

Well Name: GOLDEN TEE 31 FED COM	Well Location: T22S / R35E / SEC 31 / NENE /	County or Parish/State:
Well Number: 504H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM128836	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549406	Well Status: Approved Application for Permit to Drill	Operator: AVANT OPERATING LLC

Notice of Intent

Sundry ID: 2663053

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 03/21/2022

Time Sundry Submitted: 10:14

Date proposed operation will begin: 03/28/2022

Procedure Description: Request to move SHL from 550' FNL & 400' FEL (Pad 2) to 400' FNL & 1481' FEL (Pad 4). Request to move BHL 588' west from 2540' FNL & 2178' FEL to 2540' FNL & 2514' FWL. TVD will not change. MD will change from 18235' to 18280'. Cement volume will change accordingly. Pad 4 will now host 6 wells instead of previous 3. Pad dimensions will change from 300' x 360' (= 2.48 ac.) to 285' x 550' (3.60 ac.). Will stockpile topsoil on south. Will interim reclaim south 60' of pad (60' x 550' = 0.76 ac.).

Surface Disturbance

Is any additional surface disturbance proposed?: Yes

Proposed Disturbance(acres): 3.6

Interim Reclamation (acres): 0.76

Long Term Disturbance (acres): 2.84

Surface Disturbance:

NOI Attachments

Procedure Description

Pad_Plant_20220321101239.pdf

AC_Report_20220321101222.pdf

Well_Bore_20220321101203.pdf

Well Name: GOLDEN TEE 31 FED
COM**Well Location:** T22S / R35E / SEC 31 /
NENE /**County or Parish/State:****Well Number:** 504H**Type of Well:** OIL WELL**Allottee or Tribe Name:****Lease Number:** NMNM128836**Unit or CA Name:****Unit or CA Number:****US Well Number:** 3002549406**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 26, 2022 12:28 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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

Revised August 1, 2011

Submit one copy to appropriate
District Office

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) 478-3460 Fax: (505) 478-3462

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49406	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 504H
⁷ GRID No. 330396	⁸ Operator Name Avant Operating, LLC	⁹ Elevation 3474

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
B	31	22 S	35 E		400	North	1481	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
F	6	23 S	35 E		2540	North	2514	West	Lea

¹² Dedicated Acres 240.09	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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SURFACE LOCATION
NAD 83 NMSPC ZONE 3001
Y= 493885.49 N
X= 828626.97 E
LAT.= 32.3543303° N
LONG.= 103.4029793° W

FIRST TAKE POINT
NAD 83 NMSPC ZONE 3001
100' FNL, 2514' FWL
SEC. 31, T22S, R35E
Y= 494172.94 N
X= 827371.13 E
LAT.= 32.3551503° N
LONG.= 103.4070377° W

LAST TAKE POINT
NAD 83 NMSPC ZONE 3001
2540' FNL, 2514' FWL
SEC. 6, T23S, R35E
Y= 486454.28 N
X= 827424.87 E
LAT.= 32.3339343° N
LONG.= 103.4070799° W

BOTTOM HOLE LOCATION
NAD 83 NMSPC ZONE 3001
Y= 486454.28 N
X= 827424.87 E
LAT.= 32.3339343° N
LONG.= 103.4070799° 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 **3-19-22**

Signature **BRIAN WOOD** Date

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 of Professional Surveyor

MARSHALL W. LINDEEN
17078
2-4-22
PROFESSIONAL SURVEYOR

17078

Certificate Number



Avant Operating, LLC

**Lea Co., NM (NAD 83)
Golden Tee 31 Fed Com 504H
504H**

**Planning
Plan 0.1**

Anticollision Report

09 February, 2022





Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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	2/9/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	18,280.05	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 304H						
304H - Planning - Plan 0.1	5,620.00	5,620.00	33.04	-6.80	0.829	Level 1, CC
304H - Planning - Plan 0.1	9,625.11	9,643.16	56.62	-18.71	0.752	Level 1, ES, SF
Golden Tee 31 Fed Com 305H						
305H - Planning - Plan 0.1	5,620.00	5,620.00	32.93	-6.91	0.827	Level 1, CC, ES, SF
Golden Tee 31 Fed Com 505H						
505H - Planning - Plan 0.1	5,620.00	5,620.00	65.97	26.13	1.656	CC, ES
505H - Planning - Plan 0.1	5,700.00	5,700.32	66.57	26.16	1.647	SF
Winnebago 30 State Com						
303H - OH - AC Plan	9,435.70	9,383.94	170.19	100.38	2.438	CC, ES, SF
504H - OH / 65921 - Surveys (H&P 618)	10,097.47	9,847.00	263.61	194.98	3.841	CC, ES
504H - OH / 65921 - Surveys (H&P 618)	10,100.00	9,847.00	263.62	194.98	3.841	SF
505H - OH / 68126 - Surveys (H&P 296)	7,805.70	7,769.28	363.29	307.92	6.561	CC
505H - OH / 68126 - Surveys (H&P 296)	7,834.82	7,793.95	363.62	307.78	6.512	ES
505H - OH / 68126 - Surveys (H&P 296)	7,969.34	7,907.00	373.73	315.56	6.424	SF

Offset Design Golden Tee 31 Fed Com 304H - 304H - 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	-90.59	-0.34	-33.04	33.04					
100.00	100.00	100.00	100.00	0.13	0.13	-90.59	-0.34	-33.04	33.04	32.77	0.27	122.898		
200.00	200.00	200.00	200.00	0.49	0.49	-90.59	-0.34	-33.04	33.04	32.06	0.99	33.518		
300.00	300.00	300.00	300.00	0.85	0.85	-90.59	-0.34	-33.04	33.04	31.34	1.70	19.405		
400.00	400.00	400.00	400.00	1.21	1.21	-90.59	-0.34	-33.04	33.04	30.62	2.42	13.655		
500.00	500.00	500.00	500.00	1.57	1.57	-90.59	-0.34	-33.04	33.04	29.91	3.14	10.534		
600.00	600.00	600.00	600.00	1.93	1.93	-90.59	-0.34	-33.04	33.04	29.19	3.85	8.574		
700.00	700.00	700.00	700.00	2.29	2.29	-90.59	-0.34	-33.04	33.04	28.47	4.57	7.229		
800.00	800.00	800.00	800.00	2.64	2.64	-90.59	-0.34	-33.04	33.04	27.75	5.29	6.249		
900.00	900.00	900.00	900.00	3.00	3.00	-90.59	-0.34	-33.04	33.04	27.04	6.00	5.503		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.59	-0.34	-33.04	33.04	26.32	6.72	4.916		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.59	-0.34	-33.04	33.04	25.60	7.44	4.442		

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 504H
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Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
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Reference Well:	504H	Survey Calculation Method:	Minimum Curvature
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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 304H - 304H - 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		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-90.59	-0.34	-33.04	33.04	24.89	8.16	4.052		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.59	-0.34	-33.04	33.04	24.17	8.87	3.724		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.59	-0.34	-33.04	33.04	23.45	9.59	3.446		
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	-90.59	-0.34	-33.04	33.04	22.74	10.31	3.206		
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	-90.59	-0.34	-33.04	33.04	22.02	11.02	2.998		
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	-90.59	-0.34	-33.04	33.04	21.30	11.74	2.814		
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	-90.59	-0.34	-33.04	33.04	20.58	12.46	2.652		
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	-90.59	-0.34	-33.04	33.04	19.87	13.17	2.508		
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	-90.59	-0.34	-33.04	33.04	19.15	13.89	2.379		
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	-90.59	-0.34	-33.04	33.04	18.43	14.61	2.262		
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	-90.59	-0.34	-33.04	33.04	17.72	15.32	2.156		
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	-90.59	-0.34	-33.04	33.04	17.00	16.04	2.060		
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	-90.59	-0.34	-33.04	33.04	16.28	16.76	1.972		
2,500.00	2,500.00	2,500.00	2,500.00	8.74	8.74	-90.59	-0.34	-33.04	33.04	15.57	17.48	1.891		
2,600.00	2,600.00	2,600.00	2,600.00	9.10	9.10	-90.59	-0.34	-33.04	33.04	14.85	18.19	1.816		
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	-90.59	-0.34	-33.04	33.04	14.13	18.91	1.747		
2,800.00	2,800.00	2,800.00	2,800.00	9.81	9.81	-90.59	-0.34	-33.04	33.04	13.42	19.63	1.684		
2,900.00	2,900.00	2,900.00	2,900.00	10.17	10.17	-90.59	-0.34	-33.04	33.04	12.70	20.34	1.624		
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	-90.59	-0.34	-33.04	33.04	11.98	21.06	1.569		
3,100.00	3,100.00	3,100.00	3,100.00	10.89	10.89	-90.59	-0.34	-33.04	33.04	11.26	21.78	1.517		
3,200.00	3,200.00	3,200.00	3,200.00	11.25	11.25	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	33.04	4.10	28.95	1.141 Level 2		
4,200.00	4,200.00	4,200.00	4,200.00	14.83	14.83	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	33.04	-3.07	36.12	0.915 Level 1		
5,200.00	5,200.00	5,200.00	5,200.00	18.42	18.42	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	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	-90.59	-0.34	-33.04	33.04	-6.80	39.84	0.829 Level 1, CC		
5,700.00	5,699.99	5,699.16	5,699.15	20.20	20.20	-15.58	-0.10	-34.05	33.26	-7.13	40.39	0.823 Level 1		
5,800.00	5,799.94	5,798.09	5,797.99	20.55	20.54	-15.38	0.86	-38.13	34.16	-6.87	41.03	0.833 Level 1		
5,900.00	5,899.76	5,896.97	5,896.58	20.90	20.89	-15.07	2.56	-45.35	35.76	-5.88	41.64	0.859 Level 1		
6,000.00	5,999.40	5,995.77	5,994.81	21.24	21.23	-14.66	4.99	-55.69	38.04	-4.17	42.21	0.901 Level 1		
6,100.00	6,098.78	6,094.47	6,092.54	21.59	21.58	-14.20	8.15	-69.12	41.01	-1.73	42.74	0.959 Level 1		
6,200.00	6,197.85	6,193.04	6,189.64	21.95	21.92	-13.72	12.03	-85.62	44.67	1.43	43.24	1.033 Level 2		

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



Aim Directional Services, LLC

Anticollision Report



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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 304H - 304H - 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		
6,300.00	6,296.54	6,291.46	6,285.98	22.30	22.27	-13.24	16.63	-105.15	49.01	5.32	43.69	1.122	Level 2	
6,400.00	6,394.78	6,389.70	6,381.45	22.66	22.63	-12.78	21.93	-127.67	54.03	9.92	44.11	1.225	Level 2	
6,500.00	6,492.50	6,487.73	6,475.92	23.02	22.99	-12.35	27.92	-153.13	59.72	15.23	44.49	1.342	Level 3	
6,600.00	6,589.65	6,585.53	6,569.28	23.39	23.36	-11.96	34.60	-181.49	66.07	21.24	44.84	1.474	Level 3	
6,700.00	6,686.16	6,683.08	6,661.42	23.76	23.74	-11.61	41.94	-212.67	73.08	27.94	45.14	1.619		
6,800.00	6,781.96	6,780.36	6,752.22	24.14	24.13	-11.29	49.93	-246.63	80.74	35.32	45.42	1.778		
6,900.00	6,876.99	6,877.33	6,841.58	24.53	24.53	-11.00	58.56	-283.29	89.03	43.38	45.66	1.950		
7,000.00	6,971.19	6,973.99	6,929.40	24.93	24.95	-10.75	67.80	-322.58	97.95	52.09	45.86	2.136		
7,100.00	7,064.49	7,070.31	7,015.59	25.35	25.39	-10.52	77.65	-364.42	107.49	61.45	46.04	2.335		
7,200.00	7,156.84	7,166.28	7,100.06	25.78	25.85	-10.32	88.08	-408.74	117.62	71.44	46.19	2.547		
7,300.00	7,248.17	7,261.87	7,182.73	26.23	26.34	-10.14	99.08	-455.45	128.35	82.04	46.31	2.772		
7,400.00	7,338.43	7,357.06	7,263.51	26.69	26.86	-9.98	110.61	-504.47	139.65	93.25	46.40	3.010		
7,500.00	7,427.55	7,451.85	7,342.34	27.18	27.40	-9.83	122.67	-555.71	151.52	105.05	46.47	3.260		
7,600.00	7,515.47	7,549.24	7,421.91	27.70	27.99	-9.72	135.54	-610.37	163.39	116.46	46.93	3.482		
7,700.00	7,602.13	7,648.78	7,503.10	28.24	28.63	-9.76	148.73	-666.42	172.98	125.32	47.66	3.629		
7,800.00	7,687.49	7,749.69	7,585.45	28.80	29.30	-9.95	162.09	-723.19	179.99	131.44	48.55	3.707		
7,834.82	7,716.89	7,786.66	7,615.88	29.01	29.55	-10.07	166.90	-743.64	181.42	132.35	49.07	3.697		
7,900.00	7,771.77	7,855.93	7,673.56	29.40	30.01	-10.38	175.69	-780.97	182.69	132.65	50.04	3.651		
7,969.34	7,830.15	7,929.65	7,735.89	29.83	30.51	-10.79	184.70	-819.27	182.43	131.37	51.06	3.573		
8,000.00	7,856.03	7,962.23	7,763.74	30.02	30.73	-10.99	188.58	-835.73	181.90	130.39	51.51	3.531		
8,100.00	7,941.33	8,068.43	7,855.76	30.65	31.43	-11.67	200.72	-887.33	179.60	126.65	52.95	3.392		
8,200.00	8,027.94	8,174.48	7,949.44	31.27	32.12	-12.41	212.10	-935.70	176.40	122.05	54.35	3.246		
8,300.00	8,115.81	8,280.35	8,044.64	31.90	32.79	-13.21	222.71	-980.77	172.30	116.59	55.72	3.093		
8,400.00	8,204.88	8,385.98	8,141.18	32.51	33.43	-14.09	232.53	-1,022.50	167.33	110.29	57.04	2.934		
8,500.00	8,295.09	8,491.35	8,238.91	33.12	34.04	-15.07	241.55	-1,060.82	161.50	103.18	58.32	2.769		
8,600.00	8,386.38	8,596.41	8,337.65	33.72	34.63	-16.17	249.77	-1,095.73	154.83	95.27	59.56	2.600		
8,700.00	8,478.68	8,701.12	8,437.25	34.30	35.19	-17.44	257.17	-1,127.18	147.34	86.58	60.76	2.425		
8,800.00	8,571.95	8,805.44	8,537.53	34.86	35.71	-18.92	263.75	-1,155.16	139.07	77.14	61.93	2.246		
8,900.00	8,666.11	8,909.34	8,638.32	35.41	36.21	-20.67	269.53	-1,179.68	130.06	66.99	63.08	2.062		
9,000.00	8,761.11	9,012.79	8,739.48	35.94	36.67	-22.79	274.48	-1,200.73	120.37	56.15	64.22	1.874		
9,100.00	8,856.88	9,115.75	8,840.84	36.45	37.11	-25.40	278.62	-1,218.34	110.08	44.69	65.39	1.683		
9,200.00	8,953.36	9,218.20	8,942.23	36.94	37.51	-28.71	281.96	-1,232.52	99.29	32.67	66.63	1.490	Level 3	
9,300.00	9,050.48	9,320.10	9,043.53	37.41	37.89	-33.02	284.50	-1,243.31	88.18	20.18	68.01	1.297	Level 3	
9,400.00	9,148.19	9,421.43	9,144.56	37.87	38.25	-38.82	286.25	-1,250.75	77.03	7.38	69.66	1.106	Level 2	
9,500.00	9,246.41	9,522.16	9,245.20	38.30	38.58	-46.84	287.22	-1,254.88	66.32	-5.42	71.74	0.924	Level 1	
9,600.00	9,345.08	9,620.36	9,343.38	38.72	38.88	-58.18	286.99	-1,255.84	57.26	-17.24	74.50	0.769	Level 1	
9,625.11	9,369.91	9,643.16	9,366.13	38.81	38.94	-62.18	285.46	-1,255.83	56.62	-18.71	75.33	0.752	Level 1, ES, SF	
9,700.00	9,444.13	9,709.29	9,431.36	39.11	39.11	-76.21	274.88	-1,255.75	63.03	-13.50	76.53	0.824	Level 1	
9,800.00	9,543.50	9,790.56	9,508.54	39.49	39.29	-90.71	249.73	-1,255.58	91.57	17.62	73.95	1.238	Level 2	
9,900.00	9,643.13	9,861.38	9,571.48	39.85	39.43	-98.08	217.42	-1,255.35	137.78	68.13	69.65	1.978		
10,000.00	9,742.95	9,921.32	9,620.54	40.19	39.52	-101.78	183.04	-1,255.11	196.18	130.76	65.42	2.999		
10,100.00	9,842.89	9,975.00	9,660.51	40.51	39.59	-104.06	147.26	-1,254.86	263.33	201.11	62.22	4.232		
10,184.16	9,927.04	10,006.95	9,682.30	40.78	39.62	-179.56	123.91	-1,254.70	324.81	265.86	58.95	5.510		
10,200.00	9,942.88	10,013.16	9,686.35	40.82	39.62	-0.04	119.20	-1,254.67	336.66	278.19	58.47	5.758		
10,250.00	9,992.73	10,032.81	9,698.77	40.96	39.64	-0.03	103.97	-1,254.56	373.07	316.12	56.95	6.551		
10,300.00	10,042.09	10,050.00	9,709.11	41.09	39.65	-0.03	90.24	-1,254.47	407.87	352.73	55.15	7.396		
10,350.00	10,090.57	10,075.00	9,723.24	41.21	39.66	-0.03	69.62	-1,254.32	440.98	386.86	54.13	8.147		
10,400.00	10,137.81	10,092.28	9,732.38	41.32	39.67	-0.02	54.95	-1,254.22	472.33	419.98	52.35	9.022		
10,450.00	10,183.44	10,112.24	9,742.25	41.42	39.68	-0.02	37.61	-1,254.10	501.89	451.03	50.86	9.868		
10,500.00	10,227.12	10,132.24	9,751.42	41.51	39.68	-0.02	19.83	-1,253.98	529.59	480.18	49.41	10.719		
10,550.00	10,268.52	10,150.00	9,758.93	41.59	39.68	-0.02	3.74	-1,253.86	555.39	507.52	47.86	11.604		
10,600.00	10,307.32	10,175.00	9,768.47	41.66	39.69	-0.02	-19.36	-1,253.70	579.21	532.34	46.87	12.357		

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

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COMPASS 5000.15 Build 93A



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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 304H - 304H - 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	
10,650.00	10,343.23	10,192.49	9,774.42	41.71	39.69	-0.02	-35.81	-1,253.59	601.01	555.51	45.50	13.209	
10,700.00	10,375.96	10,212.64	9,780.52	41.75	39.68	-0.01	-55.00	-1,253.46	620.77	576.36	44.41	13.979	
10,750.00	10,405.28	10,232.81	9,785.81	41.78	39.68	-0.01	-74.46	-1,253.32	638.45	594.99	43.46	14.691	
10,800.00	10,430.96	10,250.00	9,789.67	41.80	39.68	-0.01	-91.22	-1,253.20	654.01	611.45	42.57	15.364	
10,850.00	10,452.81	10,275.00	9,794.20	41.80	39.67	-0.01	-115.80	-1,253.03	667.40	625.30	42.11	15.850	
10,900.00	10,470.65	10,300.00	9,797.44	41.81	39.67	-0.01	-140.59	-1,252.86	678.70	636.92	41.78	16.246	
10,950.00	10,484.36	10,313.64	9,798.66	41.80	39.66	-0.01	-154.17	-1,252.77	687.64	646.21	41.43	16.598	
11,000.00	10,493.83	10,333.87	9,799.75	41.79	39.66	-0.01	-174.37	-1,252.62	694.45	653.02	41.43	16.760	
11,050.00	10,498.98	10,360.86	9,800.00	41.78	39.65	-0.01	-201.36	-1,252.44	698.97	657.33	41.65	16.782	
11,084.16	10,500.00	10,395.00	9,800.00	41.77	39.65	-0.01	-235.49	-1,252.20	699.99	658.16	41.84	16.732	
11,100.00	10,500.00	10,410.84	9,800.00	41.77	39.64	-0.01	-251.33	-1,252.09	699.99	658.07	41.93	16.696	
11,200.00	10,500.00	10,510.84	9,800.00	41.76	39.64	-0.01	-351.33	-1,251.39	699.99	657.48	42.51	16.465	
11,300.00	10,500.00	10,610.84	9,800.00	41.78	39.66	-0.01	-451.33	-1,250.70	699.99	656.84	43.15	16.222	
11,400.00	10,500.00	10,710.84	9,800.00	41.82	39.71	-0.01	-551.33	-1,250.00	699.99	656.16	43.84	15.969	
11,500.00	10,500.00	10,810.84	9,800.00	41.91	39.79	-0.01	-651.32	-1,249.30	699.99	655.43	44.56	15.707	
11,600.00	10,500.00	10,910.84	9,800.00	42.04	39.92	-0.01	-751.32	-1,248.61	699.99	654.66	45.34	15.440	
11,700.00	10,500.00	11,010.84	9,800.00	42.23	40.10	-0.01	-851.32	-1,247.91	699.99	653.84	46.15	15.168	
11,800.00	10,500.00	11,110.84	9,800.00	42.50	40.35	-0.01	-951.32	-1,247.22	699.99	652.99	47.00	14.894	
11,900.00	10,500.00	11,210.84	9,800.00	42.85	40.68	-0.01	-1,051.31	-1,246.52	699.99	652.11	47.89	14.618	
12,000.00	10,500.00	11,310.84	9,800.00	43.28	41.10	-0.01	-1,151.31	-1,245.82	699.99	651.19	48.81	14.342	
12,100.00	10,500.00	11,410.84	9,800.00	43.79	41.60	-0.01	-1,251.31	-1,245.13	699.99	650.23	49.76	14.067	
12,200.00	10,500.00	11,510.84	9,800.00	44.36	42.17	-0.01	-1,351.31	-1,244.43	699.99	649.25	50.75	13.794	
12,300.00	10,500.00	11,610.84	9,800.00	45.00	42.81	-0.01	-1,451.31	-1,243.73	699.99	648.24	51.76	13.524	
12,400.00	10,500.00	11,710.84	9,800.00	45.68	43.51	-0.01	-1,551.30	-1,243.04	699.99	647.20	52.80	13.258	
12,500.00	10,500.00	11,810.84	9,800.00	46.41	44.25	-0.01	-1,651.30	-1,242.34	699.99	646.13	53.86	12.995	
12,600.00	10,500.00	11,910.84	9,800.00	47.18	45.05	-0.01	-1,751.30	-1,241.65	699.99	645.04	54.95	12.738	
12,700.00	10,500.00	12,010.84	9,800.00	47.99	45.87	-0.01	-1,851.30	-1,240.95	699.99	643.93	56.07	12.485	
12,800.00	10,500.00	12,110.84	9,800.00	48.83	46.74	-0.01	-1,951.29	-1,240.25	699.99	642.79	57.20	12.237	
12,900.00	10,500.00	12,210.84	9,800.00	49.70	47.63	-0.01	-2,051.29	-1,239.56	699.99	641.64	58.36	11.995	
13,000.00	10,500.00	12,310.84	9,800.00	50.60	48.56	-0.01	-2,151.29	-1,238.86	699.99	640.47	59.53	11.759	
13,100.00	10,500.00	12,410.84	9,800.00	51.52	49.51	-0.01	-2,251.29	-1,238.16	699.99	639.27	60.72	11.528	
13,200.00	10,500.00	12,510.84	9,800.00	52.47	50.49	-0.01	-2,351.28	-1,237.47	699.99	638.07	61.93	11.303	
13,300.00	10,500.00	12,610.84	9,800.00	53.44	51.49	-0.01	-2,451.28	-1,236.77	700.00	636.84	63.15	11.084	
13,400.00	10,500.00	12,710.84	9,800.00	54.44	52.51	-0.01	-2,551.28	-1,236.08	700.00	635.60	64.39	10.871	
13,500.00	10,500.00	12,810.84	9,800.00	55.45	53.55	-0.01	-2,651.28	-1,235.38	700.00	634.35	65.64	10.663	
13,600.00	10,500.00	12,910.84	9,800.00	56.48	54.61	-0.01	-2,751.27	-1,234.68	700.00	633.08	66.91	10.462	
13,700.00	10,500.00	13,010.84	9,800.00	57.53	55.69	-0.01	-2,851.27	-1,233.99	700.00	631.81	68.19	10.265	
13,800.00	10,500.00	13,110.84	9,800.00	58.60	56.78	-0.01	-2,951.27	-1,233.29	700.00	630.51	69.48	10.075	
13,900.00	10,500.00	13,210.84	9,800.00	59.68	57.89	-0.01	-3,051.27	-1,232.59	700.00	629.21	70.78	9.889	
14,000.00	10,500.00	13,310.84	9,800.00	60.78	59.01	-0.01	-3,151.26	-1,231.90	700.00	627.90	72.10	9.709	
14,100.00	10,500.00	13,410.84	9,800.00	61.89	60.15	-0.01	-3,251.26	-1,231.20	700.00	626.58	73.42	9.534	
14,200.00	10,500.00	13,510.84	9,800.00	63.01	61.30	-0.01	-3,351.26	-1,230.51	700.00	625.25	74.75	9.364	
14,300.00	10,500.00	13,610.84	9,800.00	64.15	62.46	-0.01	-3,451.26	-1,229.81	700.00	623.90	76.09	9.199	
14,400.00	10,500.00	13,710.84	9,800.00	65.30	63.64	-0.01	-3,551.25	-1,229.11	700.00	622.55	77.44	9.039	
14,500.00	10,500.00	13,810.84	9,800.00	66.46	64.82	-0.01	-3,651.25	-1,228.42	700.00	621.20	78.80	8.883	
14,600.00	10,500.00	13,910.84	9,800.00	67.63	66.01	-0.01	-3,751.25	-1,227.72	700.00	619.83	80.17	8.732	
14,700.00	10,500.00	14,010.84	9,800.00	68.81	67.22	-0.01	-3,851.25	-1,227.02	700.00	618.46	81.54	8.585	
14,800.00	10,500.00	14,110.84	9,800.00	70.00	68.43	-0.01	-3,951.24	-1,226.33	700.00	617.08	82.92	8.442	
14,900.00	10,500.00	14,210.84	9,800.00	71.20	69.65	-0.01	-4,051.24	-1,225.63	700.00	615.69	84.31	8.303	
15,000.00	10,500.00	14,310.84	9,800.00	72.41	70.88	-0.01	-4,151.24	-1,224.94	700.00	614.30	85.70	8.168	
15,100.00	10,500.00	14,410.84	9,800.00	73.63	72.12	-0.01	-4,251.24	-1,224.24	700.00	612.90	87.10	8.037	
15,200.00	10,500.00	14,510.84	9,800.00	74.85	73.37	-0.01	-4,351.23	-1,223.54	700.00	611.49	88.50	7.909	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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 304H - 304H - 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
15,300.00	10,500.00	14,610.84	9,800.00	76.09	74.62	0.00	-4,451.23	-1,222.85	700.00	610.08	89.91	7.785	
15,400.00	10,500.00	14,710.84	9,800.00	77.33	75.88	0.00	-4,551.23	-1,222.15	700.00	608.67	91.33	7.665	
15,500.00	10,500.00	14,810.84	9,800.00	78.57	77.14	0.00	-4,651.23	-1,221.46	700.00	607.25	92.75	7.547	
15,600.00	10,500.00	14,910.84	9,800.00	79.82	78.41	0.00	-4,751.23	-1,220.76	700.00	605.82	94.17	7.433	
15,700.00	10,500.00	15,010.84	9,800.00	81.08	79.69	0.00	-4,851.22	-1,220.06	700.00	604.39	95.60	7.322	
15,800.00	10,500.00	15,110.84	9,800.00	82.35	80.97	0.00	-4,951.22	-1,219.37	700.00	602.96	97.04	7.214	
15,900.00	10,500.00	15,210.84	9,800.00	83.62	82.26	0.00	-5,051.22	-1,218.67	700.00	601.52	98.48	7.108	
16,000.00	10,500.00	15,310.84	9,800.00	84.89	83.55	0.00	-5,151.22	-1,217.97	700.00	600.08	99.92	7.006	
16,100.00	10,500.00	15,410.84	9,800.00	86.17	84.85	0.00	-5,251.21	-1,217.28	700.00	598.63	101.36	6.906	
16,200.00	10,500.00	15,510.84	9,800.00	87.46	86.15	0.00	-5,351.21	-1,216.58	700.00	597.19	102.81	6.808	
16,300.00	10,500.00	15,610.84	9,800.00	88.75	87.45	0.00	-5,451.21	-1,215.89	700.00	595.73	104.27	6.714	
16,400.00	10,500.00	15,710.84	9,800.00	90.04	88.76	0.00	-5,551.21	-1,215.19	700.00	594.28	105.72	6.621	
16,500.00	10,500.00	15,810.84	9,800.00	91.34	90.08	0.00	-5,651.20	-1,214.49	700.00	592.82	107.18	6.531	
16,600.00	10,500.00	15,910.84	9,800.00	92.65	91.39	0.00	-5,751.20	-1,213.80	700.00	591.35	108.64	6.443	
16,700.00	10,500.00	16,010.84	9,800.00	93.95	92.71	0.00	-5,851.20	-1,213.10	700.00	589.89	110.11	6.357	
16,800.00	10,500.00	16,110.84	9,800.00	95.26	94.04	0.00	-5,951.20	-1,212.40	700.00	588.42	111.58	6.274	
16,900.00	10,500.00	16,210.84	9,800.00	96.58	95.37	0.00	-6,051.19	-1,211.71	700.00	586.95	113.05	6.192	
17,000.00	10,500.00	16,310.84	9,800.00	97.90	96.70	0.00	-6,151.19	-1,211.01	700.00	585.48	114.52	6.112	
17,100.00	10,500.00	16,410.84	9,800.00	99.22	98.03	0.00	-6,251.19	-1,210.32	700.00	584.00	116.00	6.035	
17,200.00	10,500.00	16,510.84	9,800.00	100.54	99.37	0.00	-6,351.19	-1,209.62	700.00	582.52	117.48	5.959	
17,300.00	10,500.00	16,610.84	9,800.00	101.87	100.71	0.00	-6,451.18	-1,208.92	700.00	581.04	118.96	5.884	
17,400.00	10,500.00	16,710.84	9,800.00	103.20	102.05	0.00	-6,551.18	-1,208.23	700.00	579.56	120.44	5.812	
17,500.00	10,500.00	16,810.84	9,800.00	104.53	103.39	0.00	-6,651.18	-1,207.53	700.00	578.07	121.93	5.741	
17,600.00	10,500.00	16,910.84	9,800.00	105.87	104.74	0.00	-6,751.18	-1,206.83	700.00	576.59	123.41	5.672	
17,700.00	10,500.00	17,010.84	9,800.00	107.21	106.09	0.00	-6,851.17	-1,206.14	700.00	575.10	124.90	5.604	
17,800.00	10,500.00	17,110.84	9,800.00	108.55	107.44	0.00	-6,951.17	-1,205.44	700.00	573.61	126.39	5.538	
17,900.00	10,500.00	17,210.84	9,800.00	109.89	108.80	0.00	-7,051.17	-1,204.75	700.00	572.11	127.89	5.474	
18,000.00	10,500.00	17,310.84	9,800.00	111.24	110.15	0.00	-7,151.17	-1,204.05	700.00	570.62	129.38	5.410	
18,100.00	10,500.00	17,410.84	9,800.00	112.59	111.51	0.00	-7,251.16	-1,203.35	700.00	569.12	130.88	5.348	
18,200.00	10,500.00	17,510.84	9,800.00	113.94	112.87	0.00	-7,351.16	-1,202.66	700.00	567.62	132.38	5.288	
18,280.05	10,500.00	17,590.89	9,800.00	115.02	113.96	0.00	-7,431.21	-1,202.10	700.00	566.42	133.58	5.240	



