

Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>

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

WELL API NO.	30-015-55899
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name The Aggie	
8. Well Number	31H
9. OGRID Number	372290
10. Pool name or Wildcat	Atoka; Glorieta-Yes

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
Riley Permian Operating Company, LLC

3. Address of Operator
29 E Reno Ave, Suite 500, Oklahoma City, OK. 73104

4. Well Location
Unit Letter A : 1274 feet from the North line and 756 feet from the East line
Section 24 Township 18S Range 26E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3289 Ground Level

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	


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

Riley Permian respectfully requests a lateral change to The Aggie 31H. Please see attached documents.

Spud Date:

Rig Release Date:

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

SIGNATURE  TITLE Sr. Regulatory Specialist DATE 2/26/2026

Type or print name Alex Rizzo E-mail address: alexrizzo@rileypermian.com PHONE: 918-839-2995

For State Use Only
APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any): _____

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 <input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled	Submittal Type:
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Property Name and Well Number

THE AGGIE 31H

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-55899	Pool Code 3250	Pool Name ATOKA; GLORIETTA-YESO
Property Code 336440	Property Name THE AGGIE	
OGRID No. 372290	Operator Name RILEY PERMIAN OPERATING COMPANY LLC	Well Number 31H
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Ground Level Elevation 3289'
Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		

Surface Location

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	24	18 S	26 E		1274 FNL	756 FEL	N 32.737124°	W 104.329326°	EDDY

Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	19	18 S	27 E		836 FNL	10 FEL	N 32.738231°	W 104.309374°	EDDY

Dedicated Acres 321.4	Infill or Defining Well N/A	Defining Well API N/A	Overlapping Spacing Unit (Y/N) N	Consolidated Code F
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Order Numbers **PENDING** Well Setbacks are under Common Ownership: Yes No

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	24	18 S	26 E		1261 FNL	739 FEL	N 32.737158°	W 104.329268°	EDDY

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
1	19	18 S	27 E		836 FNL	100 FWL	N 32.738331°	W 104.326539°	EDDY

Last Take Point (LTP)


UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	19	18 S	27 E		836 FNL	100 FEL	N 32.738232°	W 104.309667°	EDDY

Unitized Area or Area of Uniform Interest PENDING HEARING ORDER	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3314'
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OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.


If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Signature:  Date: **2/26/2026**

Print Name: **Alex Rizzo**

E-mail Address: **alexrizzo@rileypermian.com**

SURVEYORS CERTIFICATION



Signature and Seal of Professional Surveyor: _____ Date: _____

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.

MITCHELL L. MCDONALD, N.M. P.L.S.

Certificate Number: **29821** Date of Survey: **FEBRUARY 8, 2026**

Note: 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.

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal
Type:

- Initial Submittal
- Amended Report
- As Drilled

Property Name and Well Number

THE AGGIE 31H

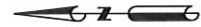
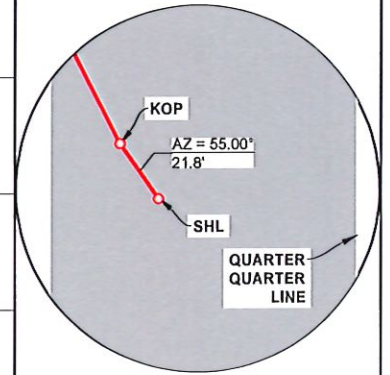
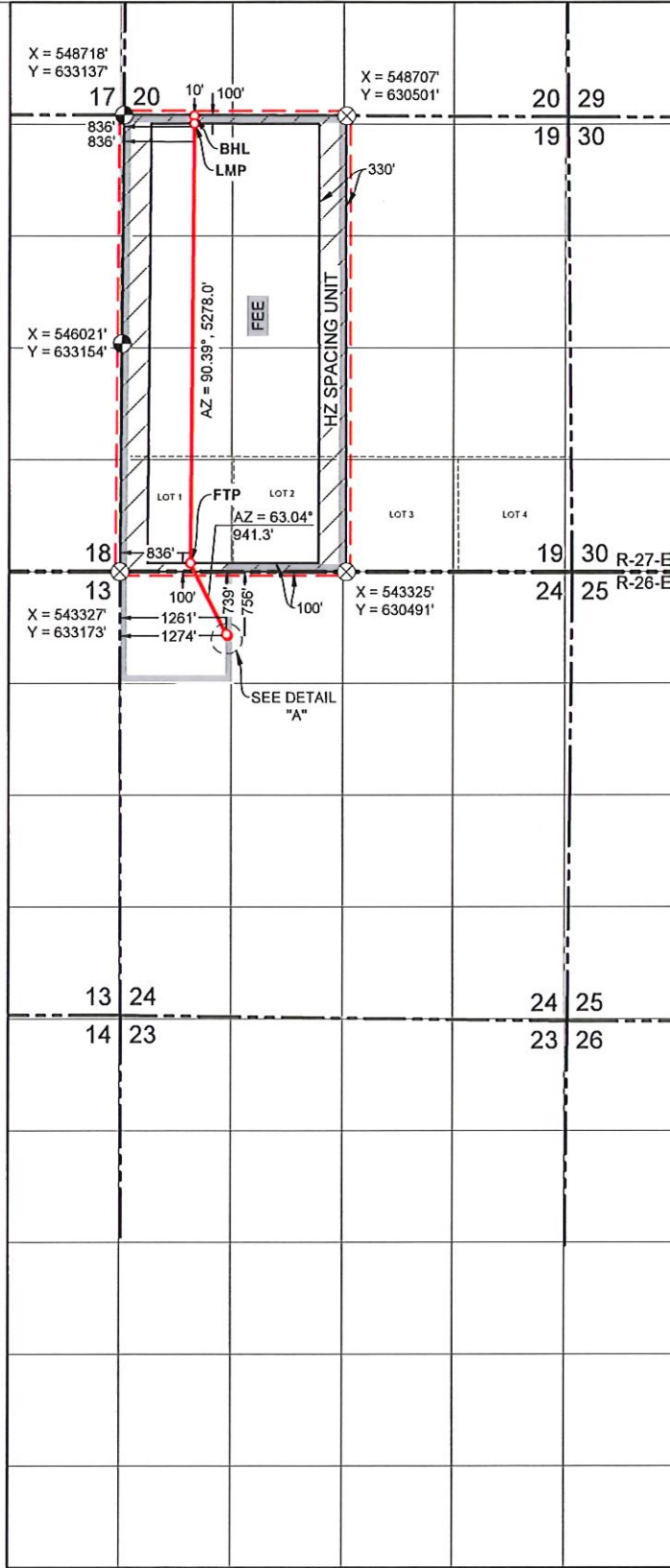
SURFACE LOCATION
NEW MEXICO EAST
NAD 1983
X=542570' Y=631897'
LAT=N32.737124°
LONG=W104.329326°
NAD 1927
X=501391' Y=631835'
LAT=N32.737009°
LONG=W104.328811°
1274' FNL 756' FEL

KOP LOCATION
NEW MEXICO EAST
NAD 1983
X=542588' Y=631910'
LAT=N32.737158°
LONG=W104.329268°
NAD 1927
X=501409' Y=631848'
LAT=N32.737044°
LONG=W104.328753°
1261' FNL 739' FEL

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=543427' Y=632337'
LAT=N32.738331°
LONG=W104.326539°
NAD 1927
X=502248' Y=632274'
LAT=N32.738217°
LONG=W104.326024°
836' FNL 100' FWL

LOWER MOST PERF.
NEW MEXICO EAST
NAD 1983
X=548614' Y=632301'
LAT=N32.738232°
LONG=W104.309667°
NAD 1927
X=507435' Y=632239'
LAT=N32.738117°
LONG=W104.309152°
836' FNL 100' FEL

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=548704' Y=632301'
LAT=N32.738231°
LONG=W104.309374°
NAD 1927
X=507525' Y=632238'
LAT=N32.738116°
LONG=W104.308859°
836' FNL 100' FEL



Note: Bearings, coordinates, and distances (grid) shown hereon are based on the New Mexico State Plane Coordinate System, East Zone, NAD 83-2011 (EPOCH 2010) framework, as derived by OPUS Solution. The elevations shown hereon are based on NAVD 88.



Riley Permian

Eddy County, New Mexico (NAD83)

The Aggie

The Aggie 31H

Wellbore #1

Design #2

Anticollision Report

24 February, 2026





Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Reference	Design #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 2/24/2026			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	9,001.40	Design #2 (Wellbore #1)	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
The Aggie						
The Aggie 1H - Wellbore #1 - Design #1	1,466.33	1,467.33	20.01	10.60	2.125	CC
The Aggie 1H - Wellbore #1 - Design #1	1,500.00	1,500.99	20.01	10.48	2.099	ES, SF
The Aggie 2H - Wellbore #1 - Design #1	2,347.00	2,348.00	19.65	7.49	1.615	CC
The Aggie 2H - Wellbore #1 - Design #1	2,350.00	2,351.00	19.66	7.48	1.615	ES, SF
The Aggie 32H - Wellbore #1 - Design #1	1,800.00	1,800.00	40.03	29.49	3.800	CC, ES
The Aggie 32H - Wellbore #1 - Design #1	9,001.40	9,030.61	971.14	692.17	3.481	SF
The Aggie 3H - Wellbore #1 - Design #1	1,466.33	1,467.33	60.04	50.62	6.376	CC
The Aggie 3H - Wellbore #1 - Design #1	1,500.00	1,500.98	60.04	50.50	6.296	ES
The Aggie 3H - Wellbore #1 - Design #1	9,001.40	9,421.68	1,495.53	1,225.37	5.536	SF
The Horned Frog						
The Horned Frog 1H - Wellbore #1 - Design #1	4,248.50	3,323.41	10.90	-19.75	0.356	Level 1, CC, ES, SF
The Horned Frog 2H - Wellbore #1 - Design #1	3,375.68	4,121.38	410.69	382.10	14.363	CC, ES
The Horned Frog 2H - Wellbore #1 - Design #1	4,200.00	3,238.52	454.12	417.04	12.247	SF
The Horned Frog 31H - Wellbore #1 - Design #1	3,800.00	3,506.03	47.48	15.87	1.502	ES, SF
The Horned Frog 31H - Wellbore #1 - Design #1	3,841.40	3,470.78	42.06	17.09	1.685	CC
The Horned Frog 32H - Wellbore #1 - Design #1	4,287.25	2,889.58	684.97	650.66	19.965	CC, ES
The Horned Frog 32H - Wellbore #1 - Design #1	4,300.00	2,885.62	685.05	650.68	19.934	SF
The Horned Frog 3H - Wellbore #1 - Design #1	4,437.67	2,932.54	623.85	585.80	16.394	CC
The Horned Frog 3H - Wellbore #1 - Design #1	4,442.09	2,932.14	623.87	585.79	16.385	ES, SF

Offset Design	The Aggie - The Aggie 1H - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-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)	Azimuth from North (°)	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	1.00	0.00	0.00	0.01	0.87	20.01	0.31	20.01				
100.00	100.00	101.00	100.00	0.92	0.93	0.87	20.01	0.31	20.01	18.16	1.85	10.793	
200.00	200.00	201.00	200.00	1.53	1.53	0.87	20.01	0.31	20.01	16.96	3.06	6.547	
300.00	300.00	301.00	300.00	1.95	1.96	0.87	20.01	0.31	20.01	16.10	3.91	5.117	
400.00	400.00	401.00	400.00	2.31	2.31	0.87	20.01	0.31	20.01	15.40	4.62	4.336	
500.00	500.00	501.00	500.00	2.61	2.62	0.87	20.01	0.31	20.01	14.78	5.23	3.826	
600.00	600.00	601.00	600.00	2.89	2.89	0.87	20.01	0.31	20.01	14.23	5.79	3.459	
700.00	700.00	701.00	700.00	3.15	3.15	0.87	20.01	0.31	20.01	13.72	6.30	3.178	

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



Stryker Directional Anticollision Report



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Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
800.00	800.00	801.00	800.00	3.39	3.39	0.87	20.01	0.31	20.01	13.24	6.77	2.955		
900.00	900.00	901.00	900.00	3.61	3.61	0.87	20.01	0.31	20.01	12.79	7.22	2.771		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	0.87	20.01	0.31	20.01	12.37	7.65	2.617		
1,100.00	1,100.00	1,101.00	1,100.00	4.03	4.03	0.87	20.01	0.31	20.01	11.96	8.05	2.485		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.22	0.87	20.01	0.31	20.01	11.57	8.44	2.370		
1,300.00	1,300.00	1,301.00	1,300.00	4.41	4.41	0.87	20.01	0.31	20.01	11.19	8.82	2.269		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.59	0.87	20.01	0.31	20.01	10.83	9.18	2.180		
1,466.33	1,466.33	1,467.33	1,466.33	4.71	4.71	0.87	20.01	0.31	20.01	10.60	9.42	2.125 CC		
1,500.00	1,500.00	1,500.99	1,499.99	4.77	4.77	0.87	20.01	0.31	20.01	10.48	9.54	2.099 ES, SF		
1,600.00	1,600.00	1,600.38	1,599.36	4.94	5.04	3.50	21.45	1.31	21.50	11.56	9.95	2.162		
1,700.00	1,700.00	1,699.52	1,698.36	5.10	5.31	9.47	25.70	4.29	26.11	15.74	10.36	2.519		
1,800.00	1,800.00	1,799.27	1,797.87	5.27	5.51	14.77	31.40	8.28	32.54	21.81	10.73	3.032		
1,900.00	1,900.00	1,899.03	1,897.38	5.43	5.72	18.30	37.10	12.27	39.17	28.06	11.11	3.526		
2,000.00	2,000.00	1,998.79	1,996.90	5.58	5.95	20.80	42.80	16.26	45.89	34.40	11.49	3.993		
2,100.00	2,100.00	2,098.54	2,096.41	5.74	6.19	22.67	48.50	20.25	52.68	40.79	11.89	4.431		
2,200.00	2,200.00	2,198.30	2,195.92	5.88	6.44	24.10	54.20	24.25	59.52	47.22	12.29	4.841		
2,300.00	2,300.00	2,298.06	2,295.44	6.03	6.70	25.24	59.90	28.24	66.38	53.67	12.71	5.224		
2,347.00	2,347.00	2,344.94	2,342.21	6.07	6.83	25.70	62.58	30.11	69.61	56.75	12.87	5.410		
2,350.00	2,350.00	2,347.93	2,345.19	6.07	6.84	25.72	62.75	30.23	69.82	56.94	12.88	5.422		
2,400.00	2,399.95	2,397.88	2,395.02	6.28	6.97	25.18	65.61	32.23	71.75	58.57	13.18	5.444		
2,450.00	2,449.65	2,447.78	2,444.80	6.43	7.11	22.85	68.46	34.23	71.06	57.66	13.40	5.304		
2,500.00	2,498.84	2,497.39	2,494.29	6.58	7.25	18.42	71.29	36.21	68.04	54.46	13.58	5.011		
2,550.00	2,547.29	2,546.47	2,543.25	6.73	7.38	11.20	74.10	38.18	63.35	49.68	13.67	4.634		
2,600.00	2,594.77	2,593.49	2,590.13	6.89	7.50	0.12	76.99	40.20	58.49	44.89	13.60	4.300		
2,640.86	2,632.68	2,630.47	2,626.83	7.03	7.65	-11.28	80.69	42.79	56.97	43.50	13.47	4.230		
2,650.00	2,641.04	2,638.78	2,635.04	7.06	7.69	-13.98	81.74	43.53	57.05	43.62	13.43	4.248		
2,700.00	2,685.88	2,684.37	2,679.79	7.22	7.90	-28.56	88.85	48.51	60.45	47.17	13.28	4.551		
2,750.00	2,729.07	2,730.25	2,724.17	7.39	8.13	-41.00	98.35	55.16	68.65	55.32	13.33	5.151		
2,800.00	2,770.39	2,776.36	2,767.93	7.55	8.35	-50.24	110.22	63.47	80.82	67.26	13.56	5.960		
2,850.00	2,809.66	2,822.67	2,810.87	7.72	8.58	-56.63	124.44	73.43	96.02	82.11	13.91	6.904		
2,900.00	2,846.67	2,869.18	2,852.75	7.88	8.80	-60.90	140.98	85.01	113.54	99.22	14.32	7.930		
2,950.00	2,881.24	2,915.86	2,893.39	8.03	9.03	-63.68	159.78	98.17	132.90	118.13	14.77	8.997		
3,000.00	2,913.21	2,962.71	2,932.59	8.18	9.25	-65.42	180.79	112.88	153.78	138.52	15.27	10.072		
3,034.50	2,933.67	2,995.14	2,958.70	8.37	9.40	-66.19	196.54	123.91	168.97	153.34	15.63	10.810		
3,100.00	2,971.24	3,057.93	3,006.65	9.07	9.68	-66.38	229.71	147.14	197.78	181.40	16.38	12.076		
3,200.00	3,028.60	3,156.64	3,074.38	10.29	10.08	-64.22	288.46	188.27	239.17	221.36	17.80	13.433		
3,234.50	3,048.39	3,190.94	3,095.51	10.72	10.21	-63.12	310.58	203.76	252.77	234.38	18.39	13.748		
3,250.00	3,057.11	3,206.28	3,104.53	10.92	10.27	-62.62	320.74	210.88	258.92	240.26	18.66	13.876		
3,300.00	3,082.91	3,251.52	3,130.50	11.62	10.40	-61.92	351.09	232.13	280.54	260.91	19.63	14.290		
3,350.00	3,104.99	3,295.17	3,155.54	12.40	10.53	-61.76	380.37	252.63	304.87	284.27	20.60	14.799		
3,400.00	3,123.17	3,337.31	3,179.71	13.23	10.65	-61.96	408.66	272.44	331.68	310.06	21.62	15.343		
3,450.00	3,137.33	3,377.65	3,202.85	14.12	10.77	-62.43	435.72	291.39	360.80	338.21	22.59	15.973		
3,500.00	3,147.36	3,422.53	3,228.54	15.06	10.91	-62.30	465.82	312.56	392.11	368.47	23.64	16.586		
3,550.00	3,153.17	3,534.78	3,285.67	16.02	11.01	-53.92	538.54	375.87	421.67	395.82	25.84	16.316		
3,577.89	3,154.56	3,585.70	3,306.88	16.57	12.73	-50.70	569.43	410.29	435.49	408.59	26.90	16.188		
3,600.00	3,155.14	3,678.49	3,338.57	17.01	14.13	-41.29	621.98	479.71	444.94	416.58	28.36	15.689		
3,700.00	3,157.77	3,925.99	3,370.23	19.06	18.35	-20.58	727.58	699.54	461.51	428.83	32.68	14.122		
3,800.00	3,160.41	4,042.37	3,373.29	21.16	20.49	-18.24	764.75	809.77	469.53	433.11	36.42	12.893		
3,900.00	3,163.05	4,159.23	3,376.39	23.29	22.71	-15.89	797.53	921.89	477.06	436.82	40.24	11.854		
4,000.00	3,165.70	4,276.54	3,379.50	25.44	25.00	-13.53	825.82	1,035.68	484.09	439.97	44.13	10.971		
4,100.00	3,168.35	4,394.26	3,382.64	27.62	27.34	-11.17	849.49	1,150.95	490.60	442.56	48.04	10.213		
4,200.00	3,171.00	4,512.38	3,385.78	29.80	29.73	-8.80	868.46	1,267.48	496.55	444.60	51.96	9.557		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie - The Aggie 1H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,300.00	3,173.64	4,630.84	3,388.92	32.00	32.14	-6.42	882.65	1,385.05	501.95	446.09	55.86	8.986		
4,400.00	3,176.28	4,749.64	3,392.07	34.19	34.58	-4.03	891.98	1,503.42	506.77	447.05	59.72	8.486		
4,442.09	3,177.38	4,799.72	3,393.39	35.11	35.61	-3.02	894.44	1,553.42	508.62	447.30	61.32	8.295		
4,500.00	3,178.90	4,868.73	3,395.20	36.38	37.03	-1.64	896.39	1,622.39	510.47	446.97	63.49	8.040		
4,600.00	3,181.53	4,977.01	3,398.04	38.58	39.27	-0.61	896.68	1,730.63	511.29	443.87	67.41	7.584		
4,700.00	3,184.15	5,077.01	3,400.65	40.80	41.35	-0.61	896.53	1,830.59	511.76	440.22	71.54	7.154		
4,800.00	3,186.77	5,177.01	3,403.27	43.03	43.46	-0.61	896.38	1,930.56	512.23	436.55	75.68	6.768		
4,900.00	3,189.40	5,277.01	3,405.88	45.27	45.59	-0.61	896.22	2,030.52	512.71	432.86	79.85	6.421		
5,000.00	3,192.02	5,377.01	3,408.50	47.52	47.74	-0.61	896.07	2,130.49	513.18	429.15	84.03	6.107		
5,100.00	3,194.65	5,477.01	3,411.11	49.78	49.90	-0.61	895.91	2,230.45	513.65	425.44	88.22	5.823		
5,200.00	3,197.27	5,577.01	3,413.73	52.04	52.08	-0.61	895.76	2,330.41	514.13	421.71	92.42	5.563		
5,300.00	3,199.89	5,677.00	3,416.34	54.31	54.27	-0.61	895.60	2,430.38	514.60	417.97	96.63	5.326		
5,400.00	3,202.52	5,777.00	3,418.96	56.59	56.47	-0.61	895.45	2,530.34	515.07	414.23	100.85	5.107		
5,500.00	3,205.14	5,877.00	3,421.57	58.87	58.69	-0.60	895.30	2,630.31	515.55	410.47	105.08	4.906		
5,600.00	3,207.76	5,977.00	3,424.19	61.15	60.91	-0.60	895.14	2,730.27	516.02	406.71	109.31	4.721		
5,700.00	3,210.39	6,077.00	3,426.81	63.44	63.14	-0.60	894.99	2,830.24	516.49	402.94	113.55	4.548		
5,800.00	3,213.01	6,177.00	3,429.42	65.73	65.37	-0.60	894.83	2,930.20	516.97	399.17	117.80	4.388		
5,900.00	3,215.64	6,277.00	3,432.04	68.02	67.62	-0.60	894.68	3,030.16	517.44	395.39	122.05	4.239		
6,000.00	3,218.26	6,376.99	3,434.65	70.32	69.87	-0.60	894.52	3,130.13	517.92	391.60	126.31	4.100		
6,100.00	3,220.88	6,476.99	3,437.27	72.62	72.12	-0.60	894.37	3,230.09	518.39	387.82	130.58	3.970		
6,200.00	3,223.51	6,576.99	3,439.88	74.92	74.38	-0.60	894.21	3,330.06	518.87	384.02	134.84	3.848		
6,300.00	3,226.13	6,676.99	3,442.50	77.22	76.64	-0.60	894.06	3,430.02	519.34	380.22	139.12	3.733		
6,400.00	3,228.75	6,776.99	3,445.11	79.53	78.91	-0.60	893.91	3,529.99	519.82	376.42	143.39	3.625		
6,500.00	3,231.38	6,876.99	3,447.73	81.84	81.18	-0.60	893.75	3,629.95	520.29	372.62	147.67	3.523		
6,600.00	3,234.00	6,976.99	3,450.34	84.14	83.46	-0.60	893.60	3,729.91	520.76	368.81	151.95	3.427		
6,700.00	3,236.63	7,076.98	3,452.96	86.45	85.74	-0.60	893.44	3,829.88	521.24	365.00	156.24	3.336		
6,800.00	3,239.25	7,176.98	3,455.58	88.76	88.02	-0.59	893.29	3,929.84	521.71	361.18	160.53	3.250		
6,900.00	3,241.87	7,276.98	3,458.19	91.08	90.30	-0.59	893.13	4,029.81	522.19	357.37	164.82	3.168		
7,000.00	3,244.50	7,376.98	3,460.81	93.39	92.59	-0.59	892.98	4,129.77	522.66	353.55	169.12	3.091		
7,100.00	3,247.12	7,476.98	3,463.42	95.70	94.87	-0.59	892.82	4,229.74	523.14	349.73	173.42	3.017		
7,200.00	3,249.75	7,576.98	3,466.04	98.02	97.16	-0.59	892.67	4,329.70	523.62	345.90	177.72	2.946		
7,300.00	3,252.37	7,676.98	3,468.65	100.34	99.46	-0.59	892.52	4,429.66	524.09	342.07	182.02	2.879		
7,400.00	3,254.99	7,776.98	3,471.27	102.65	101.75	-0.59	892.36	4,529.63	524.57	338.24	186.32	2.815		
7,500.00	3,257.62	7,876.97	3,473.88	104.97	104.05	-0.59	892.21	4,629.59	525.04	334.41	190.63	2.754		
7,600.00	3,260.24	7,976.97	3,476.50	107.29	106.35	-0.59	892.05	4,729.56	525.52	330.57	194.94	2.696		
7,700.00	3,262.86	8,076.97	3,479.11	109.61	108.64	-0.59	891.90	4,829.52	525.99	326.74	199.26	2.640		
7,800.00	3,265.49	8,176.97	3,481.73	111.93	110.95	-0.59	891.74	4,929.49	526.47	322.90	203.57	2.586		
7,900.00	3,268.11	8,276.97	3,484.35	114.25	113.25	-0.59	891.59	5,029.45	526.95	319.06	207.89	2.535		
8,000.00	3,270.74	8,376.97	3,486.96	116.57	115.55	-0.59	891.43	5,129.41	527.42	315.22	212.21	2.485		
8,100.00	3,273.36	8,476.97	3,489.58	118.89	117.86	-0.58	891.28	5,229.38	527.90	311.37	216.53	2.438		
8,200.00	3,275.98	8,576.96	3,492.19	121.21	120.16	-0.58	891.13	5,329.34	528.37	307.52	220.85	2.392		
8,300.00	3,278.61	8,676.96	3,494.81	123.54	122.47	-0.58	890.97	5,429.31	528.85	303.68	225.18	2.349		
8,400.00	3,281.23	8,776.96	3,497.42	125.86	124.78	-0.58	890.82	5,529.27	529.33	299.82	229.50	2.306		
8,500.00	3,283.85	8,876.96	3,500.04	128.18	127.08	-0.58	890.66	5,629.24	529.80	295.97	233.83	2.266		
8,600.00	3,286.48	8,976.96	3,502.65	130.51	129.39	-0.58	890.51	5,729.20	530.28	292.12	238.16	2.227		
8,700.00	3,289.10	9,076.96	3,505.27	132.83	131.70	-0.58	890.35	5,829.16	530.76	288.26	242.49	2.189		
8,800.00	3,291.73	9,176.96	3,507.88	135.15	134.02	-0.58	890.20	5,929.13	531.23	284.41	246.83	2.152		
8,900.00	3,294.35	9,276.95	3,510.50	137.48	136.33	-0.58	890.04	6,029.09	531.71	280.55	251.16	2.117		
9,000.00	3,296.97	9,293.03	3,510.92	139.80	136.70	-10.35	890.02	6,045.16	538.77	284.58	254.19	2.120		
9,001.40	3,297.01	9,293.03	3,510.92	139.84	136.70	-10.50	890.02	6,045.16	538.99	284.82	254.17	2.121		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	0.00	0.00	0.01	-179.11	-19.65	-0.30	19.65					
100.00	100.00	101.00	100.00	0.92	0.93	-179.11	-19.65	-0.30	19.65	17.80	1.85	10.599		
200.00	200.00	201.00	200.00	1.53	1.53	-179.11	-19.65	-0.30	19.65	16.60	3.06	6.430		
300.00	300.00	301.00	300.00	1.95	1.96	-179.11	-19.65	-0.30	19.65	15.74	3.91	5.025		
400.00	400.00	401.00	400.00	2.31	2.31	-179.11	-19.65	-0.30	19.65	15.04	4.62	4.258		
500.00	500.00	501.00	500.00	2.61	2.62	-179.11	-19.65	-0.30	19.65	14.42	5.23	3.757		
600.00	600.00	601.00	600.00	2.89	2.89	-179.11	-19.65	-0.30	19.65	13.87	5.79	3.396		
700.00	700.00	701.00	700.00	3.15	3.15	-179.11	-19.65	-0.30	19.65	13.36	6.30	3.121		
800.00	800.00	801.00	800.00	3.39	3.39	-179.11	-19.65	-0.30	19.65	12.88	6.77	2.902		
900.00	900.00	901.00	900.00	3.61	3.61	-179.11	-19.65	-0.30	19.65	12.43	7.22	2.722		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-179.11	-19.65	-0.30	19.65	12.01	7.65	2.570		
1,100.00	1,100.00	1,101.00	1,100.00	4.03	4.03	-179.11	-19.65	-0.30	19.65	11.60	8.05	2.440		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.22	-179.11	-19.65	-0.30	19.65	11.21	8.44	2.328		
1,300.00	1,300.00	1,301.00	1,300.00	4.41	4.41	-179.11	-19.65	-0.30	19.65	10.83	8.82	2.229		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.59	-179.11	-19.65	-0.30	19.65	10.47	9.18	2.140		
1,500.00	1,500.00	1,501.00	1,500.00	4.77	4.77	-179.11	-19.65	-0.30	19.65	10.12	9.53	2.061		
1,600.00	1,600.00	1,601.00	1,600.00	4.94	4.94	-179.11	-19.65	-0.30	19.65	9.78	9.88	1.990		
1,700.00	1,700.00	1,701.00	1,700.00	5.10	5.11	-179.11	-19.65	-0.30	19.65	9.44	10.21	1.925		
1,800.00	1,800.00	1,801.00	1,800.00	5.27	5.27	-179.11	-19.65	-0.30	19.65	9.12	10.54	1.865		
1,900.00	1,900.00	1,901.00	1,900.00	5.43	5.43	-179.11	-19.65	-0.30	19.65	8.80	10.85	1.811		
2,000.00	2,000.00	2,001.00	2,000.00	5.58	5.58	-179.11	-19.65	-0.30	19.65	8.49	11.17	1.760		
2,100.00	2,100.00	2,101.00	2,100.00	5.74	5.74	-179.11	-19.65	-0.30	19.65	8.18	11.47	1.713		
2,200.00	2,200.00	2,201.00	2,200.00	5.88	5.89	-179.11	-19.65	-0.30	19.65	7.88	11.77	1.670		
2,300.00	2,300.00	2,301.00	2,300.00	6.03	6.03	-179.11	-19.65	-0.30	19.65	7.59	12.07	1.629		
2,347.00	2,347.00	2,348.00	2,347.00	6.07	6.10	-179.11	-19.65	-0.30	19.65	7.49	12.17	1.615 CC		
2,350.00	2,350.00	2,351.00	2,350.00	6.07	6.11	-179.10	-19.65	-0.30	19.66	7.48	12.17	1.615 ES, SF		
2,400.00	2,399.95	2,400.95	2,399.95	6.28	6.18	-174.20	-19.65	-0.30	20.59	8.21	12.38	1.663		
2,450.00	2,449.65	2,450.65	2,449.65	6.43	6.25	-162.90	-19.65	-0.30	23.83	11.28	12.55	1.898		
2,500.00	2,498.84	2,499.84	2,498.84	6.58	6.32	-150.42	-19.65	-0.30	30.51	17.72	12.79	2.386		
2,550.00	2,547.29	2,548.29	2,547.29	6.73	6.39	-140.45	-19.65	-0.30	41.15	28.11	13.04	3.155		
2,600.00	2,594.77	2,595.77	2,594.77	6.89	6.45	-133.51	-19.65	-0.30	55.69	42.39	13.30	4.188		
2,650.00	2,641.04	2,643.38	2,642.38	7.06	6.48	-128.91	-19.62	-0.15	73.75	60.24	13.51	5.460		
2,700.00	2,685.88	2,694.66	2,693.57	7.22	6.61	-126.49	-19.12	2.70	93.05	79.29	13.77	6.759		
2,750.00	2,729.07	2,747.47	2,745.92	7.39	6.75	-125.47	-17.94	9.40	112.60	98.59	14.01	8.035		
2,800.00	2,770.39	2,801.89	2,799.20	7.55	6.91	-125.31	-16.02	20.26	132.22	117.98	14.24	9.287		
2,850.00	2,809.66	2,858.04	2,853.13	7.72	7.08	-125.75	-13.32	35.61	151.76	137.32	14.44	10.508		
2,900.00	2,846.67	2,916.01	2,907.35	7.88	7.26	-126.69	-9.76	55.77	171.12	156.49	14.63	11.698		
2,950.00	2,881.24	2,975.89	2,961.43	8.03	7.45	-128.09	-5.31	81.05	190.20	175.39	14.81	12.843		
3,000.00	2,913.21	3,037.78	3,014.87	8.18	7.64	-129.97	0.11	111.76	208.89	193.89	14.99	13.933		
3,034.50	2,933.67	3,081.69	3,051.05	8.37	7.78	-131.57	4.43	136.25	221.50	206.40	15.10	14.670		
3,100.00	2,971.24	3,168.88	3,118.05	9.07	8.05	-135.70	14.10	191.11	241.94	226.62	15.32	15.796		
3,200.00	3,028.60	3,309.24	3,210.27	10.29	8.68	-145.80	32.42	295.02	260.10	244.09	16.01	16.248		
3,234.50	3,048.39	3,345.06	3,230.84	10.72	9.09	-147.77	37.51	323.90	263.47	246.96	16.51	15.955		
3,250.00	3,057.11	3,360.21	3,239.53	10.92	9.27	-148.43	39.67	336.12	265.20	248.44	16.76	15.820		
3,300.00	3,082.91	3,409.06	3,267.55	11.62	9.85	-150.03	46.62	375.53	273.12	255.46	17.67	15.459		
3,350.00	3,104.99	3,457.59	3,295.39	12.40	10.48	-150.88	53.52	414.68	284.43	265.84	18.59	15.297		
3,400.00	3,123.17	3,505.42	3,322.82	13.23	11.11	-151.07	60.33	453.27	298.90	279.43	19.47	15.348		
3,450.00	3,137.33	3,570.23	3,357.95	14.12	12.04	-153.97	69.01	507.00	315.37	294.98	20.38	15.471		
3,500.00	3,147.36	3,641.95	3,389.79	15.06	13.21	-158.86	76.78	570.74	331.37	309.82	21.55	15.378		
3,550.00	3,153.17	3,715.51	3,414.19	16.02	14.54	-164.86	82.59	639.83	346.67	323.69	22.98	15.087		
3,577.89	3,154.56	3,757.22	3,424.16	16.57	15.33	-168.56	84.89	680.26	354.85	330.97	23.88	14.860		
3,600.00	3,155.14	3,790.67	3,430.07	17.01	16.00	-171.62	86.19	713.15	360.83	336.15	24.67	14.625		

