

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

Well Name: GOLDEN TEE 31 FED COM	Well Location: T22S / R35E / SEC 31 / NENE /	County or Parish/State:
Well Number: 305H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM128836	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549328	Well Status: Approved Application for Permit to Drill	Operator: AVANT OPERATING LLC

Notice of Intent

Sundry ID: 2663046

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 03/21/2022

Time Sundry Submitted: 10:07

Date proposed operation will begin: 03/28/2022

Procedure Description: Request to move SHL from 700' FNL & 430' FEL (Pad 2) to 400' FNL & 1448' FEL (Pad 4). Request to move BHL 294' west from 2540' FNL & 1254' FEL to 2540' FNL & 1548' FEL. TVD will change from 9880' to 9800'. MD will change from 17490' to 17329'. 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_Plat_20220321100355.pdf

AC_Report_20220321100341.pdf

Well_Bore_20220321100328.pdf

Well Name: GOLDEN TEE 31 FED
COM**Well Location:** T22S / R35E / SEC 31 /
NENE /**County or Parish/State:****Well Number:** 305H**Type of Well:** OIL WELL**Allottee or Tribe Name:****Lease Number:** NMNM128836**Unit or CA Name:****Unit or CA Number:****US Well Number:** 3002549328**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 12:26 PM**Name:** AVANT OPERATING LLC**Title:** President**Street Address:** 37 VERANO LOOP**City:** SANTA FE**State:** NM**Phone:** (505) 466-8120**Email address:** AFMSS@PERMITSWEST.COM

Field

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

BLM Point of Contact

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49328	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 305H
⁷ OGRID 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	1448	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
G	6	23 S	35 E		2540	North	1548	East	Lea

¹² Dedicated Acres 240.15	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= 493885.93 N
X= 828659.90 E
LAT.= 32.3543307° N
LONG.= 103.4028727° W

FIRST TAKE POINT
NAD 83 NMSPC ZONE 3001
100' FNL, 1548' FEL
SEC. 31, T22S, R35E
Y= 494184.89 N
X= 828557.03 E
LAT.= 32.3551549° N
LONG.= 103.4031974° W

LAST TAKE POINT
NAD 83 NMSPC ZONE 3001
2540' FNL, 1548' FEL
SEC. 6, T23S, R35E
Y= 486466.51 N
X= 828627.84 E
LAT.= 32.3339393° N
LONG.= 103.4031852° W

BOTTOM HOLE LOCATION
NAD 83 NMSPC ZONE 3001
Y= 486466.51 N
X= 828627.84 E
LAT.= 32.3339393° N
LONG.= 103.4031852° W

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

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Brian Wood
Signature **BRIAN WOOD** Date **3-19-22**

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
NEW MEXICO
17078
2-4-22
PROFESSIONAL SURVEYOR

17078
Certificate Number



Avant Operating, LLC

**Lea Co., NM (NAD 83)
Golden Tee 31 Fed Com 305H
305H**

**Planning
Plan 0.1**

Anticollision Report

09 February, 2022





Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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	17,328.76	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	65.97	26.13	1.656	CC, ES
304H - Planning - Plan 0.1	5,700.00	5,698.33	66.80	26.41	1.654	SF
Golden Tee 31 Fed Com 504H						
504H - 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	9,166.87	9,167.68	17.87	-47.72	0.272	Level 1, CC, SF
505H - Planning - Plan 0.1	9,200.00	9,200.72	18.03	-47.79	0.274	Level 1, ES
Winnebago 30 State Com						
505H - OH / 68126 - Surveys (H&P 296)	9,215.78	9,277.64	479.83	411.15	6.986	CC, ES
505H - OH / 68126 - Surveys (H&P 296)	9,350.00	9,405.34	481.92	412.34	6.926	SF
506H - OH / 68127 - Surveys (H&P 296)	9,342.98	9,360.68	464.12	402.01	7.472	CC
506H - OH / 68127 - Surveys (H&P 296)	9,350.00	9,367.76	464.14	401.99	7.468	ES
506H - OH / 68127 - Surveys (H&P 296)	9,375.00	9,393.52	464.63	402.34	7.459	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	Vertical Depth (usft)	Measured Depth (usft)	Offset	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.00	-90.68	-0.78	-65.97	65.97				
100.00	100.00	100.00	100.00	0.13	0.13	-90.68	-0.78	-65.97	-65.97	65.97	65.71	0.27	245.392	
200.00	200.00	200.00	200.00	0.49	0.49	-90.68	-0.78	-65.97	-65.97	65.97	64.99	0.99	66.925	
300.00	300.00	300.00	300.00	0.85	0.85	-90.68	-0.78	-65.97	-65.97	65.97	64.27	1.70	38.746	
400.00	400.00	400.00	400.00	1.21	1.21	-90.68	-0.78	-65.97	-65.97	65.97	63.55	2.42	27.266	
500.00	500.00	500.00	500.00	1.57	1.57	-90.68	-0.78	-65.97	-65.97	65.97	62.84	3.14	21.034	
600.00	600.00	600.00	600.00	1.93	1.93	-90.68	-0.78	-65.97	-65.97	65.97	62.12	3.85	17.120	
700.00	700.00	700.00	700.00	2.29	2.29	-90.68	-0.78	-65.97	-65.97	65.97	61.40	4.57	14.435	
800.00	800.00	800.00	800.00	2.64	2.64	-90.68	-0.78	-65.97	-65.97	65.97	60.69	5.29	12.478	
900.00	900.00	900.00	900.00	3.00	3.00	-90.68	-0.78	-65.97	-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	-90.68	-0.78	-65.97	-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	-90.68	-0.78	-65.97	-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	-90.68	-0.78	-65.97	-65.97	65.97	57.82	8.16	8.090	

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 305H
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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	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-65.97	65.97	47.78	18.19	3.626	
2,700.00	2,700.00	2,700.00	2,700.00	9.45	9.45	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-65.97	65.97	37.74	28.23	2.337	
4,100.00	4,100.00	4,100.00	4,100.00	14.47	14.47	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-65.97	65.97	29.86	36.12	1.827	
5,200.00	5,200.00	5,200.00	5,200.00	18.42	18.42	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-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	-90.68	-0.78	-65.97	65.97	26.13	39.84	1.656 CC, ES	
5,700.00	5,700.00	5,698.33	5,698.32	20.21	20.20	-71.92	-0.55	-66.96	66.80	26.41	40.39	1.654 SF	
5,800.00	5,799.97	5,796.13	5,796.03	20.57	20.54	-72.79	0.39	-70.95	70.18	29.13	41.05	1.710	
5,900.00	5,899.89	5,893.67	5,893.30	20.92	20.87	-74.13	2.05	-77.99	76.18	34.51	41.66	1.828	
6,000.00	5,999.72	5,990.81	5,989.89	21.28	21.21	-75.72	4.41	-88.02	84.83	42.58	42.25	2.008	
6,100.00	6,099.44	6,087.41	6,085.56	21.64	21.55	-77.34	7.46	-100.98	96.16	53.35	42.80	2.246	
6,197.86	6,196.88	6,181.28	6,178.08	21.99	21.88	-78.82	11.09	-116.42	109.82	66.50	43.32	2.535	
6,200.00	6,199.01	6,183.33	6,180.09	21.99	21.89	-78.85	11.18	-116.78	110.15	66.82	43.33	2.542	

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Aim Directional Services, LLC

Anticollision Report



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Reference Well:	305H	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	
6,300.00	6,298.50	6,278.45	6,273.28	22.35	22.23	-79.96	15.54	-135.32	126.94	83.11	43.83	2.896	
6,400.00	6,397.99	6,372.59	6,364.88	22.71	22.57	-80.33	20.52	-156.46	146.59	102.29	44.30	3.309	
6,500.00	6,497.49	6,465.59	6,454.66	23.07	22.91	-80.22	26.07	-180.05	169.01	124.29	44.72	3.779	
6,600.00	6,596.98	6,557.31	6,542.44	23.42	23.25	-79.80	32.16	-205.93	194.17	149.06	45.11	4.304	
6,700.00	6,696.47	6,647.60	6,628.02	23.78	23.60	-79.20	38.75	-233.92	222.01	176.55	45.46	4.883	
6,800.00	6,795.96	6,736.34	6,711.26	24.14	23.95	-78.50	45.79	-263.84	252.50	206.72	45.78	5.516	
6,900.00	6,895.45	6,823.42	6,792.04	24.51	24.31	-77.76	53.24	-295.49	285.60	239.54	46.06	6.201	
7,000.00	6,994.94	6,908.75	6,870.26	24.87	24.67	-77.02	61.05	-328.69	321.24	274.93	46.31	6.937	
7,100.00	7,094.44	6,992.25	6,945.84	25.23	25.03	-76.29	69.18	-363.23	359.37	312.84	46.53	7.724	
7,200.00	7,193.93	7,073.86	7,018.74	25.59	25.41	-75.59	77.59	-398.94	399.93	353.20	46.72	8.560	
7,300.00	7,293.42	7,153.52	7,088.91	25.95	25.79	-74.93	86.22	-435.63	442.83	395.94	46.89	9.444	
7,400.00	7,392.91	7,231.19	7,156.37	26.32	26.18	-74.31	95.04	-473.12	488.01	440.97	47.04	10.374	
7,500.00	7,492.40	7,300.00	7,215.28	26.68	26.54	-73.78	103.19	-507.72	535.44	488.54	46.90	11.418	
7,600.00	7,591.90	7,380.51	7,283.17	27.05	26.99	-73.18	113.10	-549.86	584.88	537.60	47.28	12.370	
7,700.00	7,691.39	7,452.14	7,342.57	27.41	27.40	-72.67	122.27	-588.80	636.42	589.04	47.38	13.432	
7,800.00	7,790.88	7,528.81	7,405.24	27.78	27.87	-72.16	132.39	-631.79	689.71	641.99	47.71	14.455	
7,900.00	7,890.37	7,613.07	7,473.97	28.14	28.40	-71.66	143.55	-679.23	743.31	694.97	48.34	15.378	
8,000.00	7,989.86	7,697.33	7,542.70	28.51	28.95	-71.24	154.72	-726.68	796.94	747.97	48.97	16.275	
8,100.00	8,089.36	7,800.96	7,627.71	28.87	29.64	-70.80	168.30	-784.37	850.01	799.85	50.17	16.943	
8,200.00	8,188.85	7,921.17	7,728.68	29.24	30.45	-70.44	183.24	-847.87	900.11	848.36	51.76	17.392	
8,300.00	8,288.34	8,046.83	7,836.89	29.61	31.29	-70.20	197.87	-910.02	946.78	893.41	53.36	17.742	
8,400.00	8,387.83	8,177.84	7,952.43	29.98	32.14	-70.06	212.01	-970.11	989.76	934.78	54.98	18.002	
8,500.00	8,487.32	8,314.04	8,075.26	30.34	32.99	-70.01	225.49	-1,027.36	1,028.83	972.25	56.59	18.182	
8,600.00	8,586.81	8,455.15	8,205.18	30.71	33.83	-70.06	238.10	-1,080.96	1,063.77	1,005.61	58.16	18.289	
8,700.00	8,686.31	8,600.82	8,341.83	31.08	34.66	-70.18	249.65	-1,130.05	1,094.36	1,034.67	59.69	18.334	
8,759.66	8,745.66	8,689.70	8,426.33	31.30	35.13	-70.30	255.96	-1,156.84	1,110.46	1,049.89	60.57	18.333	
8,800.00	8,785.81	8,750.54	8,484.63	31.45	35.44	-70.48	259.95	-1,173.78	1,120.46	1,059.31	61.15	18.324	
8,900.00	8,885.45	8,903.68	8,632.81	31.82	36.18	-70.86	268.79	-1,211.36	1,142.30	1,079.79	62.51	18.273	
9,000.00	8,985.22	9,059.71	8,785.59	32.18	36.87	-71.16	276.03	-1,242.10	1,159.85	1,096.09	63.77	18.189	
9,100.00	9,085.09	9,218.03	8,942.07	32.54	37.51	-71.38	281.52	-1,265.43	1,172.99	1,108.09	64.90	18.074	
9,200.00	9,185.04	9,378.03	9,101.26	32.90	38.10	-71.52	285.16	-1,280.90	1,181.60	1,115.71	65.89	17.933	
9,300.00	9,285.02	9,539.01	9,262.04	33.26	38.63	-71.58	286.87	-1,288.18	1,185.64	1,118.90	66.74	17.765	
9,337.52	9,322.54	9,599.51	9,322.54	33.39	38.82	-90.58	287.01	-1,288.77	1,185.96	1,118.94	67.02	17.695	
9,350.00	9,335.02	9,619.64	9,342.67	33.44	38.88	89.97	286.99	-1,288.70	1,185.92	1,118.81	67.11	17.672	
9,350.29	9,335.31	9,620.11	9,343.14	33.44	38.88	89.97	286.99	-1,288.70	1,185.92	1,118.81	67.11	17.671	
9,375.00	9,359.99	9,636.70	9,359.70	33.51	38.92	89.95	285.56	-1,288.76	1,185.96	1,118.70	67.26	17.632	
9,400.00	9,384.85	9,661.51	9,384.37	33.59	38.99	89.95	282.99	-1,288.74	1,185.97	1,118.56	67.41	17.593	
9,425.00	9,409.54	9,686.32	9,408.88	33.67	39.05	89.95	279.14	-1,288.72	1,185.98	1,118.42	67.56	17.555	
9,450.00	9,433.99	9,711.14	9,433.15	33.74	39.11	89.95	274.02	-1,288.68	1,185.99	1,118.29	67.70	17.519	
9,475.00	9,458.13	9,735.95	9,457.13	33.81	39.17	89.95	267.65	-1,288.64	1,186.00	1,118.17	67.83	17.484	
9,500.00	9,481.91	9,760.77	9,480.75	33.87	39.23	89.95	260.04	-1,288.58	1,186.02	1,118.05	67.97	17.450	
9,525.00	9,505.24	9,785.59	9,503.95	33.94	39.28	89.95	251.21	-1,288.52	1,186.04	1,117.95	68.09	17.418	
9,550.00	9,528.08	9,810.41	9,526.65	34.00	39.33	89.95	241.18	-1,288.45	1,186.06	1,117.85	68.21	17.387	
9,575.00	9,550.35	9,835.24	9,548.81	34.06	39.38	89.95	229.99	-1,288.37	1,186.09	1,117.76	68.33	17.358	
9,600.00	9,572.00	9,860.08	9,570.36	34.12	39.43	89.96	217.66	-1,288.29	1,186.11	1,117.67	68.44	17.330	
9,625.00	9,592.97	9,884.91	9,591.25	34.17	39.47	89.96	204.22	-1,288.19	1,186.14	1,117.59	68.55	17.303	
9,650.00	9,613.19	9,909.76	9,611.41	34.22	39.50	89.96	189.71	-1,288.09	1,186.18	1,117.52	68.66	17.277	
9,675.00	9,632.62	9,934.61	9,630.80	34.27	39.54	89.96	174.17	-1,287.98	1,186.21	1,117.45	68.76	17.252	
9,700.00	9,651.19	9,959.46	9,649.35	34.32	39.57	89.96	157.64	-1,287.87	1,186.25	1,117.39	68.86	17.228	
9,725.00	9,668.87	9,984.33	9,667.03	34.36	39.60	89.96	140.15	-1,287.75	1,186.29	1,117.34	68.95	17.205	
9,750.00	9,685.60	10,009.20	9,683.78	34.40	39.62	89.97	121.77	-1,287.62	1,186.33	1,117.29	69.04	17.183	
9,775.00	9,701.33	10,034.08	9,699.55	34.44	39.64	89.97	102.53	-1,287.49	1,186.37	1,117.24	69.13	17.162	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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	
9,800.00	9,716.02	10,058.96	9,714.30	34.48	39.65	89.97	82.49	-1,287.35	1,186.41	1,117.20	69.22	17.141	
9,825.00	9,729.64	10,083.86	9,727.99	34.52	39.67	89.97	61.71	-1,287.20	1,186.46	1,117.16	69.30	17.120	
9,850.00	9,742.14	10,108.76	9,740.58	34.56	39.68	89.97	40.23	-1,287.05	1,186.51	1,117.12	69.38	17.101	
9,875.00	9,753.49	10,133.67	9,752.04	34.60	39.68	89.98	18.11	-1,286.90	1,186.56	1,117.09	69.47	17.081	
9,900.00	9,763.65	10,158.59	9,762.34	34.64	39.69	89.98	-4.58	-1,286.74	1,186.61	1,117.06	69.55	17.062	
9,925.00	9,772.61	10,183.52	9,771.44	34.68	39.69	89.98	-27.78	-1,286.58	1,186.66	1,117.03	69.63	17.043	
9,950.00	9,780.34	10,208.46	9,779.32	34.72	39.69	89.98	-51.44	-1,286.41	1,186.71	1,117.01	69.70	17.025	
9,975.00	9,786.81	10,233.41	9,785.96	34.75	39.68	89.99	-75.49	-1,286.25	1,186.76	1,116.98	69.78	17.007	
10,000.00	9,792.01	10,258.36	9,791.33	34.79	39.68	89.99	-99.86	-1,286.08	1,186.82	1,116.96	69.86	16.989	
10,025.00	9,795.92	10,283.33	9,795.43	34.83	39.67	89.99	-124.48	-1,285.91	1,186.87	1,116.94	69.94	16.971	
10,050.00	9,798.53	10,308.31	9,798.23	34.87	39.67	90.00	-149.30	-1,285.73	1,186.93	1,116.92	70.01	16.953	
10,075.00	9,799.84	10,333.30	9,799.73	34.90	39.66	90.00	-174.24	-1,285.56	1,186.98	1,116.90	70.09	16.936	
10,087.52	9,800.00	10,345.81	9,799.99	34.92	39.66	90.00	-186.75	-1,285.47	1,187.01	1,116.89	70.12	16.928	
10,100.00	9,800.00	10,358.30	9,800.00	34.94	39.65	90.00	-199.23	-1,285.38	1,187.04	1,116.88	70.16	16.919	
10,200.00	9,800.00	10,458.30	9,800.00	35.13	39.64	90.00	-299.23	-1,284.69	1,187.26	1,116.72	70.54	16.831	
10,300.00	9,800.00	10,558.30	9,800.00	35.37	39.65	90.00	-399.23	-1,283.99	1,187.48	1,116.45	71.03	16.719	
10,400.00	9,800.00	10,658.30	9,800.00	35.68	39.68	90.00	-499.22	-1,283.30	1,187.70	1,116.08	71.63	16.582	
10,500.00	9,800.00	10,758.30	9,800.00	36.03	39.74	90.00	-599.22	-1,282.60	1,187.92	1,115.59	72.34	16.422	
10,600.00	9,800.00	10,858.30	9,800.00	36.44	39.84	90.00	-699.22	-1,281.90	1,188.14	1,114.99	73.15	16.242	
10,700.00	9,800.00	10,958.30	9,800.00	36.90	39.99	90.00	-799.22	-1,281.21	1,188.37	1,114.30	74.07	16.044	
10,800.00	9,800.00	11,058.30	9,800.00	37.41	40.21	90.00	-899.21	-1,280.51	1,188.59	1,113.50	75.09	15.829	
10,900.00	9,800.00	11,158.30	9,800.00	37.97	40.50	90.00	-999.21	-1,279.81	1,188.81	1,112.61	76.20	15.601	
11,000.00	9,800.00	11,258.30	9,800.00	38.58	40.87	90.00	-1,099.21	-1,279.12	1,189.03	1,111.62	77.40	15.361	
11,100.00	9,800.00	11,358.30	9,800.00	39.23	41.32	90.00	-1,199.21	-1,278.42	1,189.25	1,110.55	78.70	15.112	
11,200.00	9,800.00	11,458.29	9,800.00	39.91	41.86	90.00	-1,299.20	-1,277.73	1,189.47	1,109.40	80.07	14.855	
11,300.00	9,800.00	11,558.29	9,800.00	40.64	42.47	90.00	-1,399.20	-1,277.03	1,189.69	1,108.17	81.52	14.594	
11,400.00	9,800.00	11,658.29	9,800.00	41.41	43.14	90.00	-1,499.20	-1,276.33	1,189.91	1,106.86	83.05	14.328	
11,500.00	9,800.00	11,758.29	9,800.00	42.21	43.86	90.00	-1,599.20	-1,275.64	1,190.13	1,105.49	84.65	14.060	
11,600.00	9,800.00	11,858.29	9,800.00	43.04	44.63	90.00	-1,699.19	-1,274.94	1,190.36	1,104.05	86.31	13.792	
11,700.00	9,800.00	11,958.29	9,800.00	43.91	45.44	90.00	-1,799.19	-1,274.25	1,190.58	1,102.54	88.03	13.524	
11,800.00	9,800.00	12,058.29	9,800.00	44.80	46.28	90.00	-1,899.19	-1,273.55	1,190.80	1,100.98	89.82	13.258	
11,900.00	9,800.00	12,158.29	9,800.00	45.73	47.16	90.00	-1,999.18	-1,272.85	1,191.02	1,099.36	91.66	12.994	
12,000.00	9,800.00	12,258.29	9,800.00	46.67	48.07	90.00	-2,099.18	-1,272.16	1,191.24	1,097.69	93.55	12.733	
12,100.00	9,800.00	12,358.29	9,800.00	47.65	49.01	90.00	-2,199.18	-1,271.46	1,191.46	1,095.97	95.50	12.476	
12,200.00	9,800.00	12,458.29	9,800.00	48.64	49.97	90.00	-2,299.18	-1,270.76	1,191.68	1,094.20	97.49	12.224	
12,300.00	9,800.00	12,558.29	9,800.00	49.66	50.96	90.00	-2,399.17	-1,270.07	1,191.90	1,092.39	99.52	11.977	
12,400.00	9,800.00	12,658.29	9,800.00	50.70	51.97	90.00	-2,499.17	-1,269.37	1,192.13	1,090.53	101.59	11.735	
12,500.00	9,800.00	12,758.29	9,800.00	51.76	53.00	90.00	-2,599.17	-1,268.68	1,192.35	1,088.64	103.70	11.498	
12,600.00	9,800.00	12,858.29	9,800.00	52.84	54.05	90.00	-2,699.17	-1,267.98	1,192.57	1,086.72	105.85	11.267	
12,700.00	9,800.00	12,958.29	9,800.00	53.93	55.12	90.00	-2,799.16	-1,267.28	1,192.79	1,084.76	108.03	11.041	
12,800.00	9,800.00	13,058.29	9,800.00	55.04	56.20	90.00	-2,899.16	-1,266.59	1,193.01	1,082.76	110.25	10.821	
12,900.00	9,800.00	13,158.29	9,800.00	56.16	57.31	90.00	-2,999.16	-1,265.89	1,193.23	1,080.74	112.49	10.608	
13,000.00	9,800.00	13,258.29	9,800.00	57.30	58.42	90.00	-3,099.16	-1,265.19	1,193.45	1,078.69	114.76	10.399	
13,100.00	9,800.00	13,358.29	9,800.00	58.45	59.55	90.00	-3,199.15	-1,264.50	1,193.67	1,076.61	117.06	10.197	
13,200.00	9,800.00	13,458.29	9,800.00	59.61	60.69	90.00	-3,299.15	-1,263.80	1,193.89	1,074.51	119.38	10.000	
13,300.00	9,800.00	13,558.29	9,800.00	60.79	61.85	90.00	-3,399.15	-1,263.11	1,194.12	1,072.38	121.73	9.809	
13,400.00	9,800.00	13,658.29	9,800.00	61.98	63.02	90.00	-3,499.14	-1,262.41	1,194.34	1,070.24	124.10	9.624	
13,500.00	9,800.00	13,758.29	9,800.00	63.17	64.20	90.00	-3,599.14	-1,261.71	1,194.56	1,068.07	126.49	9.444	
13,600.00	9,800.00	13,858.29	9,800.00	64.38	65.39	90.00	-3,699.14	-1,261.02	1,194.78	1,065.88	128.90	9.269	
13,700.00	9,800.00	13,958.29	9,800.00	65.60	66.58	90.00	-3,799.14	-1,260.32	1,195.00	1,063.67	131.33	9.099	
13,800.00	9,800.00	14,058.29	9,800.00	66.82	67.79	90.00	-3,899.13	-1,259.62	1,195.22	1,061.44	133.78	8.934	
13,900.00	9,800.00	14,158.29	9,800.00	68.06	69.01	90.00	-3,999.13	-1,258.93	1,195.44	1,059.20	136.25	8.774	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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_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
14,000.00	9,800.00	14,258.29	9,800.00	69.30	70.24	90.00	-4,099.13	-1,258.23	1,195.66	1,056.94	138.73	8.619	
14,100.00	9,800.00	14,358.29	9,800.00	70.55	71.47	90.00	-4,199.13	-1,257.54	1,195.88	1,054.66	141.22	8.468	
14,200.00	9,800.00	14,458.29	9,800.00	71.80	72.71	90.00	-4,299.12	-1,256.84	1,196.11	1,052.37	143.73	8.322	
14,300.00	9,800.00	14,558.29	9,800.00	73.07	73.96	90.00	-4,399.12	-1,256.14	1,196.33	1,050.07	146.25	8.180	
14,400.00	9,800.00	14,658.29	9,800.00	74.34	75.21	90.00	-4,499.12	-1,255.45	1,196.55	1,047.76	148.79	8.042	
14,500.00	9,800.00	14,758.29	9,800.00	75.61	76.48	90.00	-4,599.12	-1,254.75	1,196.77	1,045.43	151.34	7.908	
14,600.00	9,800.00	14,858.29	9,800.00	76.89	77.74	90.00	-4,699.11	-1,254.05	1,196.99	1,043.09	153.90	7.778	
14,700.00	9,800.00	14,958.29	9,800.00	78.18	79.02	90.00	-4,799.11	-1,253.36	1,197.21	1,040.74	156.47	7.651	
14,800.00	9,800.00	15,058.29	9,800.00	79.47	80.30	90.00	-4,899.11	-1,252.66	1,197.43	1,038.38	159.05	7.529	
14,900.00	9,800.00	15,158.29	9,800.00	80.77	81.58	90.00	-4,999.10	-1,251.97	1,197.65	1,036.01	161.64	7.409	
15,000.00	9,800.00	15,258.29	9,800.00	82.07	82.87	90.00	-5,099.10	-1,251.27	1,197.88	1,033.63	164.25	7.293	
15,100.00	9,800.00	15,358.29	9,800.00	83.38	84.16	90.00	-5,199.10	-1,250.57	1,198.10	1,031.24	166.86	7.180	
15,200.00	9,800.00	15,458.29	9,800.00	84.69	85.46	90.00	-5,299.10	-1,249.88	1,198.32	1,028.84	169.48	7.071	
15,300.00	9,800.00	15,558.29	9,800.00	86.00	86.77	90.00	-5,399.09	-1,249.18	1,198.54	1,026.44	172.10	6.964	
15,400.00	9,800.00	15,658.29	9,800.00	87.32	88.07	90.00	-5,499.09	-1,248.49	1,198.76	1,024.02	174.74	6.860	
15,500.00	9,800.00	15,758.28	9,800.00	88.64	89.38	90.00	-5,599.09	-1,247.79	1,198.98	1,021.60	177.38	6.759	
15,600.00	9,800.00	15,858.28	9,800.00	89.97	90.70	90.00	-5,699.09	-1,247.09	1,199.20	1,019.17	180.03	6.661	
15,700.00	9,800.00	15,958.28	9,800.00	91.30	92.02	90.00	-5,799.08	-1,246.40	1,199.42	1,016.74	182.69	6.565	
15,800.00	9,800.00	16,058.28	9,800.00	92.63	93.34	90.00	-5,899.08	-1,245.70	1,199.64	1,014.29	185.35	6.472	
15,900.00	9,800.00	16,158.28	9,800.00	93.97	94.67	90.00	-5,999.08	-1,245.00	1,199.87	1,011.85	188.02	6.382	
16,000.00	9,800.00	16,258.28	9,800.00	95.31	96.00	90.00	-6,099.08	-1,244.31	1,200.09	1,009.39	190.70	6.293	
16,100.00	9,800.00	16,358.28	9,800.00	96.65	97.33	90.00	-6,199.07	-1,243.61	1,200.31	1,006.93	193.38	6.207	
16,200.00	9,800.00	16,458.28	9,800.00	97.99	98.66	90.00	-6,299.07	-1,242.92	1,200.53	1,004.46	196.07	6.123	
16,300.00	9,800.00	16,558.28	9,800.00	99.34	100.00	90.00	-6,399.07	-1,242.22	1,200.75	1,001.99	198.76	6.041	
16,400.00	9,800.00	16,658.28	9,800.00	100.69	101.34	90.00	-6,499.06	-1,241.52	1,200.97	999.52	201.46	5.961	
16,500.00	9,800.00	16,758.28	9,800.00	102.04	102.69	90.00	-6,599.06	-1,240.83	1,201.19	997.03	204.16	5.884	
16,600.00	9,800.00	16,858.28	9,800.00	103.40	104.03	90.00	-6,699.06	-1,240.13	1,201.41	994.55	206.87	5.808	
16,700.00	9,800.00	16,958.28	9,800.00	104.75	105.38	90.00	-6,799.06	-1,239.43	1,201.64	992.06	209.58	5.734	
16,800.00	9,800.00	17,058.28	9,800.00	106.11	106.73	90.00	-6,899.05	-1,238.74	1,201.86	989.56	212.29	5.661	
16,900.00	9,800.00	17,158.28	9,800.00	107.47	108.09	90.00	-6,999.05	-1,238.04	1,202.08	987.06	215.02	5.591	
17,000.00	9,800.00	17,258.28	9,800.00	108.84	109.44	90.00	-7,099.05	-1,237.35	1,202.30	984.56	217.74	5.522	
17,100.00	9,800.00	17,358.28	9,800.00	110.20	110.80	90.00	-7,199.05	-1,236.65	1,202.52	982.05	220.47	5.454	
17,200.00	9,800.00	17,458.28	9,800.00	111.57	112.16	90.00	-7,299.04	-1,235.95	1,202.74	979.54	223.20	5.389	
17,300.00	9,800.00	17,558.28	9,800.00	112.94	113.52	90.00	-7,399.04	-1,235.26	1,202.96	977.03	225.94	5.324	
17,328.76	9,800.00	17,587.04	9,800.00	113.33	113.91	90.00	-7,427.80	-1,235.06	1,203.03	976.30	226.72	5.306	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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 504H - 504H - 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		Highside Toolface (°)	Distance				Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)				
+N/-S (usft)	+E/-W (usft)												
0.00	0.00	0.00	0.00	0.00	0.00	-90.77	-0.44	-32.93	32.93				
100.00	100.00	100.00	100.00	0.13	0.13	-90.77	-0.44	-32.93	32.93	32.66	0.27 122.494		
200.00	200.00	200.00	200.00	0.49	0.49	-90.77	-0.44	-32.93	32.93	31.95	0.99 33.407		
300.00	300.00	300.00	300.00	0.85	0.85	-90.77	-0.44	-32.93	32.93	31.23	1.70 19.341		
400.00	400.00	400.00	400.00	1.21	1.21	-90.77	-0.44	-32.93	32.93	30.51	2.42 13.610		
500.00	500.00	500.00	500.00	1.57	1.57	-90.77	-0.44	-32.93	32.93	29.80	3.14 10.499		
600.00	600.00	600.00	600.00	1.93	1.93	-90.77	-0.44	-32.93	32.93	29.08	3.85 8.546		
700.00	700.00	700.00	700.00	2.29	2.29	-90.77	-0.44	-32.93	32.93	28.36	4.57 7.206		
800.00	800.00	800.00	800.00	2.64	2.64	-90.77	-0.44	-32.93	32.93	27.65	5.29 6.229		
900.00	900.00	900.00	900.00	3.00	3.00	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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 504H - 504H - 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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-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	-90.77	-0.44	-32.93	32.93	-6.91	39.84	0.827	Level 1, CC, ES, SF	
5,700.00	5,700.00	5,699.35	5,699.34	20.21	20.20	-72.29	-0.23	-33.71	33.55	-6.86	40.40	0.830	Level 1	
5,800.00	5,799.97	5,798.46	5,798.40	20.57	20.54	-74.21	0.62	-36.89	36.06	-5.02	41.08	0.878	Level 1	
5,900.00	5,899.89	5,897.42	5,897.19	20.92	20.89	-77.00	2.13	-42.49	40.59	-1.14	41.73	0.973	Level 1	
6,000.00	5,999.72	5,996.15	5,995.56	21.28	21.23	-80.05	4.28	-50.49	47.20	4.83	42.37	1.114	Level 2	
6,100.00	6,099.44	6,094.56	6,093.38	21.64	21.58	-82.91	7.07	-60.87	55.96	12.97	42.99	1.302	Level 3	
6,197.86	6,196.88	6,190.47	6,188.42	21.99	21.91	-85.32	10.40	-73.29	66.61	23.02	43.59	1.528		
6,200.00	6,199.01	6,192.57	6,190.50	21.99	21.92	-85.37	10.48	-73.59	66.87	23.26	43.61	1.533		
6,300.00	6,298.50	6,290.10	6,286.79	22.35	22.27	-86.88	14.51	-88.58	79.96	35.76	44.20	1.809		
6,400.00	6,397.99	6,387.08	6,382.11	22.71	22.61	-87.18	19.13	-105.80	95.20	50.42	44.78	2.126		
6,500.00	6,497.49	6,483.37	6,476.28	23.07	22.96	-86.73	24.33	-125.16	112.53	67.20	45.33	2.483		
6,600.00	6,596.98	6,578.87	6,569.17	23.42	23.31	-85.87	30.09	-146.58	131.94	86.10	45.84	2.878		
6,700.00	6,696.47	6,673.47	6,660.62	23.78	23.66	-84.79	36.37	-169.97	153.47	107.13	46.34	3.312		
6,800.00	6,795.96	6,767.09	6,750.51	24.14	24.02	-83.62	43.15	-195.22	177.11	130.31	46.80	3.784		
6,900.00	6,895.45	6,859.62	6,838.71	24.51	24.37	-82.42	50.40	-222.23	202.88	155.64	47.24	4.295		
7,000.00	6,994.94	6,950.98	6,925.12	24.87	24.74	-81.26	58.10	-250.88	230.76	183.12	47.65	4.843		
7,100.00	7,094.44	7,041.09	7,009.64	25.23	25.11	-80.14	66.20	-281.05	260.76	212.72	48.03	5.429		
7,200.00	7,193.93	7,129.90	7,092.21	25.59	25.48	-79.08	74.68	-312.62	292.83	244.43	48.40	6.051		
7,300.00	7,293.42	7,217.32	7,172.74	25.95	25.86	-78.09	83.51	-345.48	326.96	278.22	48.74	6.709		
7,400.00	7,392.91	7,300.00	7,248.17	26.32	26.23	-77.20	92.29	-378.15	363.12	314.21	48.91	7.425		
7,500.00	7,492.40	7,387.83	7,327.51	26.68	26.64	-76.31	102.06	-414.56	401.23	351.87	49.36	8.129		
7,600.00	7,591.90	7,470.83	7,401.67	27.05	27.04	-75.51	111.73	-450.54	441.30	391.65	49.64	8.890		
7,700.00	7,691.39	7,552.27	7,473.66	27.41	27.45	-74.78	121.61	-487.32	483.25	433.34	49.91	9.683		
7,800.00	7,790.88	7,632.14	7,543.46	27.78	27.87	-74.09	131.67	-524.80	527.05	476.89	50.16	10.507		
7,900.00	7,890.37	7,710.41	7,611.08	28.14	28.29	-73.46	141.90	-562.87	572.64	522.24	50.40	11.362		
8,000.00	7,989.86	7,787.07	7,676.53	28.51	28.73	-72.87	152.25	-601.42	619.97	569.35	50.63	12.246		
8,100.00	8,089.36	7,866.61	7,743.65	28.87	29.20	-72.30	163.32	-642.62	668.89	617.89	51.00	13.116		
8,200.00	8,188.85	7,953.42	7,816.74	29.24	29.73	-71.75	175.47	-687.85	718.19	666.55	51.64	13.908		
8,300.00	8,288.34	8,056.84	7,904.35	29.61	30.38	-71.20	189.73	-740.93	766.76	713.97	52.79	14.525		
8,400.00	8,387.83	8,166.94	7,999.17	29.98	31.07	-70.77	204.24	-794.97	813.04	758.96	54.08	15.034		
8,500.00	8,487.32	8,280.24	8,098.35	30.34	31.77	-70.44	218.44	-847.85	856.86	801.48	55.38	15.472		
8,600.00	8,586.81	8,396.67	8,201.90	30.71	32.49	-70.21	232.25	-899.27	898.12	841.42	56.70	15.841		
8,700.00	8,686.31	8,516.16	8,309.77	31.08	33.22	-70.06	245.58	-948.89	936.70	878.68	58.01	16.146		
8,759.66	8,745.66	8,588.86	8,376.15	31.30	33.65	-70.01	253.27	-977.50	958.39	899.60	58.80	16.301		
8,800.00	8,785.81	8,638.57	8,421.86	31.45	33.94	-70.12	258.34	-996.38	972.53	913.21	59.32	16.394		
8,900.00	8,885.45	8,763.56	8,537.86	31.82	34.66	-70.32	270.41	-1,041.33	1,005.94	945.33	60.61	16.597		
9,000.00	8,985.22	8,891.00	8,657.61	32.18	35.36	-70.44	281.72	-1,083.43	1,036.94	975.06	61.87	16.760		
9,100.00	9,085.09	9,020.77	8,780.94	32.54	36.04	-70.48	292.18	-1,122.37	1,065.44	1,002.35	63.10	16.886		
9,200.00	9,185.04	9,152.74	8,907.68	32.90	36.71	-70.44	301.72	-1,157.88	1,091.39	1,027.11	64.28	16.978		
9,300.00	9,285.02	9,286.75	9,037.58	33.26	37.35	-70.33	310.25	-1,189.66	1,114.71	1,049.29	65.42	17.039		
9,337.52	9,322.54	9,337.52	9,087.08	33.39	37.58	-89.26	313.18	-1,200.57	1,122.76	1,056.93	65.83	17.055		
9,350.00	9,335.02	9,354.45	9,103.62	33.44	37.66	91.01	314.12	-1,204.07	1,125.36	1,059.39	65.97	17.060		
9,375.00	9,359.99	9,388.35	9,136.78	33.51	37.81	90.57	315.95	-1,210.87	1,130.42	1,064.20	66.22	17.070		
9,400.00	9,384.85	9,422.14	9,169.89	33.59	37.96	90.24	317.69	-1,217.37	1,135.30	1,068.83	66.47	17.080		
9,425.00	9,409.54	9,455.75	9,202.88	33.67	38.11	90.02	319.35	-1,223.55	1,140.00	1,073.29	66.71	17.089		
9,450.00	9,433.99	9,489.07	9,235.65	33.74	38.25	89.90	320.93	-1,229.41	1,144.53	1,077.59	66.94	17.098		
9,475.00	9,458.13	9,522.02	9,268.10	33.81	38.39	89.86	322.41	-1,234.94	1,148.89	1,081.74	67.16	17.108		

