	6,889.40	6,813.30	6,809.25	24.51	24.19	-92.96	257.74	-1,019.79	1,052.38	1,003.73	48.64	21.635		
7,000.00	6,987.02	6,912.28	6,907.74	24.88	24.55	-93.66	266.94	-1,023.39	1,058.38	1,009.01	49.37	21.439		
7,100.00	7,084.65	7,011.27	7,006.23	25.25	24.91	-94.34	276.13	-1,026.99	1,064.54	1,014.45	50.10	21.250		
7,200.00	7,182.28	7,110.25	7,104.72	25.62	25.26	-95.02	285.33	-1,030.58	1,070.86	1,020.03	50.83	21.069		
7,300.00	7,279.91	7,209.24	7,203.21	26.00	25.62	-95.69	294.53	-1,034.18	1,077.32	1,025.76	51.56	20.894		
7,400.00	7,377.54	7,308.22	7,301.70	26.38	25.98	-96.36	303.72	-1,037.78	1,083.94	1,031.64	52.30	20.726		
7,500.00	7,475.16	7,407.21	7,400.19	26.76	26.34	-97.01	312.92	-1,041.38	1,090.70	1,037.66	53.04	20.564		
7,600.00	7,572.79	7,506.19	7,498.68	27.14	26.70	-97.66	322.11	-1,044.98	1,097.60	1,043.82	53.78	20.409		
7,700.00	7,670.42	7,605.17	7,597.18	27.53	27.06	-98.30	331.31	-1,048.58	1,104.64	1,050.12	54.53	20.259		
7,800.00	7,768.05	7,704.16	7,695.67	27.92	27.42	-98.93	340.50	-1,052.17	1,111.82	1,056.55	55.27	20.115		
7,900.00	7,865.68	7,803.14	7,794.16	28.31	27.79	-99.55	349.70	-1,055.77	1,119.13	1,063.11	56.02	19.976		
8,000.00	7,963.30	7,902.13	7,892.65	28.70	28.15	-100.17	358.89	-1,059.37	1,126.58	1,069.80	56.77	19.843		
8,100.00	8,060.93	8,001.11	7,991.14	29.09	28.51	-100.78	368.09	-1,062.97	1,134.15	1,076.63	57.53	19.715		
8,121.60	8,082.02	8,022.49	8,012.41	29.18	28.59	-100.91	370.07	-1,063.74	1,135.81	1,078.12	57.69	19.688		
8,200.00	8,158.67	8,100.16	8,089.70	29.49	28.87	-101.41	377.29	-1,066.57	1,141.75	1,083.47	58.28	19.590		
8,300.00	8,256.76	8,199.42	8,188.45	29.88	29.24	-101.97	386.51	-1,070.18	1,149.11	1,090.07	59.04	19.464		
8,400.00	8,355.17	8,298.85	8,287.39	30.27	29.60	-102.43	395.75	-1,073.79	1,156.17	1,096.38	59.79	19.337		
8,500.00	8,453.88	8,398.43	8,386.47	30.66	29.97	-102.80	405.00	-1,077.41	1,162.91	1,102.37	60.54	19.209		
8,600.00	8,552.85	8,498.12	8,485.67	31.05	30.33	-103.09	414.26	-1,081.03	1,169.28	1,107.99	61.29	19.078		
8,700.00	8,652.06	8,597.90	8,584.95	31.43	30.70	-103.28	423.53	-1,084.66	1,175.27	1,113.24	62.04	18.945		
8,800.00	8,751.47	8,697.74	8,684.29	31.81	31.07	-103.38	432.80	-1,088.29	1,180.87	1,118.09	62.78	18.810		
8,900.00	8,851.05	8,797.60	8,783.65	32.18	31.44	-103.40	442.08	-1,091.92	1,186.06	1,122.54	63.52	18.672		
9,000.00	8,950.78	8,897.46	8,883.01	32.55	31.81	-103.34	451.36	-1,095.55	1,190.85	1,126.60	64.25	18.533		
9,100.00	9,050.62	8,997.28	8,982.34	32.92	32.17	-103.19	460.63	-1,099.18	1,195.25	1,130.26	64.99	18.392		
9,200.00	9,150.54	9,097.03	9,081.59	33.28	32.54	-102.95	469.90	-1,102.81	1,199.27	1,133.56	65.71	18.250		
9,300.00	9,250.52	9,196.69	9,180.76	33.63	32.91	-102.64	479.15	-1,106.43	1,202.94	1,136.50	66.44	18.107		
9,372.02	9,322.54	9,268.39	9,252.10	33.88	33.18	-92.31	485.81	-1,109.03	1,205.37	1,138.42	66.95	18.003		
9,375.00	9,325.52	9,271.35	9,255.04	33.89	33.19	88.22	486.09	-1,109.14	1,205.47	1,138.50	66.97	17.999		
9,400.00	9,350.50	9,296.14	9,279.70	33.97	33.28	88.27	488.39	-1,110.04	1,206.27	1,139.13	67.14	17.966		
9,425.00	9,375.41	9,320.72	9,304.17	34.04	33.37	88.39	490.68	-1,110.94	1,207.04	1,139.73	67.31	17.933		
9,450.00	9,400.17	9,345.04	9,328.37	34.12	33.46	88.56	492.94	-1,111.82	1,207.79	1,140.33	67.47	17.902		
9,475.00	9,424.72	9,369.03	9,352.24	34.18	33.55	88.79	495.16	-1,112.69	1,208.55	1,140.93	67.62	17.872		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 505H - 505H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,500.00	9,448.99	9,394.25	9,377.33	34.25	33.64	89.09	497.47	-1,113.59	1,209.31	1,141.53	67.78	17.841	
9,525.00	9,472.91	9,419.30	9,402.27	34.31	33.73	89.44	499.65	-1,114.45	1,210.08	1,142.14	67.94	17.812	
9,550.00	9,496.42	9,443.89	9,426.76	34.37	33.83	89.83	501.70	-1,115.25	1,210.88	1,142.80	68.09	17.784	
9,575.00	9,519.46	9,467.95	9,450.73	34.42	33.91	90.25	503.61	-1,116.00	1,211.75	1,143.52	68.23	17.759	
9,600.00	9,541.95	9,491.43	9,474.13	34.47	34.00	90.69	505.39	-1,116.69	1,212.70	1,144.33	68.37	17.738	
9,625.00	9,563.85	9,514.27	9,496.91	34.52	34.08	91.15	507.02	-1,117.33	1,213.78	1,145.28	68.50	17.719	
9,650.00	9,585.08	9,536.42	9,519.00	34.56	34.17	91.61	508.53	-1,117.92	1,215.01	1,146.39	68.63	17.705	
9,675.00	9,605.59	9,557.82	9,540.35	34.60	34.24	92.07	509.92	-1,118.46	1,216.44	1,147.70	68.75	17.694	
9,700.00	9,625.33	9,578.43	9,560.91	34.64	34.32	92.51	511.18	-1,118.96	1,218.10	1,149.24	68.86	17.689	
9,725.00	9,644.23	9,598.18	9,580.62	34.67	34.39	92.93	512.32	-1,119.41	1,220.02	1,151.05	68.97	17.690	
9,750.00	9,662.26	9,617.02	9,599.43	34.71	34.46	93.31	513.35	-1,119.81	1,222.24	1,153.17	69.07	17.696	
9,775.00	9,679.35	9,634.90	9,617.29	34.74	34.52	93.64	514.28	-1,120.17	1,224.79	1,155.63	69.16	17.709	
9,800.00	9,695.47	9,651.78	9,634.14	34.76	34.59	93.92	515.10	-1,120.50	1,227.70	1,158.45	69.25	17.728	
9,825.00	9,710.56	9,667.59	9,649.93	34.79	34.64	94.13	515.84	-1,120.78	1,231.01	1,161.68	69.33	17.755	
9,850.00	9,724.59	9,682.29	9,664.62	34.81	34.70	94.26	516.48	-1,121.03	1,234.75	1,165.34	69.41	17.790	
9,875.00	9,737.52	9,695.83	9,678.15	34.84	34.75	94.31	517.04	-1,121.25	1,238.92	1,169.45	69.48	17.832	
9,900.00	9,749.31	9,708.17	9,690.47	34.86	34.79	94.26	517.53	-1,121.44	1,243.57	1,174.03	69.54	17.883	
9,925.00	9,759.93	9,719.25	9,701.55	34.88	34.83	94.11	517.95	-1,121.61	1,248.69	1,179.10	69.59	17.943	
9,950.00	9,769.35	9,729.04	9,711.33	34.90	34.87	93.85	518.30	-1,121.74	1,254.30	1,184.66	69.64	18.011	
9,975.00	9,777.55	9,737.50	9,719.78	34.91	34.90	93.48	518.59	-1,121.86	1,260.42	1,190.74	69.68	18.088	
10,000.00	9,784.50	9,744.57	9,726.85	34.93	34.92	92.98	518.82	-1,121.95	1,267.03	1,197.31	69.72	18.174	
10,025.00	9,790.18	9,750.23	9,732.50	34.95	34.94	92.35	519.00	-1,122.02	1,274.13	1,204.39	69.75	18.268	
10,050.00	9,794.58	9,754.45	9,736.72	34.97	34.96	91.59	519.14	-1,122.07	1,281.72	1,211.96	69.77	18.372	
10,075.00	9,797.69	9,757.18	9,739.45	34.98	34.97	90.70	519.22	-1,122.11	1,289.78	1,219.99	69.78	18.483	
10,100.00	9,799.50	9,758.40	9,740.67	35.00	34.97	89.67	519.26	-1,122.12	1,298.27	1,228.48	69.79	18.603	
10,122.02	9,800.00	9,758.21	9,740.48	35.01	34.97	88.66	519.25	-1,122.12	1,306.10	1,236.31	69.79	18.715	
10,200.00	9,800.00	9,755.37	9,737.64	35.08	34.96	88.52	519.16	-1,122.08	1,336.34	1,266.55	69.80	19.146	
10,300.00	9,800.00	9,751.59	9,733.86	35.22	34.95	88.35	519.05	-1,122.04	1,380.61	1,310.77	69.83	19.770	
10,400.00	9,800.00	11,026.15	10,500.00	35.42	37.91	120.97	-232.19	-1,116.31	1,420.52	1,354.37	66.15	21.475	
10,500.00	9,800.00	11,126.15	10,500.00	35.67	38.21	120.97	-332.19	-1,115.40	1,420.52	1,353.85	66.67	21.306	
10,600.00	9,800.00	11,226.15	10,500.00	35.99	38.56	120.97	-432.18	-1,114.48	1,420.52	1,353.23	67.29	21.110	
10,700.00	9,800.00	11,326.15	10,500.00	36.35	38.96	120.97	-532.18	-1,113.56	1,420.52	1,352.51	68.01	20.888	
10,800.00	9,800.00	11,426.15	10,500.00	36.77	39.41	120.97	-632.18	-1,112.65	1,420.52	1,351.71	68.81	20.644	
10,900.00	9,800.00	11,526.15	10,500.00	37.25	39.91	120.97	-732.17	-1,111.73	1,420.52	1,350.82	69.70	20.379	
11,000.00	9,800.00	11,626.15	10,500.00	37.77	40.45	120.97	-832.17	-1,110.82	1,420.52	1,349.84	70.68	20.098	
11,100.00	9,800.00	11,726.15	10,500.00	38.33	41.03	120.97	-932.16	-1,109.90	1,420.52	1,348.78	71.74	19.801	
11,200.00	9,800.00	11,826.15	10,500.00	38.94	41.66	120.97	-1,032.16	-1,108.98	1,420.52	1,347.65	72.87	19.493	
11,300.00	9,800.00	11,926.15	10,500.00	39.60	42.32	120.97	-1,132.15	-1,108.07	1,420.52	1,346.44	74.08	19.175	
11,400.00	9,800.00	12,026.15	10,500.00	40.29	43.02	120.97	-1,232.15	-1,107.15	1,420.52	1,345.16	75.36	18.849	
11,500.00	9,800.00	12,126.15	10,500.00	41.03	43.76	120.97	-1,332.15	-1,106.23	1,420.52	1,343.81	76.71	18.518	
11,600.00	9,800.00	12,226.15	10,500.00	41.80	44.53	120.97	-1,432.14	-1,105.32	1,420.52	1,342.40	78.12	18.184	
11,700.00	9,800.00	12,326.15	10,500.00	42.60	45.34	120.97	-1,532.14	-1,104.40	1,420.52	1,340.93	79.59	17.849	
11,800.00	9,800.00	12,426.15	10,500.00	43.44	46.18	120.97	-1,632.13	-1,103.49	1,420.52	1,339.41	81.11	17.513	
11,900.00	9,800.00	12,526.15	10,500.00	44.31	47.04	120.97	-1,732.13	-1,102.57	1,420.52	1,337.83	82.69	17.178	
12,000.00	9,800.00	12,626.15	10,500.00	45.21	47.93	120.97	-1,832.13	-1,101.65	1,420.52	1,336.20	84.32	16.846	
12,100.00	9,800.00	12,726.15	10,500.00	46.13	48.85	120.97	-1,932.12	-1,100.74	1,420.52	1,334.52	86.00	16.518	
12,200.00	9,800.00	12,826.15	10,500.00	47.09	49.80	120.97	-2,032.12	-1,099.82	1,420.52	1,332.80	87.72	16.193	
12,300.00	9,800.00	12,926.15	10,500.00	48.06	50.76	120.97	-2,132.11	-1,098.90	1,420.52	1,331.03	89.49	15.874	
12,400.00	9,800.00	13,026.15	10,500.00	49.06	51.75	120.97	-2,232.11	-1,097.99	1,420.52	1,329.23	91.29	15.560	
12,500.00	9,800.00	13,126.15	10,500.00	50.08	52.76	120.97	-2,332.10	-1,097.07	1,420.52	1,327.39	93.13	15.253	
12,600.00	9,800.00	13,226.15	10,500.00	51.12	53.79	120.97	-2,432.10	-1,096.15	1,420.52	1,325.51	95.01	14.951	
12,700.00	9,800.00	13,326.15	10,500.00	52.18	54.84	120.97	-2,532.10	-1,095.24	1,420.52	1,323.60	96.92	14.656	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 505H - 505H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,800.00	9,800.00	13,426.15	10,500.00	53.26	55.90	120.97	-2,632.09	-1,094.32	1,420.52	1,321.66	98.86	14.369	
12,900.00	9,800.00	13,526.15	10,500.00	54.35	56.98	120.97	-2,732.09	-1,093.41	1,420.52	1,319.69	100.83	14.088	
13,000.00	9,800.00	13,626.15	10,500.00	55.46	58.08	120.97	-2,832.08	-1,092.49	1,420.52	1,317.69	102.83	13.814	
13,100.00	9,800.00	13,726.15	10,500.00	56.58	59.19	120.97	-2,932.08	-1,091.57	1,420.52	1,315.66	104.86	13.547	
13,200.00	9,800.00	13,826.15	10,500.00	57.72	60.32	120.97	-3,032.08	-1,090.66	1,420.52	1,313.61	106.91	13.287	
13,300.00	9,800.00	13,926.15	10,500.00	58.87	61.46	120.97	-3,132.07	-1,089.74	1,420.52	1,311.54	108.98	13.034	
13,400.00	9,800.00	14,026.15	10,500.00	60.04	62.61	120.97	-3,232.07	-1,088.82	1,420.52	1,309.44	111.08	12.788	
13,500.00	9,800.00	14,126.15	10,500.00	61.21	63.77	120.97	-3,332.06	-1,087.91	1,420.52	1,307.33	113.20	12.549	
13,600.00	9,800.00	14,226.15	10,500.00	62.40	64.95	120.97	-3,432.06	-1,086.99	1,420.52	1,305.19	115.33	12.317	
13,700.00	9,800.00	14,326.15	10,500.00	63.60	66.13	120.97	-3,532.05	-1,086.08	1,420.52	1,303.03	117.49	12.091	
13,800.00	9,800.00	14,426.15	10,500.00	64.80	67.32	120.97	-3,632.05	-1,085.16	1,420.52	1,300.86	119.66	11.871	
13,900.00	9,800.00	14,526.15	10,500.00	66.02	68.53	120.97	-3,732.05	-1,084.24	1,420.52	1,298.67	121.85	11.658	
14,000.00	9,800.00	14,626.15	10,500.00	67.25	69.74	120.97	-3,832.04	-1,083.33	1,420.52	1,296.47	124.05	11.451	
14,100.00	9,800.00	14,726.15	10,500.00	68.48	70.96	120.97	-3,932.04	-1,082.41	1,420.52	1,294.25	126.27	11.249	
14,200.00	9,800.00	14,826.15	10,500.00	69.72	72.19	120.97	-4,032.03	-1,081.49	1,420.52	1,292.01	128.51	11.054	
14,300.00	9,800.00	14,926.15	10,500.00	70.97	73.43	120.97	-4,132.03	-1,080.58	1,420.52	1,289.77	130.76	10.864	
14,400.00	9,800.00	15,026.15	10,500.00	72.22	74.67	120.97	-4,232.02	-1,079.66	1,420.52	1,287.51	133.02	10.679	
14,500.00	9,800.00	15,126.15	10,500.00	73.49	75.92	120.97	-4,332.02	-1,078.74	1,420.52	1,285.23	135.29	10.500	
14,600.00	9,800.00	15,226.15	10,500.00	74.76	77.18	120.97	-4,432.02	-1,077.83	1,420.52	1,282.95	137.57	10.326	
14,700.00	9,800.00	15,326.15	10,500.00	76.03	78.44	120.97	-4,532.01	-1,076.91	1,420.52	1,280.66	139.87	10.156	
14,800.00	9,800.00	15,426.15	10,500.00	77.31	79.71	120.97	-4,632.01	-1,076.00	1,420.52	1,278.35	142.17	9.992	
14,900.00	9,800.00	15,526.15	10,500.00	78.60	80.99	120.97	-4,732.00	-1,075.08	1,420.52	1,276.03	144.49	9.831	
15,000.00	9,800.00	15,626.15	10,500.00	79.89	82.27	120.97	-4,832.00	-1,074.16	1,420.52	1,273.71	146.81	9.676	
15,100.00	9,800.00	15,726.15	10,500.00	81.19	83.56	120.97	-4,932.00	-1,073.25	1,420.52	1,271.38	149.15	9.524	
15,200.00	9,800.00	15,826.15	10,500.00	82.49	84.85	120.97	-5,031.99	-1,072.33	1,420.52	1,269.03	151.49	9.377	
15,300.00	9,800.00	15,926.15	10,500.00	83.79	86.14	120.97	-5,131.99	-1,071.41	1,420.52	1,266.68	153.84	9.234	
15,400.00	9,800.00	16,026.15	10,500.00	85.10	87.44	120.97	-5,231.98	-1,070.50	1,420.52	1,264.33	156.20	9.094	
15,500.00	9,800.00	16,126.15	10,500.00	86.42	88.75	120.97	-5,331.98	-1,069.58	1,420.52	1,261.96	158.56	8.959	
15,600.00	9,800.00	16,226.15	10,500.00	87.74	90.06	120.97	-5,431.97	-1,068.67	1,420.52	1,259.59	160.94	8.827	
15,700.00	9,800.00	16,326.15	10,500.00	89.06	91.37	120.97	-5,531.97	-1,067.75	1,420.52	1,257.21	163.32	8.698	
15,800.00	9,800.00	16,426.15	10,500.00	90.38	92.68	120.97	-5,631.97	-1,066.83	1,420.52	1,254.82	165.70	8.573	
15,900.00	9,800.00	16,526.15	10,500.00	91.71	94.00	120.97	-5,731.96	-1,065.92	1,420.52	1,252.43	168.10	8.451	
16,000.00	9,800.00	16,626.15	10,500.00	93.05	95.33	120.97	-5,831.96	-1,065.00	1,420.52	1,250.03	170.49	8.332	
16,100.00	9,800.00	16,726.15	10,500.00	94.38	96.65	120.97	-5,931.95	-1,064.08	1,420.52	1,247.62	172.90	8.216	
16,200.00	9,800.00	16,826.15	10,500.00	95.72	97.98	120.97	-6,031.95	-1,063.17	1,420.52	1,245.21	175.31	8.103	
16,300.00	9,800.00	16,926.15	10,500.00	97.06	99.32	120.97	-6,131.94	-1,062.25	1,420.52	1,242.80	177.72	7.993	
16,400.00	9,800.00	17,026.15	10,500.00	98.40	100.65	120.97	-6,231.94	-1,061.34	1,420.52	1,240.38	180.15	7.885	
16,500.00	9,800.00	17,126.15	10,500.00	99.75	101.99	120.97	-6,331.94	-1,060.42	1,420.52	1,237.95	182.57	7.781	
16,600.00	9,800.00	17,226.15	10,500.00	101.10	103.33	120.97	-6,431.93	-1,059.50	1,420.52	1,235.52	185.00	7.678	
16,700.00	9,800.00	17,326.15	10,500.00	102.45	104.68	120.97	-6,531.93	-1,058.59	1,420.52	1,233.09	187.44	7.579	
16,800.00	9,800.00	17,426.15	10,500.00	103.81	106.02	120.97	-6,631.92	-1,057.67	1,420.52	1,230.65	189.87	7.481	
16,900.00	9,800.00	17,526.15	10,500.00	105.16	107.37	120.97	-6,731.92	-1,056.75	1,420.52	1,228.21	192.32	7.386	
17,000.00	9,800.00	17,626.15	10,500.00	106.52	108.72	120.97	-6,831.92	-1,055.84	1,420.52	1,225.76	194.76	7.294	
17,100.00	9,800.00	17,726.15	10,500.00	107.88	110.08	120.97	-6,931.91	-1,054.92	1,420.52	1,223.31	197.21	7.203	
17,200.00	9,800.00	17,826.15	10,500.00	109.24	111.43	120.97	-7,031.91	-1,054.00	1,420.52	1,220.85	199.67	7.114	
17,300.00	9,800.00	17,926.15	10,500.00	110.61	112.79	120.97	-7,131.90	-1,053.09	1,420.52	1,218.40	202.13	7.028	
17,400.00	9,800.00	18,026.15	10,500.00	111.98	114.15	120.97	-7,231.90	-1,052.17	1,420.52	1,215.94	204.59	6.943	
17,413.25	9,800.00	18,039.40	10,500.00	112.16	114.33	120.97	-7,245.15	-1,052.05	1,420.52	1,215.61	204.92	6.932 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 506H - 506H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-0.55	33.04	-0.32	33.04				
100.00	100.00	100.00	100.00	0.13	0.13	-0.55	33.04	-0.32	33.04	32.77	0.27	122.898	
200.00	200.00	200.00	200.00	0.49	0.49	-0.55	33.04	-0.32	33.04	32.06	0.99	33.518	
300.00	300.00	300.00	300.00	0.85	0.85	-0.55	33.04	-0.32	33.04	31.34	1.70	19.405	
400.00	400.00	400.00	400.00	1.21	1.21	-0.55	33.04	-0.32	33.04	30.62	2.42	13.655	
500.00	500.00	500.00	500.00	1.57	1.57	-0.55	33.04	-0.32	33.04	29.90	3.14	10.534	
600.00	600.00	600.00	600.00	1.93	1.93	-0.55	33.04	-0.32	33.04	29.19	3.85	8.574	
700.00	700.00	700.00	700.00	2.29	2.29	-0.55	33.04	-0.32	33.04	28.47	4.57	7.229	
800.00	800.00	800.00	800.00	2.64	2.64	-0.55	33.04	-0.32	33.04	27.75	5.29	6.249	
900.00	900.00	900.00	900.00	3.00	3.00	-0.55	33.04	-0.32	33.04	27.04	6.00	5.503	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-0.55	33.04	-0.32	33.04	26.32	6.72	4.916	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-0.55	33.04	-0.32	33.04	25.60	7.44	4.442	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-0.55	33.04	-0.32	33.04	24.89	8.16	4.052	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-0.55	33.04	-0.32	33.04	24.17	8.87	3.724	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-0.55	33.04	-0.32	33.04	23.45	9.59	3.446	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-0.55	33.04	-0.32	33.04	22.74	10.31	3.206	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-0.55	33.04	-0.32	33.04	22.02	11.02	2.998	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-0.55	33.04	-0.32	33.04	21.30	11.74	2.814	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-0.55	33.04	-0.32	33.04	20.58	12.46	2.652	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-0.55	33.04	-0.32	33.04	19.87	13.17	2.508	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-0.55	33.04	-0.32	33.04	19.15	13.89	2.379	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	-0.55	33.04	-0.32	33.04	18.43	14.61	2.262	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	-0.55	33.04	-0.32	33.04	17.72	15.32	2.156	
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	-0.55	33.04	-0.32	33.04	17.00	16.04	2.060	
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	-0.55	33.04	-0.32	33.04	16.28	16.76	1.972	
2,500.00	2,500.00	2,500.00	2,500.00	8.74	8.74	-0.55	33.04	-0.32	33.04	15.57	17.48	1.891	
2,600.00	2,600.00	2,600.00	2,600.00	9.10	9.10	-0.55	33.04	-0.32	33.04	14.85	18.19	1.816	
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	-0.55	33.04	-0.32	33.04	14.13	18.91	1.747	
2,800.00	2,800.00	2,800.00	2,800.00	9.81	9.81	-0.55	33.04	-0.32	33.04	13.42	19.63	1.684	
2,900.00	2,900.00	2,900.00	2,900.00	10.17	10.17	-0.55	33.04	-0.32	33.04	12.70	20.34	1.624	
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	-0.55	33.04	-0.32	33.04	11.98	21.06	1.569	
3,100.00	3,100.00	3,100.00	3,100.00	10.89	10.89	-0.55	33.04	-0.32	33.04	11.26	21.78	1.517	
3,200.00	3,200.00	3,200.00	3,200.00	11.25	11.25	-0.55	33.04	-0.32	33.04	10.55	22.49	1.469 Level 3	
3,300.00	3,300.00	3,300.00	3,300.00	11.61	11.61	-0.55	33.04	-0.32	33.04	9.83	23.21	1.424 Level 3	