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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie - The Aggie 2H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,700.00	3,157.77	3,909.93	3,437.69	19.06	18.44	-177.44	86.97	832.05	380.21	351.70	28.51	13.335		
3,800.00	3,160.41	4,000.00	3,440.05	21.16	20.36	-176.22	84.11	922.04	398.42	366.24	32.18	12.382		
3,900.00	3,163.05	4,085.60	3,442.29	23.29	22.21	-174.21	78.76	1,007.45	417.19	381.36	35.83	11.643		
4,000.00	3,165.70	4,179.41	3,444.74	25.44	24.24	-173.75	70.72	1,100.88	435.86	396.06	39.80	10.952		
4,100.00	3,168.35	4,277.06	3,447.29	27.62	26.38	-173.83	62.21	1,198.12	452.56	408.65	43.91	10.306		
4,200.00	3,171.00	4,375.39	3,449.86	29.80	28.56	-173.88	53.65	1,296.05	466.93	418.88	48.05	9.717		
4,300.00	3,173.64	4,474.30	3,452.45	32.00	30.77	-173.93	45.03	1,394.55	478.76	426.57	52.18	9.174		
4,400.00	3,176.28	4,573.66	3,455.05	34.19	33.00	-173.96	36.38	1,493.50	487.91	431.61	56.29	8.667		
4,442.09	3,177.38	4,615.59	3,456.14	35.11	33.95	-173.97	32.72	1,535.25	490.94	432.93	58.00	8.464		
4,500.00	3,178.90	4,673.32	3,457.65	36.38	35.25	-173.98	27.69	1,592.74	494.77	434.41	60.36	8.197		
4,600.00	3,181.53	4,772.99	3,460.26	38.58	37.52	-174.00	19.01	1,692.00	501.41	436.94	64.47	7.777		
4,700.00	3,184.15	4,872.67	3,462.86	40.80	39.79	-174.02	10.33	1,791.26	508.10	439.47	68.63	7.403		
4,800.00	3,186.77	4,972.35	3,465.47	43.03	42.07	-174.04	1.64	1,890.53	514.82	442.00	72.82	7.070		
4,900.00	3,189.40	5,072.02	3,468.07	45.27	44.35	-174.05	-7.04	1,989.79	521.59	444.53	77.06	6.769		
5,000.00	3,192.02	5,171.70	3,470.68	47.52	46.64	-174.07	-15.72	2,089.05	528.38	447.06	81.32	6.497		
5,100.00	3,194.65	5,271.38	3,473.28	49.78	48.93	-174.09	-24.41	2,188.32	535.22	449.60	85.62	6.251		
5,200.00	3,197.27	5,371.05	3,475.89	52.04	51.23	-174.10	-33.09	2,287.58	542.08	452.14	89.95	6.027		
5,300.00	3,199.89	5,470.73	3,478.49	54.31	53.53	-174.12	-41.77	2,386.84	548.98	454.68	94.30	5.822		
5,400.00	3,202.52	5,570.41	3,481.10	56.59	55.83	-174.13	-50.46	2,486.11	555.91	457.23	98.67	5.634		
5,500.00	3,205.14	5,670.08	3,483.70	58.87	58.14	-174.15	-59.14	2,585.37	562.86	459.79	103.07	5.461		
5,600.00	3,207.76	5,775.92	3,486.47	61.15	60.59	-174.17	-68.14	2,690.79	569.69	461.94	107.75	5.287		
5,700.00	3,210.39	5,896.88	3,489.64	63.44	63.40	-177.30	-74.64	2,811.52	573.78	460.89	112.89	5.083		
5,800.00	3,213.01	6,012.44	3,492.66	65.73	66.08	-179.07	-76.20	2,927.03	574.31	456.79	117.52	4.887		
5,900.00	3,215.64	6,112.44	3,495.28	68.02	68.39	-179.07	-76.35	3,026.99	573.85	452.24	121.61	4.719		
6,000.00	3,218.26	6,212.44	3,497.90	70.32	70.71	-179.07	-76.51	3,126.95	573.39	447.69	125.70	4.562		
6,100.00	3,220.88	6,312.43	3,500.52	72.62	73.03	-179.07	-76.67	3,226.92	572.93	443.14	129.79	4.414		
6,200.00	3,223.51	6,412.43	3,503.13	74.92	75.35	-179.07	-76.82	3,326.88	572.47	438.59	133.88	4.276		
6,300.00	3,226.13	6,512.43	3,505.75	77.22	77.67	-179.07	-76.98	3,426.85	572.01	434.04	137.97	4.146		
6,400.00	3,228.75	6,612.43	3,508.37	79.53	79.99	-179.07	-77.14	3,526.81	571.55	429.49	142.06	4.023		
6,500.00	3,231.38	6,712.43	3,510.99	81.84	82.31	-179.07	-77.30	3,626.78	571.09	424.94	146.16	3.907		
6,600.00	3,234.00	6,812.43	3,513.60	84.14	84.64	-179.07	-77.45	3,726.74	570.63	420.39	150.25	3.798		
6,700.00	3,236.63	6,912.43	3,516.22	86.45	86.96	-179.07	-77.61	3,826.70	570.18	415.84	154.34	3.694		
6,800.00	3,239.25	7,012.42	3,518.84	88.76	89.28	-179.06	-77.77	3,926.67	569.72	411.29	158.43	3.596		
6,900.00	3,241.87	7,112.42	3,521.46	91.08	91.61	-179.06	-77.92	4,026.63	569.26	406.74	162.52	3.503		
7,000.00	3,244.50	7,212.42	3,524.07	93.39	93.93	-179.06	-78.08	4,126.60	568.80	402.20	166.60	3.414		
7,100.00	3,247.12	7,312.42	3,526.69	95.70	96.26	-179.06	-78.24	4,226.56	568.34	397.65	170.69	3.330		
7,200.00	3,249.75	7,412.42	3,529.31	98.02	98.58	-179.06	-78.39	4,326.52	567.88	393.10	174.78	3.249		
7,300.00	3,252.37	7,512.42	3,531.93	100.34	100.91	-179.06	-78.55	4,426.49	567.42	388.56	178.86	3.172		
7,400.00	3,254.99	7,612.42	3,534.55	102.65	103.23	-179.06	-78.71	4,526.45	566.97	384.02	182.95	3.099		
7,500.00	3,257.62	7,712.41	3,537.16	104.97	105.56	-179.06	-78.87	4,626.42	566.51	379.48	187.03	3.029		
7,600.00	3,260.24	7,812.41	3,539.78	107.29	107.89	-179.06	-79.02	4,726.38	566.05	374.94	191.11	2.962		
7,700.00	3,262.86	7,912.41	3,542.40	109.61	110.22	-179.06	-79.18	4,826.35	565.59	370.40	195.19	2.898		
7,800.00	3,265.49	8,012.41	3,545.02	111.93	112.54	-179.06	-79.34	4,926.31	565.13	365.86	199.27	2.836		
7,900.00	3,268.11	8,112.41	3,547.63	114.25	114.87	-179.06	-79.49	5,026.27	564.68	361.32	203.35	2.777		
8,000.00	3,270.74	8,212.41	3,550.25	116.57	117.20	-179.05	-79.65	5,126.24	564.22	356.79	207.43	2.720		
8,100.00	3,273.36	8,312.41	3,552.87	118.89	119.53	-179.05	-79.81	5,226.20	563.76	352.26	211.50	2.665		
8,200.00	3,275.98	8,412.41	3,555.49	121.21	121.86	-179.05	-79.97	5,326.17	563.30	347.72	215.58	2.613		
8,300.00	3,278.61	8,512.40	3,558.10	123.54	124.18	-179.05	-80.12	5,426.13	562.85	343.19	219.65	2.562		
8,400.00	3,281.23	8,612.40	3,560.72	125.86	126.51	-179.05	-80.28	5,526.10	562.39	338.67	223.72	2.514		
8,500.00	3,283.85	8,712.40	3,563.34	128.18	128.84	-179.05	-80.44	5,626.06	561.93	334.14	227.79	2.467		
8,600.00	3,286.48	8,812.40	3,565.96	130.51	131.17	-179.05	-80.59	5,726.02	561.47	329.61	231.86	2.422		
8,700.00	3,289.10	8,912.40	3,568.58	132.83	133.50	-179.05	-80.75	5,825.99	561.02	325.09	235.93	2.378		

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



Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie - The Aggie 2H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	3,291.73	9,012.40	3,571.19	135.15	135.83	-179.05	-80.91	5,925.95	560.56	320.57	239.99	2.336		
8,900.00	3,294.35	9,112.40	3,573.81	137.48	138.16	-179.05	-81.06	6,025.92	560.10	316.05	244.05	2.295		
8,911.32	3,294.65	9,121.15	3,574.04	137.74	138.36	-178.74	-81.08	6,034.67	560.06	315.62	244.44	2.291		
9,000.00	3,296.97	9,121.15	3,574.04	139.80	138.36	-168.42	-81.08	6,034.67	567.04	324.64	242.40	2.339		
9,001.40	3,297.01	9,121.15	3,574.04	139.84	138.36	-168.26	-81.08	6,034.67	567.26	324.93	242.32	2.341		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-179.12	-40.02	-0.61	40.03					
100.00	100.00	100.00	100.00	0.92	0.92	-179.12	-40.02	-0.61	40.03	38.18	1.85	21.655		
200.00	200.00	200.00	200.00	1.53	1.53	-179.12	-40.02	-0.61	40.03	36.97	3.05	13.113		
300.00	300.00	300.00	300.00	1.95	1.95	-179.12	-40.02	-0.61	40.03	36.12	3.91	10.242		
400.00	400.00	400.00	400.00	2.31	2.31	-179.12	-40.02	-0.61	40.03	35.41	4.61	8.677		
500.00	500.00	500.00	500.00	2.61	2.61	-179.12	-40.02	-0.61	40.03	34.80	5.23	7.655		
600.00	600.00	600.00	600.00	2.89	2.89	-179.12	-40.02	-0.61	40.03	34.24	5.78	6.920		
700.00	700.00	700.00	700.00	3.15	3.15	-179.12	-40.02	-0.61	40.03	33.73	6.29	6.359		
800.00	800.00	800.00	800.00	3.39	3.39	-179.12	-40.02	-0.61	40.03	33.26	6.77	5.912		
900.00	900.00	900.00	900.00	3.61	3.61	-179.12	-40.02	-0.61	40.03	32.81	7.22	5.544		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	-179.12	-40.02	-0.61	40.03	32.38	7.65	5.236		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	-179.12	-40.02	-0.61	40.03	31.98	8.05	4.971		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	-179.12	-40.02	-0.61	40.03	31.59	8.44	4.742		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	-179.12	-40.02	-0.61	40.03	31.21	8.82	4.540		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	-179.12	-40.02	-0.61	40.03	30.85	9.18	4.360		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	-179.12	-40.02	-0.61	40.03	30.49	9.53	4.199		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	-179.12	-40.02	-0.61	40.03	30.15	9.88	4.053		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	-179.12	-40.02	-0.61	40.03	29.82	10.21	3.921		
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	-179.12	-40.02	-0.61	40.03	29.49	10.53	3.800	CC, ES	
1,900.00	1,900.00	1,899.18	1,899.16	5.43	5.50	178.89	-41.01	0.79	41.02	30.16	10.87	3.776		
2,000.00	2,000.00	1,998.13	1,997.97	5.58	5.72	173.51	-43.95	5.00	44.28	33.09	11.19	3.957		
2,100.00	2,100.00	2,096.60	2,096.07	5.74	5.96	166.24	-48.82	11.95	50.42	38.87	11.54	4.367		
2,200.00	2,200.00	2,196.01	2,194.94	5.88	6.15	159.52	-54.78	20.46	58.70	46.81	11.89	4.937		
2,300.00	2,300.00	2,295.46	2,293.84	6.03	6.34	154.50	-60.74	28.98	67.58	55.34	12.25	5.518		
2,347.00	2,347.00	2,342.20	2,340.33	6.07	6.45	152.57	-63.55	32.98	71.90	59.52	12.39	5.806		
2,350.00	2,350.00	2,345.19	2,343.30	6.07	6.45	152.46	-63.72	33.24	72.18	59.79	12.39	5.825		
2,400.00	2,399.95	2,394.97	2,392.80	6.28	6.56	152.12	-66.71	37.50	76.74	64.13	12.60	6.089		
2,450.00	2,449.65	2,444.67	2,442.24	6.43	6.65	154.29	-69.69	41.75	81.15	68.45	12.70	6.391		
2,500.00	2,498.84	2,490.58	2,487.79	6.58	6.78	158.39	-72.92	46.36	86.54	73.77	12.77	6.777		
2,550.00	2,547.29	2,534.78	2,531.24	6.73	6.95	163.19	-77.55	52.98	95.00	82.15	12.84	7.396		
2,600.00	2,594.77	2,578.08	2,573.24	6.89	7.13	168.13	-83.57	61.58	106.69	93.77	12.92	8.256		
2,650.00	2,641.04	2,620.25	2,613.47	7.06	7.31	172.86	-90.83	71.94	121.60	108.58	13.02	9.338		
2,700.00	2,685.88	2,661.14	2,651.69	7.22	7.49	177.22	-99.14	83.82	139.58	126.43	13.15	10.614		
2,750.00	2,729.07	2,700.00	2,687.20	7.39	7.66	-178.77	-108.20	96.75	160.46	147.15	13.31	12.056		
2,800.00	2,770.39	2,738.57	2,721.54	7.55	7.83	-175.33	-118.26	111.12	184.01	170.47	13.54	13.593		
2,850.00	2,809.66	2,774.96	2,753.03	7.72	7.99	-172.17	-128.72	126.05	210.01	196.21	13.80	15.217		
2,900.00	2,846.67	2,809.76	2,782.24	7.88	8.14	-169.31	-139.56	141.54	238.24	224.13	14.11	16.883		
2,950.00	2,881.24	2,842.95	2,809.22	8.03	8.28	-166.72	-150.65	157.38	268.50	254.03	14.47	18.555		
3,000.00	2,913.21	2,874.57	2,834.06	8.18	8.41	-164.35	-161.87	173.40	300.56	285.68	14.88	20.200		
3,034.50	2,933.67	2,895.49	2,850.00	8.37	8.49	-162.83	-169.63	184.49	323.64	308.46	15.18	21.321		
3,100.00	2,971.24	2,934.25	2,878.49	9.07	8.65	-160.46	-184.71	206.02	368.86	353.07	15.80	23.349		
3,200.00	3,028.60	2,992.16	2,918.28	10.29	8.87	-158.06	-208.83	240.46	440.10	423.28	16.82	26.164		
3,234.50	3,048.39	3,011.67	2,930.90	10.72	8.93	-157.45	-217.36	252.65	465.17	447.98	17.19	27.060		
3,250.00	3,057.11	3,020.32	2,936.37	10.92	8.96	-157.18	-221.20	258.14	476.50	459.14	17.36	27.445		
3,300.00	3,082.91	3,050.00	2,954.51	11.62	9.07	-156.44	-234.68	277.38	513.39	495.41	17.99	28.541		
3,350.00	3,104.99	3,075.29	2,969.21	12.40	9.14	-155.26	-246.48	294.24	550.56	531.96	18.60	29.602		
3,400.00	3,123.17	3,106.90	2,987.34	13.23	9.22	-154.58	-261.34	315.45	587.62	568.21	19.42	30.265		
3,450.00	3,137.33	3,137.48	3,004.88	14.12	9.41	-153.74	-275.70	335.97	624.37	604.14	20.23	30.859		
3,500.00	3,147.36	3,166.78	3,021.69	15.06	9.71	-152.80	-289.47	355.63	660.76	639.70	21.06	31.369		
3,550.00	3,153.17	3,194.60	3,037.64	16.02	10.12	-151.76	-302.54	374.30	696.77	674.78	21.99	31.687		
3,577.89	3,154.56	3,209.38	3,046.12	16.57	10.33	-151.15	-309.48	384.22	716.68	694.20	22.48	31.875		
3,600.00	3,155.14	3,220.94	3,052.75	17.01	10.48	-150.67	-314.92	391.97	732.43	709.57	22.86	32.041		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,700.00	3,157.77	3,330.00	3,113.37	19.06	12.00	-152.06	-364.89	467.51	803.69	777.54	26.15	30.734		
3,800.00	3,160.41	3,764.82	3,219.05	21.16	20.13	-174.90	-470.15	865.94	842.81	803.97	38.84	21.698		
3,900.00	3,163.05	3,860.72	3,221.56	23.29	22.09	-174.90	-478.51	961.45	871.05	828.17	42.88	20.315		
4,000.00	3,165.70	3,957.55	3,224.09	25.44	24.12	-174.90	-486.95	1,057.88	895.94	848.91	47.03	19.049		
4,100.00	3,168.35	4,055.19	3,226.65	27.62	26.21	-174.90	-495.45	1,155.12	917.45	866.16	51.29	17.888		
4,200.00	3,171.00	4,153.53	3,229.22	29.80	28.34	-174.91	-504.02	1,253.04	935.55	879.92	55.63	16.819		
4,300.00	3,173.64	4,252.44	3,231.81	32.00	30.51	-174.91	-512.64	1,351.54	950.21	890.18	60.03	15.829		
4,400.00	3,176.28	4,351.80	3,234.41	34.19	32.70	-174.91	-521.29	1,450.49	961.42	896.94	64.48	14.910		
4,442.09	3,177.38	4,395.87	3,235.57	35.11	33.68	-175.04	-525.13	1,494.38	965.10	898.68	66.42	14.531		
4,500.00	3,178.90	4,483.04	3,237.85	36.38	35.63	-176.78	-531.21	1,581.30	968.74	898.93	69.81	13.877		
4,600.00	3,181.53	4,629.21	3,241.68	38.58	38.89	-179.51	-535.47	1,727.35	970.90	895.45	75.45	12.868		
4,700.00	3,184.15	4,729.21	3,244.30	40.80	41.10	-179.51	-536.16	1,827.31	970.90	890.93	79.98	12.140		
4,800.00	3,186.77	4,829.21	3,246.92	43.03	43.34	-179.51	-536.84	1,927.28	970.91	886.39	84.52	11.487		
4,900.00	3,189.40	4,929.21	3,249.55	45.27	45.58	-179.51	-537.53	2,027.24	970.92	881.84	89.08	10.899		
5,000.00	3,192.02	5,029.21	3,252.17	47.52	47.83	-179.51	-538.21	2,127.20	970.92	877.28	93.65	10.368		
5,100.00	3,194.65	5,129.21	3,254.79	49.78	50.09	-179.51	-538.90	2,227.17	970.93	872.71	98.22	9.885		
5,200.00	3,197.27	5,229.21	3,257.41	52.04	52.35	-179.51	-539.59	2,327.13	970.93	868.13	102.80	9.444		
5,300.00	3,199.89	5,329.21	3,260.03	54.31	54.62	-179.51	-540.27	2,427.09	970.94	863.54	107.39	9.041		
5,400.00	3,202.52	5,429.21	3,262.65	56.59	56.90	-179.51	-540.96	2,527.06	970.94	858.95	111.99	8.670		
5,500.00	3,205.14	5,529.21	3,265.27	58.87	59.18	-179.51	-541.64	2,627.02	970.95	854.36	116.59	8.328		
5,600.00	3,207.76	5,629.21	3,267.89	61.15	61.46	-179.51	-542.33	2,726.98	970.95	849.76	121.20	8.011		
5,700.00	3,210.39	5,729.21	3,270.52	63.44	63.75	-179.51	-543.02	2,826.95	970.96	845.15	125.81	7.718		
5,800.00	3,213.01	5,829.21	3,273.14	65.73	66.04	-179.51	-543.70	2,926.91	970.97	840.54	130.42	7.445		
5,900.00	3,215.64	5,929.21	3,275.76	68.02	68.33	-179.51	-544.39	3,026.87	970.97	835.93	135.04	7.190		
6,000.00	3,218.28	6,029.21	3,278.38	70.32	70.63	-179.51	-545.08	3,126.84	970.98	831.32	139.66	6.953		
6,100.00	3,220.88	6,129.21	3,281.00	72.62	72.93	-179.51	-545.76	3,226.80	970.98	826.70	144.28	6.730		
6,200.00	3,223.51	6,229.21	3,283.62	74.92	75.23	-179.51	-546.45	3,326.76	970.99	822.08	148.91	6.521		
6,300.00	3,226.13	6,329.21	3,286.24	77.22	77.53	-179.51	-547.13	3,426.73	970.99	817.46	153.53	6.324		
6,400.00	3,228.75	6,429.21	3,288.86	79.53	79.83	-179.51	-547.82	3,526.69	971.00	812.84	158.16	6.139		
6,500.00	3,231.38	6,529.21	3,291.48	81.84	82.14	-179.51	-548.51	3,626.65	971.00	808.21	162.79	5.965		
6,600.00	3,234.00	6,629.21	3,294.11	84.14	84.45	-179.51	-549.19	3,726.61	971.01	803.58	167.43	5.800		
6,700.00	3,236.63	6,729.21	3,296.73	86.45	86.76	-179.51	-549.88	3,826.58	971.02	798.95	172.06	5.643		
6,800.00	3,239.25	6,829.21	3,299.35	88.76	89.07	-179.51	-550.56	3,926.54	971.02	794.32	176.70	5.495		
6,900.00	3,241.87	6,929.21	3,301.97	91.08	91.38	-179.51	-551.25	4,026.50	971.03	789.69	181.33	5.355		
7,000.00	3,244.50	7,029.21	3,304.59	93.39	93.69	-179.51	-551.94	4,126.47	971.03	785.06	185.97	5.221		
7,100.00	3,247.12	7,129.21	3,307.21	95.70	96.01	-179.51	-552.62	4,226.43	971.04	780.43	190.61	5.094		
7,200.00	3,249.75	7,229.21	3,309.83	98.02	98.32	-179.51	-553.31	4,326.39	971.04	775.79	195.25	4.973		
7,300.00	3,252.37	7,329.21	3,312.45	100.34	100.64	-179.51	-553.99	4,426.36	971.05	771.15	199.90	4.858		
7,400.00	3,254.99	7,429.21	3,315.07	102.65	102.95	-179.51	-554.68	4,526.32	971.06	766.52	204.54	4.748		
7,500.00	3,257.62	7,529.21	3,317.70	104.97	105.27	-179.51	-555.37	4,626.28	971.06	761.88	209.18	4.642		
7,600.00	3,260.24	7,629.21	3,320.32	107.29	107.59	-179.51	-556.05	4,726.25	971.07	757.24	213.83	4.541		
7,700.00	3,262.86	7,729.21	3,322.94	109.61	109.91	-179.51	-556.74	4,826.21	971.07	752.60	218.47	4.445		
7,800.00	3,265.49	7,829.21	3,325.56	111.93	112.23	-179.51	-557.42	4,926.17	971.08	747.96	223.12	4.352		
7,900.00	3,268.11	7,929.21	3,328.18	114.25	114.55	-179.51	-558.11	5,026.14	971.08	743.32	227.76	4.264		
8,000.00	3,270.74	8,029.21	3,330.80	116.57	116.87	-179.51	-558.80	5,126.10	971.09	738.68	232.41	4.178		
8,100.00	3,273.36	8,129.21	3,333.42	118.89	119.19	-179.51	-559.48	5,226.06	971.09	734.04	237.06	4.096		
8,200.00	3,275.98	8,229.21	3,336.04	121.21	121.51	-179.51	-560.17	5,326.03	971.10	729.39	241.71	4.018		
8,300.00	3,278.61	8,329.21	3,338.66	123.54	123.83	-179.51	-560.86	5,425.99	971.11	724.75	246.35	3.942		
8,400.00	3,281.23	8,429.21	3,341.29	125.86	126.16	-179.51	-561.54	5,525.95	971.11	720.11	251.00	3.869		
8,500.00	3,283.85	8,529.21	3,343.91	128.18	128.48	-179.51	-562.23	5,625.92	971.12	715.46	255.65	3.799		
8,600.00	3,286.48	8,629.21	3,346.53	130.51	130.80	-179.51	-562.91	5,725.88	971.12	710.82	260.30	3.731		
8,700.00	3,289.10	8,729.21	3,349.15	132.83	133.13	-179.51	-563.60	5,825.84	971.13	706.17	264.95	3.665		