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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
0.00	0.00	0.00	0.00	0.00	0.00	89.23	0.44	32.93	32.93				
100.00	100.00	100.00	100.00	0.13	0.13	89.23	0.44	32.93	32.93	32.66	0.27	122.494	
200.00	200.00	200.00	200.00	0.49	0.49	89.23	0.44	32.93	32.93	31.95	0.99	33.407	
300.00	300.00	300.00	300.00	0.85	0.85	89.23	0.44	32.93	32.93	31.23	1.70	19.341	
400.00	400.00	400.00	400.00	1.21	1.21	89.23	0.44	32.93	32.93	30.51	2.42	13.610	
500.00	500.00	500.00	500.00	1.57	1.57	89.23	0.44	32.93	32.93	29.80	3.14	10.499	
600.00	600.00	600.00	600.00	1.93	1.93	89.23	0.44	32.93	32.93	29.08	3.85	8.546	
700.00	700.00	700.00	700.00	2.29	2.29	89.23	0.44	32.93	32.93	28.36	4.57	7.206	
800.00	800.00	800.00	800.00	2.64	2.64	89.23	0.44	32.93	32.93	27.65	5.29	6.229	
900.00	900.00	900.00	900.00	3.00	3.00	89.23	0.44	32.93	32.93	26.93	6.00	5.485	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	89.23	0.44	32.93	32.93	26.21	6.72	4.900	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	89.23	0.44	32.93	32.93	25.49	7.44	4.427	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	89.23	0.44	32.93	32.93	24.78	8.16	4.038	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	89.23	0.44	32.93	32.93	24.06	8.87	3.712	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	89.23	0.44	32.93	32.93	23.34	9.59	3.434	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	89.23	0.44	32.93	32.93	22.63	10.31	3.195	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	89.23	0.44	32.93	32.93	21.91	11.02	2.988	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	89.23	0.44	32.93	32.93	21.19	11.74	2.805	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	89.23	0.44	32.93	32.93	20.48	12.46	2.644	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	89.23	0.44	32.93	32.93	19.76	13.17	2.500	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	89.23	0.44	32.93	32.93	19.04	13.89	2.371	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	89.23	0.44	32.93	32.93	18.33	14.61	2.254	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	89.23	0.44	32.93	32.93	17.61	15.32	2.149	
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	89.23	0.44	32.93	32.93	16.89	16.04	2.053	
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	89.23	0.44	32.93	32.93	16.17	16.76	1.965	
2,500.00	2,500.00	2,500.00	2,500.00	8.74	8.74	89.23	0.44	32.93	32.93	15.46	17.48	1.885	
2,600.00	2,600.00	2,600.00	2,600.00	9.10	9.10	89.23	0.44	32.93	32.93	14.74	18.19	1.810	
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	89.23	0.44	32.93	32.93	14.02	18.91	1.742	
2,800.00	2,800.00	2,800.00	2,800.00	9.81	9.81	89.23	0.44	32.93	32.93	13.31	19.63	1.678	
2,900.00	2,900.00	2,900.00	2,900.00	10.17	10.17	89.23	0.44	32.93	32.93	12.59	20.34	1.619	
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	89.23	0.44	32.93	32.93	11.87	21.06	1.564	
3,100.00	3,100.00	3,100.00	3,100.00	10.89	10.89	89.23	0.44	32.93	32.93	11.16	21.78	1.512	
3,200.00	3,200.00	3,200.00	3,200.00	11.25	11.25	89.23	0.44	32.93	32.93	10.44	22.49	1.464 Level 3	
3,300.00	3,300.00	3,300.00	3,300.00	11.61	11.61	89.23	0.44	32.93	32.93	9.72	23.21	1.419 Level 3	
3,400.00	3,400.00	3,400.00	3,400.00	11.96	11.96	89.23	0.44	32.93	32.93	9.00	23.93	1.376 Level 3	
3,500.00	3,500.00	3,500.00	3,500.00	12.32	12.32	89.23	0.44	32.93	32.93	8.29	24.64	1.336 Level 3	
3,600.00	3,600.00	3,600.00	3,600.00	12.68	12.68	89.23	0.44	32.93	32.93	7.57	25.36	1.299 Level 3	
3,700.00	3,700.00	3,700.00	3,700.00	13.04	13.04	89.23	0.44	32.93	32.93	6.85	26.08	1.263 Level 3	
3,800.00	3,800.00	3,800.00	3,800.00	13.40	13.40	89.23	0.44	32.93	32.93	6.14	26.80	1.229 Level 2	
3,900.00	3,900.00	3,900.00	3,900.00	13.76	13.76	89.23	0.44	32.93	32.93	5.42	27.51	1.197 Level 2	
4,000.00	4,000.00	4,000.00	4,000.00	14.11	14.11	89.23	0.44	32.93	32.93	4.70	28.23	1.167 Level 2	
4,100.00	4,100.00	4,100.00	4,100.00	14.47	14.47	89.23	0.44	32.93	32.93	3.99	28.95	1.138 Level 2	
4,200.00	4,200.00	4,200.00	4,200.00	14.83	14.83	89.23	0.44	32.93	32.93	3.27	29.66	1.110 Level 2	
4,300.00	4,300.00	4,300.00	4,300.00	15.19	15.19	89.23	0.44	32.93	32.93	2.55	30.38	1.084 Level 2	
4,400.00	4,400.00	4,400.00	4,400.00	15.55	15.55	89.23	0.44	32.93	32.93	1.84	31.10	1.059 Level 2	
4,500.00	4,500.00	4,500.00	4,500.00	15.91	15.91	89.23	0.44	32.93	32.93	1.12	31.81	1.035 Level 2	
4,600.00	4,600.00	4,600.00	4,600.00	16.27	16.27	89.23	0.44	32.93	32.93	0.40	32.53	1.012 Level 2	
4,700.00	4,700.00	4,700.00	4,700.00	16.62	16.62	89.23	0.44	32.93	32.93	-0.32	33.25	0.991 Level 1	
4,800.00	4,800.00	4,800.00	4,800.00	16.98	16.98	89.23	0.44	32.93	32.93	-1.03	33.97	0.970 Level 1	
4,900.00	4,900.00	4,900.00	4,900.00	17.34	17.34	89.23	0.44	32.93	32.93	-1.75	34.68	0.950 Level 1	
5,000.00	5,000.00	5,000.00	5,000.00	17.70	17.70	89.23	0.44	32.93	32.93	-2.47	35.40	0.930 Level 1	
5,100.00	5,100.00	5,100.00	5,100.00	18.06	18.06	89.23	0.44	32.93	32.93	-3.18	36.12	0.912 Level 1	

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

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COMPASS 5000.15 Build 93A



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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
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	89.23	0.44	32.93	32.93	-3.90	36.83	0.894	Level 1	
5,300.00	5,300.00	5,300.00	5,300.00	18.77	18.77	89.23	0.44	32.93	32.93	-4.62	37.55	0.877	Level 1	
5,400.00	5,400.00	5,400.00	5,400.00	19.13	19.13	89.23	0.44	32.93	32.93	-5.33	38.27	0.861	Level 1	
5,500.00	5,500.00	5,500.00	5,500.00	19.49	19.49	89.23	0.44	32.93	32.93	-6.05	38.98	0.845	Level 1	
5,600.00	5,600.00	5,600.00	5,600.00	19.85	19.85	89.23	0.44	32.93	32.93	-6.77	39.70	0.830	Level 1	
5,620.00	5,620.00	5,620.00	5,620.00	19.92	19.92	89.23	0.44	32.93	32.93	-6.91	39.84	0.827	Level 1, CC, ES, SF	
5,700.00	5,699.99	5,700.14	5,700.14	20.20	20.21	163.67	0.97	32.75	33.55	-6.86	40.41	0.830	Level 1	
5,800.00	5,799.94	5,800.27	5,800.24	20.55	20.57	161.71	3.12	32.01	36.09	-5.02	41.11	0.878	Level 1	
5,900.00	5,899.76	5,900.31	5,900.20	20.90	20.92	158.85	6.92	30.70	40.67	-1.15	41.81	0.973	Level 1	
6,000.00	5,999.40	6,000.21	5,999.93	21.24	21.28	155.72	12.36	28.83	47.36	4.85	42.51	1.114	Level 2	
6,100.00	6,098.78	6,099.91	6,099.35	21.59	21.64	152.75	19.43	26.39	56.23	13.01	43.21	1.301	Level 3	
6,200.00	6,197.85	6,199.36	6,198.38	21.95	21.99	150.17	28.11	23.41	67.29	23.37	43.91	1.532		
6,300.00	6,296.54	6,298.46	6,296.97	22.30	22.35	148.64	37.55	20.16	80.57	35.96	44.61	1.806		
6,400.00	6,394.78	6,397.25	6,395.26	22.66	22.70	148.33	46.95	16.92	96.05	50.74	45.31	2.120		
6,500.00	6,492.50	6,495.67	6,493.18	23.02	23.05	148.74	56.32	13.70	113.70	67.69	46.00	2.472		
6,600.00	6,589.65	6,593.66	6,590.67	23.39	23.40	149.57	65.65	10.49	133.52	86.83	46.70	2.859		
6,700.00	6,686.16	6,691.15	6,687.67	23.76	23.75	150.61	74.94	7.30	155.57	108.18	47.39	3.283		
6,800.00	6,781.96	6,788.08	6,784.10	24.14	24.10	151.74	84.16	4.12	179.87	131.80	48.08	3.741		
6,900.00	6,876.99	6,884.38	6,879.92	24.53	24.45	152.89	93.33	0.97	206.45	157.69	48.76	4.234		
7,000.00	6,971.19	6,979.99	6,975.04	24.93	24.79	154.01	102.43	-2.17	235.34	185.89	49.44	4.760		
7,100.00	7,064.49	7,074.85	7,069.42	25.35	25.14	155.08	111.47	-5.27	266.54	216.42	50.12	5.318		
7,200.00	7,156.84	7,168.89	7,162.98	25.78	25.48	156.08	120.42	-8.35	300.06	249.26	50.80	5.907		
7,300.00	7,248.17	7,262.05	7,255.67	26.23	25.82	157.01	129.29	-11.41	335.90	284.43	51.47	6.526		
7,400.00	7,338.43	7,354.28	7,347.42	26.69	26.15	157.86	138.07	-14.43	374.05	321.91	52.14	7.175		
7,500.00	7,427.55	7,445.49	7,438.18	27.18	26.48	158.65	146.75	-17.42	414.50	361.70	52.80	7.851		
7,600.00	7,515.47	7,535.65	7,527.88	27.70	26.81	159.37	155.34	-20.37	457.24	403.78	53.46	8.553		
7,700.00	7,602.13	7,624.69	7,616.46	28.24	27.14	160.03	163.81	-23.29	502.24	448.13	54.11	9.282		
7,800.00	7,687.49	7,712.54	7,703.87	28.80	27.46	160.63	172.18	-26.16	549.48	494.72	54.76	10.034		
7,834.82	7,716.89	7,742.85	7,734.02	29.01	27.57	160.83	175.06	-27.16	566.45	511.47	54.99	10.302		
7,900.00	7,771.77	7,799.43	7,790.31	29.40	27.77	161.34	180.45	-29.01	598.49	543.08	55.40	10.802		
7,969.34	7,830.15	7,859.62	7,850.20	29.83	27.99	161.82	186.18	-30.98	632.60	576.75	55.85	11.326		
8,000.00	7,856.03	7,886.30	7,876.74	30.02	28.09	162.10	188.72	-31.86	647.60	591.55	56.05	11.553		
8,100.00	7,941.33	7,974.10	7,964.10	30.65	28.41	162.87	197.08	-34.73	695.14	638.43	56.71	12.257		
8,200.00	8,027.94	8,063.09	8,052.63	31.27	28.74	163.48	205.55	-37.65	740.53	683.15	57.38	12.905		
8,300.00	8,115.81	8,153.20	8,142.29	31.90	29.07	163.97	214.13	-40.60	783.74	725.67	58.07	13.497		
8,400.00	8,204.88	8,244.38	8,233.00	32.51	29.40	164.36	222.81	-43.59	824.72	765.95	58.76	14.034		
8,500.00	8,295.09	8,336.56	8,324.71	33.12	29.74	164.67	231.59	-46.61	863.43	803.96	59.47	14.518		
8,600.00	8,386.38	8,429.68	8,417.36	33.72	30.09	164.90	240.45	-49.66	899.85	839.66	60.19	14.951		
8,700.00	8,478.68	8,523.69	8,510.89	34.30	30.43	165.07	249.40	-52.74	933.94	873.03	60.91	15.333		
8,800.00	8,571.95	8,618.51	8,605.23	34.86	30.78	165.19	258.43	-55.84	965.68	904.04	61.64	15.666		
8,900.00	8,666.11	8,714.09	8,700.33	35.41	31.13	165.25	267.53	-58.97	995.06	932.68	62.38	15.952		
9,000.00	8,761.11	8,807.47	8,793.25	35.94	31.48	165.28	276.23	-61.97	1,022.12	959.02	63.10	16.198		
9,100.00	8,856.88	8,900.00	8,885.45	36.45	31.82	165.34	283.61	-64.51	1,047.25	983.43	63.82	16.410		
9,200.00	8,953.36	8,990.17	8,975.41	36.94	32.15	165.44	289.45	-66.52	1,070.48	1,005.97	64.51	16.594		
9,300.00	9,050.48	9,081.96	9,067.07	37.41	32.48	165.57	294.01	-68.09	1,091.82	1,026.61	65.21	16.744		
9,400.00	9,148.19	9,174.00	9,159.04	37.87	32.81	165.74	297.19	-69.18	1,111.26	1,045.36	65.90	16.864		
9,500.00	9,246.41	9,266.22	9,251.25	38.30	33.14	165.93	298.98	-69.80	1,128.79	1,062.21	66.58	16.955		
9,600.00	9,345.08	9,358.41	9,343.43	38.72	33.46	166.17	298.94	-69.94	1,144.42	1,077.18	67.24	17.020		
9,700.00	9,444.13	9,447.53	9,431.59	39.11	33.73	166.97	286.78	-69.82	1,158.30	1,090.49	67.81	17.082		
9,800.00	9,543.50	9,528.94	9,508.87	39.49	33.95	168.35	261.54	-69.59	1,171.10	1,102.85	68.25	17.160		
9,900.00	9,643.13	9,600.00	9,572.00	39.85	34.12	170.03	229.05	-69.29	1,183.90	1,115.36	68.54	17.274		
10,000.00	9,742.95	9,659.81	9,620.91	40.19	34.24	171.74	194.70	-68.98	1,197.83	1,129.19	68.65	17.450		

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	9,842.89	9,709.87	9,658.28	40.51	34.33	173.37	161.43	-68.67	1,213.86	1,145.31	68.55	17.708	
10,184.16	9,927.04	9,750.00	9,685.60	40.78	34.40	99.81	132.04	-68.40	1,229.51	1,161.18	68.33	17.993	
10,200.00	9,942.88	9,750.00	9,685.60	40.82	34.40	-79.47	132.04	-68.40	1,232.68	1,164.47	68.21	18.071	
10,250.00	9,992.73	9,775.00	9,701.33	40.96	34.44	-77.58	112.62	-68.23	1,243.12	1,175.10	68.01	18.277	
10,300.00	10,042.09	9,791.04	9,710.87	41.09	34.47	-75.99	99.74	-68.11	1,254.00	1,186.30	67.70	18.523	
10,350.00	10,090.57	9,810.86	9,722.07	41.21	34.50	-74.29	83.38	-67.96	1,265.18	1,197.79	67.39	18.774	
10,400.00	10,137.81	9,825.00	9,729.64	41.32	34.52	-72.78	71.43	-67.85	1,276.51	1,209.51	67.00	19.053	
10,450.00	10,183.44	9,850.00	9,742.14	41.42	34.56	-71.03	49.79	-67.65	1,287.76	1,221.07	66.69	19.310	
10,500.00	10,227.12	9,875.00	9,753.49	41.51	34.60	-69.37	27.51	-67.45	1,298.87	1,232.50	66.37	19.572	
10,550.00	10,268.52	9,890.75	9,760.03	41.59	34.63	-68.00	13.19	-67.31	1,309.64	1,243.69	65.96	19.856	
10,600.00	10,307.32	9,910.84	9,767.69	41.66	34.66	-66.63	-5.38	-67.14	1,319.99	1,254.40	65.59	20.124	
10,650.00	10,343.23	9,925.00	9,772.61	41.71	34.68	-65.46	-18.66	-67.02	1,329.82	1,264.62	65.20	20.396	
10,700.00	10,375.96	9,950.00	9,780.34	41.75	34.72	-64.23	-42.43	-66.80	1,338.93	1,274.02	64.91	20.627	
10,750.00	10,405.28	9,975.00	9,786.81	41.78	34.75	-63.12	-66.57	-66.58	1,347.32	1,282.67	64.64	20.842	
10,800.00	10,430.96	9,991.44	9,790.37	41.80	34.78	-62.25	-82.62	-66.44	1,354.85	1,290.48	64.37	21.049	
10,850.00	10,452.81	10,011.64	9,793.99	41.80	34.81	-61.46	-102.49	-66.25	1,361.47	1,297.31	64.16	21.221	
10,900.00	10,470.65	10,025.00	9,795.92	41.81	34.83	-60.85	-115.71	-66.13	1,367.16	1,303.18	63.98	21.369	
10,950.00	10,484.36	10,050.00	9,798.53	41.80	34.87	-60.27	-140.57	-65.90	1,371.73	1,307.84	63.89	21.469	
11,000.00	10,493.83	10,075.00	9,799.84	41.79	34.90	-59.84	-165.53	-65.67	1,375.28	1,311.42	63.86	21.535	
11,050.00	10,498.98	10,099.94	9,800.00	41.78	34.94	-59.56	-190.47	-65.45	1,377.67	1,313.79	63.89	21.565	
11,084.16	10,500.00	10,134.08	9,800.00	41.77	35.00	-59.48	-224.60	-65.13	1,378.25	1,314.29	63.96	21.549	
11,100.00	10,500.00	10,149.92	9,800.00	41.77	35.03	-59.48	-240.44	-64.99	1,378.28	1,314.28	64.00	21.534	
11,200.00	10,500.00	10,249.92	9,800.00	41.76	35.25	-59.48	-340.44	-64.07	1,378.47	1,314.14	64.34	21.426	
11,300.00	10,500.00	10,349.92	9,800.00	41.78	35.52	-59.49	-440.43	-63.15	1,378.66	1,313.89	64.77	21.284	
11,400.00	10,500.00	10,449.92	9,800.00	41.82	35.85	-59.49	-540.43	-62.24	1,378.85	1,313.54	65.31	21.112	
11,500.00	10,500.00	10,549.92	9,800.00	41.91	36.24	-59.50	-640.43	-61.32	1,379.04	1,313.09	65.95	20.911	
11,600.00	10,500.00	10,649.92	9,800.00	42.04	36.67	-59.50	-740.42	-60.40	1,379.23	1,312.55	66.68	20.685	
11,700.00	10,500.00	10,749.92	9,800.00	42.23	37.16	-59.51	-840.42	-59.48	1,379.42	1,311.91	67.50	20.435	
11,800.00	10,500.00	10,849.92	9,800.00	42.50	37.69	-59.51	-940.41	-58.57	1,379.61	1,311.19	68.42	20.165	
11,900.00	10,500.00	10,949.92	9,800.00	42.85	38.27	-59.51	-1,040.41	-57.65	1,379.79	1,310.38	69.42	19.877	
12,000.00	10,500.00	11,049.91	9,800.00	43.28	38.90	-59.52	-1,140.40	-56.73	1,379.98	1,309.48	70.50	19.574	
12,100.00	10,500.00	11,149.91	9,800.00	43.79	39.57	-59.52	-1,240.40	-55.81	1,380.17	1,308.51	71.66	19.260	
12,200.00	10,500.00	11,249.91	9,800.00	44.36	40.28	-59.53	-1,340.39	-54.90	1,380.36	1,307.47	72.90	18.936	
12,300.00	10,500.00	11,349.91	9,800.00	45.00	41.02	-59.53	-1,440.39	-53.98	1,380.55	1,306.35	74.20	18.605	
12,400.00	10,500.00	11,449.91	9,800.00	45.68	41.81	-59.54	-1,540.39	-53.06	1,380.74	1,305.16	75.58	18.269	
12,500.00	10,500.00	11,549.91	9,800.00	46.41	42.63	-59.54	-1,640.38	-52.14	1,380.93	1,303.91	77.01	17.931	
12,600.00	10,500.00	11,649.91	9,800.00	47.18	43.48	-59.55	-1,740.38	-51.23	1,381.12	1,302.60	78.51	17.591	
12,700.00	10,500.00	11,749.91	9,800.00	47.99	44.36	-59.55	-1,840.37	-50.31	1,381.31	1,301.24	80.07	17.252	
12,800.00	10,500.00	11,849.91	9,800.00	48.83	45.26	-59.56	-1,940.37	-49.39	1,381.49	1,299.82	81.68	16.914	
12,900.00	10,500.00	11,949.91	9,800.00	49.70	46.20	-59.56	-2,040.36	-48.47	1,381.68	1,298.35	83.34	16.580	
13,000.00	10,500.00	12,049.91	9,800.00	50.60	47.16	-59.57	-2,140.36	-47.56	1,381.87	1,296.83	85.04	16.249	
13,100.00	10,500.00	12,149.91	9,800.00	51.52	48.15	-59.57	-2,240.35	-46.64	1,382.06	1,295.27	86.80	15.923	
13,200.00	10,500.00	12,249.91	9,800.00	52.47	49.15	-59.57	-2,340.35	-45.72	1,382.25	1,293.66	88.59	15.603	
13,300.00	10,500.00	12,349.91	9,800.00	53.44	50.18	-59.58	-2,440.35	-44.81	1,382.44	1,292.01	90.43	15.288	
13,400.00	10,500.00	12,449.91	9,800.00	54.44	51.23	-59.58	-2,540.34	-43.89	1,382.63	1,290.33	92.30	14.980	
13,500.00	10,500.00	12,549.91	9,800.00	55.45	52.30	-59.59	-2,640.34	-42.97	1,382.82	1,288.61	94.20	14.679	
13,600.00	10,500.00	12,649.91	9,800.00	56.48	53.38	-59.59	-2,740.33	-42.05	1,383.01	1,286.86	96.14	14.385	
13,700.00	10,500.00	12,749.91	9,800.00	57.53	54.48	-59.60	-2,840.33	-41.14	1,383.20	1,285.08	98.12	14.098	
13,800.00	10,500.00	12,849.91	9,800.00	58.60	55.60	-59.60	-2,940.32	-40.22	1,383.38	1,283.27	100.12	13.818	
13,900.00	10,500.00	12,949.91	9,800.00	59.68	56.73	-59.61	-3,040.32	-39.30	1,383.57	1,281.43	102.14	13.545	
14,000.00	10,500.00	13,049.91	9,800.00	60.78	57.87	-59.61	-3,140.31	-38.38	1,383.76	1,279.57	104.20	13.280	
14,100.00	10,500.00	13,149.91	9,800.00	61.89	59.03	-59.62	-3,240.31	-37.47	1,383.95	1,277.68	106.28	13.022	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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
14,200.00	10,500.00	13,249.91	9,800.00	63.01	60.20	-59.62	-3,340.31	-36.55	1,384.14	1,275.76	108.38	12.771	
14,300.00	10,500.00	13,349.91	9,800.00	64.15	61.38	-59.62	-3,440.30	-35.63	1,384.33	1,273.83	110.50	12.528	
14,400.00	10,500.00	13,449.91	9,800.00	65.30	62.57	-59.63	-3,540.30	-34.71	1,384.52	1,271.87	112.65	12.291	
14,500.00	10,500.00	13,549.91	9,800.00	66.46	63.78	-59.63	-3,640.29	-33.80	1,384.71	1,269.90	114.81	12.061	
14,600.00	10,500.00	13,649.91	9,800.00	67.63	64.99	-59.64	-3,740.29	-32.88	1,384.90	1,267.91	116.99	11.838	
14,700.00	10,500.00	13,749.91	9,800.00	68.81	66.21	-59.64	-3,840.28	-31.96	1,385.09	1,265.90	119.19	11.621	
14,800.00	10,500.00	13,849.91	9,800.00	70.00	67.44	-59.65	-3,940.28	-31.04	1,385.28	1,263.87	121.41	11.410	
14,900.00	10,500.00	13,949.91	9,800.00	71.20	68.68	-59.65	-4,040.27	-30.13	1,385.47	1,261.83	123.64	11.206	
15,000.00	10,500.00	14,049.91	9,800.00	72.41	69.92	-59.66	-4,140.27	-29.21	1,385.65	1,259.77	125.88	11.007	
15,100.00	10,500.00	14,149.91	9,800.00	73.63	71.17	-59.66	-4,240.27	-28.29	1,385.84	1,257.70	128.14	10.815	
15,200.00	10,500.00	14,249.91	9,800.00	74.85	72.43	-59.67	-4,340.26	-27.37	1,386.03	1,255.61	130.42	10.628	
15,300.00	10,500.00	14,349.91	9,800.00	76.09	73.70	-59.67	-4,440.26	-26.46	1,386.22	1,253.52	132.70	10.446	
15,400.00	10,500.00	14,449.91	9,800.00	77.33	74.97	-59.68	-4,540.25	-25.54	1,386.41	1,251.41	135.00	10.270	
15,500.00	10,500.00	14,549.91	9,800.00	78.57	76.25	-59.68	-4,640.25	-24.62	1,386.60	1,249.29	137.31	10.098	
15,600.00	10,500.00	14,649.91	9,800.00	79.82	77.53	-59.68	-4,740.24	-23.71	1,386.79	1,247.16	139.63	9.932	
15,700.00	10,500.00	14,749.91	9,800.00	81.08	78.82	-59.69	-4,840.24	-22.79	1,386.98	1,245.02	141.96	9.770	
15,800.00	10,500.00	14,849.91	9,800.00	82.35	80.12	-59.69	-4,940.23	-21.87	1,387.17	1,242.87	144.30	9.613	
15,900.00	10,500.00	14,949.91	9,800.00	83.62	81.42	-59.70	-5,040.23	-20.95	1,387.36	1,240.71	146.65	9.460	
16,000.00	10,500.00	15,049.91	9,800.00	84.89	82.72	-59.70	-5,140.23	-20.04	1,387.55	1,238.54	149.01	9.312	
16,100.00	10,500.00	15,149.91	9,800.00	86.17	84.03	-59.71	-5,240.22	-19.12	1,387.74	1,236.36	151.38	9.167	
16,200.00	10,500.00	15,249.90	9,800.00	87.46	85.34	-59.71	-5,340.22	-18.20	1,387.92	1,234.17	153.75	9.027	
16,300.00	10,500.00	15,349.90	9,800.00	88.75	86.66	-59.72	-5,440.21	-17.28	1,388.11	1,231.98	156.14	8.890	
16,400.00	10,500.00	15,449.90	9,800.00	90.04	87.98	-59.72	-5,540.21	-16.37	1,388.30	1,229.78	158.53	8.758	
16,500.00	10,500.00	15,549.90	9,800.00	91.34	89.30	-59.73	-5,640.20	-15.45	1,388.49	1,227.57	160.92	8.628	
16,600.00	10,500.00	15,649.90	9,800.00	92.65	90.63	-59.73	-5,740.20	-14.53	1,388.68	1,225.35	163.33	8.502	
16,700.00	10,500.00	15,749.90	9,800.00	93.95	91.96	-59.73	-5,840.19	-13.61	1,388.87	1,223.13	165.74	8.380	
16,800.00	10,500.00	15,849.90	9,800.00	95.26	93.30	-59.74	-5,940.19	-12.70	1,389.06	1,220.91	168.16	8.261	
16,900.00	10,500.00	15,949.90	9,800.00	96.58	94.64	-59.74	-6,040.19	-11.78	1,389.25	1,218.67	170.58	8.144	
17,000.00	10,500.00	16,049.90	9,800.00	97.90	95.98	-59.75	-6,140.18	-10.86	1,389.44	1,216.43	173.01	8.031	
17,100.00	10,500.00	16,149.90	9,800.00	99.22	97.32	-59.75	-6,240.18	-9.94	1,389.63	1,214.19	175.44	7.921	
17,200.00	10,500.00	16,249.90	9,800.00	100.54	98.67	-59.76	-6,340.17	-9.03	1,389.82	1,211.94	177.88	7.813	
17,300.00	10,500.00	16,349.90	9,800.00	101.87	100.01	-59.76	-6,440.17	-8.11	1,390.01	1,209.68	180.32	7.708	
17,400.00	10,500.00	16,449.90	9,800.00	103.20	101.36	-59.77	-6,540.16	-7.19	1,390.20	1,207.42	182.77	7.606	
17,500.00	10,500.00	16,549.90	9,800.00	104.53	102.72	-59.77	-6,640.16	-6.28	1,390.39	1,205.16	185.23	7.506	
17,600.00	10,500.00	16,649.90	9,800.00	105.87	104.07	-59.78	-6,740.15	-5.36	1,390.58	1,202.89	187.69	7.409	
17,700.00	10,500.00	16,749.90	9,800.00	107.21	105.43	-59.78	-6,840.15	-4.44	1,390.77	1,200.62	190.15	7.314	
17,800.00	10,500.00	16,849.90	9,800.00	108.55	106.79	-59.78	-6,940.15	-3.52	1,390.95	1,198.34	192.62	7.221	
17,900.00	10,500.00	16,949.90	9,800.00	109.89	108.15	-59.79	-7,040.14	-2.61	1,391.14	1,196.06	195.09	7.131	
18,000.00	10,500.00	17,049.90	9,800.00	111.24	109.52	-59.79	-7,140.14	-1.69	1,391.33	1,193.77	197.56	7.043	
18,100.00	10,500.00	17,149.90	9,800.00	112.59	110.88	-59.80	-7,240.13	-0.77	1,391.52	1,191.48	200.04	6.956	
18,200.00	10,500.00	17,249.90	9,800.00	113.94	112.25	-59.80	-7,340.13	0.15	1,391.71	1,189.19	202.52	6.872	
18,280.05	10,500.00	17,328.76	9,800.00	115.02	113.33	-59.81	-7,418.98	0.87	1,391.86	1,187.37	204.49	6.807	