3,400.00	3,400.00	3,400.00	3,400.00	11.96	11.96	-0.55	33.04	-0.32	33.04	9.11	23.93	1.381 Level 3	
3,500.00	3,500.00	3,500.00	3,500.00	12.32	12.32	-0.55	33.04	-0.32	33.04	8.40	24.64	1.341 Level 3	
3,600.00	3,600.00	3,600.00	3,600.00	12.68	12.68	-0.55	33.04	-0.32	33.04	7.68	25.36	1.303 Level 3	
3,700.00	3,700.00	3,700.00	3,700.00	13.04	13.04	-0.55	33.04	-0.32	33.04	6.96	26.08	1.267 Level 3	
3,800.00	3,800.00	3,800.00	3,800.00	13.40	13.40	-0.55	33.04	-0.32	33.04	6.25	26.80	1.233 Level 2	
3,900.00	3,900.00	3,900.00	3,900.00	13.76	13.76	-0.55	33.04	-0.32	33.04	5.53	27.51	1.201 Level 2	
4,000.00	4,000.00	4,000.00	4,000.00	14.11	14.11	-0.55	33.04	-0.32	33.04	4.81	28.23	1.170 Level 2	
4,100.00	4,100.00	4,100.00	4,100.00	14.47	14.47	-0.55	33.04	-0.32	33.04	4.09	28.95	1.141 Level 2	
4,200.00	4,200.00	4,200.00	4,200.00	14.83	14.83	-0.55	33.04	-0.32	33.04	3.38	29.66	1.114 Level 2	
4,300.00	4,300.00	4,300.00	4,300.00	15.19	15.19	-0.55	33.04	-0.32	33.04	2.66	30.38	1.088 Level 2	
4,400.00	4,400.00	4,400.00	4,400.00	15.55	15.55	-0.55	33.04	-0.32	33.04	1.94	31.10	1.063 Level 2	
4,500.00	4,500.00	4,500.00	4,500.00	15.91	15.91	-0.55	33.04	-0.32	33.04	1.23	31.81	1.039 Level 2	
4,600.00	4,600.00	4,600.00	4,600.00	16.27	16.27	-0.55	33.04	-0.32	33.04	0.51	32.53	1.016 Level 2	
4,700.00	4,700.00	4,700.00	4,700.00	16.62	16.62	-0.55	33.04	-0.32	33.04	-0.21	33.25	0.994 Level 1	
4,800.00	4,800.00	4,800.00	4,800.00	16.98	16.98	-0.55	33.04	-0.32	33.04	-0.92	33.97	0.973 Level 1	
4,900.00	4,900.00	4,900.00	4,900.00	17.34	17.34	-0.55	33.04	-0.32	33.04	-1.64	34.68	0.953 Level 1	
5,000.00	5,000.00	5,000.00	5,000.00	17.70	17.70	-0.55	33.04	-0.32	33.04	-2.36	35.40	0.933 Level 1	
5,100.00	5,100.00	5,100.00	5,100.00	18.06	18.06	-0.55	33.04	-0.32	33.04	-3.07	36.12	0.915 Level 1	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 506H - 506H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,200.00	5,200.00	5,200.00	18.42	18.42	-0.55	33.04	-0.32	33.04	-3.79	36.83	0.897	Level 1
5,300.00	5,300.00	5,300.00	5,300.00	18.77	18.77	-0.55	33.04	-0.32	33.04	-4.51	37.55	0.880	Level 1
5,400.00	5,400.00	5,400.00	5,400.00	19.13	19.13	-0.55	33.04	-0.32	33.04	-5.23	38.27	0.863	Level 1
5,500.00	5,500.00	5,500.00	5,500.00	19.49	19.49	-0.55	33.04	-0.32	33.04	-5.94	38.98	0.848	Level 1
5,600.00	5,600.00	5,600.00	5,600.00	19.85	19.85	-0.55	33.04	-0.32	33.04	-6.66	39.70	0.832	Level 1
5,620.00	5,620.00	5,620.00	5,620.00	19.92	19.92	-0.55	33.04	-0.32	33.04	-6.80	39.84	0.829	Level 1, CC
5,700.00	5,700.00	5,699.54	5,699.54	20.21	20.21	-10.83	33.59	-0.35	33.05	-7.37	40.41	0.818	Level 1
5,800.00	5,799.97	5,798.97	5,798.94	20.57	20.56	-11.74	35.83	-0.49	33.08	-8.04	41.11	0.805	Level 1
5,900.00	5,899.89	5,898.39	5,898.28	20.92	20.92	-13.36	39.79	-0.72	33.15	-8.66	41.80	0.793	Level 1
6,000.00	5,999.72	5,997.80	5,997.53	21.28	21.28	-15.65	45.47	-1.06	33.30	-9.19	42.48	0.784	Level 1
6,100.00	6,099.44	6,097.21	6,096.66	21.64	21.63	-18.60	52.87	-1.51	33.57	-9.58	43.15	0.778	Level 1
6,200.00	6,199.01	6,196.60	6,195.63	22.00	21.98	-22.16	61.98	-2.05	34.03	-9.78	43.81	0.777	Level 1
6,300.00	6,298.40	6,295.99	6,294.42	22.35	22.34	-26.25	72.80	-2.70	34.74	-9.72	44.46	0.781	Level 1
6,400.00	6,397.59	6,395.35	6,392.99	22.71	22.69	-30.75	85.33	-3.45	35.78	-9.33	45.11	0.793	Level 1
6,500.00	6,496.54	6,495.12	6,491.78	23.06	23.05	-35.79	99.20	-4.28	36.82	-9.00	45.82	0.804	Level 1
6,600.00	6,595.23	6,595.03	6,590.71	23.42	23.40	-42.23	113.17	-5.12	36.89	-9.68	46.57	0.792	Level 1
6,700.00	6,693.62	6,694.88	6,689.57	23.78	23.76	-50.64	127.13	-5.96	36.28	-11.04	47.33	0.767	Level 1
6,800.00	6,791.68	6,794.64	6,788.35	24.14	24.13	-61.53	141.08	-6.79	35.62	-12.49	48.11	0.740	Level 1
6,841.53	6,832.29	6,836.04	6,829.34	24.29	24.28	-66.85	146.87	-7.14	35.52	-12.92	48.44	0.733	Level 1
6,870.43	6,860.52	6,864.83	6,857.85	24.40	24.38	-70.81	150.90	-7.38	35.58	-13.10	48.67	0.731	Level 1, SF
6,900.00	6,889.40	6,894.29	6,887.02	24.51	24.49	-74.95	155.01	-7.63	35.79	-13.12	48.91	0.732	Level 1, ES
7,000.00	6,987.02	6,993.91	6,985.65	24.88	24.85	-88.20	168.94	-8.46	37.85	-11.85	49.70	0.762	Level 1
7,100.00	7,084.65	7,093.52	7,084.28	25.25	25.21	-99.56	182.87	-9.30	41.69	-8.76	50.45	0.826	Level 1
7,200.00	7,182.28	7,193.14	7,182.92	25.62	25.58	-108.73	196.80	-10.13	46.88	-4.31	51.18	0.916	Level 1
7,300.00	7,279.91	7,292.75	7,281.55	26.00	25.94	-115.93	210.73	-10.97	53.01	1.11	51.90	1.021	Level 2
7,400.00	7,377.54	7,392.37	7,380.18	26.38	26.31	-121.58	224.66	-11.80	59.81	7.20	52.61	1.137	Level 2
7,500.00	7,475.16	7,491.98	7,478.81	26.76	26.68	-126.04	238.58	-12.63	67.07	13.74	53.33	1.258	Level 3
7,600.00	7,572.79	7,591.59	7,577.45	27.14	27.05	-129.62	252.51	-13.47	74.65	20.61	54.04	1.381	Level 3
7,700.00	7,670.42	7,691.21	7,676.08	27.53	27.42	-132.53	266.44	-14.30	82.47	27.71	54.76	1.506	
7,800.00	7,768.05	7,790.82	7,774.71	27.92	27.79	-134.93	280.37	-15.14	90.46	34.98	55.48	1.630	
7,900.00	7,865.68	7,890.44	7,873.35	28.31	28.16	-136.94	294.30	-15.97	98.58	42.38	56.20	1.754	
8,000.00	7,963.30	7,990.05	7,971.98	28.70	28.53	-138.64	308.23	-16.81	106.81	49.88	56.93	1.876	
8,100.00	8,060.93	8,089.67	8,070.61	29.09	28.90	-140.09	322.16	-17.64	115.12	57.46	57.66	1.997	
8,121.60	8,082.02	8,111.18	8,091.91	29.18	28.98	-140.38	325.16	-17.82	116.92	59.11	57.82	2.022	
8,200.00	8,158.67	8,189.32	8,169.28	29.49	29.28	-141.24	336.09	-18.48	123.07	64.68	58.39	2.108	
8,300.00	8,256.76	8,289.09	8,268.07	29.88	29.65	-141.79	350.04	-19.31	129.73	70.60	59.13	2.194	
8,400.00	8,355.17	8,388.95	8,366.95	30.27	30.03	-141.82	364.00	-20.15	135.02	75.14	59.88	2.255	
8,500.00	8,453.88	8,488.87	8,465.88	30.66	30.40	-141.41	377.97	-20.98	138.94	78.31	60.63	2.292	
8,600.00	8,552.85	8,588.81	8,564.83	31.05	30.78	-140.56	391.95	-21.82	141.52	80.13	61.39	2.305	
8,700.00	8,652.06	8,688.75	8,663.79	31.43	31.16	-139.28	405.92	-22.66	142.81	80.65	62.15	2.298	
8,800.00	8,751.47	8,788.66	8,762.71	31.81	31.54	-137.56	419.89	-23.50	142.87	79.95	62.93	2.270	
8,900.00	8,851.05	8,888.50	8,861.57	32.18	31.92	-135.34	433.85	-24.33	141.82	78.11	63.70	2.226	
9,000.00	8,950.78	8,988.25	8,960.33	32.55	32.30	-132.56	447.80	-25.17	139.79	75.30	64.49	2.168	
9,100.00	9,050.62	9,087.87	9,058.97	32.92	32.68	-129.15	461.73	-26.00	136.99	71.71	65.28	2.098	
9,200.00	9,150.54	9,187.33	9,157.46	33.28	33.05	-125.01	475.63	-26.84	133.68	67.60	66.08	2.023	
9,300.00	9,250.52	9,286.01	9,255.26	33.63	33.43	-120.37	489.52	-27.62	130.43	63.55	66.88	1.950	
9,372.02	9,322.54	9,357.16	9,325.91	33.88	33.70	-106.88	497.11	-28.12	128.41	60.97	67.44	1.904	
9,375.00	9,325.52	9,360.10	9,328.83	33.89	33.71	73.80	497.44	-28.14	128.33	60.86	67.47	1.902	
9,400.00	9,350.50	9,384.73	9,353.31	33.97	33.80	75.42	500.13	-28.30	127.52	59.86	67.65	1.885	
9,425.00	9,375.41	9,409.17	9,377.62	34.04	33.89	77.57	502.70	-28.46	126.53	58.69	67.84	1.865	
9,450.00	9,400.17	9,433.39	9,401.71	34.12	33.98	80.26	505.13	-28.60	125.49	57.47	68.02	1.845	
9,475.00	9,424.72	9,457.32	9,425.52	34.18	34.07	83.44	507.44	-28.74	124.58	56.38	68.20	1.827	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 506H - 506H - Planning - Plan 0.1													Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWVD+HRGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,500.00	9,448.99	9,480.91	9,449.02	34.25	34.16	87.07	509.63	-28.87	123.98	55.61	68.37	1.813		
9,514.25	9,462.68	9,494.19	9,462.24	34.28	34.21	89.32	510.81	-28.94	123.88	55.41	68.46	1.809		
9,525.00	9,472.91	9,504.12	9,472.13	34.31	34.25	91.08	511.68	-28.99	123.94	55.42	68.53	1.809		
9,550.00	9,496.42	9,526.88	9,494.82	34.37	34.33	95.37	513.60	-29.11	124.71	56.04	68.67	1.816		
9,575.00	9,519.46	9,549.16	9,517.02	34.42	34.41	99.80	515.39	-29.22	126.55	57.75	68.80	1.839		
9,600.00	9,541.95	9,570.89	9,538.69	34.47	34.49	104.26	517.05	-29.32	129.68	60.78	68.90	1.882		
9,625.00	9,563.85	9,592.03	9,559.77	34.52	34.57	108.59	518.60	-29.41	134.32	65.33	68.99	1.947		
9,650.00	9,585.08	9,612.53	9,580.22	34.56	34.65	112.69	520.02	-29.49	140.59	71.53	69.06	2.036		
9,675.00	9,605.59	9,632.33	9,599.98	34.60	34.72	116.46	521.32	-29.57	148.57	79.46	69.11	2.150		
9,700.00	9,625.33	9,651.39	9,619.00	34.64	34.79	119.85	522.51	-29.64	158.27	89.11	69.16	2.288		
9,725.00	9,644.23	9,669.65	9,637.23	34.67	34.86	122.80	523.59	-29.71	169.64	100.44	69.20	2.451		
9,750.00	9,662.26	9,687.07	9,654.63	34.71	34.92	125.31	524.57	-29.77	182.59	113.36	69.24	2.637		
9,775.00	9,679.35	9,703.60	9,671.13	34.74	34.98	127.36	525.45	-29.82	197.04	127.76	69.27	2.844		
9,800.00	9,695.47	9,719.20	9,686.70	34.76	35.04	128.95	526.23	-29.87	212.84	143.53	69.31	3.071		
9,825.00	9,710.56	9,733.80	9,701.29	34.79	35.09	130.07	526.93	-29.91	229.89	160.55	69.34	3.315		
9,850.00	9,724.59	9,747.38	9,714.86	34.81	35.14	130.72	527.54	-29.94	248.08	178.70	69.38	3.576		
9,875.00	9,737.52	9,759.88	9,727.35	34.84	35.18	130.87	528.08	-29.98	267.27	197.87	69.41	3.851		
9,900.00	9,749.31	9,771.26	9,738.72	34.86	35.23	130.49	528.54	-30.00	287.38	217.94	69.44	4.139		
9,925.00	9,759.93	9,781.48	9,748.93	34.88	35.26	129.51	528.94	-30.03	308.29	238.83	69.46	4.438		
9,950.00	9,769.35	9,790.51	9,757.95	34.90	35.29	127.83	529.28	-30.05	329.91	260.43	69.48	4.748		
9,975.00	9,777.55	9,798.29	9,765.73	34.91	35.32	125.33	529.56	-30.07	352.15	282.65	69.50	5.067		
10,000.00	9,784.50	9,804.80	9,772.23	34.93	35.35	121.82	529.78	-30.08	374.92	305.41	69.51	5.394		
10,025.00	9,790.18	9,810.00	9,777.43	34.95	35.37	117.05	529.96	-30.09	398.13	328.61	69.52	5.727		
10,050.00	9,794.58	9,813.85	9,781.28	34.97	35.38	110.77	530.09	-30.10	421.69	352.17	69.53	6.065		
10,075.00	9,797.69	9,816.34	9,783.77	34.98	35.39	102.72	530.17	-30.10	445.53	376.00	69.53	6.408		
10,100.00	9,799.50	9,817.44	9,784.86	35.00	35.39	92.86	530.20	-30.10	469.56	400.03	69.52	6.754		
10,122.02	9,800.00	9,817.22	9,784.65	35.01	35.39	82.99	530.19	-30.10	490.82	421.30	69.51	7.061		
10,200.00	9,800.00	9,814.47	9,781.89	35.08	35.38	81.75	530.11	-30.10	566.54	497.05	69.49	8.153		
10,300.00	9,800.00	9,810.80	9,778.23	35.22	35.37	80.11	529.99	-30.09	664.39	594.92	69.47	9.564		
10,400.00	9,800.00	11,072.44	10,500.00	35.42	38.00	179.98	-221.03	101.39	700.00	659.72	40.28	17.380		
10,500.00	9,800.00	11,172.44	10,500.00	35.67	38.26	179.98	-321.03	102.31	700.00	659.24	40.76	17.175		
10,600.00	9,800.00	11,272.44	10,500.00	35.99	38.56	179.98	-421.03	103.23	700.00	658.71	41.29	16.952		
10,700.00	9,800.00	11,372.44	10,500.00	36.35	38.91	179.98	-521.02	104.15	700.00	658.12	41.88	16.715		
10,800.00	9,800.00	11,472.44	10,500.00	36.77	39.32	179.98	-621.02	105.07	700.00	657.48	42.52	16.465		
10,900.00	9,800.00	11,572.44	10,500.00	37.25	39.77	179.98	-721.01	105.99	700.00	656.80	43.20	16.204		
11,000.00	9,800.00	11,672.44	10,500.00	37.77	40.27	179.98	-821.01	106.91	700.00	656.07	43.93	15.935		
11,100.00	9,800.00	11,772.44	10,500.00	38.33	40.81	179.98	-921.01	107.83	700.00	655.30	44.70	15.659		
11,200.00	9,800.00	11,872.44	10,500.00	38.94	41.40	179.98	-1,021.00	108.75	700.00	654.48	45.52	15.379		
11,300.00	9,800.00	11,972.44	10,500.00	39.60	42.02	179.98	-1,121.00	109.67	700.00	653.63	46.37	15.096		
11,400.00	9,800.00	12,072.44	10,500.00	40.29	42.69	179.98	-1,220.99	110.59	700.00	652.74	47.26	14.812		
11,500.00	9,800.00	12,172.44	10,500.00	41.03	43.40	179.98	-1,320.99	111.51	700.00	651.82	48.18	14.528		
11,600.00	9,800.00	12,272.44	10,500.00	41.80	44.14	179.98	-1,420.98	112.43	700.00	650.86	49.14	14.245		
11,700.00	9,800.00	12,372.44	10,500.00	42.60	44.91	179.98	-1,520.98	113.35	700.00	649.87	50.13	13.965		
11,800.00	9,800.00	12,472.44	10,500.00	43.44	45.72	179.98	-1,620.98	114.27	700.00	648.85	51.14	13.687		
11,900.00	9,800.00	12,572.44	10,500.00	44.31	46.56	179.98	-1,720.97	115.18	700.00	647.81	52.19	13.413		
12,000.00	9,800.00	12,672.44	10,500.00	45.21	47.42	179.98	-1,820.97	116.10	700.00	646.74	53.26	13.144		
12,100.00	9,800.00	12,772.44	10,500.00	46.13	48.32	179.98	-1,920.96	117.02	700.00	645.65	54.35	12.879		
12,200.00	9,800.00	12,872.44	10,500.00	47.09	49.24	179.98	-2,020.96	117.94	700.00	644.53	55.47	12.620		
12,300.00	9,800.00	12,972.44	10,500.00	48.06	50.18	179.99	-2,120.95	118.86	700.00	643.39	56.61	12.366		
12,400.00	9,800.00	13,072.44	10,500.00	49.06	51.15	179.99	-2,220.95	119.78	700.00	642.23	57.77	12.118		
12,500.00	9,800.00	13,172.44	10,500.00	50.08	52.14	179.99	-2,320.95	120.70	700.00	641.06	58.94	11.876		
12,600.00	9,800.00	13,272.44	10,500.00	51.12	53.15	179.99	-2,420.94	121.62	700.00	639.86	60.14	11.640		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 506H - 506H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWVD+HRGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,700.00	9,800.00	13,372.44	10,500.00	52.18	54.18	179.99	-2,520.94	122.54	700.00	638.65	61.35	11.410	
12,800.00	9,800.00	13,472.44	10,500.00	53.26	55.22	179.99	-2,620.93	123.46	700.00	637.42	62.58	11.186	
12,900.00	9,800.00	13,572.44	10,500.00	54.35	56.29	179.99	-2,720.93	124.38	700.00	636.18	63.82	10.968	
13,000.00	9,800.00	13,672.44	10,500.00	55.46	57.37	179.99	-2,820.92	125.30	700.00	634.92	65.08	10.756	
13,100.00	9,800.00	13,772.44	10,500.00	56.58	58.47	179.99	-2,920.92	126.22	700.00	633.65	66.35	10.550	
13,200.00	9,800.00	13,872.44	10,500.00	57.72	59.58	179.99	-3,020.92	127.14	700.00	632.37	67.63	10.350	
13,300.00	9,800.00	13,972.44	10,500.00	58.87	60.70	179.99	-3,120.91	128.06	700.00	631.07	68.93	10.156	
13,400.00	9,800.00	14,072.44	10,500.00	60.04	61.84	179.99	-3,220.91	128.98	700.00	629.77	70.23	9.967	
13,500.00	9,800.00	14,172.44	10,500.00	61.21	62.99	179.99	-3,320.90	129.90	700.00	628.45	71.55	9.783	
13,600.00	9,800.00	14,272.44	10,500.00	62.40	64.15	179.99	-3,420.90	130.82	700.00	627.12	72.88	9.605	
13,700.00	9,800.00	14,372.44	10,500.00	63.60	65.33	179.99	-3,520.90	131.74	700.00	625.79	74.21	9.432	
13,800.00	9,800.00	14,472.44	10,500.00	64.80	66.51	179.99	-3,620.89	132.66	700.00	624.44	75.56	9.265	
13,900.00	9,800.00	14,572.44	10,500.00	66.02	67.71	179.99	-3,720.89	133.58	700.00	623.09	76.91	9.102	
14,000.00	9,800.00	14,672.44	10,500.00	67.25	68.91	179.99	-3,820.88	134.50	700.00	621.73	78.27	8.943	
14,100.00	9,800.00	14,772.44	10,500.00	68.48	70.12	179.99	-3,920.88	135.42	700.00	620.36	79.64	8.789	
14,200.00	9,800.00	14,872.44	10,500.00	69.72	71.34	179.99	-4,020.87	136.34	700.00	618.98	81.02	8.640	
14,300.00	9,800.00	14,972.44	10,500.00	70.97	72.57	179.99	-4,120.87	137.26	700.00	617.60	82.40	8.495	
14,400.00	9,800.00	15,072.44	10,500.00	72.22	73.81	179.99	-4,220.87	138.18	700.00	616.21	83.79	8.354	
14,500.00	9,800.00	15,172.44	10,500.00	73.49	75.05	179.99	-4,320.86	139.10	700.00	614.81	85.19	8.217	
14,600.00	9,800.00	15,272.44	10,500.00	74.76	76.30	179.99	-4,420.86	140.02	700.00	613.41	86.59	8.084	
14,700.00	9,800.00	15,372.44	10,500.00	76.03	77.56	179.99	-4,520.85	140.94	700.00	612.00	88.00	7.955	
14,800.00	9,800.00	15,472.44	10,500.00	77.31	78.82	179.99	-4,620.85	141.86	700.00	610.59	89.41	7.829	
14,900.00	9,800.00	15,572.44	10,500.00	78.60	80.09	179.99	-4,720.84	142.78	700.00	609.17	90.83	7.707	
15,000.00	9,800.00	15,672.44	10,500.00	79.89	81.36	179.99	-4,820.84	143.70	700.00	607.75	92.25	7.588	
15,100.00	9,800.00	15,772.44	10,500.00	81.19	82.64	179.99	-4,920.84	144.62	700.00	606.32	93.68	7.472	
15,200.00	9,800.00	15,872.44	10,500.00	82.49	83.93	179.99	-5,020.83	145.54	700.00	604.89	95.11	7.360	
15,300.00	9,800.00	15,972.44	10,500.00	83.79	85.22	179.99	-5,120.83	146.46	700.00	603.45	96.55	7.250	
15,400.00	9,800.00	16,072.44	10,500.00	85.10	86.51	179.99	-5,220.82	147.38	700.00	602.01	97.99	7.144	
15,500.00	9,800.00	16,172.44	10,500.00	86.42	87.81	179.99	-5,320.82	148.30	700.00	600.57	99.43	7.040	
15,600.00	9,800.00	16,272.44	10,500.00	87.74	89.12	179.99	-5,420.81	149.22	700.00	599.12	100.88	6.939	
15,700.00	9,800.00	16,372.44	10,500.00	89.06	90.42	180.00	-5,520.81	150.14	700.00	597.67	102.33	6.840	
15,800.00	9,800.00	16,472.44	10,500.00	90.38	91.74	180.00	-5,620.81	151.06	700.00	596.21	103.79	6.745	
15,900.00	9,800.00	16,572.44	10,500.00	91.71	93.05	180.00	-5,720.80	151.98	700.00	594.75	105.25	6.651	
16,000.00	9,800.00	16,672.44	10,500.00	93.05	94.37	180.00	-5,820.80	152.90	700.00	593.29	106.71	6.560	
16,100.00	9,800.00	16,772.44	10,500.00	94.38	95.69	180.00	-5,920.79	153.82	700.00	591.83	108.17	6.471	
16,200.00	9,800.00	16,872.44	10,500.00	95.72	97.02	180.00	-6,020.79	154.74	700.00	590.36	109.64	6.385	
16,300.00	9,800.00	16,972.44	10,500.00	97.06	98.35	180.00	-6,120.79	155.66	700.00	588.89	111.11	6.300	
16,400.00	9,800.00	17,072.44	10,500.00	98.40	99.68	180.00	-6,220.78	156.58	700.00	587.42	112.58	6.218	
16,500.00	9,800.00	17,172.44	10,500.00	99.75	101.02	180.00	-6,320.78	157.50	700.00	585.94	114.06	6.137	
16,600.00	9,800.00	17,272.44	10,500.00	101.10	102.36	180.00	-6,420.77	158.42	700.00	584.46	115.54	6.059	
16,700.00	9,800.00	17,372.44	10,500.00	102.45	103.70	180.00	-6,520.77	159.34	700.00	582.98	117.02	5.982	
16,800.00	9,800.00	17,472.44	10,500.00	103.81	105.04	180.00	-6,620.76	160.26	700.00	581.50	118.50	5.907	
16,900.00	9,800.00	17,572.44	10,500.00	105.16	106.39	180.00	-6,720.76	161.18	700.00	580.01	119.99	5.834	
17,000.00	9,800.00	17,672.44	10,500.00	106.52	107.73	180.00	-6,820.76	162.10	700.00	578.53	121.47	5.763	
17,100.00	9,800.00	17,772.44	10,500.00	107.88	109.08	180.00	-6,920.75	163.02	700.00	577.04	122.96	5.693	
17,200.00	9,800.00	17,872.44	10,500.00	109.24	110.44	180.00	-7,020.75	163.94	700.00	575.55	124.45	5.625	
17,300.00	9,800.00	17,972.44	10,500.00	110.61	111.79	180.00	-7,120.74	164.86	700.00	574.05	125.95	5.558	
17,400.00	9,800.00	18,072.44	10,500.00	111.98	113.00	-180.00	-7,220.74	165.78	700.00	572.83	127.17	5.504	
17,413.25	9,800.00	18,085.69	10,500.00	112.16	113.15	180.00	-7,233.99	165.90	700.00	572.68	127.32	5.498	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