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



Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design The Aggie - The Aggie 32H - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	3,291.73	8,829.21	3,351.77	135.15	135.45	-179.51	-564.29	5,925.81	971.13	701.53	269.60	3.602		
8,900.00	3,294.35	8,929.21	3,354.39	137.48	137.78	-179.51	-564.97	6,025.77	971.14	696.88	274.26	3.541		
9,000.00	3,296.97	9,029.21	3,357.01	139.80	140.10	-179.51	-565.66	6,125.73	971.14	692.24	278.91	3.482		
9,001.40	3,297.01	9,030.61	3,357.05	139.84	140.13	-179.51	-565.67	6,127.13	971.14	692.17	278.97	3.481 SF		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference				Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	0.00	0.00	0.01	-179.41	-60.04	-0.61	60.04					
100.00	100.00	101.00	100.00	0.92	0.93	-179.41	-60.04	-0.61	60.04	58.18	1.85	32.376		
200.00	200.00	201.00	200.00	1.53	1.53	-179.41	-60.04	-0.61	60.04	56.98	3.06	19.641		
300.00	300.00	301.00	300.00	1.95	1.96	-179.41	-60.04	-0.61	60.04	56.13	3.91	15.349		
400.00	400.00	401.00	400.00	2.31	2.31	-179.41	-60.04	-0.61	60.04	55.42	4.62	13.006		
500.00	500.00	501.00	500.00	2.61	2.62	-179.41	-60.04	-0.61	60.04	54.81	5.23	11.476		
600.00	600.00	601.00	600.00	2.89	2.89	-179.41	-60.04	-0.61	60.04	54.25	5.79	10.375		
700.00	700.00	701.00	700.00	3.15	3.15	-179.41	-60.04	-0.61	60.04	53.74	6.30	9.534		
800.00	800.00	801.00	800.00	3.39	3.39	-179.41	-60.04	-0.61	60.04	53.27	6.77	8.864		
900.00	900.00	901.00	900.00	3.61	3.61	-179.41	-60.04	-0.61	60.04	52.82	7.22	8.314		
1,000.00	1,000.00	1,001.00	1,000.00	3.82	3.82	-179.41	-60.04	-0.61	60.04	52.39	7.65	7.851		
1,100.00	1,100.00	1,101.00	1,100.00	4.03	4.03	-179.41	-60.04	-0.61	60.04	51.99	8.05	7.455		
1,200.00	1,200.00	1,201.00	1,200.00	4.22	4.22	-179.41	-60.04	-0.61	60.04	51.60	8.44	7.111		
1,300.00	1,300.00	1,301.00	1,300.00	4.41	4.41	-179.41	-60.04	-0.61	60.04	51.22	8.82	6.808		
1,400.00	1,400.00	1,401.00	1,400.00	4.59	4.59	-179.41	-60.04	-0.61	60.04	50.86	9.18	6.538		
1,466.33	1,466.33	1,467.33	1,466.33	4.71	4.71	-179.41	-60.04	-0.61	60.04	50.62	9.42	6.376 CC		
1,500.00	1,500.00	1,500.98	1,499.98	4.77	4.77	-179.41	-60.04	-0.61	60.04	50.50	9.54	6.296 ES		
1,600.00	1,600.00	1,600.00	1,598.98	4.94	5.02	179.64	-61.46	0.39	61.47	51.55	9.93	6.193		
1,700.00	1,700.00	1,697.32	1,696.16	5.10	5.26	177.14	-65.60	3.28	65.79	55.50	10.29	6.392		
1,800.00	1,800.00	1,797.02	1,795.62	5.27	5.43	174.18	-71.30	7.27	71.80	61.17	10.63	6.757		
1,900.00	1,900.00	1,896.78	1,895.14	5.43	5.61	171.68	-77.00	11.26	77.97	67.00	10.97	7.108		
2,000.00	2,000.00	1,996.54	1,994.65	5.58	5.82	169.55	-82.70	15.25	84.26	72.94	11.32	7.441		
2,100.00	2,100.00	2,096.29	2,094.16	5.74	6.03	167.72	-88.40	19.24	90.65	78.96	11.69	7.754		
2,200.00	2,200.00	2,196.05	2,193.68	5.88	6.26	166.13	-94.10	23.24	97.13	85.06	12.07	8.047		
2,300.00	2,300.00	2,295.81	2,293.19	6.03	6.51	164.74	-99.80	27.23	103.67	91.21	12.46	8.321		
2,347.00	2,347.00	2,342.69	2,339.96	6.07	6.63	164.15	-102.48	29.10	106.76	94.15	12.61	8.466		
2,350.00	2,350.00	2,345.68	2,342.95	6.07	6.64	164.11	-102.65	29.22	106.96	94.34	12.62	8.476		
2,400.00	2,399.95	2,395.54	2,392.68	6.28	6.76	164.52	-105.50	31.22	110.56	97.72	12.85	8.607		
2,450.00	2,449.65	2,445.18	2,442.20	6.43	6.90	166.62	-108.33	33.20	114.81	101.82	12.99	8.838		
2,500.00	2,498.84	2,494.36	2,491.26	6.58	7.03	170.19	-111.14	35.17	120.02	106.89	13.13	9.144		
2,550.00	2,547.29	2,542.84	2,539.63	6.73	7.16	174.92	-113.91	37.11	126.72	113.46	13.26	9.559		
2,600.00	2,594.77	2,590.39	2,587.06	6.89	7.29	-179.55	-116.63	39.01	135.54	122.15	13.39	10.124		
2,650.00	2,641.04	2,636.78	2,633.34	7.06	7.42	-173.61	-119.28	40.87	147.08	133.55	13.54	10.865		
2,700.00	2,685.88	2,681.78	2,678.22	7.22	7.55	-167.64	-121.85	42.67	161.80	148.10	13.70	11.808		
2,750.00	2,729.07	2,722.46	2,718.79	7.39	7.69	-161.97	-124.36	44.42	180.15	166.27	13.87	12.984		
2,800.00	2,770.39	2,758.59	2,754.66	7.55	7.83	-157.13	-127.90	46.90	202.98	188.94	14.04	14.454		
2,850.00	2,809.66	2,792.95	2,788.53	7.72	7.99	-153.15	-132.64	50.22	229.92	215.69	14.23	16.160		
2,900.00	2,846.67	2,825.33	2,820.15	7.88	8.14	-149.91	-138.32	54.20	260.41	245.98	14.42	18.056		
2,950.00	2,881.24	2,855.56	2,849.37	8.03	8.28	-147.24	-144.67	58.65	293.98	279.36	14.62	20.106		
3,000.00	2,913.21	2,883.52	2,876.08	8.18	8.42	-145.00	-151.44	63.39	330.22	315.40	14.83	22.272		
3,034.50	2,933.67	2,900.00	2,891.66	8.37	8.50	-143.56	-155.83	66.46	356.61	341.66	14.95	23.855		
3,100.00	2,971.24	2,934.25	2,923.63	9.07	8.67	-141.58	-165.88	73.50	408.19	392.97	15.21	26.828		
3,200.00	3,028.60	2,983.43	2,968.43	10.29	8.91	-139.54	-182.48	85.12	488.47	472.83	15.63	31.250		
3,234.50	3,048.39	3,000.00	2,983.20	10.72	8.99	-139.04	-188.64	89.43	516.49	500.71	15.78	32.739		
3,250.00	3,057.11	3,007.40	2,989.74	10.92	9.03	-138.84	-191.48	91.42	529.19	513.34	15.85	33.390		
3,300.00	3,082.91	3,029.50	3,009.05	11.62	9.13	-138.06	-200.28	97.59	571.10	555.00	16.10	35.482		
3,350.00	3,104.99	3,050.00	3,026.65	12.40	9.23	-137.20	-208.88	103.61	614.21	597.87	16.34	37.582		
3,400.00	3,123.17	3,066.89	3,040.92	13.23	9.31	-136.19	-216.28	108.79	658.23	641.66	16.58	39.708		
3,450.00	3,137.33	3,082.27	3,053.74	14.12	9.39	-135.15	-223.25	113.67	702.89	686.09	16.81	41.826		
3,500.00	3,147.36	3,095.49	3,064.60	15.06	9.45	-134.06	-229.42	117.99	747.93	730.91	17.02	43.950		
3,550.00	3,153.17	3,106.54	3,073.57	16.02	9.50	-132.94	-234.70	121.69	793.10	775.88	17.22	46.063		
3,577.89	3,154.56	3,111.75	3,077.77	16.57	9.53	-132.30	-237.24	123.46	818.27	800.95	17.32	47.245		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,600.00	3,155.14	3,115.68	3,080.92	17.01	9.54	-131.80	-239.16	124.81	838.21	820.81	17.40	48.177		
3,700.00	3,157.77	3,135.17	3,096.34	19.06	9.64	-129.79	-248.91	131.64	928.51	910.71	17.80	52.163		
3,800.00	3,160.41	3,157.78	3,113.83	21.16	9.74	-128.10	-260.66	139.86	1,018.77	1,000.52	18.25	55.814		
3,900.00	3,163.05	3,184.01	3,133.53	23.29	9.85	-126.67	-274.84	149.79	1,108.73	1,089.94	18.79	59.022		
4,000.00	3,165.70	3,214.40	3,155.55	25.44	9.99	-125.49	-291.99	161.80	1,198.13	1,178.72	19.41	61.712		
4,100.00	3,168.35	3,249.63	3,179.93	27.62	10.13	-124.53	-312.82	176.39	1,286.77	1,266.60	20.17	63.800		
4,200.00	3,171.00	3,290.45	3,206.59	29.80	10.30	-123.79	-338.14	194.12	1,374.40	1,353.30	21.10	65.126		
4,300.00	3,173.64	4,379.00	3,498.85	32.00	26.05	-161.90	-907.20	997.97	1,446.02	1,394.89	51.13	28.280		
4,400.00	3,176.28	4,568.76	3,503.93	34.19	29.99	-165.70	-959.00	1,180.42	1,474.99	1,417.30	57.69	25.567		
4,442.09	3,177.38	4,651.32	3,506.15	35.11	31.72	-167.35	-977.74	1,260.80	1,484.33	1,423.83	60.50	24.534		
4,500.00	3,178.90	4,766.79	3,509.24	36.38	34.15	-169.66	-1,000.05	1,374.04	1,494.87	1,430.49	64.38	23.221		
4,600.00	3,181.53	4,969.71	3,514.66	38.58	38.42	-173.73	-1,028.12	1,574.89	1,507.72	1,436.72	71.01	21.234		
4,700.00	3,184.15	5,175.45	3,520.10	40.80	42.73	-177.85	-1,042.00	1,780.04	1,513.65	1,436.23	77.42	19.552		
4,800.00	3,186.77	5,319.85	3,523.87	43.03	45.72	-179.57	-1,043.52	1,924.38	1,513.75	1,431.19	82.55	18.336		
4,900.00	3,189.40	5,419.84	3,526.48	45.27	47.81	-179.57	-1,043.68	2,024.34	1,513.23	1,426.26	86.98	17.398		
5,000.00	3,192.02	5,519.84	3,529.09	47.52	49.92	-179.57	-1,043.84	2,124.30	1,512.72	1,421.31	91.41	16.548		
5,100.00	3,194.65	5,619.84	3,531.70	49.78	52.05	-179.57	-1,044.00	2,224.27	1,512.21	1,416.35	95.86	15.775		
5,200.00	3,197.27	5,719.84	3,534.31	52.04	54.20	-179.57	-1,044.16	2,324.23	1,511.69	1,411.38	100.32	15.069		
5,300.00	3,199.89	5,819.84	3,536.92	54.31	56.36	-179.57	-1,044.31	2,424.20	1,511.18	1,406.40	104.79	14.422		
5,400.00	3,202.52	5,919.84	3,539.53	56.59	58.53	-179.57	-1,044.47	2,524.16	1,510.67	1,401.41	109.26	13.826		
5,500.00	3,205.14	6,019.84	3,542.13	58.87	60.72	-179.57	-1,044.63	2,624.13	1,510.16	1,396.41	113.74	13.277		
5,600.00	3,207.76	6,119.83	3,544.74	61.15	62.91	-179.57	-1,044.79	2,724.09	1,509.64	1,391.41	118.23	12.769		
5,700.00	3,210.39	6,219.83	3,547.35	63.44	65.12	-179.57	-1,044.94	2,824.06	1,509.13	1,386.41	122.73	12.297		
5,800.00	3,213.01	6,319.83	3,549.96	65.73	67.33	-179.57	-1,045.10	2,924.02	1,508.62	1,381.39	127.22	11.858		
5,900.00	3,215.64	6,419.83	3,552.57	68.02	69.55	-179.57	-1,045.26	3,023.99	1,508.11	1,376.38	131.73	11.449		
6,000.00	3,218.26	6,519.83	3,555.18	70.32	71.78	-179.57	-1,045.42	3,123.95	1,507.59	1,371.36	136.24	11.066		
6,100.00	3,220.88	6,619.83	3,557.79	72.62	74.01	-179.57	-1,045.58	3,223.91	1,507.08	1,366.34	140.75	10.708		
6,200.00	3,223.51	6,719.83	3,560.40	74.92	76.25	-179.57	-1,045.73	3,323.88	1,506.57	1,361.31	145.26	10.372		
6,300.00	3,226.13	6,819.82	3,563.01	77.22	78.50	-179.57	-1,045.89	3,423.84	1,506.06	1,356.28	149.78	10.055		
6,400.00	3,228.75	6,919.82	3,565.62	79.53	80.75	-179.57	-1,046.05	3,523.81	1,505.54	1,351.25	154.30	9.757		
6,500.00	3,231.38	7,019.82	3,568.23	81.84	83.00	-179.57	-1,046.21	3,623.77	1,505.03	1,346.21	158.82	9.476		
6,600.00	3,234.00	7,119.82	3,570.84	84.14	85.26	-179.57	-1,046.36	3,723.74	1,504.52	1,341.18	163.34	9.211		
6,700.00	3,236.63	7,219.82	3,573.45	86.45	87.53	-179.57	-1,046.52	3,823.70	1,504.01	1,336.14	167.87	8.959		
6,800.00	3,239.25	7,319.82	3,576.05	88.76	89.79	-179.57	-1,046.68	3,923.67	1,503.49	1,331.10	172.40	8.721		
6,900.00	3,241.87	7,419.82	3,578.66	91.08	92.06	-179.57	-1,046.84	4,023.63	1,502.98	1,326.05	176.93	8.495		
7,000.00	3,244.50	7,519.82	3,581.27	93.39	94.34	-179.57	-1,047.00	4,123.59	1,502.47	1,321.01	181.46	8.280		
7,100.00	3,247.12	7,619.81	3,583.88	95.70	96.61	-179.57	-1,047.15	4,223.56	1,501.96	1,315.97	185.99	8.075		
7,200.00	3,249.75	7,719.81	3,586.49	98.02	98.89	-179.57	-1,047.31	4,323.52	1,501.44	1,310.92	190.52	7.881		
7,300.00	3,252.37	7,819.81	3,589.10	100.34	101.17	-179.57	-1,047.47	4,423.49	1,500.93	1,305.87	195.06	7.695		
7,400.00	3,254.99	7,919.81	3,591.71	102.65	103.46	-179.57	-1,047.63	4,523.45	1,500.42	1,300.82	199.60	7.517		
7,500.00	3,257.62	8,019.81	3,594.32	104.97	105.74	-179.57	-1,047.78	4,623.42	1,499.91	1,295.77	204.13	7.348		
7,600.00	3,260.24	8,119.81	3,596.93	107.29	108.03	-179.56	-1,047.94	4,723.38	1,499.39	1,290.72	208.67	7.185		
7,700.00	3,262.86	8,219.81	3,599.54	109.61	110.32	-179.56	-1,048.10	4,823.35	1,498.88	1,285.67	213.21	7.030		
7,800.00	3,265.49	8,319.80	3,602.15	111.93	112.61	-179.56	-1,048.26	4,923.31	1,498.37	1,280.62	217.75	6.881		
7,900.00	3,268.11	8,419.80	3,604.76	114.25	114.90	-179.56	-1,048.42	5,023.27	1,497.86	1,275.56	222.29	6.738		
8,000.00	3,270.74	8,519.80	3,607.36	116.57	117.20	-179.56	-1,048.57	5,123.24	1,497.34	1,270.51	226.83	6.601		
8,100.00	3,273.36	8,619.80	3,609.97	118.89	119.50	-179.56	-1,048.73	5,223.20	1,496.83	1,265.46	231.37	6.469		
8,200.00	3,275.98	8,719.80	3,612.58	121.21	121.79	-179.56	-1,048.89	5,323.17	1,496.32	1,260.40	235.92	6.343		
8,300.00	3,278.61	8,819.80	3,615.19	123.54	124.09	-179.56	-1,049.05	5,423.13	1,495.81	1,255.35	240.46	6.221		
8,400.00	3,281.23	8,919.80	3,617.80	125.86	126.39	-179.56	-1,049.20	5,523.10	1,495.29	1,250.29	245.00	6.103		
8,500.00	3,283.85	9,019.79	3,620.41	128.18	128.69	-179.56	-1,049.36	5,623.06	1,494.78	1,245.23	249.55	5.990		
8,600.00	3,286.48	9,119.79	3,623.02	130.51	131.00	-179.56	-1,049.52	5,723.03	1,494.27	1,240.18	254.09	5.881		