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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							
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	89.31	0.80	65.97	65.97				
100.00	100.00	100.00	100.00	0.13	0.13	89.31	0.80	65.97	65.97	65.71	0.27	245.393	
200.00	200.00	200.00	200.00	0.49	0.49	89.31	0.80	65.97	65.97	64.99	0.99	66.925	
300.00	300.00	300.00	300.00	0.85	0.85	89.31	0.80	65.97	65.97	64.27	1.70	38.746	
400.00	400.00	400.00	400.00	1.21	1.21	89.31	0.80	65.97	65.97	63.56	2.42	27.266	
500.00	500.00	500.00	500.00	1.57	1.57	89.31	0.80	65.97	65.97	62.84	3.14	21.034	
600.00	600.00	600.00	600.00	1.93	1.93	89.31	0.80	65.97	65.97	62.12	3.85	17.120	
700.00	700.00	700.00	700.00	2.29	2.29	89.31	0.80	65.97	65.97	61.40	4.57	14.435	
800.00	800.00	800.00	800.00	2.64	2.64	89.31	0.80	65.97	65.97	60.69	5.29	12.478	
900.00	900.00	900.00	900.00	3.00	3.00	89.31	0.80	65.97	65.97	59.97	6.00	10.988	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	89.31	0.80	65.97	65.97	59.25	6.72	9.816	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	89.31	0.80	65.97	65.97	58.54	7.44	8.870	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	89.31	0.80	65.97	65.97	57.82	8.16	8.090	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	89.31	0.80	65.97	65.97	57.10	8.87	7.436	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	89.31	0.80	65.97	65.97	56.39	9.59	6.880	
1,500.00	1,500.00	1,500.00	1,500.00	5.15	5.15	89.31	0.80	65.97	65.97	55.67	10.31	6.402	
1,600.00	1,600.00	1,600.00	1,600.00	5.51	5.51	89.31	0.80	65.97	65.97	54.95	11.02	5.985	
1,700.00	1,700.00	1,700.00	1,700.00	5.87	5.87	89.31	0.80	65.97	65.97	54.23	11.74	5.620	
1,800.00	1,800.00	1,800.00	1,800.00	6.23	6.23	89.31	0.80	65.97	65.97	53.52	12.46	5.296	
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	89.31	0.80	65.97	65.97	52.80	13.17	5.008	
2,000.00	2,000.00	2,000.00	2,000.00	6.95	6.95	89.31	0.80	65.97	65.97	52.08	13.89	4.750	
2,100.00	2,100.00	2,100.00	2,100.00	7.30	7.30	89.31	0.80	65.97	65.97	51.37	14.61	4.516	
2,200.00	2,200.00	2,200.00	2,200.00	7.66	7.66	89.31	0.80	65.97	65.97	50.65	15.32	4.305	
2,300.00	2,300.00	2,300.00	2,300.00	8.02	8.02	89.31	0.80	65.97	65.97	49.93	16.04	4.113	
2,400.00	2,400.00	2,400.00	2,400.00	8.38	8.38	89.31	0.80	65.97	65.97	49.22	16.76	3.937	
2,500.00	2,500.00	2,500.00	2,500.00	8.74	8.74	89.31	0.80	65.97	65.97	48.50	17.48	3.775	
2,600.00	2,600.00	2,600.00	2,600.00	9.10	9.10	89.31	0.80	65.97	65.97	47.78	18.19	3.627	
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	89.31	0.80	65.97	65.97	47.07	18.91	3.489	
2,800.00	2,800.00	2,800.00	2,800.00	9.81	9.81	89.31	0.80	65.97	65.97	46.35	19.63	3.362	
2,900.00	2,900.00	2,900.00	2,900.00	10.17	10.17	89.31	0.80	65.97	65.97	45.63	20.34	3.243	
3,000.00	3,000.00	3,000.00	3,000.00	10.53	10.53	89.31	0.80	65.97	65.97	44.91	21.06	3.133	
3,100.00	3,100.00	3,100.00	3,100.00	10.89	10.89	89.31	0.80	65.97	65.97	44.20	21.78	3.030	
3,200.00	3,200.00	3,200.00	3,200.00	11.25	11.25	89.31	0.80	65.97	65.97	43.48	22.49	2.933	
3,300.00	3,300.00	3,300.00	3,300.00	11.61	11.61	89.31	0.80	65.97	65.97	42.76	23.21	2.842	
3,400.00	3,400.00	3,400.00	3,400.00	11.96	11.96	89.31	0.80	65.97	65.97	42.05	23.93	2.757	
3,500.00	3,500.00	3,500.00	3,500.00	12.32	12.32	89.31	0.80	65.97	65.97	41.33	24.64	2.677	
3,600.00	3,600.00	3,600.00	3,600.00	12.68	12.68	89.31	0.80	65.97	65.97	40.61	25.36	2.601	
3,700.00	3,700.00	3,700.00	3,700.00	13.04	13.04	89.31	0.80	65.97	65.97	39.90	26.08	2.530	
3,800.00	3,800.00	3,800.00	3,800.00	13.40	13.40	89.31	0.80	65.97	65.97	39.18	26.80	2.462	
3,900.00	3,900.00	3,900.00	3,900.00	13.76	13.76	89.31	0.80	65.97	65.97	38.46	27.51	2.398	
4,000.00	4,000.00	4,000.00	4,000.00	14.11	14.11	89.31	0.80	65.97	65.97	37.75	28.23	2.337	
4,100.00	4,100.00	4,100.00	4,100.00	14.47	14.47	89.31	0.80	65.97	65.97	37.03	28.95	2.279	
4,200.00	4,200.00	4,200.00	4,200.00	14.83	14.83	89.31	0.80	65.97	65.97	36.31	29.66	2.224	
4,300.00	4,300.00	4,300.00	4,300.00	15.19	15.19	89.31	0.80	65.97	65.97	35.59	30.38	2.172	
4,400.00	4,400.00	4,400.00	4,400.00	15.55	15.55	89.31	0.80	65.97	65.97	34.88	31.10	2.122	
4,500.00	4,500.00	4,500.00	4,500.00	15.91	15.91	89.31	0.80	65.97	65.97	34.16	31.81	2.074	
4,600.00	4,600.00	4,600.00	4,600.00	16.27	16.27	89.31	0.80	65.97	65.97	33.44	32.53	2.028	
4,700.00	4,700.00	4,700.00	4,700.00	16.62	16.62	89.31	0.80	65.97	65.97	32.73	33.25	1.984	
4,800.00	4,800.00	4,800.00	4,800.00	16.98	16.98	89.31	0.80	65.97	65.97	32.01	33.97	1.942	
4,900.00	4,900.00	4,900.00	4,900.00	17.34	17.34	89.31	0.80	65.97	65.97	31.29	34.68	1.902	
5,000.00	5,000.00	5,000.00	5,000.00	17.70	17.70	89.31	0.80	65.97	65.97	30.58	35.40	1.864	
5,100.00	5,100.00	5,100.00	5,100.00	18.06	18.06	89.31	0.80	65.97	65.97	29.86	36.12	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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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	
5,200.00	5,200.00	5,200.00	5,200.00	18.42	18.42	89.31	0.80	65.97	65.97	29.14	36.83	1.791	
5,300.00	5,300.00	5,300.00	5,300.00	18.77	18.77	89.31	0.80	65.97	65.97	28.42	37.55	1.757	
5,400.00	5,400.00	5,400.00	5,400.00	19.13	19.13	89.31	0.80	65.97	65.97	27.71	38.27	1.724	
5,500.00	5,500.00	5,500.00	5,500.00	19.49	19.49	89.31	0.80	65.97	65.97	26.99	38.98	1.692	
5,600.00	5,600.00	5,600.00	5,600.00	19.85	19.85	89.31	0.80	65.97	65.97	26.27	39.70	1.662	
5,620.00	5,620.00	5,620.00	5,620.00	19.92	19.92	89.31	0.80	65.97	65.97	26.13	39.84	1.656 CC, ES	
5,700.00	5,699.99	5,700.32	5,700.32	20.20	20.21	164.01	1.32	65.76	66.57	26.16	40.41	1.647 SF	
5,800.00	5,799.94	5,800.69	5,800.66	20.55	20.57	162.99	3.45	64.93	69.00	27.89	41.11	1.678	
5,900.00	5,899.76	5,900.97	5,900.86	20.90	20.93	161.34	7.21	63.46	73.35	31.54	41.81	1.754	
6,000.00	5,999.40	6,001.12	6,000.84	21.24	21.28	159.30	12.60	61.35	79.67	37.16	42.51	1.874	
6,100.00	6,098.78	6,101.09	6,100.52	21.59	21.64	157.08	19.60	58.61	88.03	44.82	43.21	2.037	
6,200.00	6,197.85	6,200.80	6,199.81	21.95	22.00	154.86	28.18	55.25	98.47	54.56	43.91	2.242	
6,300.00	6,296.54	6,299.95	6,298.46	22.30	22.35	153.27	37.40	51.65	111.17	66.56	44.61	2.492	
6,400.00	6,394.78	6,398.80	6,396.82	22.66	22.70	152.53	46.58	48.06	126.19	80.88	45.31	2.785	
6,500.00	6,492.50	6,497.30	6,494.83	23.02	23.06	152.39	55.73	44.48	143.47	97.47	46.00	3.119	
6,600.00	6,589.65	6,595.36	6,592.40	23.39	23.41	152.66	64.84	40.91	162.99	116.30	46.69	3.491	
6,700.00	6,686.16	6,692.94	6,689.49	23.76	23.76	153.21	73.90	37.36	184.77	137.38	47.38	3.899	
6,800.00	6,781.96	6,789.96	6,786.03	24.14	24.11	153.92	82.92	33.84	208.81	160.74	48.07	4.344	
6,900.00	6,876.99	6,886.36	6,881.95	24.53	24.46	154.71	91.87	30.33	235.15	186.39	48.76	4.823	
7,000.00	6,971.19	6,982.08	6,977.19	24.93	24.80	155.54	100.76	26.85	263.78	214.34	49.44	5.335	
7,100.00	7,064.49	7,077.05	7,071.68	25.35	25.14	156.36	109.59	23.40	294.73	244.61	50.12	5.881	
7,200.00	7,156.84	7,171.21	7,165.37	25.78	25.49	157.17	118.33	19.98	327.99	277.20	50.80	6.457	
7,300.00	7,248.17	7,264.49	7,258.19	26.23	25.82	157.95	127.00	16.59	363.57	312.10	51.47	7.064	
7,400.00	7,338.43	7,356.85	7,350.09	26.69	26.16	158.68	135.58	13.23	401.46	349.32	52.13	7.700	
7,500.00	7,427.55	7,448.20	7,440.99	27.18	26.49	159.37	144.06	9.91	441.64	388.85	52.80	8.365	
7,600.00	7,515.47	7,538.51	7,530.84	27.70	26.82	160.01	152.45	6.63	484.11	430.65	53.46	9.056	
7,700.00	7,602.13	7,627.69	7,619.58	28.24	27.15	160.60	160.74	3.39	528.84	474.73	54.11	9.773	
7,800.00	7,687.49	7,715.70	7,707.15	28.80	27.47	161.14	168.91	0.19	575.82	521.06	54.76	10.515	
7,834.82	7,716.89	7,746.07	7,737.37	29.01	27.58	161.32	171.74	-0.92	592.70	537.71	54.99	10.779	
7,900.00	7,771.77	7,802.75	7,793.77	29.40	27.78	161.80	177.00	-2.98	624.56	569.15	55.41	11.272	
7,969.34	7,830.15	7,863.06	7,853.77	29.83	28.00	162.25	182.60	-5.17	658.48	602.63	55.85	11.789	
8,000.00	7,856.03	7,889.78	7,880.37	30.02	28.10	162.51	185.09	-6.14	673.40	617.34	56.05	12.013	
8,100.00	7,941.33	7,977.75	7,967.89	30.65	28.42	163.25	193.26	-9.34	720.65	663.94	56.71	12.707	
8,200.00	8,027.94	8,066.89	8,056.58	31.27	28.75	163.84	201.54	-12.58	765.76	708.37	57.39	13.344	
8,300.00	8,115.81	8,157.14	8,146.39	31.90	29.08	164.31	209.92	-15.86	808.66	750.59	58.07	13.925	
8,400.00	8,204.88	8,248.46	8,237.25	32.51	29.42	164.69	218.41	-19.18	849.33	790.56	58.77	14.452	
8,500.00	8,295.09	8,340.77	8,329.10	33.12	29.76	164.99	226.98	-22.53	887.72	828.25	59.47	14.926	
8,600.00	8,386.38	8,434.02	8,421.89	33.72	30.10	165.22	235.64	-25.92	923.81	863.62	60.19	15.348	
8,700.00	8,478.68	8,528.14	8,515.54	34.30	30.44	165.39	244.39	-29.35	957.57	896.66	60.91	15.720	
8,800.00	8,571.95	8,623.08	8,610.01	34.86	30.79	165.50	253.21	-32.80	988.98	927.34	61.64	16.044	
8,900.00	8,666.11	8,718.77	8,705.21	35.41	31.15	165.57	262.10	-36.27	1,018.01	955.64	62.38	16.320	
9,000.00	8,761.11	8,815.14	8,801.11	35.94	31.50	165.59	271.05	-39.78	1,044.66	981.54	63.12	16.551	
9,100.00	8,856.88	8,912.14	8,897.62	36.45	31.86	165.57	280.06	-43.30	1,068.89	1,005.03	63.86	16.737	
9,200.00	8,953.36	9,009.69	8,994.69	36.94	32.22	165.51	289.12	-46.85	1,090.71	1,026.10	64.61	16.882	
9,300.00	9,050.48	9,107.74	9,092.24	37.41	32.58	165.41	298.23	-50.41	1,110.09	1,044.74	65.36	16.985	
9,400.00	9,148.19	9,206.21	9,190.23	37.87	32.95	165.28	307.38	-53.99	1,127.04	1,060.94	66.10	17.049	
9,500.00	9,246.41	9,305.05	9,288.58	38.30	33.31	165.11	316.56	-57.59	1,141.55	1,074.70	66.85	17.076	
9,600.00	9,345.08	9,400.00	9,383.06	38.72	33.66	164.91	325.32	-61.01	1,153.64	1,086.07	67.58	17.072	
9,700.00	9,444.13	9,494.57	9,477.26	39.11	34.01	164.74	332.96	-64.00	1,163.73	1,095.44	68.29	17.041	
9,800.00	9,543.50	9,587.33	9,569.80	39.49	34.35	164.61	339.04	-66.38	1,171.96	1,102.97	68.98	16.989	
9,900.00	9,643.13	9,680.25	9,662.58	39.85	34.69	164.51	343.73	-68.22	1,178.29	1,108.63	69.67	16.913	
10,000.00	9,742.95	9,773.29	9,755.55	40.19	35.02	164.44	347.03	-69.51	1,182.74	1,112.40	70.34	16.814	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	9,842.89	9,866.41	9,848.65	40.51	35.36	164.40	348.92	-70.25	1,185.29	1,114.29	71.00	16.694	
10,184.16	9,927.04	9,944.81	9,927.04	40.78	35.64	89.42	349.42	-70.45	1,185.96	1,114.41	71.55	16.575	
10,200.00	9,942.88	9,960.67	9,942.91	40.82	35.69	-90.18	349.20	-70.44	1,185.96	1,114.31	71.65	16.551	
10,250.00	9,992.73	10,010.77	9,992.86	40.96	35.84	-90.18	345.63	-70.41	1,185.97	1,114.01	71.96	16.481	
10,300.00	10,042.09	10,060.87	10,042.31	41.09	35.99	-90.17	337.71	-70.34	1,185.99	1,113.74	72.25	16.415	
10,350.00	10,090.57	10,110.96	10,090.88	41.21	36.13	-90.17	325.50	-70.23	1,186.01	1,113.49	72.53	16.353	
10,400.00	10,137.81	10,161.05	10,138.19	41.32	36.26	-90.17	309.10	-70.08	1,186.05	1,113.27	72.78	16.296	
10,450.00	10,183.44	10,211.14	10,183.89	41.42	36.38	-90.16	288.63	-69.89	1,186.09	1,113.07	73.02	16.242	
10,500.00	10,227.12	10,261.22	10,227.62	41.51	36.49	-90.15	264.25	-69.66	1,186.15	1,112.89	73.25	16.193	
10,550.00	10,268.52	10,311.30	10,269.05	41.59	36.60	-90.14	236.15	-69.41	1,186.21	1,112.74	73.46	16.147	
10,600.00	10,307.32	10,361.38	10,307.87	41.66	36.69	-90.13	204.54	-69.12	1,186.28	1,112.61	73.67	16.103	
10,650.00	10,343.23	10,411.45	10,343.78	41.71	36.78	-90.12	169.67	-68.80	1,186.35	1,112.49	73.86	16.063	
10,700.00	10,375.96	10,461.51	10,376.50	41.75	36.87	-90.11	131.81	-68.45	1,186.43	1,112.39	74.04	16.024	
10,750.00	10,405.28	10,511.57	10,405.79	41.78	36.95	-90.10	91.24	-68.08	1,186.52	1,112.30	74.22	15.986	
10,800.00	10,430.96	10,561.62	10,431.43	41.80	37.03	-90.08	48.27	-67.69	1,186.62	1,112.22	74.40	15.950	
10,850.00	10,452.81	10,611.66	10,453.21	41.80	37.11	-90.07	3.24	-67.27	1,186.71	1,112.15	74.57	15.914	
10,900.00	10,470.65	10,661.69	10,470.99	41.81	37.19	-90.06	-43.51	-66.84	1,186.82	1,112.07	74.74	15.879	
10,950.00	10,484.36	10,711.72	10,484.61	41.80	37.28	-90.04	-91.63	-66.40	1,186.92	1,112.01	74.91	15.844	
11,000.00	10,493.83	10,761.74	10,493.99	41.79	37.36	-90.03	-140.74	-65.95	1,187.03	1,111.94	75.09	15.809	
11,050.00	10,498.98	10,811.75	10,499.04	41.78	37.45	-90.01	-190.48	-65.50	1,187.14	1,111.88	75.26	15.774	
11,084.16	10,500.00	10,845.91	10,500.00	41.77	37.51	-90.00	-224.62	-65.18	1,187.21	1,111.83	75.38	15.751	
11,100.00	10,500.00	10,861.75	10,500.00	41.77	37.54	-90.00	-240.46	-65.04	1,187.24	1,111.81	75.43	15.739	
11,200.00	10,500.00	10,961.75	10,500.00	41.76	37.75	-90.00	-340.45	-64.12	1,187.46	1,111.61	75.86	15.654	
11,300.00	10,500.00	11,061.75	10,500.00	41.78	38.02	-90.00	-440.45	-63.21	1,187.68	1,111.30	76.38	15.549	
11,400.00	10,500.00	11,161.75	10,500.00	41.82	38.33	-90.00	-540.44	-62.29	1,187.90	1,110.89	77.01	15.425	
11,500.00	10,500.00	11,261.75	10,500.00	41.91	38.70	-90.00	-640.44	-61.37	1,188.12	1,110.38	77.74	15.283	
11,600.00	10,500.00	11,361.75	10,500.00	42.04	39.12	-90.00	-740.43	-60.46	1,188.33	1,109.76	78.57	15.124	
11,700.00	10,500.00	11,461.75	10,500.00	42.23	39.58	-90.00	-840.43	-59.54	1,188.55	1,109.06	79.50	14.951	
11,800.00	10,500.00	11,561.75	10,500.00	42.50	40.10	-90.00	-940.43	-58.63	1,188.77	1,108.26	80.51	14.765	
11,900.00	10,500.00	11,661.75	10,500.00	42.85	40.65	-90.00	-1,040.42	-57.71	1,188.99	1,107.37	81.62	14.567	
12,000.00	10,500.00	11,761.75	10,500.00	43.28	41.25	-90.00	-1,140.42	-56.79	1,189.21	1,106.40	82.81	14.360	
12,100.00	10,500.00	11,861.75	10,500.00	43.79	41.89	-90.00	-1,240.41	-55.88	1,189.43	1,105.34	84.08	14.146	
12,200.00	10,500.00	11,961.75	10,500.00	44.36	42.57	-90.00	-1,340.41	-54.96	1,189.64	1,104.21	85.44	13.924	
12,300.00	10,500.00	12,061.75	10,500.00	45.00	43.28	-90.00	-1,440.40	-54.04	1,189.86	1,103.00	86.86	13.698	
12,400.00	10,500.00	12,161.75	10,500.00	45.68	44.03	-90.00	-1,540.40	-53.13	1,190.08	1,101.72	88.36	13.469	
12,500.00	10,500.00	12,261.75	10,500.00	46.41	44.82	-90.00	-1,640.39	-52.21	1,190.30	1,100.38	89.92	13.237	
12,600.00	10,500.00	12,361.75	10,500.00	47.18	45.63	-90.00	-1,740.39	-51.30	1,190.52	1,098.97	91.55	13.004	
12,700.00	10,500.00	12,461.75	10,500.00	47.99	46.48	-90.00	-1,840.39	-50.38	1,190.73	1,097.50	93.24	12.771	
12,800.00	10,500.00	12,561.75	10,500.00	48.83	47.36	-90.00	-1,940.38	-49.46	1,190.95	1,095.97	94.98	12.539	
12,900.00	10,500.00	12,661.75	10,500.00	49.70	48.26	-90.00	-2,040.38	-48.55	1,191.17	1,094.39	96.78	12.308	
13,000.00	10,500.00	12,761.75	10,500.00	50.60	49.19	-90.00	-2,140.37	-47.63	1,191.39	1,092.76	98.63	12.079	
13,100.00	10,500.00	12,861.74	10,500.00	51.52	50.14	-90.00	-2,240.37	-46.71	1,191.61	1,091.07	100.53	11.853	
13,200.00	10,500.00	12,961.74	10,500.00	52.47	51.11	-90.00	-2,340.36	-45.80	1,191.82	1,089.35	102.48	11.630	
13,300.00	10,500.00	13,061.74	10,500.00	53.44	52.11	-90.00	-2,440.36	-44.88	1,192.04	1,087.58	104.46	11.411	
13,400.00	10,500.00	13,161.74	10,500.00	54.44	53.13	-90.00	-2,540.35	-43.96	1,192.26	1,085.77	106.49	11.196	
13,500.00	10,500.00	13,261.74	10,500.00	55.45	54.16	-90.00	-2,640.35	-43.05	1,192.48	1,083.92	108.56	10.985	
13,600.00	10,500.00	13,361.74	10,500.00	56.48	55.22	-90.00	-2,740.35	-42.13	1,192.70	1,082.03	110.66	10.778	
13,700.00	10,500.00	13,461.74	10,500.00	57.53	56.29	-90.00	-2,840.34	-41.22	1,192.91	1,080.11	112.80	10.576	
13,800.00	10,500.00	13,561.74	10,500.00	58.60	57.37	-90.00	-2,940.34	-40.30	1,193.13	1,078.16	114.97	10.378	
13,900.00	10,500.00	13,661.74	10,500.00	59.68	58.48	-90.00	-3,040.33	-39.38	1,193.35	1,076.18	117.17	10.185	
14,000.00	10,500.00	13,761.74	10,500.00	60.78	59.59	-90.00	-3,140.33	-38.47	1,193.57	1,074.17	119.40	9.996	
14,100.00	10,500.00	13,861.74	10,500.00	61.89	60.72	-90.00	-3,240.32	-37.55	1,193.79	1,072.13	121.65	9.813	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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_MWVD+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
14,200.00	10,500.00	13,961.74	10,500.00	63.01	61.87	-90.00	-3,340.32	-36.63	1,194.00	1,070.07	123.94	9.634	
14,300.00	10,500.00	14,061.74	10,500.00	64.15	63.02	-90.00	-3,440.31	-35.72	1,194.22	1,067.98	126.24	9.460	
14,400.00	10,500.00	14,161.74	10,500.00	65.30	64.19	-90.00	-3,540.31	-34.80	1,194.44	1,065.87	128.57	9.290	
14,500.00	10,500.00	14,261.74	10,500.00	66.46	65.37	-90.00	-3,640.31	-33.89	1,194.66	1,063.73	130.92	9.125	
14,600.00	10,500.00	14,361.74	10,500.00	67.63	66.55	-90.00	-3,740.30	-32.97	1,194.88	1,061.58	133.30	8.964	
14,700.00	10,500.00	14,461.74	10,500.00	68.81	67.75	-90.00	-3,840.30	-32.05	1,195.09	1,059.41	135.69	8.808	
14,800.00	10,500.00	14,561.74	10,500.00	70.00	68.96	-90.00	-3,940.29	-31.14	1,195.31	1,057.21	138.10	8.656	
14,900.00	10,500.00	14,661.74	10,500.00	71.20	70.17	-90.00	-4,040.29	-30.22	1,195.53	1,055.00	140.53	8.508	
15,000.00	10,500.00	14,761.74	10,500.00	72.41	71.40	-90.00	-4,140.28	-29.30	1,195.75	1,052.78	142.97	8.364	
15,100.00	10,500.00	14,861.74	10,500.00	73.63	72.63	-90.00	-4,240.28	-28.39	1,195.97	1,050.54	145.43	8.224	
15,200.00	10,500.00	14,961.74	10,500.00	74.85	73.87	-90.00	-4,340.28	-27.47	1,196.19	1,048.28	147.91	8.087	
15,300.00	10,500.00	15,061.74	10,500.00	76.09	75.12	-90.00	-4,440.27	-26.56	1,196.40	1,046.01	150.40	7.955	
15,400.00	10,500.00	15,161.74	10,500.00	77.33	76.37	-90.00	-4,540.27	-25.64	1,196.62	1,043.72	152.90	7.826	
15,500.00	10,500.00	15,261.74	10,500.00	78.57	77.63	-90.00	-4,640.26	-24.72	1,196.84	1,041.42	155.42	7.701	
15,600.00	10,500.00	15,361.74	10,500.00	79.82	78.90	-90.00	-4,740.26	-23.81	1,197.06	1,039.11	157.95	7.579	
15,700.00	10,500.00	15,461.74	10,500.00	81.08	80.17	-90.00	-4,840.25	-22.89	1,197.28	1,036.79	160.49	7.460	
15,800.00	10,500.00	15,561.74	10,500.00	82.35	81.44	-90.00	-4,940.25	-21.97	1,197.49	1,034.46	163.04	7.345	
15,900.00	10,500.00	15,661.74	10,500.00	83.62	82.73	-90.00	-5,040.24	-21.06	1,197.71	1,032.11	165.60	7.233	
16,000.00	10,500.00	15,761.74	10,500.00	84.89	84.01	-90.00	-5,140.24	-20.14	1,197.93	1,029.76	168.17	7.123	
16,100.00	10,500.00	15,861.74	10,500.00	86.17	85.31	-90.00	-5,240.24	-19.22	1,198.15	1,027.39	170.76	7.017	
16,200.00	10,500.00	15,961.74	10,500.00	87.46	86.60	-90.00	-5,340.23	-18.31	1,198.37	1,025.02	173.35	6.913	
16,300.00	10,500.00	16,061.74	10,500.00	88.75	87.91	-90.00	-5,440.23	-17.39	1,198.58	1,022.64	175.95	6.812	
16,400.00	10,500.00	16,161.74	10,500.00	90.04	89.21	-90.00	-5,540.22	-16.48	1,198.80	1,020.24	178.56	6.714	
16,500.00	10,500.00	16,261.74	10,500.00	91.34	90.52	-90.00	-5,640.22	-15.56	1,199.02	1,017.85	181.17	6.618	
16,600.00	10,500.00	16,361.74	10,500.00	92.65	91.84	-90.00	-5,740.21	-14.64	1,199.24	1,015.44	183.80	6.525	
16,700.00	10,500.00	16,461.74	10,500.00	93.95	93.15	-90.00	-5,840.21	-13.73	1,199.46	1,013.02	186.43	6.434	
16,800.00	10,500.00	16,561.74	10,500.00	95.26	94.47	-90.00	-5,940.20	-12.81	1,199.67	1,010.60	189.07	6.345	
16,900.00	10,500.00	16,661.74	10,500.00	96.58	95.80	-90.00	-6,040.20	-11.89	1,199.89	1,008.17	191.72	6.259	
17,000.00	10,500.00	16,761.74	10,500.00	97.90	97.13	-90.00	-6,140.20	-10.98	1,200.11	1,005.74	194.37	6.174	
17,100.00	10,500.00	16,861.74	10,500.00	99.22	98.46	-90.00	-6,240.19	-10.06	1,200.33	1,003.30	197.03	6.092	
17,200.00	10,500.00	16,961.74	10,500.00	100.54	99.79	-90.00	-6,340.19	-9.15	1,200.55	1,000.85	199.70	6.012	
17,300.00	10,500.00	17,061.74	10,500.00	101.87	101.13	-90.00	-6,440.18	-8.23	1,200.76	998.40	202.37	5.934	
17,400.00	10,500.00	17,161.73	10,500.00	103.20	102.47	-90.00	-6,540.18	-7.31	1,200.98	995.94	205.05	5.857	
17,500.00	10,500.00	17,261.73	10,500.00	104.53	103.81	-90.00	-6,640.17	-6.40	1,201.20	993.47	207.73	5.783	
17,600.00	10,500.00	17,361.73	10,500.00	105.87	105.16	-90.00	-6,740.17	-5.48	1,201.42	991.00	210.42	5.710	
17,700.00	10,500.00	17,461.73	10,500.00	107.21	106.50	-90.00	-6,840.16	-4.56	1,201.64	988.53	213.11	5.639	
17,800.00	10,500.00	17,561.73	10,500.00	108.55	107.85	-90.00	-6,940.16	-3.65	1,201.85	986.05	215.81	5.569	
17,900.00	10,500.00	17,661.73	10,500.00	109.89	109.20	-90.00	-7,040.16	-2.73	1,202.07	983.56	218.51	5.501	
18,000.00	10,500.00	17,761.73	10,500.00	111.24	110.56	-90.00	-7,140.15	-1.82	1,202.29	981.08	221.21	5.435	
18,100.00	10,500.00	17,861.73	10,500.00	112.59	111.92	-90.00	-7,240.15	-0.90	1,202.51	978.58	223.93	5.370	
18,200.00	10,500.00	17,961.73	10,500.00	113.94	113.27	-90.00	-7,340.14	0.02	1,202.73	976.09	226.64	5.307	
18,280.05	10,500.00	18,040.57	10,500.00	115.02	114.35	-90.00	-7,418.98	0.74	1,202.90	974.11	228.79	5.258	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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: 0-												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	-76.59	673.11	-2,824.10	2,903.26				
100.00	100.00	82.10	82.10	0.13	1.07	-76.59	673.11	-2,824.10	2,903.20	2,902.00	1.21	2,406.081	
200.00	200.00	182.10	182.10	0.49	1.62	-76.59	673.11	-2,824.10	2,903.20	2,901.09	2.11	1,375.828	
300.00	300.00	282.10	282.10	0.85	2.22	-76.59	673.11	-2,824.10	2,903.20	2,900.14	3.07	946.133	