2/12/2022 11:28:18AM

Page 14

COMPASS 5000.15 Build 93A



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 606H - 606H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	179.54	-149.99	1.20	149.99				
100.00	100.00	100.00	100.00	0.13	0.13	179.54	-149.99	1.20	149.99	149.73	0.27	557.904	
200.00	200.00	200.00	200.00	0.49	0.49	179.54	-149.99	1.20	149.99	149.01	0.99	152.156	
300.00	300.00	300.00	300.00	0.85	0.85	179.54	-149.99	1.20	149.99	148.29	1.70	88.090	
400.00	400.00	400.00	400.00	1.21	1.21	179.54	-149.99	1.20	149.99	147.58	2.42	61.989	
500.00	500.00	500.00	500.00	1.57	1.57	179.54	-149.99	1.20	149.99	146.86	3.14	47.820	
600.00	600.00	600.00	600.00	1.93	1.93	179.54	-149.99	1.20	149.99	146.14	3.85	38.924	
700.00	700.00	700.00	700.00	2.29	2.29	179.54	-149.99	1.20	149.99	145.42	4.57	32.818	
800.00	800.00	800.00	800.00	2.64	2.64	179.54	-149.99	1.20	149.99	144.71	5.29	28.368	
900.00	900.00	900.00	900.00	3.00	3.00	179.54	-149.99	1.20	149.99	143.99	6.00	24.981	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	179.54	-149.99	1.20	149.99	143.27	6.72	22.316	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	179.54	-149.99	1.20	149.99	142.56	7.44	20.165	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	179.54	-149.99	1.20	149.99	141.84	8.16	18.392	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	179.54	-149.99	1.20	149.99	141.12	8.87	16.906	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	179.54	-149.99	1.20	149.99	140.41	9.59	15.642	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	179.54	-149.99	1.20	149.99	139.69	10.31	14.554	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	179.54	-149.99	1.20	149.99	138.97	11.02	13.607	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	179.54	-149.99	1.20	149.99	138.25	11.74	12.776	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	179.54	-149.99	1.20	149.99	137.54	12.46	12.041	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	179.54	-149.99	1.20	149.99	136.82	13.17	11.386	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	179.54	-149.99	1.20	149.99	136.10	13.89	10.798	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	179.54	-149.99	1.20	149.99	135.39	14.61	10.268	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	179.54	-149.99	1.20	149.99	134.67	15.32	9.788	
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	179.54	-149.99	1.20	149.99	133.95	16.04	9.350	
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	179.54	-149.99	1.20	149.99	133.24	16.76	8.950	
2,500.00	2,500.00	2,500.00	2,500.00	8.74	8.74	179.54	-149.99	1.20	149.99	132.52	17.48	8.583	
2,600.00	2,600.00	2,600.00	2,600.00	9.10	9.10	179.54	-149.99	1.20	149.99	131.80	18.19	8.245	
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	179.54	-149.99	1.20	149.99	131.09	18.91	7.932	
2,800.00	2,800.00	2,800.00	2,800.00	9.81	9.81	179.54	-149.99	1.20	149.99	130.37	19.63	7.643	
2,900.00	2,900.00	2,900.00	2,900.00	10.17	10.17	179.54	-149.99	1.20	149.99	129.65	20.34	7.373	
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	179.54	-149.99	1.20	149.99	128.93	21.06	7.122	
3,100.00	3,100.00	3,100.00	3,100.00	10.89	10.89	179.54	-149.99	1.20	149.99	128.22	21.78	6.888	
3,200.00	3,200.00	3,200.00	3,200.00	11.25	11.25	179.54	-149.99	1.20	149.99	127.50	22.49	6.668	
3,300.00	3,300.00	3,300.00	3,300.00	11.61	11.61	179.54	-149.99	1.20	149.99	126.78	23.21	6.462	
3,400.00	3,400.00	3,400.00	3,400.00	11.96	11.96	179.54	-149.99	1.20	149.99	126.07	23.93	6.269	
3,500.00	3,500.00	3,500.00	3,500.00	12.32	12.32	179.54	-149.99	1.20	149.99	125.35	24.64	6.086	
3,600.00	3,600.00	3,600.00	3,600.00	12.68	12.68	179.54	-149.99	1.20	149.99	124.63	25.36	5.914	
3,700.00	3,700.00	3,700.00	3,700.00	13.04	13.04	179.54	-149.99	1.20	149.99	123.92	26.08	5.752	
3,800.00	3,800.00	3,800.00	3,800.00	13.40	13.40	179.54	-149.99	1.20	149.99	123.20	26.80	5.598	
3,900.00	3,900.00	3,900.00	3,900.00	13.76	13.76	179.54	-149.99	1.20	149.99	122.48	27.51	5.452	
4,000.00	4,000.00	4,000.00	4,000.00	14.11	14.11	179.54	-149.99	1.20	149.99	121.77	28.23	5.313	
4,100.00	4,100.00	4,100.00	4,100.00	14.47	14.47	179.54	-149.99	1.20	149.99	121.05	28.95	5.182	
4,200.00	4,200.00	4,200.00	4,200.00	14.83	14.83	179.54	-149.99	1.20	149.99	120.33	29.66	5.057	
4,300.00	4,300.00	4,300.00	4,300.00	15.19	15.19	179.54	-149.99	1.20	149.99	119.61	30.38	4.937	
4,400.00	4,400.00	4,400.00	4,400.00	15.55	15.55	179.54	-149.99	1.20	149.99	118.90	31.10	4.823	
4,500.00	4,500.00	4,500.00	4,500.00	15.91	15.91	179.54	-149.99	1.20	149.99	118.18	31.81	4.715	
4,600.00	4,600.00	4,600.00	4,600.00	16.27	16.27	179.54	-149.99	1.20	149.99	117.46	32.53	4.611	
4,700.00	4,700.00	4,700.00	4,700.00	16.62	16.62	179.54	-149.99	1.20	149.99	116.75	33.25	4.511	
4,800.00	4,800.00	4,800.00	4,800.00	16.98	16.98	179.54	-149.99	1.20	149.99	116.03	33.97	4.416	
4,900.00	4,900.00	4,900.00	4,900.00	17.34	17.34	179.54	-149.99	1.20	149.99	115.31	34.68	4.325	
5,000.00	5,000.00	5,000.00	5,000.00	17.70	17.70	179.54	-149.99	1.20	149.99	114.60	35.40	4.237	
5,100.00	5,100.00	5,100.00	5,100.00	18.06	18.06	179.54	-149.99	1.20	149.99	113.88	36.12	4.153	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 606H - 606H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWVD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,200.00	5,200.00	5,200.00	18.42	18.42	179.54	-149.99	1.20	149.99	113.16	36.83	4.072	
5,300.00	5,300.00	5,300.00	5,300.00	18.77	18.77	179.54	-149.99	1.20	149.99	112.44	37.55	3.995	
5,400.00	5,400.00	5,400.00	5,400.00	19.13	19.13	179.54	-149.99	1.20	149.99	111.73	38.27	3.920	
5,500.00	5,500.00	5,500.00	5,500.00	19.49	19.49	179.54	-149.99	1.20	149.99	111.01	38.98	3.848	
5,600.00	5,600.00	5,600.00	5,600.00	19.85	19.85	179.54	-149.99	1.20	149.99	110.29	39.70	3.778	
5,620.00	5,620.00	5,620.00	5,620.00	19.92	19.92	179.54	-149.99	1.20	149.99	110.15	39.84	3.765	
5,700.00	5,700.00	5,702.06	5,702.05	20.21	20.22	169.47	-149.43	1.36	150.00	109.57	40.42	3.711	
5,800.00	5,799.97	5,804.63	5,804.60	20.57	20.58	169.37	-147.13	2.03	150.00	108.86	41.13	3.647	
5,900.00	5,899.89	5,907.20	5,907.08	20.92	20.95	169.19	-143.08	3.22	150.00	108.17	41.84	3.586	
6,000.00	5,999.72	6,009.76	6,009.46	21.28	21.32	168.93	-137.27	4.91	150.01	107.49	42.53	3.528	
6,100.00	6,099.44	6,112.32	6,111.71	21.64	21.68	168.60	-129.70	7.12	150.03	106.82	43.21	3.472	
6,200.00	6,199.01	6,214.87	6,213.80	22.00	22.05	168.20	-120.37	9.84	150.06	106.18	43.88	3.420	
6,300.00	6,298.40	6,317.41	6,315.69	22.35	22.41	167.71	-109.29	13.07	150.10	105.56	44.54	3.370	
6,400.00	6,397.59	6,419.95	6,417.35	22.71	22.78	167.15	-96.47	16.82	150.16	104.98	45.19	3.323	
6,500.00	6,496.54	6,522.47	6,518.74	23.06	23.14	166.52	-81.90	21.07	150.25	104.42	45.83	3.278	
6,600.00	6,595.23	6,624.50	6,619.36	23.42	23.51	165.81	-65.71	25.79	150.40	103.92	46.48	3.236	
6,700.00	6,693.62	6,724.47	6,717.87	23.78	23.87	165.21	-49.29	30.58	151.72	104.52	47.20	3.215	
6,800.00	6,791.68	6,824.42	6,816.34	24.14	24.23	164.79	-32.87	35.37	154.74	106.82	47.92	3.229	
6,870.43	6,860.52	6,894.77	6,885.66	24.40	24.49	164.60	-21.31	38.75	157.87	109.45	48.42	3.260	
6,900.00	6,889.40	6,924.31	6,914.76	24.51	24.60	164.54	-16.46	40.16	159.37	110.73	48.63	3.277	
7,000.00	6,987.02	7,024.18	7,013.15	24.88	24.96	164.36	-0.06	44.95	164.41	115.06	49.35	3.332	
7,100.00	7,084.65	7,124.05	7,111.55	25.25	25.33	164.19	16.35	49.73	169.47	119.39	50.07	3.385	
7,200.00	7,182.28	7,223.92	7,209.95	25.62	25.70	164.03	32.75	54.52	174.52	123.72	50.79	3.436	
7,300.00	7,279.91	7,323.79	7,308.35	26.00	26.07	163.87	49.16	59.31	179.57	128.05	51.52	3.486	
7,400.00	7,377.54	7,423.67	7,406.75	26.38	26.44	163.73	65.56	64.09	184.62	132.38	52.24	3.534	
7,500.00	7,475.16	7,523.54	7,505.15	26.76	26.82	163.59	81.97	68.88	189.68	136.71	52.97	3.581	
7,600.00	7,572.79	7,623.41	7,603.54	27.14	27.19	163.46	98.37	73.67	194.74	141.04	53.70	3.627	
7,700.00	7,670.42	7,723.28	7,701.94	27.53	27.57	163.34	114.78	78.45	199.79	145.37	54.43	3.671	
7,800.00	7,768.05	7,823.15	7,800.34	27.92	27.95	163.22	131.18	83.24	204.85	149.69	55.16	3.714	
7,900.00	7,865.68	7,923.02	7,898.74	28.31	28.33	163.11	147.59	88.03	209.91	154.02	55.89	3.756	
8,000.00	7,963.30	8,022.89	7,997.14	28.70	28.71	163.00	163.99	92.81	214.97	158.34	56.63	3.796	
8,100.00	8,060.93	8,122.76	8,095.54	29.09	29.09	162.90	180.40	97.60	220.03	162.67	57.36	3.836	
8,121.60	8,082.02	8,144.33	8,116.79	29.18	29.17	162.88	183.94	98.63	221.13	163.60	57.52	3.844	
8,200.00	8,158.67	8,222.66	8,193.96	29.49	29.47	162.77	196.80	102.39	224.58	166.48	58.10	3.865	
8,300.00	8,256.76	8,322.61	8,292.43	29.88	29.86	162.52	213.22	107.18	227.51	168.67	58.84	3.866	
8,400.00	8,355.17	8,422.59	8,390.94	30.27	30.24	162.14	229.64	111.97	228.78	169.19	59.58	3.840	
8,500.00	8,453.88	8,522.56	8,489.44	30.66	30.63	161.62	246.07	116.76	228.40	168.07	60.33	3.786	
8,600.00	8,552.85	8,622.51	8,587.91	31.05	31.01	160.95	262.48	121.55	226.39	165.31	61.08	3.707	
8,700.00	8,652.06	8,722.39	8,686.32	31.43	31.40	160.11	278.89	126.34	222.77	160.94	61.83	3.603	
8,800.00	8,751.47	8,822.18	8,784.63	31.81	31.79	159.07	295.28	131.12	217.57	154.98	62.58	3.476	
8,900.00	8,851.05	8,921.84	8,882.83	32.18	32.18	157.80	311.65	135.90	210.82	147.48	63.34	3.328	
9,000.00	8,950.78	9,021.35	8,980.87	32.55	32.57	156.25	328.00	140.67	202.59	138.48	64.11	3.160	
9,100.00	9,050.62	9,120.67	9,078.73	32.92	32.96	154.34	344.31	145.43	192.94	128.07	64.88	2.974	
9,200.00	9,150.54	9,219.78	9,176.37	33.28	33.34	151.97	360.59	150.18	181.98	116.33	65.66	2.772	
9,300.00	9,250.52	9,318.64	9,273.78	33.63	33.73	149.01	376.83	154.91	169.87	103.42	66.45	2.556	
9,372.02	9,322.54	9,389.68	9,343.77	33.88	34.01	156.44	388.50	158.32	160.55	93.52	67.04	2.395	
9,375.00	9,325.52	9,392.61	9,346.66	33.89	34.02	-23.17	388.98	158.46	160.15	93.09	67.06	2.388	
9,400.00	9,350.50	9,417.09	9,370.78	33.97	34.12	-24.48	393.00	159.63	156.14	88.89	67.26	2.322	
9,425.00	9,375.41	9,441.29	9,394.61	34.04	34.22	-26.13	396.97	160.79	151.04	83.58	67.46	2.239	
9,450.00	9,400.17	9,465.12	9,418.10	34.12	34.31	-28.19	400.89	161.93	144.90	77.23	67.67	2.141	
9,475.00	9,424.72	9,488.54	9,441.17	34.18	34.40	-30.74	404.74	163.06	137.80	69.92	67.88	2.030	
9,500.00	9,448.99	9,511.47	9,463.76	34.25	34.49	-33.90	408.50	164.16	129.85	61.75	68.10	1.907	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 606H - 606H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,525.00	9,472.91	9,533.85	9,485.82	34.31	34.58	-37.80	412.18	165.23	121.21	52.88	68.33	1.774	
9,550.00	9,496.42	9,555.63	9,507.27	34.37	34.67	-42.61	415.76	166.27	112.08	43.51	68.57	1.635	
9,575.00	9,519.46	9,576.73	9,528.06	34.42	34.75	-48.51	419.22	167.28	102.78	33.95	68.83	1.493	Level 3
9,600.00	9,541.95	9,597.11	9,548.14	34.47	34.83	-55.61	422.57	168.26	93.74	24.65	69.09	1.357	Level 3
9,625.00	9,563.85	9,616.70	9,567.44	34.52	34.91	-63.91	425.79	169.20	85.63	16.29	69.34	1.235	Level 2
9,650.00	9,585.08	9,635.46	9,585.92	34.56	34.98	-73.15	428.87	170.10	79.35	9.82	69.53	1.141	Level 2
9,675.00	9,605.59	9,653.33	9,603.53	34.60	35.05	-82.78	431.80	170.95	76.03	6.42	69.61	1.092	Level 2
9,683.77	9,612.61	9,659.38	9,609.49	34.61	35.08	-86.12	432.80	171.24	75.77	6.17	69.60	1.089	Level 2, CC, ES, SF
9,700.00	9,625.33	9,670.26	9,620.21	34.64	35.12	-92.09	434.59	171.77	76.70	7.17	69.53	1.103	Level 2
9,725.00	9,644.23	9,686.21	9,635.92	34.67	35.18	-100.44	437.21	172.53	81.87	12.52	69.34	1.181	Level 2
9,750.00	9,662.26	9,701.13	9,650.63	34.71	35.24	-107.45	439.66	173.25	91.27	22.13	69.14	1.320	Level 3
9,775.00	9,679.35	9,714.99	9,664.28	34.74	35.30	-113.01	441.93	173.91	104.20	35.21	68.99	1.510	
9,800.00	9,695.47	9,727.73	9,676.83	34.76	35.35	-117.17	444.03	174.52	119.87	50.95	68.91	1.739	
9,825.00	9,710.56	9,739.34	9,688.27	34.79	35.39	-120.05	445.93	175.08	137.61	68.73	68.88	1.998	
9,850.00	9,724.59	9,749.77	9,698.55	34.81	35.43	-121.74	447.65	175.58	156.94	88.07	68.87	2.279	
9,875.00	9,737.52	9,759.01	9,707.65	34.84	35.47	-122.29	449.16	176.02	177.52	108.63	68.89	2.577	
9,900.00	9,749.31	9,767.01	9,715.53	34.86	35.50	-121.69	450.48	176.40	199.06	130.15	68.91	2.889	
9,925.00	9,759.93	9,773.77	9,722.19	34.88	35.53	-119.85	451.59	176.73	221.38	152.45	68.94	3.211	
9,950.00	9,769.35	9,779.26	9,727.60	34.90	35.55	-116.58	452.49	176.99	244.32	175.36	68.96	3.543	
9,975.00	9,777.55	9,783.47	9,731.75	34.91	35.57	-111.61	453.18	177.19	267.73	198.75	68.98	3.881	
10,000.00	9,784.50	9,786.38	9,734.62	34.93	35.58	-104.60	453.66	177.33	291.51	222.51	69.00	4.225	
10,025.00	9,790.18	9,787.99	9,736.21	34.95	35.59	-95.34	453.92	177.41	315.55	246.53	69.01	4.572	
10,050.00	9,794.58	9,788.30	9,736.51	34.97	35.59	-83.98	453.97	177.42	339.75	270.73	69.02	4.922	
10,075.00	9,797.69	9,787.30	9,735.52	34.98	35.58	-71.42	453.81	177.38	364.02	295.00	69.03	5.274	
10,100.00	9,799.50	9,784.99	9,733.25	35.00	35.57	-59.11	453.43	177.26	388.29	319.27	69.03	5.625	
10,122.02	9,800.00	9,781.89	9,730.19	35.01	35.56	-49.47	452.92	177.12	409.59	340.57	69.02	5.934	
10,200.00	9,800.00	9,769.11	9,717.61	35.08	35.51	-44.52	450.82	176.50	485.11	416.10	69.01	7.030	
10,300.00	9,800.00	9,752.73	9,701.47	35.22	35.45	-39.15	448.13	175.72	582.48	513.49	68.99	8.443	
10,400.00	9,800.00	9,736.35	9,685.33	35.42	35.38	-34.70	445.44	174.93	680.23	611.26	68.97	9.863	
10,500.00	9,800.00	9,719.97	9,669.19	35.67	35.32	-31.00	442.75	174.15	778.20	709.25	68.95	11.286	
10,600.00	9,800.00	9,703.59	9,653.05	35.99	35.25	-27.89	440.06	173.36	876.33	807.40	68.93	12.713	
10,700.00	9,800.00	9,687.21	9,636.91	36.35	35.19	-25.26	437.37	172.58	974.56	905.65	68.91	14.143	
10,800.00	9,800.00	9,670.83	9,620.77	36.77	35.12	-23.02	434.68	171.79	1,072.86	1,003.98	68.89	15.574	
10,900.00	9,800.00	9,654.44	9,604.63	37.25	35.06	-21.09	431.99	171.01	1,171.23	1,102.36	68.87	17.007	
11,000.00	9,800.00	9,638.06	9,588.49	37.77	34.99	-19.41	429.30	170.22	1,269.64	1,200.79	68.85	18.441	
11,100.00	9,800.00	9,621.68	9,572.35	38.33	34.93	-17.95	426.61	169.44	1,368.08	1,299.25	68.83	19.876	