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



Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Aggie - The Aggie 3H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	3,289.10	9,219.79	3,625.63	132.83	133.30	-179.56	-1,049.68	5,822.99	1,493.76	1,235.12	258.64	5.775		
8,800.00	3,291.73	9,319.79	3,628.24	135.15	135.61	-179.56	-1,049.84	5,922.95	1,493.24	1,230.06	263.18	5.674		
8,900.00	3,294.35	9,419.79	3,630.85	137.48	137.91	-179.56	-1,049.99	6,022.92	1,492.73	1,225.00	267.73	5.576		
8,909.54	3,294.60	9,421.68	3,630.90	137.70	137.97	-179.26	-1,050.00	6,024.81	1,492.70	1,224.67	268.03	5.569		
9,000.00	3,296.97	9,421.68	3,630.90	139.80	137.97	-175.71	-1,050.00	6,024.81	1,495.44	1,225.31	270.13	5.536		
9,001.40	3,297.01	9,421.68	3,630.90	139.84	137.97	-175.65	-1,050.00	6,024.81	1,495.53	1,225.37	270.16	5.536 SF		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 1H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	88.79	33.94	1,608.89	1,609.25					
100.00	100.00	100.00	100.00	0.92	0.92	88.79	33.94	1,608.89	1,609.25	1,607.40	1.85	870.617		
200.00	200.00	200.00	200.00	1.53	1.53	88.79	33.94	1,608.89	1,609.25	1,606.20	3.05	527.182		
300.00	300.00	300.00	300.00	1.95	1.95	88.79	33.94	1,608.89	1,609.25	1,605.34	3.91	411.779		
400.00	400.00	400.00	400.00	2.31	2.31	88.79	33.94	1,608.89	1,609.25	1,604.64	4.61	348.843		
500.00	500.00	500.00	500.00	2.61	2.61	88.79	33.94	1,608.89	1,609.25	1,604.02	5.23	307.758		
600.00	600.00	600.00	600.00	2.89	2.89	88.79	33.94	1,608.89	1,609.25	1,603.47	5.78	278.217		
700.00	700.00	700.00	700.00	3.15	3.15	88.79	33.94	1,608.89	1,609.25	1,602.95	6.29	255.649		
800.00	800.00	800.00	800.00	3.39	3.39	88.79	33.94	1,608.89	1,609.25	1,602.48	6.77	237.672		
900.00	900.00	900.00	900.00	3.61	3.61	88.79	33.94	1,608.89	1,609.25	1,602.03	7.22	222.908		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	88.79	33.94	1,608.89	1,609.25	1,601.60	7.65	210.496		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	88.79	33.94	1,608.89	1,609.25	1,601.20	8.05	199.869		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	88.79	33.94	1,608.89	1,609.25	1,600.81	8.44	190.633		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	88.79	33.94	1,608.89	1,609.25	1,600.43	8.82	182.507		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	88.79	33.94	1,608.89	1,609.25	1,600.07	9.18	175.283		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	88.79	33.94	1,608.89	1,609.25	1,599.72	9.53	168.805		
1,600.00	1,600.00	1,636.98	1,636.93	4.94	5.14	88.69	36.77	1,607.25	1,608.10	1,598.13	9.97	161.358		
1,700.00	1,700.00	1,753.74	1,753.45	5.10	5.42	88.46	43.23	1,603.53	1,605.00	1,594.66	10.34	155.221		
1,800.00	1,800.00	1,853.50	1,852.96	5.27	5.63	88.24	49.25	1,600.05	1,601.68	1,591.01	10.67	150.089		
1,900.00	1,900.00	1,953.25	1,952.47	5.43	5.85	88.02	55.28	1,596.57	1,598.39	1,587.39	11.00	145.289		
2,000.00	2,000.00	2,053.01	2,051.99	5.58	6.08	87.80	61.31	1,593.09	1,595.12	1,583.79	11.33	140.793		
2,100.00	2,100.00	4,963.09	3,376.11	5.74	39.26	-2.24	923.84	-36.15	1,575.83	1,549.01	26.82	58.763		
2,200.00	2,200.00	4,960.47	3,376.18	5.88	39.20	-2.08	923.85	-33.54	1,496.00	1,468.18	27.81	53.785		
2,300.00	2,300.00	4,957.86	3,376.25	6.03	39.15	-1.92	923.85	-30.93	1,418.72	1,389.80	28.92	49.056		
2,347.00	2,347.00	4,956.63	3,376.28	6.07	39.12	-1.84	923.86	-29.70	1,383.40	1,353.95	29.46	46.960		
2,350.00	2,350.00	4,956.55	3,376.28	6.07	39.12	-1.84	923.86	-29.61	1,381.17	1,351.68	29.49	46.829		
2,400.00	2,399.95	4,953.47	3,376.36	6.28	39.06	-1.76	923.87	-26.54	1,343.94	1,313.83	30.11	44.637		
2,450.00	2,449.65	4,947.24	3,376.52	6.43	38.93	-1.68	923.89	-20.31	1,306.76	1,276.13	30.64	42.655		
2,500.00	2,498.84	4,937.89	3,376.77	6.58	38.74	-1.61	923.91	-10.96	1,269.79	1,238.68	31.11	40.820		
2,550.00	2,547.29	4,925.47	3,377.09	6.73	38.49	-1.54	923.95	1.45	1,233.16	1,201.64	31.52	39.125		
2,600.00	2,594.77	4,910.03	3,377.50	6.89	38.17	-1.47	924.00	16.89	1,196.99	1,165.12	31.87	37.561		
2,650.00	2,641.04	4,891.66	3,377.98	7.06	37.80	-1.40	924.05	35.26	1,161.39	1,129.23	32.16	36.118		
2,700.00	2,685.88	4,870.43	3,378.53	7.22	37.37	-1.34	924.12	56.47	1,126.46	1,094.07	32.38	34.784		
2,750.00	2,729.07	4,845.26	3,379.19	7.39	36.86	-1.20	924.19	81.63	1,092.27	1,059.72	32.55	33.558		
2,800.00	2,770.39	4,807.22	3,380.18	7.55	36.10	-0.39	924.00	119.66	1,058.72	1,026.10	32.61	32.462		
2,850.00	2,809.66	4,766.12	3,381.26	7.72	35.26	0.48	923.23	160.74	1,025.67	993.05	32.62	31.445		
2,900.00	2,846.67	4,722.33	3,382.41	7.88	34.37	1.40	921.75	204.49	993.08	960.51	32.57	30.494		
2,950.00	2,881.24	4,676.20	3,383.63	8.03	33.44	2.36	919.48	250.55	960.88	928.41	32.47	29.594		
3,000.00	2,913.21	4,628.11	3,384.90	8.18	32.46	3.36	916.32	298.52	929.01	896.68	32.33	28.735		
3,034.50	2,933.67	4,593.99	3,385.80	8.37	31.77	4.06	913.59	332.52	907.19	874.98	32.21	28.167		
3,100.00	2,971.24	4,529.42	3,387.50	9.07	30.47	5.39	907.31	396.76	865.59	833.58	32.01	27.044		
3,200.00	3,028.60	4,434.08	3,390.02	10.29	28.55	7.37	895.40	491.31	801.10	769.28	31.83	25.172		
3,234.50	3,048.39	4,402.09	3,390.87	10.72	27.91	8.03	890.70	522.94	778.62	746.84	31.78	24.501		
3,250.00	3,057.11	4,387.71	3,391.25	10.92	27.62	8.33	888.48	537.14	768.54	736.78	31.76	24.198		
3,300.00	3,082.91	4,339.93	3,392.52	11.62	26.67	9.31	880.56	584.24	736.63	704.96	31.67	23.259		
3,350.00	3,104.99	4,290.41	3,393.83	12.40	25.68	10.33	871.53	632.92	705.66	674.14	31.52	22.387		
3,400.00	3,123.17	4,239.60	3,395.17	13.23	24.68	11.36	861.39	682.69	675.66	644.34	31.32	21.570		
3,450.00	3,137.33	4,187.96	3,396.53	14.12	23.68	12.39	850.18	733.07	646.71	615.65	31.06	20.820		
3,500.00	3,147.36	4,135.93	3,397.91	15.06	22.67	13.43	837.98	783.63	618.95	588.21	30.74	20.135		
3,550.00	3,153.17	4,083.93	3,399.28	16.02	21.68	14.45	824.86	833.93	592.62	562.28	30.34	19.533		
3,577.89	3,154.56	4,055.09	3,400.03	16.57	21.13	15.01	817.19	861.73	578.67	548.60	30.08	19.240		
3,600.00	3,155.14	4,032.34	3,400.63	17.01	20.71	15.45	810.94	883.59	567.87	538.02	29.85	19.023		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 1H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,700.00	3,157.77	3,743.93	3,375.74	19.06	15.47	40.43	697.86	1,145.00	513.41	489.19	24.22	21.197		
3,800.00	3,160.41	3,485.64	3,272.42	21.16	11.46	65.61	537.15	1,315.40	426.34	406.95	19.39	21.988		
3,900.00	3,163.05	3,429.69	3,241.77	23.29	11.00	69.86	497.99	1,340.97	331.42	312.60	18.83	17.605		
4,000.00	3,165.70	3,402.47	3,226.16	25.44	10.91	70.72	478.68	1,352.12	235.45	217.03	18.42	12.783		
4,100.00	3,168.35	3,372.60	3,209.03	27.62	10.81	72.24	457.49	1,364.35	140.34	122.41	17.93	7.826		
4,200.00	3,171.00	3,340.10	3,190.39	29.80	10.71	78.60	434.44	1,377.66	46.77	29.29	17.48	2.676		
4,248.50	3,172.28	3,323.41	3,180.81	30.86	10.66	178.39	422.59	1,384.50	10.90	-19.75	30.65	0.356	Level 1, CC, ES, SF	
4,300.00	3,173.64	3,305.02	3,170.27	32.00	10.61	-117.24	409.55	1,392.03	49.26	28.86	20.40	2.415		
4,400.00	3,176.28	3,267.40	3,148.69	34.19	10.50	-111.97	382.86	1,407.44	140.97	122.64	18.34	7.688		
4,442.09	3,177.38	3,250.82	3,139.18	35.11	10.46	-111.23	371.10	1,414.23	179.50	161.44	18.06	9.941		
4,500.00	3,178.90	3,227.96	3,126.06	36.38	10.39	-110.51	354.89	1,423.59	232.46	214.66	17.80	13.059		
4,600.00	3,181.53	3,192.90	3,105.14	38.58	10.27	-109.07	330.52	1,437.66	324.35	306.88	17.46	18.572		
4,700.00	3,184.15	3,160.59	3,084.66	40.80	10.14	-107.83	308.88	1,450.16	416.88	399.67	17.21	24.221		
4,800.00	3,186.77	3,130.83	3,064.83	43.03	10.03	-106.72	289.67	1,461.25	510.00	492.98	17.02	29.969		
4,900.00	3,189.40	3,100.00	3,043.32	45.27	9.90	-105.95	270.54	1,472.29	603.67	586.78	16.89	35.750		
5,000.00	3,192.02	3,078.17	3,027.53	47.52	9.81	-104.81	257.49	1,479.82	697.79	681.05	16.74	41.680		
5,100.00	3,194.65	3,050.00	3,006.49	49.78	9.68	-104.20	241.28	1,489.18	792.40	775.73	16.67	47.542		
5,200.00	3,197.27	3,033.41	2,993.75	52.04	9.61	-103.21	232.06	1,494.50	887.36	870.79	16.57	53.551		
5,300.00	3,199.89	3,013.54	2,978.19	54.31	9.52	-102.51	221.38	1,500.67	982.71	966.20	16.51	59.512		
5,400.00	3,202.52	3,000.00	2,967.38	56.59	9.46	-101.72	214.31	1,504.76	1,078.41	1,061.96	16.45	65.540		
5,500.00	3,205.14	2,978.11	2,949.59	58.87	9.36	-101.28	203.26	1,511.14	1,174.38	1,157.94	16.44	71.428		
5,600.00	3,207.76	2,962.27	2,936.49	61.15	9.28	-100.73	195.56	1,515.58	1,270.64	1,254.22	16.42	77.376		
5,700.00	3,210.39	2,950.00	2,926.20	63.44	9.22	-100.18	189.77	1,518.92	1,367.15	1,350.74	16.41	83.335		
5,800.00	3,213.01	2,933.82	2,912.46	65.73	9.15	-99.77	182.36	1,523.20	1,463.88	1,447.47	16.41	89.200		
5,900.00	3,215.64	2,921.00	2,901.44	68.02	9.09	-99.33	176.69	1,526.47	1,560.82	1,544.41	16.42	95.071		
6,000.00	3,218.26	2,900.00	2,883.14	70.32	8.99	-99.08	167.77	1,531.62	1,658.00	1,641.57	16.44	100.875		
6,100.00	3,220.88	2,900.00	2,883.14	72.62	8.99	-98.53	167.77	1,531.62	1,755.27	1,738.82	16.44	106.745		
6,200.00	3,223.51	2,900.00	2,883.14	74.92	8.99	-98.04	167.77	1,531.62	1,852.82	1,836.35	16.47	112.526		
6,300.00	3,226.13	2,877.39	2,863.11	77.22	8.88	-97.90	158.69	1,536.87	1,950.34	1,933.84	16.50	118.211		
6,400.00	3,228.75	2,868.08	2,854.77	79.53	8.83	-97.60	155.11	1,538.93	2,048.09	2,031.56	16.53	123.896		
6,500.00	3,231.38	2,850.00	2,838.42	81.84	8.74	-97.41	148.43	1,542.79	2,146.01	2,129.44	16.57	129.543		
6,600.00	3,234.00	2,850.00	2,838.42	84.14	8.74	-97.06	148.43	1,542.79	2,243.95	2,227.34	16.60	135.149		
6,700.00	3,236.63	2,850.00	2,838.42	86.45	8.74	-96.74	148.43	1,542.79	2,342.06	2,325.41	16.65	140.681		
6,800.00	3,239.25	2,850.00	2,838.42	88.76	8.74	-96.44	148.43	1,542.79	2,440.33	2,423.63	16.70	146.140		
6,900.00	3,241.87	2,828.81	2,819.01	91.08	8.64	-96.35	141.06	1,547.04	2,538.51	2,521.77	16.74	151.622		
7,000.00	3,244.50	2,822.16	2,812.87	93.39	8.61	-96.14	138.85	1,548.32	2,636.88	2,620.08	16.79	157.019		
7,100.00	3,247.12	2,815.84	2,807.02	95.70	8.58	-95.95	136.80	1,549.51	2,735.32	2,718.47	16.85	162.368		
7,200.00	3,249.75	2,800.00	2,792.24	98.02	8.50	-95.83	131.84	1,552.37	2,833.89	2,816.99	16.90	167.726		
7,300.00	3,252.37	2,800.00	2,792.24	100.34	8.50	-95.61	131.84	1,552.37	2,932.43	2,915.48	16.96	172.948		
7,400.00	3,254.99	2,800.00	2,792.24	102.65	8.50	-95.41	131.84	1,552.37	3,031.08	3,014.06	17.02	178.105		
7,500.00	3,257.62	2,800.00	2,792.24	104.97	8.50	-95.23	131.84	1,552.37	3,129.81	3,112.72	17.08	183.198		
7,600.00	3,260.24	2,800.00	2,792.24	107.29	8.50	-95.05	131.84	1,552.37	3,228.61	3,211.46	17.15	188.228		
7,700.00	3,262.86	2,800.00	2,792.24	109.61	8.50	-94.89	131.84	1,552.37	3,327.49	3,310.27	17.22	193.196		
7,800.00	3,265.49	2,779.24	2,772.70	111.93	8.40	-94.84	125.78	1,555.87	3,426.24	3,408.96	17.28	198.322		
7,900.00	3,268.11	2,774.90	2,768.59	114.25	8.38	-94.71	124.58	1,556.56	3,525.16	3,507.81	17.34	203.245		
8,000.00	3,270.74	2,770.74	2,764.64	116.57	8.36	-94.59	123.44	1,557.22	3,624.11	3,606.70	17.41	208.115		
8,100.00	3,273.36	2,750.00	2,744.85	118.89	8.26	-94.54	118.08	1,560.31	3,723.24	3,705.77	17.47	213.120		
8,200.00	3,275.98	2,750.00	2,744.85	121.21	8.26	-94.41	118.08	1,560.31	3,822.23	3,804.68	17.54	217.857		
8,300.00	3,278.61	2,750.00	2,744.85	123.54	8.26	-94.29	118.08	1,560.31	3,921.26	3,903.64	17.62	222.535		
8,400.00	3,281.23	2,750.00	2,744.85	125.86	8.26	-94.17	118.08	1,560.31	4,020.35	4,002.65	17.70	227.155		
8,500.00	3,283.85	2,750.00	2,744.85	128.18	8.26	-94.06	118.08	1,560.31	4,119.48	4,101.70	17.78	231.719		
8,600.00	3,286.48	2,750.00	2,744.85	130.51	8.26	-93.95	118.08	1,560.31	4,218.65	4,200.79	17.86	236.227		

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



Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 1H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	3,289.10	2,750.00	2,744.85	132.83	8.26	-93.85	118.08	1,560.31	4,317.86	4,299.92	17.94	240.679		
8,800.00	3,291.73	2,750.00	2,744.85	135.15	8.26	-93.75	118.08	1,560.31	4,417.11	4,399.08	18.02	245.077		
8,900.00	3,294.35	2,750.00	2,744.85	137.48	8.26	-93.66	118.08	1,560.31	4,516.38	4,498.28	18.11	249.421		
9,000.00	3,296.97	2,750.00	2,744.85	139.80	8.26	-93.57	118.08	1,560.31	4,615.69	4,597.50	18.19	253.711		
9,001.40	3,297.01	2,750.00	2,744.85	139.84	8.26	-93.57	118.08	1,560.31	4,617.08	4,598.89	18.19	253.770		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 2H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.57	-15.91	1,608.90	1,608.97					
100.00	100.00	100.00	100.00	0.92	0.92	90.57	-15.91	1,608.90	1,608.97	1,607.13	1.85	870.468		
200.00	200.00	200.00	200.00	1.53	1.53	90.57	-15.91	1,608.90	1,608.97	1,605.92	3.05	527.092		
300.00	300.00	300.00	300.00	1.95	1.95	90.57	-15.91	1,608.90	1,608.97	1,605.07	3.91	411.709		
400.00	400.00	400.00	400.00	2.31	2.31	90.57	-15.91	1,608.90	1,608.97	1,604.36	4.61	348.784		
500.00	500.00	500.00	500.00	2.61	2.61	90.57	-15.91	1,608.90	1,608.97	1,603.75	5.23	307.705		
600.00	600.00	600.00	600.00	2.89	2.89	90.57	-15.91	1,608.90	1,608.97	1,603.19	5.78	278.170		
700.00	700.00	700.00	700.00	3.15	3.15	90.57	-15.91	1,608.90	1,608.97	1,602.68	6.29	255.605		
800.00	800.00	800.00	800.00	3.39	3.39	90.57	-15.91	1,608.90	1,608.97	1,602.20	6.77	237.631		
900.00	900.00	900.00	900.00	3.61	3.61	90.57	-15.91	1,608.90	1,608.97	1,601.76	7.22	222.870		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	90.57	-15.91	1,608.90	1,608.97	1,601.33	7.65	210.460		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	90.57	-15.91	1,608.90	1,608.97	1,600.92	8.05	199.835		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	90.57	-15.91	1,608.90	1,608.97	1,600.53	8.44	190.600		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	90.57	-15.91	1,608.90	1,608.97	1,600.16	8.82	182.475		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	90.57	-15.91	1,608.90	1,608.97	1,599.79	9.18	175.253		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	90.57	-15.91	1,608.90	1,608.97	1,599.44	9.53	168.776		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	90.57	-15.91	1,608.90	1,608.97	1,599.10	9.88	162.923		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	90.57	-15.91	1,608.90	1,608.97	1,598.77	10.21	157.600		
1,800.00	1,800.00	4,696.00	3,388.04	5.27	36.50	-138.71	-47.31	-41.54	1,589.29	1,572.38	16.91	93.996		
1,900.00	1,900.00	4,693.37	3,388.11	5.43	36.44	-140.55	-47.30	-38.92	1,489.37	1,472.39	16.98	87.721		
2,000.00	2,000.00	4,690.75	3,388.18	5.58	36.38	-142.50	-47.29	-36.29	1,389.46	1,372.41	17.05	81.477		
2,100.00	2,100.00	4,688.13	3,388.25	5.74	36.32	-144.54	-47.28	-33.67	1,289.56	1,272.43	17.13	75.267		
2,200.00	2,200.00	4,685.50	3,388.32	5.88	36.26	-146.71	-47.28	-31.05	1,189.67	1,172.45	17.22	69.094		
2,300.00	2,300.00	4,682.88	3,388.39	6.03	36.20	-148.98	-47.27	-28.43	1,089.79	1,072.48	17.31	62.961		
2,347.00	2,347.00	4,681.65	3,388.42	6.07	36.17	-150.09	-47.26	-27.19	1,042.85	1,025.49	17.35	60.093		
2,350.00	2,350.00	4,681.56	3,388.42	6.07	36.17	-150.16	-47.26	-27.11	1,039.85	1,022.50	17.36	59.911		
2,400.00	2,399.95	4,678.48	3,388.50	6.28	36.10	-151.78	-47.25	-24.03	990.06	972.66	17.40	56.912		
2,450.00	2,449.65	4,672.24	3,388.67	6.43	35.96	-154.06	-47.24	-17.79	940.69	923.27	17.42	54.001		
2,500.00	2,498.84	4,662.89	3,388.91	6.58	35.75	-156.78	-47.21	-8.44	892.02	874.58	17.44	51.162		
2,550.00	2,547.29	4,650.46	3,389.24	6.73	35.47	-159.70	-47.17	3.98	844.31	826.86	17.45	48.383		
2,600.00	2,594.77	4,635.02	3,389.64	6.89	35.12	-162.57	-47.12	19.41	797.86	780.38	17.48	45.652		
2,650.00	2,641.04	4,616.64	3,390.13	7.06	34.70	-165.23	-47.07	37.79	752.96	735.43	17.53	42.955		
2,700.00	2,685.88	4,595.41	3,390.68	7.22	34.22	-167.60	-47.01	59.01	709.91	692.29	17.62	40.279		
2,750.00	2,729.07	4,571.44	3,391.31	7.39	33.67	-169.65	-46.93	82.98	669.05	651.26	17.79	37.616		
2,800.00	2,770.39	4,544.84	3,392.01	7.55	33.07	-171.37	-46.85	109.57	630.69	612.66	18.03	34.973		
2,850.00	2,809.66	4,515.73	3,392.77	7.72	32.41	-172.80	-46.77	138.66	595.20	576.81	18.39	32.363		
2,900.00	2,846.67	4,484.28	3,393.60	7.88	31.70	-173.99	-46.67	170.11	562.93	544.05	18.88	29.817		
2,950.00	2,881.24	4,450.61	3,394.48	8.03	30.94	-174.96	-46.57	203.76	534.22	514.71	19.51	27.379		
3,000.00	2,913.21	4,414.91	3,395.42	8.18	30.14	-175.75	-46.46	239.45	509.41	489.12	20.29	25.110		
3,034.50	2,933.67	4,389.17	3,396.10	8.37	29.56	-176.21	-46.39	265.18	494.72	473.87	20.85	23.723		
3,100.00	2,971.24	4,339.51	3,397.40	9.07	28.45	-176.94	-46.24	314.82	470.02	447.92	22.10	21.268		
3,200.00	3,028.60	4,263.69	3,399.39	10.29	26.76	-177.77	-46.01	390.62	437.68	413.26	24.41	17.927		
3,234.50	3,048.39	4,237.53	3,400.07	10.72	26.17	-178.01	-45.93	416.77	428.26	402.98	25.28	16.941		
3,250.00	3,057.11	4,225.65	3,400.39	10.92	25.91	-178.10	-45.90	428.64	424.49	398.82	25.67	16.537		
3,300.00	3,082.91	4,185.77	3,401.43	11.62	25.03	-178.38	-45.78	468.51	415.53	388.58	26.95	15.418		
3,350.00	3,104.99	4,143.72	3,402.54	12.40	24.10	-178.60	-45.65	510.54	411.23	383.15	28.08	14.644		
3,375.68	3,114.82	4,121.38	3,403.12	12.83	23.61	-178.69	-45.59	532.87	410.69	382.10	28.59	14.363	CC, ES	
3,400.00	3,123.17	4,099.82	3,403.69	13.23	23.13	-178.77	-45.52	554.43	411.15	382.13	29.02	14.166		
3,450.00	3,137.33	4,054.41	3,404.88	14.12	22.15	-178.90	-45.39	599.83	414.77	385.00	29.77	13.932		
3,500.00	3,147.36	4,007.82	3,406.10	15.06	21.14	-179.00	-45.25	646.40	421.53	391.20	30.32	13.902		
3,550.00	3,153.17	3,960.42	3,407.34	16.02	20.12	-179.07	-45.10	693.78	430.90	400.20	30.70	14.034		
3,577.89	3,154.56	3,933.76	3,408.04	16.57	19.55	-179.10	-45.02	720.43	437.11	406.27	30.84	14.175		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 2H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
3,600.00	3,155.14	3,912.56	3,408.60	17.01	19.10	-179.12	-44.96	741.62	442.22	411.31	30.92	14.303		
3,700.00	3,157.77	3,777.57	3,406.48	19.06	16.31	175.15	-44.23	876.45	462.25	431.12	31.12	14.852		
3,800.00	3,160.41	3,606.00	3,361.91	21.16	13.07	166.14	-40.88	1,041.43	466.19	434.40	31.79	14.665		
3,900.00	3,163.05	3,477.51	3,297.79	23.29	11.13	164.98	-36.64	1,152.41	458.98	425.67	33.31	13.777		
4,000.00	3,165.70	3,397.74	3,252.04	25.44	10.06	169.58	-33.67	1,217.69	452.86	417.94	34.92	12.900		
4,086.08	3,167.98	3,328.83	3,212.51	27.31	9.21	173.42	-31.11	1,274.08	451.20	415.18	36.02	12.526		
4,100.00	3,168.35	3,317.67	3,206.11	27.62	9.07	174.03	-30.70	1,283.21	451.24	415.08	36.17	12.477		
4,200.00	3,171.00	3,238.52	3,159.07	29.80	8.31	178.63	-27.81	1,346.77	454.12	417.04	37.08	12.247 SF		
4,300.00	3,173.64	3,170.74	3,113.71	32.00	8.11	-175.17	-25.53	1,397.05	463.10	425.59	37.51	12.347		
4,400.00	3,176.28	3,114.13	3,072.32	34.19	7.94	-167.69	-23.78	1,435.60	480.53	443.29	37.24	12.903		
4,442.09	3,177.38	3,093.17	3,056.24	35.11	7.88	-164.30	-23.17	1,449.03	490.70	453.80	36.90	13.297		
4,500.00	3,178.90	3,066.73	3,035.40	36.38	7.80	-159.54	-22.43	1,465.29	508.06	471.79	36.26	14.010		
4,600.00	3,181.53	3,026.76	3,002.80	38.58	7.67	-151.48	-21.38	1,488.38	547.71	512.92	34.80	15.741		
4,700.00	3,184.15	3,000.00	2,980.28	40.80	7.59	-143.74	-20.73	1,502.81	598.33	565.25	33.08	18.088		
4,800.00	3,186.77	2,963.70	2,948.89	43.03	7.48	-137.48	-19.90	1,521.02	657.83	626.50	31.33	20.996		
4,900.00	3,189.40	2,938.58	2,926.65	45.27	7.40	-131.88	-19.37	1,532.68	724.64	694.96	29.68	24.419		
5,000.00	3,192.02	2,916.72	2,906.97	47.52	7.33	-127.17	-18.94	1,542.19	797.15	768.98	28.18	28.292		
5,100.00	3,194.65	2,900.00	2,891.73	49.78	7.28	-123.18	-18.63	1,549.06	874.18	847.33	26.86	32.551		
5,200.00	3,197.27	2,880.65	2,873.89	52.04	7.22	-119.89	-18.29	1,556.56	954.76	929.06	25.70	37.153		
5,300.00	3,199.89	2,865.63	2,859.91	54.31	7.17	-117.10	-18.04	1,562.04	1,038.19	1,013.48	24.70	42.029		
5,400.00	3,202.52	2,850.00	2,845.25	56.59	7.13	-114.74	-17.79	1,567.44	1,123.91	1,100.07	23.84	47.142		
5,500.00	3,205.14	2,850.00	2,845.25	58.87	7.13	-112.63	-17.79	1,567.44	1,211.58	1,188.46	23.12	52.396		
5,600.00	3,207.76	2,829.29	2,825.64	61.15	7.06	-110.94	-17.49	1,574.10	1,300.59	1,278.11	22.47	57.876		
5,700.00	3,210.39	2,819.43	2,816.24	63.44	7.04	-109.41	-17.35	1,577.07	1,390.97	1,369.04	21.92	63.451		
5,800.00	3,213.01	2,800.00	2,797.60	65.73	6.98	-108.11	-17.11	1,582.54	1,482.52	1,461.10	21.42	69.203		
5,900.00	3,215.64	2,800.00	2,797.60	68.02	6.98	-106.92	-17.11	1,582.54	1,574.76	1,553.73	21.03	74.893		
6,000.00	3,218.26	2,800.00	2,797.60	70.32	6.98	-105.86	-17.11	1,582.54	1,667.89	1,647.21	20.68	80.635		
6,100.00	3,220.88	2,800.00	2,797.60	72.62	6.98	-104.92	-17.11	1,582.54	1,761.78	1,741.39	20.39	86.410		
6,200.00	3,223.51	2,781.39	2,779.61	74.92	6.93	-104.12	-16.89	1,587.31	1,855.97	1,835.87	20.10	92.352		
6,300.00	3,226.13	2,775.46	2,773.86	77.22	6.91	-103.37	-16.82	1,588.73	1,950.80	1,930.94	19.86	98.211		
6,400.00	3,228.75	2,769.96	2,768.50	79.53	6.89	-102.69	-16.77	1,590.00	2,046.07	2,026.41	19.66	104.070		
6,500.00	3,231.38	2,750.00	2,749.01	81.84	6.84	-102.09	-16.57	1,594.28	2,141.92	2,122.47	19.46	110.090		
6,600.00	3,234.00	2,750.00	2,749.01	84.14	6.84	-101.53	-16.57	1,594.28	2,237.80	2,218.48	19.31	115.871		
6,700.00	3,236.63	2,750.00	2,749.01	86.45	6.84	-101.01	-16.57	1,594.28	2,334.02	2,314.83	19.19	121.626		
6,800.00	3,239.25	2,750.00	2,749.01	88.76	6.84	-100.53	-16.57	1,594.28	2,430.55	2,411.46	19.09	127.348		
6,900.00	3,241.87	2,750.00	2,749.01	91.08	6.84	-100.09	-16.57	1,594.28	2,527.34	2,508.34	19.00	133.034		
7,000.00	3,244.50	2,750.00	2,749.01	93.39	6.84	-99.69	-16.57	1,594.28	2,624.38	2,605.45	18.92	138.680		
7,100.00	3,247.12	2,750.00	2,749.01	95.70	6.84	-99.32	-16.57	1,594.28	2,721.63	2,702.77	18.86	144.282		
7,200.00	3,249.75	2,750.00	2,749.01	98.02	6.84	-98.97	-16.57	1,594.28	2,819.07	2,800.26	18.81	149.837		
7,300.00	3,252.37	2,750.00	2,749.01	100.34	6.84	-98.64	-16.57	1,594.28	2,916.69	2,897.91	18.78	155.343		
7,400.00	3,254.99	2,750.00	2,749.01	102.65	6.84	-98.34	-16.57	1,594.28	3,014.46	2,995.72	18.75	160.799		
7,500.00	3,257.62	2,728.14	2,727.54	104.97	6.78	-98.06	-16.39	1,598.35	3,111.97	3,093.29	18.68	166.574		
7,600.00	3,260.24	2,725.49	2,724.92	107.29	6.77	-97.80	-16.37	1,598.80	3,209.91	3,191.24	18.66	171.986		
7,700.00	3,262.86	2,722.97	2,722.43	109.61	6.76	-97.55	-16.35	1,599.21	3,307.96	3,289.31	18.65	177.345		
7,800.00	3,265.49	2,700.00	2,699.72	111.93	6.70	-97.32	-16.19	1,602.61	3,406.47	3,387.86	18.61	183.048		
7,900.00	3,268.11	2,700.00	2,699.72	114.25	6.70	-97.10	-16.19	1,602.61	3,504.65	3,486.03	18.62	188.265		
8,000.00	3,270.74	2,700.00	2,699.72	116.57	6.70	-96.89	-16.19	1,602.61	3,602.92	3,584.30	18.63	193.425		
8,100.00	3,273.36	2,700.00	2,699.72	118.89	6.70	-96.69	-16.19	1,602.61	3,701.29	3,682.65	18.64	198.529		
8,200.00	3,275.98	2,700.00	2,699.72	121.21	6.70	-96.50	-16.19	1,602.61	3,799.74	3,781.08	18.67	203.576		
8,300.00	3,278.61	2,700.00	2,699.72	123.54	6.70	-96.32	-16.19	1,602.61	3,898.28	3,879.59	18.69	208.565		
8,400.00	3,281.23	2,700.00	2,699.72	125.86	6.70	-96.15	-16.19	1,602.61	3,996.88	3,978.16	18.72	213.498		
8,500.00	3,283.85	2,700.00	2,699.72	128.18	6.70	-95.99	-16.19	1,602.61	4,095.55	4,076.80	18.75	218.373		

