

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

Form C-101
August 1, 2011
Permit 408737

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue, Suite 500 Oklahoma City, OK 73104		2. OGRID Number 372290
4. Property Code 338822		3. API Number 30-015-57814
5. Property Name Uli 12 Fee		6. Well No. 031H

7. Surface Location

UL - Lot P	Section 11	Township 18S	Range 26E	Lot Idn	Feet From 497	N/S Line S	Feet From 411	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot P	Section 12	Township 18S	Range 26E	Lot Idn SESE	Feet From 500	N/S Line S	Feet From 10	E/W Line E	County Eddy
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9. Pool Information

RED LAKE:GLORIETA-YESO	51120
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3306
16. Multiple N	17. Proposed Depth 9140	18. Formation Blinebry	19. Contractor	20. Spud Date 12/31/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1250	645	0
Prod	8.75	7	32	3750	200	0
Prod	8.75	5.5	20	9140	1575	3750

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	3500	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Spence Laird Title: EHSR Email Address: spencelaird@rileyperman.com Date: 2/11/2026	Approved By: Jeffrey Harrison Title: Petroleum Specialist III Approved Date: 2/13/2026 Expiration Date: 2/13/2028 Conditions of Approval Attached

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: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
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Property Name and Well Number
ULI 12 FEE 31H

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-57814	Pool Code 51120	Pool Name Red Lake; Glorieta Yeso
Property Code 338822	Property Name ULI 12 FEE	
OGRID No. 372290	Operator Name RILEY PERMIAN OPERATING COMPANY LLC	
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal
		Well Number 31H
		Ground Level Elevation 3306'

Surface Location

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	11	18 S	26 E		497 FSL	411 FEL	N 32.756515°	W 104.345255°	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
P	12	18 S	26 E		500 FSL	10 FEL	N 32.756669°	W 104.326502°	EDDY

Dedicated Acres 160	Infill or Defining Well Infill	Defining Well API 30-015-57798	Overlapping Spacing Unit (Y/N)	Consolidated Code NA
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Order Numbers _____ 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
P	11	18 S	26 E		490 FSL	702 FEL	N 32.756499°	W 104.346201°	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
M	12	18 S	26 E		500 FSL	100 FWL	N 32.756521°	W 104.343593°	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
P	12	18 S	26 E		500 FSL	100 FEL	N 32.756666°	W 104.326795°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3331'
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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: **2-10-2026**

Print Name: **Alex Rizzo**

E-mail Address: **Alex.rizzo@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 **SEPTEMBER 4, 2025**

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

ULI 12 FEE 31H

SURFACE LOCATION

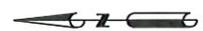
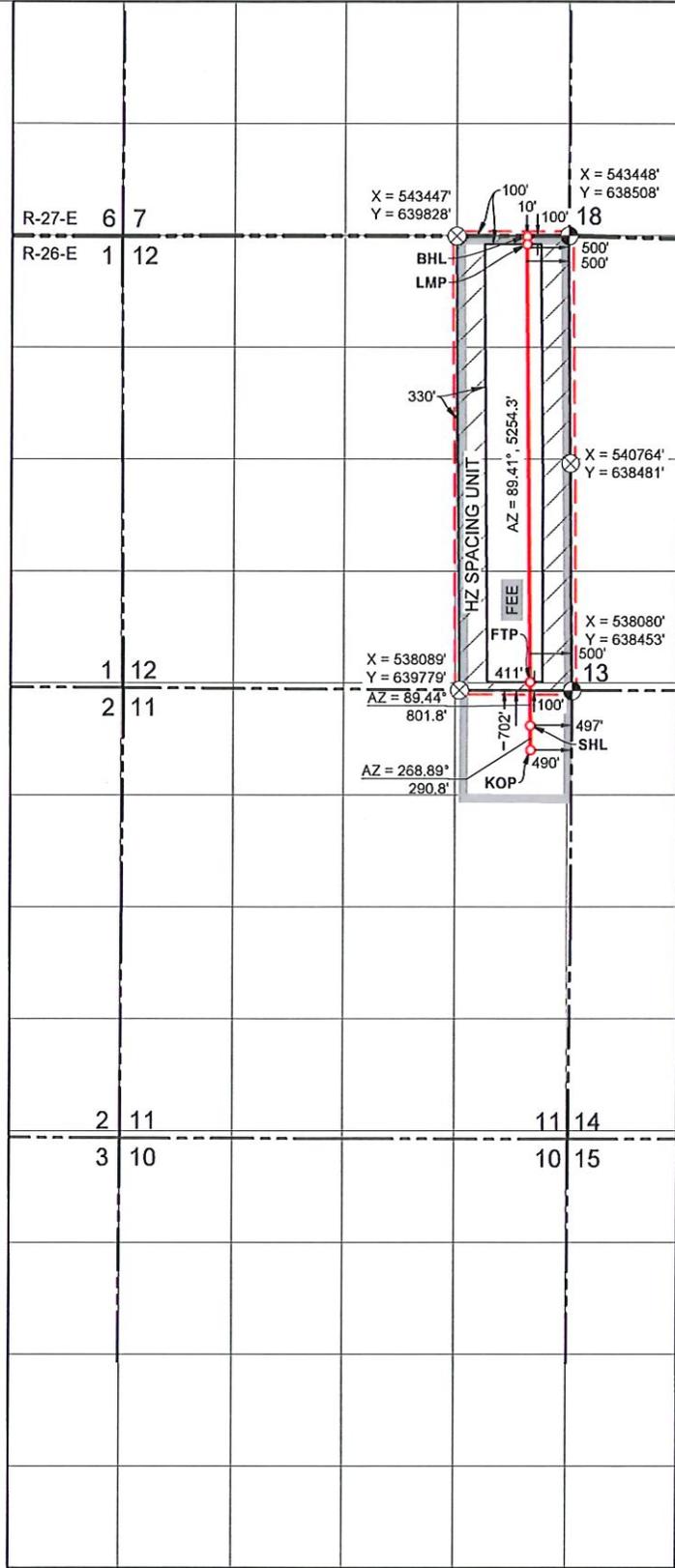
NEW MEXICO EAST
NAD 1983
X=537673' Y=638952'
LAT=N32.756515°
LONG=W104.345255°
NAD 1927
X=496494' Y=638890'
LAT=N32.756400°
LONG=W104.344739°
497' FSL 411' FEL

KOP LOCATION
NEW MEXICO EAST
NAD 1983
X=537382' Y=638946'
LAT=N32.756499°
LONG=W104.346201°
NAD 1927
X=496203' Y=638884'
LAT=N32.756385°
LONG=W104.345685°
490' FSL 702' FEL

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=538184' Y=638954'
LAT=N32.756521°
LONG=W104.343593°
NAD 1927
X=497005' Y=638892'
LAT=N32.756406°
LONG=W104.343077°
500' FSL 100' FWL

LOWER MOST PERF.
NEW MEXICO EAST
NAD 1983
X=543348' Y=639007'
LAT=N32.756666°
LONG=W104.326795°
NAD 1927
X=502169' Y=638945'
LAT=N32.756552°
LONG=W104.326279°
500' FSL 100' FEL

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=543438' Y=639008'
LAT=N32.756669°
LONG=W104.326502°
NAD 1927
X=502259' Y=638946'
LAT=N32.756554°
LONG=W104.325986°
500' FSL 10' FEL



\\snp\apps\mnpa\cadd\2024\20240709\ULI_12_FEE_31H.dwg ARYKAT 202408 2:28 PM

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.