11,200.00	9,800.00	9,605.30	9,556.21	38.94	34.86	-16.65	423.92	168.65	1,466.55	1,397.74	68.81	21.312	
11,300.00	9,800.00	12,771.57	11,300.00	39.60	43.83	179.98	-1,121.00	109.29	1,499.99	1,451.18	48.81	30.730	
11,400.00	9,800.00	12,871.57	11,300.00	40.29	44.40	179.98	-1,221.00	110.22	1,499.99	1,450.32	49.67	30.199	
11,500.00	9,800.00	12,971.57	11,300.00	41.03	45.01	179.98	-1,320.99	111.15	1,499.99	1,449.43	50.56	29.667	
11,600.00	9,800.00	13,071.57	11,300.00	41.80	45.66	179.98	-1,420.99	112.07	1,499.99	1,448.51	51.49	29.134	
11,700.00	9,800.00	13,171.57	11,300.00	42.60	46.35	179.98	-1,520.98	113.00	1,499.99	1,447.55	52.44	28.603	
11,800.00	9,800.00	13,271.57	11,300.00	43.44	47.07	179.98	-1,620.98	113.92	1,499.99	1,446.57	53.43	28.076	
11,900.00	9,800.00	13,371.57	11,300.00	44.31	47.82	179.98	-1,720.97	114.85	1,499.99	1,445.56	54.44	27.555	
12,000.00	9,800.00	13,471.57	11,300.00	45.21	48.60	179.98	-1,820.97	115.78	1,500.00	1,444.52	55.47	27.040	
12,100.00	9,800.00	13,571.57	11,300.00	46.13	49.41	179.98	-1,920.97	116.70	1,500.00	1,443.46	56.54	26.532	
12,200.00	9,800.00	13,671.57	11,300.00	47.09	50.25	179.98	-2,020.96	117.63	1,500.00	1,442.38	57.62	26.033	
12,300.00	9,800.00	13,771.57	11,300.00	48.06	51.12	179.98	-2,120.96	118.55	1,500.00	1,441.27	58.73	25.542	
12,400.00	9,800.00	13,871.57	11,300.00	49.06	52.01	179.98	-2,220.95	119.48	1,500.00	1,440.14	59.85	25.061	
12,500.00	9,800.00	13,971.57	11,300.00	50.08	52.93	179.98	-2,320.95	120.41	1,500.00	1,439.00	61.00	24.590	
12,600.00	9,800.00	14,071.57	11,300.00	51.12	53.87	179.98	-2,420.94	121.33	1,500.00	1,437.83	62.16	24.130	
12,700.00	9,800.00	14,171.57	11,300.00	52.18	54.83	179.98	-2,520.94	122.26	1,500.00	1,436.65	63.35	23.679	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design Golden Tee 31 Fed Com 606H - 606H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWVD+HRGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,800.00	9,800.00	14,271.57	11,300.00	53.26	55.82	179.98	-2,620.94	123.18	1,500.00	1,435.45	64.54	23.240	
12,900.00	9,800.00	14,371.57	11,300.00	54.35	56.82	179.98	-2,720.93	124.11	1,500.00	1,434.24	65.76	22.811	
13,000.00	9,800.00	14,471.57	11,300.00	55.46	57.84	179.98	-2,820.93	125.03	1,500.00	1,433.01	66.99	22.392	
13,100.00	9,800.00	14,571.57	11,300.00	56.58	58.88	179.98	-2,920.92	125.96	1,500.00	1,431.77	68.23	21.984	
13,200.00	9,800.00	14,671.57	11,300.00	57.72	59.93	179.98	-3,020.92	126.89	1,500.00	1,430.51	69.49	21.587	
13,300.00	9,800.00	14,771.57	11,300.00	58.87	61.00	179.98	-3,120.91	127.81	1,500.00	1,429.24	70.75	21.200	
13,400.00	9,800.00	14,871.57	11,300.00	60.04	62.09	179.99	-3,220.91	128.74	1,500.00	1,427.96	72.03	20.824	
13,500.00	9,800.00	14,971.57	11,300.00	61.21	63.18	179.99	-3,320.91	129.66	1,500.00	1,426.67	73.32	20.457	
13,600.00	9,800.00	15,071.57	11,300.00	62.40	64.30	179.99	-3,420.90	130.59	1,500.00	1,425.37	74.63	20.100	
13,700.00	9,800.00	15,171.57	11,300.00	63.60	65.42	179.99	-3,520.90	131.52	1,500.00	1,424.06	75.94	19.753	
13,800.00	9,800.00	15,271.57	11,300.00	64.80	66.56	179.99	-3,620.89	132.44	1,500.00	1,422.74	77.26	19.415	
13,900.00	9,800.00	15,371.57	11,300.00	66.02	67.71	179.99	-3,720.89	133.37	1,500.00	1,421.41	78.59	19.086	
14,000.00	9,800.00	15,471.57	11,300.00	67.25	68.87	179.99	-3,820.88	134.29	1,500.00	1,420.07	79.93	18.767	
14,100.00	9,800.00	15,571.57	11,300.00	68.48	70.04	179.99	-3,920.88	135.22	1,500.00	1,418.72	81.28	18.456	
14,200.00	9,800.00	15,671.57	11,300.00	69.72	71.22	179.99	-4,020.88	136.15	1,500.00	1,417.37	82.63	18.153	
14,300.00	9,800.00	15,771.57	11,300.00	70.97	72.41	179.99	-4,120.87	137.07	1,500.00	1,416.00	83.99	17.859	
14,400.00	9,800.00	15,871.57	11,300.00	72.22	73.61	179.99	-4,220.87	138.00	1,500.00	1,414.63	85.36	17.572	
14,500.00	9,800.00	15,971.57	11,300.00	73.49	74.81	179.99	-4,320.86	138.92	1,500.00	1,413.26	86.74	17.293	
14,600.00	9,800.00	16,071.57	11,300.00	74.76	76.03	179.99	-4,420.86	139.85	1,500.00	1,411.88	88.12	17.022	
14,700.00	9,800.00	16,171.57	11,300.00	76.03	77.25	179.99	-4,520.85	140.78	1,500.00	1,410.49	89.51	16.758	
14,800.00	9,800.00	16,271.57	11,300.00	77.31	78.48	179.99	-4,620.85	141.70	1,500.00	1,409.09	90.90	16.501	
14,900.00	9,800.00	16,371.57	11,300.00	78.60	79.72	179.99	-4,720.85	142.63	1,500.00	1,407.69	92.31	16.250	
15,000.00	9,800.00	16,471.57	11,300.00	79.89	80.96	179.99	-4,820.84	143.55	1,500.00	1,406.29	93.71	16.007	
15,100.00	9,800.00	16,571.57	11,300.00	81.19	82.21	179.99	-4,920.84	144.48	1,500.00	1,404.88	95.12	15.769	
15,200.00	9,800.00	16,671.57	11,300.00	82.49	83.47	179.99	-5,020.83	145.41	1,500.00	1,403.46	96.54	15.538	
15,300.00	9,800.00	16,771.57	11,300.00	83.79	84.73	179.99	-5,120.83	146.33	1,500.00	1,402.04	97.96	15.313	
15,400.00	9,800.00	16,871.57	11,300.00	85.10	86.00	179.99	-5,220.82	147.26	1,500.00	1,400.62	99.38	15.093	
15,500.00	9,800.00	16,971.57	11,300.00	86.42	87.27	179.99	-5,320.82	148.18	1,500.00	1,399.19	100.81	14.879	
15,600.00	9,800.00	17,071.57	11,300.00	87.74	88.55	179.99	-5,420.82	149.11	1,500.00	1,397.76	102.24	14.671	
15,700.00	9,800.00	17,171.57	11,300.00	89.06	89.83	179.99	-5,520.81	150.04	1,500.00	1,396.32	103.68	14.468	
15,800.00	9,800.00	17,271.57	11,300.00	90.38	91.12	179.99	-5,620.81	150.96	1,500.00	1,394.88	105.12	14.269	
15,900.00	9,800.00	17,371.57	11,300.00	91.71	92.41	179.99	-5,720.80	151.89	1,500.00	1,393.43	106.57	14.076	
16,000.00	9,800.00	17,471.57	11,300.00	93.05	93.71	179.99	-5,820.80	152.81	1,500.00	1,391.99	108.01	13.887	
16,100.00	9,800.00	17,571.57	11,300.00	94.38	95.01	180.00	-5,920.79	153.74	1,500.00	1,390.53	109.46	13.703	
16,200.00	9,800.00	17,671.57	11,300.00	95.72	96.32	180.00	-6,020.79	154.67	1,500.00	1,389.08	110.92	13.523	
16,300.00	9,800.00	17,771.57	11,300.00	97.06	97.62	180.00	-6,120.79	155.59	1,500.00	1,387.62	112.38	13.348	
16,400.00	9,800.00	17,871.57	11,300.00	98.40	98.94	180.00	-6,220.78	156.52	1,500.00	1,386.16	113.84	13.177	
16,500.00	9,800.00	17,971.57	11,300.00	99.75	100.25	180.00	-6,320.78	157.44	1,500.00	1,384.70	115.30	13.010	
16,600.00	9,800.00	18,071.57	11,300.00	101.10	101.57	180.00	-6,420.77	158.37	1,500.00	1,383.23	116.77	12.846	
16,700.00	9,800.00	18,171.57	11,300.00	102.45	102.89	180.00	-6,520.77	159.30	1,500.00	1,381.76	118.23	12.687	
16,800.00	9,800.00	18,271.57	11,300.00	103.81	104.22	180.00	-6,620.76	160.22	1,500.00	1,380.29	119.71	12.531	
16,900.00	9,800.00	18,371.57	11,300.00	105.16	105.55	180.00	-6,720.76	161.15	1,500.00	1,378.82	121.18	12.378	
17,000.00	9,800.00	18,471.57	11,300.00	106.52	106.88	180.00	-6,820.76	162.07	1,500.00	1,377.34	122.66	12.229	
17,100.00	9,800.00	18,571.57	11,300.00	107.88	108.21	180.00	-6,920.75	163.00	1,500.00	1,375.87	124.13	12.084	
17,200.00	9,800.00	18,671.57	11,300.00	109.24	109.55	180.00	-7,020.75	163.93	1,500.00	1,374.39	125.61	11.941	
17,300.00	9,800.00	18,771.57	11,300.00	110.61	110.89	180.00	-7,120.74	164.85	1,500.00	1,372.90	127.10	11.802	
17,400.00	9,800.00	18,871.57	11,300.00	111.98	112.23	-180.00	-7,220.74	165.78	1,500.00	1,371.42	128.58	11.666	
17,413.25	9,800.00	18,884.83	11,300.00	112.16	112.41	-180.00	-7,233.99	165.90	1,500.00	1,371.22	128.78	11.648	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	1.00	-39.74	876.01	-728.26	1,139.30				
100.00	100.00	82.88	82.88	0.13	1.19	-39.74	876.07	-728.27	1,139.25	1,137.92	1.33	859.653	
200.00	200.00	181.07	181.07	0.49	1.73	-39.73	876.34	-728.28	1,139.46	1,137.24	2.22	512.446	
300.00	300.00	282.41	282.41	0.85	2.32	-39.71	876.73	-728.20	1,139.71	1,136.59	3.12	365.232	
400.00	400.00	383.19	383.19	1.21	2.79	-39.69	877.10	-727.96	1,139.84	1,136.01	3.83	297.559	
500.00	500.00	482.40	482.40	1.57	3.25	-39.67	877.51	-727.69	1,139.98	1,135.44	4.54	250.833	
600.00	600.00	581.58	581.57	1.93	3.67	-39.64	878.01	-727.39	1,140.18	1,134.92	5.25	217.034	
700.00	700.00	680.04	680.03	2.29	4.07	-39.61	878.59	-727.20	1,140.51	1,134.54	5.96	191.223	
800.00	800.00	781.95	781.94	2.64	4.53	-39.58	879.28	-726.93	1,140.86	1,134.13	6.73	169.595	
900.00	900.00	885.28	885.27	3.00	4.96	-39.56	879.65	-726.56	1,140.90	1,133.44	7.47	152.778	
1,000.00	1,000.00	985.56	985.55	3.36	5.21	-39.55	879.66	-726.36	1,140.79	1,132.73	8.06	141.519	
1,100.00	1,100.00	1,085.87	1,085.85	3.72	5.48	-39.55	879.55	-726.37	1,140.71	1,132.04	8.67	131.496	
1,200.00	1,200.00	1,187.00	1,186.99	4.08	5.79	-39.56	879.23	-726.44	1,140.51	1,131.16	9.35	122.002	
1,300.00	1,300.00	1,286.87	1,286.86	4.44	6.12	-39.59	878.73	-726.70	1,140.29	1,130.26	10.03	113.725	
1,400.00	1,400.00	1,386.33	1,386.32	4.79	6.46	-39.63	878.09	-727.16	1,140.09	1,129.38	10.71	106.439	
1,487.57	1,487.57	1,471.99	1,471.97	5.11	6.74	-39.66	877.60	-727.61	1,140.00	1,128.70	11.30	100.849	
1,500.00	1,500.00	1,484.08	1,484.06	5.15	6.77	-39.67	877.55	-727.68	1,140.01	1,128.62	11.39	100.108	
1,600.00	1,600.00	1,582.60	1,582.58	5.51	7.07	-39.70	877.15	-728.33	1,140.11	1,128.05	12.06	94.514	
1,700.00	1,700.00	1,680.45	1,680.42	5.87	7.35	-39.75	876.75	-729.19	1,140.36	1,127.64	12.72	89.643	
1,800.00	1,800.00	1,780.70	1,780.67	6.23	7.61	-39.79	876.51	-730.02	1,140.71	1,127.33	13.37	85.298	
1,900.00	1,900.00	1,883.79	1,883.75	6.59	7.93	-39.84	876.04	-730.86	1,140.87	1,126.82	14.05	81.187	
2,000.00	2,000.00	1,978.42	1,978.38	6.95	8.19	-39.88	875.75	-731.64	1,141.17	1,126.50	14.67	77.780	
2,100.00	2,100.00	2,079.54	2,079.50	7.30	8.49	-39.87	876.27	-731.88	1,141.72	1,126.36	15.36	74.321	
2,200.00	2,200.00	2,185.52	2,185.47	7.66	8.92	-39.78	877.56	-730.74	1,141.97	1,125.72	16.25	70.284	
2,300.00	2,300.00	2,306.70	2,306.62	8.02	9.29	-39.69	877.97	-728.56	1,141.11	1,124.08	17.03	67.011	
2,400.00	2,400.00	2,438.24	2,438.08	8.38	9.58	-39.66	874.99	-725.30	1,137.79	1,120.15	17.64	64.502	
2,500.00	2,500.00	2,559.41	2,559.03	8.74	9.96	-39.76	868.40	-722.46	1,132.09	1,113.69	18.40	61.531	
2,600.00	2,600.00	2,682.81	2,681.93	9.10	10.40	-40.06	857.49	-721.05	1,124.60	1,105.34	19.26	58.393	
2,700.00	2,700.00	2,821.57	2,819.61	9.45	10.85	-40.56	840.36	-719.16	1,114.30	1,094.14	20.16	55.268	
2,800.00	2,800.00	2,930.54	2,927.40	9.81	11.42	-40.99	824.55	-716.52	1,101.70	1,080.59	21.11	52.183	
2,900.00	2,900.00	3,037.94	3,033.47	10.17	12.02	-41.46	807.91	-713.84	1,088.35	1,066.30	22.06	49.346	
3,000.00	3,000.00	3,144.33	3,138.36	10.53	12.59	-41.99	790.33	-711.25	1,074.34	1,051.37	22.96	46.785	
3,100.00	3,100.00	3,246.00	3,238.44	10.89	13.06	-42.54	772.61	-708.86	1,059.79	1,036.00	23.78	44.560	
3,200.00	3,200.00	3,342.75	3,333.70	11.25	13.41	-43.07	755.86	-706.59	1,045.41	1,020.93	24.48	42.707	
3,300.00	3,300.00	3,429.66	3,419.33	11.61	13.75	-43.55	741.13	-704.53	1,031.43	1,006.26	25.17	40.977	
3,400.00	3,400.00	3,505.70	3,494.50	11.96	14.09	-43.95	729.71	-703.52	1,019.58	993.70	25.87	39.409	
3,500.00	3,500.00	3,592.48	3,580.51	12.32	14.52	-44.38	718.16	-702.83	1,009.44	982.83	26.61	37.939	
3,600.00	3,600.00	3,680.00	3,667.39	12.68	14.87	-44.78	707.63	-702.17	1,000.34	973.05	27.29	36.655	
3,700.00	3,700.00	3,774.00	3,760.85	13.04	15.24	-45.18	697.58	-701.92	992.55	964.58	27.97	35.481	
3,800.00	3,800.00	3,850.63	3,837.14	13.40	15.54	-45.49	690.46	-702.43	986.37	957.76	28.60	34.483	
3,900.00	3,900.00	3,934.48	3,920.72	13.76	15.88	-45.82	683.84	-703.60	981.84	952.60	29.24	33.576	
4,000.00	4,000.00	4,016.44	4,002.53	14.11	16.23	-46.07	679.05	-705.02	979.03	949.18	29.85	32.793	
4,100.00	4,100.00	4,101.34	4,087.37	14.47	16.56	-46.25	676.30	-706.54	978.05	947.62	30.44	32.133	
4,126.82	4,126.82	4,125.20	4,111.22	14.57	16.64	-46.29	675.83	-706.94	978.01	947.42	30.59	31.971	
4,200.00	4,200.00	4,195.31	4,181.32	14.83	16.84	-46.37	674.91	-708.08	978.21	947.20	31.01	31.543	
4,300.00	4,300.00	4,296.09	4,282.07	15.19	17.11	-46.49	673.67	-709.64	978.48	946.88	31.60	30.967	
4,400.00	4,400.00	4,396.44	4,382.40	15.55	17.38	-46.60	672.45	-711.09	978.70	946.51	32.19	30.403	
4,500.00	4,500.00	4,496.78	4,482.73	15.91	17.67	-46.70	671.38	-712.36	978.89	946.10	32.79	29.854	
4,600.00	4,600.00	4,597.33	4,583.27	16.27	17.96	-46.79	670.37	-713.51	979.03	945.64	33.39	29.317	
4,700.00	4,700.00	4,698.16	4,684.10	16.62	18.26	-46.86	669.49	-714.45	979.11	945.09	34.02	28.779	
4,800.00	4,800.00	4,798.86	4,784.79	16.98	18.57	-46.92	668.78	-715.10	979.10	944.45	34.65	28.256	
4,900.00	4,900.00	4,900.46	4,886.39	17.34	18.90	-46.96	668.13	-715.55	978.99	943.69	35.30	27.731	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	5,000.00	5,001.01	4,986.93	17.70	19.25	-47.00	667.51	-715.81	978.75	942.79	35.97	27.213	
5,100.00	5,100.00	5,100.31	5,086.23	18.06	19.59	-47.02	667.09	-715.89	978.53	941.90	36.63	26.715	
5,200.00	5,200.00	5,200.28	5,186.20	18.42	19.90	-47.03	666.83	-715.88	978.35	941.07	37.28	26.245	
5,300.00	5,300.00	5,302.16	5,288.08	18.77	20.19	-47.04	666.51	-715.77	978.05	940.13	37.92	25.793	
5,400.00	5,400.00	5,402.24	5,388.16	19.13	20.47	-47.05	666.10	-715.66	977.69	939.13	38.55	25.359	
5,500.00	5,500.00	5,503.68	5,489.60	19.49	20.68	-47.05	665.77	-715.32	977.22	938.08	39.13	24.970	
5,600.00	5,600.00	5,602.10	5,588.02	19.85	20.84	-47.04	665.62	-714.81	976.74	937.06	39.68	24.613	
5,620.00	5,620.00	5,621.66	5,607.58	19.92	20.87	-47.04	665.60	-714.74	976.67	936.88	39.79	24.543	
5,700.00	5,700.00	5,700.15	5,686.07	20.21	21.02	-57.11	665.56	-714.52	976.18	935.94	40.24	24.258	
5,800.00	5,799.97	5,798.15	5,784.07	20.57	21.23	-57.24	665.46	-714.45	974.83	934.01	40.81	23.886	
5,900.00	5,899.89	5,892.96	5,878.87	20.92	21.38	-57.45	665.54	-714.82	973.00	931.69	41.31	23.552	
6,000.00	5,999.72	5,991.57	5,977.49	21.28	21.48	-57.76	665.94	-715.25	970.51	928.74	41.77	23.233	
6,100.00	6,099.44	6,091.06	6,076.97	21.64	21.59	-58.14	666.68	-715.66	967.32	925.05	42.27	22.883	
6,200.00	6,199.01	6,193.48	6,179.39	22.00	21.72	-58.65	667.09	-715.90	962.90	920.11	42.79	22.502	
6,300.00	6,298.40	6,290.15	6,276.06	22.35	21.85	-59.22	667.64	-716.17	957.80	914.50	43.31	22.117	
6,400.00	6,397.59	6,387.27	6,373.17	22.71	21.98	-59.89	668.37	-716.56	952.13	908.30	43.83	21.725	
6,500.00	6,496.54	6,484.87	6,470.76	23.06	22.11	-60.67	669.25	-717.15	945.96	901.63	44.33	21.338	