400.00	400.00	382.10	382.10	1.21	2.73	-76.59	673.11	-2,824.10	2,903.20	2,899.27	3.94	737.125	
500.00	500.00	482.10	482.10	1.57	3.20	-76.59	673.11	-2,824.10	2,903.20	2,898.44	4.77	609.217	
600.00	600.00	582.10	582.10	1.93	3.64	-76.59	673.11	-2,824.10	2,903.20	2,897.64	5.57	521.502	
700.00	700.00	682.10	682.10	2.29	4.07	-76.59	673.11	-2,824.10	2,903.20	2,896.85	6.35	457.075	
800.00	800.00	782.10	782.10	2.64	4.48	-76.59	673.11	-2,824.10	2,903.20	2,896.08	7.12	407.499	
900.00	900.00	882.10	882.10	3.00	4.89	-76.59	673.11	-2,824.10	2,903.20	2,895.32	7.89	368.038	
1,000.00	1,000.00	982.10	982.10	3.36	5.28	-76.59	673.11	-2,824.10	2,903.20	2,894.56	8.65	335.809	
1,100.00	1,100.00	1,082.10	1,082.10	3.72	5.68	-76.59	673.11	-2,824.10	2,903.20	2,893.81	9.40	308.947	
1,200.00	1,200.00	1,182.10	1,182.10	4.08	6.07	-76.59	673.11	-2,824.10	2,903.20	2,893.06	10.14	286.185	
1,300.00	1,300.00	1,282.10	1,282.10	4.44	6.45	-76.59	673.11	-2,824.10	2,903.20	2,892.32	10.89	266.634	
1,400.00	1,400.00	1,382.10	1,382.10	4.79	6.83	-76.59	673.11	-2,824.10	2,903.20	2,891.57	11.63	249.647	
1,500.00	1,500.00	1,482.10	1,482.10	5.15	7.21	-76.59	673.11	-2,824.10	2,903.20	2,890.84	12.37	234.741	
1,600.00	1,600.00	1,582.10	1,582.10	5.51	7.59	-76.59	673.11	-2,824.10	2,903.20	2,890.10	13.10	221.550	
1,700.00	1,700.00	1,682.10	1,682.10	5.87	7.97	-76.59	673.11	-2,824.10	2,903.20	2,889.37	13.84	209.790	
1,800.00	1,800.00	1,782.10	1,782.10	6.23	8.34	-76.59	673.11	-2,824.10	2,903.20	2,888.63	14.57	199.237	
1,900.00	1,900.00	1,882.10	1,882.10	6.59	8.72	-76.59	673.11	-2,824.10	2,903.20	2,887.90	15.30	189.711	
2,000.00	2,000.00	1,982.10	1,982.10	6.95	9.09	-76.59	673.11	-2,824.10	2,903.20	2,887.17	16.03	181.068	
2,100.00	2,100.00	2,165.13	2,165.10	7.30	9.45	-76.59	672.84	-2,821.73	2,902.03	2,885.28	16.75	173.300	
2,200.00	2,200.00	2,365.86	2,365.61	7.66	9.75	-76.57	671.80	-2,812.49	2,897.43	2,880.06	17.37	166.791	
2,300.00	2,300.00	2,565.69	2,564.78	8.02	10.14	-76.53	669.99	-2,796.37	2,889.37	2,871.29	18.08	159.825	
2,400.00	2,400.00	2,764.16	2,761.90	8.38	10.63	-76.47	667.42	-2,773.53	2,877.88	2,859.01	18.87	152.536	
2,500.00	2,500.00	2,960.80	2,956.30	8.74	11.22	-76.40	664.12	-2,744.23	2,862.99	2,843.26	19.73	145.097	
2,600.00	2,600.00	3,155.18	3,147.37	9.10	11.88	-76.30	660.13	-2,708.77	2,844.77	2,824.10	20.66	137.662	
2,700.00	2,700.00	3,346.90	3,334.53	9.45	12.61	-76.19	655.49	-2,667.50	2,823.27	2,801.62	21.66	130.375	
2,800.00	2,800.00	3,535.60	3,517.29	9.81	13.40	-76.07	650.24	-2,620.83	2,798.58	2,775.89	22.69	123.334	
2,900.00	2,900.00	3,720.95	3,695.19	10.17	14.22	-75.92	644.43	-2,569.19	2,770.76	2,747.01	23.75	116.657	
3,000.00	3,000.00	3,825.13	3,794.62	10.53	14.68	-75.83	640.95	-2,538.27	2,741.13	2,716.56	24.57	111.572	
3,100.00	3,100.00	3,920.56	3,885.68	10.89	15.14	-75.74	637.76	-2,509.92	2,711.49	2,686.10	25.39	106.779	
3,200.00	3,200.00	4,015.99	3,976.75	11.25	15.61	-75.66	634.57	-2,481.58	2,681.86	2,655.62	26.24	102.222	
3,300.00	3,300.00	4,111.42	4,067.81	11.61	16.09	-75.57	631.38	-2,453.23	2,652.23	2,625.15	27.09	97.915	
3,400.00	3,400.00	4,206.85	4,158.88	11.96	16.57	-75.48	628.19	-2,424.89	2,622.61	2,594.66	27.95	93.843	
3,500.00	3,500.00	4,302.27	4,249.95	12.32	17.07	-75.38	625.00	-2,396.54	2,593.00	2,564.18	28.81	89.991	
3,600.00	3,600.00	4,397.70	4,341.01	12.68	17.57	-75.29	621.81	-2,368.20	2,563.39	2,533.70	29.69	86.344	
3,700.00	3,700.00	4,493.13	4,432.08	13.04	18.08	-75.19	618.62	-2,339.85	2,533.78	2,503.22	30.57	82.889	
3,800.00	3,800.00	4,588.56	4,523.14	13.40	18.59	-75.09	615.43	-2,311.51	2,504.19	2,472.73	31.45	79.613	
3,900.00	3,900.00	4,683.99	4,614.21	13.76	19.11	-74.99	612.24	-2,283.16	2,474.60	2,442.25	32.35	76.505	
4,000.00	4,000.00	4,779.41	4,705.27	14.11	19.64	-74.88	609.05	-2,254.82	2,445.02	2,411.78	33.24	73.553	
4,100.00	4,100.00	4,874.84	4,796.34	14.47	20.17	-74.78	605.86	-2,226.47	2,415.45	2,381.30	34.14	70.748	
4,200.00	4,200.00	4,970.27	4,887.40	14.83	20.70	-74.67	602.68	-2,198.12	2,385.88	2,350.83	35.05	68.079	
4,300.00	4,300.00	5,065.70	4,978.47	15.19	21.24	-74.56	599.49	-2,169.78	2,356.32	2,320.37	35.95	65.539	
4,400.00	4,400.00	5,161.13	5,069.53	15.55	21.78	-74.44	596.30	-2,141.43	2,326.77	2,289.91	36.86	63.118	
4,500.00	4,500.00	5,256.56	5,160.60	15.91	22.32	-74.32	593.11	-2,113.09	2,297.23	2,259.46	37.78	60.809	
4,600.00	4,600.00	5,351.98	5,251.67	16.27	22.87	-74.20	589.92	-2,084.74	2,267.70	2,229.01	38.69	58.606	
4,700.00	4,700.00	5,447.41	5,342.73	16.62	23.42	-74.08	586.73	-2,056.40	2,238.18	2,198.57	39.61	56.501	
4,800.00	4,800.00	5,542.84	5,433.80	16.98	23.97	-73.95	583.54	-2,028.05	2,208.67	2,168.14	40.53	54.489	
4,900.00	4,900.00	5,638.27	5,524.86	17.34	24.53	-73.82	580.35	-1,999.71	2,179.17	2,137.71	41.46	52.564	
5,000.00	5,000.00	5,733.70	5,615.93	17.70	25.09	-73.68	577.16	-1,971.36	2,149.68	2,107.30	42.38	50.721	
5,100.00	5,100.00	5,829.13	5,706.99	18.06	25.65	-73.54	573.97	-1,943.02	2,120.20	2,076.89	43.31	48.955	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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: 0-												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	
5,200.00	5,200.00	5,924.55	5,798.06	18.42	26.21	-73.40	570.78	-1,914.67	2,090.73	2,046.49	44.24	47.261	
5,300.00	5,300.00	6,019.98	5,889.12	18.77	26.77	-73.25	567.59	-1,886.33	2,061.28	2,016.11	45.17	45.636	
5,400.00	5,400.00	6,115.41	5,980.19	19.13	27.34	-73.10	564.40	-1,857.98	2,031.83	1,985.74	46.10	44.076	
5,500.00	5,500.00	6,210.84	6,071.25	19.49	27.91	-72.95	561.21	-1,829.64	2,002.41	1,955.37	47.03	42.577	
5,600.00	5,600.00	6,306.27	6,162.32	19.85	28.48	-72.79	558.02	-1,801.29	1,972.99	1,925.03	47.96	41.135	
5,620.00	5,620.00	6,325.35	6,180.53	19.92	28.59	-72.75	557.39	-1,795.62	1,967.11	1,918.96	48.15	40.853	
5,700.00	5,699.99	6,401.45	6,253.15	20.20	29.05	2.36	554.84	-1,773.02	1,942.81	1,893.91	48.89	39.737	
5,800.00	5,799.94	6,495.83	6,343.22	20.55	29.61	2.56	551.69	-1,744.98	1,910.24	1,860.44	49.81	38.354	
5,900.00	5,899.76	6,589.34	6,432.45	20.90	30.18	2.76	548.56	-1,717.21	1,875.28	1,824.57	50.71	36.978	
6,000.00	5,999.40	6,681.92	6,520.80	21.24	30.74	2.99	545.47	-1,689.71	1,837.94	1,786.32	51.61	35.610	
6,100.00	6,098.78	6,773.50	6,608.19	21.59	31.29	3.23	542.41	-1,662.51	1,798.24	1,745.74	52.50	34.250	
6,200.00	6,197.85	6,864.02	6,694.57	21.95	31.84	3.50	539.38	-1,635.62	1,756.23	1,702.84	53.38	32.898	
6,300.00	6,296.54	6,953.42	6,779.89	22.30	32.38	3.78	536.40	-1,609.06	1,711.92	1,657.66	54.25	31.554	
6,400.00	6,394.78	7,041.65	6,864.09	22.66	32.91	4.10	533.45	-1,582.86	1,665.35	1,610.24	55.11	30.217	
6,500.00	6,492.50	7,128.65	6,947.10	23.02	33.44	4.44	530.54	-1,557.02	1,616.55	1,560.59	55.96	28.887	
6,600.00	6,589.65	7,214.35	7,028.89	23.39	33.97	4.82	527.67	-1,531.56	1,565.57	1,508.77	56.80	27.565	
6,700.00	6,686.16	7,298.71	7,109.39	23.76	34.48	5.24	524.86	-1,506.50	1,512.43	1,454.81	57.62	26.250	
6,800.00	6,781.96	7,381.66	7,188.54	24.14	34.99	5.71	522.08	-1,481.86	1,457.18	1,398.75	58.42	24.942	
6,900.00	6,876.99	7,463.15	7,266.31	24.53	35.49	6.23	519.36	-1,457.66	1,399.86	1,340.64	59.22	23.640	
7,000.00	6,971.19	7,538.81	7,338.53	24.93	35.95	6.80	516.83	-1,435.21	1,340.56	1,280.57	59.98	22.349	
7,100.00	7,064.49	7,600.00	7,397.07	25.35	36.31	7.33	514.85	-1,417.54	1,279.93	1,219.21	60.73	21.077	
7,200.00	7,156.84	7,667.88	7,462.24	25.78	36.72	7.98	512.72	-1,398.66	1,218.21	1,156.74	61.46	19.820	
7,300.00	7,248.17	7,732.16	7,524.15	26.23	37.11	8.68	510.79	-1,381.50	1,155.42	1,093.24	62.18	18.581	
7,400.00	7,338.43	7,800.00	7,589.70	26.69	37.52	9.50	508.84	-1,364.13	1,091.60	1,028.71	62.89	17.358	
7,500.00	7,427.55	7,860.16	7,648.00	27.18	37.88	10.36	507.18	-1,349.37	1,026.75	963.18	63.57	16.152	
7,600.00	7,515.47	7,923.86	7,709.90	27.70	38.26	11.39	505.49	-1,334.41	960.92	896.69	64.23	14.960	
7,700.00	7,602.13	7,987.36	7,771.76	28.24	38.63	12.58	503.89	-1,320.18	894.16	829.28	64.87	13.783	
7,800.00	7,687.49	8,050.63	7,833.56	28.80	39.00	13.98	502.37	-1,306.68	826.50	761.02	65.49	12.621	
7,834.82	7,716.89	8,072.61	7,855.06	29.01	39.13	14.52	501.86	-1,302.15	802.75	737.05	65.70	12.219	
7,900.00	7,771.77	8,114.01	7,895.60	29.40	39.37	15.39	500.93	-1,293.83	758.41	692.34	66.08	11.478	
7,969.34	7,830.15	8,158.69	7,939.43	29.83	39.63	16.41	499.95	-1,285.19	711.75	645.28	66.47	10.708	
8,000.00	7,856.03	8,178.74	7,959.11	30.02	39.75	16.78	499.53	-1,281.42	691.38	624.74	66.64	10.374	
8,100.00	7,941.33	8,246.05	8,025.30	30.65	40.13	18.14	498.16	-1,269.27	626.96	559.76	67.20	9.330	
8,200.00	8,027.94	8,316.30	8,094.53	31.27	40.53	19.75	496.83	-1,257.41	565.78	498.04	67.74	8.352	
8,300.00	8,115.81	8,389.44	8,166.76	31.90	40.93	21.64	495.54	-1,245.97	508.06	439.81	68.25	7.444	
8,400.00	8,204.88	8,465.41	8,241.93	32.51	41.35	23.90	494.31	-1,235.05	454.05	385.33	68.72	6.608	
8,500.00	8,295.09	8,544.14	8,319.98	33.12	41.77	26.57	493.16	-1,224.78	404.00	334.88	69.12	5.845	
8,600.00	8,386.38	8,625.54	8,400.81	33.72	42.20	29.75	492.09	-1,215.28	358.20	288.76	69.44	5.159	
8,700.00	8,478.68	8,709.49	8,484.32	34.30	42.64	33.52	491.12	-1,206.68	316.96	247.32	69.65	4.551	
8,800.00	8,571.95	8,795.87	8,570.36	34.86	43.08	37.96	490.27	-1,199.11	280.61	210.88	69.73	4.024	
8,900.00	8,666.11	8,884.54	8,658.79	35.41	43.51	43.11	489.54	-1,192.67	249.45	179.78	69.67	3.580	
9,000.00	8,761.11	8,975.33	8,749.43	35.94	43.94	48.96	488.96	-1,187.49	223.70	154.19	69.51	3.218	
9,100.00	8,856.88	9,068.07	8,842.09	36.45	44.35	55.37	488.53	-1,183.67	203.41	134.08	69.33	2.934	
9,200.00	8,953.36	9,162.56	8,936.55	36.94	44.74	62.10	488.27	-1,181.32	188.34	119.08	69.27	2.719	
9,300.00	9,050.48	9,258.60	9,032.59	37.41	45.02	68.74	488.18	-1,180.51	177.93	108.54	69.39	2.564	
9,400.00	9,148.19	9,356.30	9,130.29	37.87	45.09	75.16	488.18	-1,180.51	171.18	101.50	69.68	2.457	
9,435.70	9,183.19	9,383.94	9,157.91	38.02	45.10	76.90	488.72	-1,180.51	170.19	100.38	69.80	2.438 CC, ES, SF	
9,500.00	9,246.41	9,432.65	9,206.43	38.30	45.13	79.78	492.90	-1,180.54	173.36	103.31	70.05	2.475	
9,600.00	9,345.08	9,507.04	9,279.39	38.72	45.16	83.26	507.18	-1,180.63	190.25	120.04	70.21	2.710	
9,700.00	9,444.13	9,577.55	9,346.27	39.11	45.18	85.32	529.33	-1,180.76	220.08	150.31	69.77	3.154	
9,800.00	9,543.50	9,650.00	9,411.64	39.49	45.21	86.29	560.47	-1,180.95	261.16	191.81	69.34	3.766	
9,900.00	9,643.13	9,700.00	9,454.22	39.85	45.23	86.73	586.66	-1,181.11	311.37	244.17	67.20	4.633	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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: 0-												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	
10,000.00	9,742.95	9,750.00	9,494.35	40.19	45.25	86.99	616.45	-1,181.29	369.75	304.35	65.40	5.653	
10,100.00	9,842.89	9,800.00	9,531.73	40.51	45.27	87.15	649.64	-1,181.50	434.83	370.78	64.05	6.789	
10,184.16	9,927.04	9,829.25	9,552.21	40.78	45.29	12.64	670.52	-1,181.62	493.88	431.53	62.35	7.921	
10,200.00	9,942.88	9,834.94	9,556.06	40.82	45.29	-166.73	674.70	-1,181.65	505.53	443.44	62.09	8.141	
10,250.00	9,992.73	9,850.00	9,566.08	40.96	45.30	-165.71	685.95	-1,181.72	544.75	483.45	61.30	8.887	
10,300.00	10,042.09	9,863.95	9,575.08	41.09	45.31	-164.21	696.60	-1,181.78	587.16	526.43	60.74	9.667	
10,350.00	10,090.57	9,874.19	9,581.53	41.21	45.31	-161.77	704.56	-1,181.83	632.13	571.90	60.24	10.494	
10,400.00	10,137.81	9,881.82	9,586.23	41.32	45.31	-157.65	710.56	-1,181.87	679.06	619.21	59.86	11.345	
10,450.00	10,183.44	9,900.00	9,597.13	41.42	45.32	-152.17	725.12	-1,181.96	727.66	667.40	60.26	12.075	
10,500.00	10,227.12	9,900.00	9,597.13	41.51	45.32	-136.59	725.12	-1,181.96	776.79	716.87	59.92	12.964	
10,550.00	10,268.52	9,900.00	9,597.13	41.59	45.32	-98.87	725.12	-1,181.96	826.45	766.68	59.77	13.826	
10,600.00	10,307.32	9,900.00	9,597.13	41.66	45.32	-51.24	725.12	-1,181.96	876.21	816.41	59.80	14.651	
10,650.00	10,343.23	9,900.00	9,597.13	41.71	45.32	-28.89	725.12	-1,181.96	925.70	865.72	59.98	15.434	
10,700.00	10,375.96	9,884.01	9,587.57	41.75	45.32	-18.07	712.30	-1,181.88	974.27	914.65	59.61	16.343	
10,750.00	10,405.28	9,878.87	9,584.42	41.78	45.31	-13.36	708.24	-1,181.85	1,022.09	962.26	59.83	17.083	
10,800.00	10,430.96	9,872.59	9,580.53	41.80	45.31	-10.51	703.31	-1,181.82	1,068.71	1,008.60	60.11	17.779	
10,850.00	10,452.81	9,850.00	9,566.08	41.80	45.30	-8.40	685.95	-1,181.72	1,114.17	1,054.30	59.87	18.609	
10,900.00	10,470.65	9,850.00	9,566.08	41.81	45.30	-7.23	685.95	-1,181.72	1,157.42	1,096.86	60.56	19.111	
10,950.00	10,484.36	9,850.00	9,566.08	41.80	45.30	-6.35	685.95	-1,181.72	1,198.98	1,137.69	61.30	19.560	
11,000.00	10,493.83	9,850.00	9,566.08	41.79	45.30	-5.66	685.95	-1,181.72	1,238.73	1,176.66	62.07	19.956	
11,050.00	10,498.98	9,827.93	9,551.30	41.78	45.29	-5.02	669.55	-1,181.62	1,275.93	1,213.76	62.17	20.525	
11,084.16	10,500.00	9,820.51	9,546.20	41.77	45.28	-4.71	664.17	-1,181.58	1,300.12	1,237.60	62.51	20.797	
11,100.00	10,500.00	9,800.00	9,531.73	41.77	45.27	-4.63	649.64	-1,181.50	1,311.47	1,249.32	62.15	21.103	
11,200.00	10,500.00	9,800.00	9,531.73	41.76	45.27	-4.63	649.64	-1,181.50	1,382.04	1,318.24	63.80	21.661	
11,300.00	10,500.00	9,776.46	9,514.49	41.78	45.26	-4.55	633.61	-1,181.40	1,455.40	1,390.81	64.59	22.534	
11,400.00	10,500.00	9,750.00	9,494.35	41.82	45.25	-4.46	616.45	-1,181.29	1,531.05	1,465.81	65.24	23.470	
11,500.00	10,500.00	9,750.00	9,494.35	41.91	45.25	-4.46	616.45	-1,181.29	1,608.59	1,542.16	66.43	24.215	
11,600.00	10,500.00	9,725.73	9,475.20	42.04	45.24	-4.37	601.56	-1,181.20	1,687.81	1,620.84	66.97	25.202	
11,700.00	10,500.00	9,700.00	9,454.22	42.23	45.23	-4.28	586.66	-1,181.11	1,768.84	1,701.51	67.33	26.270	
11,800.00	10,500.00	9,700.00	9,454.22	42.50	45.23	-4.28	586.66	-1,181.11	1,851.03	1,782.81	68.21	27.136	
11,900.00	10,500.00	9,700.00	9,454.22	42.85	45.23	-4.28	586.66	-1,181.11	1,934.89	1,865.90	68.99	28.046	
12,000.00	10,500.00	9,672.84	9,431.37	43.28	45.22	-4.19	571.97	-1,181.02	2,019.39	1,950.19	69.20	29.182	
12,100.00	10,500.00	9,650.00	9,411.64	43.79	45.21	-4.11	560.47	-1,180.95	2,105.37	2,035.92	69.45	30.316	
12,200.00	10,500.00	9,650.00	9,411.64	44.36	45.21	-4.11	560.47	-1,180.95	2,191.99	2,121.95	70.04	31.295	
12,300.00	10,500.00	9,650.00	9,411.64	45.00	45.21	-4.11	560.47	-1,180.95	2,279.71	2,209.13	70.58	32.301	
12,400.00	10,500.00	9,650.00	9,411.64	45.68	45.21	-4.11	560.47	-1,180.95	2,368.40	2,297.35	71.06	33.330	
12,500.00	10,500.00	9,623.53	9,388.22	46.41	45.20	-4.02	548.14	-1,180.88	2,457.21	2,386.08	71.13	34.546	
12,600.00	10,500.00	9,600.00	9,366.95	47.18	45.19	-3.95	538.09	-1,180.82	2,547.27	2,476.05	71.22	35.765	
12,700.00	10,500.00	9,600.00	9,366.95	47.99	45.19	-3.95	538.09	-1,180.82	2,637.50	2,565.89	71.61	36.831	
12,800.00	10,500.00	9,600.00	9,366.95	48.83	45.19	-3.95	538.09	-1,180.82	2,728.40	2,656.43	71.97	37.913	
12,900.00	10,500.00	9,600.00	9,366.95	49.70	45.19	-3.95	538.09	-1,180.82	2,819.92	2,747.63	72.29	39.009	
13,000.00	10,500.00	9,600.00	9,366.95	50.60	45.19	-3.95	538.09	-1,180.82	2,912.00	2,839.41	72.59	40.117	
13,100.00	10,500.00	9,600.00	9,366.95	51.52	45.19	-3.95	538.09	-1,180.82	3,004.58	2,931.72	72.86	41.237	
13,200.00	10,500.00	9,574.79	9,343.71	52.47	45.18	-3.87	528.31	-1,180.76	3,096.97	3,024.12	72.85	42.509	
13,300.00	10,500.00	9,550.00	9,320.47	53.44	45.17	-3.79	519.70	-1,180.70	3,190.50	3,117.65	72.85	43.798	
13,400.00	10,500.00	9,550.00	9,320.47	54.44	45.17	-3.79	519.70	-1,180.70	3,283.80	3,210.72	73.08	44.933	
13,500.00	10,500.00	9,550.00	9,320.47	55.45	45.17	-3.79	519.70	-1,180.70	3,377.49	3,304.19	73.30	46.076	
13,600.00	10,500.00	9,550.00	9,320.47	56.48	45.17	-3.79	519.70	-1,180.70	3,471.54	3,398.03	73.51	47.227	
13,700.00	10,500.00	9,550.00	9,320.47	57.53	45.17	-3.79	519.70	-1,180.70	3,565.91	3,492.20	73.70	48.383	
13,800.00	10,500.00	9,550.00	9,320.47	58.60	45.17	-3.79	519.70	-1,180.70	3,660.57	3,586.69	73.88	49.546	
13,900.00	10,500.00	9,550.00	9,320.47	59.68	45.17	-3.79	519.70	-1,180.70	3,755.51	3,681.46	74.05	50.713	
14,000.00	10,500.00	9,550.00	9,320.47	60.78	45.17	-3.79	519.70	-1,180.70	3,850.71	3,776.50	74.22	51.886	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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: 0-												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	
14,100.00	10,500.00	9,550.00	9,320.47	61.89	45.17	-3.79	519.70	-1,180.70	3,946.15	3,871.78	74.37	53.062	
14,200.00	10,500.00	9,550.00	9,320.47	63.01	45.17	-3.79	519.70	-1,180.70	4,041.81	3,967.29	74.51	54.242	
14,300.00	10,500.00	9,525.52	9,297.17	64.15	45.16	-3.71	512.19	-1,180.66	4,137.07	4,062.60	74.47	55.555	
14,400.00	10,500.00	9,522.10	9,293.90	65.30	45.16	-3.70	511.22	-1,180.65	4,232.95	4,158.37	74.58	56.757	
14,500.00	10,500.00	9,500.00	9,272.57	66.46	45.15	-3.64	505.42	-1,180.62	4,329.34	4,254.79	74.55	58.073	
14,600.00	10,500.00	9,500.00	9,272.57	67.63	45.15	-3.64	505.42	-1,180.62	4,425.43	4,350.75	74.68	59.259	
14,700.00	10,500.00	9,500.00	9,272.57	68.81	45.15	-3.64	505.42	-1,180.62	4,521.69	4,446.89	74.80	60.447	
14,800.00	10,500.00	9,500.00	9,272.57	70.00	45.15	-3.64	505.42	-1,180.62	4,618.11	4,543.19	74.92	61.637	
14,900.00	10,500.00	9,500.00	9,272.57	71.20	45.15	-3.64	505.42	-1,180.62	4,714.68	4,639.64	75.04	62.828	
15,000.00	10,500.00	9,500.00	9,272.57	72.41	45.15	-3.64	505.42	-1,180.62	4,811.39	4,736.24	75.15	64.021	
15,100.00	10,500.00	9,500.00	9,272.57	73.63	45.15	-3.64	505.42	-1,180.62	4,908.23	4,832.97	75.26	65.215	
15,200.00	10,500.00	9,500.00	9,272.57	74.85	45.15	-3.64	505.42	-1,180.62	5,005.19	4,929.83	75.37	66.411	
15,300.00	10,500.00	9,500.00	9,272.57	76.09	45.15	-3.64	505.42	-1,180.62	5,102.27	5,026.81	75.47	67.607	
15,400.00	10,500.00	9,500.00	9,272.57	77.33	45.15	-3.64	505.42	-1,180.62	5,199.47	5,123.90	75.57	68.803	
15,500.00	10,500.00	9,500.00	9,272.57	78.57	45.15	-3.64	505.42	-1,180.62	5,296.76	5,221.10	75.67	70.001	
15,600.00	10,500.00	9,500.00	9,272.57	79.82	45.15	-3.64	505.42	-1,180.62	5,394.16	5,318.40	75.76	71.198	
15,700.00	10,500.00	9,500.00	9,272.57	81.08	45.15	-3.64	505.42	-1,180.62	5,491.65	5,415.79	75.86	72.395	
15,800.00	10,500.00	9,500.00	9,272.57	82.35	45.15	-3.64	505.42	-1,180.62	5,589.23	5,513.28	75.95	73.593	
15,900.00	10,500.00	9,500.00	9,272.57	83.62	45.15	-3.64	505.42	-1,180.62	5,686.89	5,610.85	76.04	74.790	
16,000.00	10,500.00	9,500.00	9,272.57	84.89	45.15	-3.64	505.42	-1,180.62	5,784.63	5,708.50	76.13	75.987	
16,100.00	10,500.00	9,500.00	9,272.57	86.17	45.15	-3.64	505.42	-1,180.62	5,882.45	5,806.23	76.21	77.183	
16,200.00	10,500.00	9,500.00	9,272.57	87.46	45.15	-3.64	505.42	-1,180.62	5,980.34	5,904.04	76.30	78.379	
16,300.00	10,500.00	9,476.10	9,249.27	88.75	45.14	-3.57	500.09	-1,180.58	6,077.75	6,001.50	76.26	79.703	
16,400.00	10,500.00	9,474.37	9,247.58	90.04	45.14	-3.56	499.74	-1,180.58	6,175.70	6,099.36	76.33	80.906	
16,500.00	10,500.00	9,450.00	9,223.60	91.34	45.13	-3.50	495.38	-1,180.56	6,274.19	6,197.90	76.29	82.246	
16,600.00	10,500.00	9,450.00	9,223.60	92.65	45.13	-3.50	495.38	-1,180.56	6,372.18	6,295.81	76.37	83.437	
16,700.00	10,500.00	9,450.00	9,223.60	93.95	45.13	-3.50	495.38	-1,180.56	6,470.23	6,393.78	76.46	84.627	
16,800.00	10,500.00	9,450.00	9,223.60	95.26	45.13	-3.50	495.38	-1,180.56	6,568.35	6,491.81	76.54	85.816	
16,900.00	10,500.00	9,450.00	9,223.60	96.58	45.13	-3.50	495.38	-1,180.56	6,666.51	6,589.89	76.62	87.004	
17,000.00	10,500.00	9,450.00	9,223.60	97.90	45.13	-3.50	495.38	-1,180.56	6,764.74	6,688.03	76.71	88.191	
17,100.00	10,500.00	9,450.00	9,223.60	99.22	45.13	-3.50	495.38	-1,180.56	6,863.01	6,786.22	76.79	89.376	
17,200.00	10,500.00	9,450.00	9,223.60	100.54	45.13	-3.50	495.38	-1,180.56	6,961.33	6,884.46	76.87	90.560	
17,300.00	10,500.00	9,450.00	9,223.60	101.87	45.13	-3.50	495.38	-1,180.56	7,059.70	6,982.75	76.95	91.742	
17,400.00	10,500.00	9,450.00	9,223.60	103.20	45.13	-3.50	495.38	-1,180.56	7,158.11	7,081.08	77.03	92.923	
17,500.00	10,500.00	9,450.00	9,223.60	104.53	45.13	-3.50	495.38	-1,180.56	7,256.57	7,179.46	77.11	94.102	
17,600.00	10,500.00	9,450.00	9,223.60	105.87	45.13	-3.50	495.38	-1,180.56	7,355.07	7,277.88	77.19	95.280	
17,700.00	10,500.00	9,450.00	9,223.60	107.21	45.13	-3.50	495.38	-1,180.56	7,453.61	7,376.34	77.27	96.456	
17,800.00	10,500.00	9,450.00	9,223.60	108.55	45.13	-3.50	495.38	-1,180.56	7,552.19	7,474.83	77.36	97.630	
17,900.00	10,500.00	9,450.00	9,223.60	109.89	45.13	-3.50	495.38	-1,180.56	7,650.80	7,573.37	77.44	98.802	
18,000.00	10,500.00	9,450.00	9,223.60	111.24	45.13	-3.50	495.38	-1,180.56	7,749.45	7,671.94	77.52	99.972	
18,100.00	10,500.00	9,450.00	9,223.60	112.59	45.13	-3.50	495.38	-1,180.56	7,848.14	7,770.54	77.60	101.140	
18,200.00	10,500.00	9,450.00	9,223.60	113.94	45.13	-3.50	495.38	-1,180.56	7,946.86	7,869.18	77.68	102.306	
18,280.05	10,500.00	9,450.00	9,223.60	115.02	45.13	-3.50	495.38	-1,180.56	8,025.90	7,948.16	77.74	103.238	