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



Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 2H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,600.00	3,286.48	2,700.00	2,699.72	130.51	6.70	-95.84	-16.19	1,602.61	4,194.29	4,175.50	18.79	223.192		
8,700.00	3,289.10	2,700.00	2,699.72	132.83	6.70	-95.69	-16.19	1,602.61	4,293.08	4,274.25	18.83	227.954		
8,800.00	3,291.73	2,700.00	2,699.72	135.15	6.70	-95.55	-16.19	1,602.61	4,391.93	4,373.05	18.88	232.659		
8,900.00	3,294.35	2,700.00	2,699.72	137.48	6.70	-95.42	-16.19	1,602.61	4,490.83	4,471.91	18.92	237.308		
9,000.00	3,296.97	2,700.00	2,699.72	139.80	6.70	-95.29	-16.19	1,602.61	4,589.78	4,570.80	18.97	241.901		
9,001.40	3,297.01	2,700.00	2,699.72	139.84	6.70	-95.29	-16.19	1,602.61	4,591.16	4,572.19	18.97	241.965		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	89.67	9.20	1,608.89	1,608.92					
100.00	100.00	100.00	100.00	0.92	0.92	89.67	9.20	1,608.89	1,608.92	1,607.07	1.85	870.438		
200.00	200.00	200.00	200.00	1.53	1.53	89.67	9.20	1,608.89	1,608.92	1,605.87	3.05	527.074		
300.00	300.00	300.00	300.00	1.95	1.95	89.67	9.20	1,608.89	1,608.92	1,605.01	3.91	411.695		
400.00	400.00	400.00	400.00	2.31	2.31	89.67	9.20	1,608.89	1,608.92	1,604.31	4.61	348.772		
500.00	500.00	500.00	500.00	2.61	2.61	89.67	9.20	1,608.89	1,608.92	1,603.69	5.23	307.695		
600.00	600.00	600.00	600.00	2.89	2.89	89.67	9.20	1,608.89	1,608.92	1,603.14	5.78	278.160		
700.00	700.00	700.00	700.00	3.15	3.15	89.67	9.20	1,608.89	1,608.92	1,602.63	6.29	255.597		
800.00	800.00	800.00	800.00	3.39	3.39	89.67	9.20	1,608.89	1,608.92	1,602.15	6.77	237.623		
900.00	900.00	900.00	900.00	3.61	3.61	89.67	9.20	1,608.89	1,608.92	1,601.70	7.22	222.862		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	89.67	9.20	1,608.89	1,608.92	1,601.27	7.65	210.453		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	89.67	9.20	1,608.89	1,608.92	1,600.87	8.05	199.828		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	89.67	9.20	1,608.89	1,608.92	1,600.48	8.44	190.594		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	89.67	9.20	1,608.89	1,608.92	1,600.10	8.82	182.469		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	89.67	9.20	1,608.89	1,608.92	1,599.74	9.18	175.247		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	89.67	9.20	1,608.89	1,608.92	1,599.39	9.53	168.770		
1,600.00	1,600.00	4,495.45	3,124.59	4.94	36.99	-5.39	437.87	-41.31	1,586.76	1,567.66	19.10	83.083		
1,700.00	1,700.00	4,492.82	3,124.66	5.10	36.93	-5.05	437.88	-38.69	1,490.93	1,471.46	19.48	76.553		
1,800.00	1,800.00	4,490.20	3,124.73	5.27	36.87	-4.71	437.89	-36.07	1,395.69	1,375.77	19.92	70.063		
1,900.00	1,900.00	4,487.58	3,124.80	5.43	36.81	-4.37	437.89	-33.45	1,301.15	1,280.70	20.45	63.634		
2,000.00	2,000.00	4,484.96	3,124.86	5.58	36.76	-4.03	437.90	-30.83	1,207.49	1,186.41	21.08	57.287		
2,100.00	2,100.00	4,482.34	3,124.93	5.74	36.70	-3.69	437.91	-28.21	1,114.92	1,093.08	21.84	51.055		
2,200.00	2,200.00	4,479.72	3,125.00	5.88	36.64	-3.34	437.92	-25.59	1,023.74	1,000.98	22.76	44.977		
2,300.00	2,300.00	4,477.09	3,125.07	6.03	36.58	-3.00	437.92	-22.97	934.37	910.48	23.89	39.105		
2,347.00	2,347.00	4,475.86	3,125.10	6.07	36.56	-2.84	437.93	-21.74	893.14	868.64	24.50	36.453		
2,350.00	2,350.00	4,475.78	3,125.10	6.07	36.55	-2.83	437.93	-21.65	890.53	865.98	24.54	36.286		
2,400.00	2,399.95	4,472.70	3,125.19	6.28	36.49	-2.67	437.94	-18.57	847.02	821.77	25.25	33.545		
2,450.00	2,449.65	4,466.46	3,125.35	6.43	36.35	-2.51	437.96	-12.34	803.75	777.82	25.93	31.000		
2,500.00	2,498.84	4,457.11	3,125.59	6.58	36.14	-2.36	437.99	-2.99	760.91	734.32	26.59	28.619		
2,550.00	2,547.29	4,444.68	3,125.92	6.73	35.87	-2.21	438.02	9.43	718.69	691.46	27.23	26.396		
2,600.00	2,594.77	4,429.24	3,126.32	6.89	35.53	-2.08	438.07	24.87	677.25	649.40	27.84	24.324		
2,650.00	2,641.04	4,410.86	3,126.81	7.06	35.13	-1.95	438.13	43.24	636.75	608.32	28.43	22.398		
2,700.00	2,685.88	4,389.64	3,127.36	7.22	34.66	-1.82	438.19	64.46	597.33	568.35	28.99	20.608		
2,750.00	2,729.07	4,365.66	3,127.99	7.39	34.14	-1.70	438.26	88.42	559.13	529.62	29.51	18.947		
2,800.00	2,770.39	4,339.06	3,128.69	7.55	33.55	-1.59	438.34	115.02	522.23	492.23	30.00	17.408		
2,850.00	2,809.66	4,309.96	3,129.45	7.72	32.92	-1.48	438.43	144.11	486.73	456.27	30.45	15.983		
2,900.00	2,846.67	4,278.50	3,130.28	7.88	32.24	-1.38	438.53	175.56	452.66	421.79	30.87	14.663		
2,950.00	2,881.24	4,244.83	3,131.16	8.03	31.51	-1.29	438.63	209.21	420.06	388.81	31.25	13.441		
3,000.00	2,913.21	4,209.13	3,132.09	8.18	30.74	-1.20	438.74	244.90	388.92	357.32	31.59	12.310		
3,034.50	2,933.67	4,183.40	3,132.77	8.37	30.18	-1.14	438.82	270.63	368.27	336.47	31.80	11.580		
3,100.00	2,971.24	4,133.73	3,134.07	9.07	29.12	-1.03	438.97	320.27	330.21	297.93	32.28	10.229		
3,200.00	3,028.60	4,057.91	3,136.06	10.29	27.52	-0.81	439.20	396.07	274.75	241.37	33.38	8.232		
3,234.50	3,048.39	4,031.75	3,136.75	10.72	26.97	-0.73	439.28	422.22	256.68	222.85	33.83	7.588		
3,250.00	3,057.11	4,019.88	3,137.06	10.92	26.72	-0.68	439.31	434.09	248.85	214.82	34.03	7.312		
3,300.00	3,082.91	3,980.00	3,138.10	11.62	25.89	-0.55	439.44	473.96	225.34	190.73	34.61	6.510		
3,350.00	3,104.99	3,937.94	3,139.20	12.40	25.02	-0.43	439.56	515.99	204.34	169.28	35.05	5.829		
3,400.00	3,123.17	3,893.58	3,140.37	13.23	24.11	-0.17	439.69	560.35	185.48	150.15	35.33	5.250		
3,450.00	3,137.33	3,845.38	3,141.63	14.12	23.11	0.90	439.31	608.53	167.88	132.44	35.45	4.736		
3,500.00	3,147.36	3,796.53	3,142.91	15.06	22.12	1.96	438.09	657.34	150.77	115.34	35.43	4.256		
3,550.00	3,153.17	3,747.43	3,144.20	16.02	21.12	3.00	436.03	706.38	133.71	98.37	35.34	3.783		
3,577.89	3,154.56	3,720.06	3,144.92	16.57	20.57	3.56	434.52	733.70	124.10	88.83	35.27	3.518		
3,600.00	3,155.14	3,698.42	3,145.48	17.01	20.14	4.00	433.14	755.29	116.45	81.23	35.22	3.307		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 31H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,700.00	3,157.77	3,598.95	3,145.23	19.06	18.17	7.66	423.40	854.20	81.07	46.18	34.89	2.323		
3,800.00	3,160.41	3,506.03	3,133.14	21.16	16.32	5.63	405.96	944.57	47.48	15.87	31.60	1.502 ES, SF		
3,841.40	3,161.50	3,470.78	3,125.40	22.04	15.64	-9.08	397.23	977.82	42.06	17.09	24.96	1.685 CC		
3,900.00	3,163.05	3,424.27	3,112.60	23.29	14.76	-99.78	384.00	1,020.52	53.73	36.51	17.22	3.120		
4,000.00	3,165.70	3,350.00	3,086.25	25.44	13.41	-130.53	359.06	1,085.27	104.89	85.25	19.64	5.341		
4,100.00	3,168.35	3,293.67	3,061.67	27.62	12.46	-126.94	337.24	1,130.98	169.67	149.17	20.50	8.278		
4,200.00	3,171.00	3,242.31	3,036.01	29.80	11.65	-123.65	315.36	1,169.70	241.06	220.63	20.42	11.803		
4,300.00	3,173.64	3,197.54	3,011.28	32.00	11.00	-120.29	294.88	1,200.89	316.73	296.72	20.01	15.826		
4,400.00	3,176.28	3,133.19	2,974.37	34.19	10.14	-120.23	264.65	1,244.07	393.27	373.19	20.08	19.588		
4,442.09	3,177.38	3,105.60	2,958.55	35.11	9.80	-120.13	251.69	1,262.58	425.04	404.94	20.10	21.144		
4,500.00	3,178.90	3,067.44	2,936.66	36.38	9.33	-119.98	233.76	1,288.19	468.58	448.44	20.14	23.270		
4,600.00	3,181.53	3,001.55	2,898.87	38.58	8.97	-119.78	202.80	1,332.40	543.77	523.43	20.34	26.736		
4,700.00	3,184.15	2,950.00	2,867.92	40.80	8.80	-118.39	179.16	1,366.16	620.22	599.97	20.25	30.623		
4,800.00	3,186.77	2,919.75	2,848.40	43.03	8.69	-115.82	165.90	1,385.09	698.82	678.96	19.86	35.195		
4,900.00	3,189.40	2,884.66	2,824.57	45.27	8.56	-114.01	151.13	1,406.19	779.55	759.93	19.61	39.746		
5,000.00	3,192.02	2,850.00	2,799.82	47.52	8.43	-112.48	137.22	1,426.06	862.11	842.69	19.42	44.393		
5,100.00	3,194.65	2,823.85	2,780.39	49.78	8.33	-110.86	127.19	1,440.38	946.27	927.09	19.18	49.338		
5,200.00	3,197.27	2,800.00	2,762.11	52.04	8.23	-109.42	118.40	1,452.94	1,031.88	1,012.92	18.96	54.430		
5,300.00	3,199.89	2,773.54	2,741.26	54.31	8.12	-108.26	109.06	1,466.28	1,118.75	1,099.93	18.82	59.457		
5,400.00	3,202.52	2,750.00	2,722.21	56.59	8.03	-107.18	101.13	1,477.61	1,206.76	1,188.09	18.67	64.628		
5,500.00	3,205.14	2,731.60	2,707.01	58.87	7.95	-106.13	95.18	1,486.10	1,295.78	1,277.26	18.52	69.959		
5,600.00	3,207.76	2,700.00	2,680.30	61.15	7.82	-105.44	85.49	1,499.93	1,385.85	1,367.35	18.50	74.923		
5,700.00	3,210.39	2,700.00	2,680.30	63.44	7.82	-104.31	85.49	1,499.93	1,476.43	1,458.17	18.26	80.845		
5,800.00	3,213.01	2,680.77	2,663.69	65.73	7.73	-103.61	79.93	1,507.87	1,567.85	1,549.66	18.20	86.169		
5,900.00	3,215.64	2,666.39	2,651.11	68.02	7.67	-102.91	75.95	1,513.56	1,659.93	1,641.82	18.11	91.647		
6,000.00	3,218.26	2,650.00	2,636.59	70.32	7.60	-102.31	71.58	1,519.81	1,752.60	1,734.54	18.06	97.064		
6,100.00	3,220.88	2,650.00	2,636.59	72.62	7.60	-101.59	71.58	1,519.81	1,845.83	1,827.90	17.93	102.939		
6,200.00	3,223.51	2,629.28	2,618.00	74.92	7.51	-101.15	66.33	1,527.30	1,939.42	1,921.49	17.93	108.170		
6,300.00	3,226.13	2,618.59	2,608.32	77.22	7.47	-100.66	63.74	1,530.99	2,033.49	2,015.60	17.89	113.684		
6,400.00	3,228.75	2,600.00	2,591.30	79.53	7.39	-100.27	59.44	1,537.14	2,128.00	2,110.12	17.89	118.965		
6,500.00	3,231.38	2,600.00	2,591.30	81.84	7.39	-99.77	59.44	1,537.14	2,222.76	2,204.94	17.82	124.712		
6,600.00	3,234.00	2,600.00	2,591.30	84.14	7.39	-99.32	59.44	1,537.14	2,317.96	2,300.18	17.77	130.419		
6,700.00	3,236.63	2,600.00	2,591.30	86.45	7.39	-98.90	59.44	1,537.14	2,413.54	2,395.81	17.74	136.082		
6,800.00	3,239.25	2,574.64	2,567.79	88.76	7.28	-98.67	53.99	1,544.92	2,509.01	2,491.22	17.79	141.038		
6,900.00	3,241.87	2,550.00	2,544.64	91.08	7.17	-98.45	49.15	1,551.83	2,605.16	2,587.32	17.84	146.035		
7,000.00	3,244.50	2,550.00	2,544.64	93.39	7.17	-98.11	49.15	1,551.83	2,701.19	2,683.37	17.82	151.573		
7,100.00	3,247.12	2,550.00	2,544.64	95.70	7.17	-97.80	49.15	1,551.83	2,797.50	2,779.68	17.81	157.061		
7,200.00	3,249.75	2,550.00	2,544.64	98.02	7.17	-97.51	49.15	1,551.83	2,894.05	2,876.24	17.81	162.497		
7,300.00	3,252.37	2,550.00	2,544.64	100.34	7.17	-97.24	49.15	1,551.83	2,990.83	2,973.02	17.82	167.881		
7,400.00	3,254.99	2,550.00	2,544.64	102.65	7.17	-96.98	49.15	1,551.83	3,087.82	3,070.00	17.83	173.210		
7,500.00	3,257.62	2,550.00	2,544.64	104.97	7.17	-96.75	49.15	1,551.83	3,185.00	3,167.15	17.84	178.485		
7,600.00	3,260.24	2,526.45	2,522.26	107.29	7.07	-96.61	44.96	1,557.82	3,281.96	3,264.05	17.91	183.234		
7,700.00	3,262.86	2,521.73	2,517.74	109.61	7.05	-96.42	44.17	1,558.95	3,379.29	3,361.35	17.94	188.327		
7,800.00	3,265.49	2,500.00	2,496.85	111.93	6.96	-96.28	40.75	1,563.83	3,476.95	3,458.95	18.01	193.088		
7,900.00	3,268.11	2,500.00	2,496.85	114.25	6.96	-96.09	40.75	1,563.83	3,574.44	3,556.40	18.04	198.174		
8,000.00	3,270.74	2,500.00	2,496.85	116.57	6.96	-95.91	40.75	1,563.83	3,672.06	3,653.98	18.07	203.204		
8,100.00	3,273.36	2,500.00	2,496.85	118.89	6.96	-95.74	40.75	1,563.83	3,769.80	3,751.69	18.11	208.179		
8,200.00	3,275.98	2,500.00	2,496.85	121.21	6.96	-95.58	40.75	1,563.83	3,867.66	3,849.51	18.15	213.098		
8,300.00	3,278.61	2,500.00	2,496.85	123.54	6.96	-95.43	40.75	1,563.83	3,965.62	3,947.43	18.19	217.961		
8,400.00	3,281.23	2,500.00	2,496.85	125.86	6.96	-95.28	40.75	1,563.83	4,063.69	4,045.45	18.24	222.768		
8,500.00	3,283.85	2,500.00	2,496.85	128.18	6.96	-95.14	40.75	1,563.83	4,161.85	4,143.55	18.29	227.520		
8,600.00	3,286.48	2,500.00	2,496.85	130.51	6.96	-95.01	40.75	1,563.83	4,260.09	4,241.74	18.35	232.216		

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



Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
8,700.00	3,289.10	2,500.00	2,496.85	132.83	6.96	-94.88	40.75	1,563.83	4,358.41	4,340.01	18.40	236.856			
8,800.00	3,291.73	2,500.00	2,496.85	135.15	6.96	-94.76	40.75	1,563.83	4,456.81	4,438.35	18.46	241.442			
8,900.00	3,294.35	2,478.87	2,476.36	137.48	6.87	-94.69	37.78	1,568.08	4,554.98	4,536.45	18.53	245.758			
9,000.00	3,296.97	2,476.15	2,473.72	139.80	6.86	-94.59	37.42	1,568.58	4,653.44	4,634.84	18.60	250.227			
9,001.40	3,297.01	2,476.12	2,473.68	139.84	6.86	-94.58	37.42	1,568.59	4,654.81	4,636.22	18.60	250.289			