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Oil Conservation Division
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Form APD Comments

Permit 408737

PERMIT COMMENTS

Operator Name and Address: RILEY PERMIAN OPERATING COMPANY, LLC [372290] 29 E Reno Avenue, Suite 500 Oklahoma City, OK 73104		API Number: 30-015-57814
		Well: Uli 12 Fee #031H
Created By	Comment	Comment Date
jeffrey.harrison	Infill to 30-015-57798	2/13/2026

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

Form APD Conditions

Permit 408737

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: RILEY PERMIAN OPERATING COMPANY, LLC [372290] 29 E Reno Avenue, Suite 500 Oklahoma City, OK 73104	API Number: 30-015-57814
	Well: Uli 12 Fee #031H

OCD Reviewer	Condition
jeffrey.harrison	If using a pit for drilling and completion operations, operator must have an approved pit prior to spudding the well.
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	This well is within the Roswell Artesian Basin. Operator must adhere to all 19.15.39.11 NMAC regulations.
jeffrey.harrison	This well is in the Roswell Aquifer. Casing must be set and cemented back to surface to protect the Roswell Aquifer.
jeffrey.harrison	Brine water shall not be used in the Roswell Artesian Aquifer. Only fresh water shall be utilized until the Roswell Artesian Aquifer is cased and cemented.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Cement is required to circulate on both surface and production strings of casing.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

RILEY PERMIAN OPERATING CO,. LLC

Eddy County, NM (NAD83) NMEZ Grid

ULI Pad

ULI 12 Fee 31H

31H

Plan #1

Anticollision Report

28 January, 2026

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 50.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Unknown AC limit!	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	01/28/26		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	9,140.32	Plan #1 (31H)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ULI Pad						
ULI 12 Fee 11H - 11H - Plan #1	921.61	913.92	55.97	45.87	5.540	CC
ULI 12 Fee 11H - 11H - Plan #1	967.86	959.05	56.19	45.51	5.262	ES
ULI 12 Fee 11H - 11H - Plan #1	9,140.32	8,512.78	735.11	579.32	4.719	SF
ULI 12 Fee 22H - 22H - Plan #1	825.13	820.93	28.87	19.67	3.138	CC
ULI 12 Fee 22H - 22H - Plan #1	900.00	894.95	29.16	19.13	2.907	ES
ULI 12 Fee 22H - 22H - Plan #1	9,140.32	8,829.97	362.22	201.32	2.251	SF

Offset Design													Offset Site Error:	0.00 usft
ULI Pad - ULI 12 Fee 11H - 11H - Plan #1													Offset Well Error:	0.00 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-60.00	60.00					
50.00	50.00	50.00	50.00	0.10	0.14	-90.00	0.00	-60.00	60.00	59.81	0.19	312.909		
100.00	100.00	100.00	100.00	0.29	0.29	-90.00	0.00	-60.00	60.00	59.55	0.45	133.088		
150.00	150.00	150.00	150.00	0.61	0.61	-90.00	0.00	-60.00	60.00	59.03	0.97	61.561		
200.00	200.00	200.00	200.00	0.94	0.94	-90.00	0.00	-60.00	60.00	58.50	1.50	40.041		
250.00	250.00	250.00	250.00	1.19	1.19	-90.00	0.00	-60.00	60.00	58.06	1.94	31.000		
300.00	300.00	300.00	300.00	1.44	1.44	-90.00	0.00	-60.00	60.00	57.63	2.37	25.289		
350.00	350.00	350.00	350.00	1.66	1.66	-90.00	0.00	-60.00	60.00	57.23	2.77	21.656		
400.00	400.00	400.00	400.00	1.88	1.88	-90.00	0.00	-60.00	60.00	56.83	3.17	18.935		
450.00	450.00	450.00	450.00	2.09	2.09	-90.00	0.00	-60.00	60.00	56.45	3.55	16.894		
500.00	500.00	500.00	500.00	2.30	2.30	-90.00	0.00	-60.00	60.00	56.07	3.93	15.250		
550.00	550.00	549.21	549.21	2.42	2.46	1.36	0.27	-60.32	59.89	55.57	4.32	13.874		
600.00	599.98	598.42	598.40	2.56	2.67	2.18	1.10	-61.28	59.57	54.88	4.69	12.693		
650.00	649.93	647.60	647.54	3.00	3.02	3.56	2.47	-62.89	59.07	53.47	5.60	10.547		
700.00	699.84	696.75	696.60	3.58	3.55	5.53	4.39	-65.13	58.42	51.87	6.55	8.924		
750.00	749.68	745.86	745.55	4.04	4.01	8.12	6.85	-68.01	57.70	50.34	7.36	7.844		
800.00	799.45	794.91	794.39	4.50	4.46	11.35	9.86	-71.52	56.98	48.76	8.21	6.938		
850.00	849.13	843.89	843.07	4.89	4.86	15.26	13.40	-75.67	56.37	47.36	9.01	6.259		
900.00	898.70	892.81	891.58	5.29	5.24	19.83	17.48	-80.43	56.01	46.19	9.83	5.701		
921.61	920.09	913.92	912.48	5.38	5.40	22.01	19.40	-82.68	55.97	45.87	10.10	5.540	CC	
950.00	948.15	941.63	939.88	5.51	5.60	25.03	22.08	-85.82	56.05	45.59	10.46	5.360		