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

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COMPASS 5000.15 Build 93A



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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: 132-, 1900-												Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside 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	1.00	-69.01	682.02	-1,777.37	1,903.74				
100.00	100.00	91.92	91.92	0.13	1.06	-69.02	681.69	-1,777.57	1,903.80	1,902.62	1.18	1,616.652	
200.00	200.00	199.93	199.92	0.49	1.31	-69.05	680.61	-1,778.02	1,903.84	1,902.13	1.71	1,114.526	
300.00	300.00	302.37	302.36	0.85	1.63	-69.09	679.47	-1,778.02	1,903.44	1,901.16	2.28	835.428	
400.00	400.00	400.47	400.45	1.21	1.95	-69.12	678.36	-1,778.04	1,903.06	1,900.17	2.89	658.694	
456.96	456.96	451.48	451.46	1.41	2.12	-69.13	677.86	-1,778.14	1,902.97	1,899.71	3.25	584.691	
500.00	500.00	491.58	491.55	1.57	2.26	-69.14	677.49	-1,778.33	1,903.01	1,899.48	3.54	537.853	
600.00	600.00	604.73	604.70	1.93	2.65	-69.17	676.51	-1,778.39	1,902.75	1,898.50	4.25	448.076	
700.00	700.00	701.75	701.71	2.29	2.99	-69.20	675.46	-1,778.22	1,902.20	1,897.30	4.91	387.597	
759.04	759.04	753.57	753.54	2.50	3.17	-69.21	675.07	-1,778.27	1,902.09	1,896.80	5.29	359.250	
800.00	800.00	793.11	793.07	2.64	3.31	-69.22	674.86	-1,778.38	1,902.12	1,896.53	5.58	340.601	
900.00	900.00	892.57	892.53	3.00	3.67	-69.25	673.91	-1,778.82	1,902.20	1,895.89	6.31	301.382	
1,000.00	1,000.00	989.03	988.98	3.36	4.01	-69.28	673.01	-1,779.33	1,902.37	1,895.34	7.03	270.588	
1,100.00	1,100.00	1,081.87	1,081.82	3.72	4.33	-69.31	672.34	-1,780.04	1,902.83	1,895.09	7.74	245.740	
1,200.00	1,200.00	1,182.13	1,182.07	4.08	4.66	-69.33	671.84	-1,781.08	1,903.62	1,895.14	8.48	224.383	
1,300.00	1,300.00	1,278.71	1,278.64	4.44	4.99	-69.36	671.17	-1,781.91	1,904.19	1,894.98	9.21	206.847	
1,400.00	1,400.00	1,380.56	1,380.49	4.79	5.34	-69.39	670.65	-1,783.21	1,905.20	1,895.26	9.95	191.539	
1,500.00	1,500.00	1,475.39	1,475.31	5.15	5.66	-69.41	670.25	-1,784.03	1,905.87	1,895.22	10.65	178.874	
1,600.00	1,600.00	1,572.39	1,572.30	5.51	5.98	-69.42	670.20	-1,785.32	1,907.10	1,895.73	11.37	167.794	
1,700.00	1,700.00	1,677.16	1,677.06	5.87	6.32	-69.44	669.98	-1,786.56	1,908.13	1,896.03	12.10	157.709	
1,800.00	1,800.00	1,789.93	1,789.83	6.23	6.70	-69.45	669.99	-1,787.29	1,908.75	1,895.89	12.86	148.447	
1,900.00	1,900.00	1,880.25	1,880.15	6.59	6.93	-69.47	669.77	-1,788.10	1,909.48	1,896.03	13.45	141.984	
2,000.00	2,000.00	2,076.42	2,076.28	6.95	7.36	-69.45	669.39	-1,785.61	1,908.70	1,894.41	14.30	133.517	
2,100.00	2,100.00	2,190.08	2,189.80	7.30	7.73	-69.43	667.98	-1,780.33	1,903.90	1,888.89	15.02	126.769	
2,200.00	2,200.00	2,280.36	2,279.98	7.66	7.90	-69.43	666.74	-1,776.31	1,899.24	1,883.69	15.55	122.114	
2,300.00	2,300.00	2,415.82	2,415.27	8.02	8.26	-69.42	664.41	-1,769.81	1,894.27	1,878.01	16.25	116.536	
2,400.00	2,400.00	2,592.23	2,590.99	8.38	9.06	-69.48	657.41	-1,756.10	1,885.39	1,868.01	17.37	108.524	
2,500.00	2,500.00	2,698.45	2,696.58	8.74	9.42	-69.52	651.99	-1,745.92	1,874.61	1,856.53	18.08	103.677	
2,600.00	2,600.00	2,791.74	2,789.33	9.10	9.70	-69.57	647.18	-1,737.12	1,863.97	1,845.24	18.73	99.516	
2,700.00	2,700.00	2,884.66	2,881.75	9.45	10.00	-69.61	642.47	-1,728.70	1,853.71	1,834.31	19.39	95.580	
2,800.00	2,800.00	2,976.25	2,972.88	9.81	10.31	-69.66	638.02	-1,720.67	1,843.80	1,823.73	20.07	91.874	
2,900.00	2,900.00	3,066.23	3,062.45	10.17	10.62	-69.69	633.91	-1,713.16	1,834.38	1,813.63	20.75	88.404	
3,000.00	3,000.00	3,164.82	3,160.63	10.53	10.98	-69.73	629.66	-1,705.26	1,825.37	1,803.90	21.47	85.030	
3,100.00	3,100.00	3,307.20	3,302.28	10.89	11.57	-69.79	622.98	-1,692.51	1,815.46	1,793.07	22.38	81.116	
3,200.00	3,200.00	3,399.14	3,393.64	11.25	11.98	-69.83	618.40	-1,683.29	1,804.32	1,781.16	23.15	77.924	
3,300.00	3,300.00	3,497.37	3,491.27	11.61	12.38	-69.85	613.99	-1,673.43	1,793.34	1,769.42	23.92	74.985	
3,400.00	3,400.00	3,604.16	3,597.39	11.96	12.82	-69.86	609.58	-1,662.28	1,782.11	1,757.39	24.72	72.104	
3,500.00	3,500.00	3,701.66	3,694.26	12.32	13.24	-69.86	605.68	-1,651.90	1,770.75	1,745.25	25.49	69.455	
3,600.00	3,600.00	3,797.52	3,789.52	12.68	13.66	-69.86	602.24	-1,641.80	1,759.61	1,733.34	26.28	66.968	
3,700.00	3,700.00	3,902.60	3,893.94	13.04	14.12	-69.87	597.87	-1,630.86	1,748.41	1,721.32	27.09	64.529	
3,800.00	3,800.00	4,009.59	4,000.19	13.40	14.61	-69.91	592.46	-1,619.56	1,736.75	1,708.82	27.93	62.182	
3,900.00	3,900.00	4,105.66	4,095.57	13.76	15.05	-69.95	587.40	-1,609.29	1,724.90	1,696.17	28.73	60.029	
4,000.00	4,000.00	4,189.05	4,178.42	14.11	15.43	-69.98	583.19	-1,600.79	1,713.61	1,684.12	29.49	58.100	
4,100.00	4,100.00	4,274.42	4,263.35	14.47	15.82	-70.01	579.38	-1,592.96	1,703.44	1,673.18	30.26	56.294	
4,200.00	4,200.00	4,383.39	4,371.75	14.83	16.33	-70.06	574.46	-1,583.07	1,693.38	1,662.26	31.12	54.420	
4,300.00	4,300.00	4,482.78	4,470.57	15.19	16.80	-70.09	569.81	-1,573.44	1,682.68	1,650.73	31.94	52.676	
4,400.00	4,400.00	4,572.03	4,559.35	15.55	17.22	-70.12	565.88	-1,565.27	1,672.56	1,639.83	32.73	51.095	
4,500.00	4,500.00	4,667.25	4,654.12	15.91	17.67	-70.17	561.40	-1,557.09	1,662.88	1,629.33	33.55	49.570	
4,600.00	4,600.00	4,760.90	4,747.33	16.27	18.11	-70.24	556.54	-1,549.39	1,653.39	1,619.04	34.35	48.135	
4,700.00	4,700.00	4,849.30	4,835.35	16.62	18.52	-70.31	552.01	-1,542.64	1,644.47	1,609.34	35.13	46.814	
4,800.00	4,800.00	4,935.06	4,920.81	16.98	18.92	-70.37	547.97	-1,536.63	1,636.30	1,600.40	35.89	45.590	
4,900.00	4,900.00	5,020.63	5,006.13	17.34	19.32	-70.44	544.19	-1,531.42	1,629.06	1,592.41	36.65	44.452	

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

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COMPASS 5000.15 Build 93A



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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: 132-, 1900-												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	5,115.33	5,100.61	17.70	19.75	-70.50	540.38	-1,526.11	1,622.43	1,584.99	37.44	43.337	
5,100.00	5,100.00	5,216.30	5,201.34	18.06	20.21	-70.56	536.51	-1,520.38	1,615.80	1,577.54	38.26	42.236	
5,200.00	5,200.00	5,312.25	5,297.08	18.42	20.66	-70.61	533.08	-1,515.00	1,609.32	1,570.26	39.06	41.204	
5,300.00	5,300.00	5,406.60	5,391.22	18.77	21.09	-70.67	529.78	-1,509.88	1,603.05	1,563.20	39.85	40.227	
5,400.00	5,400.00	5,495.31	5,479.78	19.13	21.50	-70.72	526.80	-1,505.59	1,597.37	1,556.76	40.61	39.335	
5,500.00	5,500.00	5,586.49	5,570.84	19.49	21.91	-70.76	524.10	-1,501.67	1,592.33	1,550.95	41.38	38.484	
5,600.00	5,600.00	5,679.55	5,663.79	19.85	22.33	-70.81	521.51	-1,498.06	1,587.75	1,545.60	42.15	37.665	
5,620.00	5,620.00	5,698.25	5,682.47	19.92	22.42	-70.82	521.00	-1,497.38	1,586.89	1,544.58	42.31	37.508	
5,700.00	5,699.99	5,775.90	5,760.05	20.20	22.76	4.11	518.82	-1,494.73	1,582.75	1,539.82	42.93	36.871	
5,800.00	5,799.94	5,878.42	5,862.46	20.55	23.21	4.07	515.86	-1,491.10	1,575.13	1,531.41	43.72	36.031	
5,900.00	5,899.76	5,974.22	5,958.16	20.90	23.63	4.04	513.12	-1,487.78	1,565.03	1,520.55	44.47	35.190	
6,000.00	5,999.40	6,068.72	6,052.58	21.24	24.04	4.01	510.29	-1,484.83	1,552.66	1,507.44	45.22	34.337	
6,100.00	6,098.78	6,163.67	6,147.45	21.59	24.45	4.00	507.89	-1,482.00	1,538.04	1,492.07	45.96	33.462	
6,200.00	6,197.85	6,256.74	6,240.47	21.95	24.86	4.01	505.81	-1,479.37	1,521.12	1,474.41	46.70	32.569	
6,300.00	6,296.54	6,349.40	6,333.08	22.30	25.26	4.05	504.23	-1,477.09	1,502.18	1,454.73	47.44	31.663	
6,400.00	6,394.78	6,449.33	6,432.97	22.66	25.70	4.11	502.99	-1,474.45	1,480.71	1,432.49	48.21	30.711	
6,500.00	6,492.50	6,547.67	6,531.26	23.02	26.13	4.17	501.51	-1,471.87	1,456.67	1,407.69	48.98	29.739	
6,600.00	6,589.65	6,642.90	6,626.45	23.39	26.55	4.25	500.18	-1,469.24	1,430.06	1,380.33	49.74	28.753	
6,700.00	6,686.16	6,734.91	6,718.42	23.76	26.95	4.35	499.00	-1,466.93	1,401.25	1,350.78	50.47	27.763	
6,800.00	6,781.96	6,830.09	6,813.57	24.14	27.36	4.47	498.00	-1,464.59	1,370.12	1,318.90	51.22	26.750	
6,900.00	6,876.99	6,924.43	6,907.87	24.53	27.77	4.61	497.08	-1,462.15	1,336.48	1,284.51	51.96	25.721	
7,000.00	6,971.19	7,014.45	6,997.86	24.93	28.15	4.78	496.39	-1,459.90	1,300.57	1,247.89	52.68	24.688	
7,100.00	7,064.49	7,105.19	7,088.58	25.35	28.54	4.96	495.61	-1,457.92	1,262.53	1,209.14	53.40	23.644	
7,200.00	7,156.84	7,198.44	7,181.80	25.78	28.94	5.17	494.67	-1,455.84	1,222.06	1,167.94	54.13	22.577	
7,300.00	7,248.17	7,289.32	7,272.65	26.23	29.32	5.42	494.07	-1,453.63	1,179.21	1,124.37	54.84	21.502	
7,400.00	7,338.43	7,377.14	7,360.44	26.69	29.68	5.72	493.70	-1,451.37	1,134.02	1,078.49	55.53	20.421	
7,500.00	7,427.55	7,459.02	7,442.29	27.18	30.01	6.05	493.50	-1,449.61	1,086.98	1,030.79	56.19	19.345	
7,600.00	7,515.47	7,546.65	7,529.92	27.70	30.36	6.44	493.18	-1,447.95	1,037.90	981.03	56.87	18.251	
7,700.00	7,602.13	7,630.75	7,614.00	28.24	30.69	6.88	492.91	-1,446.40	986.67	929.14	57.53	17.150	
7,800.00	7,687.49	7,714.11	7,697.35	28.80	30.98	7.42	492.98	-1,444.85	933.42	875.26	58.16	16.050	
7,834.82	7,716.89	7,742.51	7,725.74	29.01	31.08	7.64	493.08	-1,444.32	914.40	856.04	58.36	15.667	
7,900.00	7,771.77	7,794.73	7,777.95	29.40	31.23	7.97	493.31	-1,443.41	878.67	819.94	58.74	14.960	
7,969.34	7,830.15	7,851.28	7,834.49	29.83	31.38	8.36	493.62	-1,442.55	840.82	781.70	59.12	14.222	
8,000.00	7,856.03	7,876.83	7,860.04	30.02	31.44	8.51	493.82	-1,442.14	824.21	764.92	59.29	13.902	
8,100.00	7,941.33	7,958.74	7,941.94	30.65	31.60	9.04	494.72	-1,440.84	771.57	711.78	59.79	12.905	
8,200.00	8,027.94	8,041.45	8,024.64	31.27	31.69	9.61	495.75	-1,439.97	721.67	661.42	60.25	11.979	
8,300.00	8,115.81	8,127.92	8,111.09	31.90	31.76	10.27	497.00	-1,439.17	674.26	613.59	60.67	11.113	
8,400.00	8,204.88	8,212.99	8,196.15	32.51	31.79	10.97	498.35	-1,438.75	629.61	568.53	61.08	10.308	
8,500.00	8,295.09	8,299.92	8,283.05	33.12	31.81	11.78	500.16	-1,438.68	587.89	526.43	61.46	9.565	
8,600.00	8,386.38	8,391.49	8,374.60	33.72	31.82	12.74	502.47	-1,438.69	548.90	487.05	61.85	8.875	
8,700.00	8,478.68	8,483.67	8,466.74	34.30	31.84	13.80	504.88	-1,438.68	512.44	450.20	62.24	8.233	
8,800.00	8,571.95	8,576.77	8,559.82	34.86	31.86	14.93	507.18	-1,438.84	478.60	415.97	62.64	7.641	
8,900.00	8,666.11	8,669.59	8,652.62	35.41	31.90	16.08	509.20	-1,439.37	447.55	384.50	63.05	7.098	
9,000.00	8,761.11	8,763.21	8,746.21	35.94	31.96	17.21	510.80	-1,440.61	419.45	355.96	63.50	6.606	
9,100.00	8,856.88	8,862.57	8,845.56	36.45	32.03	18.30	511.46	-1,442.43	393.79	329.82	63.97	6.156	
9,200.00	8,953.36	8,958.80	8,941.77	36.94	32.09	19.28	511.41	-1,444.26	370.32	305.88	64.45	5.746	
9,300.00	9,050.48	9,058.55	9,041.51	37.41	32.16	20.32	511.34	-1,445.91	349.15	284.22	64.93	5.377	
9,400.00	9,148.19	9,158.76	9,141.71	37.87	32.22	21.39	511.05	-1,446.86	329.79	264.37	65.41	5.041	
9,500.00	9,246.41	9,257.15	9,240.09	38.30	32.26	22.34	510.29	-1,447.77	312.60	246.72	65.88	4.745	
9,600.00	9,345.08	9,355.69	9,338.61	38.72	32.30	23.07	508.97	-1,449.08	297.83	231.48	66.34	4.489	
9,700.00	9,444.13	9,453.15	9,436.02	39.11	32.33	23.40	506.76	-1,451.57	285.82	219.03	66.80	4.279	
9,800.00	9,543.50	9,551.54	9,534.30	39.49	32.37	23.32	504.00	-1,455.30	276.81	209.57	67.24	4.117	