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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 504H - 504H - Planning - Plan 0.1												Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,500.00	9,481.91	9,554.53	9,300.16	33.87	38.53	89.92	323.81	-1,240.13	1,153.12	1,085.76	67.36	17.118	
9,525.00	9,505.24	9,586.49	9,331.72	33.94	38.66	90.05	325.11	-1,244.98	1,157.24	1,089.67	67.56	17.128	
9,550.00	9,528.08	9,617.82	9,362.70	34.00	38.79	90.25	326.32	-1,249.50	1,161.27	1,093.51	67.75	17.140	
9,575.00	9,550.35	9,648.43	9,393.01	34.06	38.91	90.50	327.45	-1,253.68	1,165.24	1,097.31	67.93	17.153	
9,600.00	9,572.00	9,678.25	9,422.55	34.12	39.02	90.80	328.48	-1,257.52	1,169.20	1,101.09	68.10	17.168	
9,625.00	9,592.97	9,707.18	9,451.25	34.17	39.14	91.13	329.42	-1,261.05	1,173.17	1,104.91	68.26	17.186	
9,650.00	9,613.19	9,735.14	9,479.02	34.22	39.24	91.48	330.29	-1,264.26	1,177.21	1,108.79	68.41	17.207	
9,675.00	9,632.62	9,762.06	9,505.77	34.27	39.34	91.83	331.07	-1,267.16	1,181.34	1,112.79	68.56	17.231	
9,700.00	9,651.19	9,787.85	9,531.41	34.32	39.44	92.17	331.77	-1,269.78	1,185.62	1,116.93	68.69	17.260	
9,725.00	9,668.87	9,812.43	9,555.88	34.36	39.53	92.49	332.40	-1,272.12	1,190.09	1,121.27	68.82	17.292	
9,750.00	9,685.60	9,835.74	9,579.09	34.40	39.62	92.78	332.96	-1,274.20	1,194.78	1,125.84	68.94	17.330	
9,775.00	9,701.33	9,857.71	9,600.97	34.44	39.69	93.01	333.45	-1,276.04	1,199.75	1,130.69	69.06	17.373	
9,800.00	9,716.02	9,878.25	9,621.45	34.48	39.77	93.18	333.89	-1,277.66	1,205.02	1,135.85	69.17	17.421	
9,825.00	9,729.64	9,897.31	9,640.45	34.52	39.84	93.27	334.26	-1,279.06	1,210.62	1,141.35	69.27	17.476	
9,850.00	9,742.14	9,914.83	9,657.93	34.56	39.90	93.27	334.59	-1,280.27	1,216.60	1,147.23	69.37	17.537	
9,875.00	9,753.49	9,930.75	9,673.81	34.60	39.95	93.17	334.87	-1,281.30	1,222.97	1,153.50	69.47	17.604	
9,900.00	9,763.65	9,945.01	9,688.04	34.64	40.00	92.96	335.10	-1,282.17	1,229.77	1,160.20	69.56	17.679	
9,925.00	9,772.61	9,957.56	9,700.56	34.68	40.04	92.62	335.29	-1,282.90	1,236.99	1,167.34	69.65	17.760	
9,950.00	9,780.34	9,968.35	9,711.34	34.72	40.08	92.15	335.45	-1,283.49	1,244.66	1,174.92	69.73	17.849	
9,975.00	9,786.81	9,977.34	9,720.32	34.75	40.11	91.55	335.58	-1,283.96	1,252.77	1,182.95	69.81	17.945	
10,000.00	9,792.01	9,984.50	9,727.47	34.79	40.14	90.79	335.68	-1,284.32	1,261.32	1,191.43	69.89	18.047	
10,025.00	9,795.92	9,989.78	9,732.74	34.83	40.15	89.89	335.75	-1,284.58	1,270.30	1,200.34	69.96	18.157	
10,050.00	9,798.53	9,993.17	9,736.12	34.87	40.17	88.84	335.79	-1,284.74	1,279.69	1,209.66	70.03	18.273	
10,075.00	9,799.84	9,994.62	9,737.58	34.90	40.17	87.63	335.81	-1,284.81	1,289.48	1,219.38	70.10	18.396	
10,087.52	9,800.00	9,994.62	9,737.58	34.92	40.17	86.98	335.81	-1,284.81	1,294.51	1,224.38	70.13	18.460	
10,100.00	9,800.00	9,994.38	9,737.34	34.94	40.17	86.96	335.81	-1,284.80	1,299.63	1,229.47	70.16	18.525	
10,200.00	9,800.00	9,992.41	9,735.36	35.13	40.16	86.87	335.78	-1,284.71	1,344.08	1,273.64	70.44	19.080	
10,300.00	9,800.00	11,247.48	10,500.00	35.37	41.76	120.52	-399.25	-1,284.13	1,378.56	1,314.03	64.54	21.361	
10,400.00	9,800.00	11,347.48	10,500.00	35.68	41.79	120.51	-499.25	-1,283.44	1,378.75	1,313.73	65.02	21.204	
10,500.00	9,800.00	11,447.48	10,500.00	36.03	41.86	120.51	-599.25	-1,282.74	1,378.94	1,313.33	65.61	21.017	
10,600.00	9,800.00	11,547.48	10,500.00	36.44	41.96	120.50	-699.24	-1,282.04	1,379.13	1,312.84	66.29	20.803	
10,700.00	9,800.00	11,647.48	10,500.00	36.90	42.12	120.50	-799.24	-1,281.34	1,379.32	1,312.25	67.07	20.565	
10,800.00	9,800.00	11,747.48	10,500.00	37.41	42.35	120.49	-899.24	-1,280.64	1,379.51	1,311.57	67.94	20.305	
10,900.00	9,800.00	11,847.48	10,500.00	37.97	42.65	120.49	-999.24	-1,279.95	1,379.70	1,310.80	68.90	20.025	
11,000.00	9,800.00	11,947.48	10,500.00	38.58	43.04	120.48	-1,099.23	-1,279.25	1,379.89	1,309.95	69.94	19.730	
11,100.00	9,800.00	12,047.48	10,500.00	39.23	43.51	120.48	-1,199.23	-1,278.55	1,380.08	1,309.01	71.06	19.421	
11,200.00	9,800.00	12,147.48	10,500.00	39.91	44.05	120.47	-1,299.23	-1,277.85	1,380.26	1,308.01	72.26	19.102	
11,300.00	9,800.00	12,247.48	10,500.00	40.64	44.66	120.47	-1,399.23	-1,277.15	1,380.45	1,306.92	73.53	18.774	
11,400.00	9,800.00	12,347.48	10,500.00	41.41	45.32	120.46	-1,499.22	-1,276.45	1,380.64	1,305.77	74.87	18.440	
11,500.00	9,800.00	12,447.48	10,500.00	42.21	46.03	120.46	-1,599.22	-1,275.76	1,380.83	1,304.55	76.28	18.103	
11,600.00	9,800.00	12,547.48	10,500.00	43.04	46.78	120.46	-1,699.22	-1,275.06	1,381.02	1,303.27	77.75	17.763	
11,700.00	9,800.00	12,647.48	10,500.00	43.91	47.57	120.45	-1,799.21	-1,274.36	1,381.21	1,301.94	79.27	17.424	
11,800.00	9,800.00	12,747.48	10,500.00	44.80	48.39	120.45	-1,899.21	-1,273.66	1,381.40	1,300.54	80.85	17.085	
11,900.00	9,800.00	12,847.48	10,500.00	45.73	49.24	120.44	-1,999.21	-1,272.96	1,381.59	1,299.10	82.49	16.749	
12,000.00	9,800.00	12,947.48	10,500.00	46.67	50.13	120.44	-2,099.21	-1,272.26	1,381.78	1,297.60	84.17	16.416	
12,100.00	9,800.00	13,047.48	10,500.00	47.65	51.04	120.43	-2,199.20	-1,271.57	1,381.96	1,296.06	85.90	16.088	
12,200.00	9,800.00	13,147.48	10,500.00	48.64	51.97	120.43	-2,299.20	-1,270.87	1,382.15	1,294.48	87.68	15.764	
12,300.00	9,800.00	13,247.48	10,500.00	49.66	52.93	120.42	-2,399.20	-1,270.17	1,382.34	1,292.85	89.49	15.447	
12,400.00	9,800.00	13,347.48	10,500.00	50.70	53.92	120.42	-2,499.20	-1,269.47	1,382.53	1,291.19	91.34	15.135	
12,500.00	9,800.00	13,447.48	10,500.00	51.76	54.92	120.41	-2,599.19	-1,268.77	1,382.72	1,289.49	93.23	14.831	
12,600.00	9,800.00	13,547.48	10,500.00	52.84	55.94	120.41	-2,699.19	-1,268.08	1,382.91	1,287.75	95.16	14.533	
12,700.00	9,800.00	13,647.47	10,500.00	53.93	56.98	120.40	-2,799.19	-1,267.38	1,383.10	1,285.99	97.11	14.242	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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 504H - 504H - Planning - Plan 0.1													Offset Site Error:	0.00 usft
Survey Program: 0-B001Mb_MWD+HRGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,800.00	9,800.00	13,747.47	10,500.00	55.04	58.04	120.40	-2,899.19	-1,266.68	1,383.29	1,284.19	99.10	13.959		
12,900.00	9,800.00	13,847.47	10,500.00	56.16	59.11	120.40	-2,999.18	-1,265.98	1,383.48	1,282.36	101.11	13.683		
13,000.00	9,800.00	13,947.47	10,500.00	57.30	60.20	120.39	-3,099.18	-1,265.28	1,383.67	1,280.51	103.15	13.414		
13,100.00	9,800.00	14,047.47	10,500.00	58.45	61.31	120.39	-3,199.18	-1,264.58	1,383.86	1,278.63	105.22	13.152		
13,200.00	9,800.00	14,147.47	10,500.00	59.61	62.42	120.38	-3,299.17	-1,263.89	1,384.04	1,276.73	107.31	12.898		
13,300.00	9,800.00	14,247.47	10,500.00	60.79	63.55	120.38	-3,399.17	-1,263.19	1,384.23	1,274.81	109.42	12.650		
13,400.00	9,800.00	14,347.47	10,500.00	61.98	64.70	120.37	-3,499.17	-1,262.49	1,384.42	1,272.87	111.56	12.410		
13,500.00	9,800.00	14,447.47	10,500.00	63.17	65.85	120.37	-3,599.17	-1,261.79	1,384.61	1,270.90	113.71	12.177		
13,600.00	9,800.00	14,547.47	10,500.00	64.38	67.02	120.36	-3,699.16	-1,261.09	1,384.80	1,268.92	115.88	11.950		
13,700.00	9,800.00	14,647.47	10,500.00	65.60	68.19	120.36	-3,799.16	-1,260.39	1,384.99	1,266.92	118.07	11.730		
13,800.00	9,800.00	14,747.47	10,500.00	66.82	69.38	120.35	-3,899.16	-1,259.70	1,385.18	1,264.90	120.28	11.516		
13,900.00	9,800.00	14,847.47	10,500.00	68.06	70.57	120.35	-3,999.16	-1,259.00	1,385.37	1,262.86	122.51	11.309		
14,000.00	9,800.00	14,947.47	10,500.00	69.30	71.78	120.35	-4,099.15	-1,258.30	1,385.56	1,260.81	124.74	11.107		
14,100.00	9,800.00	15,047.47	10,500.00	70.55	72.99	120.34	-4,199.15	-1,257.60	1,385.75	1,258.75	127.00	10.912		
14,200.00	9,800.00	15,147.47	10,500.00	71.80	74.21	120.34	-4,299.15	-1,256.90	1,385.94	1,256.67	129.26	10.722		
14,300.00	9,800.00	15,247.47	10,500.00	73.07	75.44	120.33	-4,399.15	-1,256.20	1,386.12	1,254.58	131.54	10.537		
14,400.00	9,800.00	15,347.47	10,500.00	74.34	76.67	120.33	-4,499.14	-1,255.51	1,386.31	1,252.48	133.84	10.358		
14,500.00	9,800.00	15,447.47	10,500.00	75.61	77.92	120.32	-4,599.14	-1,254.81	1,386.50	1,250.36	136.14	10.184		
14,600.00	9,800.00	15,547.47	10,500.00	76.89	79.17	120.32	-4,699.14	-1,254.11	1,386.69	1,248.24	138.46	10.015		
14,700.00	9,800.00	15,647.47	10,500.00	78.18	80.42	120.31	-4,799.13	-1,253.41	1,386.88	1,246.10	140.78	9.851		
14,800.00	9,800.00	15,747.47	10,500.00	79.47	81.68	120.31	-4,899.13	-1,252.71	1,387.07	1,243.95	143.12	9.692		
14,900.00	9,800.00	15,847.47	10,500.00	80.77	82.95	120.30	-4,999.13	-1,252.02	1,387.26	1,241.80	145.46	9.537		
15,000.00	9,800.00	15,947.47	10,500.00	82.07	84.22	120.30	-5,099.13	-1,251.32	1,387.45	1,239.63	147.82	9.386		
15,100.00	9,800.00	16,047.47	10,500.00	83.38	85.50	120.30	-5,199.12	-1,250.62	1,387.64	1,237.46	150.18	9.240		
15,200.00	9,800.00	16,147.47	10,500.00	84.69	86.78	120.29	-5,299.12	-1,249.92	1,387.83	1,235.28	152.55	9.098		
15,300.00	9,800.00	16,247.47	10,500.00	86.00	88.07	120.29	-5,399.12	-1,249.22	1,388.02	1,233.09	154.93	8.959		
15,400.00	9,800.00	16,347.47	10,500.00	87.32	89.36	120.28	-5,499.12	-1,248.52	1,388.21	1,230.89	157.31	8.824		
15,500.00	9,800.00	16,447.47	10,500.00	88.64	90.66	120.28	-5,599.11	-1,247.83	1,388.40	1,228.69	159.71	8.693		
15,600.00	9,800.00	16,547.47	10,500.00	89.97	91.96	120.27	-5,699.11	-1,247.13	1,388.59	1,226.48	162.11	8.566		
15,700.00	9,800.00	16,647.47	10,500.00	91.30	93.27	120.27	-5,799.11	-1,246.43	1,388.77	1,224.26	164.52	8.442		
15,800.00	9,800.00	16,747.47	10,500.00	92.63	94.58	120.26	-5,899.11	-1,245.73	1,388.96	1,222.03	166.93	8.321		
15,900.00	9,800.00	16,847.47	10,500.00	93.97	95.89	120.26	-5,999.10	-1,245.03	1,389.15	1,219.80	169.35	8.203		
16,000.00	9,800.00	16,947.47	10,500.00	95.31	97.20	120.25	-6,099.10	-1,244.33	1,389.34	1,217.57	171.78	8.088		
16,100.00	9,800.00	17,047.47	10,500.00	96.65	98.52	120.25	-6,199.10	-1,243.64	1,389.53	1,215.32	174.21	7.976		
16,200.00	9,800.00	17,147.47	10,500.00	97.99	99.85	120.24	-6,299.09	-1,242.94	1,389.72	1,213.08	176.64	7.867		
16,300.00	9,800.00	17,247.47	10,500.00	99.34	101.17	120.24	-6,399.09	-1,242.24	1,389.91	1,210.82	179.09	7.761		
16,400.00	9,800.00	17,347.47	10,500.00	100.69	102.50	120.24	-6,499.09	-1,241.54	1,390.10	1,208.57	181.53	7.658		
16,500.00	9,800.00	17,447.47	10,500.00	102.04	103.83	120.23	-6,599.09	-1,240.84	1,390.29	1,206.30	183.98	7.557		
16,600.00	9,800.00	17,547.47	10,500.00	103.40	105.17	120.23	-6,699.08	-1,240.15	1,390.48	1,204.04	186.44	7.458		
16,700.00	9,800.00	17,647.47	10,500.00	104.75	106.50	120.22	-6,799.08	-1,239.45	1,390.67	1,201.77	188.90	7.362		
16,800.00	9,800.00	17,747.47	10,500.00	106.11	107.84	120.22	-6,899.08	-1,238.75	1,390.86	1,199.49	191.37	7.268		
16,900.00	9,800.00	17,847.46	10,500.00	107.47	109.19	120.21	-6,999.08	-1,238.05	1,391.05	1,197.21	193.84	7.176		
17,000.00	9,800.00	17,947.46	10,500.00	108.84	110.53	120.21	-7,099.07	-1,237.35	1,391.24	1,194.93	196.31	7.087		
17,100.00	9,800.00	18,047.46	10,500.00	110.20	111.88	120.20	-7,199.07	-1,236.65	1,391.43	1,192.64	198.79	7.000		
17,200.00	9,800.00	18,147.46	10,500.00	111.57	113.23	120.20	-7,299.07	-1,235.96	1,391.62	1,190.35	201.27	6.914		
17,300.00	9,800.00	18,247.46	10,500.00	112.94	114.58	120.20	-7,399.06	-1,235.26	1,391.80	1,188.06	203.75	6.831		
17,328.76	9,800.00	18,276.22	10,500.00	113.33	114.97	120.19	-7,427.82	-1,235.06	1,391.86	1,187.40	204.46	6.807		