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
967.86	965.78	959.05	957.08	5.60	5.72	27.01	23.86	-87.89	56.19	45.51	10.68	5.262	ES		
1,000.00	997.50	990.37	987.98	5.67	5.94	30.66	27.21	-91.81	56.80	45.81	11.00	5.164			
1,050.00	1,046.83	1,039.02	1,035.85	5.79	6.26	36.19	32.87	-98.42	58.91	47.46	11.46	5.141			
1,100.00	1,096.16	1,087.57	1,083.46	5.91	6.58	41.29	39.03	-105.63	62.40	50.52	11.88	5.251			
1,150.00	1,145.50	1,135.98	1,130.77	6.05	6.88	45.76	45.70	-113.42	67.18	54.89	12.30	5.464			
1,200.00	1,194.83	1,184.22	1,177.74	6.18	7.17	49.52	52.86	-121.80	73.16	60.47	12.69	5.764			
1,250.00	1,244.17	1,232.28	1,224.33	6.33	7.45	52.58	60.51	-130.74	80.23	67.15	13.08	6.133			
1,300.00	1,293.50	1,280.13	1,270.52	6.47	7.73	55.01	68.62	-140.22	88.29	74.82	13.47	6.555			
1,350.00	1,342.84	1,327.73	1,316.26	6.62	8.00	56.90	77.19	-150.24	97.28	83.42	13.86	7.018			
1,400.00	1,392.17	1,375.07	1,361.52	6.77	8.26	58.34	86.20	-160.77	107.13	92.87	14.26	7.514			
1,450.00	1,441.51	1,422.12	1,406.28	6.92	8.52	59.41	95.64	-171.81	117.80	103.14	14.66	8.037			
1,500.00	1,490.84	1,468.86	1,450.50	7.08	8.77	60.18	105.48	-183.32	129.25	114.20	15.06	8.585			
1,550.00	1,540.18	1,515.27	1,494.15	7.24	8.99	60.72	115.72	-195.29	141.47	126.04	15.43	9.169			
1,600.00	1,589.51	1,561.50	1,537.38	7.40	9.15	61.07	126.38	-207.74	154.42	138.68	15.74	9.812			
1,650.00	1,638.85	1,609.70	1,582.33	7.56	9.28	61.34	137.69	-220.96	167.69	151.62	16.06	10.439			
1,700.00	1,688.18	1,657.90	1,627.28	7.73	9.41	61.57	148.99	-234.18	180.96	164.56	16.39	11.037			
1,750.00	1,737.52	1,706.11	1,672.23	7.89	9.55	61.77	160.30	-247.41	194.23	177.50	16.73	11.607			
1,800.00	1,786.85	1,754.31	1,717.19	8.06	9.70	61.94	171.61	-260.63	207.50	190.42	17.09	12.144			
1,850.00	1,836.19	1,802.51	1,762.14	8.24	9.86	62.09	182.92	-273.85	220.78	203.34	17.45	12.656			
1,900.00	1,885.52	1,859.45	1,815.72	8.41	10.09	62.63	196.19	-287.76	233.28	215.28	18.00	12.960			
1,950.00	1,934.85	1,918.34	1,872.20	8.59	10.42	64.07	209.61	-297.56	243.74	225.12	18.62	13.088			
2,000.00	1,984.19	1,977.08	1,929.25	8.77	10.68	66.34	222.61	-302.57	252.34	233.23	19.11	13.206			
2,050.00	2,033.52	2,034.90	1,985.73	8.95	10.83	69.31	234.93	-302.84	259.41	239.92	19.49	13.310			
2,100.00	2,082.86	2,091.10	2,040.57	9.13	10.99	72.87	246.39	-298.66	265.42	245.57	19.85	13.369			
2,150.00	2,132.19	2,145.08	2,092.89	9.31	11.18	76.92	256.84	-290.55	270.95	250.78	20.16	13.437			
2,200.00	2,181.53	2,196.41	2,142.04	9.50	11.42	81.30	266.22	-279.16	276.64	256.24	20.39	13.565			
2,250.00	2,230.86	2,244.78	2,187.59	9.69	11.68	85.87	274.52	-265.19	283.16	262.61	20.55	13.781			
2,300.00	2,280.20	2,290.05	2,229.36	9.88	11.95	90.47	281.78	-249.33	291.15	270.51	20.64	14.109			
2,350.00	2,329.53	2,332.17	2,267.32	10.07	12.21	94.99	288.07	-232.21	301.16	280.49	20.67	14.572			
2,400.00	2,378.87	2,371.20	2,301.61	10.27	12.44	99.32	293.48	-214.37	313.60	292.95	20.65	15.189			
2,450.00	2,428.20	2,407.27	2,332.44	10.47	12.66	103.38	298.10	-196.25	328.75	308.17	20.58	15.973			
2,500.00	2,477.54	2,440.53	2,360.07	10.66	12.86	107.15	302.02	-178.17	346.74	326.26	20.48	16.931			
2,524.81	2,502.02	2,456.05	2,372.69	10.76	12.95	108.89	303.75	-169.30	356.71	336.31	20.41	17.480			
2,550.00	2,526.94	2,471.44	2,385.02	10.85	13.04	111.59	305.38	-160.23	367.40	347.07	20.33	18.070			
2,600.00	2,576.71	2,500.00	2,407.40	11.08	13.20	116.98	308.23	-142.72	389.65	369.47	20.17	19.315			
2,650.00	2,626.69	2,531.75	2,431.47	11.23	13.38	-66.17	311.11	-122.22	412.79	392.73	20.06	20.582			
2,700.00	2,676.62	2,561.50	2,453.22	11.51	13.55	-56.48	313.52	-102.07	436.39	416.50	19.89	21.944			
2,750.00	2,726.28	2,591.03	2,473.99	11.78	13.72	-52.34	315.63	-81.19	460.08	440.30	19.78	23.258			
2,800.00	2,775.40	2,620.36	2,493.79	12.06	13.90	-48.84	317.45	-59.63	483.57	463.87	19.70	24.548			
2,850.00	2,823.77	2,650.00	2,512.93	12.34	14.07	-45.73	319.01	-37.05	506.62	486.97	19.64	25.789			
2,900.00	2,871.13	2,678.52	2,530.47	12.62	14.25	-43.03	320.24	-14.60	529.03	509.43	19.60	26.994			
2,950.00	2,917.26	2,700.00	2,543.10	12.88	14.39	-40.87	320.99	2.75	550.72	531.30	19.42	28.358			
3,000.00	2,961.94	2,736.12	2,563.20	13.13	14.63	-38.45	321.90	32.75	571.34	551.74	19.59	29.161			
3,050.00	3,004.94	2,767.22	2,579.31	13.36	14.85	-36.47	322.34	59.34	591.00	571.35	19.65	30.074			
3,100.00	3,046.06	2,808.53	2,599.96	13.57	15.14	-34.52	322.71	95.11	608.99	589.07	19.92	30.572			
3,150.00	3,085.09	2,855.09	2,623.25	13.77	15.53	-32.87	323.12	135.43	624.47	604.12	20.34	30.696			
3,200.00	3,121.86	2,902.81	2,647.10	13.94	15.97	-31.59	323.55	176.76	637.25	616.43	20.82	30.608			
3,250.00	3,156.17	2,951.45	2,671.42	14.10	16.48	-30.64	323.98	218.88	647.21	625.83	21.37	30.279			
3,300.00	3,187.86	2,984.07	2,687.52	14.25	16.86	-30.07	324.28	247.25	654.67	633.02	21.65	30.235			
3,350.00	3,216.77	3,000.00	2,694.88	14.39	17.05	-29.71	324.42	261.38	661.04	639.40	21.64	30.543			
3,391.77	3,238.70	3,029.47	2,707.45	14.50	17.44	-29.38	324.69	288.03	665.28	643.22	22.06	30.163			
3,400.00	3,242.82	3,033.53	2,709.07	14.52	17.49	-29.36	324.73	291.75	666.08	644.00	22.08	30.168			