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	91.46	-41.01	1,608.90	1,609.42					
100.00	100.00	100.00	100.00	0.92	0.92	91.46	-41.01	1,608.90	1,609.42	1,607.57	1.85	870.709		
200.00	200.00	200.00	200.00	1.53	1.53	91.46	-41.01	1,608.90	1,609.42	1,606.37	3.05	527.238		
300.00	300.00	300.00	300.00	1.95	1.95	91.46	-41.01	1,608.90	1,609.42	1,605.51	3.91	411.823		
400.00	400.00	400.00	400.00	2.31	2.31	91.46	-41.01	1,608.90	1,609.42	1,604.81	4.61	348.880		
500.00	500.00	500.00	500.00	2.61	2.61	91.46	-41.01	1,608.90	1,609.42	1,604.19	5.23	307.790		
600.00	600.00	600.00	600.00	2.89	2.89	91.46	-41.01	1,608.90	1,609.42	1,603.64	5.78	278.247		
700.00	700.00	700.00	700.00	3.15	3.15	91.46	-41.01	1,608.90	1,609.42	1,603.13	6.29	255.676		
800.00	800.00	800.00	800.00	3.39	3.39	91.46	-41.01	1,608.90	1,609.42	1,602.65	6.77	237.697		
900.00	900.00	900.00	900.00	3.61	3.61	91.46	-41.01	1,608.90	1,609.42	1,602.20	7.22	222.931		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	91.46	-41.01	1,608.90	1,609.42	1,601.78	7.65	210.519		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	91.46	-41.01	1,608.90	1,609.42	1,601.37	8.05	199.890		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	91.46	-41.01	1,608.90	1,609.42	1,600.98	8.44	190.653		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	91.46	-41.01	1,608.90	1,609.42	1,600.60	8.82	182.526		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	91.46	-41.01	1,608.90	1,609.42	1,600.24	9.18	175.302		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	91.46	-41.01	1,608.90	1,609.42	1,599.89	9.53	168.823		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	91.46	-41.01	1,608.90	1,609.42	1,599.55	9.88	162.968		
1,700.00	1,700.00	4,590.92	3,166.37	5.10	36.33	-176.04	-531.33	-36.78	1,560.10	1,539.39	20.71	75.334		
1,800.00	1,800.00	4,588.30	3,166.44	5.27	36.27	-176.32	-531.32	-34.17	1,466.50	1,445.28	21.22	69.108		
1,900.00	1,900.00	4,585.69	3,166.51	5.43	36.21	-176.60	-531.31	-31.55	1,373.80	1,351.99	21.82	62.972		
2,000.00	2,000.00	4,583.07	3,166.58	5.58	36.16	-176.88	-531.31	-28.93	1,282.20	1,259.68	22.51	56.951		
2,100.00	2,100.00	4,580.45	3,166.65	5.74	36.10	-177.16	-531.30	-26.32	1,191.93	1,168.60	23.34	51.076		
2,200.00	2,200.00	4,577.83	3,166.71	5.88	36.04	-177.45	-531.29	-23.70	1,103.34	1,079.03	24.31	45.388		
2,300.00	2,300.00	4,575.21	3,166.78	6.03	35.98	-177.73	-531.28	-21.08	1,016.87	991.40	25.46	39.933		
2,347.00	2,347.00	4,573.98	3,166.82	6.07	35.96	-177.86	-531.28	-19.85	977.11	951.05	26.07	37.485		
2,350.00	2,350.00	4,573.90	3,166.82	6.07	35.95	-177.87	-531.28	-19.77	974.60	948.49	26.11	37.333		
2,400.00	2,399.95	4,570.82	3,166.90	6.28	35.89	-178.01	-531.27	-16.69	933.64	906.80	26.83	34.796		
2,450.00	2,449.65	4,564.59	3,167.06	6.43	35.75	-178.16	-531.25	-10.46	894.73	867.16	27.57	32.458		
2,500.00	2,498.84	4,555.24	3,167.31	6.58	35.55	-178.31	-531.22	-1.11	858.29	829.94	28.34	30.283		
2,550.00	2,547.29	4,542.81	3,167.63	6.73	35.27	-178.46	-531.18	11.31	824.72	795.57	29.15	28.290		
2,600.00	2,594.77	4,527.37	3,168.04	6.89	34.93	-178.61	-531.14	26.74	794.43	764.45	29.98	26.496		
2,650.00	2,641.04	4,509.00	3,168.52	7.06	34.53	-178.76	-531.08	45.11	767.78	736.96	30.82	24.915		
2,700.00	2,685.88	4,487.77	3,169.07	7.22	34.07	-178.90	-531.02	66.33	745.07	713.45	31.63	23.559		
2,750.00	2,729.07	4,463.80	3,169.70	7.39	33.55	-179.03	-530.94	90.30	726.56	694.17	32.39	22.432		
2,800.00	2,770.39	4,437.20	3,170.40	7.55	32.97	-179.16	-530.86	116.89	712.38	679.31	33.08	21.537		
2,850.00	2,809.66	4,408.10	3,171.16	7.72	32.34	-179.27	-530.77	145.98	702.59	668.92	33.67	20.868		
2,900.00	2,846.67	4,376.64	3,171.98	7.88	31.66	-179.38	-530.68	177.43	697.11	662.96	34.15	20.413		
2,941.89	2,875.81	4,348.58	3,172.72	8.00	31.05	-179.47	-530.59	205.48	695.71	661.24	34.47	20.184		
2,950.00	2,881.24	4,342.98	3,172.86	8.03	30.93	-179.48	-530.58	211.08	695.76	661.24	34.52	20.158		
3,000.00	2,913.21	4,307.27	3,173.80	8.18	30.17	-179.57	-530.47	246.77	698.26	663.50	34.77	20.085		
3,034.50	2,933.67	4,281.54	3,174.47	8.37	29.62	-179.63	-530.39	272.49	702.06	667.19	34.87	20.135		
3,100.00	2,971.24	4,231.88	3,175.77	9.07	28.56	-179.72	-530.24	322.14	712.00	677.01	34.99	20.350		
3,200.00	3,028.60	4,156.05	3,177.76	10.29	26.97	-179.86	-530.01	397.93	731.73	696.66	35.08	20.860		
3,234.50	3,048.39	4,129.90	3,178.44	10.72	26.43	-179.91	-529.93	424.08	739.76	704.69	35.06	21.097		
3,250.00	3,057.11	4,118.02	3,178.75	10.92	26.18	-179.93	-529.89	435.95	743.58	708.53	35.05	21.215		
3,300.00	3,082.91	4,078.14	3,179.80	11.62	25.36	-179.98	-529.77	475.82	756.96	721.97	34.99	21.631		
3,350.00	3,104.99	4,025.49	3,181.18	12.40	24.28	179.18	-529.34	528.45	771.30	736.50	34.80	22.161		
3,400.00	3,123.17	3,964.75	3,182.77	13.23	23.04	177.93	-527.67	589.14	785.45	750.91	34.53	22.744		
3,450.00	3,137.33	3,901.06	3,184.44	14.12	21.75	176.63	-524.54	652.73	798.80	764.56	34.24	23.329		
3,500.00	3,147.36	3,834.95	3,186.17	15.06	20.43	175.29	-519.79	718.65	810.93	776.96	33.96	23.878		
3,550.00	3,153.17	3,767.01	3,187.95	16.02	19.09	173.93	-513.33	786.26	821.48	787.79	33.70	24.379		
3,577.89	3,154.56	3,728.56	3,188.96	16.57	18.35	173.16	-508.97	824.44	826.60	793.05	33.56	24.634		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 32H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,600.00	3,155.14	3,583.98	3,181.07	17.01	15.61	164.70	-482.31	965.95	829.47	797.41	32.06	25.872		
3,700.00	3,157.77	3,192.03	3,025.09	19.06	9.59	146.79	-318.66	1,277.42	803.12	775.03	28.09	28.589		
3,800.00	3,160.41	3,120.26	2,983.93	21.16	8.80	149.50	-280.91	1,322.49	772.67	743.51	29.16	26.498		
3,900.00	3,163.05	3,049.81	2,943.52	23.29	8.16	152.53	-243.86	1,366.73	744.27	714.04	30.23	24.620		
4,000.00	3,165.70	3,000.00	2,914.18	25.44	8.01	157.28	-218.02	1,397.58	719.27	687.73	31.54	22.806		
4,100.00	3,168.35	2,950.00	2,882.07	27.62	7.87	162.65	-193.41	1,426.95	700.20	667.56	32.63	21.456		
4,200.00	3,171.00	2,918.45	2,860.47	29.80	7.77	169.82	-178.65	1,444.58	688.38	654.65	33.73	20.407		
4,287.25	3,173.31	2,889.58	2,839.83	31.72	7.69	176.45	-165.69	1,460.05	684.97	650.66	34.31	19.965	CC, ES	
4,300.00	3,173.64	2,885.62	2,836.94	32.00	7.67	177.46	-163.96	1,462.12	685.05	650.68	34.37	19.934	SF	
4,400.00	3,176.28	2,850.00	2,810.25	34.19	7.56	-174.57	-148.81	1,480.20	690.94	656.51	34.44	20.064		
4,442.09	3,177.38	2,850.00	2,810.25	35.11	7.56	-170.51	-148.81	1,480.20	696.18	661.60	34.58	20.131		
4,500.00	3,178.90	2,831.04	2,795.57	36.38	7.50	-165.74	-141.11	1,489.40	706.62	672.33	34.29	20.607		
4,600.00	3,181.53	2,800.00	2,770.87	38.58	7.41	-157.61	-129.03	1,503.82	734.05	700.55	33.49	21.915		
4,700.00	3,184.15	2,786.38	2,759.78	40.80	7.36	-149.68	-123.95	1,509.88	772.12	739.41	32.71	23.606		
4,800.00	3,186.77	2,766.84	2,743.62	43.03	7.30	-142.77	-116.91	1,518.29	819.72	788.10	31.61	25.929		
4,900.00	3,189.40	2,750.00	2,729.45	45.27	7.25	-136.76	-111.06	1,525.27	875.34	844.87	30.47	28.727		
5,000.00	3,192.02	2,732.40	2,714.42	47.52	7.19	-131.63	-105.19	1,532.28	937.65	908.35	29.30	32.003		
5,100.00	3,194.65	2,717.18	2,701.24	49.78	7.14	-127.26	-100.30	1,538.12	1,005.48	977.28	28.20	35.656		
5,200.00	3,197.27	2,700.00	2,686.18	52.04	7.09	-123.55	-95.00	1,544.45	1,077.86	1,050.72	27.14	39.718		
5,300.00	3,199.89	2,700.00	2,686.18	54.31	7.09	-120.45	-95.00	1,544.45	1,154.07	1,127.70	26.37	43.762		
5,400.00	3,202.52	2,677.98	2,666.58	56.59	7.02	-117.72	-88.54	1,552.16	1,233.15	1,207.74	25.41	48.529		
5,500.00	3,205.14	2,666.72	2,656.45	58.87	6.98	-115.41	-85.39	1,555.92	1,314.90	1,290.24	24.66	53.319		
5,600.00	3,207.76	2,650.00	2,641.26	61.15	6.93	-113.38	-80.90	1,561.28	1,398.83	1,374.90	23.93	58.449		
5,700.00	3,210.39	2,650.00	2,641.26	63.44	6.93	-111.70	-80.90	1,561.28	1,484.49	1,461.06	23.43	63.349		
5,800.00	3,213.01	2,650.00	2,641.26	65.73	6.93	-110.23	-80.90	1,561.28	1,571.85	1,548.86	22.99	68.382		
5,900.00	3,215.64	2,628.64	2,621.63	68.02	6.86	-108.82	-75.50	1,567.72	1,660.19	1,637.78	22.41	74.091		
6,000.00	3,218.26	2,620.56	2,614.14	70.32	6.84	-107.64	-73.56	1,570.04	1,749.81	1,727.81	21.99	79.555		
6,100.00	3,220.88	2,600.00	2,594.92	72.62	6.77	-106.52	-68.86	1,575.66	1,840.54	1,818.99	21.54	85.436		
6,200.00	3,223.51	2,600.00	2,594.92	74.92	6.77	-105.61	-68.86	1,575.66	1,931.82	1,910.56	21.27	90.827		
6,300.00	3,226.13	2,600.00	2,594.92	77.22	6.77	-104.79	-68.86	1,575.66	2,023.93	2,002.91	21.03	96.261		
6,400.00	3,228.75	2,600.00	2,594.92	79.53	6.77	-104.05	-68.86	1,575.66	2,116.76	2,095.95	20.81	101.725		
6,500.00	3,231.38	2,600.00	2,594.92	81.84	6.77	-103.37	-68.86	1,575.66	2,210.21	2,189.60	20.62	107.208		
6,600.00	3,234.00	2,580.88	2,576.87	84.14	6.72	-102.68	-64.80	1,580.49	2,303.91	2,283.56	20.34	113.247		
6,700.00	3,236.63	2,575.44	2,571.71	86.45	6.70	-102.10	-63.71	1,581.80	2,398.20	2,378.03	20.17	118.902		
6,800.00	3,239.25	2,570.28	2,566.80	88.76	6.68	-101.57	-62.69	1,583.02	2,492.90	2,472.88	20.02	124.548		
6,900.00	3,241.87	2,550.00	2,547.39	91.08	6.62	-101.03	-58.92	1,587.52	2,588.14	2,568.33	19.82	130.613		
7,000.00	3,244.50	2,550.00	2,547.39	93.39	6.62	-100.59	-58.92	1,587.52	2,683.42	2,663.70	19.72	136.097		
7,100.00	3,247.12	2,550.00	2,547.39	95.70	6.62	-100.18	-58.92	1,587.52	2,779.03	2,759.39	19.63	141.560		
7,200.00	3,249.75	2,550.00	2,547.39	98.02	6.62	-99.81	-58.92	1,587.52	2,874.93	2,855.38	19.56	146.996		
7,300.00	3,252.37	2,550.00	2,547.39	100.34	6.62	-99.45	-58.92	1,587.52	2,971.11	2,951.62	19.50	152.404		
7,400.00	3,254.99	2,550.00	2,547.39	102.65	6.62	-99.13	-58.92	1,587.52	3,067.53	3,048.09	19.44	157.778		
7,500.00	3,257.62	2,550.00	2,547.39	104.97	6.62	-98.82	-58.92	1,587.52	3,164.18	3,144.78	19.40	163.117		
7,600.00	3,260.24	2,550.00	2,547.39	107.29	6.62	-98.53	-58.92	1,587.52	3,261.02	3,241.66	19.36	168.418		
7,700.00	3,262.86	2,550.00	2,547.39	109.61	6.62	-98.26	-58.92	1,587.52	3,358.05	3,338.72	19.33	173.678		
7,800.00	3,265.49	2,550.00	2,547.39	111.93	6.62	-98.01	-58.92	1,587.52	3,455.26	3,435.94	19.31	178.896		
7,900.00	3,268.11	2,526.90	2,525.09	114.25	6.56	-97.71	-55.05	1,592.14	3,552.22	3,532.98	19.23	184.682		
8,000.00	3,270.74	2,523.87	2,522.16	116.57	6.55	-97.48	-54.58	1,592.71	3,649.61	3,630.39	19.22	189.891		
8,100.00	3,273.36	2,520.97	2,519.33	118.89	6.54	-97.26	-54.13	1,593.24	3,747.13	3,727.92	19.21	195.051		
8,200.00	3,275.98	2,500.00	2,498.89	121.21	6.48	-97.02	-51.13	1,596.82	3,845.00	3,825.83	19.17	200.571		
8,300.00	3,278.61	2,500.00	2,498.89	123.54	6.48	-96.83	-51.13	1,596.82	3,942.68	3,923.50	19.18	205.568		
8,400.00	3,281.23	2,500.00	2,498.89	125.86	6.48	-96.65	-51.13	1,596.82	4,040.47	4,021.27	19.19	210.515		
8,500.00	3,283.85	2,500.00	2,498.89	128.18	6.48	-96.47	-51.13	1,596.82	4,138.36	4,119.15	19.21	215.414		

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



Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,600.00	3,286.48	2,500.00	2,498.89	130.51	6.48	-96.31	-51.13	1,596.82	4,236.35	4,217.12	19.23	220.261		
8,700.00	3,289.10	2,500.00	2,498.89	132.83	6.48	-96.15	-51.13	1,596.82	4,334.44	4,315.18	19.26	225.059		
8,800.00	3,291.73	2,500.00	2,498.89	135.15	6.48	-96.00	-51.13	1,596.82	4,432.61	4,413.32	19.29	229.805		
8,900.00	3,294.35	2,500.00	2,498.89	137.48	6.48	-95.86	-51.13	1,596.82	4,530.86	4,511.54	19.32	234.501		
9,000.00	3,296.97	2,500.00	2,498.89	139.80	6.48	-95.72	-51.13	1,596.82	4,629.18	4,609.83	19.36	239.144		
9,001.40	3,297.01	2,500.00	2,498.89	139.84	6.48	-95.72	-51.13	1,596.82	4,630.56	4,611.20	19.36	239.209		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 3H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	92.34	-65.76	1,608.90	1,610.24					
100.00	100.00	100.00	100.00	0.92	0.92	92.34	-65.76	1,608.90	1,610.24	1,608.39	1.85	871.154		
200.00	200.00	200.00	200.00	1.53	1.53	92.34	-65.76	1,608.90	1,610.24	1,607.19	3.05	527.508		
300.00	300.00	300.00	300.00	1.95	1.95	92.34	-65.76	1,608.90	1,610.24	1,606.34	3.91	412.034		
400.00	400.00	400.00	400.00	2.31	2.31	92.34	-65.76	1,608.90	1,610.24	1,605.63	4.61	349.059		
500.00	500.00	500.00	500.00	2.61	2.61	92.34	-65.76	1,608.90	1,610.24	1,605.01	5.23	307.948		
600.00	600.00	600.00	600.00	2.89	2.89	92.34	-65.76	1,608.90	1,610.24	1,604.46	5.78	278.389		
700.00	700.00	700.00	700.00	3.15	3.15	92.34	-65.76	1,608.90	1,610.24	1,603.95	6.29	255.807		
800.00	800.00	800.00	800.00	3.39	3.39	92.34	-65.76	1,608.90	1,610.24	1,603.47	6.77	237.819		
900.00	900.00	900.00	900.00	3.61	3.61	92.34	-65.76	1,608.90	1,610.24	1,603.02	7.22	223.045		
1,000.00	1,000.00	1,000.00	1,000.00	3.82	3.82	92.34	-65.76	1,608.90	1,610.24	1,602.60	7.65	210.626		
1,100.00	1,100.00	1,100.00	1,100.00	4.03	4.03	92.34	-65.76	1,608.90	1,610.24	1,602.19	8.05	199.992		
1,200.00	1,200.00	1,200.00	1,200.00	4.22	4.22	92.34	-65.76	1,608.90	1,610.24	1,601.80	8.44	190.751		
1,300.00	1,300.00	1,300.00	1,300.00	4.41	4.41	92.34	-65.76	1,608.90	1,610.24	1,601.43	8.82	182.619		
1,400.00	1,400.00	1,400.00	1,400.00	4.59	4.59	92.34	-65.76	1,608.90	1,610.24	1,601.06	9.18	175.391		
1,500.00	1,500.00	1,500.00	1,500.00	4.77	4.77	92.34	-65.76	1,608.90	1,610.24	1,600.71	9.53	168.909		
1,600.00	1,600.00	1,600.00	1,600.00	4.94	4.94	92.34	-65.76	1,608.90	1,610.24	1,600.37	9.88	163.052		
1,700.00	1,700.00	1,700.00	1,700.00	5.10	5.10	92.34	-65.76	1,608.90	1,610.24	1,600.03	10.21	157.724		
1,800.00	1,800.00	1,800.00	1,800.00	5.27	5.27	92.34	-65.76	1,608.90	1,610.24	1,599.71	10.53	152.850		
1,900.00	1,900.00	1,900.00	1,900.00	5.43	5.43	92.34	-65.76	1,608.90	1,610.24	1,599.39	10.85	148.368		
2,000.00	2,000.00	2,000.00	2,000.00	5.58	5.58	92.34	-65.76	1,608.90	1,610.24	1,599.08	11.16	144.228		
2,100.00	2,100.00	2,100.00	2,100.00	5.74	5.74	92.34	-65.76	1,608.90	1,610.24	1,598.77	11.47	140.387		
2,200.00	2,200.00	5,121.96	3,435.85	5.88	37.99	-178.35	-1,016.51	-29.24	1,600.46	1,571.84	28.62	55.917		
2,300.00	2,300.00	5,119.35	3,435.92	6.03	37.93	-178.50	-1,016.50	-26.63	1,524.57	1,494.99	29.58	51.546		
2,347.00	2,347.00	5,118.12	3,435.95	6.07	37.91	-178.57	-1,016.50	-25.40	1,489.88	1,459.85	30.03	49.606		
2,350.00	2,350.00	5,118.04	3,435.96	6.07	37.91	-178.57	-1,016.50	-25.32	1,487.69	1,457.63	30.06	49.886		
2,400.00	2,399.95	5,114.96	3,436.04	6.28	37.84	-178.65	-1,016.49	-22.24	1,452.24	1,421.64	30.60	47.460		
2,450.00	2,449.65	5,108.73	3,436.20	6.43	37.72	-178.72	-1,016.47	-16.02	1,418.94	1,387.87	31.07	45.673		
2,500.00	2,498.84	5,099.38	3,436.44	6.58	37.53	-178.80	-1,016.45	-6.68	1,388.08	1,356.56	31.51	44.047		
2,550.00	2,547.29	5,081.68	3,436.91	6.73	37.17	-179.17	-1,016.35	11.02	1,359.89	1,328.00	31.89	42.637		
2,600.00	2,594.77	5,057.52	3,437.54	6.89	36.68	-179.73	-1,016.06	35.18	1,334.53	1,302.32	32.21	41.430		
2,650.00	2,641.04	5,028.52	3,438.30	7.06	36.09	179.62	-1,015.43	64.15	1,312.12	1,279.66	32.47	40.416		
2,700.00	2,685.88	4,994.72	3,439.19	7.22	35.41	178.87	-1,014.33	97.92	1,292.72	1,260.08	32.65	39.596		
2,750.00	2,729.07	4,956.16	3,440.20	7.39	34.63	178.03	-1,012.58	136.44	1,276.34	1,243.58	32.76	38.965		
2,800.00	2,770.39	4,912.87	3,441.34	7.55	33.75	177.10	-1,010.01	179.63	1,262.90	1,230.12	32.78	38.527		
2,850.00	2,809.66	4,864.94	3,442.61	7.72	32.79	176.08	-1,006.39	227.40	1,252.28	1,219.56	32.72	38.268		
2,900.00	2,846.67	4,812.47	3,444.00	7.88	31.74	174.98	-1,001.52	279.63	1,244.30	1,211.71	32.58	38.189		
2,950.00	2,881.24	4,755.58	3,445.50	8.03	30.60	173.79	-995.16	336.14	1,238.71	1,206.33	32.38	38.257		
3,000.00	2,913.21	4,694.44	3,447.13	8.18	29.39	172.52	-987.08	396.72	1,235.25	1,203.14	32.10	38.479		
3,034.50	2,933.67	4,649.88	3,448.31	8.37	28.51	171.59	-980.37	440.75	1,233.93	1,202.06	31.87	38.715		
3,100.00	2,971.24	4,562.79	3,450.63	9.07	26.81	169.80	-965.28	526.50	1,232.07	1,200.65	31.42	39.212		
3,200.00	3,028.60	3,158.47	3,103.86	10.29	8.02	111.37	-252.66	1,521.74	1,207.26	1,190.69	16.57	72.837		
3,234.50	3,048.39	3,157.23	3,102.97	10.72	8.01	112.31	-251.87	1,522.11	1,186.89	1,169.99	16.90	70.228		
3,250.00	3,057.11	3,156.53	3,102.48	10.92	8.01	112.75	-251.43	1,522.32	1,177.84	1,160.78	17.06	69.056		
3,300.00	3,082.91	3,152.25	3,099.41	11.62	8.00	114.15	-248.72	1,523.58	1,148.11	1,130.50	17.61	65.206		
3,350.00	3,104.99	3,145.25	3,094.36	12.40	7.98	115.57	-244.32	1,525.63	1,117.67	1,099.46	18.21	61.366		
3,400.00	3,123.17	3,135.94	3,087.57	13.23	7.95	117.03	-238.55	1,528.32	1,086.64	1,067.78	18.87	57.587		
3,450.00	3,137.33	3,124.62	3,079.20	14.12	7.92	118.53	-231.64	1,531.55	1,055.16	1,035.58	19.57	53.908		
3,500.00	3,147.36	3,111.53	3,069.38	15.06	7.88	120.07	-223.80	1,535.20	1,023.32	1,003.00	20.32	50.360		
3,550.00	3,153.17	3,100.00	3,060.60	16.02	7.84	121.78	-217.03	1,538.36	991.28	970.15	21.13	46.914		
3,577.89	3,154.56	3,088.00	3,051.33	16.57	7.81	122.58	-210.13	1,541.58	973.35	951.78	21.57	45.128		
3,600.00	3,155.14	3,080.95	3,045.82	17.01	7.79	123.32	-206.13	1,543.44	959.18	937.24	21.94	43.717		