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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	89.38	0.36	33.04	33.04					
100.00	100.00	100.00	100.00	0.13	0.13	89.38	0.36	33.04	33.04	32.77	0.27	122.899		
200.00	200.00	200.00	200.00	0.49	0.49	89.38	0.36	33.04	33.04	32.06	0.99	33.518		
300.00	300.00	300.00	300.00	0.85	0.85	89.38	0.36	33.04	33.04	31.34	1.70	19.405		
400.00	400.00	400.00	400.00	1.21	1.21	89.38	0.36	33.04	33.04	30.62	2.42	13.655		
500.00	500.00	500.00	500.00	1.57	1.57	89.38	0.36	33.04	33.04	29.91	3.14	10.534		
600.00	600.00	600.00	600.00	1.93	1.93	89.38	0.36	33.04	33.04	29.19	3.85	8.574		
700.00	700.00	700.00	700.00	2.29	2.29	89.38	0.36	33.04	33.04	28.47	4.57	7.229		
800.00	800.00	800.00	800.00	2.64	2.64	89.38	0.36	33.04	33.04	27.75	5.29	6.249		
900.00	900.00	900.00	900.00	3.00	3.00	89.38	0.36	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	89.38	0.36	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	89.38	0.36	33.04	33.04	25.60	7.44	4.442		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	33.04	33.04	20.59	12.46	2.653		
1,900.00	1,900.00	1,900.00	1,900.00	6.59	6.59	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	33.04	33.04	-3.07	36.12	0.915 Level 1		

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



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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	89.38	0.36	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	89.38	0.36	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	89.38	0.36	33.04	33.04	-5.22	38.27	0.863	Level 1	
5,500.00	5,500.00	5,500.00	5,500.00	19.49	19.49	89.38	0.36	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	89.38	0.36	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	89.38	0.36	33.04	33.04	-6.80	39.84	0.829	Level 1	
5,700.00	5,700.00	5,700.16	5,700.16	20.21	20.21	108.38	0.88	32.84	33.02	-7.40	40.42	0.817	Level 1	
5,800.00	5,799.97	5,800.37	5,800.34	20.57	20.57	108.42	3.00	32.01	32.93	-8.20	41.13	0.801	Level 1	
5,900.00	5,899.89	5,900.57	5,900.46	20.92	20.92	108.51	6.76	30.54	32.77	-9.07	41.84	0.783	Level 1	
6,000.00	5,999.72	6,000.78	6,000.50	21.28	21.28	108.64	12.14	28.43	32.54	-10.01	42.55	0.765	Level 1	
6,100.00	6,099.44	6,100.98	6,100.42	21.64	21.64	108.80	19.15	25.69	32.24	-11.01	43.25	0.745	Level 1	
6,197.86	6,196.88	6,199.02	6,198.04	21.99	21.99	109.01	27.58	22.39	31.88	-12.06	43.94	0.726	Level 1	
6,200.00	6,199.01	6,201.17	6,200.17	21.99	22.00	109.02	27.78	22.31	31.88	-12.08	43.96	0.725	Level 1	
6,300.00	6,298.50	6,301.16	6,299.67	22.35	22.35	109.44	37.07	18.68	31.52	-13.15	44.67	0.706	Level 1	
6,400.00	6,397.99	6,401.16	6,399.17	22.71	22.71	109.87	46.36	15.04	31.16	-14.22	45.38	0.687	Level 1	
6,500.00	6,497.49	6,501.16	6,498.67	23.07	23.07	110.31	55.65	11.41	30.81	-15.28	46.09	0.668	Level 1	
6,600.00	6,596.98	6,601.16	6,598.17	23.42	23.43	110.76	64.94	7.77	30.45	-16.35	46.81	0.651	Level 1	
6,700.00	6,696.47	6,701.16	6,697.67	23.78	23.79	111.22	74.23	4.14	30.10	-17.42	47.52	0.633	Level 1	
6,800.00	6,795.96	6,801.16	6,797.17	24.14	24.15	111.69	83.52	0.50	29.76	-18.48	48.24	0.617	Level 1	
6,900.00	6,895.45	6,901.16	6,896.67	24.51	24.51	112.18	92.81	-3.13	29.41	-19.55	48.96	0.601	Level 1	
7,000.00	6,994.94	7,001.16	6,996.17	24.87	24.87	112.67	102.10	-6.77	29.06	-20.61	49.67	0.585	Level 1	
7,100.00	7,094.44	7,101.16	7,095.67	25.23	25.23	113.18	111.38	-10.40	28.72	-21.67	50.39	0.570	Level 1	
7,200.00	7,193.93	7,201.16	7,195.17	25.59	25.59	113.70	120.67	-14.04	28.38	-22.73	51.11	0.555	Level 1	
7,300.00	7,293.42	7,301.16	7,294.67	25.95	25.96	114.23	129.96	-17.67	28.04	-23.79	51.84	0.541	Level 1	
7,400.00	7,392.91	7,401.15	7,394.17	26.32	26.32	114.77	139.25	-21.31	27.71	-24.85	52.56	0.527	Level 1	
7,500.00	7,492.40	7,501.15	7,493.67	26.68	26.68	115.33	148.54	-24.94	27.38	-25.90	53.28	0.514	Level 1	
7,600.00	7,591.90	7,601.15	7,593.17	27.05	27.05	115.90	157.83	-28.58	27.05	-26.96	54.00	0.501	Level 1	
7,700.00	7,691.39	7,701.15	7,692.67	27.41	27.41	116.49	167.12	-32.21	26.72	-28.01	54.73	0.488	Level 1	
7,800.00	7,790.88	7,801.15	7,792.17	27.78	27.78	117.08	176.41	-35.85	26.40	-29.05	55.45	0.476	Level 1	
7,900.00	7,890.37	7,901.15	7,891.67	28.14	28.14	117.70	185.70	-39.48	26.07	-30.10	56.17	0.464	Level 1	
8,000.00	7,989.86	8,001.15	7,991.18	28.51	28.51	118.33	194.99	-43.12	25.76	-31.14	56.90	0.453	Level 1	
8,100.00	8,089.36	8,101.15	8,090.68	28.87	28.88	118.97	204.28	-46.75	25.44	-32.18	57.62	0.442	Level 1	
8,200.00	8,188.85	8,201.15	8,190.18	29.24	29.24	119.64	213.57	-50.39	25.13	-33.22	58.35	0.431	Level 1	
8,300.00	8,288.34	8,301.15	8,289.68	29.61	29.61	120.31	222.86	-54.02	24.82	-34.25	59.07	0.420	Level 1	
8,400.00	8,387.83	8,401.15	8,389.18	29.98	29.98	121.01	232.15	-57.66	24.52	-35.28	59.80	0.410	Level 1	
8,500.00	8,487.32	8,501.14	8,488.68	30.34	30.35	121.72	241.44	-61.29	24.22	-36.31	60.52	0.400	Level 1	
8,600.00	8,586.81	8,601.14	8,588.18	30.71	30.71	122.45	250.73	-64.93	23.92	-37.33	61.25	0.391	Level 1	
8,700.00	8,686.31	8,701.14	8,687.68	31.08	31.08	123.20	260.02	-68.56	23.62	-38.35	61.97	0.381	Level 1	
8,759.66	8,745.66	8,760.80	8,747.04	31.30	31.30	123.65	265.56	-70.73	23.45	-38.95	62.41	0.376	Level 1	
8,800.00	8,785.81	8,801.14	8,787.18	31.45	31.45	123.67	269.31	-72.20	23.26	-39.44	62.70	0.371	Level 1	
8,900.00	8,885.45	8,901.13	8,886.67	31.82	31.82	121.08	278.60	-75.83	22.12	-41.33	63.45	0.349	Level 1	
9,000.00	8,985.22	9,001.07	8,986.11	32.18	32.19	113.85	287.88	-79.47	20.26	-43.97	64.23	0.315	Level 1	
9,100.00	9,085.09	9,100.95	9,085.49	32.54	32.56	100.10	297.16	-83.10	18.40	-46.65	65.05	0.283	Level 1	
9,166.87	9,151.92	9,167.68	9,151.89	32.78	32.80	86.61	303.36	-85.52	17.87	-47.72	65.58	0.272	Level 1, CC, SF	
9,200.00	9,185.04	9,200.72	9,184.76	32.90	32.93	78.93	306.43	-86.72	18.03	-47.79	65.83	0.274	Level 1, ES	
9,300.00	9,285.02	9,300.36	9,283.91	33.26	33.29	55.52	315.68	-90.35	20.99	-45.48	66.47	0.316	Level 1	
9,337.52	9,322.54	9,337.70	9,321.06	33.39	33.43	28.94	319.15	-91.70	23.12	-43.56	66.69	0.347	Level 1	
9,350.00	9,335.02	9,350.11	9,333.41	33.44	33.48	-152.94	320.31	-92.15	24.08	-42.67	66.76	0.361	Level 1	
9,375.00	9,359.99	9,374.83	9,358.01	33.51	33.57	-157.96	322.60	-93.05	27.03	-39.85	66.88	0.404	Level 1	
9,400.00	9,384.85	9,399.43	9,382.49	33.59	33.66	-162.60	324.83	-93.92	31.34	-35.69	67.02	0.468	Level 1	
9,425.00	9,409.54	9,423.80	9,406.75	33.67	33.75	-166.46	326.94	-94.75	36.96	-30.20	67.16	0.550	Level 1	
9,450.00	9,433.99	9,447.86	9,430.72	33.74	33.84	-169.51	328.92	-95.53	43.87	-23.44	67.31	0.652	Level 1	