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

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COMPASS 5000.15 Build 93A



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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: 132-, 1900-												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	
9,900.00	9,643.13	9,652.32	9,634.93	39.85	32.40	22.89	500.61	-1,459.46	270.08	202.42	67.66	3.992	
10,000.00	9,742.95	9,752.14	9,734.64	40.19	32.44	22.35	497.42	-1,463.05	265.42	197.35	68.08	3.899	
10,097.47	9,840.35	9,847.00	9,829.41	40.51	32.65	22.21	496.73	-1,465.19	263.61	194.98	68.63	3.841 CC, ES	
10,100.00	9,842.89	9,847.00	9,829.41	40.51	32.65	22.21	496.73	-1,465.19	263.62	194.98	68.64	3.841 SF	
10,184.16	9,927.04	9,911.61	9,893.44	40.78	32.93	-51.06	504.83	-1,463.46	267.78	198.74	69.04	3.879	
10,200.00	9,942.88	9,922.26	9,903.85	40.82	32.93	129.62	507.04	-1,463.22	269.73	200.70	69.03	3.908	
10,250.00	9,992.73	9,955.68	9,936.17	40.96	32.95	130.67	515.50	-1,462.67	279.73	210.84	68.89	4.060	
10,300.00	10,042.09	9,988.00	9,966.96	41.09	32.96	131.76	525.33	-1,462.54	295.33	226.69	68.64	4.303	
10,350.00	10,090.57	10,017.27	9,994.43	41.21	32.97	132.53	535.44	-1,462.84	316.44	248.19	68.25	4.637	
10,400.00	10,137.81	10,043.26	10,018.46	41.32	32.97	132.75	545.31	-1,463.48	342.80	275.01	67.78	5.057	
10,450.00	10,183.44	10,066.03	10,039.21	41.42	32.97	132.27	554.64	-1,464.27	373.91	306.60	67.31	5.555	
10,500.00	10,227.12	10,083.00	10,054.49	41.51	32.97	130.57	561.99	-1,464.97	409.20	342.44	66.76	6.130	
10,550.00	10,268.52	10,097.52	10,067.39	41.59	32.97	127.75	568.62	-1,465.67	448.10	381.77	66.33	6.756	
10,600.00	10,307.32	10,107.21	10,075.88	41.66	32.97	123.06	573.25	-1,466.20	489.96	424.04	65.92	7.433	
10,650.00	10,343.23	10,114.06	10,081.83	41.71	32.97	116.20	576.62	-1,466.61	534.07	468.47	65.60	8.141	
10,700.00	10,375.96	10,130.00	10,095.49	41.75	32.98	109.43	584.78	-1,467.66	580.04	514.20	65.85	8.809	
10,750.00	10,405.28	10,130.00	10,095.49	41.78	32.98	96.75	584.78	-1,467.66	626.72	561.08	65.64	9.548	
10,800.00	10,430.96	10,130.00	10,095.49	41.80	32.98	82.14	584.78	-1,467.66	674.04	608.44	65.60	10.275	
10,850.00	10,452.81	10,130.00	10,095.49	41.80	32.98	67.51	584.78	-1,467.66	721.54	655.84	65.70	10.982	
10,900.00	10,470.65	10,130.00	10,095.49	41.81	32.98	54.71	584.78	-1,467.66	768.86	702.94	65.91	11.665	
10,950.00	10,484.36	10,111.12	10,079.28	41.80	32.97	42.05	575.16	-1,466.43	815.12	749.45	65.66	12.414	
11,000.00	10,493.83	10,105.38	10,074.28	41.79	32.97	34.45	572.36	-1,466.10	860.85	794.93	65.91	13.061	
11,050.00	10,498.98	10,098.59	10,068.33	41.78	32.97	28.77	569.13	-1,465.72	905.44	839.24	66.20	13.678	
11,084.16	10,500.00	10,083.00	10,054.49	41.77	32.97	25.20	561.99	-1,464.97	935.31	869.16	66.15	14.139	
11,100.00	10,500.00	10,083.00	10,054.49	41.77	32.97	25.20	561.99	-1,464.97	948.88	882.56	66.32	14.308	
11,200.00	10,500.00	10,083.00	10,054.49	41.76	32.97	25.20	561.99	-1,464.97	1,036.01	968.76	67.26	15.404	
11,300.00	10,500.00	10,057.41	10,031.39	41.78	32.97	23.99	551.03	-1,463.95	1,124.55	1,057.00	67.55	16.648	
11,400.00	10,500.00	10,035.00	10,010.86	41.82	32.97	23.02	542.08	-1,463.24	1,214.44	1,146.60	67.84	17.901	
11,500.00	10,500.00	10,035.00	10,010.86	41.91	32.97	23.02	542.08	-1,463.24	1,305.32	1,236.91	68.41	19.081	
11,600.00	10,500.00	10,015.21	9,992.50	42.04	32.96	22.22	534.70	-1,462.80	1,397.02	1,328.40	68.62	20.358	
11,700.00	10,500.00	9,988.00	9,966.96	42.23	32.96	21.22	525.33	-1,462.54	1,489.79	1,421.08	68.72	21.680	
11,800.00	10,500.00	9,988.00	9,966.96	42.50	32.96	21.22	525.33	-1,462.54	1,582.75	1,513.66	69.10	22.906	
11,900.00	10,500.00	9,988.00	9,966.96	42.85	32.96	21.22	525.33	-1,462.54	1,676.52	1,607.10	69.42	24.151	
12,000.00	10,500.00	9,988.00	9,966.96	43.28	32.96	21.22	525.33	-1,462.54	1,770.97	1,701.28	69.69	25.411	
12,100.00	10,500.00	9,966.39	9,946.43	43.79	32.95	20.50	518.59	-1,462.58	1,865.52	1,795.81	69.71	26.761	
12,200.00	10,500.00	9,958.95	9,939.31	44.36	32.95	20.27	516.43	-1,462.64	1,960.67	1,890.81	69.86	28.065	
12,300.00	10,500.00	9,941.00	9,922.04	45.00	32.95	19.73	511.53	-1,462.87	2,056.30	1,986.41	69.89	29.420	
12,400.00	10,500.00	9,941.00	9,922.04	45.68	32.95	19.73	511.53	-1,462.87	2,152.03	2,081.95	70.08	30.708	
12,500.00	10,500.00	9,941.00	9,922.04	46.41	32.95	19.73	511.53	-1,462.87	2,248.13	2,177.89	70.25	32.004	
12,600.00	10,500.00	9,941.00	9,922.04	47.18	32.95	19.73	511.53	-1,462.87	2,344.56	2,274.17	70.39	33.306	
12,700.00	10,500.00	9,941.00	9,922.04	47.99	32.95	19.73	511.53	-1,462.87	2,441.28	2,370.75	70.53	34.614	
12,800.00	10,500.00	9,941.00	9,922.04	48.83	32.95	19.73	511.53	-1,462.87	2,538.25	2,467.60	70.65	35.927	
12,900.00	10,500.00	9,941.00	9,922.04	49.70	32.95	19.73	511.53	-1,462.87	2,635.44	2,564.68	70.76	37.244	
13,000.00	10,500.00	9,941.00	9,922.04	50.60	32.95	19.73	511.53	-1,462.87	2,732.84	2,661.98	70.86	38.564	
13,100.00	10,500.00	9,919.25	9,900.91	51.52	32.93	19.12	506.39	-1,463.28	2,829.80	2,759.01	70.79	39.976	
13,200.00	10,500.00	9,916.50	9,898.22	52.47	32.93	19.04	505.81	-1,463.35	2,927.38	2,856.52	70.86	41.312	
13,300.00	10,500.00	9,894.00	9,876.11	53.44	32.92	18.46	501.74	-1,463.94	3,025.61	2,954.84	70.78	42.748	
13,400.00	10,500.00	9,894.00	9,876.11	54.44	32.92	18.46	501.74	-1,463.94	3,123.34	3,052.47	70.86	44.075	
13,500.00	10,500.00	9,894.00	9,876.11	55.45	32.92	18.46	501.74	-1,463.94	3,221.20	3,150.26	70.95	45.403	
13,600.00	10,500.00	9,894.00	9,876.11	56.48	32.92	18.46	501.74	-1,463.94	3,319.19	3,248.17	71.02	46.733	
13,700.00	10,500.00	9,894.00	9,876.11	57.53	32.92	18.46	501.74	-1,463.94	3,417.30	3,346.20	71.10	48.064	
13,800.00	10,500.00	9,894.00	9,876.11	58.60	32.92	18.46	501.74	-1,463.94	3,515.52	3,444.35	71.17	49.396	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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: 132-, 1900-												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	
13,900.00	10,500.00	9,894.00	9,876.11	59.68	32.92	18.46	501.74	-1,463.94	3,613.83	3,542.59	71.24	50.729	
14,000.00	10,500.00	9,894.00	9,876.11	60.78	32.92	18.46	501.74	-1,463.94	3,712.23	3,640.93	71.30	52.062	
14,100.00	10,500.00	9,894.00	9,876.11	61.89	32.92	18.46	501.74	-1,463.94	3,810.72	3,739.35	71.37	53.395	
14,200.00	10,500.00	9,894.00	9,876.11	63.01	32.92	18.46	501.74	-1,463.94	3,909.28	3,837.85	71.43	54.729	
14,300.00	10,500.00	9,894.00	9,876.11	64.15	32.92	18.46	501.74	-1,463.94	4,007.92	3,936.43	71.49	56.062	
14,400.00	10,500.00	9,894.00	9,876.11	65.30	32.92	18.46	501.74	-1,463.94	4,106.62	4,035.07	71.55	57.395	
14,500.00	10,500.00	9,894.00	9,876.11	66.46	32.92	18.46	501.74	-1,463.94	4,205.38	4,133.77	71.61	58.727	
14,600.00	10,500.00	9,894.00	9,876.11	67.63	32.92	18.46	501.74	-1,463.94	4,304.20	4,232.53	71.67	60.059	
14,700.00	10,500.00	9,894.00	9,876.11	68.81	32.92	18.46	501.74	-1,463.94	4,403.07	4,331.35	71.72	61.390	
14,800.00	10,500.00	9,894.00	9,876.11	70.00	32.92	18.46	501.74	-1,463.94	4,501.99	4,430.22	71.78	62.721	
14,900.00	10,500.00	9,894.00	9,876.11	71.20	32.92	18.46	501.74	-1,463.94	4,600.96	4,529.13	71.83	64.050	
15,000.00	10,500.00	9,894.00	9,876.11	72.41	32.92	18.46	501.74	-1,463.94	4,699.98	4,628.09	71.89	65.379	
15,100.00	10,500.00	9,894.00	9,876.11	73.63	32.92	18.46	501.74	-1,463.94	4,799.03	4,727.09	71.94	66.706	
15,200.00	10,500.00	9,894.00	9,876.11	74.85	32.92	18.46	501.74	-1,463.94	4,898.12	4,826.12	72.00	68.032	
15,300.00	10,500.00	9,894.00	9,876.11	76.09	32.92	18.46	501.74	-1,463.94	4,997.25	4,925.20	72.05	69.356	
15,400.00	10,500.00	9,894.00	9,876.11	77.33	32.92	18.46	501.74	-1,463.94	5,096.41	5,024.30	72.11	70.680	
15,500.00	10,500.00	9,894.00	9,876.11	78.57	32.92	18.46	501.74	-1,463.94	5,195.60	5,123.44	72.16	72.001	
15,600.00	10,500.00	9,894.00	9,876.11	79.82	32.92	18.46	501.74	-1,463.94	5,294.83	5,222.61	72.21	73.321	
15,700.00	10,500.00	9,894.00	9,876.11	81.08	32.92	18.46	501.74	-1,463.94	5,394.08	5,321.81	72.27	74.639	
15,800.00	10,500.00	9,894.00	9,876.11	82.35	32.92	18.46	501.74	-1,463.94	5,493.36	5,421.04	72.32	75.956	
15,900.00	10,500.00	9,894.00	9,876.11	83.62	32.92	18.46	501.74	-1,463.94	5,592.67	5,520.29	72.38	77.271	
16,000.00	10,500.00	9,894.00	9,876.11	84.89	32.92	18.46	501.74	-1,463.94	5,692.00	5,619.57	72.43	78.584	
16,100.00	10,500.00	9,894.00	9,876.11	86.17	32.92	18.46	501.74	-1,463.94	5,791.35	5,718.86	72.49	79.894	
16,200.00	10,500.00	9,872.04	9,854.35	87.46	32.79	17.93	498.83	-1,464.56	5,890.18	5,817.65	72.53	81.205	
16,300.00	10,500.00	9,871.23	9,853.55	88.75	32.79	17.91	498.74	-1,464.58	5,989.54	5,916.94	72.59	82.511	
16,400.00	10,500.00	9,870.44	9,852.77	90.04	32.78	17.89	498.66	-1,464.61	6,088.91	6,016.26	72.65	83.815	
16,500.00	10,500.00	9,869.68	9,852.01	91.34	32.78	17.87	498.57	-1,464.63	6,188.31	6,115.60	72.70	85.116	
16,600.00	10,500.00	9,868.94	9,851.28	92.65	32.77	17.85	498.50	-1,464.65	6,287.72	6,214.96	72.76	86.415	
16,700.00	10,500.00	9,847.00	9,829.41	93.95	32.65	17.35	496.73	-1,465.19	6,387.65	6,314.84	72.81	87.726	
16,800.00	10,500.00	9,847.00	9,829.41	95.26	32.65	17.35	496.73	-1,465.19	6,487.07	6,414.19	72.87	89.020	
16,900.00	10,500.00	9,847.00	9,829.41	96.58	32.65	17.35	496.73	-1,465.19	6,586.50	6,513.57	72.93	90.311	
17,000.00	10,500.00	9,847.00	9,829.41	97.90	32.65	17.35	496.73	-1,465.19	6,685.94	6,612.95	72.99	91.599	
17,100.00	10,500.00	9,847.00	9,829.41	99.22	32.65	17.35	496.73	-1,465.19	6,785.41	6,712.36	73.05	92.886	
17,200.00	10,500.00	9,847.00	9,829.41	100.54	32.65	17.35	496.73	-1,465.19	6,884.89	6,811.78	73.11	94.169	
17,300.00	10,500.00	9,847.00	9,829.41	101.87	32.65	17.35	496.73	-1,465.19	6,984.38	6,911.21	73.17	95.450	
17,400.00	10,500.00	9,847.00	9,829.41	103.20	32.65	17.35	496.73	-1,465.19	7,083.89	7,010.65	73.23	96.729	
17,500.00	10,500.00	9,847.00	9,829.41	104.53	32.65	17.35	496.73	-1,465.19	7,183.41	7,110.11	73.30	98.005	
17,600.00	10,500.00	9,847.00	9,829.41	105.87	32.65	17.35	496.73	-1,465.19	7,282.95	7,209.59	73.36	99.278	
17,700.00	10,500.00	9,847.00	9,829.41	107.21	32.65	17.35	496.73	-1,465.19	7,382.49	7,309.07	73.42	100.548	
17,800.00	10,500.00	9,847.00	9,829.41	108.55	32.65	17.35	496.73	-1,465.19	7,482.05	7,408.57	73.49	101.816	
17,900.00	10,500.00	9,847.00	9,829.41	109.89	32.65	17.35	496.73	-1,465.19	7,581.62	7,508.07	73.55	103.081	
18,000.00	10,500.00	9,847.00	9,829.41	111.24	32.65	17.35	496.73	-1,465.19	7,681.21	7,607.59	73.62	104.343	
18,100.00	10,500.00	9,847.00	9,829.41	112.59	32.65	17.35	496.73	-1,465.19	7,780.80	7,707.12	73.68	105.602	
18,200.00	10,500.00	9,847.00	9,829.41	113.94	32.65	17.35	496.73	-1,465.19	7,880.40	7,806.66	73.75	106.858	
18,280.05	10,500.00	9,847.00	9,829.41	115.02	32.65	17.35	496.73	-1,465.19	7,960.14	7,886.34	73.80	107.862	



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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	14.12	14.12	0.00	1.01	22.38	702.98	289.53	760.27				
100.00	100.00	114.98	114.98	0.13	1.35	22.39	702.91	289.52	760.20	758.72	1.48	514.369	
200.00	200.00	214.90	214.90	0.49	1.92	22.39	702.72	289.52	760.03	757.65	2.38	319.335	
230.42	230.42	244.42	244.42	0.60	2.07	22.39	702.70	289.54	760.01	757.40	2.61	291.604	
300.00	300.00	311.93	311.93	0.85	2.44	22.40	702.75	289.65	760.10	756.97	3.13	242.542	
400.00	400.00	408.93	408.93	1.21	2.94	22.41	703.11	289.96	760.57	756.70	3.88	196.160	
500.00	500.00	509.34	509.34	1.57	3.33	22.41	703.74	290.15	761.22	756.60	4.62	164.619	
600.00	600.00	608.79	608.78	1.93	3.69	22.39	704.43	290.16	761.87	756.49	5.38	141.642	
700.00	700.00	708.21	708.20	2.29	4.03	22.36	705.27	290.05	762.60	756.50	6.11	124.863	
800.00	800.00	808.24	808.22	2.64	4.35	22.31	706.16	289.83	763.35	756.53	6.81	112.070	
900.00	900.00	909.10	909.08	3.00	4.66	22.28	707.05	289.66	764.10	756.61	7.49	101.990	
1,000.00	1,000.00	1,010.93	1,010.90	3.36	5.00	22.23	707.79	289.22	764.61	756.45	8.16	93.684	
1,100.00	1,100.00	1,114.25	1,114.22	3.72	5.29	22.17	708.28	288.64	764.83	756.06	8.77	87.198	
1,187.70	1,187.70	1,201.73	1,201.70	4.03	5.51	22.13	708.44	288.11	764.78	755.49	9.29	82.326	
1,200.00	1,200.00	1,213.87	1,213.84	4.08	5.54	22.12	708.47	288.03	764.78	755.42	9.36	81.689	
1,300.00	1,300.00	1,315.17	1,315.14	4.44	5.81	22.07	708.67	287.40	764.73	754.77	9.97	76.732	
1,400.00	1,400.00	1,414.65	1,414.62	4.79	6.08	22.02	708.86	286.63	764.61	754.04	10.57	72.310	
1,500.00	1,500.00	1,514.30	1,514.26	5.15	6.37	21.96	709.08	285.94	764.57	753.37	11.20	68.273	
1,600.00	1,600.00	1,614.78	1,614.74	5.51	6.66	21.93	709.17	285.51	764.49	752.66	11.82	64.661	
1,684.82	1,684.82	1,698.85	1,698.82	5.82	6.92	21.90	709.27	285.14	764.44	752.08	12.36	61.863	
1,700.00	1,700.00	1,713.75	1,713.72	5.87	6.97	21.90	709.30	285.07	764.44	751.99	12.45	61.378	
1,800.00	1,800.00	1,812.11	1,812.08	6.23	7.31	21.86	709.61	284.70	764.60	751.49	13.10	58.354	
1,900.00	1,900.00	1,911.11	1,911.07	6.59	7.66	21.83	710.06	284.45	764.92	751.15	13.77	55.569	
2,000.00	2,000.00	2,008.71	2,008.66	6.95	7.98	21.80	710.65	284.20	765.39	750.98	14.41	53.112	
2,100.00	2,100.00	2,104.42	2,104.37	7.30	8.25	21.81	711.48	284.65	766.37	751.30	15.07	50.847	
2,200.00	2,200.00	2,204.11	2,204.05	7.66	8.53	21.88	712.48	286.10	767.84	752.10	15.74	48.785	
2,300.00	2,300.00	2,315.51	2,315.44	8.02	8.85	21.86	713.16	286.06	768.40	751.94	16.45	46.705	
2,400.00	2,400.00	2,427.22	2,427.10	8.38	9.33	21.63	713.30	282.88	767.46	750.23	17.23	44.542	
2,500.00	2,500.00	2,543.46	2,543.18	8.74	9.83	21.24	712.31	276.84	764.78	746.88	17.90	42.734	
2,600.00	2,600.00	2,658.49	2,657.87	9.10	10.30	20.73	709.59	268.52	759.97	741.45	18.51	41.050	
2,700.00	2,700.00	2,774.23	2,772.98	9.45	11.02	20.03	705.44	257.18	753.17	733.85	19.32	38.981	
2,800.00	2,800.00	2,889.97	2,887.68	9.81	12.37	19.14	699.71	242.82	744.30	723.88	20.42	36.451	
2,900.00	2,900.00	3,002.51	2,998.73	10.17	13.36	18.08	692.63	226.09	733.51	712.13	21.38	34.312	
3,000.00	3,000.00	3,104.49	3,099.02	10.53	13.81	16.96	685.52	209.00	721.70	699.72	21.98	32.839	
3,100.00	3,100.00	3,202.49	3,195.34	10.89	14.15	15.81	678.69	192.22	710.06	687.54	22.52	31.530	
3,200.00	3,200.00	3,299.04	3,290.24	11.25	14.50	14.66	672.08	175.81	698.87	675.79	23.07	30.290	
3,300.00	3,300.00	3,394.97	3,384.59	11.61	14.85	13.48	665.78	159.63	688.28	664.64	23.64	29.120	
3,400.00	3,400.00	3,490.51	3,478.63	11.96	15.30	12.30	659.80	143.85	678.38	654.08	24.31	27.911	
3,500.00	3,500.00	3,586.19	3,572.92	12.32	15.76	11.12	654.10	128.60	669.22	644.23	24.99	26.775	
3,600.00	3,600.00	3,686.54	3,671.83	12.68	16.19	9.87	648.20	112.80	660.48	634.85	25.62	25.776	
3,700.00	3,700.00	3,785.80	3,769.58	13.04	16.60	8.55	642.24	96.53	651.82	625.60	26.22	24.859	
3,800.00	3,800.00	3,882.00	3,864.21	13.40	17.00	7.18	636.62	80.20	643.61	616.79	26.82	23.995	
3,900.00	3,900.00	3,976.00	3,956.71	13.76	17.40	5.80	631.70	64.22	636.39	608.96	27.43	23.200	
4,000.00	4,000.00	4,074.19	4,053.41	14.11	17.83	4.37	626.92	47.89	629.98	601.93	28.05	22.460	
4,100.00	4,100.00	4,172.59	4,150.38	14.47	18.26	2.93	622.05	31.88	623.93	595.26	28.68	21.758	
4,200.00	4,200.00	4,270.49	4,246.81	14.83	18.70	1.45	617.29	15.62	618.35	589.04	29.31	21.097	
4,300.00	4,300.00	4,368.13	4,342.98	15.19	19.15	-0.06	612.68	-0.59	613.36	583.41	29.95	20.479	
4,400.00	4,400.00	4,467.79	4,441.07	15.55	19.61	-1.65	607.91	-17.54	608.76	578.16	30.60	19.892	
4,500.00	4,500.00	4,566.03	4,537.65	15.91	20.07	-3.31	603.06	-34.87	604.53	573.27	31.26	19.336	
4,600.00	4,600.00	4,662.48	4,632.48	16.27	20.53	-4.95	598.56	-51.88	601.09	569.16	31.93	18.824	
4,700.00	4,700.00	4,761.21	4,729.64	16.62	21.01	-6.61	594.04	-68.86	598.22	565.60	32.62	18.341	
4,800.00	4,800.00	4,858.11	4,825.06	16.98	21.48	-8.22	589.74	-85.15	595.96	562.65	33.31	17.893	

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

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COMPASS 5000.15 Build 93A



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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	
4,900.00	4,900.00	4,955.16	4,920.70	17.34	21.96	-9.80	585.82	-101.14	594.53	560.52	34.01	17.481	
5,000.00	5,000.00	5,053.40	5,017.31	17.70	22.46	-11.51	581.68	-118.50	593.63	558.90	34.73	17.091	
5,064.08	5,064.08	5,115.28	5,078.08	17.93	22.78	-12.64	579.08	-129.84	593.45	558.25	35.20	16.859	
5,100.00	5,100.00	5,149.93	5,112.10	18.06	22.96	-13.27	577.65	-136.28	593.51	558.04	35.47	16.734	
5,200.00	5,200.00	5,247.62	5,207.94	18.42	23.45	-15.10	573.70	-154.78	594.24	558.02	36.23	16.404	
5,300.00	5,300.00	5,347.60	5,305.94	18.77	23.97	-17.00	569.37	-174.11	595.45	558.44	37.01	16.087	
5,400.00	5,400.00	5,445.57	5,402.00	19.13	24.47	-18.85	564.90	-192.83	597.03	559.22	37.81	15.790	
5,500.00	5,500.00	5,542.90	5,497.50	19.49	24.97	-20.63	560.83	-211.14	599.49	560.87	38.61	15.526	
5,600.00	5,600.00	5,641.53	5,594.42	19.85	25.47	-22.35	556.93	-229.00	602.49	563.05	39.44	15.277	
5,620.00	5,620.00	5,661.19	5,613.76	19.92	25.58	-22.68	556.18	-232.48	603.15	563.54	39.60	15.230	
5,700.00	5,699.99	5,739.67	5,690.98	20.20	25.98	51.01	553.29	-246.17	605.50	565.24	40.27	15.038	
5,800.00	5,799.94	5,839.49	5,789.30	20.55	26.50	49.64	549.82	-263.08	607.31	566.22	41.09	14.780	
5,900.00	5,899.76	5,939.69	5,888.13	20.90	27.02	48.55	546.55	-279.23	607.58	565.67	41.90	14.500	
6,000.00	5,999.40	6,038.07	5,985.22	21.24	27.54	47.70	543.49	-294.84	606.34	563.65	42.69	14.202	
6,100.00	6,098.78	6,136.28	6,081.73	21.59	28.12	46.82	539.59	-312.53	603.75	560.24	43.51	13.877	
6,200.00	6,197.85	6,238.21	6,181.45	21.95	28.72	45.86	534.23	-332.94	599.41	555.06	44.35	13.514	
6,300.00	6,296.54	6,338.83	6,279.92	22.30	29.26	45.10	528.76	-352.92	593.19	548.01	45.18	13.130	
6,400.00	6,394.78	6,441.28	6,380.36	22.66	29.81	44.59	523.24	-372.38	584.86	538.87	45.99	12.717	
6,500.00	6,492.50	6,543.95	6,481.17	23.02	30.36	44.34	517.64	-390.97	574.23	527.46	46.78	12.276	
6,600.00	6,589.65	6,644.37	6,579.93	23.39	30.91	44.36	512.07	-408.29	561.26	513.74	47.52	11.811	
6,700.00	6,686.16	6,742.83	6,677.05	23.76	31.45	44.78	507.60	-423.83	546.57	498.36	48.22	11.336	
6,800.00	6,781.96	6,840.92	6,773.95	24.14	31.97	45.53	503.57	-438.55	530.08	481.20	48.88	10.845	
6,900.00	6,876.99	6,936.14	6,868.22	24.53	32.48	46.70	500.70	-451.62	512.20	462.72	49.48	10.352	
7,000.00	6,971.19	7,034.61	6,966.00	24.93	33.02	48.51	499.34	-463.13	493.26	443.22	50.04	9.857	
7,100.00	7,064.49	7,135.31	7,066.19	25.35	33.55	50.98	497.92	-473.15	472.35	421.80	50.56	9.343	
7,200.00	7,156.84	7,229.07	7,159.59	25.78	34.02	53.89	496.63	-481.33	450.21	399.19	51.01	8.825	
7,300.00	7,248.17	7,318.36	7,248.69	26.23	34.43	57.51	497.06	-487.07	428.70	377.27	51.43	8.336	
7,400.00	7,338.43	7,405.83	7,336.06	26.69	34.74	62.00	499.36	-490.18	409.09	357.28	51.81	7.896	
7,500.00	7,427.55	7,497.57	7,427.72	27.18	34.96	67.54	502.80	-492.20	392.25	339.98	52.27	7.505	
7,600.00	7,515.47	7,590.98	7,521.08	27.70	35.13	73.91	505.19	-493.58	377.64	324.70	52.94	7.133	
7,700.00	7,602.13	7,679.00	7,609.08	28.24	35.26	80.58	506.96	-494.36	367.34	313.41	53.93	6.811	
7,800.00	7,687.49	7,764.43	7,694.50	28.80	35.35	87.53	508.66	-494.55	363.30	308.02	55.28	6.572	
7,805.70	7,692.31	7,769.28	7,699.34	28.84	35.35	87.94	508.76	-494.55	363.29	307.92	55.37	6.561 CC	
7,834.82	7,716.89	7,793.95	7,724.01	29.01	35.37	90.01	509.24	-494.53	363.62	307.78	55.84	6.512 ES	
7,900.00	7,771.77	7,848.85	7,778.90	29.40	35.41	94.63	510.28	-494.40	366.76	309.81	56.95	6.440	
7,969.34	7,830.15	7,907.00	7,837.04	29.83	35.45	99.45	511.37	-494.15	373.73	315.56	58.18	6.424 SF	
8,000.00	7,856.03	7,932.89	7,862.93	30.02	35.46	101.60	511.85	-494.01	377.95	319.23	58.71	6.437	
8,100.00	7,941.33	8,019.77	7,949.79	30.65	35.53	108.35	513.49	-493.88	395.45	335.09	60.37	6.551	
8,200.00	8,027.94	8,109.35	8,039.36	31.27	35.66	114.51	515.03	-494.31	417.21	355.38	61.83	6.747	
8,300.00	8,115.81	8,198.28	8,128.28	31.90	35.82	119.88	516.25	-494.93	441.82	378.72	63.10	7.002	
8,400.00	8,204.88	8,287.23	8,217.22	32.51	35.96	124.56	517.24	-495.37	468.43	404.27	64.16	7.301	
8,500.00	8,295.09	8,378.18	8,308.16	33.12	36.11	128.69	518.18	-495.71	496.19	431.10	65.09	7.623	
8,600.00	8,386.38	8,471.77	8,401.75	33.72	36.31	132.28	519.18	-496.34	524.06	458.10	65.96	7.945	
8,700.00	8,478.68	8,563.95	8,493.92	34.30	36.48	135.35	519.56	-496.90	551.46	484.69	66.77	8.259	
8,800.00	8,571.95	8,655.88	8,585.84	34.86	36.60	138.17	518.22	-496.33	578.48	510.98	67.50	8.570	
8,900.00	8,666.11	8,753.50	8,683.44	35.41	36.68	140.77	516.36	-495.68	604.55	536.34	68.20	8.864	
9,000.00	8,761.11	8,853.60	8,783.51	35.94	36.81	143.04	513.97	-495.76	628.64	559.74	68.90	9.123	
9,100.00	8,856.88	8,947.10	8,876.98	36.45	37.04	144.84	512.14	-496.31	651.04	581.46	69.58	9.357	
9,200.00	8,953.36	9,036.23	8,966.11	36.94	37.25	146.18	512.18	-496.73	672.53	602.40	70.13	9.590	
9,300.00	9,050.48	9,134.26	9,064.14	37.41	37.42	147.37	513.11	-496.71	692.92	622.25	70.67	9.805	
9,400.00	9,148.19	9,234.77	9,164.64	37.87	37.60	148.35	514.27	-497.24	710.90	639.66	71.24	9.979	
9,500.00	9,246.41	9,338.42	9,268.27	38.30	37.86	149.15	515.73	-498.39	726.35	654.47	71.88	10.105	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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	
9,600.00	9,345.08	9,437.54	9,367.35	38.72	38.12	149.68	518.09	-500.18	739.27	666.79	72.48	10.199	
9,700.00	9,444.13	9,533.00	9,462.77	39.11	38.35	150.07	520.31	-501.55	750.35	677.34	73.01	10.277	
9,800.00	9,543.50	9,628.00	9,557.77	39.49	38.52	150.51	520.63	-501.95	759.73	686.23	73.50	10.337	
9,900.00	9,643.13	9,725.84	9,655.61	39.85	38.64	150.87	520.73	-501.97	767.24	693.28	73.96	10.374	
10,000.00	9,742.95	9,812.56	9,742.24	40.19	38.77	150.89	523.65	-502.17	773.15	698.85	74.29	10.407	
10,100.00	9,842.89	9,884.88	9,813.27	40.51	38.88	150.07	536.84	-502.86	779.85	705.42	74.43	10.477	
10,184.16	9,927.04	9,942.94	9,868.55	40.78	38.99	73.92	554.52	-503.54	786.82	712.30	74.52	10.558	
10,200.00	9,942.88	9,965.00	9,889.03	40.82	39.04	-106.14	562.68	-503.79	788.52	713.79	74.73	10.551	
10,250.00	9,992.73	9,983.42	9,905.93	40.96	39.08	-106.13	570.00	-503.95	795.03	720.56	74.47	10.676	
10,300.00	10,042.09	10,010.29	9,930.30	41.09	39.15	-106.26	581.31	-503.98	804.39	730.06	74.34	10.821	
10,350.00	10,090.57	10,034.33	9,951.81	41.21	39.21	-106.14	592.07	-503.83	816.65	742.49	74.16	11.012	
10,400.00	10,137.81	10,060.00	9,974.43	41.32	39.29	-105.92	604.19	-503.46	831.91	757.86	74.05	11.234	
10,450.00	10,183.44	10,060.00	9,974.43	41.42	39.29	-104.00	604.19	-503.46	850.34	776.99	73.35	11.593	
10,500.00	10,227.12	10,086.41	9,997.15	41.51	39.37	-103.31	617.63	-503.01	871.44	798.02	73.43	11.868	
10,550.00	10,268.52	10,096.76	10,005.85	41.59	39.40	-101.30	623.24	-502.84	895.58	822.43	73.15	12.243	
10,600.00	10,307.32	10,104.12	10,011.96	41.66	39.43	-98.70	627.33	-502.73	922.34	849.47	72.87	12.657	
10,650.00	10,343.23	10,108.81	10,015.83	41.71	39.45	-95.49	630.00	-502.67	951.43	878.81	72.62	13.101	
10,700.00	10,375.96	10,111.17	10,017.76	41.75	39.46	-91.71	631.35	-502.63	982.49	910.09	72.40	13.571	
10,750.00	10,405.28	10,111.46	10,018.00	41.78	39.46	-87.41	631.52	-502.63	1,015.16	942.95	72.21	14.058	
10,800.00	10,430.96	10,109.96	10,016.77	41.80	39.45	-82.71	630.66	-502.65	1,049.05	976.98	72.07	14.555	
10,850.00	10,452.81	10,106.89	10,014.25	41.80	39.44	-77.73	628.90	-502.69	1,083.78	1,011.80	71.97	15.058	
10,900.00	10,470.65	10,102.44	10,010.57	41.81	39.42	-72.63	626.39	-502.76	1,118.99	1,047.07	71.92	15.560	
10,950.00	10,484.36	10,096.79	10,005.88	41.80	39.40	-67.57	623.26	-502.84	1,154.34	1,082.44	71.90	16.055	
11,000.00	10,493.83	10,060.00	9,974.43	41.79	39.29	-61.03	604.19	-503.46	1,190.59	1,119.79	70.80	16.817	
11,050.00	10,498.98	10,060.00	9,974.43	41.78	39.29	-57.01	604.19	-503.46	1,224.80	1,153.66	71.14	17.216	
11,084.16	10,500.00	10,060.00	9,974.43	41.77	39.29	-54.44	604.19	-503.46	1,247.81	1,176.40	71.41	17.474	
11,100.00	10,500.00	10,060.00	9,974.43	41.77	39.29	-54.44	604.19	-503.46	1,258.46	1,186.92	71.54	17.591	
11,200.00	10,500.00	10,060.00	9,974.43	41.76	39.29	-54.44	604.19	-503.46	1,328.08	1,255.78	72.30	18.370	
11,300.00	10,500.00	10,060.00	9,974.43	41.78	39.29	-54.44	604.19	-503.46	1,401.37	1,328.41	72.96	19.208	
11,400.00	10,500.00	10,021.77	9,940.61	41.82	39.18	-52.75	586.38	-503.93	1,476.47	1,404.12	72.35	20.406	
11,500.00	10,500.00	10,005.75	9,926.21	41.91	39.14	-52.06	579.35	-503.99	1,554.27	1,481.86	72.41	21.465	
11,600.00	10,500.00	9,965.00	9,889.03	42.04	39.04	-50.35	562.68	-503.79	1,634.67	1,562.98	71.69	22.802	
11,700.00	10,500.00	9,965.00	9,889.03	42.23	39.04	-50.35	562.68	-503.79	1,715.78	1,643.63	72.15	23.781	
11,800.00	10,500.00	9,965.00	9,889.03	42.50	39.04	-50.35	562.68	-503.79	1,798.79	1,726.23	72.55	24.792	
11,900.00	10,500.00	9,965.00	9,889.03	42.85	39.04	-50.35	562.68	-503.79	1,883.45	1,810.54	72.91	25.833	
12,000.00	10,500.00	9,965.00	9,889.03	43.28	39.04	-50.35	562.68	-503.79	1,969.55	1,896.33	73.22	26.898	
12,100.00	10,500.00	9,965.00	9,889.03	43.79	39.04	-50.35	562.68	-503.79	2,056.92	1,983.41	73.50	27.985	
12,200.00	10,500.00	9,965.00	9,889.03	44.36	39.04	-50.35	562.68	-503.79	2,145.38	2,071.63	73.75	29.091	
12,300.00	10,500.00	9,922.80	9,849.57	45.00	38.95	-48.63	547.75	-503.31	2,232.96	2,161.02	71.94	31.038	
12,400.00	10,500.00	9,916.19	9,843.30	45.68	38.94	-48.37	545.68	-503.23	2,322.64	2,250.80	71.84	32.331	
12,500.00	10,500.00	9,910.01	9,837.41	46.41	38.93	-48.12	543.80	-503.16	2,413.05	2,341.31	71.74	33.636	
12,600.00	10,500.00	9,871.00	9,799.81	47.18	38.86	-46.59	533.44	-502.70	2,505.26	2,435.12	70.14	35.716	
12,700.00	10,500.00	9,871.00	9,799.81	47.99	38.86	-46.59	533.44	-502.70	2,596.58	2,526.27	70.31	36.932	
12,800.00	10,500.00	9,871.00	9,799.81	48.83	38.86	-46.59	533.44	-502.70	2,688.52	2,618.06	70.46	38.159	
12,900.00	10,500.00	9,871.00	9,799.81	49.70	38.86	-46.59	533.44	-502.70	2,781.01	2,710.42	70.59	39.395	
13,000.00	10,500.00	9,871.00	9,799.81	50.60	38.86	-46.59	533.44	-502.70	2,874.01	2,803.29	70.72	40.639	
13,100.00	10,500.00	9,871.00	9,799.81	51.52	38.86	-46.59	533.44	-502.70	2,967.47	2,896.63	70.84	41.891	
13,200.00	10,500.00	9,871.00	9,799.81	52.47	38.86	-46.59	533.44	-502.70	3,061.33	2,990.38	70.95	43.148	
13,300.00	10,500.00	9,871.00	9,799.81	53.44	38.86	-46.59	533.44	-502.70	3,155.58	3,084.52	71.05	44.412	
13,400.00	10,500.00	9,871.00	9,799.81	54.44	38.86	-46.59	533.44	-502.70	3,250.16	3,179.01	71.15	45.680	
13,500.00	10,500.00	9,871.00	9,799.81	55.45	38.86	-46.59	533.44	-502.70	3,345.07	3,273.82	71.24	46.953	
13,600.00	10,500.00	9,871.00	9,799.81	56.48	38.86	-46.59	533.44	-502.70	3,440.26	3,368.93	71.33	48.230	