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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
The Horned Frog - The Horned Frog 3H - Wellbore #1 - Design #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD+HRGM														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,700.00	3,157.77	3,050.00	3,021.16	19.06	7.69	126.99	-189.19	1,551.34	896.64	872.88	23.76	37.733		
3,800.00	3,160.41	3,027.23	3,002.51	21.16	7.62	131.48	-177.35	1,556.86	837.35	811.50	25.84	32.404		
3,900.00	3,163.05	3,000.00	2,979.68	23.29	7.54	136.42	-163.91	1,563.13	782.48	754.49	27.99	27.952		
4,000.00	3,165.70	2,987.69	2,969.17	25.44	7.51	142.66	-158.09	1,565.84	733.28	702.88	30.40	24.123		
4,100.00	3,168.35	2,971.88	2,955.52	27.62	7.46	149.61	-150.86	1,569.22	691.35	658.63	32.72	21.130		
4,200.00	3,171.00	2,950.00	2,936.35	29.80	7.39	157.27	-141.31	1,573.67	658.36	623.65	34.71	18.968		
4,300.00	3,173.64	2,950.00	2,936.35	32.00	7.39	166.47	-141.31	1,573.67	635.67	598.97	36.70	17.321		
4,400.00	3,176.28	2,936.04	2,923.95	34.19	7.35	175.91	-135.49	1,576.38	624.75	586.95	37.80	16.527		
4,437.67	3,177.27	2,932.54	2,920.82	35.01	7.34	179.62	-134.07	1,577.05	623.85	585.80	38.05	16.394 CC		
4,442.09	3,177.38	2,932.14	2,920.47	35.11	7.34	-179.94	-133.91	1,577.12	623.87	585.79	38.08	16.385 ES, SF		
4,500.00	3,178.90	2,927.02	2,915.88	36.38	7.32	-174.20	-131.85	1,578.08	626.83	588.60	38.23	16.395		
4,600.00	3,181.53	2,918.58	2,908.27	38.58	7.30	-164.49	-128.53	1,579.63	644.13	606.18	37.94	16.977		
4,700.00	3,184.15	2,900.00	2,891.39	40.80	7.24	-155.50	-121.50	1,582.90	675.90	639.11	36.79	18.373		
4,800.00	3,186.77	2,900.00	2,891.39	43.03	7.24	-147.51	-121.50	1,582.90	719.81	684.13	35.68	20.172		
4,900.00	3,189.40	2,900.00	2,891.39	45.27	7.24	-140.70	-121.50	1,582.90	774.22	739.86	34.37	22.529		
5,000.00	3,192.02	2,900.00	2,891.39	47.52	7.24	-134.99	-121.50	1,582.90	837.09	804.10	32.99	25.375		
5,100.00	3,194.65	2,882.75	2,875.53	49.78	7.19	-130.02	-115.34	1,585.78	906.29	874.99	31.30	28.955		
5,200.00	3,197.27	2,876.64	2,869.89	52.04	7.18	-125.94	-113.24	1,586.76	980.86	950.90	29.95	32.745		
5,300.00	3,199.89	2,870.84	2,864.50	54.31	7.16	-122.50	-111.28	1,587.67	1,059.55	1,030.81	28.74	36.869		
5,400.00	3,202.52	2,865.31	2,859.35	56.59	7.14	-119.59	-109.46	1,588.52	1,141.52	1,113.87	27.65	41.279		
5,500.00	3,205.14	2,850.00	2,845.01	58.87	7.10	-116.99	-104.59	1,590.79	1,226.21	1,199.67	26.54	46.204		
5,600.00	3,207.76	2,850.00	2,845.01	61.15	7.10	-114.90	-104.59	1,590.79	1,312.85	1,287.08	25.77	50.940		
5,700.00	3,210.39	2,850.00	2,845.01	63.44	7.10	-113.09	-104.59	1,590.79	1,401.27	1,376.17	25.10	55.837		
5,800.00	3,213.01	2,850.00	2,845.01	65.73	7.10	-111.51	-104.59	1,590.79	1,491.15	1,466.66	24.50	60.867		
5,900.00	3,215.64	2,850.00	2,845.01	68.02	7.10	-110.13	-104.59	1,590.79	1,582.25	1,558.28	23.97	66.006		
6,000.00	3,218.26	2,850.00	2,845.01	70.32	7.10	-108.90	-104.59	1,590.79	1,674.37	1,650.86	23.51	71.233		
6,100.00	3,220.88	2,832.94	2,828.91	72.62	7.05	-107.66	-99.50	1,593.17	1,767.11	1,744.22	22.90	77.180		
6,200.00	3,223.51	2,829.07	2,825.23	74.92	7.04	-106.66	-98.39	1,593.68	1,860.71	1,838.22	22.50	82.715		
6,300.00	3,226.13	2,825.35	2,821.70	77.22	7.03	-105.75	-97.34	1,594.17	1,954.92	1,932.78	22.14	88.295		
6,400.00	3,228.75	2,821.77	2,818.29	79.53	7.02	-104.94	-96.35	1,594.63	2,049.66	2,027.84	21.83	93.909		
6,500.00	3,231.38	2,818.33	2,815.01	81.84	7.01	-104.20	-95.41	1,595.07	2,144.87	2,123.32	21.55	99.544		
6,600.00	3,234.00	2,800.00	2,797.45	84.14	6.96	-103.43	-90.65	1,597.29	2,240.62	2,219.45	21.17	105.851		
6,700.00	3,236.63	2,800.00	2,797.45	86.45	6.96	-102.84	-90.65	1,597.29	2,336.52	2,315.54	20.98	111.374		
6,800.00	3,239.25	2,800.00	2,797.45	88.76	6.96	-102.29	-90.65	1,597.29	2,432.75	2,411.94	20.81	116.890		
6,900.00	3,241.87	2,800.00	2,797.45	91.08	6.96	-101.78	-90.65	1,597.29	2,529.28	2,508.61	20.67	122.393		
7,000.00	3,244.50	2,800.00	2,797.45	93.39	6.96	-101.32	-90.65	1,597.29	2,626.06	2,605.52	20.54	127.877		
7,100.00	3,247.12	2,800.00	2,797.45	95.70	6.96	-100.89	-90.65	1,597.29	2,723.07	2,702.65	20.42	133.338		
7,200.00	3,249.75	2,800.00	2,797.45	98.02	6.96	-100.48	-90.65	1,597.29	2,820.30	2,799.98	20.32	138.773		
7,300.00	3,252.37	2,800.00	2,797.45	100.34	6.96	-100.11	-90.65	1,597.29	2,917.71	2,897.47	20.24	144.176		
7,400.00	3,254.99	2,800.00	2,797.45	102.65	6.96	-99.76	-90.65	1,597.29	3,015.29	2,995.13	20.16	149.547		
7,500.00	3,257.62	2,800.00	2,797.45	104.97	6.96	-99.43	-90.65	1,597.29	3,113.03	3,092.93	20.10	154.881		
7,600.00	3,260.24	2,800.00	2,797.45	107.29	6.96	-99.12	-90.65	1,597.29	3,210.90	3,190.85	20.05	160.177		
7,700.00	3,262.86	2,800.00	2,797.45	109.61	6.96	-98.83	-90.65	1,597.29	3,308.90	3,288.90	20.00	165.433		
7,800.00	3,265.49	2,800.00	2,797.45	111.93	6.96	-98.56	-90.65	1,597.29	3,407.02	3,387.05	19.97	170.646		
7,900.00	3,268.11	2,781.15	2,779.25	114.25	6.91	-98.24	-86.18	1,599.38	3,505.05	3,485.23	19.83	176.793		
8,000.00	3,270.74	2,779.09	2,777.26	116.57	6.90	-97.99	-85.72	1,599.59	3,603.33	3,583.54	19.80	182.032		
8,100.00	3,273.36	2,777.09	2,775.32	118.89	6.90	-97.76	-85.28	1,599.80	3,701.70	3,681.93	19.77	187.221		
8,200.00	3,275.98	2,775.15	2,773.44	121.21	6.89	-97.53	-84.85	1,600.00	3,800.15	3,780.40	19.76	192.361		
8,300.00	3,278.61	2,773.27	2,771.61	123.54	6.89	-97.32	-84.44	1,600.19	3,898.68	3,878.93	19.75	197.450		
8,400.00	3,281.23	2,771.44	2,769.84	125.86	6.88	-97.13	-84.05	1,600.37	3,997.27	3,977.53	19.74	202.488		
8,500.00	3,283.85	2,769.66	2,768.11	128.18	6.88	-96.94	-83.67	1,600.55	4,095.93	4,076.19	19.74	207.474		
8,600.00	3,286.48	2,750.00	2,748.93	130.51	6.83	-96.71	-79.75	1,602.37	4,194.81	4,175.14	19.67	213.245		

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



Stryker Directional
Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Offset Design The Horned Frog - The Horned Frog 3H - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-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)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,700.00	3,289.10	2,750.00	2,748.93	132.83	6.83	-96.54	-79.75	1,602.37	4,293.56	4,273.87	19.69	218.047	
8,800.00	3,291.73	2,750.00	2,748.93	135.15	6.83	-96.38	-79.75	1,602.37	4,392.36	4,372.65	19.71	222.798	
8,900.00	3,294.35	2,750.00	2,748.93	137.48	6.83	-96.23	-79.75	1,602.37	4,491.22	4,471.48	19.74	227.497	
9,000.00	3,296.97	2,750.00	2,748.93	139.80	6.83	-96.09	-79.75	1,602.37	4,590.13	4,570.35	19.77	232.145	
9,001.40	3,297.01	2,750.00	2,748.93	139.84	6.83	-96.09	-79.75	1,602.37	4,591.51	4,571.73	19.77	232.210	

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

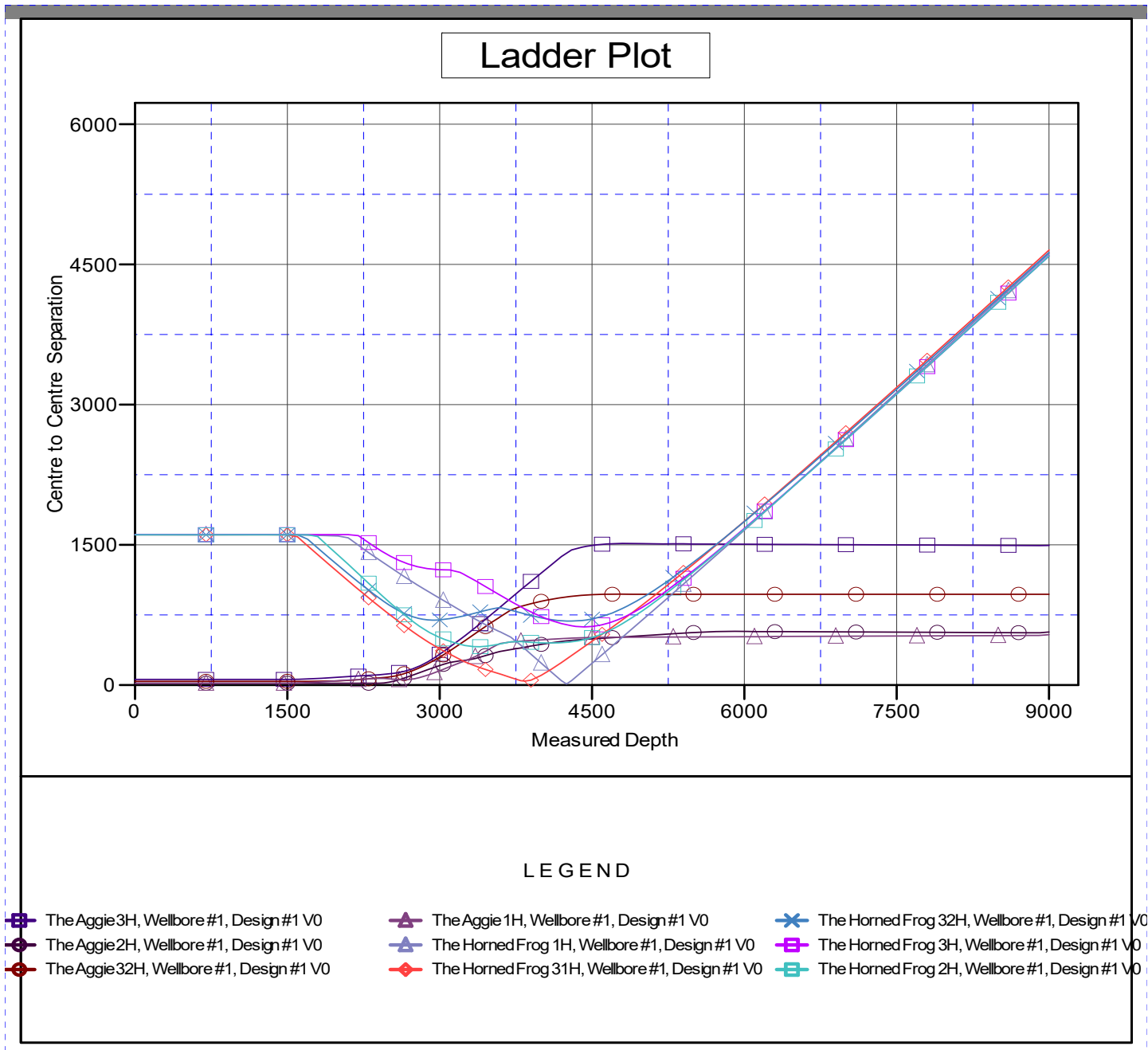


Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3311.00usft (20' Rig) Coordinates are relative to: The Aggie 31H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.333334 Grid Convergence at Surface is: 0.00°



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



Stryker Directional Anticollision Report



Company:	Riley Permian	Local Co-ordinate Reference:	Well The Aggie 31H
Project:	Eddy County, New Mexico (NAD83)	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Reference Site:	The Aggie	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Server
Reference Design:	Design #2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3311.00usft (20' Rig)

Coordinates are relative to: The Aggie 31H

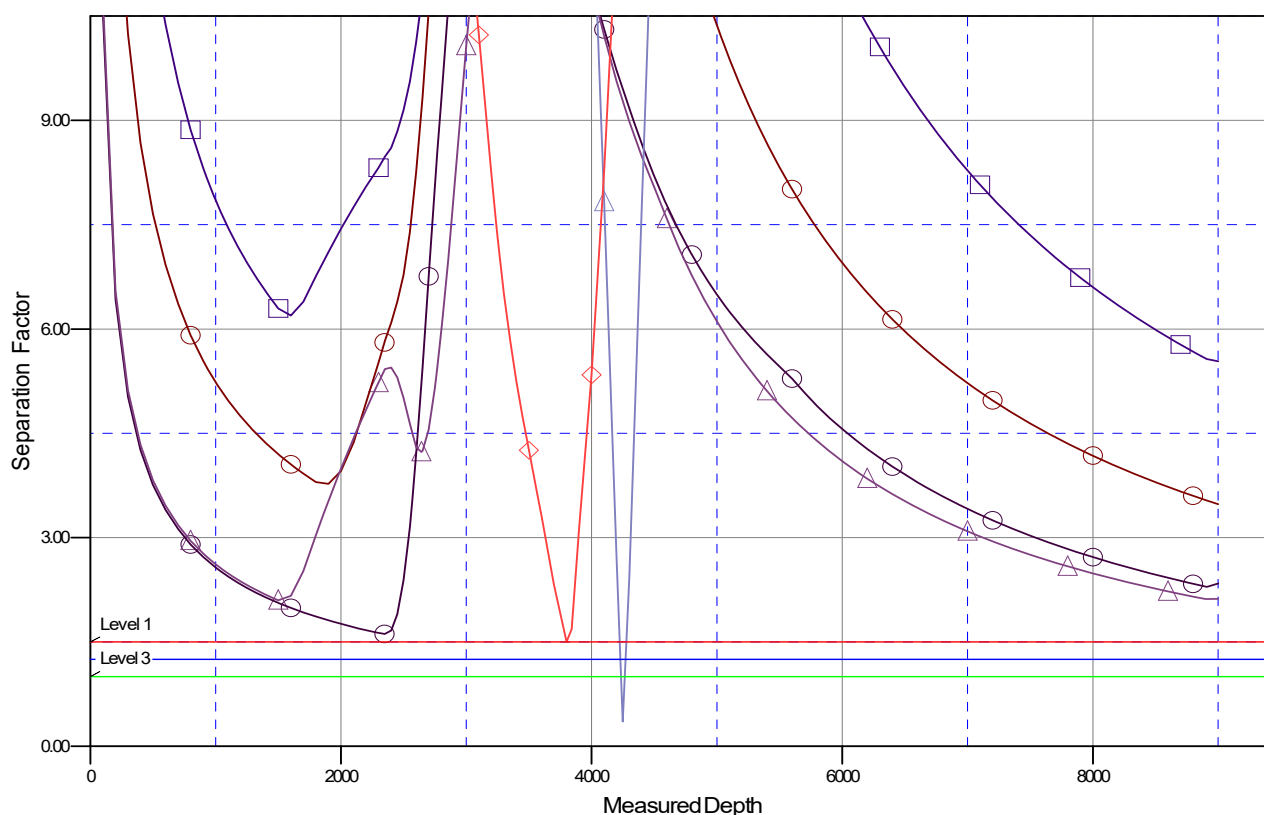
Offset Depths are relative to Offset Datum

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

Central Meridian is -104.333334

Grid Convergence at Surface is: 0.00°

Separation Factor Plot



LEGEND

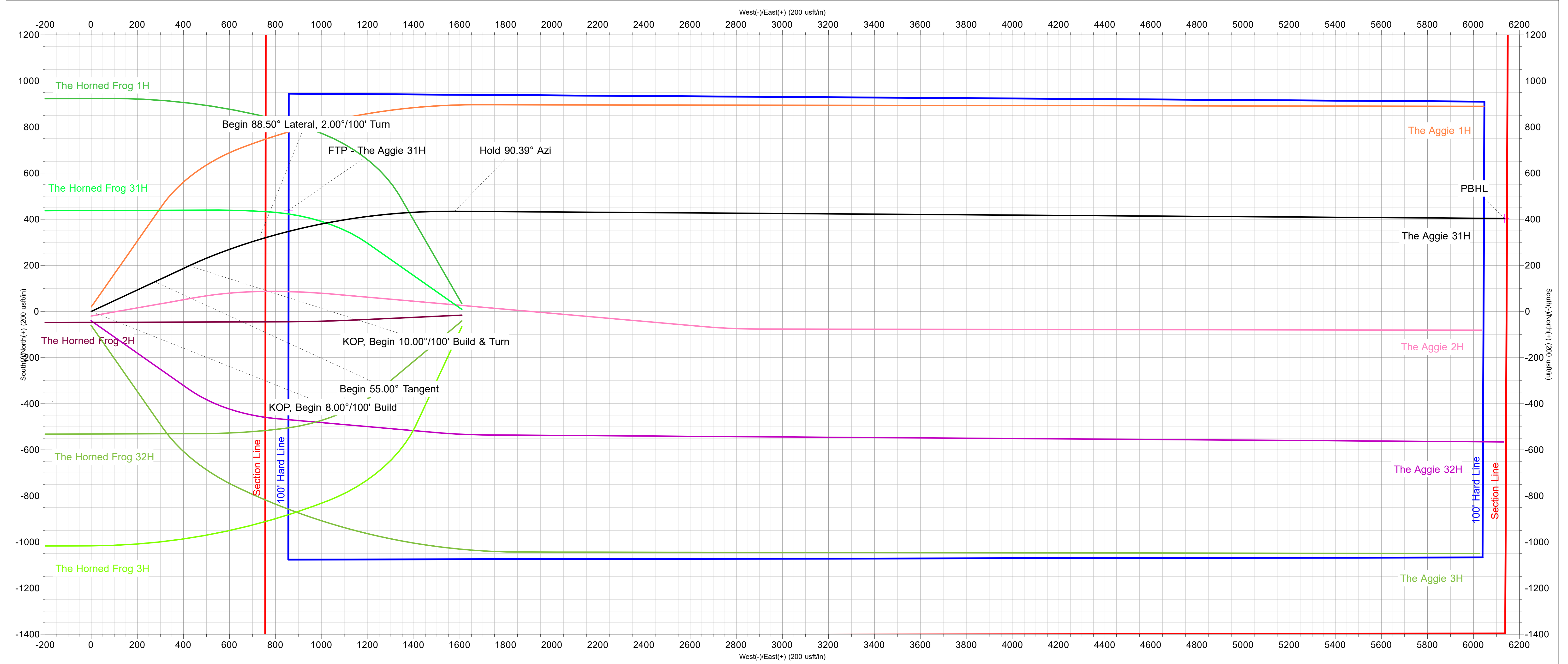
- The Aggie3H, Wellbore #1, Design #1 V0
- ▲ The Aggie 1H, Wellbore #1, Design #1 V0
- ✕ The Horned Frog 32H, Wellbore #1, Design #1 V0
- The Aggie2H, Wellbore #1, Design #1 V0
- ▲ The Horned Frog 1H, Wellbore #1, Design #1 V0
- The Horned Frog 3H, Wellbore #1, Design #1 V0
- The Aggie32H, Wellbore #1, Design #1 V0
- ◆ The Horned Frog 31H, Wellbore #1, Design #1 V0
- The Horned Frog 2H, Wellbore #1, Design #1 V0



Company: Riley Permian
 Site: The Aggie
 Well: The Aggie 31H
 Project: Eddy County, New Mexico (NAD83)
 Rig: 20' Rig