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



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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
9,475.00	9,458.13	9,471.58	9,454.36	33.81	33.93	-171.86	330.79	-96.26	52.03	-15.43	67.46	0.771	Level 1
9,500.00	9,481.91	9,494.90	9,477.60	33.87	34.01	-173.64	332.54	-96.94	61.38	-6.23	67.61	0.908	Level 1
9,525.00	9,505.24	9,517.77	9,500.40	33.94	34.10	-175.00	334.17	-97.58	71.88	4.12	67.76	1.061	Level 2
9,550.00	9,528.08	9,540.14	9,522.71	34.00	34.18	-176.04	335.68	-98.17	83.50	15.60	67.90	1.230	Level 2
9,575.00	9,550.35	9,561.94	9,544.46	34.06	34.26	-176.84	337.07	-98.72	96.21	28.17	68.04	1.414	Level 3
9,600.00	9,572.00	9,583.14	9,565.61	34.12	34.34	-177.45	338.35	-99.22	109.97	41.79	68.18	1.613	
9,625.00	9,592.97	9,603.67	9,586.11	34.17	34.41	-177.93	339.53	-99.68	124.74	56.43	68.31	1.826	
9,650.00	9,613.19	9,623.49	9,605.89	34.22	34.48	-178.31	340.59	-100.09	140.49	72.05	68.43	2.053	
9,675.00	9,632.62	9,642.55	9,624.92	34.27	34.55	-178.60	341.56	-100.47	157.17	88.62	68.55	2.293	
9,700.00	9,651.19	9,660.79	9,643.14	34.32	34.62	-178.84	342.43	-100.81	174.76	106.10	68.66	2.545	
9,725.00	9,668.87	9,678.17	9,660.51	34.36	34.68	-179.02	343.20	-101.11	193.21	124.44	68.77	2.810	
9,750.00	9,685.60	9,694.64	9,676.96	34.40	34.74	-179.17	343.90	-101.39	212.47	143.61	68.86	3.085	
9,775.00	9,701.33	9,710.16	9,692.46	34.44	34.80	-179.29	344.51	-101.62	232.50	163.55	68.95	3.372	
9,800.00	9,716.02	9,724.66	9,706.95	34.48	34.85	-179.39	345.04	-101.83	253.25	184.22	69.03	3.669	
9,825.00	9,729.64	9,738.12	9,720.39	34.52	34.90	-179.46	345.51	-102.02	274.67	205.57	69.10	3.975	
9,850.00	9,742.14	9,750.47	9,732.75	34.56	34.94	-179.52	345.91	-102.17	296.72	227.55	69.17	4.290	
9,875.00	9,753.49	9,761.69	9,743.96	34.60	34.98	-179.56	346.26	-102.31	319.33	250.10	69.23	4.613	
9,900.00	9,763.65	9,771.74	9,754.00	34.64	35.02	-179.59	346.55	-102.42	342.45	273.17	69.28	4.943	
9,925.00	9,772.61	9,780.56	9,762.82	34.68	35.05	-179.60	346.79	-102.52	366.02	296.70	69.32	5.280	
9,950.00	9,780.34	9,788.12	9,770.38	34.72	35.08	-179.59	346.99	-102.59	389.99	320.63	69.36	5.623	
9,975.00	9,786.81	9,794.40	9,776.65	34.75	35.10	-179.57	347.14	-102.66	414.29	344.90	69.39	5.971	
10,000.00	9,792.01	9,799.35	9,781.60	34.79	35.12	-179.50	347.26	-102.70	438.86	369.45	69.41	6.323	
10,025.00	9,795.92	9,802.95	9,785.20	34.83	35.13	-179.34	347.35	-102.74	463.63	394.21	69.43	6.678	
10,050.00	9,798.53	9,805.16	9,787.41	34.87	35.14	-178.82	347.40	-102.76	488.55	419.11	69.44	7.036	
10,075.00	9,799.84	9,805.97	9,788.22	34.90	35.14	-163.25	347.41	-102.76	513.53	444.09	69.44	7.395	
10,087.52	9,800.00	9,805.84	9,788.09	34.92	35.14	-2.66	347.41	-102.76	526.05	456.61	69.44	7.575	
10,100.00	9,800.00	9,805.53	9,787.78	34.94	35.14	-2.60	347.40	-102.76	538.53	469.09	69.44	7.755	
10,200.00	9,800.00	9,802.99	9,785.24	35.13	35.13	-2.24	347.35	-102.74	638.50	569.06	69.44	9.195	
10,300.00	9,800.00	11,011.82	10,500.00	35.37	37.87	180.00	-390.96	-96.59	699.99	660.18	39.82	17.581	
10,400.00	9,800.00	11,111.82	10,500.00	35.68	38.16	180.00	-490.96	-95.68	699.99	659.76	40.24	17.397	
10,500.00	9,800.00	11,211.82	10,500.00	36.03	38.51	180.00	-590.95	-94.76	699.99	659.28	40.72	17.192	
10,600.00	9,800.00	11,311.82	10,500.00	36.44	38.90	180.00	-690.95	-93.85	699.99	658.74	41.25	16.970	
10,700.00	9,800.00	11,411.82	10,500.00	36.90	39.34	180.00	-790.94	-92.93	699.99	658.16	41.83	16.733	
10,800.00	9,800.00	11,511.82	10,500.00	37.41	39.83	180.00	-890.94	-92.01	699.99	657.52	42.47	16.482	
10,900.00	9,800.00	11,611.82	10,500.00	37.97	40.37	180.00	-990.94	-91.10	699.99	656.84	43.15	16.222	
11,000.00	9,800.00	11,711.82	10,500.00	38.58	40.94	179.99	-1,090.93	-90.18	699.99	656.11	43.88	15.952	
11,100.00	9,800.00	11,811.82	10,500.00	39.23	41.56	179.99	-1,190.93	-89.26	699.99	655.34	44.65	15.676	
11,200.00	9,800.00	11,911.82	10,500.00	39.91	42.22	179.99	-1,290.92	-88.35	699.99	654.53	45.47	15.396	
11,300.00	9,800.00	12,011.82	10,500.00	40.64	42.92	179.99	-1,390.92	-87.43	699.99	653.68	46.32	15.113	
11,400.00	9,800.00	12,111.82	10,500.00	41.41	43.65	179.99	-1,490.91	-86.52	699.99	652.79	47.21	14.828	
11,500.00	9,800.00	12,211.82	10,500.00	42.21	44.42	179.99	-1,590.91	-85.60	699.99	651.86	48.13	14.544	
11,600.00	9,800.00	12,311.82	10,500.00	43.04	45.22	179.99	-1,690.91	-84.68	699.99	650.91	49.09	14.260	
11,700.00	9,800.00	12,411.82	10,500.00	43.91	46.05	179.99	-1,790.90	-83.77	699.99	649.92	50.07	13.979	
11,800.00	9,800.00	12,511.82	10,500.00	44.80	46.91	179.99	-1,890.90	-82.85	699.99	648.90	51.09	13.701	
11,900.00	9,800.00	12,611.82	10,500.00	45.73	47.80	179.99	-1,990.89	-81.93	699.99	647.86	52.13	13.427	
12,000.00	9,800.00	12,711.82	10,500.00	46.67	48.72	179.99	-2,090.89	-81.02	699.99	646.79	53.20	13.157	
12,100.00	9,800.00	12,811.82	10,500.00	47.65	49.66	179.99	-2,190.88	-80.10	699.99	645.70	54.30	12.892	
12,200.00	9,800.00	12,911.82	10,500.00	48.64	50.62	179.99	-2,290.88	-79.18	699.99	644.58	55.41	12.632	
12,300.00	9,800.00	13,011.82	10,500.00	49.66	51.61	179.99	-2,390.88	-78.27	699.99	643.44	56.55	12.378	
12,400.00	9,800.00	13,111.82	10,500.00	50.70	52.61	179.99	-2,490.87	-77.35	700.00	642.28	57.71	12.129	
12,500.00	9,800.00	13,211.82	10,500.00	51.76	53.64	179.99	-2,590.87	-76.44	700.00	641.11	58.89	11.887	
12,600.00	9,800.00	13,311.82	10,500.00	52.84	54.69	179.99	-2,690.86	-75.52	700.00	639.91	60.08	11.650	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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
12,700.00	9,800.00	13,411.82	10,500.00	53.93	55.75	179.99	-2,790.86	-74.60	700.00	638.70	61.30	11.420	
12,800.00	9,800.00	13,511.82	10,500.00	55.04	56.83	179.99	-2,890.86	-73.69	700.00	637.47	62.52	11.195	
12,900.00	9,800.00	13,611.82	10,500.00	56.16	57.92	179.99	-2,990.85	-72.77	700.00	636.23	63.77	10.977	
13,000.00	9,800.00	13,711.82	10,500.00	57.30	59.03	179.99	-3,090.85	-71.85	700.00	634.97	65.03	10.765	
13,100.00	9,800.00	13,811.82	10,500.00	58.45	60.16	179.99	-3,190.84	-70.94	700.00	633.70	66.30	10.559	
13,200.00	9,800.00	13,911.82	10,500.00	59.61	61.29	179.99	-3,290.84	-70.02	700.00	632.42	67.58	10.358	
13,300.00	9,800.00	14,011.82	10,500.00	60.79	62.44	179.99	-3,390.83	-69.11	700.00	631.12	68.87	10.163	
13,400.00	9,800.00	14,111.82	10,500.00	61.98	63.60	179.99	-3,490.83	-68.19	700.00	629.82	70.18	9.974	
13,500.00	9,800.00	14,211.82	10,500.00	63.17	64.78	179.99	-3,590.83	-67.27	700.00	628.50	71.50	9.791	
13,600.00	9,800.00	14,311.82	10,500.00	64.38	65.96	179.99	-3,690.82	-66.36	700.00	627.17	72.82	9.612	
13,700.00	9,800.00	14,411.82	10,500.00	65.60	67.15	179.99	-3,790.82	-65.44	700.00	625.84	74.16	9.439	
13,800.00	9,800.00	14,511.82	10,500.00	66.82	68.35	179.99	-3,890.81	-64.52	700.00	624.49	75.50	9.271	
13,900.00	9,800.00	14,611.82	10,500.00	68.06	69.57	179.99	-3,990.81	-63.61	700.00	623.14	76.86	9.108	
14,000.00	9,800.00	14,711.82	10,500.00	69.30	70.79	179.99	-4,090.80	-62.69	700.00	621.78	78.22	8.949	
14,100.00	9,800.00	14,811.82	10,500.00	70.55	72.01	179.99	-4,190.80	-61.78	700.00	620.41	79.59	8.795	
14,200.00	9,800.00	14,911.82	10,500.00	71.80	73.25	179.99	-4,290.80	-60.86	700.00	619.03	80.97	8.646	
14,300.00	9,800.00	15,011.82	10,500.00	73.07	74.49	179.99	-4,390.79	-59.94	700.00	617.65	82.35	8.500	
14,400.00	9,800.00	15,111.82	10,500.00	74.34	75.74	179.99	-4,490.79	-59.03	700.00	616.26	83.74	8.359	
14,500.00	9,800.00	15,211.82	10,500.00	75.61	77.00	179.99	-4,590.78	-58.11	700.00	614.86	85.14	8.222	
14,600.00	9,800.00	15,311.82	10,500.00	76.89	78.26	179.99	-4,690.78	-57.19	700.00	613.46	86.54	8.089	
14,700.00	9,800.00	15,411.82	10,500.00	78.18	79.53	179.99	-4,790.78	-56.28	700.00	612.05	87.95	7.959	
14,800.00	9,800.00	15,511.82	10,500.00	79.47	80.81	179.99	-4,890.77	-55.36	700.00	610.64	89.36	7.834	
14,900.00	9,800.00	15,611.82	10,500.00	80.77	82.09	179.99	-4,990.77	-54.44	700.00	609.22	90.78	7.711	
15,000.00	9,800.00	15,711.82	10,500.00	82.07	83.37	179.99	-5,090.76	-53.53	700.00	607.80	92.20	7.592	
15,100.00	9,800.00	15,811.82	10,500.00	83.38	84.66	179.99	-5,190.76	-52.61	700.00	606.37	93.63	7.476	
15,200.00	9,800.00	15,911.82	10,500.00	84.69	85.96	179.99	-5,290.75	-51.70	700.00	604.94	95.06	7.364	
15,300.00	9,800.00	16,011.82	10,500.00	86.00	87.26	179.99	-5,390.75	-50.78	700.00	603.50	96.50	7.254	
15,400.00	9,800.00	16,111.82	10,500.00	87.32	88.56	179.99	-5,490.75	-49.86	700.00	602.06	97.94	7.147	
15,500.00	9,800.00	16,211.82	10,500.00	88.64	89.87	179.99	-5,590.74	-48.95	700.00	600.62	99.38	7.043	
15,600.00	9,800.00	16,311.82	10,500.00	89.97	91.18	179.99	-5,690.74	-48.03	700.00	599.17	100.83	6.942	
15,700.00	9,800.00	16,411.82	10,500.00	91.30	92.50	179.99	-5,790.73	-47.11	700.00	597.72	102.28	6.844	
15,800.00	9,800.00	16,511.82	10,500.00	92.63	93.81	179.99	-5,890.73	-46.20	700.00	596.26	103.74	6.748	
15,900.00	9,800.00	16,611.82	10,500.00	93.97	95.14	179.99	-5,990.73	-45.28	700.00	594.80	105.20	6.654	
16,000.00	9,800.00	16,711.82	10,500.00	95.31	96.46	179.99	-6,090.72	-44.37	700.00	593.34	106.66	6.563	
16,100.00	9,800.00	16,811.82	10,500.00	96.65	97.79	179.99	-6,190.72	-43.45	700.00	591.88	108.12	6.474	
16,200.00	9,800.00	16,911.82	10,500.00	97.99	99.13	179.99	-6,290.71	-42.53	700.00	590.41	109.59	6.387	
16,300.00	9,800.00	17,011.82	10,500.00	99.34	100.46	179.99	-6,390.71	-41.62	700.00	588.94	111.06	6.303	
16,400.00	9,800.00	17,111.82	10,500.00	100.69	101.80	179.99	-6,490.70	-40.70	700.00	587.46	112.54	6.220	
16,500.00	9,800.00	17,211.82	10,500.00	102.04	103.14	179.99	-6,590.70	-39.78	700.00	585.99	114.01	6.140	
16,600.00	9,800.00	17,311.82	10,500.00	103.40	104.48	179.99	-6,690.70	-38.87	700.00	584.51	115.49	6.061	
16,700.00	9,800.00	17,411.82	10,500.00	104.75	105.83	179.99	-6,790.69	-37.95	700.00	583.03	116.97	5.984	
16,800.00	9,800.00	17,511.82	10,500.00	106.11	107.18	179.99	-6,890.69	-37.03	700.00	581.55	118.45	5.910	
16,900.00	9,800.00	17,611.82	10,500.00	107.47	108.53	179.99	-6,990.68	-36.12	700.00	580.06	119.94	5.836	
17,000.00	9,800.00	17,711.82	10,500.00	108.84	109.88	179.99	-7,090.68	-35.20	700.00	578.57	121.42	5.765	
17,100.00	9,800.00	17,811.82	10,500.00	110.20	111.24	179.99	-7,190.67	-34.29	700.00	577.09	122.91	5.695	
17,200.00	9,800.00	17,911.82	10,500.00	111.57	112.60	179.99	-7,290.67	-33.37	700.00	575.59	124.41	5.627	
17,300.00	9,800.00	18,011.82	10,500.00	112.94	113.95	179.99	-7,390.67	-32.45	700.00	574.10	125.90	5.560	
17,328.76	9,800.00	18,040.57	10,500.00	113.33	114.35	179.99	-7,419.42	-32.19	700.00	573.67	126.33	5.541	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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	20.06	702.54	256.60	747.94				
100.00	100.00	114.98	114.98	0.13	1.35	20.07	702.47	256.59	747.86	746.39	1.48	506.188	
200.00	200.00	214.91	214.91	0.49	1.92	20.07	702.28	256.59	747.69	745.31	2.38	314.461	
231.53	231.53	245.53	245.53	0.61	2.07	20.07	702.26	256.61	747.67	745.06	2.61	286.417	
300.00	300.00	312.01	312.01	0.85	2.44	20.08	702.31	256.72	747.76	744.64	3.13	239.261	
400.00	400.00	409.05	409.05	1.21	2.94	20.09	702.67	257.03	748.22	744.36	3.86	193.624	
500.00	500.00	509.34	509.34	1.57	3.33	20.09	703.30	257.22	748.88	744.27	4.61	162.491	
600.00	600.00	608.80	608.79	1.93	3.69	20.07	703.99	257.23	749.53	744.17	5.37	139.708	
700.00	700.00	708.14	708.13	2.29	4.03	20.04	704.83	257.12	750.28	744.19	6.10	123.085	
800.00	800.00	808.18	808.17	2.64	4.35	20.00	705.72	256.90	751.05	744.24	6.80	110.414	
900.00	900.00	909.01	908.99	3.00	4.66	19.97	706.61	256.73	751.82	744.34	7.49	100.443	
1,000.00	1,000.00	1,010.76	1,010.74	3.36	5.00	19.92	707.35	256.30	752.36	744.20	8.16	92.254	
1,100.00	1,100.00	1,114.04	1,114.02	3.72	5.29	19.86	707.84	255.71	752.61	743.84	8.77	85.865	
1,172.43	1,172.43	1,186.45	1,186.43	3.98	5.48	19.83	707.96	255.27	752.57	743.38	9.19	81.861	
1,200.00	1,200.00	1,213.67	1,213.65	4.08	5.54	19.81	708.03	255.10	752.58	743.23	9.36	80.442	
1,300.00	1,300.00	1,314.95	1,314.92	4.44	5.81	19.76	708.23	254.47	752.56	742.60	9.96	75.562	
1,400.00	1,400.00	1,414.36	1,414.33	4.79	6.08	19.70	708.42	253.70	752.48	741.91	10.57	71.208	
1,500.00	1,500.00	1,514.12	1,514.09	5.15	6.37	19.65	708.64	253.01	752.46	741.26	11.19	67.233	
1,600.00	1,600.00	1,614.65	1,614.62	5.51	6.66	19.62	708.73	252.58	752.39	740.58	11.82	63.674	
1,676.37	1,676.37	1,690.41	1,690.37	5.79	6.89	19.59	708.81	252.25	752.36	740.06	12.30	61.188	
1,700.00	1,700.00	1,713.61	1,713.57	5.87	6.97	19.58	708.86	252.14	752.37	739.92	12.45	60.441	
1,800.00	1,800.00	1,812.02	1,811.98	6.23	7.31	19.55	709.17	251.77	752.54	739.44	13.10	57.462	
1,900.00	1,900.00	1,911.03	1,910.99	6.59	7.66	19.52	709.61	251.52	752.88	739.12	13.76	54.713	
2,000.00	2,000.00	2,008.70	2,008.65	6.95	7.98	19.48	710.21	251.27	753.37	738.96	14.41	52.284	
2,100.00	2,100.00	2,104.74	2,104.69	7.30	8.25	19.50	711.05	251.73	754.35	739.28	15.07	50.050	
2,200.00	2,200.00	2,204.56	2,204.49	7.66	8.53	19.57	712.05	253.17	755.77	740.04	15.74	48.019	
2,300.00	2,300.00	2,314.99	2,314.93	8.02	8.85	19.55	712.72	253.14	756.34	739.89	16.45	45.978	
2,400.00	2,400.00	2,425.72	2,425.60	8.38	9.32	19.33	712.86	250.02	755.52	738.30	17.23	43.861	
2,500.00	2,500.00	2,541.06	2,540.78	8.74	9.82	18.92	711.91	244.06	753.06	735.17	17.89	42.094	
2,600.00	2,600.00	2,655.31	2,654.70	9.10	10.28	18.39	709.25	235.85	748.54	730.04	18.50	40.463	
2,700.00	2,700.00	2,769.95	2,768.72	9.45	10.97	17.68	705.18	224.73	742.14	722.88	19.27	38.518	
2,800.00	2,800.00	2,884.75	2,882.51	9.81	12.31	16.75	699.56	210.60	733.78	713.45	20.33	36.102	
2,900.00	2,900.00	2,996.56	2,992.88	10.17	13.32	15.66	692.59	194.11	723.59	702.32	21.27	34.019	
3,000.00	3,000.00	3,098.79	3,093.42	10.53	13.79	14.48	685.48	177.04	712.41	690.54	21.87	32.571	
3,100.00	3,100.00	3,196.88	3,189.82	10.89	14.14	13.29	678.64	160.25	701.42	679.00	22.42	31.291	
3,200.00	3,200.00	3,293.54	3,284.84	11.25	14.48	12.08	672.01	143.81	690.87	667.90	22.97	30.080	
3,300.00	3,300.00	3,389.56	3,379.27	11.61	14.83	10.85	665.69	127.61	680.94	657.41	23.53	28.938	
3,400.00	3,400.00	3,485.29	3,473.48	11.96	15.27	9.62	659.68	111.77	671.72	647.52	24.20	27.762	
3,500.00	3,500.00	3,581.15	3,567.95	12.32	15.74	8.39	653.95	96.46	663.23	638.34	24.89	26.649	
3,600.00	3,600.00	3,681.14	3,666.51	12.68	16.17	7.10	648.08	80.73	655.20	629.68	25.52	25.670	
3,700.00	3,700.00	3,780.21	3,764.08	13.04	16.58	5.74	642.13	64.54	647.31	621.18	26.13	24.775	
3,800.00	3,800.00	3,876.99	3,859.28	13.40	16.98	4.32	636.47	48.13	639.89	613.15	26.73	23.936	
3,900.00	3,900.00	3,969.83	3,950.63	13.76	17.38	2.93	631.55	32.33	633.44	606.10	27.35	23.165	
4,000.00	4,000.00	4,068.76	4,048.06	14.11	17.81	1.45	626.75	15.85	627.87	599.90	27.97	22.446	
4,100.00	4,100.00	4,167.26	4,145.13	14.47	18.24	-0.02	621.88	-0.18	622.66	594.05	28.61	21.765	
4,200.00	4,200.00	4,264.97	4,241.37	14.83	18.68	-1.52	617.11	-16.38	617.94	588.68	29.25	21.125	
4,300.00	4,300.00	4,362.62	4,337.55	15.19	19.12	-3.05	612.50	-32.61	613.82	583.91	29.90	20.526	
4,400.00	4,400.00	4,462.00	4,435.37	15.55	19.58	-4.65	607.75	-49.46	610.14	579.56	30.57	19.958	
4,500.00	4,500.00	4,560.32	4,532.04	15.91	20.05	-6.32	602.90	-66.79	606.86	575.61	31.25	19.422	
4,600.00	4,600.00	4,656.64	4,626.74	16.27	20.51	-7.97	598.39	-83.79	604.36	572.43	31.93	18.928	
4,700.00	4,700.00	4,755.66	4,724.17	16.62	20.98	-9.64	593.85	-100.85	602.44	569.80	32.63	18.462	
4,800.00	4,800.00	4,852.76	4,819.79	16.98	21.45	-11.24	589.53	-117.19	601.09	567.75	33.34	18.029	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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	4,949.58	4,915.20	17.34	21.93	-12.81	585.61	-133.14	600.55	566.49	34.06	17.632		
4,941.25	4,941.25	4,990.27	4,955.25	17.49	22.14	-13.49	583.94	-140.10	600.51	566.14	34.37	17.474		
5,000.00	5,000.00	5,047.50	5,011.51	17.70	22.43	-14.50	581.49	-150.36	600.62	565.81	34.80	17.258		
5,100.00	5,100.00	5,143.88	5,106.16	18.06	22.93	-16.23	577.46	-168.08	601.47	565.92	35.56	16.916		
5,200.00	5,200.00	5,241.20	5,201.64	18.42	23.42	-18.01	573.52	-186.48	603.21	566.87	36.34	16.601		
5,300.00	5,300.00	5,341.06	5,299.53	18.77	23.93	-19.88	569.23	-205.78	605.45	568.31	37.15	16.300		
5,400.00	5,400.00	5,439.46	5,396.01	19.13	24.44	-21.69	564.73	-224.60	608.02	570.06	37.96	16.015		
5,500.00	5,500.00	5,536.72	5,491.43	19.49	24.93	-23.43	560.64	-242.92	611.43	572.64	38.78	15.765		
5,600.00	5,600.00	5,635.63	5,588.62	19.85	25.44	-25.11	556.71	-260.89	615.33	575.70	39.63	15.527		
5,620.00	5,620.00	5,655.39	5,608.06	19.92	25.54	-25.43	555.96	-264.39	616.17	576.37	39.80	15.482		
5,700.00	5,700.00	5,733.87	5,685.27	20.21	25.95	-7.71	553.06	-278.10	619.15	578.67	40.48	15.294		
5,800.00	5,799.97	5,833.40	5,783.30	20.57	26.47	-9.27	549.58	-295.00	621.72	580.36	41.36	15.033		
5,900.00	5,899.89	5,933.33	5,881.85	20.92	26.99	-10.78	546.31	-311.16	622.81	580.57	42.24	14.745		
6,000.00	5,999.72	6,031.00	5,978.24	21.28	27.49	-12.25	543.28	-326.63	622.60	579.48	43.12	14.438		
6,100.00	6,099.44	6,126.00	6,071.66	21.64	28.06	-13.89	539.62	-343.46	621.54	577.50	44.04	14.113		
6,197.86	6,196.88	6,222.94	6,166.53	21.99	28.64	-15.84	534.65	-362.77	619.64	574.63	45.01	13.766		
6,200.00	6,199.01	6,225.05	6,168.60	21.99	28.65	-15.88	534.53	-363.20	619.59	574.55	45.03	13.758		
6,300.00	6,298.50	6,323.98	6,265.38	22.35	29.18	-17.92	529.11	-382.95	617.37	571.32	46.04	13.408		
6,400.00	6,397.99	6,425.29	6,364.67	22.71	29.73	-19.96	523.67	-402.33	615.50	568.42	47.08	13.073		
6,500.00	6,497.49	6,527.01	6,464.52	23.07	30.27	-21.95	518.14	-420.89	613.78	565.65	48.13	12.752		
6,600.00	6,596.98	6,628.35	6,564.15	23.42	30.82	-23.90	512.46	-438.55	612.10	562.91	49.18	12.445		
6,700.00	6,696.47	6,727.96	6,662.37	23.78	31.37	-25.67	507.80	-454.47	610.73	560.51	50.22	12.160		
6,800.00	6,795.96	6,827.80	6,760.97	24.14	31.90	-27.36	503.62	-469.57	609.67	558.40	51.27	11.892		
6,900.00	6,895.45	6,927.71	6,859.86	24.51	32.43	-28.91	500.44	-483.47	608.89	556.59	52.30	11.642		
7,000.00	6,994.94	7,032.74	6,964.14	24.87	33.01	-30.28	498.92	-495.86	608.08	554.72	53.35	11.398		
7,100.00	7,094.44	7,139.96	7,070.82	25.23	33.57	-31.56	497.41	-506.52	606.14	551.76	54.38	11.146		
7,200.00	7,193.93	7,243.45	7,173.92	25.59	34.09	-32.70	496.14	-515.34	603.49	548.11	55.37	10.899		
7,300.00	7,293.42	7,350.56	7,280.84	25.95	34.57	-33.53	497.28	-521.37	600.15	543.83	56.32	10.656		
7,400.00	7,392.91	7,451.84	7,382.02	26.32	34.87	-33.98	500.66	-524.23	596.03	538.94	57.09	10.440		
7,500.00	7,492.40	7,561.73	7,491.85	26.68	35.08	-34.42	504.09	-526.14	590.95	533.16	57.79	10.226		
7,600.00	7,591.90	7,665.93	7,596.02	27.05	35.25	-34.90	506.27	-527.21	584.71	526.25	58.46	10.002		
7,700.00	7,691.39	7,768.86	7,698.93	27.41	35.35	-35.34	508.31	-527.48	577.84	518.76	59.08	9.781		
7,800.00	7,790.88	7,870.48	7,800.53	27.78	35.42	-35.76	510.24	-527.25	570.56	510.88	59.68	9.561		
7,900.00	7,890.37	7,969.25	7,899.28	28.14	35.49	-36.18	512.10	-526.81	563.11	502.83	60.28	9.341		
8,000.00	7,989.86	8,068.24	7,998.25	28.51	35.60	-36.63	513.89	-526.97	556.17	495.24	60.93	9.128		
8,100.00	8,089.36	8,166.20	8,096.19	28.87	35.76	-37.17	515.40	-527.65	549.52	487.91	61.61	8.919		
8,200.00	8,188.85	8,267.71	8,197.70	29.24	35.93	-37.75	516.60	-528.22	542.63	480.35	62.29	8.712		
8,300.00	8,288.34	8,367.43	8,297.41	29.61	36.09	-38.34	517.63	-528.59	535.57	472.60	62.97	8.506		
8,400.00	8,387.83	8,464.57	8,394.55	29.98	36.29	-38.94	518.66	-529.20	528.79	465.10	63.69	8.303		
8,500.00	8,487.32	8,576.09	8,506.06	30.34	36.50	-39.72	519.01	-529.79	521.64	457.37	64.26	8.117		
8,600.00	8,586.81	8,679.60	8,609.55	30.71	36.62	-40.58	517.36	-529.06	512.50	447.75	64.75	7.915		
8,700.00	8,686.31	8,777.00	8,706.93	31.08	36.70	-41.47	515.41	-528.56	503.44	438.16	65.28	7.713		
8,759.66	8,745.66	8,834.76	8,764.68	31.30	36.78	-42.06	514.03	-528.62	498.30	432.67	65.63	7.593		
8,800.00	8,785.81	8,871.00	8,800.90	31.45	36.83	-42.42	513.05	-528.77	495.02	429.13	65.89	7.513		
8,900.00	8,885.45	8,966.74	8,896.62	31.82	37.09	-43.21	511.60	-529.39	488.64	422.04	66.60	7.336		
9,000.00	8,985.22	9,068.08	8,997.97	32.18	37.32	-43.70	512.00	-529.62	484.11	416.83	67.28	7.196		
9,100.00	9,085.09	9,164.75	9,094.63	32.54	37.47	-43.98	513.01	-529.76	481.10	413.18	67.92	7.084		
9,200.00	9,185.04	9,262.60	9,192.47	32.90	37.67	-44.15	514.18	-530.38	479.86	411.29	68.57	6.998		
9,215.78	9,200.82	9,277.64	9,207.50	32.96	37.70	-44.16	514.38	-530.53	479.83	411.15	68.68	6.986 CC, ES		
9,300.00	9,285.02	9,357.83	9,287.68	33.26	37.91	-44.19	515.63	-531.64	480.63	411.37	69.25	6.940		
9,337.52	9,322.54	9,393.48	9,323.32	33.39	38.00	-63.14	516.41	-532.26	481.50	411.99	69.51	6.927		
9,350.00	9,335.02	9,405.34	9,335.17	33.44	38.03	117.38	516.71	-532.48	481.92	412.34	69.59	6.926 SF		