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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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	
13,700.00	10,500.00	9,871.00	9,799.81	57.53	38.86	-46.59	533.44	-502.70	3,535.72	3,464.30	71.41	49.510	
13,800.00	10,500.00	9,871.00	9,799.81	58.60	38.86	-46.59	533.44	-502.70	3,631.42	3,559.92	71.49	50.793	
13,900.00	10,500.00	9,871.00	9,799.81	59.68	38.86	-46.59	533.44	-502.70	3,727.34	3,655.77	71.57	52.079	
14,000.00	10,500.00	9,871.00	9,799.81	60.78	38.86	-46.59	533.44	-502.70	3,823.48	3,751.83	71.65	53.367	
14,100.00	10,500.00	9,871.00	9,799.81	61.89	38.86	-46.59	533.44	-502.70	3,919.81	3,848.09	71.72	54.656	
14,200.00	10,500.00	9,871.00	9,799.81	63.01	38.86	-46.59	533.44	-502.70	4,016.32	3,944.53	71.79	55.948	
14,300.00	10,500.00	9,871.00	9,799.81	64.15	38.86	-46.59	533.44	-502.70	4,112.99	4,041.14	71.86	57.240	
14,400.00	10,500.00	9,871.00	9,799.81	65.30	38.86	-46.59	533.44	-502.70	4,209.82	4,137.90	71.92	58.534	
14,500.00	10,500.00	9,871.00	9,799.81	66.46	38.86	-46.59	533.44	-502.70	4,306.80	4,234.81	71.99	59.828	
14,600.00	10,500.00	9,871.00	9,799.81	67.63	38.86	-46.59	533.44	-502.70	4,403.91	4,331.86	72.05	61.123	
14,700.00	10,500.00	9,871.00	9,799.81	68.81	38.86	-46.59	533.44	-502.70	4,501.15	4,429.04	72.11	62.418	
14,800.00	10,500.00	9,871.00	9,799.81	70.00	38.86	-46.59	533.44	-502.70	4,598.50	4,526.33	72.17	63.714	
14,900.00	10,500.00	9,871.00	9,799.81	71.20	38.86	-46.59	533.44	-502.70	4,695.97	4,623.74	72.24	65.009	
15,000.00	10,500.00	9,871.00	9,799.81	72.41	38.86	-46.59	533.44	-502.70	4,793.54	4,721.25	72.30	66.304	
15,100.00	10,500.00	9,871.00	9,799.81	73.63	38.86	-46.59	533.44	-502.70	4,891.21	4,818.86	72.36	67.599	
15,200.00	10,500.00	9,871.00	9,799.81	74.85	38.86	-46.59	533.44	-502.70	4,988.97	4,916.56	72.42	68.893	
15,300.00	10,500.00	9,871.00	9,799.81	76.09	38.86	-46.59	533.44	-502.70	5,086.82	5,014.35	72.48	70.187	
15,400.00	10,500.00	9,871.00	9,799.81	77.33	38.86	-46.59	533.44	-502.70	5,184.75	5,112.22	72.53	71.480	
15,500.00	10,500.00	9,871.00	9,799.81	78.57	38.86	-46.59	533.44	-502.70	5,282.76	5,210.17	72.59	72.772	
15,600.00	10,500.00	9,871.00	9,799.81	79.82	38.86	-46.59	533.44	-502.70	5,380.84	5,308.19	72.65	74.063	
15,700.00	10,500.00	9,871.00	9,799.81	81.08	38.86	-46.59	533.44	-502.70	5,479.00	5,406.28	72.71	75.353	
15,800.00	10,500.00	9,871.00	9,799.81	82.35	38.86	-46.59	533.44	-502.70	5,577.21	5,504.44	72.77	76.641	
15,900.00	10,500.00	9,871.00	9,799.81	83.62	38.86	-46.59	533.44	-502.70	5,675.49	5,602.66	72.83	77.929	
16,000.00	10,500.00	9,826.49	9,756.08	84.89	38.79	-44.90	525.29	-502.26	5,771.44	5,699.37	72.07	80.082	
16,100.00	10,500.00	9,825.55	9,755.15	86.17	38.79	-44.87	525.17	-502.26	5,869.73	5,797.62	72.11	81.396	
16,200.00	10,500.00	9,824.64	9,754.24	87.46	38.79	-44.83	525.05	-502.25	5,968.08	5,895.92	72.16	82.707	
16,300.00	10,500.00	9,823.76	9,753.37	88.75	38.79	-44.80	524.93	-502.24	6,066.48	5,994.28	72.20	84.017	
16,400.00	10,500.00	9,822.90	9,752.52	90.04	38.79	-44.77	524.83	-502.24	6,164.93	6,092.68	72.25	85.326	
16,500.00	10,500.00	9,822.07	9,751.70	91.34	38.79	-44.74	524.72	-502.23	6,263.43	6,191.13	72.30	86.632	
16,600.00	10,500.00	9,821.27	9,750.90	92.65	38.78	-44.71	524.62	-502.23	6,361.97	6,289.63	72.35	87.936	
16,700.00	10,500.00	9,820.49	9,750.12	93.95	38.78	-44.68	524.53	-502.22	6,460.56	6,388.16	72.40	89.238	
16,800.00	10,500.00	9,776.00	9,705.76	95.26	38.72	-43.07	521.45	-502.03	6,561.48	6,489.83	71.66	91.567	
16,900.00	10,500.00	9,776.00	9,705.76	96.58	38.72	-43.07	521.45	-502.03	6,660.07	6,588.35	71.72	92.859	
17,000.00	10,500.00	9,776.00	9,705.76	97.90	38.72	-43.07	521.45	-502.03	6,758.70	6,686.92	71.79	94.149	
17,100.00	10,500.00	9,776.00	9,705.76	99.22	38.72	-43.07	521.45	-502.03	6,857.37	6,785.52	71.85	95.437	
17,200.00	10,500.00	9,776.00	9,705.76	100.54	38.72	-43.07	521.45	-502.03	6,956.08	6,884.16	71.92	96.722	
17,300.00	10,500.00	9,776.00	9,705.76	101.87	38.72	-43.07	521.45	-502.03	7,054.83	6,982.84	71.98	98.005	
17,400.00	10,500.00	9,776.00	9,705.76	103.20	38.72	-43.07	521.45	-502.03	7,153.61	7,081.56	72.05	99.286	
17,500.00	10,500.00	9,776.00	9,705.76	104.53	38.72	-43.07	521.45	-502.03	7,252.42	7,180.30	72.12	100.564	
17,600.00	10,500.00	9,776.00	9,705.76	105.87	38.72	-43.07	521.45	-502.03	7,351.27	7,279.08	72.19	101.839	
17,700.00	10,500.00	9,776.00	9,705.76	107.21	38.72	-43.07	521.45	-502.03	7,450.14	7,377.89	72.25	103.112	
17,800.00	10,500.00	9,776.00	9,705.76	108.55	38.72	-43.07	521.45	-502.03	7,549.05	7,476.73	72.32	104.382	
17,900.00	10,500.00	9,776.00	9,705.76	109.89	38.72	-43.07	521.45	-502.03	7,647.98	7,575.59	72.39	105.649	
18,000.00	10,500.00	9,776.00	9,705.76	111.24	38.72	-43.07	521.45	-502.03	7,746.94	7,674.48	72.46	106.914	
18,100.00	10,500.00	9,776.00	9,705.76	112.59	38.72	-43.07	521.45	-502.03	7,845.93	7,773.40	72.53	108.176	
18,200.00	10,500.00	9,776.00	9,705.76	113.94	38.72	-43.07	521.45	-502.03	7,944.94	7,872.34	72.60	109.435	
18,280.05	10,500.00	9,776.00	9,705.76	115.02	38.72	-43.07	521.45	-502.03	8,024.22	7,951.57	72.66	110.440	

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



Aim Directional Services, LLC

Anticollision Report

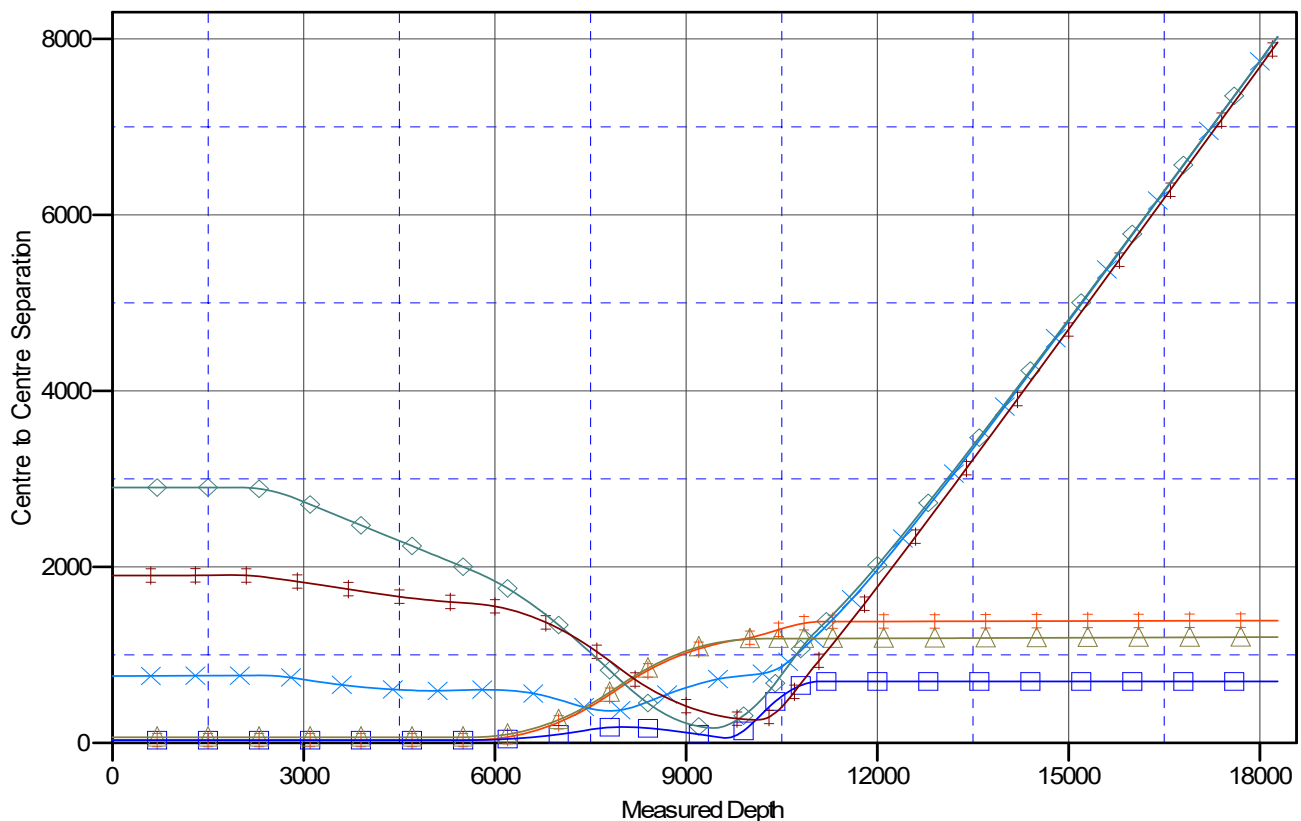


Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	Survey Calculation Method:	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 @ 3499.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 504H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

305H, Planning, Plan 0.1 V0	303H, OH, ACPlan V0	509H, Planning, Plan 0.1 V0
505H, OH / 6826, Surveys (H&P 296) V0	304H, Planning, Plan 0.1 V0	504H, OH / 6821, Surveys (H&P 618) 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 504H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 504H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	504H	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 @ 3499.00usft

Offset Depths are relative to Offset Datum

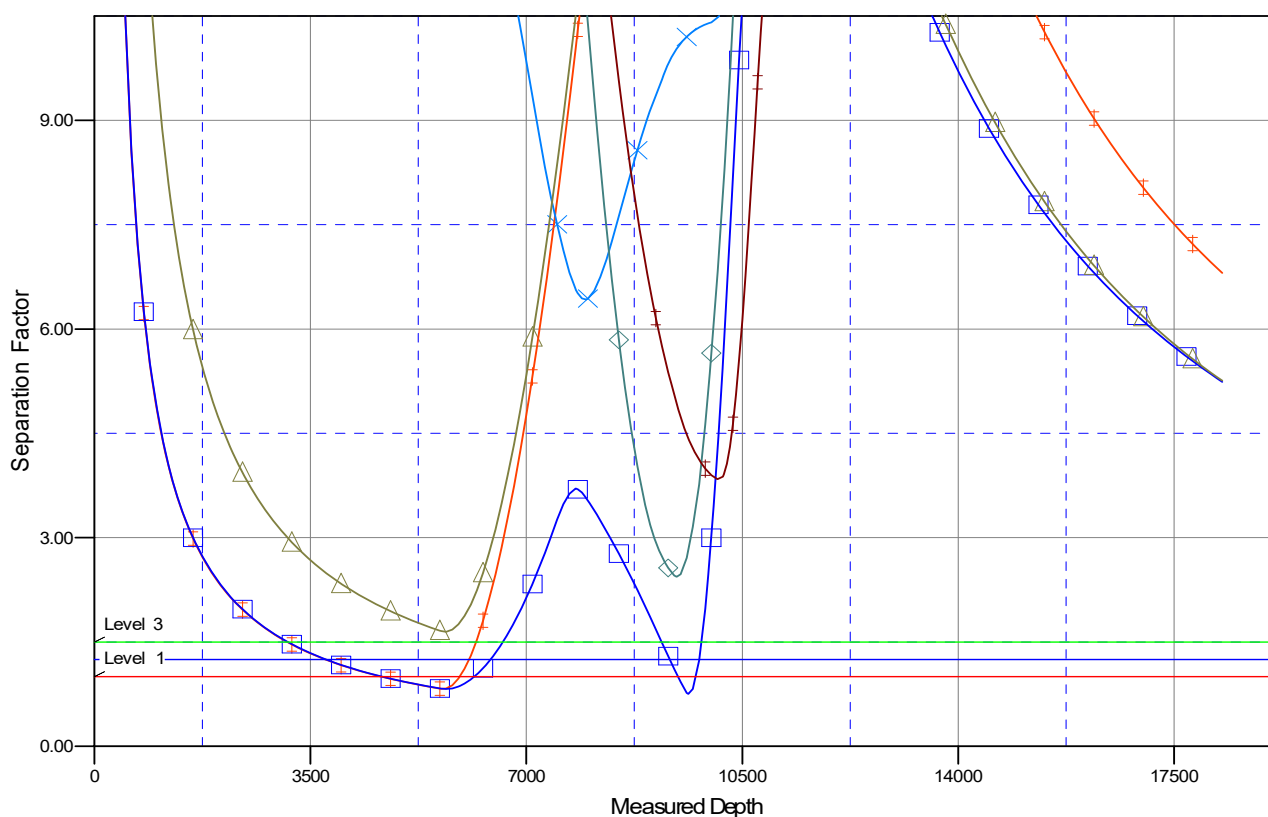
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 504H

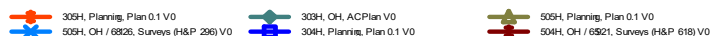
Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND



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



Golden Tee 31 Fed Com 504H
Lea Co., NM (NAD 83)
Job No. WT-22-***
Plan 0.1



SECTION DETAILS

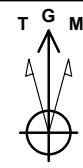
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	
2	5620.00	0.00	0.00	5620.00	0.00	0.00	0.000	0.00	0.00	Build: 1.474°/100'
3	7834.82	32.65	285.03	7716.89	159.31	-593.13	1.474	285.03	-163.45	Hold: 32.65° Inc, 285.03° Azm
4	7969.34	32.65	285.03	7830.15	178.14	-663.22	0.000	0.00	-182.76	Drop: 1.474°/100'
5	10184.16	0.00	0.00	9927.04	337.45	-1256.35	1.474	180.00	-346.21	KOP: 10°/100' @ 10184.16' MD
6	11084.16	90.00	179.60	10500.00	-235.50	-1252.35	10.000	179.60	226.75	LP: 11084.16' MD, 90.00° Inc, 179.60° Azm
7	18280.05	90.00	179.60	10500.00	-7431.21	-1202.10	0.000	0.00	7422.64	PBHL @ 18280.05' MD/10500.00' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
504H VP	9927.04	337.45	-1256.35	494222.94	827370.62	32° 21' 19.036 N	103° 24' 25.337 W
504H FTP	10500.00	287.45	-1255.84	494172.94	827371.13	32° 21' 18.541 N	103° 24' 25.336 W
504H LTP/PBHL	10500.00	-7431.21	-1202.10	486454.28	827424.87	32° 20' 2.164 N	103° 24' 25.488 W

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

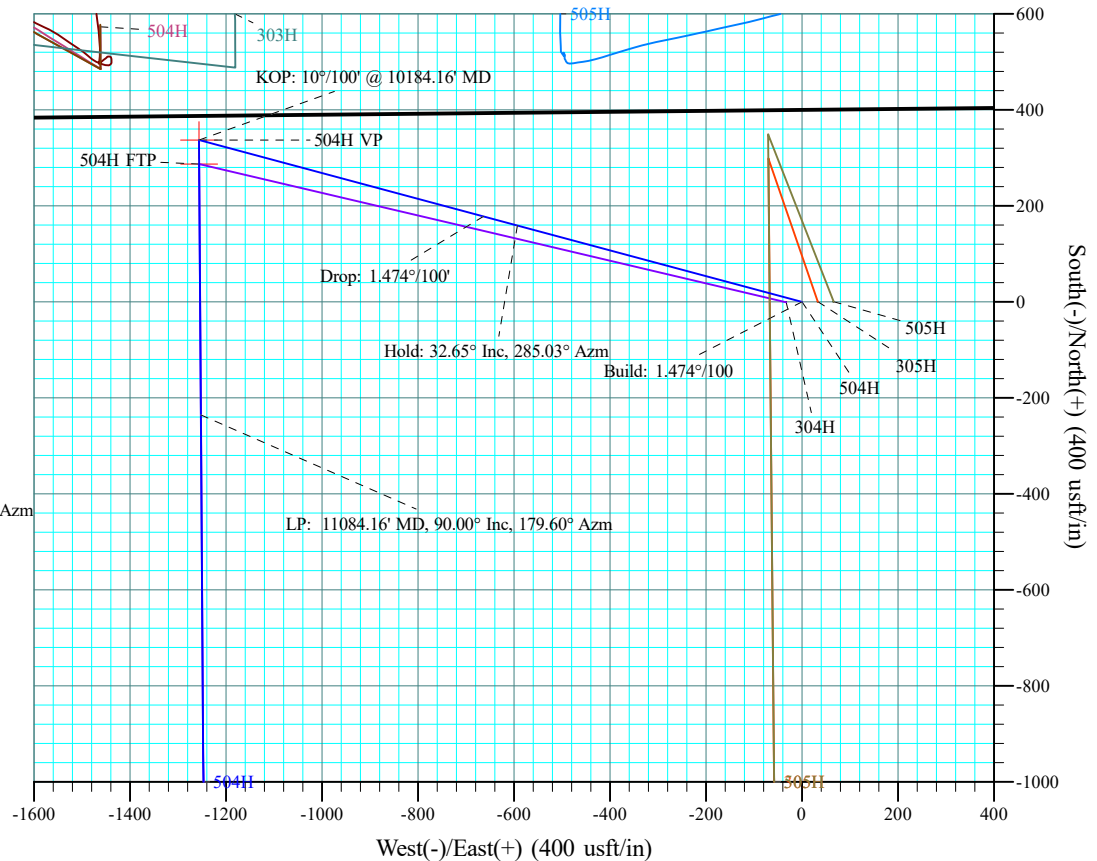
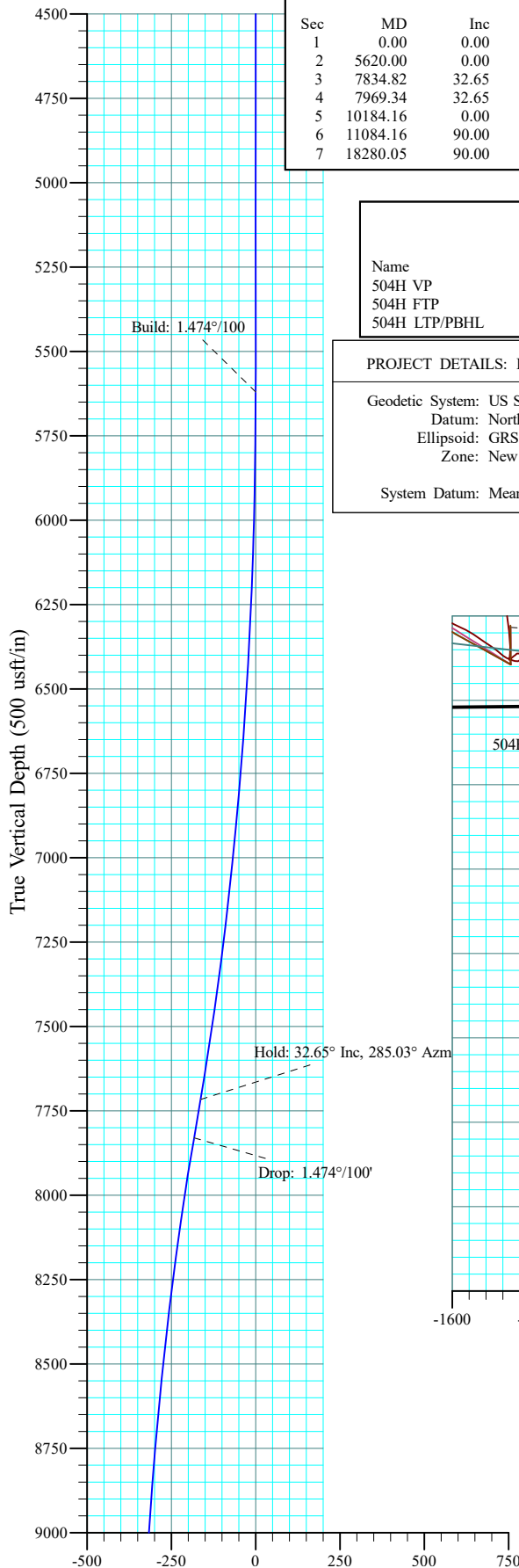
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



Azimuths to Grid North
 True North: -0.50°
 Magnetic North: 5.90°
 Magnetic Field
 Strength: 47715.6nT
 Dip Angle: 59.97°
 Date: 4/1/2022
 Model: MVHD

SITE DETAILS: Golden Tee 31 Fed Com 504H

Site Centre Northing: 493885.49
 Easting: 828626.97
 Positional Uncertainty: 0.00
 Convergence: 0.50
 Local North: Grid



Released for Imaging: 5/10/2022 10:11:49 AM

Received by OCD: 5/6/2022 11:01:13 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: 1.474°/100
3	7834.82	32.65	285.03	7716.89	159.31	-593.13	1.474	285.03	-163.45		Hold: 32.65° Inc, 285.03° Azm
4	7969.34	32.65	285.03	7830.15	178.14	-663.22	0.000	0.00	-182.76		Drop: 1.474°/100'
5	10184.16	0.00	0.00	9927.04	337.45	-1256.35	1.474	180.00	-346.21	504H VP	KOP: 10°/100' @ 10184.16' MD
6	11084.16	90.00	179.60	10500.00	-235.50	-1252.35	10.000	179.60	226.75		LP: 11084.16' MD, 90.00° Inc, 179.60° Azm
7	18280.05	90.00	179.60	10500.00	-7431.21	-1202.10	0.000	0.00	7422.64	504H LTP/PBHL	PBHL @ 18280.05' MD/10500.00' TVD