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
3,450.00	3,267.82	3,050.00	2,715.39	14.67	17.72	-29.27	324.89	306.96	672.16	650.09	22.07	30.457			
3,500.00	3,292.82	3,082.22	2,726.47	14.92	18.19	-29.04	325.20	337.21	679.89	657.41	22.48	30.245			
3,550.00	3,317.82	3,100.00	2,731.84	15.34	18.46	-28.88	325.38	354.16	689.62	667.02	22.60	30.513			
3,591.77	3,338.70	3,125.49	2,738.63	15.77	18.87	-28.62	325.63	378.73	699.03	676.07	22.95	30.458			
3,600.00	3,342.76	3,129.30	2,739.55	15.86	18.93	-28.48	325.67	382.42	700.99	677.99	22.99	30.485			
3,650.00	3,365.21	3,150.00	2,744.12	16.50	19.27	-27.77	325.87	402.61	711.77	688.42	23.35	30.487			
3,700.00	3,383.67	3,175.64	2,748.77	17.23	19.71	-27.16	326.13	427.82	720.53	696.48	24.05	29.960			
3,750.00	3,398.01	3,200.00	2,752.13	18.03	20.13	-26.72	326.38	451.94	727.28	702.50	24.78	29.350			
3,800.00	3,408.13	3,222.08	2,754.29	18.88	20.52	-26.43	326.61	473.91	731.95	706.44	25.51	28.687			
3,850.00	3,413.94	3,250.00	2,755.81	19.77	21.02	-26.26	326.89	501.79	734.58	708.18	26.41	27.815			
3,885.77	3,415.43	3,262.79	2,756.06	20.43	21.26	-26.23	327.03	514.57	735.13	708.32	26.81	27.425			
3,900.00	3,415.58	3,277.02	2,756.21	20.69	21.52	-26.23	327.17	528.80	735.13	708.07	27.06	27.170			
3,950.00	3,416.10	3,327.02	2,756.73	21.65	22.47	-26.23	327.69	578.80	735.13	707.17	27.96	26.291			
4,000.00	3,416.63	3,377.02	2,757.25	22.62	23.45	-26.23	328.20	628.79	735.13	706.25	28.88	25.457			
4,050.00	3,417.15	3,427.02	2,757.78	23.64	24.45	-26.23	328.71	678.79	735.13	705.29	29.84	24.639			
4,100.00	3,417.67	3,477.02	2,758.30	24.66	25.47	-26.23	329.23	728.78	735.13	704.32	30.81	23.861			
4,150.00	3,418.20	3,527.02	2,758.82	25.71	26.52	-26.23	329.74	778.78	735.13	703.31	31.82	23.106			
4,200.00	3,418.72	3,577.02	2,759.35	26.77	27.58	-26.23	330.26	828.77	735.13	702.29	32.83	22.389			
4,250.00	3,419.24	3,627.02	2,759.87	27.85	28.65	-26.23	330.77	878.77	735.13	701.25	33.88	21.698			
4,300.00	3,419.77	3,677.02	2,760.39	28.93	29.74	-26.23	331.28	928.76	735.13	700.19	34.93	20.143			
4,350.00	3,420.29	3,727.02	2,760.92	30.04	30.84	-26.23	331.80	978.75	735.13	699.11	36.01	20.413			
4,400.00	3,420.82	3,777.02	2,761.44	31.14	31.95	-26.23	332.31	1,028.75	735.13	698.03	37.10	19.815			
4,450.00	3,421.34	3,827.02	2,761.96	32.26	33.06	-26.23	332.83	1,078.74	735.13	696.92	38.21	19.241			
4,500.00	3,421.86	3,877.02	2,762.49	33.39	34.19	-26.23	333.34	1,128.74	735.12	695.81	39.32	18.697			
4,550.00	3,422.39	3,927.02	2,763.01	34.53	35.32	-26.23	333.86	1,178.73	735.12	694.68	40.45	18.176			
4,600.00	3,422.91	3,977.02	2,763.54	35.66	36.46	-26.23	334.37	1,228.73	735.12	693.54	41.58	17.680			
4,650.00	3,423.43	4,027.02	2,764.06	36.81	37.61	-26.23	334.88	1,278.72	735.12	692.40	42.73	17.205			
4,700.00	3,423.96	4,077.02	2,764.58	37.96	38.76	-26.23	335.40	1,328.72	735.12	691.24	43.88	16.753			
4,750.00	3,424.48	4,127.02	2,765.11	39.12	39.92	-26.23	335.91	1,378.71	735.12	690.08	45.04	16.320			
4,800.00	3,425.00	4,177.02	2,765.63	40.28	41.08	-26.23	336.43	1,428.71	735.12	688.91	46.21	15.908			
4,850.00	3,425.53	4,227.02	2,766.15	41.45	42.24	-26.23	336.94	1,478.70	735.12	687.73	47.39	15.512			
4,900.00	3,426.05	4,277.02	2,766.68	42.62	43.41	-26.23	337.45	1,528.70	735.12	686.55	48.57	15.135			
4,950.00	3,426.57	4,327.02	2,767.20	43.79	44.58	-26.23	337.97	1,578.69	735.12	685.36	49.76	14.773			
5,000.00	3,427.10	4,377.02	2,767.72	44.97	45.76	-26.23	338.48	1,628.69	735.12	684.17	50.95	14.427			
5,050.00	3,427.62	4,427.02	2,768.25	46.15	46.94	-26.23	339.00	1,678.68	735.12	682.97	52.15	14.095			
5,100.00	3,428.15	4,477.02	2,768.77	47.33	48.12	-26.23	339.51	1,728.67	735.12	681.76	53.36	13.777			
5,150.00	3,428.67	4,527.02	2,769.29	48.51	49.30	-26.23	340.02	1,778.67	735.12	680.55	54.57	13.472			
5,200.00	3,429.19	4,577.02	2,769.82	49.70	50.49	-26.23	340.54	1,828.66	735.12	679.34	55.78	13.179			
5,250.00	3,429.72	4,627.02	2,770.34	50.89	51.68	-26.23	341.05	1,878.66	735.12	678.13	57.00	12.898			
5,300.00	3,430.24	4,677.02	2,770.87	52.08	52.87	-26.23	341.57	1,928.65	735.12	676.91	58.21	12.628			
5,350.00	3,430.76	4,727.02	2,771.39	53.27	54.06	-26.23	342.08	1,978.65	735.12	675.68	59.44	12.368			
5,400.00	3,431.29	4,777.02	2,771.91	54.46	55.25	-26.23	342.60	2,028.64	735.12	674.46	60.66	12.118			
5,450.00	3,431.81	4,827.02	2,772.44	55.66	56.45	-26.23	343.11	2,078.64	735.12	673.22	61.89	11.877			
5,500.00	3,432.33	4,877.02	2,772.96	56.86	57.65	-26.23	343.62	2,128.63	735.12	671.99	63.13	11.645			
5,550.00	3,432.86	4,927.02	2,773.48	58.06	58.85	-26.23	344.14	2,178.63	735.12	670.76	64.36	11.422			
5,600.00	3,433.38	4,977.02	2,774.01	59.26	60.05	-26.23	344.65	2,228.62	735.12	669.52	65.60	11.206			
5,650.00	3,433.90	5,027.02	2,774.53	60.46	61.25	-26.23	345.17	2,278.62	735.12	668.28	66.84	10.998			
5,700.00	3,434.43	5,077.02	2,775.05	61.66	62.45	-26.23	345.68	2,328.61	735.12	667.04	68.08	10.798			
5,750.00	3,434.95	5,127.02	2,775.58	62.87	63.65	-26.23	346.19	2,378.60	735.12	665.79	69.33	10.604			
5,800.00	3,435.48	5,177.02	2,776.10	64.07	64.86	-26.23	346.71	2,428.60	735.12	664.54	70.57	10.416			
5,850.00	3,436.00	5,227.02	2,776.62	65.28	66.07	-26.23	347.22	2,478.59	735.12	663.30	71.82	10.235			
5,900.00	3,436.52	5,277.02	2,777.15	66.49	67.27	-26.23	347.74	2,528.59	735.12	662.05	73.07	10.060			