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



Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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	
9,375.00	9,359.99	9,429.01	9,358.83	33.51	38.10	117.41	517.38	-532.94	483.28	413.55	69.72	6.931	
9,400.00	9,384.85	9,454.74	9,384.54	33.59	38.16	117.54	518.17	-533.44	485.27	415.43	69.84	6.948	
9,425.00	9,409.54	9,481.91	9,411.69	33.67	38.23	117.76	518.89	-533.89	487.78	417.85	69.93	6.975	
9,450.00	9,433.99	9,508.83	9,438.61	33.74	38.29	118.06	519.47	-534.24	490.80	420.81	69.99	7.012	
9,475.00	9,458.13	9,535.47	9,465.24	33.81	38.36	118.43	519.91	-534.50	494.37	424.35	70.02	7.060	
9,500.00	9,481.91	9,561.65	9,491.42	33.87	38.40	118.83	520.19	-534.69	498.51	428.50	70.01	7.121	
9,525.00	9,505.24	9,587.47	9,517.24	33.94	38.45	119.27	520.31	-534.81	503.26	433.28	69.98	7.192	
9,550.00	9,528.08	9,612.86	9,542.63	34.00	38.49	119.73	520.28	-534.87	508.65	438.73	69.93	7.274	
9,575.00	9,550.35	9,636.32	9,566.09	34.06	38.53	120.13	520.14	-534.88	514.74	444.87	69.86	7.368	
9,600.00	9,572.00	9,656.94	9,586.71	34.12	38.55	120.40	520.05	-534.88	521.66	451.87	69.79	7.475	
9,625.00	9,592.97	9,676.83	9,606.60	34.17	38.58	120.62	520.03	-534.89	529.48	459.78	69.70	7.597	
9,650.00	9,613.19	9,695.92	9,625.69	34.22	38.60	120.76	520.08	-534.89	538.22	468.63	69.59	7.734	
9,675.00	9,632.62	9,714.16	9,643.93	34.27	38.63	120.82	520.19	-534.89	547.90	478.44	69.46	7.888	
9,700.00	9,651.19	9,731.39	9,661.16	34.32	38.65	120.75	520.35	-534.90	558.53	489.20	69.33	8.056	
9,725.00	9,668.87	9,747.57	9,677.34	34.36	38.67	120.54	520.55	-534.91	570.13	500.93	69.20	8.239	
9,750.00	9,685.60	9,762.77	9,692.53	34.40	38.70	120.17	520.78	-534.93	582.68	513.62	69.05	8.438	
9,775.00	9,701.33	9,776.00	9,705.76	34.44	38.72	119.54	521.01	-534.96	596.17	527.26	68.91	8.652	
9,800.00	9,716.02	9,776.00	9,705.76	34.48	38.72	117.65	521.01	-534.96	610.75	541.98	68.77	8.881	
9,825.00	9,729.64	9,776.00	9,705.76	34.52	38.72	115.48	521.01	-534.96	626.47	557.87	68.59	9.133	
9,850.00	9,742.14	9,776.00	9,705.76	34.56	38.72	113.02	521.01	-534.96	643.18	574.79	68.40	9.403	
9,875.00	9,753.49	9,776.00	9,705.76	34.60	38.72	110.25	521.01	-534.96	660.79	592.60	68.19	9.690	
9,900.00	9,763.65	9,803.52	9,733.24	34.64	38.76	110.26	522.39	-535.05	677.92	609.59	68.33	9.921	
9,925.00	9,772.61	9,806.59	9,736.31	34.68	38.76	107.40	522.65	-535.07	696.66	628.47	68.19	10.216	
9,950.00	9,780.34	9,808.99	9,738.69	34.72	38.77	104.15	522.86	-535.08	716.01	647.97	68.05	10.522	
9,975.00	9,786.81	9,810.73	9,740.42	34.75	38.77	100.53	523.03	-535.09	735.88	667.98	67.90	10.838	
10,000.00	9,792.01	9,811.87	9,741.55	34.79	38.77	96.55	523.14	-535.10	756.19	688.44	67.75	11.161	
10,025.00	9,795.92	9,812.43	9,742.12	34.83	38.77	92.23	523.20	-535.10	776.85	709.25	67.60	11.491	
10,050.00	9,798.53	9,812.46	9,742.14	34.87	38.77	87.64	523.20	-535.10	797.79	730.33	67.46	11.826	
10,075.00	9,799.84	9,811.99	9,741.68	34.90	38.77	82.85	523.16	-535.10	818.92	751.61	67.31	12.166	
10,087.52	9,800.00	9,811.58	9,741.27	34.92	38.77	80.40	523.11	-535.10	829.55	762.31	67.24	12.337	
10,100.00	9,800.00	9,811.11	9,740.80	34.94	38.77	80.34	523.07	-535.09	840.20	773.03	67.17	12.508	
10,200.00	9,800.00	9,807.72	9,737.43	35.13	38.76	79.91	522.75	-535.07	927.09	860.41	66.68	13.903	
10,300.00	9,800.00	9,776.00	9,705.76	35.37	38.72	75.87	521.01	-534.96	1,017.65	951.86	65.79	15.468	
10,400.00	9,800.00	9,776.00	9,705.76	35.68	38.72	75.87	521.01	-534.96	1,108.51	1,042.99	65.53	16.917	
10,500.00	9,800.00	9,776.00	9,705.76	36.03	38.72	75.87	521.01	-534.96	1,200.83	1,135.51	65.32	18.384	
10,600.00	9,800.00	9,776.00	9,705.76	36.44	38.72	75.87	521.01	-534.96	1,294.29	1,229.13	65.16	19.864	
10,700.00	9,800.00	9,776.00	9,705.76	36.90	38.72	75.87	521.01	-534.96	1,388.66	1,323.63	65.03	21.354	
10,800.00	9,800.00	9,776.00	9,705.76	37.41	38.72	75.87	521.01	-534.96	1,483.77	1,418.84	64.93	22.852	
10,900.00	9,800.00	9,776.00	9,705.76	37.97	38.72	75.87	521.01	-534.96	1,579.48	1,514.63	64.85	24.357	
11,000.00	9,800.00	9,776.00	9,705.76	38.58	38.72	75.87	521.01	-534.96	1,675.69	1,610.91	64.78	25.866	
11,100.00	9,800.00	9,776.00	9,705.76	39.23	38.72	75.87	521.01	-534.96	1,772.33	1,707.59	64.73	27.380	
11,200.00	9,800.00	9,776.00	9,705.76	39.91	38.72	75.87	521.01	-534.96	1,869.31	1,804.62	64.69	28.896	
11,300.00	9,800.00	9,776.00	9,705.76	40.64	38.72	75.87	521.01	-534.96	1,966.60	1,901.94	64.66	30.414	
11,400.00	9,800.00	9,776.00	9,705.76	41.41	38.72	75.87	521.01	-534.96	2,064.15	1,999.51	64.64	31.935	
11,500.00	9,800.00	9,776.00	9,705.76	42.21	38.72	75.87	521.01	-534.96	2,161.92	2,097.30	64.62	33.456	
11,600.00	9,800.00	9,776.00	9,705.76	43.04	38.72	75.87	521.01	-534.96	2,259.89	2,195.28	64.61	34.978	
11,700.00	9,800.00	9,776.00	9,705.76	43.91	38.72	75.87	521.01	-534.96	2,358.02	2,293.42	64.60	36.501	
11,800.00	9,800.00	9,776.00	9,705.76	44.80	38.72	75.87	521.01	-534.96	2,456.31	2,391.71	64.60	38.024	
11,900.00	9,800.00	9,776.00	9,705.76	45.73	38.72	75.87	521.01	-534.96	2,554.73	2,490.13	64.60	39.547	
12,000.00	9,800.00	9,776.00	9,705.76	46.67	38.72	75.87	521.01	-534.96	2,653.27	2,588.67	64.60	41.070	
12,100.00	9,800.00	9,776.00	9,705.76	47.65	38.72	75.87	521.01	-534.96	2,751.92	2,687.31	64.61	42.592	
12,200.00	9,800.00	9,776.00	9,705.76	48.64	38.72	75.87	521.01	-534.96	2,850.65	2,786.03	64.62	44.114	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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						
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
12,300.00	9,800.00	9,776.00	9,705.76	49.66	38.72	75.87	521.01	-534.96	2,949.48	2,884.85	64.63	45.635	
12,400.00	9,800.00	9,776.00	9,705.76	50.70	38.72	75.87	521.01	-534.96	3,048.38	2,983.73	64.65	47.154	
12,500.00	9,800.00	9,776.00	9,705.76	51.76	38.72	75.87	521.01	-534.96	3,147.35	3,082.69	64.66	48.673	
12,600.00	9,800.00	9,776.00	9,705.76	52.84	38.72	75.87	521.01	-534.96	3,246.38	3,181.70	64.68	50.190	
12,700.00	9,800.00	9,776.00	9,705.76	53.93	38.72	75.87	521.01	-534.96	3,345.47	3,280.77	64.70	51.706	
12,800.00	9,800.00	9,776.00	9,705.76	55.04	38.72	75.87	521.01	-534.96	3,444.62	3,379.89	64.72	53.220	
12,900.00	9,800.00	9,776.00	9,705.76	56.16	38.72	75.87	521.01	-534.96	3,543.81	3,479.06	64.75	54.733	
13,000.00	9,800.00	9,776.00	9,705.76	57.30	38.72	75.87	521.01	-534.96	3,643.04	3,578.27	64.77	56.244	
13,100.00	9,800.00	9,776.00	9,705.76	58.45	38.72	75.87	521.01	-534.96	3,742.32	3,677.52	64.80	57.753	
13,200.00	9,800.00	9,776.00	9,705.76	59.61	38.72	75.87	521.01	-534.96	3,841.63	3,776.81	64.83	59.261	
13,300.00	9,800.00	9,776.00	9,705.76	60.79	38.72	75.87	521.01	-534.96	3,940.98	3,876.13	64.86	60.766	
13,400.00	9,800.00	9,776.00	9,705.76	61.98	38.72	75.87	521.01	-534.96	4,040.36	3,975.48	64.89	62.269	
13,500.00	9,800.00	9,776.00	9,705.76	63.17	38.72	75.87	521.01	-534.96	4,139.77	4,074.85	64.92	63.770	
13,600.00	9,800.00	9,776.00	9,705.76	64.38	38.72	75.87	521.01	-534.96	4,239.21	4,174.26	64.95	65.269	
13,700.00	9,800.00	9,776.00	9,705.76	65.60	38.72	75.87	521.01	-534.96	4,338.67	4,273.69	64.98	66.765	
13,800.00	9,800.00	9,776.00	9,705.76	66.82	38.72	75.87	521.01	-534.96	4,438.16	4,373.14	65.02	68.259	
13,900.00	9,800.00	9,776.00	9,705.76	68.06	38.72	75.87	521.01	-534.96	4,537.67	4,472.62	65.06	69.750	
14,000.00	9,800.00	9,776.00	9,705.76	69.30	38.72	75.87	521.01	-534.96	4,637.20	4,572.11	65.09	71.239	
14,100.00	9,800.00	9,776.00	9,705.76	70.55	38.72	75.87	521.01	-534.96	4,736.76	4,671.62	65.13	72.725	
14,200.00	9,800.00	9,776.00	9,705.76	71.80	38.72	75.87	521.01	-534.96	4,836.33	4,771.15	65.17	74.209	
14,300.00	9,800.00	9,776.00	9,705.76	73.07	38.72	75.87	521.01	-534.96	4,935.91	4,870.70	65.21	75.690	
14,400.00	9,800.00	9,776.00	9,705.76	74.34	38.72	75.87	521.01	-534.96	5,035.52	4,970.26	65.25	77.168	
14,500.00	9,800.00	9,776.00	9,705.76	75.61	38.72	75.87	521.01	-534.96	5,135.14	5,069.84	65.30	78.643	
14,600.00	9,800.00	9,776.00	9,705.76	76.89	38.72	75.87	521.01	-534.96	5,234.77	5,169.43	65.34	80.115	
14,700.00	9,800.00	9,776.00	9,705.76	78.18	38.72	75.87	521.01	-534.96	5,334.42	5,269.03	65.39	81.584	
14,800.00	9,800.00	9,776.00	9,705.76	79.47	38.72	75.87	521.01	-534.96	5,434.08	5,368.64	65.43	83.050	
14,900.00	9,800.00	9,776.00	9,705.76	80.77	38.72	75.87	521.01	-534.96	5,533.75	5,468.27	65.48	84.513	
15,000.00	9,800.00	9,776.00	9,705.76	82.07	38.72	75.87	521.01	-534.96	5,633.43	5,567.91	65.53	85.972	
15,100.00	9,800.00	9,776.00	9,705.76	83.38	38.72	75.87	521.01	-534.96	5,733.13	5,667.55	65.57	87.429	
15,200.00	9,800.00	9,776.00	9,705.76	84.69	38.72	75.87	521.01	-534.96	5,832.83	5,767.21	65.62	88.882	
15,300.00	9,800.00	9,776.00	9,705.76	86.00	38.72	75.87	521.01	-534.96	5,932.55	5,866.87	65.68	90.332	
15,400.00	9,800.00	9,776.00	9,705.76	87.32	38.72	75.87	521.01	-534.96	6,032.27	5,966.55	65.73	91.778	
15,500.00	9,800.00	9,776.00	9,705.76	88.64	38.72	75.87	521.01	-534.96	6,132.01	6,066.23	65.78	93.221	
15,600.00	9,800.00	9,776.00	9,705.76	89.97	38.72	75.87	521.01	-534.96	6,231.75	6,165.92	65.83	94.661	
15,700.00	9,800.00	9,776.00	9,705.76	91.30	38.72	75.87	521.01	-534.96	6,331.50	6,265.61	65.89	96.097	
15,800.00	9,800.00	9,776.00	9,705.76	92.63	38.72	75.87	521.01	-534.96	6,431.26	6,365.32	65.94	97.529	
15,900.00	9,800.00	9,776.00	9,705.76	93.97	38.72	75.87	521.01	-534.96	6,531.02	6,465.03	66.00	98.958	
16,000.00	9,800.00	9,776.00	9,705.76	95.31	38.72	75.87	521.01	-534.96	6,630.80	6,564.74	66.05	100.383	
16,100.00	9,800.00	9,776.00	9,705.76	96.65	38.72	75.87	521.01	-534.96	6,730.58	6,664.46	66.11	101.805	
16,200.00	9,800.00	9,776.00	9,705.76	97.99	38.72	75.87	521.01	-534.96	6,830.36	6,764.19	66.17	103.222	
16,300.00	9,800.00	9,776.00	9,705.76	99.34	38.72	75.87	521.01	-534.96	6,930.15	6,863.92	66.23	104.636	
16,400.00	9,800.00	9,776.00	9,705.76	100.69	38.72	75.87	521.01	-534.96	7,029.95	6,963.66	66.29	106.046	
16,500.00	9,800.00	9,776.00	9,705.76	102.04	38.72	75.87	521.01	-534.96	7,129.76	7,063.40	66.35	107.452	
16,600.00	9,800.00	9,776.00	9,705.76	103.40	38.72	75.87	521.01	-534.96	7,229.57	7,163.15	66.41	108.855	
16,700.00	9,800.00	9,776.00	9,705.76	104.75	38.72	75.87	521.01	-534.96	7,329.38	7,262.90	66.48	110.253	
16,800.00	9,800.00	9,776.00	9,705.76	106.11	38.72	75.87	521.01	-534.96	7,429.20	7,362.66	66.54	111.647	
16,900.00	9,800.00	9,776.00	9,705.76	107.47	38.72	75.87	521.01	-534.96	7,529.02	7,462.42	66.61	113.038	
17,000.00	9,800.00	9,776.00	9,705.76	108.84	38.72	75.87	521.01	-534.96	7,628.85	7,562.18	66.67	114.424	
17,100.00	9,800.00	9,760.44	9,690.21	110.20	38.69	73.94	520.74	-534.93	7,728.65	7,661.92	66.73	115.828	
17,200.00	9,800.00	9,759.78	9,689.55	111.57	38.69	73.86	520.73	-534.93	7,828.48	7,761.69	66.79	117.207	
17,300.00	9,800.00	9,759.13	9,688.89	112.94	38.69	73.78	520.72	-534.93	7,928.32	7,861.46	66.86	118.582	
17,328.76	9,800.00	9,758.94	9,688.71	113.33	38.69	73.75	520.72	-534.93	7,957.03	7,890.15	66.88	118.976	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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



Aim Directional Services, LLC

Anticollision Report



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Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
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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												Offset Site Error:	0.00 usft
Survey Program: 191-												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 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	15.19	15.19	0.00	1.01	22.53	702.91	291.59	760.99				
100.00	100.00	113.83	113.83	0.13	1.34	22.53	703.04	291.58	761.10	759.64	1.46	519.770	
200.00	200.00	212.60	212.60	0.49	1.90	22.52	703.36	291.57	761.40	759.01	2.39	318.388	
300.00	300.00	312.08	312.08	0.85	2.46	22.51	703.74	291.71	761.81	758.55	3.26	233.671	
400.00	400.00	411.85	411.84	1.21	2.92	22.52	704.11	291.97	762.25	758.25	4.00	190.487	
500.00	500.00	511.08	511.07	1.57	3.37	22.53	704.54	292.24	762.76	758.01	4.75	160.633	
600.00	600.00	610.86	610.85	1.93	3.79	22.53	705.07	292.53	763.36	757.85	5.51	138.575	
700.00	700.00	709.60	709.60	2.29	4.19	22.53	705.69	292.71	764.01	757.73	6.28	121.605	
800.00	800.00	811.27	811.26	2.64	4.67	22.53	706.32	293.02	764.70	757.62	7.08	107.971	
900.00	900.00	914.28	914.26	3.00	5.04	22.55	706.58	293.38	765.07	757.29	7.78	98.353	
1,000.00	1,000.00	1,015.89	1,015.88	3.36	5.28	22.56	706.53	293.50	765.07	756.73	8.34	91.728	
1,100.00	1,100.00	1,117.47	1,117.45	3.72	5.58	22.56	706.38	293.47	764.92	755.95	8.97	85.270	
1,200.00	1,200.00	1,219.46	1,219.44	4.08	5.90	22.56	705.99	293.35	764.52	754.89	9.63	79.390	
1,300.00	1,300.00	1,321.28	1,321.27	4.44	6.24	22.56	705.41	293.01	763.87	753.58	10.29	74.230	
1,400.00	1,400.00	1,421.26	1,421.24	4.79	6.57	22.54	704.77	292.51	763.08	752.15	10.94	69.764	
1,500.00	1,500.00	1,519.85	1,519.83	5.15	6.88	22.52	704.32	291.97	762.45	750.89	11.56	65.939	
1,600.00	1,600.00	1,621.05	1,621.02	5.51	7.18	22.48	703.87	291.19	761.75	749.56	12.18	62.523	
1,700.00	1,700.00	1,719.68	1,719.65	5.87	7.45	22.42	703.54	290.31	761.10	748.31	12.79	59.498	
1,800.00	1,800.00	1,820.48	1,820.45	6.23	7.73	22.38	703.30	289.53	760.58	747.16	13.41	56.697	
1,900.00	1,900.00	1,920.55	1,920.51	6.59	8.03	22.33	702.75	288.68	759.75	745.70	14.04	54.098	
1,980.79	1,980.79	1,996.23	1,996.19	6.88	8.21	22.29	702.68	288.09	759.44	744.94	14.50	52.377	
2,000.00	2,000.00	2,013.00	2,012.96	6.95	8.24	22.29	702.74	288.00	759.47	744.88	14.59	52.055	
2,100.00	2,100.00	2,105.73	2,105.69	7.30	8.59	22.27	703.43	288.12	760.21	744.98	15.23	49.909	
2,200.00	2,200.00	2,203.95	2,203.89	7.66	8.99	22.33	704.66	289.41	761.86	746.00	15.86	48.039	
2,300.00	2,300.00	2,316.07	2,315.99	8.02	9.31	22.47	704.79	291.49	762.69	746.12	16.57	46.039	
2,400.00	2,400.00	2,433.38	2,433.23	8.38	9.56	22.75	702.08	294.41	761.52	744.30	17.22	44.218	
2,500.00	2,500.00	2,560.32	2,559.94	8.74	9.96	23.16	695.23	297.41	757.49	739.55	17.94	42.228	
2,600.00	2,600.00	2,687.18	2,686.28	9.10	10.41	23.60	683.93	298.83	749.72	730.90	18.82	39.841	
2,700.00	2,700.00	2,802.47	2,800.70	9.45	10.78	24.14	669.88	300.28	739.04	719.37	19.67	37.574	
2,800.00	2,800.00	2,908.85	2,905.96	9.81	11.30	24.82	654.69	302.80	726.98	706.41	20.57	35.343	
2,900.00	2,900.00	3,013.79	3,009.63	10.17	11.89	25.56	638.65	305.40	714.15	692.67	21.49	33.236	
3,000.00	3,000.00	3,119.39	3,113.79	10.53	12.45	26.36	621.45	308.00	700.53	678.16	22.38	31.306	
3,100.00	3,100.00	3,223.04	3,215.85	10.89	12.98	27.22	603.54	310.45	686.09	662.87	23.23	29.535	
3,200.00	3,200.00	3,319.30	3,310.62	11.25	13.33	28.05	586.79	312.70	671.69	647.77	23.93	28.074	
3,300.00	3,300.00	3,414.32	3,404.20	11.61	13.68	28.90	570.54	315.00	657.75	633.13	24.62	26.718	
3,400.00	3,400.00	3,503.14	3,491.97	11.96	14.08	29.59	556.97	316.31	645.08	619.71	25.37	25.429	
3,500.00	3,500.00	3,594.06	3,582.07	12.32	14.52	30.19	544.86	317.03	633.90	607.75	26.15	24.243	
3,600.00	3,600.00	3,686.88	3,674.22	12.68	14.90	30.76	533.75	317.73	623.94	597.07	26.86	23.228	
3,700.00	3,700.00	3,781.12	3,767.93	13.04	15.27	31.26	523.78	317.91	614.96	587.39	27.57	22.307	
3,800.00	3,800.00	3,875.94	3,862.36	13.40	15.64	31.61	515.20	317.11	606.79	578.50	28.29	21.446	
3,900.00	3,900.00	3,963.00	3,949.18	13.76	15.99	31.82	508.85	315.77	599.82	570.79	29.03	20.661	
4,000.00	4,000.00	4,058.00	4,044.05	14.11	16.42	31.91	504.37	314.08	594.85	564.97	29.89	19.903	
4,100.00	4,100.00	4,141.64	4,127.66	14.47	16.69	31.89	502.47	312.63	591.91	561.34	30.58	19.357	
4,200.00	4,200.00	4,240.46	4,226.46	14.83	16.96	31.82	501.26	311.06	590.03	558.79	31.24	18.885	
4,300.00	4,300.00	4,340.18	4,326.15	15.19	17.23	31.76	500.02	309.55	588.18	556.27	31.91	18.431	
4,400.00	4,400.00	4,438.55	4,424.51	15.55	17.50	31.71	498.89	308.21	586.49	553.91	32.58	18.002	
4,500.00	4,500.00	4,538.15	4,524.10	15.91	17.78	31.66	497.86	306.99	584.96	551.70	33.26	17.588	
4,600.00	4,600.00	4,636.84	4,622.77	16.27	18.07	31.62	496.91	305.94	583.58	549.65	33.93	17.198	
4,700.00	4,700.00	4,735.14	4,721.07	16.62	18.37	31.59	496.11	305.14	582.47	547.85	34.62	16.825	
4,800.00	4,800.00	4,833.98	4,819.91	16.98	18.68	31.58	495.47	304.57	581.61	546.30	35.31	16.470	
4,900.00	4,900.00	4,933.57	4,919.50	17.34	19.02	31.58	494.81	304.19	580.85	544.82	36.03	16.123	
5,000.00	5,000.00	5,032.10	5,018.02	17.70	19.36	31.59	494.26	304.01	580.27	543.54	36.73	15.798	