6,600.00	6,595.23	6,583.80	6,569.70	23.42	22.23	-61.58	669.90	-717.98	939.15	894.33	44.82	20.952	
6,700.00	6,693.62	6,682.42	6,668.31	23.78	22.36	-62.60	670.64	-718.72	931.74	886.41	45.33	20.556	
6,800.00	6,791.68	6,779.94	6,765.82	24.14	22.50	-63.71	671.42	-719.42	923.82	877.97	45.85	20.149	
6,870.43	6,860.52	6,848.93	6,834.81	24.40	22.61	-64.56	672.08	-719.90	918.04	871.81	46.23	19.858	
6,900.00	6,889.40	6,878.40	6,864.27	24.51	22.65	-64.92	672.36	-720.09	915.58	869.18	46.40	19.734	
7,000.00	6,987.02	6,977.57	6,963.44	24.88	22.82	-66.12	673.26	-720.61	907.39	860.42	46.98	19.316	
7,100.00	7,084.65	7,074.36	7,060.23	25.25	23.00	-67.31	674.24	-721.00	899.57	852.00	47.57	18.910	
7,200.00	7,182.28	7,171.82	7,157.68	25.62	23.19	-68.51	675.46	-721.41	892.30	844.12	48.18	18.518	
7,300.00	7,279.31	7,270.31	7,256.15	26.00	23.39	-69.74	676.85	-721.68	885.41	836.59	48.82	18.137	
7,400.00	7,377.54	7,371.06	7,356.90	26.38	23.60	-71.00	678.25	-721.77	878.77	829.29	49.47	17.762	
7,500.00	7,475.16	7,467.11	7,452.94	26.76	23.81	-72.23	679.44	-721.79	872.42	822.30	50.12	17.407	
7,600.00	7,572.79	7,562.09	7,547.91	27.14	24.02	-73.46	680.77	-722.08	866.82	816.06	50.77	17.075	
7,700.00	7,670.42	7,660.28	7,646.08	27.53	24.24	-74.72	682.53	-722.39	861.85	810.41	51.43	16.757	
7,800.00	7,768.05	7,757.27	7,743.04	27.92	24.47	-75.95	684.70	-722.49	857.31	805.20	52.10	16.454	
7,900.00	7,865.68	7,859.09	7,844.83	28.31	24.70	-77.22	687.39	-722.30	853.07	800.28	52.80	16.158	
8,000.00	7,963.30	7,955.00	7,940.71	28.70	24.94	-78.42	689.99	-722.10	849.25	795.78	53.47	15.882	
8,100.00	8,060.93	8,054.28	8,039.95	29.09	25.19	-79.69	692.62	-721.98	845.91	791.74	54.17	15.617	
8,121.60	8,082.02	8,074.77	8,060.44	29.18	25.25	-79.95	693.16	-721.93	845.21	790.90	54.31	15.562	
8,200.00	8,158.67	8,149.47	8,135.10	29.49	25.45	-80.84	695.25	-721.84	843.08	788.23	54.85	15.371	
8,300.00	8,256.76	8,248.99	8,234.58	29.88	25.72	-81.93	698.28	-721.75	841.01	785.46	55.55	15.140	
8,400.00	8,355.17	8,352.02	8,337.55	30.27	26.02	-82.93	701.55	-721.22	839.12	782.87	56.25	14.917	
8,500.00	8,453.88	8,456.70	8,442.18	30.66	26.33	-83.82	704.79	-720.34	837.34	780.39	56.95	14.702	
8,600.00	8,552.85	8,564.27	8,549.73	31.05	26.73	-84.89	703.78	-719.13	834.54	776.86	57.69	14.467	
8,700.00	8,652.06	8,659.32	8,644.75	31.43	27.09	-85.82	701.59	-718.54	832.32	773.93	58.39	14.255	
8,800.00	8,751.47	8,755.97	8,741.39	31.81	27.38	-86.62	699.98	-718.08	830.73	771.67	59.06	14.066	
8,900.00	8,851.05	8,855.21	8,840.62	32.18	27.63	-87.30	698.93	-717.79	829.72	770.03	59.69	13.900	
9,000.00	8,950.78	8,955.01	8,940.41	32.55	27.81	-87.78	699.00	-717.03	828.67	768.41	60.26	13.752	
9,091.18	9,041.81	9,039.44	9,024.85	32.88	27.96	-88.08	699.37	-716.65	828.17	767.42	60.75	13.633 CC	
9,100.00	9,050.62	9,047.30	9,032.70	32.92	27.97	-88.10	699.40	-716.66	828.18	767.38	60.80	13.622 ES	
9,200.00	9,150.54	9,139.22	9,124.62	33.28	28.17	-88.33	699.98	-717.34	828.90	767.56	61.34	13.513	
9,300.00	9,250.52	9,234.38	9,219.76	33.63	28.40	-88.40	701.34	-718.56	830.39	768.47	61.92	13.411	
9,372.02	9,322.54	9,303.88	9,289.24	33.88	28.57	-78.32	702.76	-719.69	831.82	769.47	62.35	13.342	
9,375.00	9,325.52	9,306.81	9,292.17	33.89	28.58	102.20	702.82	-719.74	831.89	769.52	62.36	13.339	
9,400.00	9,350.50	9,331.36	9,316.71	33.97	28.64	102.20	703.34	-720.18	832.60	770.09	62.50	13.321	
9,425.00	9,375.41	9,355.81	9,341.15	34.04	28.70	102.25	703.85	-720.62	833.60	770.96	62.64	13.308	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,450.00	9,400.17	9,379.80	9,365.13	34.12	28.77	102.34	704.35	-721.07	834.91	772.14	62.77	13.301 SF	
9,475.00	9,424.72	9,402.51	9,387.83	34.18	28.82	102.46	704.82	-721.54	836.56	773.67	62.89	13.303	
9,500.00	9,448.99	9,424.93	9,410.24	34.25	28.87	102.61	705.28	-722.04	838.57	775.58	63.00	13.311	
9,525.00	9,472.91	9,447.00	9,432.30	34.31	28.93	102.77	705.72	-722.59	840.98	777.88	63.10	13.327	
9,550.00	9,496.42	9,469.00	9,454.29	34.37	28.98	102.96	706.16	-723.18	843.80	780.59	63.21	13.350	
9,575.00	9,519.46	9,490.28	9,475.55	34.42	29.03	103.14	706.60	-723.78	847.04	783.74	63.30	13.381	
9,600.00	9,541.95	9,511.31	9,496.57	34.47	29.08	103.34	707.07	-724.40	850.74	787.35	63.39	13.420	
9,625.00	9,563.85	9,531.72	9,516.96	34.52	29.13	103.51	707.56	-725.02	854.92	791.44	63.48	13.468	
9,650.00	9,585.08	9,551.42	9,536.65	34.56	29.17	103.66	708.07	-725.64	859.60	796.05	63.56	13.525	
9,675.00	9,605.59	9,572.60	9,557.81	34.60	29.23	103.86	708.65	-726.31	864.82	801.18	63.64	13.589	
9,700.00	9,625.33	9,597.24	9,582.43	34.64	29.29	104.19	709.23	-727.01	870.50	806.75	63.74	13.656	
9,725.00	9,644.23	9,620.98	9,606.17	34.67	29.35	104.49	709.69	-727.56	876.64	812.80	63.84	13.732	
9,750.00	9,662.26	9,643.77	9,628.95	34.71	29.41	104.73	710.03	-727.99	883.27	819.35	63.92	13.818	
9,775.00	9,679.35	9,665.55	9,650.72	34.74	29.46	104.90	710.27	-728.30	890.45	826.45	64.00	13.913	
9,800.00	9,695.47	9,681.28	9,666.44	34.76	29.51	104.74	710.44	-728.50	898.25	834.19	64.06	14.022	
9,825.00	9,710.56	9,697.19	9,682.36	34.79	29.55	104.53	710.61	-728.68	906.70	842.59	64.12	14.142	
9,850.00	9,724.59	9,711.96	9,697.12	34.81	29.59	104.19	710.76	-728.82	915.82	851.66	64.17	14.273	
9,875.00	9,737.52	9,725.53	9,710.69	34.84	29.63	103.72	710.91	-728.94	925.62	861.41	64.21	14.416	
9,900.00	9,749.31	9,737.87	9,723.04	34.86	29.66	103.09	711.05	-729.03	936.09	871.85	64.24	14.571	
9,925.00	9,759.93	9,748.96	9,734.12	34.88	29.69	102.30	711.17	-729.11	947.24	882.96	64.27	14.737	
9,950.00	9,769.35	9,758.17	9,743.33	34.90	29.72	101.30	711.27	-729.16	959.05	894.75	64.30	14.916	
9,975.00	9,777.55	9,765.80	9,750.96	34.91	29.74	100.09	711.36	-729.21	971.50	907.19	64.31	15.106	
10,000.00	9,784.50	9,772.21	9,757.37	34.93	29.76	98.69	711.43	-729.25	984.58	920.25	64.32	15.307	
10,025.00	9,790.18	9,777.40	9,762.56	34.95	29.77	97.10	711.49	-729.28	998.24	933.91	64.33	15.518	
10,050.00	9,794.58	9,781.34	9,766.50	34.97	29.79	95.31	711.54	-729.31	1,012.44	948.11	64.33	15.739	
10,075.00	9,797.69	9,784.05	9,769.20	34.98	29.79	93.32	711.57	-729.33	1,027.14	962.82	64.32	15.969	
10,100.00	9,799.50	9,785.49	9,770.65	35.00	29.80	91.13	711.59	-729.34	1,042.29	977.98	64.31	16.207	
10,122.02	9,800.00	9,785.73	9,770.89	35.01	29.80	89.06	711.59	-729.34	1,055.96	991.66	64.30	16.423	
10,200.00	9,800.00	9,784.84	9,770.00	35.08	29.80	89.00	711.58	-729.33	1,106.53	1,042.27	64.26	17.220	
10,300.00	9,800.00	9,783.70	9,768.86	35.22	29.79	88.92	711.57	-729.33	1,175.77	1,111.54	64.23	18.306	
10,400.00	9,800.00	9,782.57	9,767.73	35.42	29.79	88.84	711.55	-729.32	1,249.19	1,184.97	64.22	19.451	
10,500.00	9,800.00	9,781.45	9,766.60	35.67	29.79	88.76	711.54	-729.31	1,326.09	1,261.86	64.23	20.645	
10,600.00	9,800.00	9,780.32	9,765.48	35.99	29.78	88.68	711.53	-729.30	1,405.89	1,341.64	64.25	21.881	
10,700.00	9,800.00	9,779.21	9,764.37	36.35	29.78	88.60	711.51	-729.29	1,488.14	1,423.86	64.28	23.152	
10,800.00	9,800.00	9,778.09	9,763.25	36.77	29.78	88.53	711.50	-729.29	1,572.45	1,508.14	64.31	24.452	
10,900.00	9,800.00	9,776.99	9,762.15	37.25	29.77	88.45	711.49	-729.28	1,658.49	1,594.15	64.34	25.776	
11,000.00	9,800.00	9,775.88	9,761.04	37.77	29.77	88.37	711.47	-729.27	1,746.03	1,681.65	64.38	27.122	
11,100.00	9,800.00	9,774.78	9,759.94	38.33	29.77	88.30	711.46	-729.27	1,834.84	1,770.42	64.41	28.485	
11,200.00	9,800.00	9,773.69	9,758.85	38.94	29.76	88.22	711.45	-729.26	1,924.75	1,860.29	64.45	29.863	
11,300.00	9,800.00	9,772.60	9,757.76	39.60	29.76	88.14	711.44	-729.25	2,015.60	1,951.11	64.49	31.254	
11,400.00	9,800.00	9,771.51	9,756.67	40.29	29.76	88.07	711.42	-729.24	2,107.29	2,042.76	64.53	32.656	
11,500.00	9,800.00	9,770.43	9,755.59	41.03	29.75	87.99	711.41	-729.24	2,199.70	2,135.13	64.57	34.068	
11,600.00	9,800.00	9,769.35	9,754.51	41.80	29.75	87.92	711.40	-729.23	2,292.74	2,228.14	64.61	35.489	
11,700.00	9,800.00	9,768.28	9,753.44	42.60	29.75	87.84	711.39	-729.22	2,386.35	2,321.71	64.64	36.916	
11,800.00	9,800.00	9,767.21	9,752.37	43.44	29.74	87.77	711.37	-729.22	2,480.46	2,415.78	64.68	38.349	
11,900.00	9,800.00	9,766.15	9,751.31	44.31	29.74	87.70	711.36	-729.21	2,575.01	2,510.29	64.72	39.788	
12,000.00	9,800.00	9,765.09	9,750.25	45.21	29.74	87.62	711.35	-729.20	2,669.95	2,605.20	64.75	41.232	
12,100.00	9,800.00	9,764.03	9,749.19	46.13	29.73	87.55	711.34	-729.20	2,765.26	2,700.47	64.79	42.679	
12,200.00	9,800.00	9,762.98	9,748.14	47.09	29.73	87.47	711.33	-729.19	2,860.88	2,796.05	64.83	44.130	
12,300.00	9,800.00	9,761.93	9,747.10	48.06	29.73	87.40	711.31	-729.18	2,956.79	2,891.93	64.87	45.583	
12,400.00	9,800.00	9,760.89	9,746.05	49.06	29.72	87.33	711.30	-729.18	3,052.97	2,988.06	64.90	47.039	
12,500.00	9,800.00	9,759.85	9,745.01	50.08	29.72	87.26	711.29	-729.17	3,149.38	3,084.44	64.94	48.496	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,600.00	9,800.00	9,753.00	9,738.16	51.12	29.70	86.78	711.21	-729.13	3,246.01	3,181.04	64.97	49.963	
12,700.00	9,800.00	9,753.00	9,738.16	52.18	29.70	86.78	711.21	-729.13	3,342.84	3,277.83	65.01	51.422	
12,800.00	9,800.00	9,753.00	9,738.16	53.26	29.70	86.78	711.21	-729.13	3,439.84	3,374.80	65.05	52.882	
12,900.00	9,800.00	9,753.00	9,738.16	54.35	29.70	86.78	711.21	-729.13	3,537.02	3,471.93	65.09	54.343	
13,000.00	9,800.00	9,753.00	9,738.16	55.46	29.70	86.78	711.21	-729.13	3,634.34	3,569.22	65.13	55.804	
13,100.00	9,800.00	9,753.81	9,738.97	56.58	29.70	86.84	711.22	-729.14	3,731.81	3,666.64	65.17	57.264	
13,200.00	9,800.00	9,752.65	9,737.81	57.72	29.70	86.76	711.21	-729.13	3,829.41	3,764.20	65.21	58.726	
13,300.00	9,800.00	9,751.49	9,736.65	58.87	29.70	86.68	711.20	-729.12	3,927.13	3,861.88	65.25	60.188	
13,400.00	9,800.00	9,750.33	9,735.49	60.04	29.69	86.60	711.18	-729.11	4,024.96	3,959.67	65.29	61.650	
13,500.00	9,800.00	9,749.17	9,734.33	61.21	29.69	86.51	711.17	-729.11	4,122.89	4,057.57	65.33	63.111	
13,600.00	9,800.00	9,748.02	9,733.18	62.40	29.69	86.43	711.16	-729.10	4,220.93	4,155.56	65.37	64.571	
13,700.00	9,800.00	9,746.87	9,732.03	63.60	29.68	86.35	711.14	-729.09	4,319.05	4,253.64	65.41	66.030	
13,800.00	9,800.00	9,745.72	9,730.88	64.80	29.68	86.27	711.13	-729.09	4,417.25	4,351.80	65.45	67.488	
13,900.00	9,800.00	9,744.57	9,729.73	66.02	29.68	86.20	711.12	-729.08	4,515.54	4,450.04	65.50	68.945	
14,000.00	9,800.00	9,743.42	9,728.58	67.25	29.67	86.12	711.11	-729.07	4,613.89	4,548.35	65.54	70.400	
14,100.00	9,800.00	9,742.28	9,727.44	68.48	29.67	86.04	711.09	-729.06	4,712.32	4,646.74	65.58	71.854	
14,200.00	9,800.00	9,741.14	9,726.30	69.72	29.67	85.96	711.08	-729.06	4,810.81	4,745.18	65.63	73.306	
14,300.00	9,800.00	9,740.00	9,725.16	70.97	29.67	85.88	711.07	-729.05	4,909.36	4,843.69	65.67	74.756	
14,400.00	9,800.00	9,738.86	9,724.02	72.22	29.66	85.80	711.06	-729.04	5,007.97	4,942.25	65.72	76.205	
14,500.00	9,800.00	9,737.72	9,722.89	73.49	29.66	85.72	711.04	-729.03	5,106.63	5,040.87	65.76	77.652	
14,600.00	9,800.00	9,736.59	9,721.75	74.76	29.66	85.64	711.03	-729.02	5,205.34	5,139.53	65.81	79.096	
14,700.00	9,800.00	9,735.46	9,720.62	76.03	29.65	85.56	711.02	-729.02	5,304.11	5,238.25	65.86	80.539	
14,800.00	9,800.00	9,734.33	9,719.49	77.31	29.65	85.49	711.01	-729.01	5,402.91	5,337.01	65.91	81.979	
14,900.00	9,800.00	9,733.20	9,718.36	78.60	29.65	85.41	710.99	-729.00	5,501.76	5,435.81	65.95	83.417	
15,000.00	9,800.00	9,732.08	9,717.24	79.89	29.64	85.33	710.98	-728.99	5,600.65	5,534.65	66.00	84.853	
15,100.00	9,800.00	9,730.95	9,716.12	81.19	29.64	85.25	710.97	-728.98	5,699.58	5,633.53	66.05	86.286	
15,200.00	9,800.00	9,729.83	9,714.99	82.49	29.64	85.17	710.96	-728.97	5,798.55	5,732.44	66.11	87.717	
15,300.00	9,800.00	9,728.71	9,713.88	83.79	29.63	85.10	710.95	-728.97	5,897.55	5,831.39	66.16	89.145	
15,400.00	9,800.00	9,727.59	9,712.76	85.10	29.63	85.02	710.93	-728.96	5,996.58	5,930.37	66.21	90.570	
15,500.00	9,800.00	9,726.48	9,711.64	86.42	29.63	84.94	710.92	-728.95	6,095.64	6,029.38	66.26	91.992	
15,600.00	9,800.00	9,725.37	9,710.53	87.74	29.63	84.86	710.91	-728.94	6,194.74	6,128.42	66.32	93.412	
15,700.00	9,800.00	9,724.25	9,709.42	89.06	29.62	84.79	710.90	-728.93	6,293.86	6,227.49	66.37	94.829	
15,800.00	9,800.00	9,723.14	9,708.31	90.38	29.62	84.71	710.88	-728.92	6,393.01	6,326.58	66.43	96.243	
15,900.00	9,800.00	9,722.04	9,707.20	91.71	29.62	84.63	710.87	-728.91	6,492.18	6,425.70	66.48	97.654	
16,000.00	9,800.00	9,720.93	9,706.10	93.05	29.61	84.56	710.86	-728.90	6,591.38	6,524.85	66.54	99.061	
16,100.00	9,800.00	9,719.83	9,704.99	94.38	29.61	84.48	710.85	-728.89	6,690.61	6,624.01	66.60	100.466	
16,200.00	9,800.00	9,718.73	9,703.89	95.72	29.61	84.41	710.84	-728.88	6,789.85	6,723.20	66.65	101.868	
16,300.00	9,800.00	9,717.63	9,702.79	97.06	29.60	84.33	710.82	-728.87	6,889.12	6,822.41	66.71	103.266	
16,400.00	9,800.00	9,716.53	9,701.69	98.40	29.60	84.25	710.81	-728.86	6,988.41	6,921.64	66.77	104.661	
16,500.00	9,800.00	9,715.43	9,700.60	99.75	29.60	84.18	710.80	-728.85	7,087.72	7,020.89	66.83	106.052	
16,600.00	9,800.00	9,714.34	9,699.50	101.10	29.60	84.10	710.79	-728.84	7,187.05	7,120.16	66.89	107.441	
16,700.00	9,800.00	9,713.25	9,698.41	102.45	29.59	84.03	710.78	-728.83	7,286.39	7,219.44	66.95	108.825	
16,800.00	9,800.00	9,712.16	9,697.32	103.81	29.59	83.95	710.77	-728.82	7,385.76	7,318.74	67.02	110.207	
16,900.00	9,800.00	9,711.07	9,696.23	105.16	29.59	83.88	710.75	-728.81	7,485.14	7,418.06	67.08	111.585	
17,000.00	9,800.00	9,709.98	9,695.15	106.52	29.58	83.80	710.74	-728.80	7,584.53	7,517.39	67.14	112.959	
17,100.00	9,800.00	9,708.90	9,694.06	107.88	29.58	83.73	710.73	-728.79	7,683.95	7,616.74	67.21	114.329	
17,200.00	9,800.00	9,707.81	9,692.98	109.24	29.58	83.65	710.72	-728.78	7,783.37	7,716.10	67.27	115.696	
17,300.00	9,800.00	9,706.73	9,691.90	110.61	29.57	83.58	710.71	-728.77	7,882.81	7,815.47	67.34	117.060	
17,400.00	9,800.00	9,705.66	9,690.82	111.98	29.57	83.50	710.70	-728.76	7,982.27	7,914.86	67.41	118.419	
17,413.25	9,800.00	9,705.51	9,690.68	112.16	29.57	83.49	710.69	-728.76	7,995.45	7,928.03	67.42	118.599	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