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,950.00	3,437.05	5,327.02	2,777.67	67.69	68.48	-26.23	348.25	2,578.58	735.12	660.79	74.32	9.891			
6,000.00	3,437.57	5,377.02	2,778.20	68.90	69.69	-26.23	348.76	2,628.58	735.12	659.54	75.58	9.727			
6,050.00	3,438.09	5,427.02	2,778.72	70.11	70.90	-26.23	349.28	2,678.57	735.12	658.28	76.83	9.568			
6,100.00	3,438.62	5,477.02	2,779.24	71.32	72.11	-26.23	349.79	2,728.57	735.12	657.03	78.09	9.414			
6,150.00	3,439.14	5,527.02	2,779.77	72.53	73.32	-26.23	350.31	2,778.56	735.12	655.77	79.35	9.265			
6,200.00	3,439.66	5,577.02	2,780.29	73.75	74.53	-26.23	350.82	2,828.56	735.11	654.51	80.61	9.120			
6,250.00	3,440.19	5,627.02	2,780.81	74.96	75.74	-26.23	351.34	2,878.55	735.11	653.25	81.87	8.979			
6,300.00	3,440.71	5,677.02	2,781.34	76.17	76.96	-26.23	351.85	2,928.55	735.11	651.99	83.13	8.843			
6,350.00	3,441.24	5,727.02	2,781.86	77.39	78.17	-26.23	352.36	2,978.54	735.11	650.72	84.39	8.711			
6,400.00	3,441.76	5,777.02	2,782.38	78.60	79.39	-26.23	352.88	3,028.53	735.11	649.46	85.66	8.582			
6,450.00	3,442.28	5,827.02	2,782.91	79.82	80.60	-26.23	353.39	3,078.53	735.11	648.19	86.92	8.457			
6,500.00	3,442.81	5,877.02	2,783.43	81.03	81.82	-26.23	353.91	3,128.52	735.11	646.93	88.19	8.336			
6,550.00	3,443.33	5,927.02	2,783.95	82.25	83.03	-26.23	354.42	3,178.52	735.11	645.66	89.45	8.218			
6,600.00	3,443.85	5,977.02	2,784.48	83.46	84.25	-26.23	354.93	3,228.51	735.11	644.39	90.72	8.103			
6,650.00	3,444.38	6,027.02	2,785.00	84.68	85.46	-26.23	355.45	3,278.51	735.11	643.12	91.99	7.991			
6,700.00	3,444.90	6,077.02	2,785.52	85.90	86.68	-26.23	355.96	3,328.50	735.11	641.85	93.26	7.882			
6,750.00	3,445.42	6,127.02	2,786.05	87.12	87.90	-26.23	356.48	3,378.50	735.11	640.58	94.53	7.776			
6,800.00	3,445.95	6,177.02	2,786.57	88.33	89.12	-26.23	356.99	3,428.49	735.11	639.31	95.80	7.673			
6,850.00	3,446.47	6,227.02	2,787.10	89.55	90.34	-26.23	357.50	3,478.49	735.11	638.03	97.08	7.573			
6,900.00	3,446.99	6,277.02	2,787.62	90.77	91.56	-26.23	358.02	3,528.48	735.11	636.76	98.35	7.475			
6,950.00	3,447.52	6,327.02	2,788.14	91.99	92.77	-26.23	358.53	3,578.48	735.11	635.49	99.62	7.379			
7,000.00	3,448.04	6,377.02	2,788.67	93.21	93.99	-26.23	359.05	3,628.47	735.11	634.21	100.90	7.286			
7,050.00	3,448.57	6,427.02	2,789.19	94.43	95.21	-26.23	359.56	3,678.46	735.11	632.94	102.17	7.195			
7,100.00	3,449.09	6,477.02	2,789.71	95.65	96.43	-26.23	360.08	3,728.46	735.11	631.66	103.45	7.106			
7,150.00	3,449.61	6,527.02	2,790.24	96.87	97.65	-26.23	360.59	3,778.45	735.11	630.39	104.72	7.019			
7,200.00	3,450.14	6,577.02	2,790.76	98.09	98.88	-26.23	361.10	3,828.45	735.11	629.11	106.00	6.935			
7,250.00	3,450.66	6,627.02	2,791.28	99.31	100.10	-26.23	361.62	3,878.44	735.11	627.83	107.28	6.852			
7,300.00	3,451.18	6,677.02	2,791.81	100.53	101.32	-26.23	362.13	3,928.44	735.11	626.55	108.56	6.772			
7,350.00	3,451.71	6,727.02	2,792.33	101.76	102.54	-26.23	362.65	3,978.43	735.11	625.27	109.84	6.693			
7,400.00	3,452.23	6,777.02	2,792.85	102.98	103.76	-26.23	363.16	4,028.43	735.11	623.99	111.11	6.616			
7,450.00	3,452.75	6,827.02	2,793.38	104.20	104.98	-26.23	363.67	4,078.42	735.11	622.71	112.39	6.540			
7,500.00	3,453.28	6,877.02	2,793.90	105.42	106.21	-26.23	364.19	4,128.42	735.11	621.43	113.67	6.467			
7,550.00	3,453.80	6,927.02	2,794.43	106.65	107.43	-26.23	364.70	4,178.41	735.11	620.15	114.95	6.395			
7,600.00	3,454.32	6,977.02	2,794.95	107.87	108.65	-26.23	365.22	4,228.41	735.11	618.87	116.23	6.324			
7,650.00	3,454.85	7,027.02	2,795.47	109.09	109.87	-26.23	365.73	4,278.40	735.11	617.59	117.52	6.255			
7,700.00	3,455.37	7,077.02	2,796.00	110.31	111.10	-26.23	366.24	4,328.39	735.11	616.31	118.80	6.188			
7,750.00	3,455.90	7,127.02	2,796.52	111.54	112.32	-26.23	366.76	4,378.39	735.11	615.03	120.08	6.122			
7,800.00	3,456.42	7,177.02	2,797.04	112.76	113.54	-26.23	367.27	4,428.38	735.11	613.74	121.36	6.057			
7,850.00	3,456.94	7,227.02	2,797.57	113.99	114.77	-26.23	367.79	4,478.38	735.11	612.46	122.65	5.994			
7,900.00	3,457.47	7,277.02	2,798.09	115.21	115.99	-26.23	368.30	4,528.37	735.11	611.18	123.93	5.932			
7,950.00	3,457.99	7,327.02	2,798.61	116.43	117.22	-26.23	368.81	4,578.37	735.10	609.89	125.21	5.871			
8,000.00	3,458.51	7,377.02	2,799.14	117.66	118.44	-26.23	369.33	4,628.36	735.10	608.61	126.50	5.811			
8,050.00	3,459.04	7,427.02	2,799.66	118.88	119.66	-26.23	369.84	4,678.36	735.10	607.32	127.78	5.753			
8,100.00	3,459.56	7,477.02	2,800.18	120.11	120.89	-26.23	370.36	4,728.35	735.10	606.04	129.06	5.696			
8,150.00	3,460.08	7,527.02	2,800.71	121.33	122.11	-26.23	370.87	4,778.35	735.10	604.75	130.35	5.639			
8,200.00	3,460.61	7,577.02	2,801.23	122.56	123.34	-26.23	371.39	4,828.34	735.10	603.47	131.63	5.584			
8,250.00	3,461.13	7,627.02	2,801.76	123.78	124.56	-26.23	371.90	4,878.34	735.10	602.18	132.92	5.530			
8,300.00	3,461.66	7,677.02	2,802.28	125.01	125.79	-26.23	372.41	4,928.33	735.10	600.90	134.21	5.477			
8,350.00	3,462.18	7,727.02	2,802.80	126.23	127.02	-26.23	372.93	4,978.32	735.10	599.61	135.49	5.425			
8,400.00	3,462.70	7,777.02	2,803.33	127.46	128.24	-26.23	373.44	5,028.32	735.10	598.32	136.78	5.374			
8,450.00	3,463.23	7,827.02	2,803.85	128.68	129.47	-26.23	373.96	5,078.31	735.10	597.04	138.06	5.324			
8,500.00	3,463.75	7,877.02	2,804.37	129.91	130.69	-26.23	374.47	5,128.31	735.10	595.75	139.35	5.275			