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



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Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,100.00	5,130.87	5,116.80	18.06	19.69	31.61	493.90	303.95	579.94	542.52	37.41	15.500	
5,200.00	5,200.00	5,230.58	5,216.50	18.42	19.99	31.62	493.66	303.99	579.75	541.69	38.06	15.233	
5,300.00	5,300.00	5,331.10	5,317.02	18.77	20.27	31.65	493.30	304.12	579.51	540.83	38.68	14.981	
5,400.00	5,400.00	5,430.50	5,416.42	19.13	20.54	31.69	492.89	304.25	579.24	539.96	39.28	14.747	
5,455.54	5,455.54	5,485.02	5,470.94	19.33	20.65	31.71	492.72	304.44	579.18	539.60	39.58	14.632	
5,500.00	5,500.00	5,528.52	5,514.44	19.49	20.71	31.74	492.62	304.67	579.22	539.44	39.79	14.559	
5,600.00	5,600.00	5,628.79	5,614.71	19.85	20.89	31.78	492.50	305.14	579.37	539.07	40.29	14.379	
5,620.00	5,620.00	5,648.84	5,634.76	19.92	20.92	31.79	492.48	305.20	579.39	538.99	40.39	14.344	
5,700.00	5,700.00	5,729.57	5,715.48	20.21	21.08	50.84	492.44	305.38	579.09	538.26	40.83	14.184	
5,800.00	5,799.97	5,830.21	5,816.13	20.57	21.29	51.03	492.35	305.33	577.56	536.17	41.39	13.955	
5,900.00	5,899.89	5,929.04	5,914.96	20.92	21.42	51.30	492.56	304.85	574.96	533.05	41.91	13.720	
6,000.00	5,999.72	6,026.99	6,012.90	21.28	21.52	51.71	493.07	304.45	571.60	529.20	42.40	13.482	
6,100.00	6,099.44	6,127.68	6,113.59	21.64	21.64	52.27	493.78	304.08	567.36	524.47	42.90	13.226	
6,197.86	6,196.88	6,224.75	6,210.66	21.99	21.76	53.00	494.13	303.88	562.05	518.66	43.39	12.954	
6,200.00	6,199.01	6,226.85	6,212.76	21.99	21.77	53.02	494.14	303.87	561.93	518.53	43.40	12.948	
6,300.00	6,298.50	6,325.87	6,311.77	22.35	21.90	53.77	494.79	303.55	556.27	512.36	43.91	12.668	
6,400.00	6,397.99	6,425.10	6,411.01	22.71	22.03	54.52	495.61	303.09	550.76	506.33	44.42	12.398	
6,500.00	6,497.49	6,527.09	6,512.98	23.07	22.16	55.29	496.45	302.36	545.20	500.25	44.95	12.130	
6,600.00	6,596.98	6,625.62	6,611.51	23.42	22.29	56.05	497.10	301.55	539.54	494.08	45.46	11.868	
6,700.00	6,696.47	6,725.00	6,710.89	23.78	22.42	56.83	497.86	300.83	534.13	488.14	45.99	11.614	
6,800.00	6,795.96	6,823.77	6,809.65	24.14	22.57	57.61	498.74	300.12	528.91	482.39	46.52	11.369	
6,900.00	6,895.45	6,923.13	6,909.00	24.51	22.73	58.42	499.66	299.50	523.89	476.82	47.07	11.130	
7,000.00	6,994.94	7,021.77	7,007.64	24.87	22.90	59.26	500.58	299.07	519.10	471.48	47.62	10.900	
7,100.00	7,094.44	7,120.63	7,106.49	25.23	23.09	60.09	501.69	298.65	514.58	466.39	48.19	10.678	
7,200.00	7,193.93	7,219.05	7,204.90	25.59	23.28	60.93	503.01	298.30	510.37	461.61	48.76	10.467	
7,300.00	7,293.42	7,318.10	7,303.95	25.95	23.49	61.80	504.44	298.09	506.46	457.12	49.34	10.264	
7,400.00	7,392.91	7,418.02	7,403.85	26.32	23.70	62.71	505.72	298.11	502.70	452.77	49.94	10.066	
7,500.00	7,492.40	7,518.03	7,503.85	26.68	23.92	63.62	507.01	297.93	498.94	448.40	50.54	9.873	
7,600.00	7,591.90	7,616.28	7,602.09	27.05	24.14	64.49	508.60	297.57	495.40	444.27	51.13	9.688	
7,700.00	7,691.39	7,713.65	7,699.44	27.41	24.36	65.34	510.55	297.39	492.39	440.66	51.73	9.518	
7,800.00	7,790.88	7,810.97	7,796.73	27.78	24.59	66.18	513.00	297.39	489.96	437.63	52.33	9.363	
7,900.00	7,890.37	7,910.51	7,896.23	28.14	24.83	67.05	515.68	297.73	488.03	435.09	52.94	9.218	
8,000.00	7,989.86	8,010.63	7,996.31	28.51	25.08	67.91	518.38	297.77	485.98	432.41	53.57	9.072	
8,100.00	8,089.36	8,109.92	8,095.57	28.87	25.34	68.79	521.02	297.98	484.15	429.96	54.19	8.934	
8,200.00	8,188.85	8,208.86	8,194.47	29.24	25.61	69.64	523.93	298.05	482.50	427.68	54.82	8.801	
8,300.00	8,288.34	8,306.60	8,292.16	29.61	25.89	70.47	527.00	298.32	481.26	425.81	55.45	8.679	
8,400.00	8,387.83	8,404.80	8,390.30	29.98	26.17	71.34	530.18	299.04	480.53	424.45	56.08	8.569	
8,500.00	8,487.32	8,517.41	8,502.88	30.34	26.54	72.57	531.68	300.19	479.06	422.21	56.85	8.426	
8,600.00	8,586.81	8,621.48	8,606.92	30.71	26.98	74.07	529.34	301.12	475.56	417.88	57.67	8.246	
8,700.00	8,686.31	8,718.37	8,703.79	31.08	27.26	75.43	527.43	301.61	472.20	413.86	58.34	8.094	
8,759.66	8,745.66	8,777.92	8,763.34	31.30	27.44	76.24	526.59	301.84	470.45	411.71	58.74	8.009	
8,800.00	8,785.81	8,817.46	8,802.87	31.45	27.55	76.74	526.11	301.91	469.33	410.33	59.00	7.955	
8,900.00	8,885.45	8,911.41	8,896.82	31.82	27.74	77.74	525.78	302.48	467.77	408.21	59.55	7.854	
9,000.00	8,985.22	9,012.80	8,998.21	32.18	27.91	78.56	526.14	303.17	467.15	407.07	60.08	7.775	
9,100.00	9,085.09	9,117.18	9,102.58	32.54	28.12	79.10	526.69	302.73	466.07	405.42	60.65	7.684	
9,200.00	9,185.04	9,216.90	9,202.29	32.90	28.35	79.28	527.94	301.54	465.05	403.79	61.25	7.592	
9,300.00	9,285.02	9,317.27	9,302.63	33.26	28.61	79.14	529.94	299.92	464.35	402.50	61.85	7.507	
9,337.52	9,322.54	9,355.16	9,340.50	33.39	28.70	80.04	530.74	299.24	464.13	402.05	62.08	7.476	
9,342.98	9,328.00	9,360.68	9,346.01	33.41	28.72	-119.46	530.85	299.14	464.12	402.01	62.11	7.472 CC	
9,350.00	9,335.02	9,367.76	9,353.10	33.44	28.74	-119.49	531.00	299.01	464.14	401.99	62.15	7.468 ES	
9,375.00	9,359.99	9,393.52	9,378.85	33.51	28.80	-119.68	531.54	298.50	464.63	402.34	62.29	7.459 SF	
9,400.00	9,384.85	9,419.38	9,404.70	33.59	28.86	-119.94	532.07	297.94	465.72	403.29	62.43	7.460	

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Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
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9,425.00	9,409.54	9,445.04	9,430.34	33.67	28.92	-120.28	532.58	297.31	467.43	404.88	62.56	7.472	
9,450.00	9,433.99	9,470.41	9,455.70	33.74	28.98	-120.69	533.09	296.63	469.80	407.11	62.68	7.495	
9,475.00	9,458.13	9,494.30	9,479.57	33.81	29.04	-121.11	533.59	295.95	472.87	410.07	62.81	7.529	
9,500.00	9,481.91	9,517.81	9,503.06	33.87	29.10	-121.57	534.12	295.25	476.72	413.80	62.92	7.576	
9,525.00	9,505.24	9,540.82	9,526.06	33.94	29.15	-122.04	534.70	294.55	481.38	418.35	63.03	7.637	
9,550.00	9,528.08	9,563.26	9,548.48	34.00	29.20	-122.51	535.29	293.83	486.88	423.74	63.14	7.711	
9,575.00	9,550.35	9,584.70	9,569.90	34.06	29.26	-122.92	535.85	293.18	493.28	430.04	63.24	7.800	
9,600.00	9,572.00	9,605.59	9,590.77	34.12	29.31	-123.28	536.31	292.64	500.60	437.26	63.34	7.904	
9,625.00	9,592.97	9,625.89	9,611.07	34.17	29.36	-123.57	536.67	292.19	508.86	445.44	63.43	8.023	
9,650.00	9,613.19	9,645.55	9,630.73	34.22	29.41	-123.78	536.95	291.83	518.08	454.57	63.51	8.157	
9,675.00	9,632.62	9,664.39	9,649.56	34.27	29.46	-123.89	537.16	291.56	528.27	464.68	63.59	8.307	
9,700.00	9,651.19	9,682.15	9,667.32	34.32	29.51	-123.85	537.35	291.34	539.43	475.76	63.67	8.473	
9,725.00	9,668.87	9,699.02	9,684.19	34.36	29.55	-123.69	537.53	291.15	551.56	487.83	63.73	8.654	
9,750.00	9,685.60	9,714.96	9,700.13	34.40	29.60	-123.36	537.70	291.00	564.66	500.86	63.80	8.851	
9,775.00	9,701.33	9,729.93	9,715.10	34.44	29.64	-122.85	537.86	290.88	578.70	514.85	63.85	9.063	
9,800.00	9,716.02	9,743.89	9,729.05	34.48	29.68	-122.14	538.01	290.78	593.66	529.76	63.90	9.290	
9,825.00	9,729.64	9,756.95	9,742.11	34.52	29.71	-121.21	538.16	290.70	609.51	545.57	63.95	9.532	
9,850.00	9,742.14	9,769.24	9,754.41	34.56	29.75	-120.04	538.30	290.62	626.20	562.21	63.99	9.786	
9,875.00	9,753.49	9,780.37	9,765.53	34.60	29.78	-118.59	538.43	290.55	643.67	579.65	64.02	10.053	
9,900.00	9,763.65	9,790.29	9,775.45	34.64	29.81	-116.80	538.54	290.48	661.89	597.83	64.06	10.333	
9,925.00	9,772.61	9,798.98	9,784.14	34.68	29.84	-114.63	538.65	290.42	680.79	616.71	64.08	10.624	
9,950.00	9,780.34	9,806.43	9,791.58	34.72	29.86	-112.05	538.74	290.36	700.33	636.23	64.10	10.926	
9,975.00	9,786.81	9,812.60	9,797.76	34.75	29.88	-109.02	538.82	290.31	720.42	656.31	64.11	11.237	
10,000.00	9,792.01	9,817.50	9,802.65	34.79	29.89	-105.49	538.88	290.27	741.02	676.90	64.12	11.557	
10,025.00	9,795.92	9,821.10	9,806.25	34.83	29.91	-101.45	538.92	290.24	762.04	697.92	64.12	11.884	
10,050.00	9,798.53	9,823.39	9,808.55	34.87	29.91	-96.88	538.95	290.22	783.42	719.30	64.12	12.218	
10,075.00	9,799.84	9,824.38	9,809.54	34.90	29.91	-91.84	538.96	290.22	805.08	740.96	64.11	12.557	
10,087.52	9,800.00	9,824.39	9,809.54	34.92	29.91	-89.15	538.96	290.22	816.00	751.89	64.11	12.728	
10,100.00	9,800.00	9,824.23	9,809.38	34.94	29.91	-89.13	538.96	290.22	826.95	762.84	64.10	12.900	
10,200.00	9,800.00	9,822.96	9,808.11	35.13	29.91	-88.94	538.95	290.23	916.03	851.95	64.07	14.297	
10,300.00	9,800.00	9,821.69	9,806.85	35.37	29.91	-88.76	538.93	290.24	1,007.16	943.10	64.05	15.723	
10,400.00	9,800.00	9,820.43	9,805.59	35.68	29.90	-88.58	538.91	290.25	1,099.83	1,035.79	64.04	17.173	
10,500.00	9,800.00	9,819.18	9,804.34	36.03	29.90	-88.40	538.90	290.26	1,193.68	1,129.64	64.04	18.640	
10,600.00	9,800.00	9,817.93	9,803.09	36.44	29.90	-88.22	538.88	290.27	1,288.46	1,224.42	64.04	20.120	
10,700.00	9,800.00	9,816.69	9,801.85	36.90	29.89	-88.04	538.87	290.28	1,383.97	1,319.93	64.04	21.611	
10,800.00	9,800.00	9,815.45	9,800.61	37.41	29.89	-87.86	538.85	290.29	1,480.08	1,416.03	64.05	23.110	
10,900.00	9,800.00	9,814.22	9,799.38	37.97	29.88	-87.68	538.84	290.30	1,576.66	1,512.61	64.05	24.615	
11,000.00	9,800.00	9,812.99	9,798.15	38.58	29.88	-87.50	538.82	290.31	1,673.65	1,609.59	64.06	26.126	
11,100.00	9,800.00	9,811.77	9,796.93	39.23	29.88	-87.32	538.81	290.32	1,770.97	1,706.90	64.07	27.641	
11,200.00	9,800.00	9,810.55	9,795.71	39.91	29.87	-87.15	538.79	290.33	1,868.58	1,804.49	64.08	29.159	
11,300.00	9,800.00	9,809.34	9,794.50	40.64	29.87	-86.97	538.78	290.34	1,966.42	1,902.33	64.10	30.679	
11,400.00	9,800.00	9,808.14	9,793.29	41.41	29.87	-86.80	538.76	290.35	2,064.47	2,000.36	64.11	32.202	
11,500.00	9,800.00	9,806.94	9,792.09	42.21	29.86	-86.63	538.75	290.36	2,162.70	2,098.57	64.13	33.726	
11,600.00	9,800.00	9,805.74	9,790.90	43.04	29.86	-86.45	538.73	290.36	2,261.08	2,196.94	64.14	35.251	
11,700.00	9,800.00	9,804.55	9,789.70	43.91	29.86	-86.28	538.72	290.37	2,359.60	2,295.44	64.16	36.777	
11,800.00	9,800.00	9,803.36	9,788.52	44.80	29.85	-86.11	538.70	290.38	2,458.24	2,394.06	64.18	38.303	
11,900.00	9,800.00	9,802.18	9,787.34	45.73	29.85	-85.94	538.69	290.39	2,556.98	2,492.78	64.20	39.830	
12,000.00	9,800.00	9,801.00	9,786.16	46.67	29.84	-85.77	538.67	290.40	2,655.81	2,591.60	64.22	41.356	
12,100.00	9,800.00	9,799.83	9,784.99	47.65	29.84	-85.60	538.66	290.41	2,754.73	2,690.49	64.24	42.882	
12,200.00	9,800.00	9,798.67	9,783.82	48.64	29.84	-85.43	538.64	290.42	2,853.73	2,789.47	64.26	44.408	
12,300.00	9,800.00	9,797.50	9,782.66	49.66	29.83	-85.27	538.63	290.43	2,952.79	2,888.50	64.28	45.933	
12,400.00	9,800.00	9,796.35	9,781.50	50.70	29.83	-85.10	538.62	290.44	3,051.91	2,987.60	64.31	47.457	

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 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Planning	Database:	RTOC- EDM 5000.1 Single User Db
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 191-												Offset Well Error:	1.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,500.00	9,800.00	9,795.19	9,780.35	51.76	29.83	-84.94	538.60	290.44	3,151.09	3,086.75	64.33	48.980	
12,600.00	9,800.00	9,794.05	9,779.21	52.84	29.82	-84.77	538.59	290.45	3,250.32	3,185.95	64.36	50.502	
12,700.00	9,800.00	9,792.90	9,778.06	53.93	29.82	-84.61	538.58	290.46	3,349.59	3,285.20	64.39	52.022	
12,800.00	9,800.00	9,791.77	9,776.92	55.04	29.82	-84.44	538.56	290.47	3,448.90	3,384.49	64.42	53.541	
12,900.00	9,800.00	9,790.63	9,775.79	56.16	29.81	-84.28	538.55	290.48	3,548.25	3,483.81	64.44	55.059	
13,000.00	9,800.00	9,789.50	9,774.66	57.30	29.81	-84.12	538.53	290.48	3,647.64	3,583.17	64.47	56.575	
13,100.00	9,800.00	9,788.38	9,773.54	58.45	29.81	-83.96	538.52	290.49	3,747.06	3,682.56	64.51	58.089	
13,200.00	9,800.00	9,787.26	9,772.42	59.61	29.80	-83.80	538.51	290.50	3,846.51	3,781.97	64.54	59.601	
13,300.00	9,800.00	9,786.14	9,771.30	60.79	29.80	-83.64	538.49	290.51	3,945.99	3,881.42	64.57	61.112	
13,400.00	9,800.00	9,785.03	9,770.19	61.98	29.80	-83.48	538.48	290.52	4,045.49	3,980.89	64.60	62.620	
13,500.00	9,800.00	9,783.93	9,769.09	63.17	29.79	-83.32	538.47	290.52	4,145.02	4,080.38	64.64	64.126	
13,600.00	9,800.00	9,782.83	9,767.99	64.38	29.79	-83.16	538.46	290.53	4,244.57	4,179.89	64.67	65.630	
13,700.00	9,800.00	9,781.73	9,766.89	65.60	29.79	-83.01	538.44	290.54	4,344.13	4,279.42	64.71	67.132	
13,800.00	9,800.00	9,780.64	9,765.80	66.82	29.78	-82.85	538.43	290.55	4,443.72	4,378.97	64.75	68.631	
13,900.00	9,800.00	9,779.55	9,764.71	68.06	29.78	-82.70	538.42	290.55	4,543.33	4,478.54	64.79	70.128	
14,000.00	9,800.00	9,778.46	9,763.62	69.30	29.78	-82.54	538.40	290.56	4,642.95	4,578.12	64.83	71.623	
14,100.00	9,800.00	9,777.38	9,762.54	70.55	29.77	-82.39	538.39	290.57	4,742.59	4,677.72	64.87	73.114	
14,200.00	9,800.00	9,776.31	9,761.47	71.80	29.77	-82.24	538.38	290.57	4,842.24	4,777.33	64.91	74.604	
14,300.00	9,800.00	9,775.24	9,760.40	73.07	29.77	-82.08	538.37	290.58	4,941.91	4,876.96	64.95	76.090	
14,400.00	9,800.00	9,774.17	9,759.33	74.34	29.76	-81.93	538.35	290.59	5,041.58	4,976.59	64.99	77.574	
14,500.00	9,800.00	9,773.11	9,758.27	75.61	29.76	-81.78	538.34	290.60	5,141.28	5,076.24	65.03	79.054	
14,600.00	9,800.00	9,772.05	9,757.21	76.89	29.76	-81.63	538.33	290.60	5,240.98	5,175.90	65.08	80.532	
14,700.00	9,800.00	9,770.99	9,756.15	78.18	29.75	-81.48	538.32	290.61	5,340.69	5,275.57	65.12	82.007	
14,800.00	9,800.00	9,769.94	9,755.10	79.47	29.75	-81.33	538.31	290.62	5,440.42	5,375.25	65.17	83.479	
14,900.00	9,800.00	9,768.90	9,754.06	80.77	29.75	-81.19	538.29	290.62	5,540.15	5,474.93	65.22	84.947	
15,000.00	9,800.00	9,767.86	9,753.02	82.07	29.75	-81.04	538.28	290.63	5,639.89	5,574.63	65.27	86.413	
15,100.00	9,800.00	9,766.82	9,751.98	83.38	29.74	-80.89	538.27	290.64	5,739.64	5,674.33	65.32	87.875	
15,200.00	9,800.00	9,765.78	9,750.94	84.69	29.74	-80.75	538.26	290.64	5,839.41	5,774.04	65.37	89.334	
15,300.00	9,800.00	9,764.75	9,749.91	86.00	29.74	-80.60	538.25	290.65	5,939.17	5,873.76	65.42	90.790	
15,400.00	9,800.00	9,763.73	9,748.89	87.32	29.73	-80.46	538.23	290.66	6,038.95	5,973.48	65.47	92.242	
15,500.00	9,800.00	9,762.71	9,747.87	88.64	29.73	-80.31	538.22	290.66	6,138.73	6,073.21	65.52	93.691	
15,600.00	9,800.00	9,761.69	9,746.85	89.97	29.73	-80.17	538.21	290.67	6,238.52	6,172.95	65.57	95.136	
15,700.00	9,800.00	9,760.67	9,745.83	91.30	29.72	-80.03	538.20	290.67	6,338.32	6,272.69	65.63	96.578	
15,800.00	9,800.00	9,759.65	9,744.81	92.63	29.70	-79.89	538.19	290.72	6,438.12	6,372.45	65.67	98.034	
15,900.00	9,800.00	9,758.63	9,743.79	93.97	29.70	-79.75	538.18	290.72	6,537.93	6,472.20	65.73	99.466	
16,000.00	9,800.00	9,757.61	9,742.77	95.31	29.70	-79.61	538.17	290.72	6,637.74	6,571.95	65.79	100.894	
16,100.00	9,800.00	9,756.59	9,741.75	96.65	29.70	-79.47	538.16	290.72	6,737.56	6,671.71	65.85	102.319	
16,200.00	9,800.00	9,755.57	9,740.73	97.99	29.70	-79.33	538.15	290.72	6,837.38	6,771.47	65.91	103.740	
16,300.00	9,800.00	9,754.55	9,739.71	99.34	29.70	-79.19	538.14	290.72	6,937.21	6,871.24	65.97	105.157	
16,400.00	9,800.00	9,753.53	9,738.69	100.69	29.70	-79.05	538.13	290.72	7,037.04	6,971.01	66.03	106.570	
16,500.00	9,800.00	9,752.51	9,737.67	102.04	29.70	-78.91	538.12	290.72	7,136.88	7,070.79	66.09	107.980	
16,600.00	9,800.00	9,751.49	9,736.65	103.40	29.70	-78.77	538.11	290.72	7,236.72	7,170.57	66.16	109.385	
16,700.00	9,800.00	9,750.47	9,735.63	104.75	29.70	-78.63	538.10	290.72	7,336.57	7,270.35	66.22	110.786	
16,800.00	9,800.00	9,749.45	9,734.61	106.11	29.70	-78.49	538.09	290.72	7,436.42	7,370.13	66.29	112.184	
16,900.00	9,800.00	9,748.43	9,733.59	107.47	29.69	-78.35	538.08	290.75	7,536.28	7,469.93	66.35	113.588	
17,000.00	9,800.00	9,747.41	9,732.57	108.84	29.69	-78.21	538.07	290.75	7,636.13	7,569.72	66.41	114.979	
17,100.00	9,800.00	9,746.39	9,731.55	110.20	29.68	-78.07	538.06	290.76	7,735.99	7,669.52	66.48	116.367	
17,200.00	9,800.00	9,745.37	9,730.53	111.57	29.68	-77.93	538.05	290.76	7,835.86	7,769.31	66.55	117.750	
17,300.00	9,800.00	9,744.35	9,729.51	112.94	29.68	-77.79	538.04	290.77	7,935.73	7,869.11	66.61	119.130	
17,328.76	9,800.00	9,744.27	9,729.43	113.33	29.68	-77.75	538.02	290.77	7,964.45	7,897.81	66.63	119.526	