To convert a Magnetic Direction to a Grid Direction, Add 6.58°



ANNOTATIONS

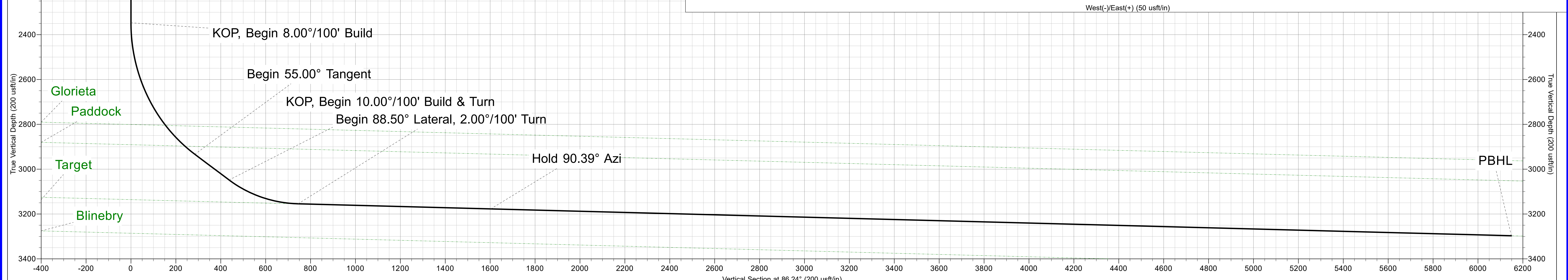
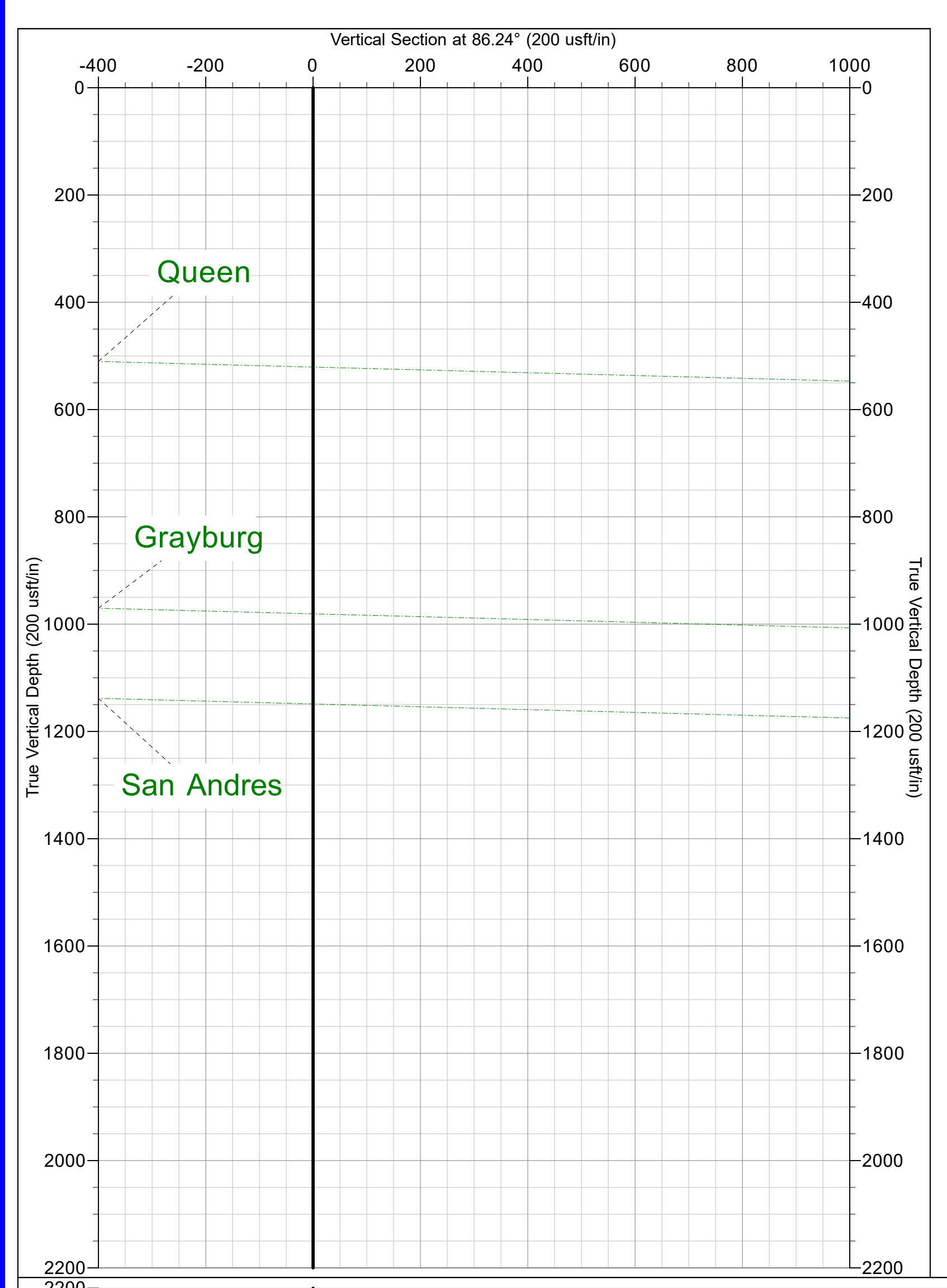
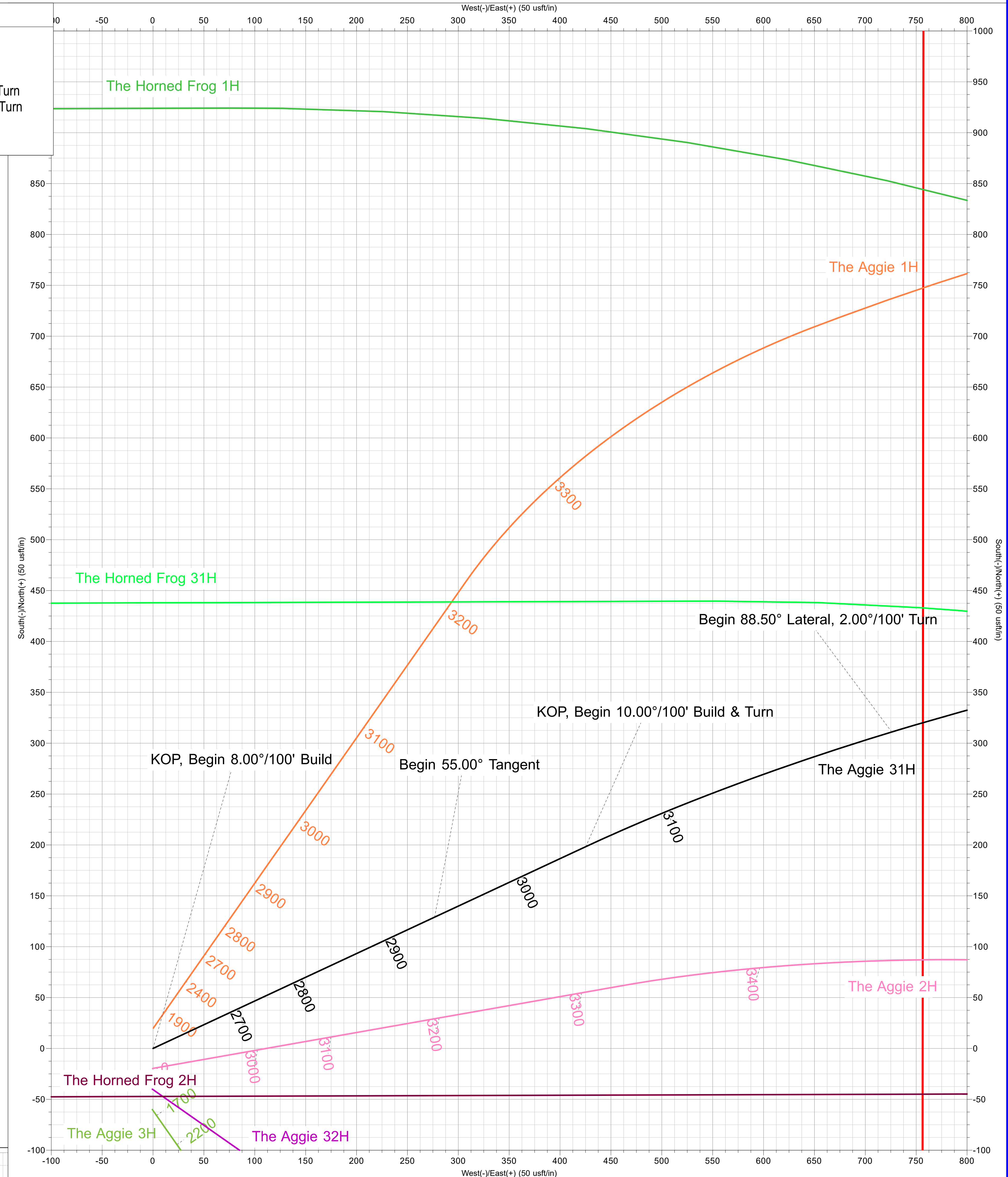
MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
2347.00	0.00	0.00	2347.00	0.00	0.00	0.00	0.00	KOP, Begin 8.00°/100' Build
3034.50	55.00	65.00	2933.67	129.07	276.79	284.66	305.40	Begin 55.00° Tangent
3234.50	55.00	65.00	3048.39	198.31	425.27	437.37	469.23	KOP, Begin 10.00°/100' Build & Turn
3577.89	88.50	73.10	3154.56	311.03	726.02	744.87	790.67	Begin 88.50° Lateral, 2.00°/100' Turn
4442.09	88.50	90.39	3177.38	434.60	1577.72	1602.84	1654.56	Hold 90.39° Azi
9001.40	88.50	90.39	3297.01	403.58	6135.36	6148.62	6212.31	PBHL

Azimuths to Grid North
 True North: 0.00°
 Magnetic North: 6.58°

Magnetic Field
 Strength: 47243.3nT
 Dip Angle: 60.24°
 Date: 2/19/2026
 Model: ROUNDLAB_HRGM

US State Plane 1983
 New Mexico Eastern Zone

Created By: JAB
 Date: 16:16, February 24 2026
 Plan: Design #2





Riley Permian

Eddy County, New Mexico (NAD83)

The Aggie

The Aggie 31H

Wellbore #1

Plan: Design #2

Standard Planning Report

24 February, 2026





Stryker Directional Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Aggie 31H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Aggie	North Reference:	Grid
Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project	Eddy County, New Mexico (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	The Aggie				
Site Position:		Northing:	631,897.39 usft	Latitude:	32.737124
From:	Lat/Long	Easting:	542,569.69 usft	Longitude:	-104.329326
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	The Aggie 31H					
Well Position	+N/-S	0.00 usft	Northing:	631,897.39 usft	Latitude:	32.737124
	+E/-W	0.00 usft	Easting:	542,569.69 usft	Longitude:	-104.329326
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,291.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	OUNDLAB_HRGM	2/19/2026	6.58	60.24	47,243.31340392

Design	Design #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	86.24

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,347.00	0.00	0.00	2,347.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,034.50	55.00	65.00	2,933.67	129.07	276.79	8.00	8.00	0.00	65.00	
3,234.50	55.00	65.00	3,048.39	198.31	425.27	0.00	0.00	0.00	0.00	
3,577.89	88.50	73.10	3,154.56	311.03	726.02	10.00	9.76	2.36	14.46	
4,442.09	88.50	90.39	3,177.38	434.60	1,577.72	2.00	0.00	2.00	90.24	
9,001.40	88.50	90.39	3,297.01	403.58	6,135.36	0.00	0.00	0.00	0.00	PBHL - The Aggie 3



Stryker Directional
Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Aggie 31H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Aggie	North Reference:	Grid
Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
521.00	0.00	0.00	521.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
981.00	0.00	0.00	981.00	0.00	0.00	0.00	0.00	0.00	0.00
Grayburg									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,149.00	0.00	0.00	1,149.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,347.00	0.00	0.00	2,347.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 8.00°/100' Build									
2,350.00	0.24	65.00	2,350.00	0.00	0.01	0.01	8.00	8.00	0.00
2,400.00	4.24	65.00	2,399.95	0.83	1.78	1.83	8.00	8.00	0.00
2,450.00	8.24	65.00	2,449.65	3.12	6.70	6.89	8.00	8.00	0.00
2,500.00	12.24	65.00	2,498.84	6.88	14.76	15.17	8.00	8.00	0.00
2,550.00	16.24	65.00	2,547.29	12.08	25.90	26.64	8.00	8.00	0.00
2,600.00	20.24	65.00	2,594.77	18.69	40.08	41.22	8.00	8.00	0.00
2,650.00	24.24	65.00	2,641.04	26.69	57.23	58.86	8.00	8.00	0.00
2,700.00	28.24	65.00	2,685.88	36.03	77.26	79.46	8.00	8.00	0.00
2,750.00	32.24	65.00	2,729.07	46.67	100.08	102.92	8.00	8.00	0.00
2,800.00	36.24	65.00	2,770.39	58.55	125.57	129.14	8.00	8.00	0.00
2,843.98	39.76	65.00	2,805.04	69.99	150.10	154.37	8.00	8.00	0.00
Glorieta									
2,850.00	40.24	65.00	2,809.66	71.63	153.61	157.98	8.00	8.00	0.00
2,900.00	44.24	65.00	2,846.67	85.83	184.07	189.30	8.00	8.00	0.00
2,950.00	48.24	65.00	2,881.24	101.09	216.79	222.96	8.00	8.00	0.00
2,974.58	50.21	65.00	2,897.29	108.96	233.66	240.31	8.00	8.00	0.00
Paddock									
3,000.00	52.24	65.00	2,913.21	117.33	251.62	258.78	8.00	8.00	0.00
3,034.50	55.00	65.00	2,933.67	129.07	276.79	284.66	8.00	8.00	0.00
Begin 55.00° Tangent									
3,100.00	55.00	65.00	2,971.24	151.74	325.42	334.68	0.00	0.00	0.00



Stryker Directional Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Aggie 31H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Aggie	North Reference:	Grid
Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,200.00	55.00	65.00	3,028.60	186.36	399.66	411.03	0.00	0.00	0.00	
3,234.50	55.00	65.00	3,048.39	198.31	425.27	437.37	0.00	0.00	0.00	
KOP, Begin 10.00°/100' Build & Turn										
3,250.00	56.50	65.46	3,057.11	203.67	436.90	449.33	10.00	9.69	2.99	
3,300.00	61.36	66.86	3,082.91	220.96	476.07	489.55	10.00	9.71	2.79	
3,350.00	66.23	68.13	3,104.99	238.12	517.50	532.02	10.00	9.74	2.54	
3,400.00	71.10	69.31	3,123.17	255.01	560.89	576.42	10.00	9.76	2.36	
3,450.00	75.99	70.42	3,137.33	271.50	605.90	622.41	10.00	9.77	2.23	
3,500.00	80.88	71.49	3,147.36	287.47	652.19	669.65	10.00	9.78	2.13	
3,550.00	85.77	72.53	3,153.17	302.81	699.41	717.78	10.00	9.79	2.07	
3,577.89	88.50	73.10	3,154.56	311.03	726.02	744.87	10.00	9.79	2.05	
Begin 88.50° Lateral, 2.00°/100' Turn										
3,600.00	88.50	73.54	3,155.14	317.38	747.19	766.41	2.00	-0.01	2.00	
3,700.00	88.49	75.54	3,157.77	344.02	843.54	864.30	2.00	-0.01	2.00	
3,800.00	88.49	77.54	3,160.41	367.28	940.75	962.83	2.00	-0.01	2.00	
3,900.00	88.48	79.54	3,163.05	387.14	1,038.72	1,061.89	2.00	0.00	2.00	
4,000.00	88.48	81.55	3,165.70	403.56	1,137.32	1,161.36	2.00	0.00	2.00	
4,100.00	88.48	83.55	3,168.35	416.52	1,236.44	1,261.11	2.00	0.00	2.00	
4,200.00	88.48	85.55	3,171.00	426.03	1,335.94	1,361.03	2.00	0.00	2.00	
4,300.00	88.49	87.55	3,173.64	432.05	1,435.72	1,460.98	2.00	0.00	2.00	
4,400.00	88.49	89.55	3,176.28	434.58	1,535.65	1,560.86	2.00	0.01	2.00	
4,442.09	88.50	90.39	3,177.38	434.60	1,577.72	1,602.84	2.00	0.01	2.00	
Hold 90.39° Azi										
4,500.00	88.50	90.39	3,178.90	434.21	1,635.61	1,660.59	0.00	0.00	0.00	
4,600.00	88.50	90.39	3,181.53	433.53	1,735.58	1,760.29	0.00	0.00	0.00	
4,700.00	88.50	90.39	3,184.15	432.85	1,835.54	1,859.99	0.00	0.00	0.00	
4,800.00	88.50	90.39	3,186.77	432.17	1,935.50	1,959.70	0.00	0.00	0.00	
4,900.00	88.50	90.39	3,189.40	431.49	2,035.47	2,059.40	0.00	0.00	0.00	
5,000.00	88.50	90.39	3,192.02	430.81	2,135.43	2,159.10	0.00	0.00	0.00	
5,100.00	88.50	90.39	3,194.65	430.13	2,235.39	2,258.81	0.00	0.00	0.00	
5,200.00	88.50	90.39	3,197.27	429.45	2,335.36	2,358.51	0.00	0.00	0.00	
5,300.00	88.50	90.39	3,199.89	428.77	2,435.32	2,458.21	0.00	0.00	0.00	
5,400.00	88.50	90.39	3,202.52	428.09	2,535.28	2,557.91	0.00	0.00	0.00	
5,500.00	88.50	90.39	3,205.14	427.41	2,635.25	2,657.62	0.00	0.00	0.00	
5,600.00	88.50	90.39	3,207.76	426.72	2,735.21	2,757.32	0.00	0.00	0.00	
5,700.00	88.50	90.39	3,210.39	426.04	2,835.17	2,857.02	0.00	0.00	0.00	
5,800.00	88.50	90.39	3,213.01	425.36	2,935.14	2,956.73	0.00	0.00	0.00	
5,900.00	88.50	90.39	3,215.64	424.68	3,035.10	3,056.43	0.00	0.00	0.00	
6,000.00	88.50	90.39	3,218.26	424.00	3,135.06	3,156.13	0.00	0.00	0.00	
6,100.00	88.50	90.39	3,220.88	423.32	3,235.03	3,255.84	0.00	0.00	0.00	
6,200.00	88.50	90.39	3,223.51	422.64	3,334.99	3,355.54	0.00	0.00	0.00	
6,300.00	88.50	90.39	3,226.13	421.96	3,434.95	3,455.24	0.00	0.00	0.00	
6,400.00	88.50	90.39	3,228.75	421.28	3,534.92	3,554.94	0.00	0.00	0.00	
6,500.00	88.50	90.39	3,231.38	420.60	3,634.88	3,654.65	0.00	0.00	0.00	
6,600.00	88.50	90.39	3,234.00	419.92	3,734.84	3,754.35	0.00	0.00	0.00	
6,700.00	88.50	90.39	3,236.63	419.24	3,834.81	3,854.05	0.00	0.00	0.00	
6,800.00	88.50	90.39	3,239.25	418.56	3,934.77	3,953.76	0.00	0.00	0.00	
6,900.00	88.50	90.39	3,241.87	417.88	4,034.73	4,053.46	0.00	0.00	0.00	
7,000.00	88.50	90.39	3,244.50	417.20	4,134.70	4,153.16	0.00	0.00	0.00	
7,100.00	88.50	90.39	3,247.12	416.52	4,234.66	4,252.87	0.00	0.00	0.00	
7,200.00	88.50	90.39	3,249.75	415.84	4,334.62	4,352.57	0.00	0.00	0.00	
7,300.00	88.50	90.39	3,252.37	415.16	4,434.59	4,452.27	0.00	0.00	0.00	
7,400.00	88.50	90.39	3,254.99	414.48	4,534.55	4,551.98	0.00	0.00	0.00	



Stryker Directional
Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Aggie 31H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Aggie	North Reference:	Grid
Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,500.00	88.50	90.39	3,257.62	413.80	4,634.51	4,651.68	0.00	0.00	0.00	
7,600.00	88.50	90.39	3,260.24	413.12	4,734.47	4,751.38	0.00	0.00	0.00	
7,700.00	88.50	90.39	3,262.86	412.44	4,834.44	4,851.08	0.00	0.00	0.00	
7,800.00	88.50	90.39	3,265.49	411.76	4,934.40	4,950.79	0.00	0.00	0.00	
7,900.00	88.50	90.39	3,268.11	411.08	5,034.36	5,050.49	0.00	0.00	0.00	
8,000.00	88.50	90.39	3,270.74	410.40	5,134.33	5,150.19	0.00	0.00	0.00	
8,100.00	88.50	90.39	3,273.36	409.72	5,234.29	5,249.90	0.00	0.00	0.00	
8,200.00	88.50	90.39	3,275.98	409.04	5,334.25	5,349.60	0.00	0.00	0.00	
8,300.00	88.50	90.39	3,278.61	408.36	5,434.22	5,449.30	0.00	0.00	0.00	
8,400.00	88.50	90.39	3,281.23	407.68	5,534.18	5,549.01	0.00	0.00	0.00	
8,500.00	88.50	90.39	3,283.85	407.00	5,634.14	5,648.71	0.00	0.00	0.00	
8,600.00	88.50	90.39	3,286.48	406.32	5,734.11	5,748.41	0.00	0.00	0.00	
8,700.00	88.50	90.39	3,289.10	405.64	5,834.07	5,848.11	0.00	0.00	0.00	
8,800.00	88.50	90.39	3,291.73	404.95	5,934.03	5,947.82	0.00	0.00	0.00	
8,900.00	88.50	90.39	3,294.35	404.27	6,034.00	6,047.52	0.00	0.00	0.00	
8,979.69	88.50	90.39	3,296.44	403.73	6,113.66	6,126.98	0.00	0.00	0.00	
Target										
9,001.40	88.50	90.39	3,297.01	403.58	6,135.36	6,148.62	0.00	0.00	0.00	
PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP - The Aggie 31H - hit/miss target - Shape - Point	0.00	0.00	2,997.72	439.20	857.00	632,336.56	543,426.61	32.738331	-104.326539	
- plan misses target center by 183.92usft at 3731.02usft MD (3158.58 TVD, 351.60 N, 873.60 E)										
PBHL - The Aggie 31H - plan hits target center - Point	0.00	0.00	3,297.01	403.58	6,135.36	632,300.94	548,704.49	32.738231	-104.309374	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
521.00	521.00	Queen		1.50	86.24	
981.00	981.00	Grayburg		1.50	86.24	
1,149.00	1,149.00	San Andres		1.50	86.24	
2,843.98	2,805.04	Glorieta		1.50	86.24	
2,974.58	2,897.29	Paddock		1.50	86.24	
8,979.69	3,296.44	Target		1.50	86.24	



Stryker Directional
Planning Report



Database:	EDM 5000.1 Server	Local Co-ordinate Reference:	Well The Aggie 31H
Company:	Riley Permian	TVD Reference:	RKB @ 3311.00usft (20' Rig)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	RKB @ 3311.00usft (20' Rig)
Site:	The Aggie	North Reference:	Grid
Well:	The Aggie 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,347.00	2,347.00	0.00	0.00	KOP, Begin 8.00°/100' Build
3,034.50	2,933.67	129.07	276.79	Begin 55.00° Tangent
3,234.50	3,048.39	198.31	425.27	KOP, Begin 10.00°/100' Build & Turn
3,577.89	3,154.56	311.03	726.02	Begin 88.50° Lateral, 2.00°/100' Turn
4,442.09	3,177.38	434.60	1,577.72	Hold 90.39° Azi
9,001.40	3,297.01	403.58	6,135.36	PBHL

State of New Mexico
 Energy, Minerals and Natural Resources Department

Submit Electronically
 Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

- I. Operator:** Burnett Oil Company **OGRID:** 3080 **Date:** 12/10/2025
- II. Type:** Original Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other.

If Other, please describe: Amended to reflect well name changes and interest owner pooling concerns.

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
The Aggie #1H	30-015-55570	A-24-18S-26E	1226 FNL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D
The Aggie #31H	30-015-55899	A-24-18S-26E	1246 FNL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D
The Aggie #2H	30-015-55571	A-24-18S-26E	1266 FNL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D
The Aggie #32H	30-015-55898	A-24-18S-26E	1286 FNL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D
The Aggie #3H	30-015-55572	A-24-18S-26E	1306 FNL 800 FEL	550 BBL/D	550 MCF/D	2500 BBL/D

IV. Central Delivery Point Name: The Aggie Battery [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
The Aggie #1H	30-015-55570	1/5/2026	1/15/2026	4/1/2026	4/15/2026	4/15/2026
The Aggie #31H	30-015-55899	5/1/2026	5/11/2026	6/26/2026	7/6/2026	7/6/2026
The Aggie #2H	30-015-55571	1/16/2026	1/31/2026	4/1/2026	4/15/2026	4/15/2026
The Aggie #32H	30-015-55898	5/12/2026	5/22/2026	7/10/2026	7/20/2026	7/20/2026
The Aggie #3H	30-015-55572	2/01/2026	2/15/2026	4/1/2026	4/15/2026	4/15/2026

- VI. **Separation Equipment:** Attach a complete description of how Operator will size separation equipment to optimize gas capture. ✓
- VII. **Operational Practices:** Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- VIII. **Best Management Practices:** Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 - Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

0 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. D Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system D will D will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

D Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: D Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection

D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

Signature:	<i>Randy Bolles</i>
Printed Name:	Randy Bolles
Title:	President, Randy Bolles Consulting, LLC
E-mail Address:	rbolles@cox.net
Date:	12/10/2025
Phone:	405-738-0183

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

Section 1 – Attachments

Company: Burnett Oil Company, Inc Well Name: The Aggie 1H API#: 30-015-55570

VI. Separation Equipment: Description of how Operator will size separation equipment to optimize gas capture. A.

This well will be added to an existing tank battery.

B. The engineered system is designed to handle 11,500 MCF/D. It will produce through the following vessels:

1. 2-phase separator,
2. free-water knockout,
3. heater treater, and then finally a
4. 2-phase gas scrubber.

C. Current battery throughput is 0 MCF/D.

D. The referenced well is anticipated to produce a maximum of 550 MCF/D for a total throughput of 550 MCF/D.

VII. Operational Practices: Description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

- A. In all circumstances, the operator shall flare rather than vent natural gas except when flaring is technically infeasible or would pose a risk to safe operations or personnel safety, and venting is a safer alternative than flaring.
- B. During drilling operations a mud/gas separator will be on location. If needed, it will be utilized to capture natural gas for purposes of flaring. If flaring is required, a properly-sized flare stack will be at a minimum of 100' from the nearest surface hole location unless otherwise approved by the division.
- C. Venting and flaring during completion or recompletion operations
 1. During completion or recompletion, gas is trapped/retained in the wellbore through use of properly weighted "kill" fluids.
 2. During the completion phase, the well will be routed directly into an existing battery. With this initial flowback already being connected to the existing battery, all flowback gasses will be routed, if applicable, only to flare. No venting will occur during this initial flowback period. As soon as it is feasible, the existing separation will be utilized.
- D. Equipment redundancies within the system, along with the overall battery design, enables us to service equipment without interruption to gas flow in most scenarios. With the existing battery compression at this facility, in most cases we can avoid flaring during times of elevated transmission line pressures caused by

mid-stream maintenance. Additionally, we have gas takeaway with two (2) midstream companies to try and keep gas going to sales in case one of them has a problem.

1 2

E. Performance Standards

1. The existing facility is designed for maximum anticipated throughput and pressure to minimize waste.
2. The existing storage tanks are routed to a combustor.
3. The existing flare stack is properly sized and designed to ensure proper combustion efficiency.
4. The existing flare stack is securely anchored and located at least 100 feet from the storage tanks.
5. AVO inspections are conducted weekly.
6. NA
7. NA
8. We strive to minimize waste and shall resolve emergencies as quickly and safely as possible.

F. Measurement or estimation of vented and flared natural gas

1. We shall measure or estimate the volume of natural gas that is vented, flared, or beneficially used during drilling, completion and production operations regardless of the reason or authorization for such venting or flaring.
2. The existing flare has a meter to measure the gas going to it.
3. The measurement equipment conforms to an industry standard such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares
4. The measuring equipment is not equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.
5. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, the operator will estimate the volume of vented or flared natural gas using a methodology that can be independently verified.
6. NA
7. The operator shall install measuring equipment whenever the division determines that metering is practicable or the existing measuring equipment or GOR test is not sufficient to measure the volume of vented and flared natural gas.

VIII. Best Management Practices: Operator's best management practices to minimize venting during active and planned maintenance.

- A. The existing facility is designed for maximum anticipated throughput and pressure to minimize waste.
- B. Equipment redundancies within the system, along with the overall battery design, enables us to service equipment without interruption to gas flow in most scenarios. With the existing battery compression at this facility, in most cases we can avoid flaring during times of elevated transmission line pressures caused by mid-stream maintenance.

Page of

- C. During well maintenance, gas is trapped/retained in the wellbore through use of properly weighted “kill” fluids.
- D. Additionally, we have gas takeaway with two (2) midstream companies to try and keep gas going to sales in case one of them has a problem.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 558507

CONDITIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 558507
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	3/23/2026