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													ULI Pad - ULI 12 Fee 11H - 11H - Plan #1	Offset Site Error:	0.00 usft
Survey Program: 0-MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
8,550.00	3,464.27	7,927.02	2,804.90	131.14	131.92	-26.23	374.98	5,178.30	735.10	594.46	140.64	5.227			
8,600.00	3,464.80	7,977.02	2,805.42	132.36	133.14	-26.23	375.50	5,228.30	735.10	593.18	141.93	5.179			
8,650.00	3,465.32	8,027.02	2,805.94	133.59	134.37	-26.23	376.01	5,278.29	735.10	591.89	143.21	5.133			
8,700.00	3,465.84	8,077.02	2,806.47	134.81	135.60	-26.23	376.53	5,328.29	735.10	590.60	144.50	5.087			
8,750.00	3,466.37	8,127.02	2,806.99	136.04	136.82	-26.23	377.04	5,378.28	735.10	589.31	145.79	5.042			
8,800.00	3,466.89	8,177.02	2,807.51	137.27	138.05	-26.23	377.55	5,428.28	735.10	588.02	147.08	4.998			
8,850.00	3,467.41	8,227.02	2,808.04	138.49	139.28	-26.23	378.07	5,478.27	735.10	586.73	148.37	4.955			
8,900.00	3,467.94	8,277.02	2,808.56	139.72	140.50	-26.23	378.58	5,528.27	735.10	585.45	149.65	4.912			
8,950.00	3,468.46	8,327.02	2,809.08	140.95	141.73	-26.23	379.10	5,578.26	735.10	584.16	150.94	4.870			
9,000.00	3,468.99	8,377.02	2,809.61	142.17	142.96	-26.23	379.61	5,628.25	735.10	582.87	152.23	4.829			
9,050.00	3,469.51	8,427.02	2,810.13	143.40	144.18	-26.23	380.13	5,678.25	735.10	581.58	153.52	4.788			
9,050.31	3,469.51	8,427.33	2,810.14	143.41	144.19	-26.23	380.13	5,678.56	735.10	581.57	153.53	4.788			
9,100.00	3,470.03	8,477.02	2,810.66	144.63	145.41	-26.23	380.64	5,728.24	735.10	580.29	154.81	4.748			
9,135.27	3,470.40	8,512.29	2,811.02	145.49	146.27	-26.23	381.00	5,763.51	735.10	579.38	155.72	4.721			
9,140.32	3,470.45	8,512.78	2,811.03	145.62	146.29	-26.23	381.01	5,764.00	735.11	579.32	155.79	4.719 SF			

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	1.00	0.00	0.00	-89.99	0.01	-30.00	30.02						
50.00	50.00	49.00	50.00	0.10	0.14	-89.99	0.01	-30.00	30.00	29.81	0.19	158.339			
100.00	100.00	99.00	100.00	0.29	0.28	-89.99	0.01	-30.00	30.00	29.55	0.45	66.888			
150.00	150.00	149.00	150.00	0.61	0.61	-89.99	0.01	-30.00	30.00	29.03	0.97	30.951			
200.00	200.00	199.00	200.00	0.94	0.93	-89.99	0.01	-30.00	30.00	28.51	1.49	20.093			
250.00	250.00	249.00	250.00	1.19	1.18	-89.99	0.01	-30.00	30.00	28.07	1.93	15.537			
300.00	300.00	299.00	300.00	1.44	1.44	-89.99	0.01	-30.00	30.00	27.63	2.37	12.669			
350.00	350.00	349.00	350.00	1.66	1.66	-89.99	0.01	-30.00	30.00	27.23	2.77	10.845			
400.00	400.00	399.00	400.00	1.88	1.88	-89.99	0.01	-30.00	30.00	26.84	3.16	9.480			
450.00	450.00	449.00	450.00	2.09	2.09	-89.99	0.01	-30.00	30.00	26.45	3.55	8.457			
500.00	500.00	499.00	500.00	2.30	2.29	-89.99	0.01	-30.00	30.00	26.07	3.93	7.633			
550.00	550.00	548.54	549.54	2.42	2.45	0.77	-0.18	-30.37	29.94	25.55	4.39	6.826			
600.00	599.98	598.08	599.06	2.56	2.62	-0.27	-0.74	-31.50	29.78	24.93	4.85	6.141			
650.00	649.93	647.60	648.53	3.00	3.12	-2.03	-1.68	-33.41	29.56	23.56	6.00	4.928			
700.00	699.84	697.11	697.95	3.58	3.67	-4.54	-3.01	-36.07	29.30	22.14	7.16	4.092			
750.00	749.68	746.60	747.30	4.04	4.12	-7.83	-4.71	-39.50	29.05	21.01	8.04	3.612			
800.00	799.45	796.08	796.55	4.50	4.56	-11.90	-6.79	-43.69	28.89	20.03	8.87	3.259			
825.13	824.43	820.93	821.26	4.70	4.76	-14.23	-7.98	-46.09	28.87	19.67	9.20	3.138 CC			
850.00	849.13	845.53	845.69	4.89	4.95	-16.73	-9.24	-48.64	28.89	19.39	9.50	3.040			
900.00	898.70	894.95	894.70	5.29	5.33	-22.25	-12.08	-54.35	29.16	19.13	10.03	2.907 ES			
950.00	948.15	944.34	943.56	5.51	5.67	-28.31	-15.28	-60.81	29.78	19.49	10.29	2.895			
967.86	965.78	961.97	960.97	5.60	5.80	-30.56	-16.51	-63.29	30.11	19.76	10.35	2.909			
1,000.00	997.50	993.69	992.25	5.67	6.02	-34.52	-18.86	-68.01	31.01	20.60	10.41	2.979			
1,050.00	1,046.83	1,043.01	1,040.76	5.79	6.35	-39.87	-22.80	-75.96	33.36	22.86	10.50	3.177			
1,100.00	1,096.16	1,092.25	1,089.04	5.91	6.69	-44.05	-27.11	-84.64	36.78	26.14	10.65	3.455			
1,150.00	1,145.50	1,141.87	1,137.56	6.05	6.91	-47.19	-31.72	-93.94	40.95	30.17	10.78	3.798			
1,200.00	1,194.83	1,191.65	1,186.23	6.18	7.10	-49.74	-36.36	-103.29	45.24	34.30	10.94	4.136			
1,250.00	1,244.17	1,241.43	1,234.91	6.33	7.23	-51.85	-41.00	-112.64	49.60	38.50	11.10	4.467			
1,300.00	1,293.50	1,291.20	1,283.58	6.47	7.36	-53.61	-45.64	-121.99	54.02	42.72	11.30	4.781			
1,350.00	1,342.84	1,340.98	1,332.25	6.62	7.49	-55.11	-50.28	-131.34	58.48	46.95	11.53	5.072			
1,400.00	1,392.17	1,390.76	1,380.92	6.77	7.62	-56.39	-54.92	-140.69	62.98	51.19	11.79	5.342			
1,450.00	1,441.51	1,440.54	1,429.59	6.92	7.75	-57.50	-59.56	-150.04	67.50	55.43	12.07	5.593			
1,500.00	1,490.84	1,490.32	1,478.27	7.08	7.89	-58.48	-64.20	-159.40	72.05	59.68	12.37	5.825			
1,550.00	1,540.18	1,540.10	1,526.94	7.24	8.03	-59.33	-68.84	-168.75	76.61	63.93	12.68	6.041			
1,600.00	1,589.51	1,589.88	1,575.61	7.40	8.18	-60.09	-73.48	-178.10	81.19	68.18	13.01	6.240			
1,650.00	1,638.85	1,639.66	1,624.28	7.56	8.32	-60.77	-78.12	-187.45	85.78	72.43	13.35	6.425			
1,700.00	1,688.18	1,689.44	1,672.95	7.73	8.47	-61.38	-82.76	-196.80	90.39	76.69	13.70	6.597			
1,750.00	1,737.52	1,739.22	1,721.63	7.89	8.62	-61.93	-87.40	-206.15	95.00	80.94	14.06	6.758			
1,800.00	1,786.85	1,788.99	1,770.30	8.06	8.78	-62.43	-92.04	-215.50	99.62	85.19	14.42	6.906			
1,850.00	1,836.19	1,838.77	1,818.97	8.24	8.94	-62.89	-96.68	-224.85	104.25	89.45	14.79	7.047			
1,900.00	1,885.52	1,888.55	1,867.64	8.41	9.10	-63.30	-101.32	-234.20	108.88	93.71	15.17	7.176			
1,950.00	1,934.85	1,938.33	1,916.31	8.59	9.26	-63.69	-105.96	-243.55	113.52	97.97	15.55	7.300			
2,000.00	1,984.19	1,988.11	1,964.99	8.77	9.43	-64.04	-110.60	-252.91	118.16	102.21	15.95	7.409			
2,050.00	2,033.52	2,037.89	2,013.66	8.95	9.60	-64.37	-115.25	-262.26	122.81	106.47	16.34	7.516			
2,100.00	2,082.86	2,087.67	2,062.33	9.13	9.77	-64.67	-119.89	-271.61	127.46	110.72	16.73	7.617			
2,150.00	2,132.19	2,137.45	2,111.00	9.31	9.95	-64.95	-124.53	-280.96	132.11	114.98	17.13	7.712			
2,200.00	2,181.53	2,187.23	2,159.67	9.50	10.12	-65.21	-129.17	-290.31	136.77	119.23	17.53	7.802			
2,250.00	2,230.86	2,241.20	2,212.74	9.69	10.36	-66.10	-134.12	-298.77	140.75	122.75	18.00	7.821			
2,300.00	2,280.20	2,295.27	2,266.40	9.88	10.70	-68.42	-138.89	-303.22	143.24	124.74	18.50	7.744			
2,350.00	2,329.53	2,348.42	2,319.35	10.07	11.04	-72.06	-143.37	-303.62	144.63	125.65	18.98	7.621			
2,400.00	2,378.87	2,400.11	2,370.75	10.27	11.25	-76.93	-147.49	-300.25	145.55	126.02	19.53	7.451			
2,450.00	2,428.20	2,449.89	2,419.92	10.47	11.37	-82.82	-151.22	-293.49	146.86	126.71	20.16	7.287			