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



Aim Directional Services, LLC

Anticollision Report

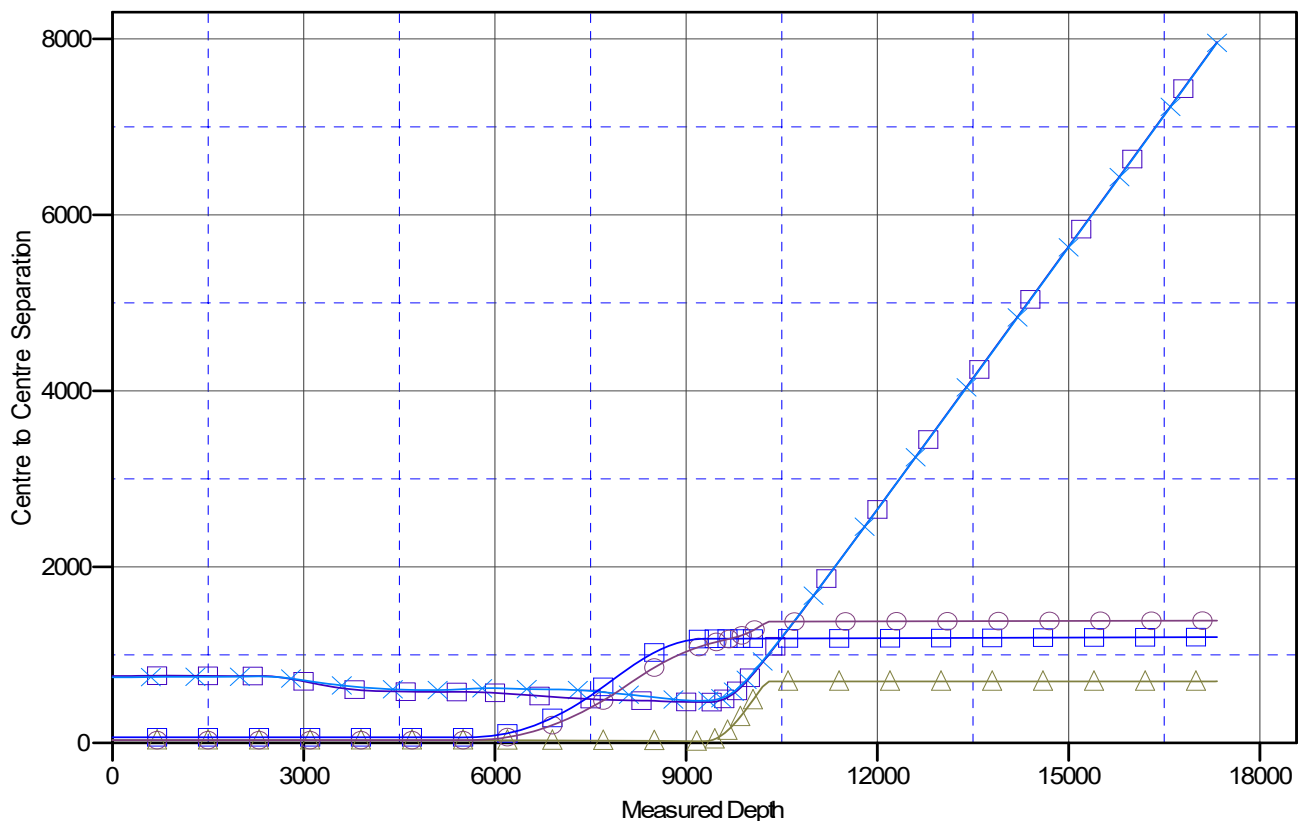


Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	Survey Calculation Method:	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

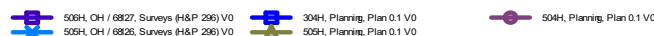
Reference Depths are relative to Well @ 3499.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 305H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND





Aim Directional Services, LLC

Anticollision Report



Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well 305H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3499.00usft
Reference Site:	Golden Tee 31 Fed Com 305H	MD Reference:	Well @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	305H	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

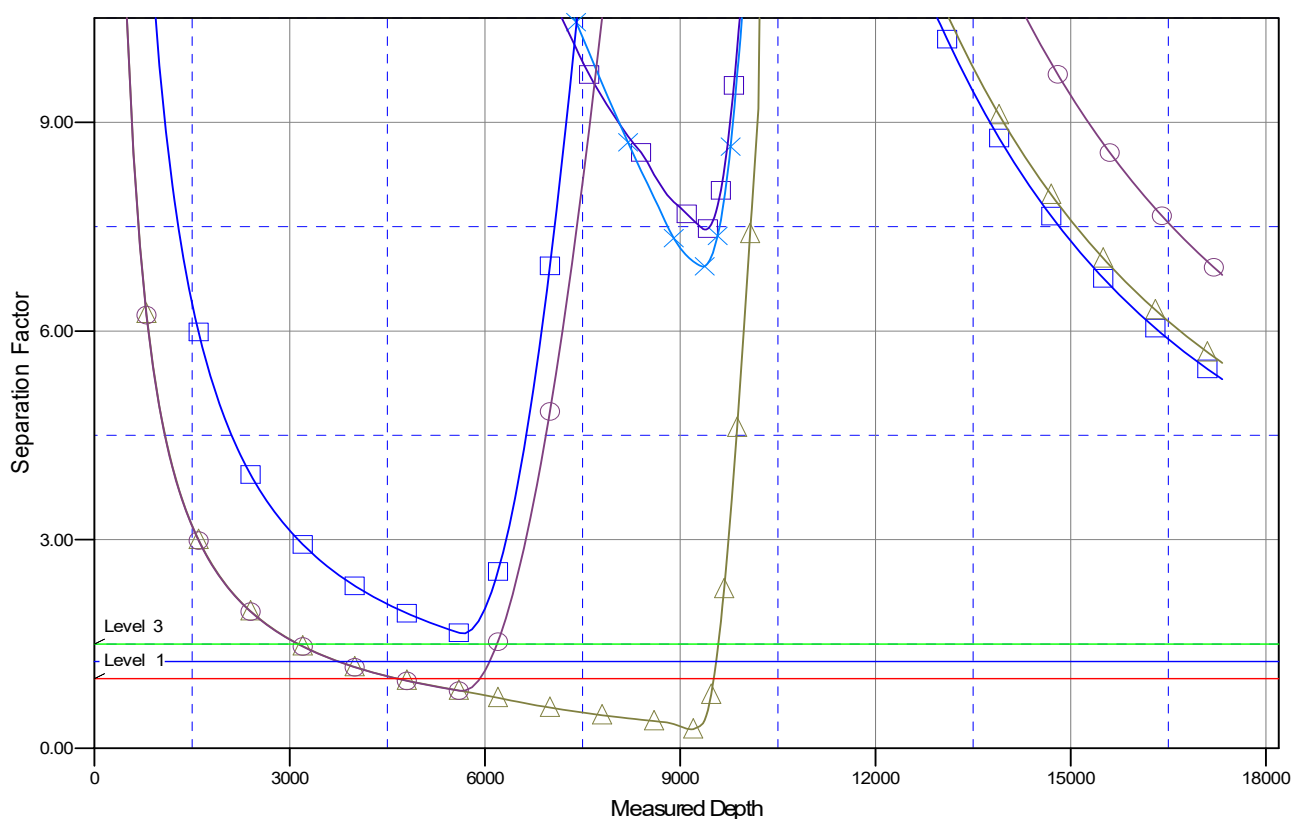
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 305H

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

Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND





Golden Tee 31 Fed Com 305H
Lea Co., NM (NAD 83)
Job No. WT-22-***
Plan 0.1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5620.00	0.00	0.00	5620.00	0.00	0.00	0.00	0.00	0.00	Build: 1°/100
3	6197.86	5.78	341.01	6196.88	27.53	-9.47	1.000	341.01	-27.62	Hold: 5.78° Inc, 341.01° Azm
4	8759.66	5.78	341.01	8745.66	271.43	-93.40	0.000	0.00	-272.28	Drop: 1°/100'
5	9337.52	0.00	0.00	9322.54	298.96	-102.87	1.000	180.00	-299.90	KOP: 12°/100' @ 9337.52' MD
6	10087.52	90.00	179.47	9800.00	-178.48	-98.49	12.000	179.47	177.57	LP: 10087.52' MD, 90.00° Inc, 179.47° Azm
7	17328.76	90.00	179.47	9800.00	-7419.42	-32.06	0.000	0.00	7418.81	PBHL @ 17328.76' MD/9800.00' TVD

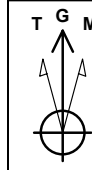
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
305H FTP	9800.00	298.96	-102.87	494184.89	828557.03	32° 21' 18.558 N	103° 24' 11.511 W
305H LTP/PBHL	9800.00	-7419.42	-32.06	486466.51	828627.84	32° 20' 2.181 N	103° 24' 11.467 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



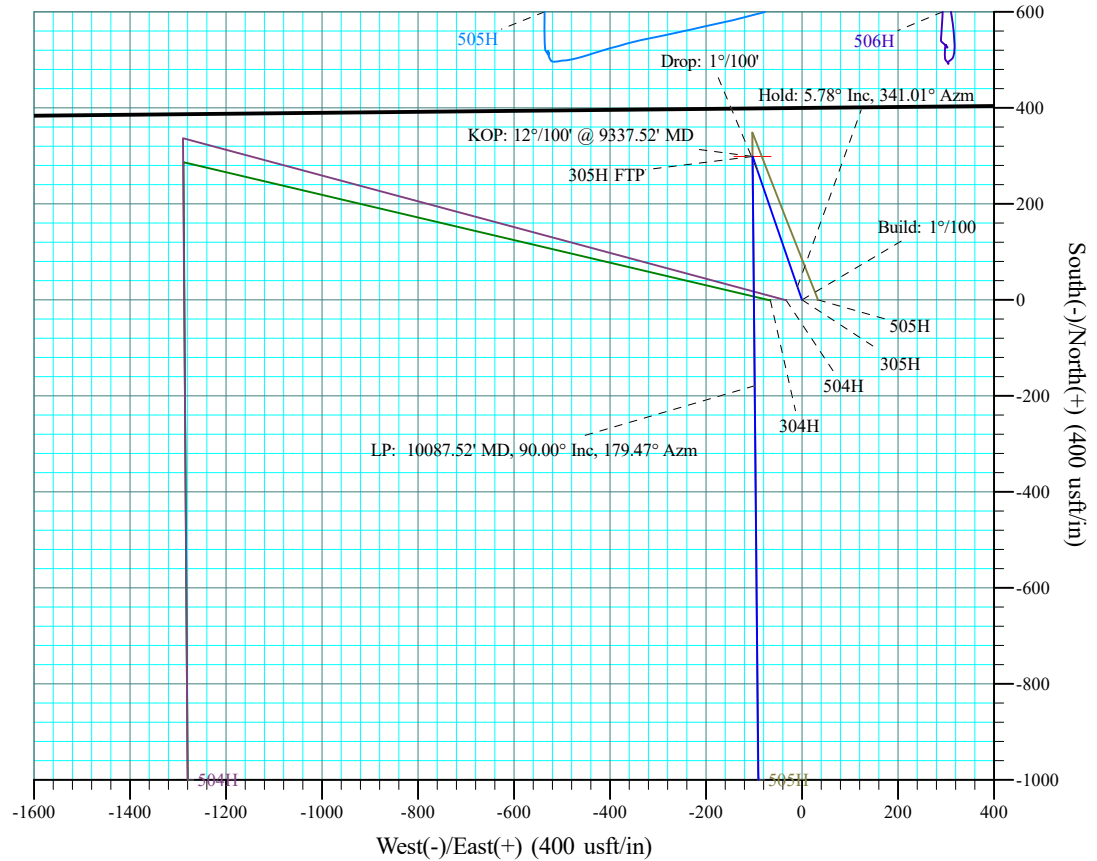
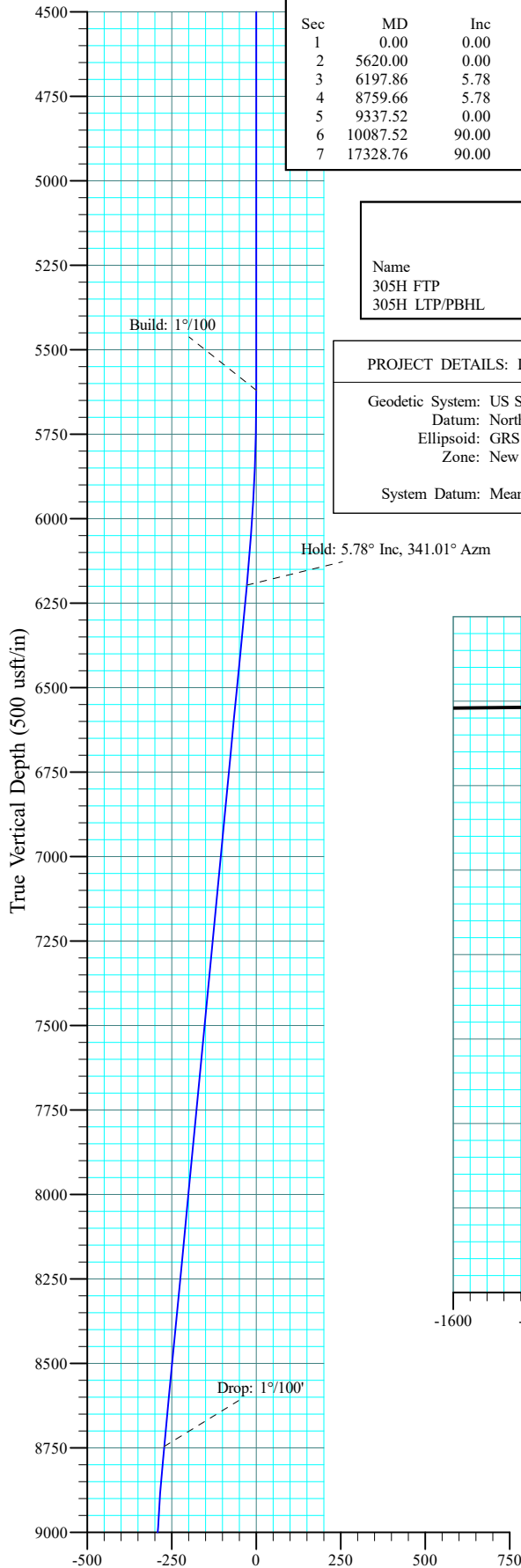
Azimuths to Grid North
 True North: -0.50°
 Magnetic North: 5.90°

Magnetic Field
 Strength: 47715.7nT
 Dip Angle: 59.97°
 Date: 4/1/2022
 Model: MVHD

SITE DETAILS: Golden Tee 31 Fed Com 305H

Site Centre Northing: 493885.93
 Easting: 828659.90

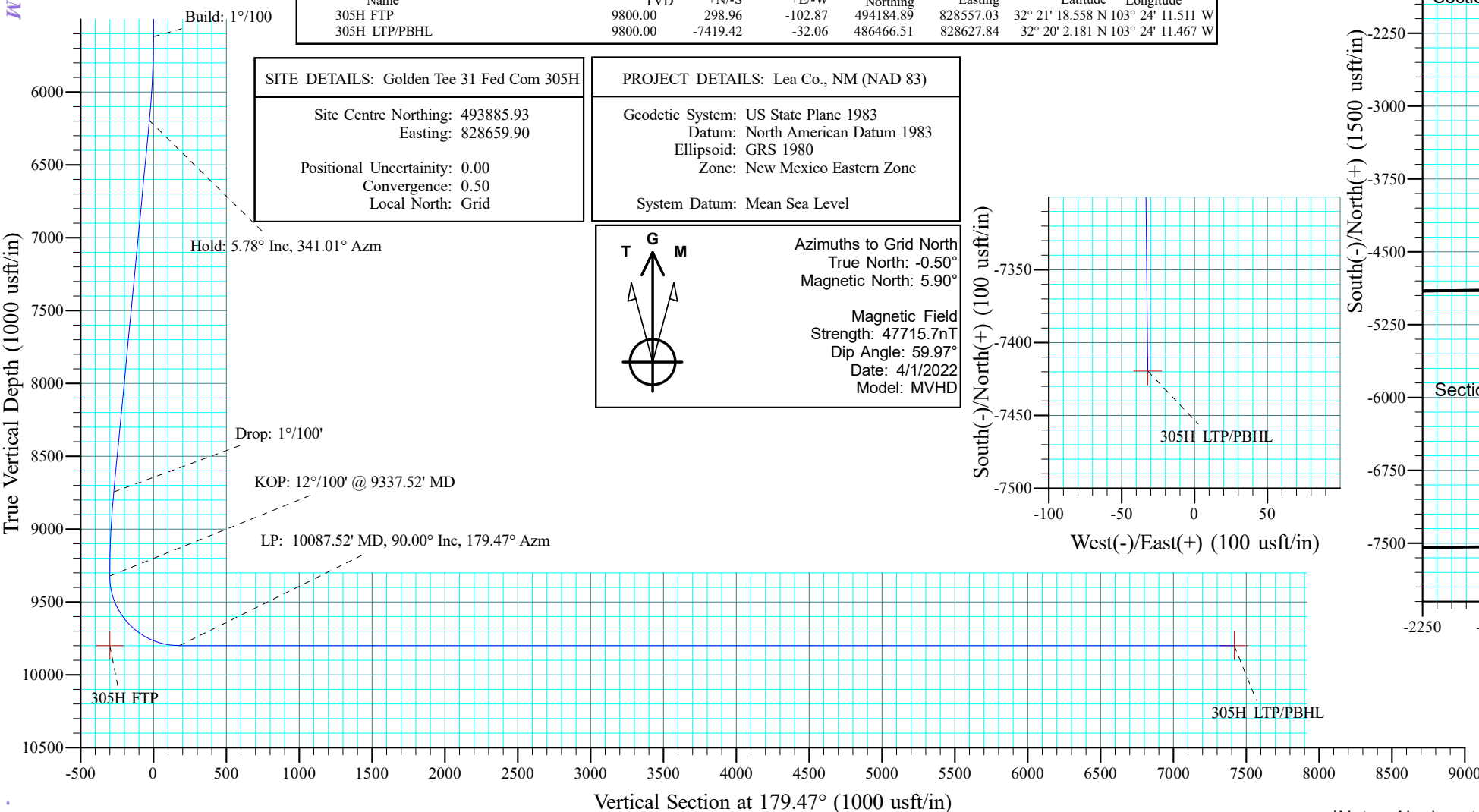
Positional Uncertainty: 0.00
 Convergence: 0.50
 Local North: Grid



Released for Imaging: 5/10/2022 10:02:01 AM

Received by OCD: 5/6/2022 11:09:17 AM

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00		
2	5620.00	0.00	0.00	5620.00	0.00	0.00	0.000	0.00	0.00		Build: 1°/100
3	6197.86	5.78	341.01	6196.88	27.53	-9.47	1.000	341.01	-27.62		Hold: 5.78° Inc, 341.01° Azm
4	8759.66	5.78	341.01	8745.66	271.43	-93.40	0.000	0.00	-272.28		Drop: 1°/100'
5	9337.52	0.00	0.00	9322.54	298.96	-102.87	1.000	180.00	-299.90		KOP: 12°/100' @ 9337.52' MD
6	10087.52	90.00	179.47	9800.00	-178.48	-98.49	12.000	179.47	177.57		LP: 10087.52' MD, 90.00° Inc, 179.47° Azm
7	17328.76	90.00	179.47	9800.00	-7419.42	-32.06	0.000	0.00	7418.81	305H LTP/PBHL	PBHL @ 17328.76' MD/9800.00' TVD



DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
305H FTP	9800.00	298.96	-102.87	494184.89	828557.03	32° 21' 18.558 N 103° 24' 11.511 W	
305H LTP/PBHL	9800.00	-7419.42	-32.06	486466.51	828627.84	32° 20' 2.181 N 103° 24' 11.467 W	