2/12/2022 11:28:18AM

Page 22

COMPASS 5000.15 Build 93A



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	1.00	-38.35	876.37	-693.27	1,117.53				
100.00	100.00	86.49	86.49	0.13	1.21	-38.35	876.29	-693.28	1,117.37	1,116.04	1.33	839.773	
200.00	200.00	188.12	188.12	0.49	1.79	-38.36	876.01	-693.30	1,117.18	1,114.94	2.24	499.681	
300.00	300.00	288.67	288.67	0.85	2.34	-38.37	875.65	-693.27	1,116.87	1,113.69	3.18	351.725	
400.00	400.00	386.42	386.42	1.21	2.70	-38.37	875.48	-693.17	1,116.67	1,112.83	3.85	290.323	
500.00	500.00	487.39	487.39	1.57	3.04	-38.36	875.47	-692.94	1,116.52	1,112.00	4.52	247.014	
600.00	600.00	588.75	588.75	1.93	3.38	-38.35	875.45	-692.51	1,116.24	1,111.02	5.22	213.965	
700.00	700.00	688.23	688.23	2.29	3.72	-38.33	875.43	-692.00	1,115.91	1,110.01	5.91	188.913	
800.00	800.00	789.14	789.13	2.64	4.09	-38.29	875.61	-691.33	1,115.64	1,109.01	6.63	168.266	
900.00	900.00	889.82	889.81	3.00	4.47	-38.26	875.63	-690.62	1,115.22	1,107.86	7.36	151.575	
1,000.00	1,000.00	990.44	990.43	3.36	5.06	-38.25	875.49	-690.08	1,114.78	1,106.55	8.23	135.457	
1,100.00	1,100.00	1,091.35	1,091.33	3.72	5.73	-38.24	875.20	-689.61	1,114.26	1,105.08	9.18	121.353	
1,200.00	1,200.00	1,190.29	1,190.28	4.08	6.13	-38.24	874.81	-689.28	1,113.74	1,103.81	9.93	112.184	
1,300.00	1,300.00	1,292.26	1,292.24	4.44	6.67	-38.24	874.28	-689.04	1,113.19	1,102.34	10.85	102.639	
1,400.00	1,400.00	1,393.45	1,393.44	4.79	7.19	-38.25	873.56	-688.76	1,112.46	1,100.72	11.75	94.712	
1,500.00	1,500.00	1,490.84	1,490.82	5.15	7.46	-38.27	872.89	-688.67	1,111.87	1,099.46	12.40	89.631	
1,600.00	1,600.00	1,591.31	1,591.29	5.51	7.67	-38.30	872.05	-688.82	1,111.29	1,098.29	13.00	85.459	
1,700.00	1,700.00	1,688.35	1,688.32	5.87	7.87	-38.34	871.31	-689.06	1,110.86	1,097.28	13.58	81.808	
1,800.00	1,800.00	1,786.27	1,786.24	6.23	8.08	-38.36	870.91	-689.36	1,110.72	1,096.57	14.14	78.525	
1,900.00	1,900.00	1,885.62	1,885.60	6.59	8.28	-38.38	870.59	-689.55	1,110.58	1,095.87	14.71	75.483	
1,913.20	1,913.20	1,898.33	1,898.30	6.63	8.31	-38.38	870.56	-689.57	1,110.58	1,095.80	14.79	75.110	
2,000.00	2,000.00	1,982.33	1,982.30	6.95	8.47	-38.39	870.60	-689.71	1,110.70	1,095.45	15.25	72.849	
2,100.00	2,100.00	2,083.85	2,083.81	7.30	8.87	-38.34	871.39	-689.11	1,110.94	1,095.00	15.94	69.682	
2,200.00	2,200.00	2,189.99	2,189.94	7.66	9.35	-38.23	872.65	-687.43	1,110.90	1,094.17	16.72	66.421	
2,300.00	2,300.00	2,322.01	2,321.86	8.02	9.81	-38.02	873.23	-682.76	1,109.07	1,091.53	17.54	63.223	
2,400.00	2,400.00	2,450.36	2,449.94	8.38	10.40	-37.71	872.18	-674.36	1,104.38	1,086.01	18.38	60.099	
2,500.00	2,500.00	2,578.29	2,577.26	8.74	11.18	-37.28	869.90	-662.33	1,097.23	1,077.90	19.33	56.775	
2,600.00	2,600.00	2,702.01	2,700.03	9.10	12.52	-36.76	866.55	-647.35	1,087.74	1,067.05	20.69	52.580	
2,700.00	2,700.00	2,821.28	2,817.97	9.45	13.64	-36.16	862.29	-630.13	1,076.22	1,054.30	21.92	49.088	
2,800.00	2,800.00	2,937.84	2,932.85	9.81	14.64	-35.48	857.27	-611.08	1,063.10	1,040.02	23.08	46.061	
2,900.00	2,900.00	3,035.33	3,028.78	10.17	14.99	-34.87	852.76	-594.34	1,049.33	1,025.58	23.75	44.191	
3,000.00	3,000.00	3,133.30	3,125.21	10.53	15.35	-34.25	848.20	-577.63	1,035.73	1,011.32	24.41	42.435	
3,100.00	3,100.00	3,233.72	3,224.03	10.89	15.74	-33.60	843.49	-560.39	1,022.16	997.08	25.08	40.758	
3,200.00	3,200.00	3,333.18	3,321.89	11.25	16.14	-32.94	838.66	-543.30	1,008.58	982.82	25.76	39.159	
3,300.00	3,300.00	3,431.98	3,419.09	11.61	16.54	-32.26	833.80	-526.28	995.07	968.63	26.44	37.638	
3,400.00	3,400.00	3,532.61	3,518.04	11.96	16.96	-31.53	828.98	-508.63	981.62	954.50	27.12	36.191	
3,500.00	3,500.00	3,636.36	3,619.89	12.32	17.40	-30.71	824.02	-489.46	967.86	940.05	27.81	34.800	
3,600.00	3,600.00	3,738.68	3,720.13	12.68	17.86	-29.82	819.19	-469.54	953.82	925.32	28.50	33.470	
3,700.00	3,700.00	3,840.06	3,819.32	13.04	18.31	-28.88	814.28	-449.14	939.57	910.39	29.18	32.199	
3,800.00	3,800.00	3,932.94	3,910.17	13.40	18.75	-27.99	809.74	-430.40	925.51	895.65	29.86	30.995	
3,900.00	3,900.00	4,027.29	4,002.70	13.76	19.21	-27.12	805.40	-412.44	912.48	881.93	30.55	29.872	
4,000.00	4,000.00	4,127.33	4,100.72	14.11	19.69	-26.14	800.92	-392.98	899.59	868.37	31.23	28.808	
4,100.00	4,100.00	4,223.75	4,195.24	14.47	20.19	-25.18	796.37	-374.47	886.89	854.94	31.95	27.763	
4,200.00	4,200.00	4,318.21	4,287.91	14.83	20.71	-24.24	792.15	-356.66	874.80	842.11	32.69	26.763	
4,300.00	4,300.00	4,412.95	4,380.93	15.19	21.21	-23.28	788.19	-339.11	863.38	829.99	33.39	25.859	
4,400.00	4,400.00	4,507.27	4,473.60	15.55	21.67	-22.31	784.52	-321.97	852.62	818.58	34.05	25.044	
4,500.00	4,500.00	4,601.69	4,566.44	15.91	22.13	-21.33	781.24	-305.05	842.62	807.93	34.69	24.292	
4,600.00	4,600.00	4,697.17	4,660.37	16.27	22.60	-20.32	778.23	-288.21	833.29	797.97	35.32	23.590	
4,700.00	4,700.00	4,792.12	4,753.84	16.62	23.07	-19.31	775.47	-271.74	824.58	788.63	35.95	22.935	
4,800.00	4,800.00	4,886.66	4,846.97	16.98	23.54	-18.30	773.11	-255.65	816.63	780.05	36.57	22.329	
4,900.00	4,900.00	4,984.12	4,943.07	17.34	24.02	-17.27	770.86	-239.59	809.32	772.12	37.19	21.759	
5,000.00	5,000.00	5,088.15	5,045.56	17.70	24.54	-16.11	768.39	-221.92	802.07	764.25	37.82	21.206	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,100.00	5,199.88	5,155.49	18.06	25.11	-14.82	764.50	-202.31	793.95	755.49	38.46	20.642	
5,200.00	5,200.00	5,299.34	5,253.27	18.42	25.62	-13.66	760.04	-184.66	785.12	746.03	39.09	20.087	
5,300.00	5,300.00	5,400.03	5,352.21	18.77	26.15	-12.43	755.41	-166.54	776.45	736.75	39.71	19.554	
5,400.00	5,400.00	5,498.79	5,449.26	19.13	26.66	-11.22	750.66	-148.89	767.97	727.65	40.32	19.046	
5,500.00	5,500.00	5,597.00	5,545.83	19.49	27.16	-10.02	745.75	-131.76	759.73	718.81	40.92	18.567	
5,600.00	5,600.00	5,694.54	5,641.83	19.85	27.67	-8.83	740.95	-115.10	751.98	710.45	41.53	18.109	
5,620.00	5,620.00	5,714.59	5,661.56	19.92	27.77	-8.59	739.96	-111.72	750.47	708.82	41.65	18.019	
5,700.00	5,700.00	5,794.23	5,739.98	20.21	28.19	-17.70	735.91	-98.42	743.96	701.82	42.14	17.654	
5,800.00	5,799.97	5,891.05	5,835.38	20.57	28.70	-16.60	731.02	-82.61	734.69	691.93	42.76	17.183	
5,900.00	5,899.89	5,988.89	5,931.81	20.92	29.22	-15.52	726.26	-66.82	724.25	680.87	43.37	16.698	
6,000.00	5,999.72	6,090.52	6,031.98	21.28	29.75	-14.39	721.04	-50.41	712.15	668.15	44.00	16.186	
6,100.00	6,099.44	6,190.11	6,130.28	21.64	30.27	-13.38	715.45	-35.48	698.26	653.63	44.63	15.647	
6,200.00	6,199.01	6,288.48	6,227.54	22.00	30.78	-12.46	709.87	-21.85	682.91	637.65	45.26	15.088	
6,300.00	6,298.40	6,387.01	6,325.01	22.35	31.29	-11.57	704.06	-8.64	665.85	619.96	45.89	14.508	
6,400.00	6,397.59	6,483.35	6,420.46	22.71	31.79	-10.78	698.50	3.13	647.44	600.90	46.53	13.914	
6,500.00	6,496.54	6,581.62	6,517.93	23.06	32.28	-10.02	692.93	14.35	627.57	580.40	47.17	13.304	
6,600.00	6,595.23	6,680.75	6,616.25	23.42	32.78	-9.23	687.01	25.59	605.85	558.04	47.81	12.672	
6,700.00	6,693.62	6,774.18	6,708.80	23.78	33.26	-8.38	681.40	36.99	582.57	534.13	48.44	12.027	
6,800.00	6,791.68	6,863.19	6,796.94	24.14	33.73	-7.44	677.02	48.66	558.84	509.79	49.05	11.392	
6,870.43	6,860.52	6,915.00	6,848.30	24.40	34.00	-6.90	675.06	55.16	542.16	492.71	49.45	10.964	
6,900.00	6,889.40	6,947.32	6,880.39	24.51	34.17	-6.56	674.22	58.96	535.22	485.56	49.66	10.778	
7,000.00	6,987.02	7,030.58	6,963.21	24.88	34.61	-5.84	674.24	67.39	514.34	464.08	50.25	10.235	
7,100.00	7,084.65	7,135.75	7,067.96	25.25	35.15	-5.01	674.93	76.80	494.17	443.22	50.95	9.700	
7,200.00	7,182.28	7,243.06	7,175.15	25.62	35.71	-4.69	673.25	81.23	471.39	419.70	51.69	9.120	
7,300.00	7,279.91	7,338.72	7,270.75	26.00	36.16	-4.51	671.60	84.14	448.41	396.04	52.37	8.562	
7,400.00	7,377.54	7,435.64	7,367.61	26.38	36.57	-4.32	670.13	87.04	425.65	372.62	53.03	8.026	
7,500.00	7,475.16	7,531.90	7,463.84	26.76	36.98	-4.17	668.82	89.55	402.99	349.30	53.70	7.505	
7,600.00	7,572.79	7,626.88	7,558.79	27.14	37.37	-4.05	668.02	91.72	380.82	326.46	54.35	7.006	
7,700.00	7,670.42	7,722.10	7,653.99	27.53	37.74	-3.98	667.93	93.65	359.33	304.34	54.99	6.534	
7,800.00	7,768.05	7,817.60	7,749.47	27.92	38.05	-3.93	668.44	95.44	338.45	282.88	55.57	6.091	
7,900.00	7,865.68	7,913.45	7,845.30	28.31	38.26	-3.96	669.67	96.80	318.24	262.19	56.05	5.678	
8,000.00	7,963.30	8,010.94	7,942.77	28.70	38.41	-4.08	671.41	97.86	298.49	241.99	56.49	5.283	
8,100.00	8,060.93	8,109.70	8,041.51	29.09	38.54	-4.24	673.08	98.81	278.63	221.70	56.94	4.894	
8,121.60	8,082.02	8,131.06	8,062.87	29.18	38.57	-4.28	673.40	99.00	274.31	217.27	57.03	4.809	
8,200.00	8,158.67	8,208.43	8,140.23	29.49	38.68	-4.41	674.45	99.69	259.01	201.62	57.39	4.513	
8,300.00	8,256.76	8,306.30	8,238.08	29.88	38.84	-4.56	675.75	100.58	240.99	183.13	57.86	4.165	
8,400.00	8,355.17	8,404.70	8,336.46	30.27	39.00	-4.69	677.30	101.60	224.95	166.63	58.32	3.857	
8,500.00	8,453.88	8,503.47	8,435.22	30.66	39.16	-4.78	678.92	102.65	210.69	151.90	58.79	3.584	
8,600.00	8,552.85	8,603.16	8,534.89	31.05	39.34	-4.84	680.52	103.77	198.13	138.86	59.27	3.343	
8,700.00	8,652.06	8,702.69	8,634.41	31.43	39.53	-4.86	681.91	104.83	187.09	127.32	59.76	3.130	
8,800.00	8,751.47	8,802.26	8,733.96	31.81	39.74	-4.81	683.27	106.01	177.75	117.48	60.27	2.949	
8,900.00	8,851.05	8,902.79	8,834.48	32.18	39.99	-4.69	684.41	107.24	169.92	109.12	60.80	2.795	
9,000.00	8,950.78	9,003.86	8,935.53	32.55	40.32	-4.49	684.89	108.44	163.17	101.76	61.41	2.657	
9,100.00	9,050.62	9,104.33	9,035.99	32.92	40.69	-4.21	684.78	109.63	157.58	95.51	62.06	2.539	
9,200.00	9,150.54	9,204.51	9,136.17	33.28	41.02	-4.05	684.41	110.30	153.41	90.72	62.69	2.447	
9,300.00	9,250.52	9,303.99	9,235.65	33.63	41.32	-3.94	684.16	110.71	151.09	87.77	63.32	2.386	
9,357.62	9,308.14	9,361.20	9,292.86	33.83	41.50	-3.86	684.20	110.97	150.72	87.04	63.68	2.367 CC	
9,372.02	9,322.54	9,375.50	9,307.17	33.88	41.55	6.22	684.23	111.04	150.74	86.97	63.77	2.364 ES	
9,375.00	9,325.52	9,378.49	9,310.15	33.89	41.55	-173.25	684.24	111.06	150.76	86.97	63.79	2.363 SF	
9,400.00	9,350.50	9,403.57	9,335.23	33.97	41.63	-173.23	684.29	111.19	151.63	87.70	63.93	2.372	
9,425.00	9,375.41	9,428.57	9,360.23	34.04	41.72	-173.24	684.33	111.33	153.79	89.71	64.08	2.400	
9,450.00	9,400.17	9,453.43	9,385.09	34.12	41.79	-173.28	684.35	111.48	157.22	92.99	64.23	2.448	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,475.00	9,424.72	9,478.09	9,409.75	34.18	41.88	-173.36	684.36	111.65	161.92	97.54	64.38	2.515	
9,500.00	9,448.99	9,502.51	9,434.17	34.25	41.97	-173.44	684.33	111.86	167.86	103.33	64.53	2.601	
9,525.00	9,472.91	9,526.60	9,458.26	34.31	42.06	-173.52	684.28	112.12	175.05	110.37	64.68	2.706	
9,550.00	9,496.42	9,550.30	9,481.95	34.37	42.15	-173.60	684.21	112.43	183.45	118.62	64.83	2.830	
9,575.00	9,519.46	9,573.42	9,505.07	34.42	42.24	-173.67	684.12	112.78	193.04	128.07	64.98	2.971	
9,600.00	9,541.95	9,595.84	9,527.49	34.47	42.33	-173.73	684.03	113.16	203.84	138.72	65.12	3.130	
9,625.00	9,563.85	9,617.66	9,549.31	34.52	42.42	-173.78	683.95	113.56	215.81	150.56	65.25	3.307	
9,650.00	9,585.08	9,638.82	9,570.46	34.56	42.51	-173.82	683.88	113.99	228.91	163.53	65.38	3.501	
9,675.00	9,605.59	9,659.00	9,590.64	34.60	42.59	-173.83	683.83	114.43	243.12	177.62	65.50	3.712	
9,700.00	9,625.33	9,677.03	9,608.66	34.64	42.66	-173.81	683.85	114.83	258.47	192.86	65.61	3.939	
9,725.00	9,644.23	9,693.87	9,625.49	34.67	42.73	-173.76	684.00	115.22	274.96	209.25	65.71	4.184	
9,750.00	9,662.26	9,709.69	9,641.31	34.71	42.80	-173.67	684.25	115.59	292.54	226.74	65.80	4.446	
9,775.00	9,679.35	9,724.46	9,656.07	34.74	42.86	-173.55	684.58	115.94	311.13	245.25	65.88	4.723	
9,800.00	9,695.47	9,738.14	9,669.74	34.76	42.92	-173.37	684.97	116.27	330.66	264.71	65.95	5.014	
9,825.00	9,710.56	9,750.71	9,682.30	34.79	42.97	-173.14	685.39	116.58	351.07	285.05	66.02	5.318	
9,850.00	9,724.59	9,762.15	9,693.73	34.81	43.02	-172.82	685.84	116.86	372.26	306.19	66.07	5.634	
9,875.00	9,737.52	9,776.00	9,707.56	34.84	43.07	-172.50	686.46	117.20	394.20	328.05	66.14	5.960	
9,900.00	9,749.31	9,776.00	9,707.56	34.86	43.07	-171.62	686.46	117.20	416.78	350.66	66.12	6.304	
9,925.00	9,759.93	9,776.00	9,707.56	34.88	43.07	-170.41	686.46	117.20	440.10	374.03	66.08	6.661	
9,950.00	9,769.35	9,776.00	9,707.56	34.90	43.07	-168.62	686.46	117.20	464.00	397.97	66.03	7.027	
9,975.00	9,777.55	9,776.00	9,707.56	34.91	43.07	-165.80	686.46	117.20	488.33	422.33	65.99	7.399	
10,000.00	9,784.50	9,776.00	9,707.56	34.93	43.07	-160.79	686.46	117.20	512.96	446.99	65.97	7.776	
10,025.00	9,790.18	9,776.00	9,707.56	34.95	43.07	-149.92	686.46	117.20	537.79	471.84	65.95	8.154	
10,050.00	9,794.58	9,776.00	9,707.56	34.97	43.07	-117.60	686.46	117.20	562.73	496.78	65.95	8.533	
10,075.00	9,797.69	9,776.00	9,707.56	34.98	43.07	-53.60	686.46	117.20	587.71	521.75	65.96	8.910	
10,100.00	9,799.50	9,776.00	9,707.56	35.00	43.07	-26.00	686.46	117.20	612.65	546.67	65.98	9.285	
10,122.02	9,800.00	9,776.00	9,707.56	35.01	43.07	-17.12	686.46	117.20	634.54	568.53	66.01	9.613	
10,200.00	9,800.00	9,776.00	9,707.56	35.08	43.07	-17.12	686.46	117.20	711.95	645.85	66.10	10.771	
10,300.00	9,800.00	9,776.00	9,707.56	35.22	43.07	-17.12	686.46	117.20	811.38	745.19	66.19	12.259	
10,400.00	9,800.00	9,776.00	9,707.56	35.42	43.07	-17.12	686.46	117.20	910.93	844.68	66.25	13.750	
10,500.00	9,800.00	9,776.00	9,707.56	35.67	43.07	-17.12	686.46	117.20	1,010.57	944.27	66.30	15.243	
10,600.00	9,800.00	9,776.00	9,707.56	35.99	43.07	-17.12	686.46	117.20	1,110.28	1,043.94	66.34	16.737	
10,700.00	9,800.00	9,776.00	9,707.56	36.35	43.07	-17.12	686.46	117.20	1,210.03	1,143.66	66.37	18.231	
10,800.00	9,800.00	9,776.00	9,707.56	36.77	43.07	-17.12	686.46	117.20	1,309.83	1,243.42	66.40	19.726	
10,900.00	9,800.00	9,776.00	9,707.56	37.25	43.07	-17.12	686.46	117.20	1,409.65	1,343.22	66.43	21.221	
11,000.00	9,800.00	9,776.00	9,707.56	37.77	43.07	-17.12	686.46	117.20	1,509.49	1,443.04	66.45	22.716	
11,100.00	9,800.00	9,776.00	9,707.56	38.33	43.07	-17.12	686.46	117.20	1,609.36	1,542.88	66.47	24.211	
11,200.00	9,800.00	9,776.00	9,707.56	38.94	43.07	-17.12	686.46	117.20	1,709.24	1,642.74	66.49	25.705	
11,300.00	9,800.00	9,776.00	9,707.56	39.60	43.07	-17.12	686.46	117.20	1,809.13	1,742.61	66.51	27.199	
11,400.00	9,800.00	9,776.00	9,707.56	40.29	43.07	-17.12	686.46	117.20	1,909.03	1,842.50	66.54	28.692	
11,500.00	9,800.00	9,776.00	9,707.56	41.03	43.07	-17.12	686.46	117.20	2,008.95	1,942.39	66.56	30.184	
11,600.00	9,800.00	9,776.00	9,707.56	41.80	43.07	-17.12	686.46	117.20	2,108.87	2,042.29	66.58	31.676	
11,700.00	9,800.00	9,776.00	9,707.56	42.60	43.07	-17.12	686.46	117.20	2,208.80	2,142.20	66.60	33.166	
11,800.00	9,800.00	9,776.00	9,707.56	43.44	43.07	-17.12	686.46	117.20	2,308.74	2,242.12	66.62	34.656	
11,900.00	9,800.00	9,776.00	9,707.56	44.31	43.07	-17.12	686.46	117.20	2,408.68	2,342.04	66.64	36.144	
12,000.00	9,800.00	9,776.00	9,707.56	45.21	43.07	-17.12	686.46	117.20	2,508.62	2,441.96	66.66	37.632	
12,100.00	9,800.00	9,776.00	9,707.56	46.13	43.07	-17.12	686.46	117.20	2,608.57	2,541.89	66.69	39.118	
12,200.00	9,800.00	9,776.00	9,707.56	47.09	43.07	-17.12	686.46	117.20	2,708.53	2,641.82	66.71	40.602	
12,300.00	9,800.00	9,776.00	9,707.56	48.06	43.07	-17.12	686.46	117.20	2,808.48	2,741.75	66.73	42.086	
12,400.00	9,800.00	9,776.00	9,707.56	49.06	43.07	-17.12	686.46	117.20	2,908.44	2,841.68	66.76	43.567	
12,500.00	9,800.00	9,776.00	9,707.56	50.08	43.07	-17.12	686.46	117.20	3,008.40	2,941.62	66.78	45.047	
12,600.00	9,800.00	9,776.00	9,707.56	51.12	43.07	-17.12	686.46	117.20	3,108.37	3,041.56	66.81	46.526	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,700.00	9,800.00	9,776.00	9,707.56	52.18	43.07	-17.12	686.46	117.20	3,208.34	3,141.50	66.84	48.003	
12,800.00	9,800.00	9,776.00	9,707.56	53.26	43.07	-17.12	686.46	117.20	3,308.30	3,241.44	66.86	49.478	
12,900.00	9,800.00	9,776.00	9,707.56	54.35	43.07	-17.12	686.46	117.20	3,408.28	3,341.38	66.89	50.951	
13,000.00	9,800.00	9,740.42	9,672.02	55.46	42.93	-11.49	685.04	116.32	3,507.80	3,440.94	66.86	52.465	
13,100.00	9,800.00	9,739.16	9,670.76	56.58	42.92	-11.35	685.00	116.29	3,607.74	3,540.86	66.89	53.937	
13,200.00	9,800.00	9,737.94	9,669.54	57.72	42.92	-11.22	684.96	116.26	3,707.69	3,640.77	66.92	55.407	
13,300.00	9,800.00	9,736.76	9,668.37	58.87	42.91	-11.10	684.92	116.24	3,807.64	3,740.69	66.95	56.874	
13,400.00	9,800.00	9,735.62	9,667.23	60.04	42.91	-10.98	684.89	116.21	3,907.59	3,840.61	66.98	58.339	
13,500.00	9,800.00	9,734.52	9,666.12	61.21	42.90	-10.87	684.86	116.18	4,007.55	3,940.54	67.01	59.803	
13,600.00	9,800.00	9,733.45	9,665.05	62.40	42.90	-10.76	684.82	116.16	4,107.50	4,040.46	67.05	61.264	
13,700.00	9,800.00	9,732.41	9,664.01	63.60	42.89	-10.66	684.79	116.13	4,207.46	4,140.38	67.08	62.722	
13,800.00	9,800.00	9,731.40	9,663.01	64.80	42.89	-10.56	684.76	116.11	4,307.42	4,240.30	67.12	64.178	
13,900.00	9,800.00	9,730.42	9,662.03	66.02	42.88	-10.47	684.74	116.08	4,407.38	4,340.22	67.15	65.632	
14,000.00	9,800.00	9,729.47	9,661.08	67.25	42.88	-10.38	684.71	116.06	4,507.34	4,440.15	67.19	67.084	
14,100.00	9,800.00	9,728.55	9,660.16	68.48	42.88	-10.30	684.69	116.04	4,607.30	4,540.07	67.23	68.533	
14,200.00	9,800.00	9,727.66	9,659.27	69.72	42.87	-10.22	684.66	116.02	4,707.26	4,639.99	67.27	69.979	
14,300.00	9,800.00	9,726.79	9,658.40	70.97	42.87	-10.14	684.64	116.00	4,807.22	4,739.92	67.31	71.422	
14,400.00	9,800.00	9,725.94	9,657.55	72.22	42.87	-10.06	684.62	115.98	4,907.19	4,839.84	67.35	72.863	
14,500.00	9,800.00	9,725.12	9,656.73	73.49	42.86	-9.99	684.59	115.96	5,007.15	4,939.76	67.39	74.302	
14,600.00	9,800.00	9,724.32	9,655.93	74.76	42.86	-9.92	684.57	115.94	5,107.12	5,039.69	67.43	75.737	
14,700.00	9,800.00	9,723.54	9,655.15	76.03	42.86	-9.86	684.55	115.92	5,207.09	5,139.61	67.48	77.170	
14,800.00	9,800.00	9,722.78	9,654.39	77.31	42.85	-9.79	684.54	115.90	5,307.06	5,239.54	67.52	78.599	
14,900.00	9,800.00	9,722.04	9,653.65	78.60	42.85	-9.73	684.52	115.88	5,407.03	5,339.46	67.57	80.026	
15,000.00	9,800.00	9,721.32	9,652.93	79.89	42.85	-9.67	684.50	115.87	5,507.00	5,439.38	67.61	81.450	
15,100.00	9,800.00	9,720.61	9,652.23	81.19	42.84	-9.61	684.48	115.85	5,606.97	5,539.31	67.66	82.870	
15,200.00	9,800.00	9,719.93	9,651.54	82.49	42.84	-9.56	684.47	115.83	5,706.94	5,639.23	67.71	84.288	
15,300.00	9,800.00	9,719.26	9,650.87	83.79	42.84	-9.51	684.45	115.82	5,806.91	5,739.15	67.76	85.702	
15,400.00	9,800.00	9,718.61	9,650.22	85.10	42.84	-9.45	684.44	115.80	5,906.88	5,839.08	67.81	87.114	
15,500.00	9,800.00	9,717.97	9,649.59	86.42	42.83	-9.40	684.42	115.79	6,006.86	5,939.00	67.86	88.522	
15,600.00	9,800.00	9,717.35	9,648.96	87.74	42.83	-9.36	684.41	115.77	6,106.83	6,038.92	67.91	89.927	
15,700.00	9,800.00	9,716.74	9,648.36	89.06	42.83	-9.31	684.39	115.76	6,206.81	6,138.84	67.96	91.328	
15,800.00	9,800.00	9,716.15	9,647.76	90.38	42.82	-9.26	684.38	115.74	6,306.78	6,238.77	68.02	92.726	
15,900.00	9,800.00	9,715.57	9,647.19	91.71	42.82	-9.22	684.37	115.73	6,406.76	6,338.69	68.07	94.121	
16,000.00	9,800.00	9,715.00	9,646.62	93.05	42.82	-9.18	684.36	115.72	6,506.73	6,438.61	68.12	95.512	
16,100.00	9,800.00	9,714.45	9,646.07	94.38	42.82	-9.14	684.34	115.70	6,606.71	6,538.53	68.18	96.900	
16,200.00	9,800.00	9,713.91	9,645.52	95.72	42.82	-9.10	684.33	115.69	6,706.69	6,638.45	68.24	98.284	
16,300.00	9,800.00	9,713.38	9,644.99	97.06	42.81	-9.06	684.32	115.68	6,806.67	6,738.37	68.30	99.665	
16,400.00	9,800.00	9,712.86	9,644.48	98.40	42.81	-9.02	684.31	115.66	6,906.64	6,838.29	68.35	101.042	
16,500.00	9,800.00	9,712.35	9,643.97	99.75	42.81	-8.98	684.30	115.65	7,006.62	6,938.21	68.41	102.416	
16,600.00	9,800.00	9,711.86	9,643.47	101.10	42.81	-8.95	684.29	115.64	7,106.60	7,038.13	68.47	103.785	
16,700.00	9,800.00	9,711.37	9,642.99	102.45	42.81	-8.91	684.28	115.63	7,206.58	7,138.05	68.54	105.151	
16,800.00	9,800.00	9,710.89	9,642.51	103.81	42.80	-8.88	684.27	115.62	7,306.56	7,237.97	68.60	106.514	
16,900.00	9,800.00	9,710.43	9,642.05	105.16	42.80	-8.85	684.26	115.61	7,406.54	7,337.88	68.66	107.872	
17,000.00	9,800.00	9,709.97	9,641.59	106.52	42.80	-8.81	684.25	115.60	7,506.52	7,437.80	68.72	109.227	
17,100.00	9,800.00	9,709.52	9,641.14	107.88	42.80	-8.78	684.24	115.59	7,606.51	7,537.72	68.79	110.578	
17,200.00	9,800.00	9,709.08	9,640.70	109.24	42.80	-8.75	684.24	115.58	7,706.49	7,637.63	68.85	111.925	
17,300.00	9,800.00	9,708.65	9,640.27	110.61	42.79	-8.72	684.23	115.57	7,806.47	7,737.55	68.92	113.269	
17,400.00	9,800.00	9,708.23	9,639.85	111.98	42.79	-8.69	684.22	115.56	7,906.45	7,837.47	68.99	114.608	
17,413.25	9,800.00	9,708.18	9,639.80	112.16	42.79	-8.69	684.22	115.55	7,919.70	7,850.71	69.00	114.785	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report