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
2,500.00	2,477.54	2,497.41	2,466.33	10.66	11.58	-89.48	-154.56	-283.87	149.55	128.85	20.70	7.225			
2,524.81	2,502.02	2,520.08	2,488.22	10.76	11.70	-92.95	-156.06	-278.20	151.72	130.77	20.95	7.243			
2,550.00	2,526.94	2,542.63	2,509.81	10.85	11.82	-96.52	-157.51	-271.87	154.58	133.39	21.19	7.294			
2,600.00	2,576.71	2,586.59	2,551.30	11.08	12.07	-102.73	-160.15	-257.60	162.02	140.42	21.60	7.501			
2,650.00	2,626.69	2,629.57	2,590.96	11.23	12.31	-63.22	-162.52	-241.21	171.39	149.50	21.89	7.830			
2,700.00	2,676.62	2,671.68	2,628.80	11.51	12.53	63.23	-164.62	-222.88	182.20	160.06	22.14	8.230			
2,750.00	2,726.28	2,712.99	2,664.83	11.78	12.73	58.74	-166.47	-202.76	194.01	171.74	22.27	8.710			
2,800.00	2,775.40	2,753.58	2,699.05	12.06	12.91	54.59	-168.06	-181.01	206.46	184.12	22.34	9.241			
2,850.00	2,823.77	2,793.52	2,731.49	12.34	13.08	50.91	-169.42	-157.75	219.23	196.87	22.36	9.806			
2,900.00	2,871.13	2,832.87	2,762.13	12.62	13.23	47.67	-170.55	-133.10	232.09	209.76	22.33	10.396			
2,950.00	2,917.26	2,871.69	2,791.01	12.88	13.36	44.84	-171.45	-107.18	244.82	222.55	22.27	10.992			
3,000.00	2,961.94	2,910.02	2,818.11	13.13	13.49	42.34	-172.13	-80.08	257.28	235.08	22.20	11.588			
3,050.00	3,004.94	2,950.00	2,844.80	13.36	13.60	40.08	-172.63	-50.32	269.34	247.12	22.22	12.122			
3,100.00	3,046.06	2,985.43	2,867.04	13.57	13.69	38.23	-172.87	-22.75	280.86	258.82	22.05	12.740			
3,150.00	3,085.09	3,022.58	2,888.87	13.77	13.77	36.53	-172.94	7.30	291.79	269.80	21.99	13.270			
3,200.00	3,121.86	3,059.41	2,908.96	13.94	13.84	35.02	-172.81	38.16	302.04	280.10	21.94	13.769			
3,250.00	3,156.17	3,101.57	2,930.28	14.10	13.89	33.60	-172.47	74.53	311.34	289.26	22.08	14.101			
3,300.00	3,187.86	3,150.90	2,954.94	14.25	13.95	32.50	-172.03	117.25	318.16	295.59	22.58	14.093			
3,350.00	3,216.77	3,200.67	2,979.83	14.39	14.26	31.89	-171.58	160.35	322.10	298.96	23.14	13.919			
3,391.77	3,238.70	3,242.41	3,000.70	14.50	14.77	31.74	-171.21	196.50	323.14	299.49	23.65	13.664			
3,400.00	3,242.82	3,250.65	3,004.82	14.52	14.87	31.74	-171.14	203.63	323.14	299.40	23.73	13.615			
3,401.03	3,243.33	3,251.67	3,005.33	14.53	14.89	31.74	-171.13	204.52	323.14	299.39	23.75	13.609			
3,450.00	3,267.82	3,293.76	3,026.22	14.67	15.44	31.72	-170.75	241.05	323.36	299.35	24.01	13.469			
3,500.00	3,292.82	3,327.44	3,041.45	14.92	15.92	31.55	-170.44	271.09	325.68	301.71	23.97	13.585			
3,550.00	3,317.82	3,360.79	3,054.76	15.34	16.43	31.21	-170.13	301.66	330.50	306.49	24.01	13.764			
3,591.77	3,338.70	3,388.24	3,064.37	15.77	16.87	30.80	-169.86	327.37	336.44	312.37	24.08	13.974			
3,600.00	3,342.76	3,400.00	3,068.10	15.86	17.06	30.54	-169.75	338.52	337.86	313.51	24.35	13.875			
3,650.00	3,365.21	3,426.09	3,075.57	16.50	17.50	29.80	-169.49	363.52	345.09	320.79	24.30	14.198			
3,700.00	3,383.67	3,450.00	3,081.41	17.23	17.91	29.22	-169.25	386.70	351.29	326.81	24.48	14.348			
3,750.00	3,398.01	3,490.70	3,089.11	18.03	18.65	28.64	-168.84	426.65	355.87	330.48	25.38	14.019			
3,800.00	3,408.13	3,522.87	3,093.17	18.88	19.25	28.29	-168.51	458.56	359.25	333.20	26.06	13.788			
3,850.00	3,413.94	3,555.00	3,095.44	19.77	19.85	28.08	-168.18	490.60	361.28	334.48	26.79	13.484			
3,885.77	3,415.43	3,580.49	3,096.00	20.43	20.34	28.02	-167.92	516.08	361.86	334.59	27.27	13.271			
3,900.00	3,415.58	3,594.72	3,096.15	20.69	20.61	28.02	-167.78	530.31	361.86	334.33	27.52	13.147			
3,950.00	3,416.10	3,644.72	3,096.67	21.65	21.61	28.02	-167.26	580.31	361.86	333.41	28.45	12.717			
4,000.00	3,416.63	3,694.72	3,097.19	22.62	22.61	28.02	-166.75	630.30	361.86	332.47	29.39	12.312			
4,050.00	3,417.15	3,744.72	3,097.71	23.64	23.65	28.02	-166.23	680.30	361.87	331.47	30.40	11.905			
4,100.00	3,417.67	3,794.72	3,098.23	24.66	24.69	28.02	-165.72	730.29	361.87	330.46	31.41	11.522			
4,150.00	3,418.20	3,844.72	3,098.76	25.71	25.77	28.02	-165.21	780.29	361.87	329.41	32.46	11.149			
4,200.00	3,418.72	3,894.72	3,099.28	26.77	26.84	28.02	-164.69	830.28	361.88	328.36	33.52	10.797			
4,250.00	3,419.24	3,944.72	3,099.80	27.85	27.94	28.02	-164.18	880.28	361.88	327.27	34.61	10.457			
4,300.00	3,419.77	3,994.72	3,100.32	28.93	29.04	28.02	-163.67	930.27	361.88	326.18	35.70	10.136			
4,350.00	3,420.29	4,044.72	3,100.84	30.04	30.16	28.02	-163.15	980.27	361.88	325.06	36.83	9.827			
4,400.00	3,420.82	4,094.72	3,101.36	31.14	31.28	28.02	-162.64	1,030.26	361.89	323.93	37.96	9.535			
4,450.00	3,421.34	4,144.72	3,101.88	32.26	32.41	28.02	-162.13	1,080.25	361.89	322.78	39.11	9.254			
4,500.00	3,421.86	4,194.72	3,102.40	33.39	33.55	28.02	-161.61	1,130.25	361.89	321.63	40.26	8.988			
4,550.00	3,422.39	4,244.72	3,102.92	34.53	34.70	28.02	-161.10	1,180.24	361.90	320.46	41.44	8.734			
4,600.00	3,422.91	4,294.72	3,103.44	35.66	35.85	28.02	-160.58	1,230.24	361.90	319.29	42.61	8.493			
4,650.00	3,423.43	4,344.72	3,103.96	36.81	37.00	28.02	-160.07	1,280.23	361.90	318.10	43.81	8.261			
4,700.00	3,423.96	4,394.72	3,104.48	37.96	38.16	28.02	-159.56	1,330.23	361.91	316.90	45.00	8.042			
4,750.00	3,424.48	4,444.72	3,105.00	39.12	39.33	28.02	-159.04	1,380.22	361.91	315.70	46.21	7.831			
4,800.00	3,425.00	4,494.72	3,105.52	40.28	40.50	28.02	-158.53	1,430.22	361.91	314.49	47.43	7.631			