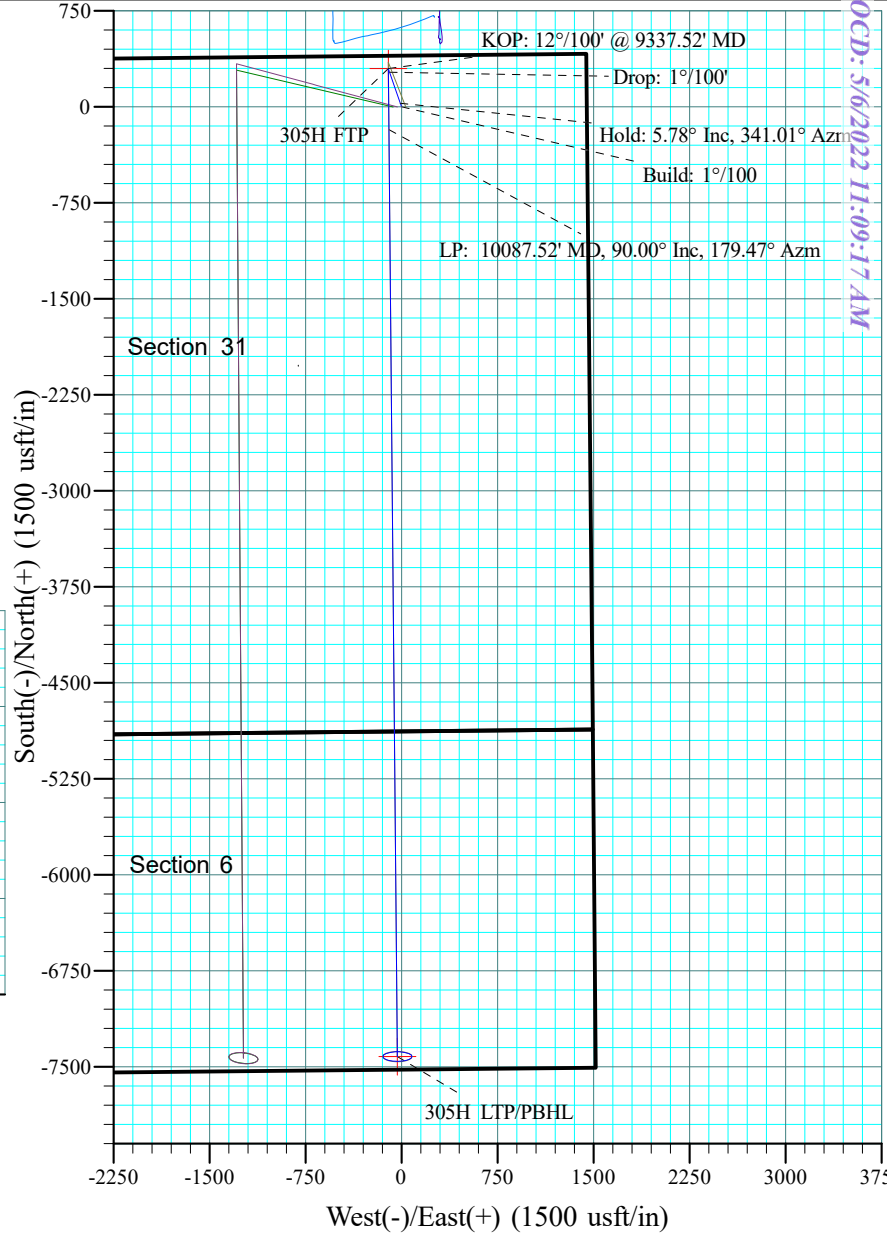
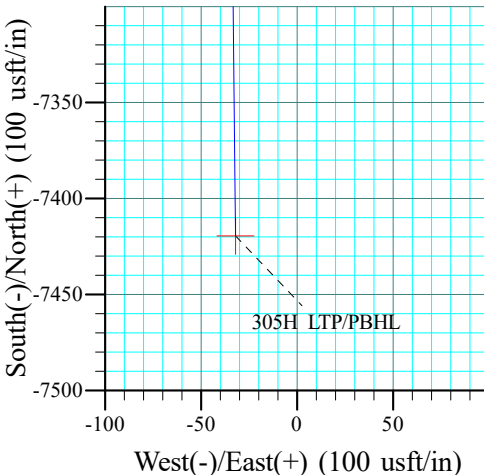
SITE DETAILS: Golden Tee 31 Fed Com 305H
Site Centre Northing: 493885.93 Easting: 828659.90
Positional Uncertainty: 0.00 Convergence: 0.50 Local North: Grid

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: 47715.7nT
Dip Angle: 59.97°
Date: 4/1/2022
Model: MVHD



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Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 305H
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 305H	North Reference:	Grid
Well:	305H	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 305H		
Site Position:		Northing:	493,885.93 usft
From:	Map	Easting:	828,659.90 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 21' 15.591 N
		Longitude:	103° 24' 10.342 W
		Grid Convergence:	0.50 °

Well	305H		
Well Position	+N/-S	0.00 usft	Northing: 493,885.93 usft
	+E/-W	0.00 usft	Easting: 828,659.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32° 21' 15.591 N
			Longitude: 103° 24' 10.342 W
			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	47,715.656

Design	Plan 0.1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.47

Plan Survey Tool Program	Date	2/9/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,328.76	Plan 0.1 (Planning)	B001Mb_MWD+HRGM
				OWSG MWD + HRGM

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	
5,620.00	0.00	0.00	5,620.00	0.00	0.00	0.000	0.000	0.000	0.00	
6,197.86	5.78	341.01	6,196.88	27.53	-9.47	1.000	1.000	0.000	341.01	
8,759.66	5.78	341.01	8,745.66	271.43	-93.40	0.000	0.000	0.000	0.00	
9,337.52	0.00	0.00	9,322.54	298.96	-102.87	1.000	-1.000	0.000	180.00	
10,087.52	90.00	179.47	9,800.00	-178.48	-98.49	12.000	12.000	23.930	179.47	
17,328.76	90.00	179.47	9,800.00	-7,419.42	-32.06	0.000	0.000	0.000	0.00	305H LTP/PBHL



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 305H
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 305H	North Reference:	Grid
Well:	305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.000	0.000	0.000
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.000	0.000	0.000
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.000	0.000	0.000
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.000	0.000	0.000
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.000	0.000
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.000	0.000	0.000
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.000	0.000	0.000
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.000	0.000	0.000
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.000	0.000	0.000
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.000	0.000	0.000
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.000	0.000	0.000
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.000	0.000	0.000
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.000	0.000	0.000
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.000	0.000	0.000
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.000	0.000	0.000
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.000	0.000	0.000
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.000	0.000	0.000
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.000	0.000	0.000
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.000	0.000	0.000
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.000	0.000	0.000
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.000	0.000	0.000
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.000	0.000	0.000
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.000	0.000	0.000
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.000	0.000	0.000
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.000	0.000	0.000
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.000	0.000	0.000
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.000	0.000	0.000
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.000	0.000	0.000
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.000	0.000	0.000
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.000	0.000	0.000
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.000	0.000	0.000
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.000	0.000	0.000
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.000	0.000	0.000
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.000	0.000	0.000
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.000	0.000	0.000
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.000	0.000	0.000
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.000	0.000	0.000
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.000	0.000	0.000
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.000	0.000	0.000
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.000	0.000	0.000
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.000	0.000	0.000
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.000	0.000	0.000
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.000	0.000	0.000
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.000	0.000	0.000
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.000	0.000	0.000
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.000	0.000	0.000
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.000	0.000	0.000
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.000	0.000	0.000
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.000	0.000	0.000
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.000	0.000	0.000
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.000	0.000	0.000
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.000	0.000	0.000
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.000	0.000	0.000



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 305H
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 305H	North Reference:	Grid
Well:	305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.000	0.000	0.000
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.000	0.000	0.000
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.000	0.000	0.000
5,620.00	0.00	0.00	5,620.00	0.00	0.00	0.00	0.000	0.000	0.000
Build: 1°/100									
5,700.00	0.80	341.01	5,700.00	0.53	-0.18	-0.53	1.000	1.000	0.000
5,800.00	1.80	341.01	5,799.97	2.67	-0.92	-2.68	1.000	1.000	0.000
5,900.00	2.80	341.01	5,899.89	6.47	-2.23	-6.49	1.000	1.000	0.000
6,000.00	3.80	341.01	5,999.72	11.91	-4.10	-11.95	1.000	1.000	0.000
6,100.00	4.80	341.01	6,099.44	19.00	-6.54	-19.06	1.000	1.000	0.000
6,197.86	5.78	341.01	6,196.88	27.53	-9.47	-27.62	1.000	1.000	0.000
Hold: 5.78° Inc, 341.01° Azm									
6,200.00	5.78	341.01	6,199.01	27.74	-9.54	-27.82	0.000	0.000	0.000
6,300.00	5.78	341.01	6,298.50	37.26	-12.82	-37.37	0.000	0.000	0.000
6,400.00	5.78	341.01	6,397.99	46.78	-16.10	-46.92	0.000	0.000	0.000
6,500.00	5.78	341.01	6,497.49	56.30	-19.37	-56.47	0.000	0.000	0.000
6,600.00	5.78	341.01	6,596.98	65.82	-22.65	-66.02	0.000	0.000	0.000
6,700.00	5.78	341.01	6,696.47	75.34	-25.92	-75.57	0.000	0.000	0.000
6,800.00	5.78	341.01	6,795.96	84.86	-29.20	-85.12	0.000	0.000	0.000
6,900.00	5.78	341.01	6,895.45	94.38	-32.48	-94.68	0.000	0.000	0.000
7,000.00	5.78	341.01	6,994.94	103.90	-35.75	-104.23	0.000	0.000	0.000
7,100.00	5.78	341.01	7,094.44	113.42	-39.03	-113.78	0.000	0.000	0.000
7,200.00	5.78	341.01	7,193.93	122.94	-42.30	-123.33	0.000	0.000	0.000
7,300.00	5.78	341.01	7,293.42	132.46	-45.58	-132.88	0.000	0.000	0.000
7,400.00	5.78	341.01	7,392.91	141.98	-48.85	-142.43	0.000	0.000	0.000
7,500.00	5.78	341.01	7,492.40	151.50	-52.13	-151.98	0.000	0.000	0.000
7,600.00	5.78	341.01	7,591.90	161.02	-55.41	-161.53	0.000	0.000	0.000
7,700.00	5.78	341.01	7,691.39	170.54	-58.68	-171.08	0.000	0.000	0.000
7,800.00	5.78	341.01	7,790.88	180.06	-61.96	-180.63	0.000	0.000	0.000
7,900.00	5.78	341.01	7,890.37	189.58	-65.23	-190.18	0.000	0.000	0.000
8,000.00	5.78	341.01	7,989.86	199.11	-68.51	-199.73	0.000	0.000	0.000
8,100.00	5.78	341.01	8,089.36	208.63	-71.79	-209.28	0.000	0.000	0.000
8,200.00	5.78	341.01	8,188.85	218.15	-75.06	-218.83	0.000	0.000	0.000
8,300.00	5.78	341.01	8,288.34	227.67	-78.34	-228.38	0.000	0.000	0.000
8,400.00	5.78	341.01	8,387.83	237.19	-81.61	-237.93	0.000	0.000	0.000
8,500.00	5.78	341.01	8,487.32	246.71	-84.89	-247.48	0.000	0.000	0.000
8,600.00	5.78	341.01	8,586.81	256.23	-88.17	-257.03	0.000	0.000	0.000
8,700.00	5.78	341.01	8,686.31	265.75	-91.44	-266.58	0.000	0.000	0.000
8,759.66	5.78	341.01	8,745.66	271.43	-93.40	-272.28	0.000	0.000	0.000
Drop: 1°/100'									
8,800.00	5.38	341.01	8,785.81	275.14	-94.67	-276.00	1.000	-1.000	0.000
8,900.00	4.38	341.01	8,885.45	283.17	-97.44	-284.06	1.000	-1.000	0.000
9,000.00	3.38	341.01	8,985.22	289.56	-99.64	-290.47	1.000	-1.000	0.000
9,100.00	2.38	341.01	9,085.09	294.31	-101.27	-295.23	1.000	-1.000	0.000
9,200.00	1.38	341.01	9,185.04	297.40	-102.33	-298.33	1.000	-1.000	0.000
9,300.00	0.38	341.01	9,285.02	298.84	-102.83	-299.78	1.000	-1.000	0.000
9,337.52	0.00	0.00	9,322.54	298.96	-102.87	-299.90	1.000	-1.000	0.000
KOP: 12°/100' @ 9337.52' MD									
9,350.00	1.50	179.47	9,335.02	298.80	-102.87	-299.74	12.000	12.000	0.000
9,375.00	4.50	179.47	9,359.99	297.49	-102.86	-298.43	12.000	12.000	0.000
9,400.00	7.50	179.47	9,384.85	294.88	-102.83	-295.82	12.000	12.000	0.000
9,425.00	10.50	179.47	9,409.54	290.97	-102.80	-291.91	12.000	12.000	0.000
9,450.00	13.50	179.47	9,433.99	285.77	-102.75	-286.71	12.000	12.000	0.000



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 305H
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 305H	North Reference:	Grid
Well:	305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,475.00	16.50	179.47	9,458.13	279.30	-102.69	-280.24	12.000	12.000	0.000
9,500.00	19.50	179.47	9,481.91	271.58	-102.62	-272.52	12.000	12.000	0.000
9,525.00	22.50	179.47	9,505.24	262.62	-102.54	-263.56	12.000	12.000	0.000
9,550.00	25.50	179.47	9,528.08	252.46	-102.44	-253.39	12.000	12.000	0.000
9,575.00	28.50	179.47	9,550.35	241.11	-102.34	-242.05	12.000	12.000	0.000
9,600.00	31.50	179.47	9,572.00	228.61	-102.22	-229.55	12.000	12.000	0.000
9,625.00	34.50	179.47	9,592.97	215.00	-102.10	-215.93	12.000	12.000	0.000
9,650.00	37.50	179.47	9,613.19	200.31	-101.96	-201.24	12.000	12.000	0.000
9,675.00	40.50	179.47	9,632.62	184.58	-101.82	-185.51	12.000	12.000	0.000
9,700.00	43.50	179.47	9,651.19	167.85	-101.67	-168.79	12.000	12.000	0.000
9,725.00	46.50	179.47	9,668.87	150.18	-101.51	-151.11	12.000	12.000	0.000
9,750.00	49.50	179.47	9,685.60	131.60	-101.33	-132.53	12.000	12.000	0.000
9,775.00	52.50	179.47	9,701.33	112.18	-101.16	-113.11	12.000	12.000	0.000
9,800.00	55.50	179.47	9,716.02	91.96	-100.97	-92.89	12.000	12.000	0.000
9,825.00	58.50	179.47	9,729.64	70.99	-100.78	-71.92	12.000	12.000	0.000
9,850.00	61.50	179.47	9,742.14	49.35	-100.58	-50.27	12.000	12.000	0.000
9,875.00	64.50	179.47	9,753.49	27.07	-100.38	-28.00	12.000	12.000	0.000
9,900.00	67.50	179.47	9,763.65	4.24	-100.17	-5.17	12.000	12.000	0.000
9,925.00	70.50	179.47	9,772.61	-19.10	-99.95	18.17	12.000	12.000	0.000
9,950.00	73.50	179.47	9,780.34	-42.87	-99.73	41.94	12.000	12.000	0.000
9,975.00	76.50	179.47	9,786.81	-67.01	-99.51	66.09	12.000	12.000	0.000
10,000.00	79.50	179.47	9,792.01	-91.46	-99.29	90.54	12.000	12.000	0.000
10,025.00	82.50	179.47	9,795.92	-116.15	-99.06	115.23	12.000	12.000	0.000
10,050.00	85.50	179.47	9,798.53	-141.01	-98.83	140.09	12.000	12.000	0.000
10,075.00	88.50	179.47	9,799.84	-165.97	-98.60	165.05	12.000	12.000	0.000
10,087.52	90.00	179.47	9,800.00	-178.48	-98.49	177.57	12.000	12.000	0.000
LP: 10087.52' MD, 90.00° Inc, 179.47° Azm									
10,100.00	90.00	179.47	9,800.00	-190.97	-98.38	190.05	0.000	0.000	0.000
10,200.00	90.00	179.47	9,800.00	-290.96	-97.46	290.05	0.000	0.000	0.000
10,300.00	90.00	179.47	9,800.00	-390.96	-96.54	390.05	0.000	0.000	0.000
10,400.00	90.00	179.47	9,800.00	-490.96	-95.62	490.05	0.000	0.000	0.000
10,500.00	90.00	179.47	9,800.00	-590.95	-94.71	590.05	0.000	0.000	0.000
10,600.00	90.00	179.47	9,800.00	-690.95	-93.79	690.05	0.000	0.000	0.000
10,700.00	90.00	179.47	9,800.00	-790.94	-92.87	790.05	0.000	0.000	0.000
10,800.00	90.00	179.47	9,800.00	-890.94	-91.95	890.05	0.000	0.000	0.000
10,900.00	90.00	179.47	9,800.00	-990.93	-91.04	990.05	0.000	0.000	0.000
11,000.00	90.00	179.47	9,800.00	-1,090.93	-90.12	1,090.05	0.000	0.000	0.000
11,100.00	90.00	179.47	9,800.00	-1,190.93	-89.20	1,190.05	0.000	0.000	0.000
11,200.00	90.00	179.47	9,800.00	-1,290.92	-88.28	1,290.05	0.000	0.000	0.000
11,300.00	90.00	179.47	9,800.00	-1,390.92	-87.37	1,390.05	0.000	0.000	0.000
11,400.00	90.00	179.47	9,800.00	-1,490.91	-86.45	1,490.05	0.000	0.000	0.000
11,500.00	90.00	179.47	9,800.00	-1,590.91	-85.53	1,590.05	0.000	0.000	0.000
11,600.00	90.00	179.47	9,800.00	-1,690.91	-84.61	1,690.05	0.000	0.000	0.000
11,700.00	90.00	179.47	9,800.00	-1,790.90	-83.70	1,790.05	0.000	0.000	0.000
11,800.00	90.00	179.47	9,800.00	-1,890.90	-82.78	1,890.05	0.000	0.000	0.000
11,900.00	90.00	179.47	9,800.00	-1,990.89	-81.86	1,990.05	0.000	0.000	0.000
12,000.00	90.00	179.47	9,800.00	-2,090.89	-80.95	2,090.05	0.000	0.000	0.000
12,100.00	90.00	179.47	9,800.00	-2,190.88	-80.03	2,190.05	0.000	0.000	0.000
12,200.00	90.00	179.47	9,800.00	-2,290.88	-79.11	2,290.05	0.000	0.000	0.000
12,300.00	90.00	179.47	9,800.00	-2,390.88	-78.19	2,390.05	0.000	0.000	0.000
12,400.00	90.00	179.47	9,800.00	-2,490.87	-77.28	2,490.05	0.000	0.000	0.000
12,500.00	90.00	179.47	9,800.00	-2,590.87	-76.36	2,590.05	0.000	0.000	0.000
12,600.00	90.00	179.47	9,800.00	-2,690.86	-75.44	2,690.05	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 305H
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 305H	North Reference:	Grid
Well:	305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Planning		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,700.00	90.00	179.47	9,800.00	-2,790.86	-74.52	2,790.05	0.000	0.000	0.000
12,800.00	90.00	179.47	9,800.00	-2,890.85	-73.61	2,890.05	0.000	0.000	0.000
12,900.00	90.00	179.47	9,800.00	-2,990.85	-72.69	2,990.05	0.000	0.000	0.000
13,000.00	90.00	179.47	9,800.00	-3,090.85	-71.77	3,090.05	0.000	0.000	0.000
13,100.00	90.00	179.47	9,800.00	-3,190.84	-70.85	3,190.05	0.000	0.000	0.000
13,200.00	90.00	179.47	9,800.00	-3,290.84	-69.94	3,290.05	0.000	0.000	0.000
13,300.00	90.00	179.47	9,800.00	-3,390.83	-69.02	3,390.05	0.000	0.000	0.000
13,400.00	90.00	179.47	9,800.00	-3,490.83	-68.10	3,490.05	0.000	0.000	0.000
13,500.00	90.00	179.47	9,800.00	-3,590.83	-67.18	3,590.05	0.000	0.000	0.000
13,600.00	90.00	179.47	9,800.00	-3,690.82	-66.27	3,690.05	0.000	0.000	0.000
13,700.00	90.00	179.47	9,800.00	-3,790.82	-65.35	3,790.05	0.000	0.000	0.000
13,800.00	90.00	179.47	9,800.00	-3,890.81	-64.43	3,890.05	0.000	0.000	0.000
13,900.00	90.00	179.47	9,800.00	-3,990.81	-63.51	3,990.05	0.000	0.000	0.000
14,000.00	90.00	179.47	9,800.00	-4,090.80	-62.60	4,090.05	0.000	0.000	0.000
14,100.00	90.00	179.47	9,800.00	-4,190.80	-61.68	4,190.05	0.000	0.000	0.000
14,200.00	90.00	179.47	9,800.00	-4,290.80	-60.76	4,290.05	0.000	0.000	0.000
14,300.00	90.00	179.47	9,800.00	-4,390.79	-59.85	4,390.05	0.000	0.000	0.000
14,400.00	90.00	179.47	9,800.00	-4,490.79	-58.93	4,490.05	0.000	0.000	0.000
14,500.00	90.00	179.47	9,800.00	-4,590.78	-58.01	4,590.05	0.000	0.000	0.000
14,600.00	90.00	179.47	9,800.00	-4,690.78	-57.09	4,690.05	0.000	0.000	0.000
14,700.00	90.00	179.47	9,800.00	-4,790.77	-56.18	4,790.05	0.000	0.000	0.000
14,800.00	90.00	179.47	9,800.00	-4,890.77	-55.26	4,890.05	0.000	0.000	0.000
14,900.00	90.00	179.47	9,800.00	-4,990.77	-54.34	4,990.05	0.000	0.000	0.000
15,000.00	90.00	179.47	9,800.00	-5,090.76	-53.42	5,090.05	0.000	0.000	0.000
15,100.00	90.00	179.47	9,800.00	-5,190.76	-52.51	5,190.05	0.000	0.000	0.000
15,200.00	90.00	179.47	9,800.00	-5,290.75	-51.59	5,290.05	0.000	0.000	0.000
15,300.00	90.00	179.47	9,800.00	-5,390.75	-50.67	5,390.05	0.000	0.000	0.000
15,400.00	90.00	179.47	9,800.00	-5,490.75	-49.75	5,490.05	0.000	0.000	0.000
15,500.00	90.00	179.47	9,800.00	-5,590.74	-48.84	5,590.05	0.000	0.000	0.000
15,600.00	90.00	179.47	9,800.00	-5,690.74	-47.92	5,690.05	0.000	0.000	0.000
15,700.00	90.00	179.47	9,800.00	-5,790.73	-47.00	5,790.05	0.000	0.000	0.000
15,800.00	90.00	179.47	9,800.00	-5,890.73	-46.08	5,890.05	0.000	0.000	0.000
15,900.00	90.00	179.47	9,800.00	-5,990.72	-45.17	5,990.05	0.000	0.000	0.000
16,000.00	90.00	179.47	9,800.00	-6,090.72	-44.25	6,090.05	0.000	0.000	0.000
16,100.00	90.00	179.47	9,800.00	-6,190.72	-43.33	6,190.05	0.000	0.000	0.000
16,200.00	90.00	179.47	9,800.00	-6,290.71	-42.42	6,290.05	0.000	0.000	0.000
16,300.00	90.00	179.47	9,800.00	-6,390.71	-41.50	6,390.05	0.000	0.000	0.000
16,400.00	90.00	179.47	9,800.00	-6,490.70	-40.58	6,490.05	0.000	0.000	0.000
16,500.00	90.00	179.47	9,800.00	-6,590.70	-39.66	6,590.05	0.000	0.000	0.000
16,600.00	90.00	179.47	9,800.00	-6,690.70	-38.75	6,690.05	0.000	0.000	0.000
16,700.00	90.00	179.47	9,800.00	-6,790.69	-37.83	6,790.05	0.000	0.000	0.000
16,800.00	90.00	179.47	9,800.00	-6,890.69	-36.91	6,890.05	0.000	0.000	0.000
16,900.00	90.00	179.47	9,800.00	-6,990.68	-35.99	6,990.05	0.000	0.000	0.000
17,000.00	90.00	179.47	9,800.00	-7,090.68	-35.08	7,090.05	0.000	0.000	0.000
17,100.00	90.00	179.47	9,800.00	-7,190.67	-34.16	7,190.05	0.000	0.000	0.000
17,200.00	90.00	179.47	9,800.00	-7,290.67	-33.24	7,290.05	0.000	0.000	0.000
17,300.00	90.00	179.47	9,800.00	-7,390.67	-32.32	7,390.05	0.000	0.000	0.000
17,328.76	90.00	179.47	9,800.00	-7,419.42	-32.06	7,418.81	0.000	0.000	0.000
PBHL @ 17328.76' MD/9800.00' TVD									



Aim Directional Services, LLC

Planning Report



Database:	RTOC- EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 305H
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 305H	North Reference:	Grid
Well:	305H	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°/100
6,197.86	6,196.88	27.53	-9.47	Hold: 5.78° Inc, 341.01° Azm
8,759.66	8,745.66	271.43	-93.40	Drop: 1°/100'
9,337.52	9,322.54	298.96	-102.87	KOP: 12°/100' @ 9337.52' MD
10,087.52	9,800.00	-178.48	-98.49	LP: 10087.52' MD, 90.00° Inc, 179.47° Azm
17,328.76	9,800.00	-7,419.42	-32.06	PBHL @ 17328.76' MD/9800.00' TVD

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 104956

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 104956
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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