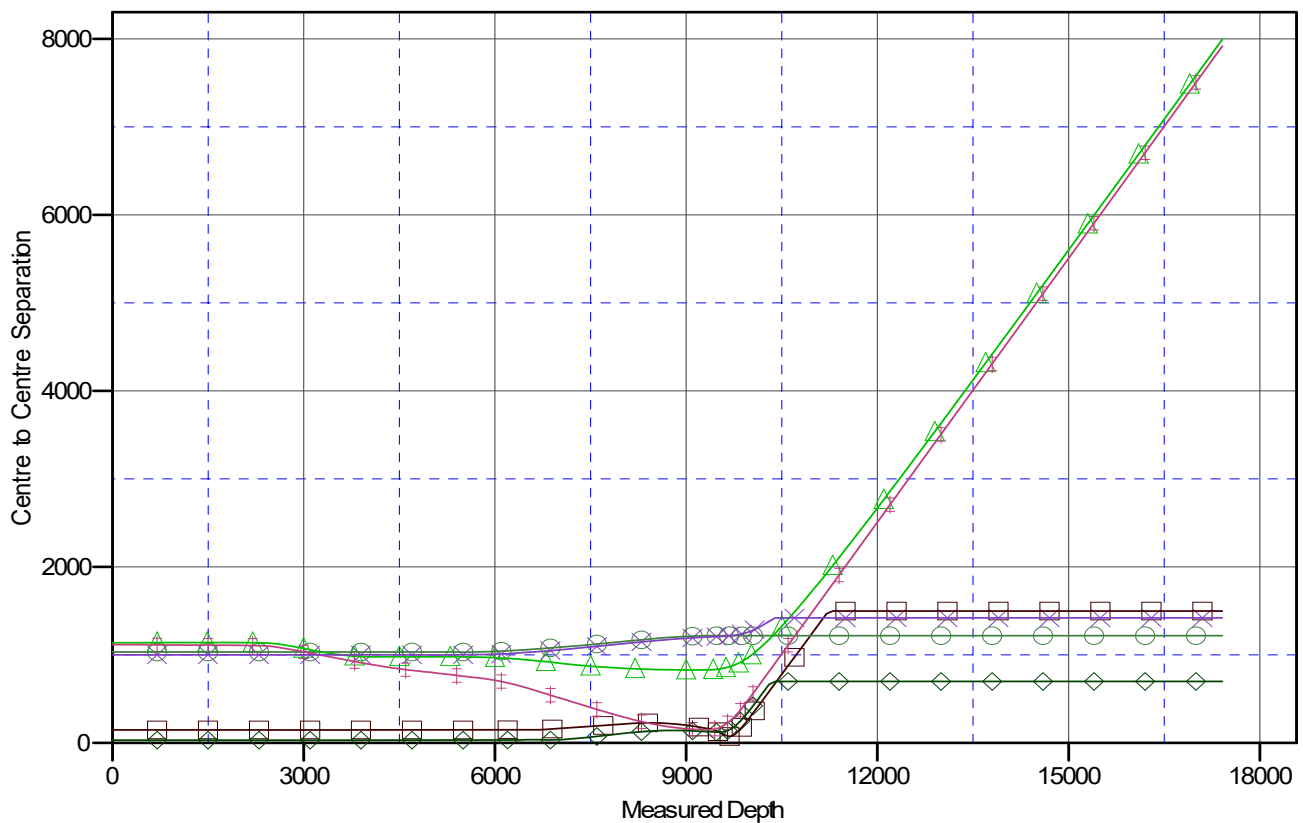


Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3530.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 306H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

609H, Planning, Plan 0.1 V0	509H, OH / 6827, Surveys (H&P 296) V0	509H, Planning, Plan 0.1 V0
309H, Planning, Plan 0.1 V0	507H, OH / 6828, Surveys (H&P 296) V0	509H, Planning, Plan 0.1 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 306H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3530.00usft
Reference Site:	Golden Tee 31 Fed Com 306H	MD Reference:	Well @ 3530.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	306H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 3530.00usft

Offset Depths are relative to Offset Datum

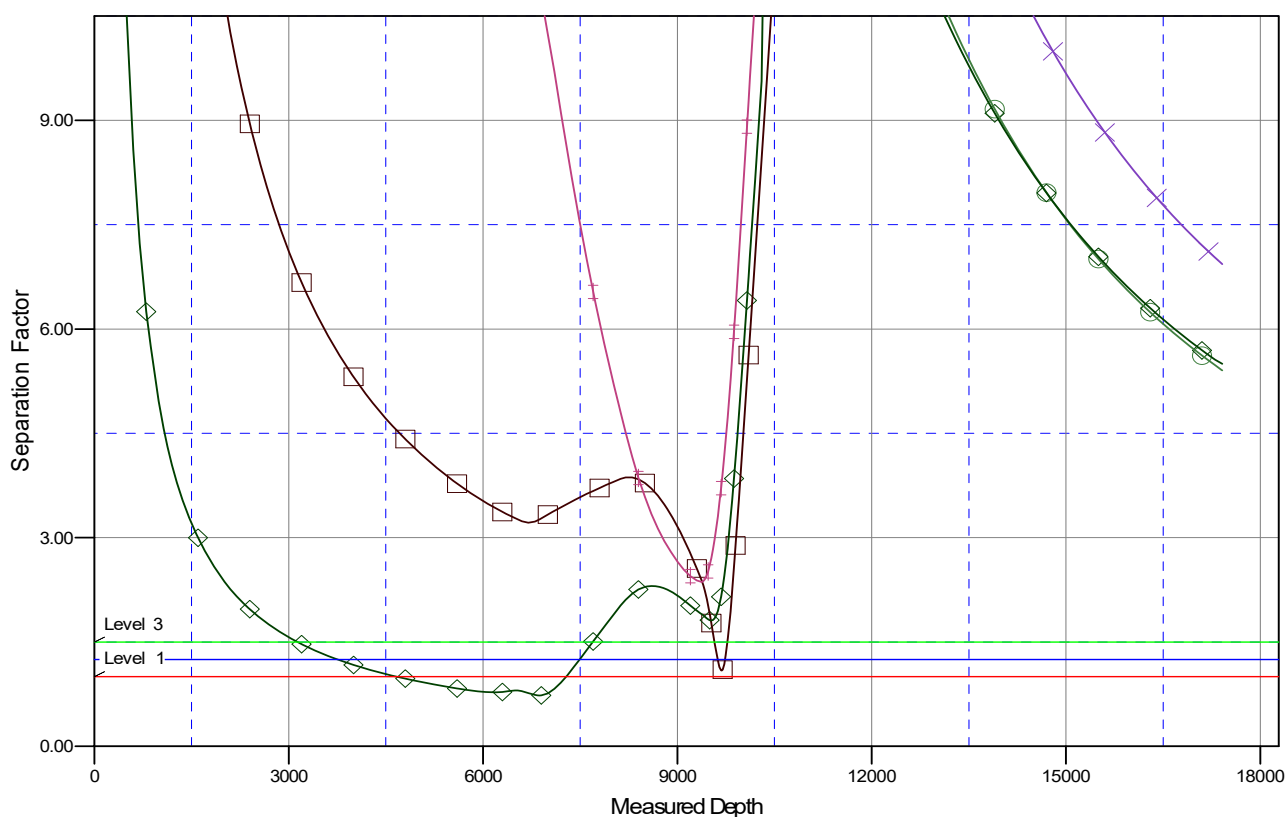
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 306H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

606H, Planning, Plan 0.1 V0	506H, OH / 6827, Surveys (H&P 296) V0	509H, Planning, Plan 0.1 V0
306H, Planning, Plan 0.1 V0	507H, OH / 6828, Surveys (H&P 296) V0	509H, Planning, Plan 0.1 V0



Golden Tee 31 Fed Com 306H
Lea Co., NM (NAD 83)
Job No. WT-22-***
Plan 0.1



SECTION DETAILS

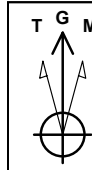
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5620.00	0.00	0.00	5620.00	0.00	0.00	0.00	0.00	0.00	Build: 1°/100
3	6870.43	12.50	10.05	6860.52	133.82	23.72	1.000	10.05	-133.60	Hold: 12.50° Inc, 10.05° Azm
4	8121.60	12.50	10.05	8082.02	400.56	71.00	0.000	0.00	-399.88	Drop: 1°/100'
5	9372.02	0.00	0.00	9322.54	534.38	94.71	1.000	180.00	-533.48	KOP: 12°/100' @ 9372.02' MD
6	10122.02	90.00	179.47	9800.00	56.93	99.09	12.000	179.47	-56.02	LP: 10122.02' MD, 90.00° Inc, 179.47° Azm
7	17413.25	90.00	179.47	9800.00	-7233.99	165.90	0.000	0.00	7235.22	PBHL @ 17413.25' MD/9800.00' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
306H VP	9322.54	534.38	94.71	494247.21	829774.46	32° 21' 19.069 N	103° 23' 57.313 W
306H FTP	9800.00	484.34	95.22	494197.17	829774.97	32° 21' 18.574 N	103° 23' 57.312 W
306H LTP/PBHL	9800.00	-7233.99	165.90	486478.84	829845.65	32° 20' 2.199 N	103° 23' 57.273 W

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

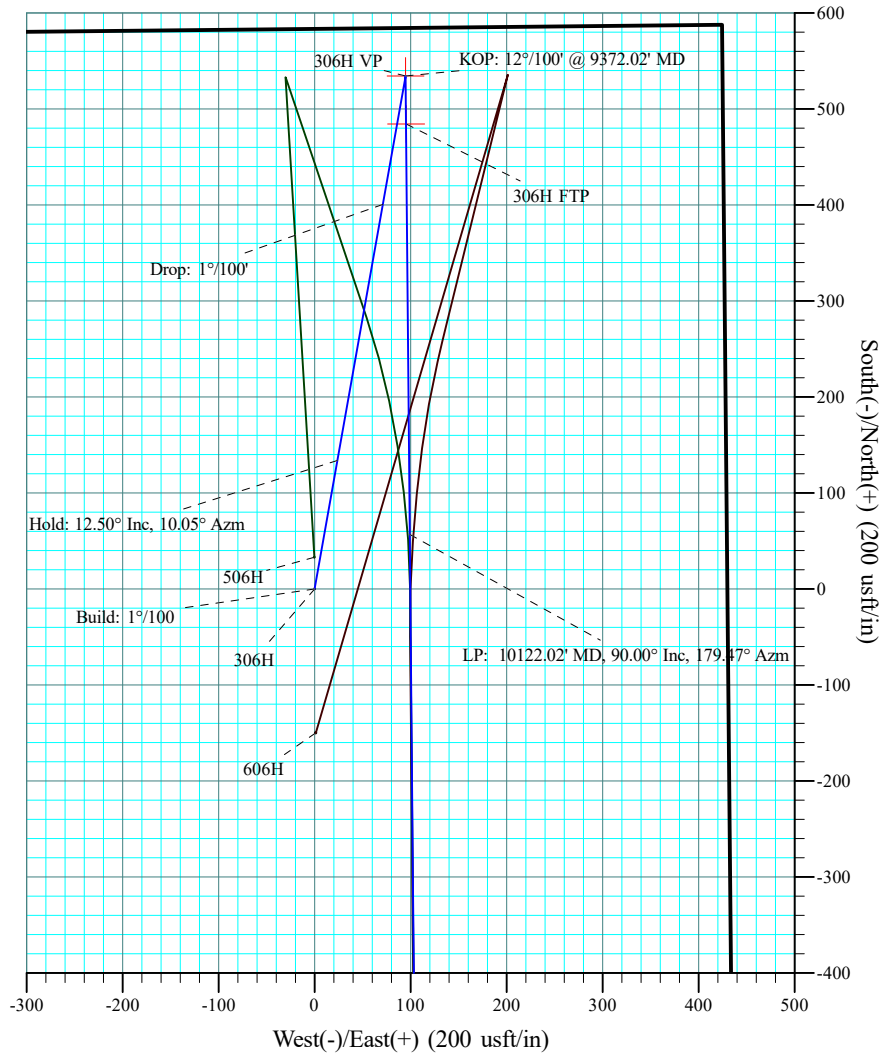
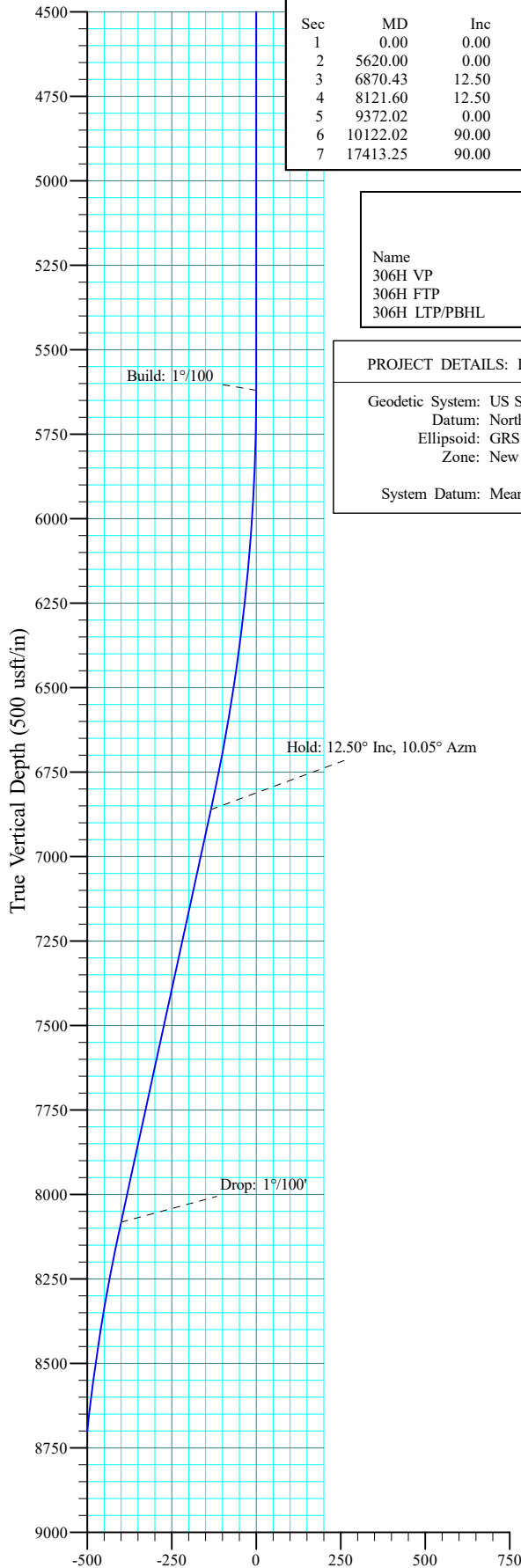


Azimuths to Grid North
 True North: -0.50°
 Magnetic North: 5.90°
 Magnetic Field
 Strength: 47716.0nT
 Dip Angle: 59.97°
 Date: 4/1/2022
 Model: MVHD

SITE DETAILS: Golden Tee 31 Fed Com 306H

Site Centre Northing: 493712.83
 Easting: 829679.75

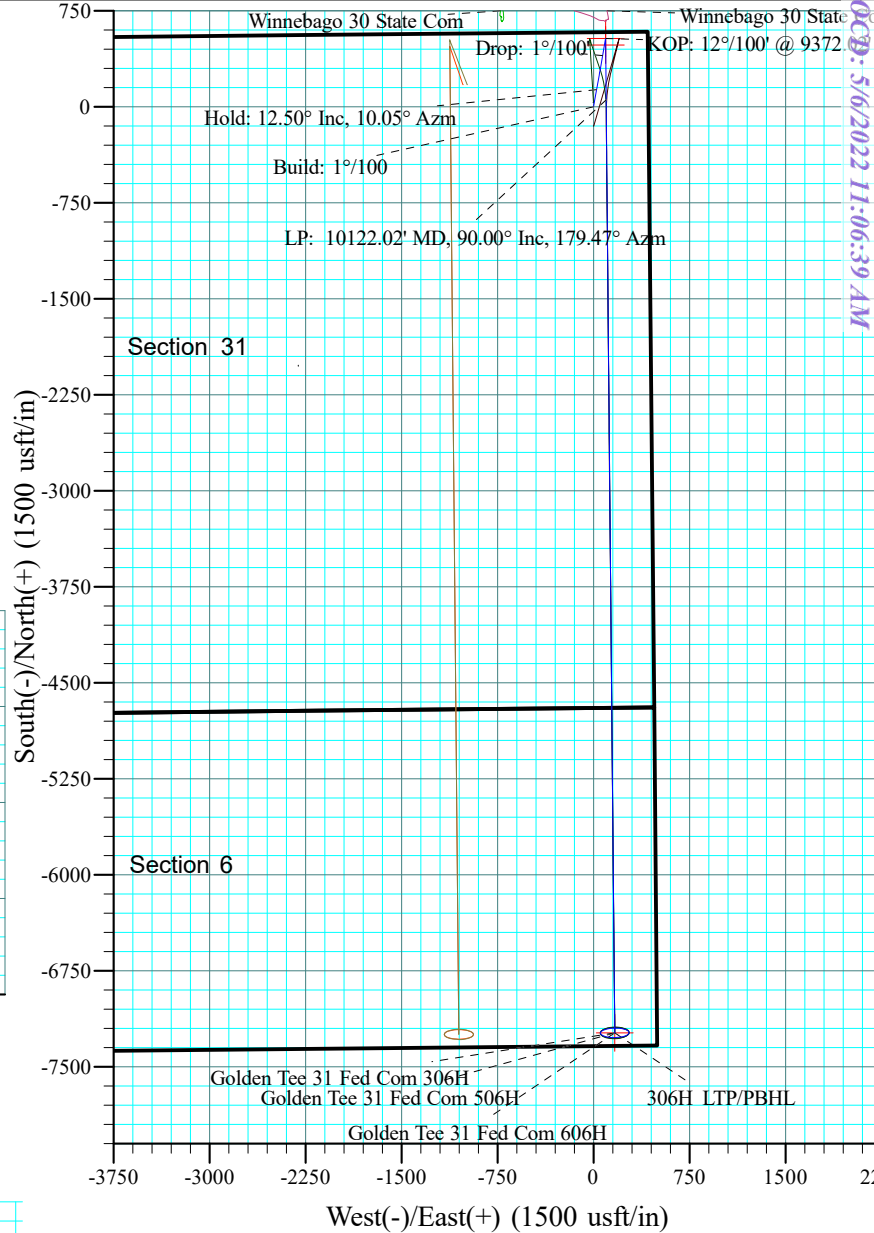
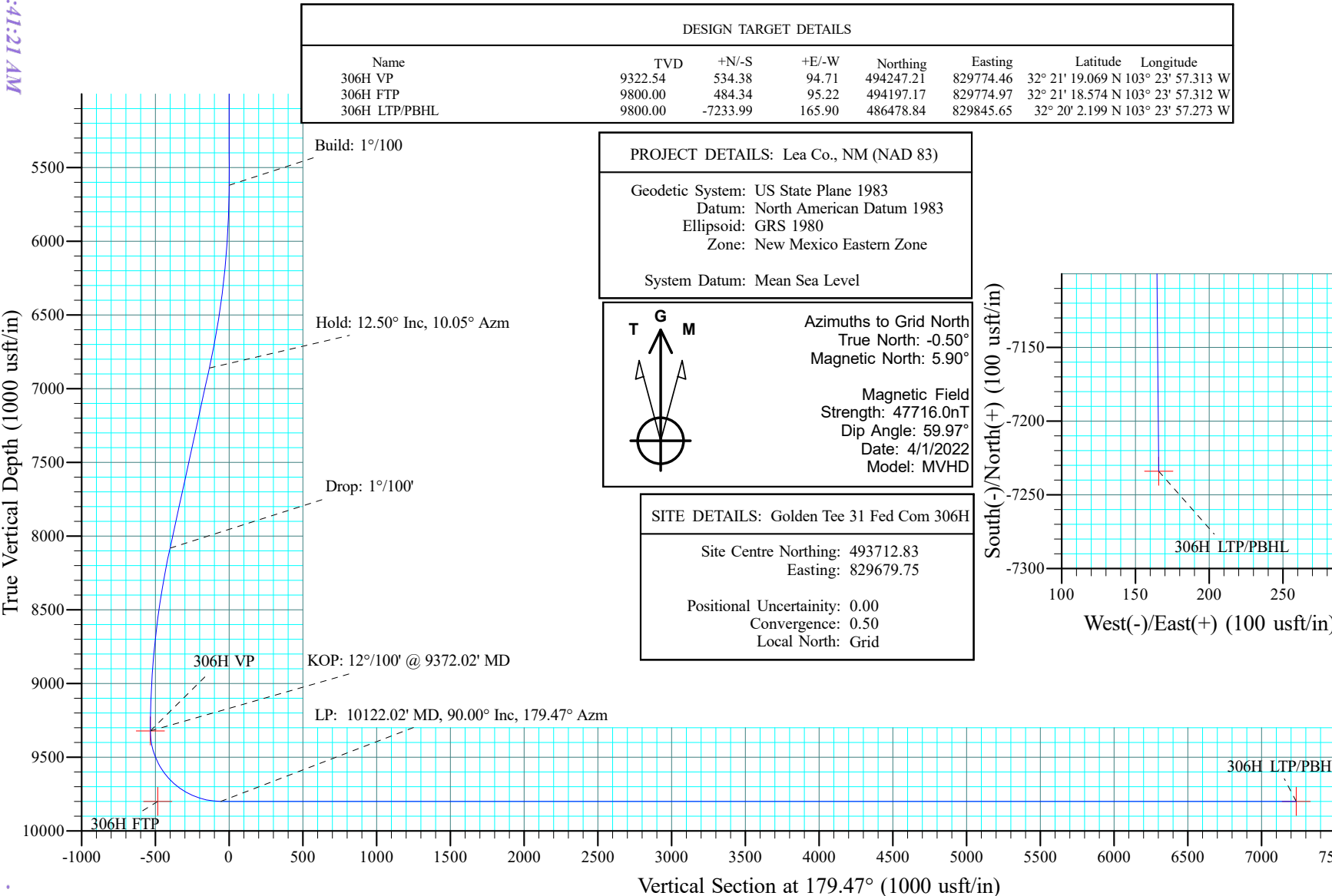
Positional Uncertainty: 0.00
 Convergence: 0.50
 Local North: Grid