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
504H VP	9927.04	337.45	-1256.35	494222.94	827370.62	32° 21' 19.036 N 103° 24' 25.337 W	
504H FTP	10500.00	287.45	-1255.84	494172.94	827371.13	32° 21' 18.541 N 103° 24' 25.336 W	
504H LTP/PBHL	10500.00	-7431.21	-1202.10	486454.28	827424.87	32° 20' 2.164 N 103° 24' 25.488 W	

SITE DETAILS: Golden Tee 31 Fed Com 504H
Site Centre Northing: 493885.49 Easting: 828626.97
Positional Uncertainty: 0.00 Convergence: 0.50 Local North: Grid

PROJECT DETAILS: Lea Co., NM (NAD 83)
Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

T

G

M



Azimuths to Grid North

True North: -0.50°

Magnetic North: 5.90°

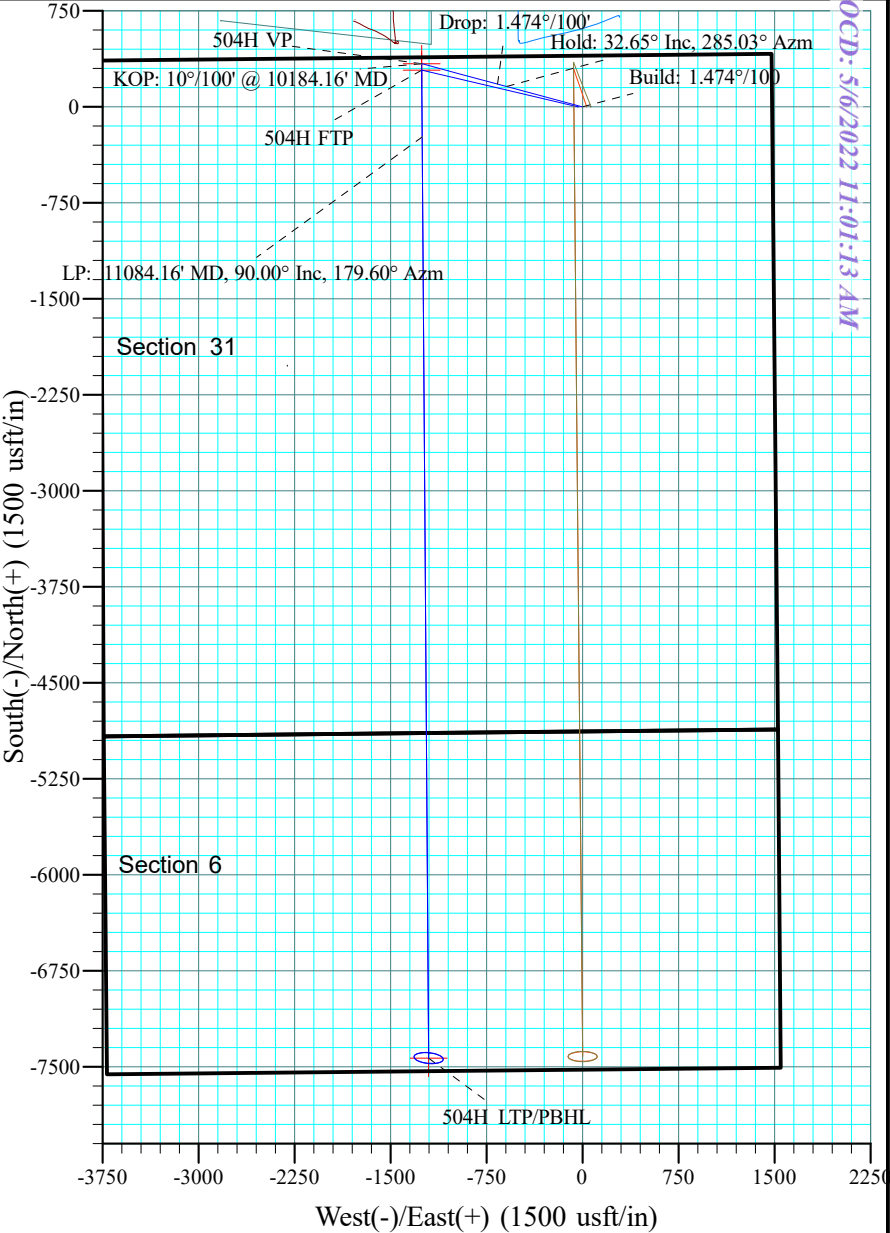
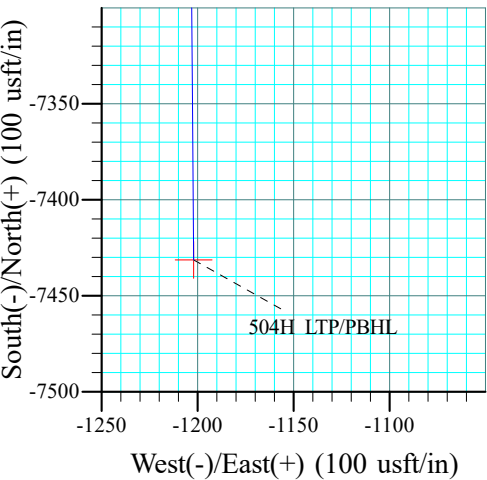
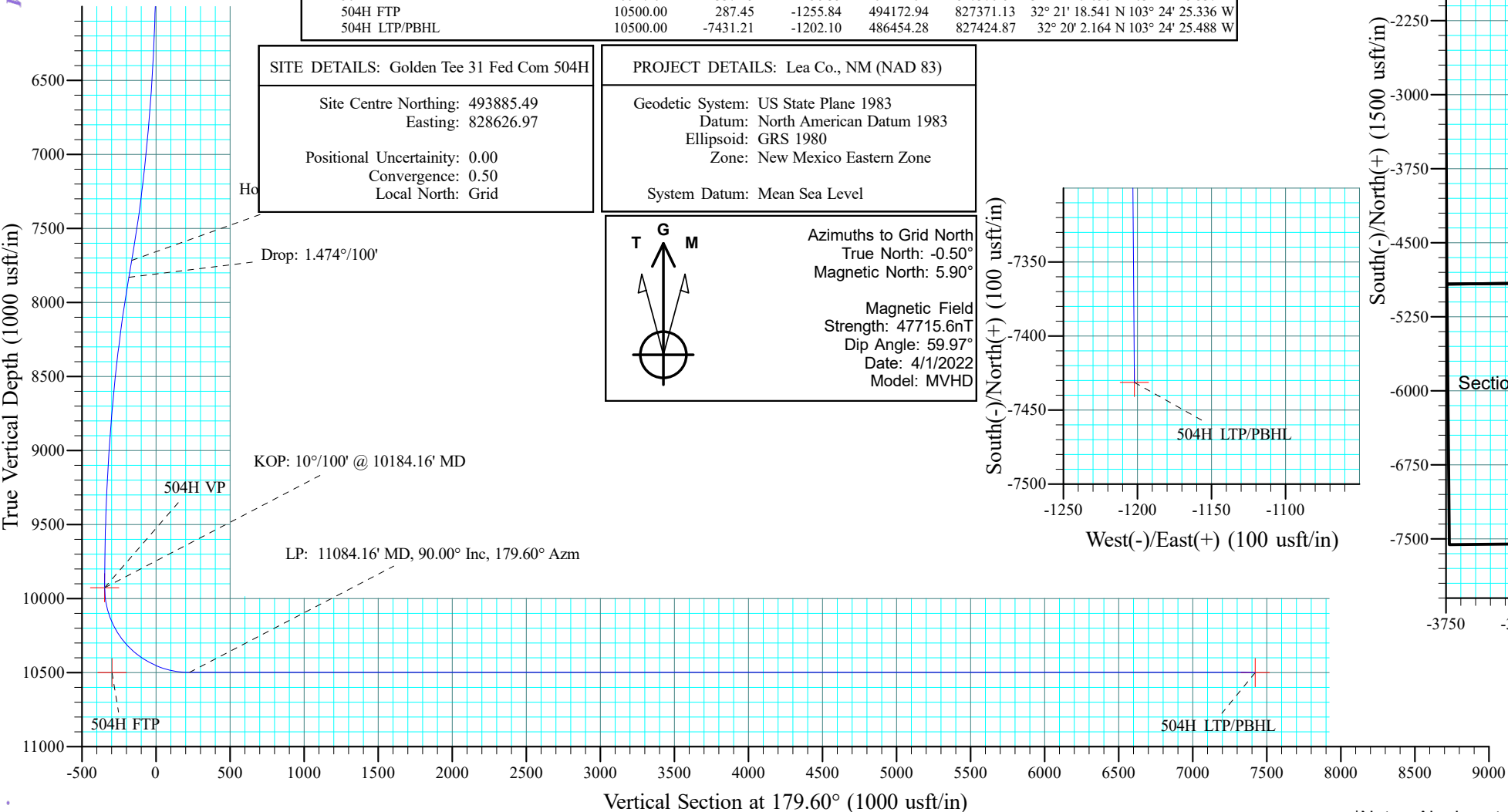
Magnetic Field

Strength: 47715.6nT

Dip Angle: 59.97°

Date: 4/1/2022

Model: MVHD





Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 504H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3499.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3499.00usft
Site:	Golden Tee 31 Fed Com 504H	North Reference:	Grid
Well:	504H	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 504H											
Site Position:			Northing:			493,885.49 usft			Latitude:			32° 21' 15.589 N					
From:			Map			Easting:			828,626.97 usft			Longitude:			103° 24' 10.726 W		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			0.50		

Well	504H					
Well Position	+N/-S	0.00 usft	Northing:	493,885.49 usft	Latitude:	32° 21' 15.589 N
	+E/-W	0.00 usft	Easting:	828,626.97 usft	Longitude:	103° 24' 10.726 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,474.00 usft

Wellbore	Planning				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	4/1/2022	6.40	59.97	47,715.621

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	179.60

Plan Survey Tool Program	Date	2/9/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,280.05	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	
7,834.82	32.65	285.03	7,716.89	159.31	-593.13	1.474	1.474	0.000	285.03	
7,969.34	32.65	285.03	7,830.15	178.14	-663.22	0.000	0.000	0.000	0.00	
10,184.16	0.00	0.00	9,927.04	337.45	-1,256.35	1.474	-1.474	0.000	180.00	504H VP
11,084.16	90.00	179.60	10,500.00	-235.50	-1,252.35	10.000	10.000	19.956	179.60	
18,280.05	90.00	179.60	10,500.00	-7,431.21	-1,202.10	0.000	0.000	0.000	0.00	504H LTP/PBHL



Aim Directional Services, LLC

Planning Report



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Company:	Avant Operating, LLC	TVD Reference:	Well @ 3499.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3499.00usft
Site:	Golden Tee 31 Fed Com 504H	North Reference:	Grid
Well:	504H	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



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Company:	Avant Operating, LLC	TVD Reference:	Well @ 3499.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3499.00usft
Site:	Golden Tee 31 Fed Com 504H	North Reference:	Grid
Well:	504H	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: 1.474°/100'									
5,700.00	1.18	285.03	5,699.99	0.21	-0.80	-0.22	1.474	1.474	0.000
5,800.00	2.65	285.03	5,799.94	1.08	-4.02	-1.11	1.474	1.474	0.000
5,900.00	4.13	285.03	5,899.76	2.62	-9.74	-2.68	1.474	1.474	0.000
6,000.00	5.60	285.03	5,999.40	4.81	-17.93	-4.94	1.474	1.474	0.000
6,100.00	7.08	285.03	6,098.78	7.68	-28.59	-7.88	1.474	1.474	0.000
6,200.00	8.55	285.03	6,197.85	11.20	-41.72	-11.50	1.474	1.474	0.000
6,300.00	10.02	285.03	6,296.54	15.39	-57.30	-15.79	1.474	1.474	0.000
6,400.00	11.50	285.03	6,394.78	20.23	-75.33	-20.76	1.474	1.474	0.000
6,500.00	12.97	285.03	6,492.50	25.73	-95.80	-26.40	1.474	1.474	0.000
6,600.00	14.45	285.03	6,589.65	31.88	-118.69	-32.71	1.474	1.474	0.000
6,700.00	15.92	285.03	6,686.16	38.67	-143.98	-39.68	1.474	1.474	0.000
6,800.00	17.39	285.03	6,781.96	46.11	-171.66	-47.31	1.474	1.474	0.000
6,900.00	18.87	285.03	6,876.99	54.18	-201.72	-55.59	1.474	1.474	0.000
7,000.00	20.34	285.03	6,971.19	62.88	-234.12	-64.52	1.474	1.474	0.000
7,100.00	21.82	285.03	7,064.49	72.21	-268.86	-74.09	1.474	1.474	0.000
7,200.00	23.29	285.03	7,156.84	82.16	-305.90	-84.30	1.474	1.474	0.000
7,300.00	24.77	285.03	7,248.17	92.73	-345.22	-95.13	1.474	1.474	0.000
7,400.00	26.24	285.03	7,338.43	103.89	-386.80	-106.59	1.474	1.474	0.000
7,500.00	27.71	285.03	7,427.55	115.66	-430.61	-118.66	1.474	1.474	0.000
7,600.00	29.19	285.03	7,515.47	128.02	-476.62	-131.34	1.474	1.474	0.000
7,700.00	30.66	285.03	7,602.13	140.96	-524.80	-144.62	1.474	1.474	0.000
7,800.00	32.14	285.03	7,687.49	154.47	-575.11	-158.48	1.474	1.474	0.000
7,834.82	32.65	285.03	7,716.89	159.31	-593.13	-163.45	1.474	1.474	0.000
Hold: 32.65° Inc, 285.03° Azm									
7,900.00	32.65	285.03	7,771.77	168.43	-627.09	-172.81	0.000	0.000	0.000
7,969.34	32.65	285.03	7,830.15	178.14	-663.22	-182.76	0.000	0.000	0.000
Drop: 1.474°/100'									
8,000.00	32.20	285.03	7,856.03	182.40	-679.09	-187.14	1.474	-1.474	0.000
8,100.00	30.72	285.03	7,941.33	195.94	-729.50	-201.03	1.474	-1.474	0.000
8,200.00	29.25	285.03	8,027.94	208.90	-777.76	-214.33	1.474	-1.474	0.000
8,300.00	27.77	285.03	8,115.81	221.28	-823.86	-227.03	1.474	-1.474	0.000
8,400.00	26.30	285.03	8,204.88	233.08	-867.76	-239.13	1.474	-1.474	0.000
8,500.00	24.83	285.03	8,295.09	244.27	-909.44	-250.61	1.474	-1.474	0.000
8,600.00	23.35	285.03	8,386.38	254.86	-948.85	-261.47	1.474	-1.474	0.000
8,700.00	21.88	285.03	8,478.68	264.83	-985.99	-271.71	1.474	-1.474	0.000
8,800.00	20.40	285.03	8,571.95	274.19	-1,020.82	-281.31	1.474	-1.474	0.000
8,900.00	18.93	285.03	8,666.11	282.92	-1,053.33	-290.26	1.474	-1.474	0.000
9,000.00	17.46	285.03	8,761.11	291.02	-1,083.48	-298.57	1.474	-1.474	0.000
9,100.00	15.98	285.03	8,856.88	298.48	-1,111.26	-306.23	1.474	-1.474	0.000
9,200.00	14.51	285.03	8,953.36	305.30	-1,136.65	-313.23	1.474	-1.474	0.000
9,300.00	13.03	285.03	9,050.48	311.47	-1,159.64	-319.56	1.474	-1.474	0.000
9,400.00	11.56	285.03	9,148.19	317.00	-1,180.21	-325.23	1.474	-1.474	0.000
9,500.00	10.09	285.03	9,246.41	321.87	-1,198.34	-330.23	1.474	-1.474	0.000
9,600.00	8.61	285.03	9,345.08	326.08	-1,214.03	-334.55	1.474	-1.474	0.000
9,700.00	7.14	285.03	9,444.13	329.64	-1,227.26	-338.19	1.474	-1.474	0.000
9,800.00	5.66	285.03	9,543.50	332.53	-1,238.03	-341.16	1.474	-1.474	0.000
9,900.00	4.19	285.03	9,643.13	334.75	-1,246.32	-343.45	1.474	-1.474	0.000
10,000.00	2.71	285.03	9,742.95	336.32	-1,252.13	-345.05	1.474	-1.474	0.000



Aim Directional Services, LLC

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Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3499.00usft
Site:	Golden Tee 31 Fed Com 504H	North Reference:	Grid
Well:	504H	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)
10,100.00	1.24	285.03	9,842.89	337.21	-1,255.47	-345.97	1.474	-1.474	0.000
10,184.16	0.00	0.00	9,927.04	337.45	-1,256.35	-346.21	1.474	-1.474	0.000
KOP: 10°/100' @ 10184.16' MD									
10,200.00	1.58	179.60	9,942.88	337.23	-1,256.34	-345.99	10.000	10.000	0.000
10,250.00	6.58	179.60	9,992.73	333.67	-1,256.32	-342.43	10.000	10.000	0.000
10,300.00	11.58	179.60	10,042.09	325.78	-1,256.26	-334.54	10.000	10.000	0.000
10,350.00	16.58	179.60	10,090.57	313.61	-1,256.18	-322.38	10.000	10.000	0.000
10,400.00	21.58	179.60	10,137.81	297.27	-1,256.07	-306.03	10.000	10.000	0.000
10,450.00	26.58	179.60	10,183.44	276.88	-1,255.92	-285.64	10.000	10.000	0.000
10,500.00	31.58	179.60	10,227.12	252.58	-1,255.75	-261.34	10.000	10.000	0.000
10,550.00	36.58	179.60	10,268.52	224.57	-1,255.56	-233.33	10.000	10.000	0.000
10,600.00	41.58	179.60	10,307.32	193.06	-1,255.34	-201.82	10.000	10.000	0.000
10,650.00	46.58	179.60	10,343.23	158.28	-1,255.09	-167.04	10.000	10.000	0.000
10,700.00	51.58	179.60	10,375.96	120.51	-1,254.83	-129.27	10.000	10.000	0.000
10,750.00	56.58	179.60	10,405.28	80.03	-1,254.55	-88.79	10.000	10.000	0.000
10,800.00	61.58	179.60	10,430.96	37.15	-1,254.25	-45.91	10.000	10.000	0.000
10,850.00	66.58	179.60	10,452.81	-7.81	-1,253.94	-0.95	10.000	10.000	0.000
10,900.00	71.58	179.60	10,470.65	-54.49	-1,253.61	45.74	10.000	10.000	0.000
10,950.00	76.58	179.60	10,484.36	-102.56	-1,253.27	93.81	10.000	10.000	0.000
11,000.00	81.58	179.60	10,493.83	-151.64	-1,252.93	142.89	10.000	10.000	0.000
11,050.00	86.58	179.60	10,498.98	-201.36	-1,252.58	192.61	10.000	10.000	0.000
11,084.16	90.00	179.60	10,500.00	-235.50	-1,252.35	226.75	10.000	10.000	0.000
LP: 11084.16' MD, 90.00° Inc, 179.60° Azm									
11,100.00	90.00	179.60	10,500.00	-251.34	-1,252.23	242.59	0.000	0.000	0.000
11,200.00	90.00	179.60	10,500.00	-351.33	-1,251.54	342.59	0.000	0.000	0.000
11,300.00	90.00	179.60	10,500.00	-451.33	-1,250.84	442.59	0.000	0.000	0.000
11,400.00	90.00	179.60	10,500.00	-551.33	-1,250.14	542.59	0.000	0.000	0.000
11,500.00	90.00	179.60	10,500.00	-651.33	-1,249.44	642.59	0.000	0.000	0.000
11,600.00	90.00	179.60	10,500.00	-751.32	-1,248.74	742.59	0.000	0.000	0.000
11,700.00	90.00	179.60	10,500.00	-851.32	-1,248.05	842.59	0.000	0.000	0.000
11,800.00	90.00	179.60	10,500.00	-951.32	-1,247.35	942.59	0.000	0.000	0.000
11,900.00	90.00	179.60	10,500.00	-1,051.32	-1,246.65	1,042.59	0.000	0.000	0.000
12,000.00	90.00	179.60	10,500.00	-1,151.31	-1,245.95	1,142.59	0.000	0.000	0.000
12,100.00	90.00	179.60	10,500.00	-1,251.31	-1,245.25	1,242.59	0.000	0.000	0.000
12,200.00	90.00	179.60	10,500.00	-1,351.31	-1,244.55	1,342.59	0.000	0.000	0.000
12,300.00	90.00	179.60	10,500.00	-1,451.31	-1,243.86	1,442.59	0.000	0.000	0.000
12,400.00	90.00	179.60	10,500.00	-1,551.30	-1,243.16	1,542.59	0.000	0.000	0.000
12,500.00	90.00	179.60	10,500.00	-1,651.30	-1,242.46	1,642.59	0.000	0.000	0.000
12,600.00	90.00	179.60	10,500.00	-1,751.30	-1,241.76	1,742.59	0.000	0.000	0.000
12,700.00	90.00	179.60	10,500.00	-1,851.30	-1,241.06	1,842.59	0.000	0.000	0.000
12,800.00	90.00	179.60	10,500.00	-1,951.29	-1,240.36	1,942.59	0.000	0.000	0.000
12,900.00	90.00	179.60	10,500.00	-2,051.29	-1,239.67	2,042.59	0.000	0.000	0.000
13,000.00	90.00	179.60	10,500.00	-2,151.29	-1,238.97	2,142.59	0.000	0.000	0.000
13,100.00	90.00	179.60	10,500.00	-2,251.29	-1,238.27	2,242.59	0.000	0.000	0.000
13,200.00	90.00	179.60	10,500.00	-2,351.28	-1,237.57	2,342.59	0.000	0.000	0.000
13,300.00	90.00	179.60	10,500.00	-2,451.28	-1,236.87	2,442.59	0.000	0.000	0.000
13,400.00	90.00	179.60	10,500.00	-2,551.28	-1,236.17	2,542.59	0.000	0.000	0.000
13,500.00	90.00	179.60	10,500.00	-2,651.28	-1,235.48	2,642.59	0.000	0.000	0.000
13,600.00	90.00	179.60	10,500.00	-2,751.27	-1,234.78	2,742.59	0.000	0.000	0.000
13,700.00	90.00	179.60	10,500.00	-2,851.27	-1,234.08	2,842.59	0.000	0.000	0.000
13,800.00	90.00	179.60	10,500.00	-2,951.27	-1,233.38	2,942.59	0.000	0.000	0.000
13,900.00	90.00	179.60	10,500.00	-3,051.27	-1,232.68	3,042.59	0.000	0.000	0.000
14,000.00	90.00	179.60	10,500.00	-3,151.26	-1,231.99	3,142.59	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 504H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3499.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3499.00usft
Site:	Golden Tee 31 Fed Com 504H	North Reference:	Grid
Well:	504H	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)
14,100.00	90.00	179.60	10,500.00	-3,251.26	-1,231.29	3,242.59	0.000	0.000	0.000
14,200.00	90.00	179.60	10,500.00	-3,351.26	-1,230.59	3,342.59	0.000	0.000	0.000
14,300.00	90.00	179.60	10,500.00	-3,451.26	-1,229.89	3,442.59	0.000	0.000	0.000
14,400.00	90.00	179.60	10,500.00	-3,551.26	-1,229.19	3,542.59	0.000	0.000	0.000
14,500.00	90.00	179.60	10,500.00	-3,651.25	-1,228.49	3,642.59	0.000	0.000	0.000
14,600.00	90.00	179.60	10,500.00	-3,751.25	-1,227.80	3,742.59	0.000	0.000	0.000
14,700.00	90.00	179.60	10,500.00	-3,851.25	-1,227.10	3,842.59	0.000	0.000	0.000
14,800.00	90.00	179.60	10,500.00	-3,951.25	-1,226.40	3,942.59	0.000	0.000	0.000
14,900.00	90.00	179.60	10,500.00	-4,051.24	-1,225.70	4,042.59	0.000	0.000	0.000
15,000.00	90.00	179.60	10,500.00	-4,151.24	-1,225.00	4,142.59	0.000	0.000	0.000
15,100.00	90.00	179.60	10,500.00	-4,251.24	-1,224.30	4,242.59	0.000	0.000	0.000
15,200.00	90.00	179.60	10,500.00	-4,351.24	-1,223.61	4,342.59	0.000	0.000	0.000
15,300.00	90.00	179.60	10,500.00	-4,451.23	-1,222.91	4,442.59	0.000	0.000	0.000
15,400.00	90.00	179.60	10,500.00	-4,551.23	-1,222.21	4,542.59	0.000	0.000	0.000
15,500.00	90.00	179.60	10,500.00	-4,651.23	-1,221.51	4,642.59	0.000	0.000	0.000
15,600.00	90.00	179.60	10,500.00	-4,751.23	-1,220.81	4,742.59	0.000	0.000	0.000
15,700.00	90.00	179.60	10,500.00	-4,851.22	-1,220.12	4,842.59	0.000	0.000	0.000
15,800.00	90.00	179.60	10,500.00	-4,951.22	-1,219.42	4,942.59	0.000	0.000	0.000
15,900.00	90.00	179.60	10,500.00	-5,051.22	-1,218.72	5,042.59	0.000	0.000	0.000
16,000.00	90.00	179.60	10,500.00	-5,151.22	-1,218.02	5,142.59	0.000	0.000	0.000
16,100.00	90.00	179.60	10,500.00	-5,251.21	-1,217.32	5,242.59	0.000	0.000	0.000
16,200.00	90.00	179.60	10,500.00	-5,351.21	-1,216.62	5,342.59	0.000	0.000	0.000
16,300.00	90.00	179.60	10,500.00	-5,451.21	-1,215.93	5,442.59	0.000	0.000	0.000
16,400.00	90.00	179.60	10,500.00	-5,551.21	-1,215.23	5,542.59	0.000	0.000	0.000
16,500.00	90.00	179.60	10,500.00	-5,651.20	-1,214.53	5,642.59	0.000	0.000	0.000
16,600.00	90.00	179.60	10,500.00	-5,751.20	-1,213.83	5,742.59	0.000	0.000	0.000
16,700.00	90.00	179.60	10,500.00	-5,851.20	-1,213.13	5,842.59	0.000	0.000	0.000
16,800.00	90.00	179.60	10,500.00	-5,951.20	-1,212.43	5,942.59	0.000	0.000	0.000
16,900.00	90.00	179.60	10,500.00	-6,051.19	-1,211.74	6,042.59	0.000	0.000	0.000
17,000.00	90.00	179.60	10,500.00	-6,151.19	-1,211.04	6,142.59	0.000	0.000	0.000
17,100.00	90.00	179.60	10,500.00	-6,251.19	-1,210.34	6,242.59	0.000	0.000	0.000
17,200.00	90.00	179.60	10,500.00	-6,351.19	-1,209.64	6,342.59	0.000	0.000	0.000
17,300.00	90.00	179.60	10,500.00	-6,451.18	-1,208.94	6,442.59	0.000	0.000	0.000
17,400.00	90.00	179.60	10,500.00	-6,551.18	-1,208.24	6,542.59	0.000	0.000	0.000
17,500.00	90.00	179.60	10,500.00	-6,651.18	-1,207.55	6,642.59	0.000	0.000	0.000
17,600.00	90.00	179.60	10,500.00	-6,751.18	-1,206.85	6,742.59	0.000	0.000	0.000
17,700.00	90.00	179.60	10,500.00	-6,851.17	-1,206.15	6,842.59	0.000	0.000	0.000
17,800.00	90.00	179.60	10,500.00	-6,951.17	-1,205.45	6,942.59	0.000	0.000	0.000
17,900.00	90.00	179.60	10,500.00	-7,051.17	-1,204.75	7,042.59	0.000	0.000	0.000
18,000.00	90.00	179.60	10,500.00	-7,151.17	-1,204.06	7,142.59	0.000	0.000	0.000
18,100.00	90.00	179.60	10,500.00	-7,251.17	-1,203.36	7,242.59	0.000	0.000	0.000
18,200.00	90.00	179.60	10,500.00	-7,351.16	-1,202.66	7,342.59	0.000	0.000	0.000
18,280.05	90.00	179.60	10,500.00	-7,431.21	-1,202.10	7,422.64	0.000	0.000	0.000
PBHL @ 18280.05' MD/10500.00' TVD									



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 504H
Company:	Avant Operating, LLC	TVD Reference:	Well @ 3499.00usft
Project:	Lea Co., NM (NAD 83)	MD Reference:	Well @ 3499.00usft
Site:	Golden Tee 31 Fed Com 504H	North Reference:	Grid
Well:	504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

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: 1.474°/100
7,834.82	7,716.89	159.31	-593.13	Hold: 32.65° Inc, 285.03° Azm
7,969.34	7,830.15	178.14	-663.22	Drop: 1.474°/100'
10,184.16	9,927.04	337.45	-1,256.35	KOP: 10°/100' @ 10184.16' MD
11,084.16	10,500.00	-235.50	-1,252.35	LP: 11084.16' MD, 90.00° Inc, 179.60° Azm
18,280.05	10,500.00	-7,431.21	-1,202.10	PBHL @ 18280.05' MD/10500.00' 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 104951

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 104951
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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