Received for Imaging: 5/10/2022 10:41:21 AM

Received by: 5/6/2022 11:06:39 AM

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00		
2	5620.00	0.00	0.00	5620.00	0.00	0.00	0.000	0.00	0.00		Build: 1°/100
3	6870.43	12.50	10.05	6860.52	133.82	23.72	1.000	10.05	-133.60		Hold: 12.50° Inc, 10.05° Azm
4	8121.60	12.50	10.05	8082.02	400.56	71.00	0.000	0.00	-399.88		Drop: 1°/100'
5	9372.02	0.00	0.00	9322.54	534.38	94.71	1.000	180.00	-533.48	306H VP	KOP: 12°/100' @ 9372.02' MD
6	10122.02	90.00	179.47	9800.00	56.93	99.09	12.000	179.47	-56.02		LP: 10122.02' MD, 90.00° Inc, 179.47° Azm
7	17413.25	90.00	179.47	9800.00	-7233.99	165.90	0.000	0.00	7235.22	306H LTP/PBHL	PBHL @ 17413.25' MD/9800.00' TVD





Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 306H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3530.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3530.00usft
Site:	Golden Tee 31 Fed Com 306H	North Reference:	Grid
Well:	306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Project	Lea Co., NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Golden Tee 31 Fed Com 306H		
Site Position:		Northing:	493,712.83 usft
From:	Map	Easting:	829,679.75 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 21' 13.790 N
		Longitude:	103° 23' 58.471 W
		Grid Convergence:	0.50 °

Well	306H		
Well Position	+N/-S	0.00 usft	Northing: 493,712.83 usft
	+E/-W	0.00 usft	Easting: 829,679.75 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32° 21' 13.790 N
			Longitude: 103° 23' 58.471 W
			Ground Level: 3,505.00 usft

Wellbore	Planning				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	4/1/2022	6.40	59.97	47,715.952

Design	Plan 0.1			
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	179.47

Plan Survey Tool Program	Date	2/12/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,413.25	Plan 0.1 (Planning)	B001Mb_MWD+HRGM
				OWSG MWD + HRGM

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	
5,620.00	0.00	0.00	5,620.00	0.00	0.00	0.000	0.000	0.000	0.00	
6,870.43	12.50	10.05	6,860.52	133.82	23.72	1.000	1.000	0.000	10.05	
8,121.60	12.50	10.05	8,082.02	400.56	71.00	0.000	0.000	0.000	0.00	
9,372.02	0.00	0.00	9,322.54	534.38	94.71	1.000	-1.000	0.000	180.00	306H VP
10,122.02	90.00	179.47	9,800.00	56.93	99.09	12.000	12.000	23.930	179.47	
17,413.25	90.00	179.47	9,800.00	-7,233.99	165.90	0.000	0.000	0.000	0.00	306H LTP/PBHL



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 306H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3530.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3530.00usft
Site:	Golden Tee 31 Fed Com 306H	North Reference:	Grid
Well:	306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.000	0.000	0.000
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.000	0.000	0.000
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.000	0.000	0.000
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.000	0.000	0.000
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.000	0.000
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.000	0.000	0.000
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.000	0.000	0.000
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.000	0.000	0.000
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.000	0.000	0.000
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.000	0.000	0.000
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.000	0.000	0.000
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.000	0.000	0.000
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.000	0.000	0.000
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.000	0.000	0.000
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.000	0.000	0.000
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.000	0.000	0.000
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.000	0.000	0.000
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.000	0.000	0.000
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.000	0.000	0.000
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.000	0.000	0.000
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.000	0.000	0.000
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.000	0.000	0.000
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.000	0.000	0.000
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.000	0.000	0.000
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.000	0.000	0.000
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.000	0.000	0.000
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.000	0.000	0.000
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.000	0.000	0.000
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.000	0.000	0.000
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.000	0.000	0.000
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.000	0.000	0.000
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.000	0.000	0.000
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.000	0.000	0.000
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.000	0.000	0.000
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.000	0.000	0.000
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.000	0.000	0.000
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.000	0.000	0.000
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.000	0.000	0.000
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.000	0.000	0.000
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.000	0.000	0.000
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.000	0.000	0.000
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.000	0.000	0.000
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.000	0.000	0.000
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.000	0.000	0.000
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.000	0.000	0.000
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.000	0.000	0.000
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.000	0.000	0.000
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.000	0.000	0.000
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.000	0.000	0.000
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.000	0.000	0.000
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.000	0.000	0.000
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.000	0.000	0.000
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.000	0.000	0.000



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 306H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3530.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3530.00usft
Site:	Golden Tee 31 Fed Com 306H	North Reference:	Grid
Well:	306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.000	0.000	0.000
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.000	0.000	0.000
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.000	0.000	0.000
5,620.00	0.00	0.00	5,620.00	0.00	0.00	0.00	0.000	0.000	0.000
Build: 1°/100									
5,700.00	0.80	10.05	5,700.00	0.55	0.10	-0.55	1.000	1.000	0.000
5,800.00	1.80	10.05	5,799.97	2.78	0.49	-2.78	1.000	1.000	0.000
5,900.00	2.80	10.05	5,899.89	6.74	1.19	-6.72	1.000	1.000	0.000
6,000.00	3.80	10.05	5,999.72	12.40	2.20	-12.38	1.000	1.000	0.000
6,100.00	4.80	10.05	6,099.44	19.79	3.51	-19.75	1.000	1.000	0.000
6,200.00	5.80	10.05	6,199.01	28.88	5.12	-28.83	1.000	1.000	0.000
6,300.00	6.80	10.05	6,298.40	39.69	7.03	-39.62	1.000	1.000	0.000
6,400.00	7.80	10.05	6,397.59	52.20	9.25	-52.11	1.000	1.000	0.000
6,500.00	8.80	10.05	6,496.54	66.41	11.77	-66.30	1.000	1.000	0.000
6,600.00	9.80	10.05	6,595.23	82.32	14.59	-82.19	1.000	1.000	0.000
6,700.00	10.80	10.05	6,693.62	99.93	17.71	-99.76	1.000	1.000	0.000
6,800.00	11.80	10.05	6,791.68	119.22	21.13	-119.02	1.000	1.000	0.000
6,870.43	12.50	10.05	6,860.52	133.82	23.72	-133.60	1.000	1.000	0.000
Hold: 12.50° Inc, 10.05° Azm									
6,900.00	12.50	10.05	6,889.40	140.13	24.84	-139.89	0.000	0.000	0.000
7,000.00	12.50	10.05	6,987.02	161.44	28.61	-161.17	0.000	0.000	0.000
7,100.00	12.50	10.05	7,084.65	182.76	32.39	-182.46	0.000	0.000	0.000
7,200.00	12.50	10.05	7,182.28	204.08	36.17	-203.74	0.000	0.000	0.000
7,300.00	12.50	10.05	7,279.91	225.40	39.95	-225.02	0.000	0.000	0.000
7,400.00	12.50	10.05	7,377.54	246.72	43.73	-246.31	0.000	0.000	0.000
7,500.00	12.50	10.05	7,475.16	268.04	47.51	-267.59	0.000	0.000	0.000
7,600.00	12.50	10.05	7,572.79	289.36	51.29	-288.87	0.000	0.000	0.000
7,700.00	12.50	10.05	7,670.42	310.68	55.07	-310.15	0.000	0.000	0.000
7,800.00	12.50	10.05	7,768.05	332.00	58.84	-331.44	0.000	0.000	0.000
7,900.00	12.50	10.05	7,865.68	353.32	62.62	-352.72	0.000	0.000	0.000
8,000.00	12.50	10.05	7,963.30	374.63	66.40	-374.00	0.000	0.000	0.000
8,100.00	12.50	10.05	8,060.93	395.95	70.18	-395.29	0.000	0.000	0.000
8,121.60	12.50	10.05	8,082.02	400.56	71.00	-399.88	0.000	0.000	0.000
Drop: 1°/100'									
8,200.00	11.72	10.05	8,158.67	416.76	73.87	-416.06	1.000	-1.000	0.000
8,300.00	10.72	10.05	8,256.76	435.92	77.26	-435.18	1.000	-1.000	0.000
8,400.00	9.72	10.05	8,355.17	453.39	80.36	-452.62	1.000	-1.000	0.000
8,500.00	8.72	10.05	8,453.88	469.16	83.16	-468.37	1.000	-1.000	0.000
8,600.00	7.72	10.05	8,552.85	483.24	85.65	-482.43	1.000	-1.000	0.000
8,700.00	6.72	10.05	8,652.06	495.62	87.84	-494.78	1.000	-1.000	0.000
8,800.00	5.72	10.05	8,751.47	506.29	89.74	-505.43	1.000	-1.000	0.000
8,900.00	4.72	10.05	8,851.05	515.24	91.32	-514.38	1.000	-1.000	0.000
9,000.00	3.72	10.05	8,950.78	522.49	92.61	-521.61	1.000	-1.000	0.000
9,100.00	2.72	10.05	9,050.62	528.02	93.59	-527.13	1.000	-1.000	0.000
9,200.00	1.72	10.05	9,150.54	531.84	94.26	-530.94	1.000	-1.000	0.000
9,300.00	0.72	10.05	9,250.52	533.93	94.64	-533.03	1.000	-1.000	0.000
9,372.02	0.00	0.00	9,322.54	534.38	94.71	-533.48	1.000	-1.000	0.000
KOP: 12°/100' @ 9372.02' MD									
9,375.00	0.36	179.47	9,325.52	534.37	94.71	-533.47	12.000	12.000	0.000
9,400.00	3.36	179.47	9,350.50	533.56	94.72	-532.66	12.000	12.000	0.000
9,425.00	6.36	179.47	9,375.41	531.44	94.74	-530.54	12.000	12.000	0.000
9,450.00	9.36	179.47	9,400.17	528.03	94.77	-527.13	12.000	12.000	0.000
9,475.00	12.36	179.47	9,424.72	523.32	94.82	-522.42	12.000	12.000	0.000



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 306H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3530.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3530.00usft
Site:	Golden Tee 31 Fed Com 306H	North Reference:	Grid
Well:	306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,500.00	15.36	179.47	9,448.99	517.33	94.87	-516.43	12.000	12.000	0.000
9,525.00	18.36	179.47	9,472.91	510.08	94.94	-509.18	12.000	12.000	0.000
9,550.00	21.36	179.47	9,496.42	501.59	95.02	-500.69	12.000	12.000	0.000
9,575.00	24.36	179.47	9,519.46	491.88	95.10	-490.98	12.000	12.000	0.000
9,600.00	27.36	179.47	9,541.95	480.98	95.20	-480.08	12.000	12.000	0.000
9,625.00	30.36	179.47	9,563.85	468.92	95.31	-468.01	12.000	12.000	0.000
9,650.00	33.36	179.47	9,585.08	455.72	95.44	-454.82	12.000	12.000	0.000
9,675.00	36.36	179.47	9,605.59	441.44	95.57	-440.53	12.000	12.000	0.000
9,700.00	39.36	179.47	9,625.33	426.10	95.71	-425.19	12.000	12.000	0.000
9,725.00	42.36	179.47	9,644.23	409.75	95.86	-408.84	12.000	12.000	0.000
9,750.00	45.36	179.47	9,662.26	392.43	96.02	-391.52	12.000	12.000	0.000
9,775.00	48.36	179.47	9,679.35	374.19	96.18	-373.28	12.000	12.000	0.000
9,800.00	51.36	179.47	9,695.47	355.08	96.36	-354.17	12.000	12.000	0.000
9,825.00	54.36	179.47	9,710.56	335.15	96.54	-334.25	12.000	12.000	0.000
9,850.00	57.36	179.47	9,724.59	314.47	96.73	-313.56	12.000	12.000	0.000
9,875.00	60.36	179.47	9,737.52	293.07	96.93	-292.16	12.000	12.000	0.000
9,900.00	63.36	179.47	9,749.31	271.03	97.13	-270.12	12.000	12.000	0.000
9,925.00	66.36	179.47	9,759.93	248.40	97.34	-247.49	12.000	12.000	0.000
9,950.00	69.36	179.47	9,769.35	225.25	97.55	-224.34	12.000	12.000	0.000
9,975.00	72.36	179.47	9,777.55	201.64	97.76	-200.72	12.000	12.000	0.000
10,000.00	75.36	179.47	9,784.50	177.63	97.98	-176.71	12.000	12.000	0.000
10,025.00	78.36	179.47	9,790.18	153.29	98.21	-152.37	12.000	12.000	0.000
10,050.00	81.36	179.47	9,794.58	128.68	98.43	-127.76	12.000	12.000	0.000
10,075.00	84.36	179.47	9,797.69	103.88	98.66	-102.96	12.000	12.000	0.000
10,100.00	87.36	179.47	9,799.50	78.95	98.89	-78.03	12.000	12.000	0.000
10,122.02	90.00	179.47	9,800.00	56.93	99.09	-56.02	12.000	12.000	0.000
LP: 10122.02' MD, 90.00° Inc, 179.47° Azm									
10,200.00	90.00	179.47	9,800.00	-21.04	99.80	21.96	0.000	0.000	0.000
10,300.00	90.00	179.47	9,800.00	-121.04	100.72	121.96	0.000	0.000	0.000
10,400.00	90.00	179.47	9,800.00	-221.03	101.64	221.96	0.000	0.000	0.000
10,500.00	90.00	179.47	9,800.00	-321.03	102.55	321.96	0.000	0.000	0.000
10,600.00	90.00	179.47	9,800.00	-421.02	103.47	421.96	0.000	0.000	0.000
10,700.00	90.00	179.47	9,800.00	-521.02	104.39	521.96	0.000	0.000	0.000
10,800.00	90.00	179.47	9,800.00	-621.02	105.30	621.96	0.000	0.000	0.000
10,900.00	90.00	179.47	9,800.00	-721.01	106.22	721.96	0.000	0.000	0.000
11,000.00	90.00	179.47	9,800.00	-821.01	107.13	821.96	0.000	0.000	0.000
11,100.00	90.00	179.47	9,800.00	-921.00	108.05	921.96	0.000	0.000	0.000
11,200.00	90.00	179.47	9,800.00	-1,021.00	108.97	1,021.96	0.000	0.000	0.000
11,300.00	90.00	179.47	9,800.00	-1,120.99	109.88	1,121.96	0.000	0.000	0.000
11,400.00	90.00	179.47	9,800.00	-1,220.99	110.80	1,221.96	0.000	0.000	0.000
11,500.00	90.00	179.47	9,800.00	-1,320.99	111.72	1,321.96	0.000	0.000	0.000
11,600.00	90.00	179.47	9,800.00	-1,420.98	112.63	1,421.96	0.000	0.000	0.000
11,700.00	90.00	179.47	9,800.00	-1,520.98	113.55	1,521.96	0.000	0.000	0.000
11,800.00	90.00	179.47	9,800.00	-1,620.97	114.47	1,621.96	0.000	0.000	0.000
11,900.00	90.00	179.47	9,800.00	-1,720.97	115.38	1,721.96	0.000	0.000	0.000
12,000.00	90.00	179.47	9,800.00	-1,820.97	116.30	1,821.96	0.000	0.000	0.000
12,100.00	90.00	179.47	9,800.00	-1,920.96	117.21	1,921.96	0.000	0.000	0.000
12,200.00	90.00	179.47	9,800.00	-2,020.96	118.13	2,021.96	0.000	0.000	0.000
12,300.00	90.00	179.47	9,800.00	-2,120.95	119.05	2,121.96	0.000	0.000	0.000
12,400.00	90.00	179.47	9,800.00	-2,220.95	119.96	2,221.96	0.000	0.000	0.000
12,500.00	90.00	179.47	9,800.00	-2,320.94	120.88	2,321.96	0.000	0.000	0.000
12,600.00	90.00	179.47	9,800.00	-2,420.94	121.80	2,421.96	0.000	0.000	0.000
12,700.00	90.00	179.47	9,800.00	-2,520.94	122.71	2,521.96	0.000	0.000	0.000



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 306H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3530.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3530.00usft
Site:	Golden Tee 31 Fed Com 306H	North Reference:	Grid
Well:	306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,800.00	90.00	179.47	9,800.00	-2,620.93	123.63	2,621.96	0.000	0.000	0.000
12,900.00	90.00	179.47	9,800.00	-2,720.93	124.54	2,721.96	0.000	0.000	0.000
13,000.00	90.00	179.47	9,800.00	-2,820.92	125.46	2,821.96	0.000	0.000	0.000
13,100.00	90.00	179.47	9,800.00	-2,920.92	126.38	2,921.96	0.000	0.000	0.000
13,200.00	90.00	179.47	9,800.00	-3,020.91	127.29	3,021.96	0.000	0.000	0.000
13,300.00	90.00	179.47	9,800.00	-3,120.91	128.21	3,121.96	0.000	0.000	0.000
13,400.00	90.00	179.47	9,800.00	-3,220.91	129.13	3,221.96	0.000	0.000	0.000
13,500.00	90.00	179.47	9,800.00	-3,320.90	130.04	3,321.96	0.000	0.000	0.000
13,600.00	90.00	179.47	9,800.00	-3,420.90	130.96	3,421.96	0.000	0.000	0.000
13,700.00	90.00	179.47	9,800.00	-3,520.89	131.88	3,521.96	0.000	0.000	0.000
13,800.00	90.00	179.47	9,800.00	-3,620.89	132.79	3,621.96	0.000	0.000	0.000
13,900.00	90.00	179.47	9,800.00	-3,720.89	133.71	3,721.96	0.000	0.000	0.000
14,000.00	90.00	179.47	9,800.00	-3,820.88	134.62	3,821.96	0.000	0.000	0.000
14,100.00	90.00	179.47	9,800.00	-3,920.88	135.54	3,921.96	0.000	0.000	0.000
14,200.00	90.00	179.47	9,800.00	-4,020.87	136.46	4,021.96	0.000	0.000	0.000
14,300.00	90.00	179.47	9,800.00	-4,120.87	137.37	4,121.96	0.000	0.000	0.000
14,400.00	90.00	179.47	9,800.00	-4,220.86	138.29	4,221.96	0.000	0.000	0.000
14,500.00	90.00	179.47	9,800.00	-4,320.86	139.21	4,321.96	0.000	0.000	0.000
14,600.00	90.00	179.47	9,800.00	-4,420.86	140.12	4,421.96	0.000	0.000	0.000
14,700.00	90.00	179.47	9,800.00	-4,520.85	141.04	4,521.96	0.000	0.000	0.000
14,800.00	90.00	179.47	9,800.00	-4,620.85	141.95	4,621.96	0.000	0.000	0.000
14,900.00	90.00	179.47	9,800.00	-4,720.84	142.87	4,721.96	0.000	0.000	0.000
15,000.00	90.00	179.47	9,800.00	-4,820.84	143.79	4,821.96	0.000	0.000	0.000
15,100.00	90.00	179.47	9,800.00	-4,920.84	144.70	4,921.96	0.000	0.000	0.000
15,200.00	90.00	179.47	9,800.00	-5,020.83	145.62	5,021.96	0.000	0.000	0.000
15,300.00	90.00	179.47	9,800.00	-5,120.83	146.54	5,121.96	0.000	0.000	0.000
15,400.00	90.00	179.47	9,800.00	-5,220.82	147.45	5,221.96	0.000	0.000	0.000
15,500.00	90.00	179.47	9,800.00	-5,320.82	148.37	5,321.96	0.000	0.000	0.000
15,600.00	90.00	179.47	9,800.00	-5,420.81	149.29	5,421.96	0.000	0.000	0.000
15,700.00	90.00	179.47	9,800.00	-5,520.81	150.20	5,521.96	0.000	0.000	0.000
15,800.00	90.00	179.47	9,800.00	-5,620.81	151.12	5,621.96	0.000	0.000	0.000
15,900.00	90.00	179.47	9,800.00	-5,720.80	152.03	5,721.96	0.000	0.000	0.000
16,000.00	90.00	179.47	9,800.00	-5,820.80	152.95	5,821.96	0.000	0.000	0.000
16,100.00	90.00	179.47	9,800.00	-5,920.79	153.87	5,921.96	0.000	0.000	0.000
16,200.00	90.00	179.47	9,800.00	-6,020.79	154.78	6,021.96	0.000	0.000	0.000
16,300.00	90.00	179.47	9,800.00	-6,120.78	155.70	6,121.96	0.000	0.000	0.000
16,400.00	90.00	179.47	9,800.00	-6,220.78	156.62	6,221.96	0.000	0.000	0.000
16,500.00	90.00	179.47	9,800.00	-6,320.78	157.53	6,321.96	0.000	0.000	0.000
16,600.00	90.00	179.47	9,800.00	-6,420.77	158.45	6,421.96	0.000	0.000	0.000
16,700.00	90.00	179.47	9,800.00	-6,520.77	159.36	6,521.96	0.000	0.000	0.000
16,800.00	90.00	179.47	9,800.00	-6,620.76	160.28	6,621.96	0.000	0.000	0.000
16,900.00	90.00	179.47	9,800.00	-6,720.76	161.20	6,721.96	0.000	0.000	0.000
17,000.00	90.00	179.47	9,800.00	-6,820.76	162.11	6,821.96	0.000	0.000	0.000
17,100.00	90.00	179.47	9,800.00	-6,920.75	163.03	6,921.96	0.000	0.000	0.000
17,200.00	90.00	179.47	9,800.00	-7,020.75	163.95	7,021.96	0.000	0.000	0.000
17,300.00	90.00	179.47	9,800.00	-7,120.74	164.86	7,121.96	0.000	0.000	0.000
17,400.00	90.00	179.47	9,800.00	-7,220.74	165.78	7,221.96	0.000	0.000	0.000
17,413.25	90.00	179.47	9,800.00	-7,233.99	165.90	7,235.22	0.000	0.000	0.000
PBHL @ 17413.25' MD/9800.00' TVD									



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 306H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3530.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3530.00usft
Site:	Golden Tee 31 Fed Com 306H	North Reference:	Grid
Well:	306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
17,413.25	9,800.00	20" Casing	20	24

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,620.00	5,620.00	0.00	0.00	Build: 1°/100
6,870.43	6,860.52	133.82	23.72	Hold: 12.50° Inc, 10.05° Azm
8,121.60	8,082.02	400.56	71.00	Drop: 1°/100'
9,372.02	9,322.54	534.38	94.71	KOP: 12°/100' @ 9372.02' MD
10,122.02	9,800.00	56.93	99.09	LP: 10122.02' MD, 90.00° Inc, 179.47° Azm
17,413.25	9,800.00	-7,233.99	165.90	PBHL @ 17413.25' MD/9800.00' TVD

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 104953

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 104953
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/10/2022