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft
Reference				Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,850.00	3,425.53	4,544.72	3,106.05	41.45	41.67	28.02	-158.02	1,480.21	361.92	313.27	48.65	7.439			
4,900.00	3,426.05	4,594.72	3,106.57	42.62	42.84	28.02	-157.50	1,530.21	361.92	312.04	49.88	7.257			
4,950.00	3,426.57	4,644.72	3,107.09	43.79	44.02	28.02	-156.99	1,580.20	361.92	310.81	51.11	7.081			
5,000.00	3,427.10	4,694.72	3,107.61	44.97	45.21	28.02	-156.48	1,630.20	361.93	309.58	52.35	6.914			
5,050.00	3,427.62	4,744.72	3,108.13	46.15	46.39	28.02	-155.96	1,680.19	361.93	308.33	53.59	6.753			
5,100.00	3,428.15	4,794.72	3,108.65	47.33	47.58	28.02	-155.45	1,730.18	361.93	307.09	54.84	6.599			
5,150.00	3,428.67	4,844.72	3,109.17	48.51	48.77	28.02	-154.93	1,780.18	361.93	305.84	56.10	6.452			
5,200.00	3,429.19	4,894.72	3,109.69	49.70	49.96	28.02	-154.42	1,830.17	361.94	304.58	57.35	6.311			
5,250.00	3,429.72	4,944.72	3,110.21	50.89	51.15	28.02	-153.91	1,880.17	361.94	303.32	58.62	6.175			
5,300.00	3,430.24	4,994.72	3,110.73	52.08	52.35	28.02	-153.39	1,930.16	361.94	302.06	59.88	6.044			
5,350.00	3,430.76	5,044.72	3,111.25	53.27	53.54	28.02	-152.88	1,980.16	361.95	300.80	61.15	5.919			
5,400.00	3,431.29	5,094.72	3,111.77	54.46	54.74	28.02	-152.37	2,030.15	361.95	299.53	62.42	5.798			
5,450.00	3,431.81	5,144.72	3,112.29	55.66	55.94	28.02	-151.85	2,080.15	361.95	298.25	63.70	5.682			
5,500.00	3,432.33	5,194.72	3,112.81	56.86	57.14	28.02	-151.34	2,130.14	361.96	296.98	64.98	5.571			
5,550.00	3,432.86	5,244.72	3,113.33	58.06	58.34	28.02	-150.82	2,180.14	361.96	295.70	66.26	5.463			
5,600.00	3,433.38	5,294.72	3,113.86	59.26	59.55	28.02	-150.31	2,230.13	361.96	294.42	67.54	5.359			
5,650.00	3,433.90	5,344.72	3,114.38	60.46	60.75	28.02	-149.80	2,280.13	361.97	293.14	68.83	5.259			
5,700.00	3,434.43	5,394.72	3,114.90	61.66	61.96	28.02	-149.28	2,330.12	361.97	291.86	70.11	5.163			
5,750.00	3,434.95	5,444.72	3,115.42	62.87	63.17	28.02	-148.77	2,380.12	361.97	290.57	71.40	5.069			
5,800.00	3,435.48	5,494.72	3,115.94	64.07	64.37	28.02	-148.26	2,430.11	361.98	289.28	72.69	4.979			
5,850.00	3,436.00	5,544.72	3,116.46	65.28	65.58	28.02	-147.74	2,480.10	361.98	287.99	73.99	4.892			
5,900.00	3,436.52	5,594.72	3,116.98	66.49	66.79	28.02	-147.23	2,530.10	361.98	286.70	75.28	4.808			
5,950.00	3,437.05	5,644.72	3,117.50	67.69	68.00	28.02	-146.72	2,580.09	361.98	285.40	76.58	4.727			
6,000.00	3,437.57	5,694.72	3,118.02	68.90	69.21	28.02	-146.20	2,630.09	361.99	284.11	77.88	4.648			
6,050.00	3,438.09	5,744.72	3,118.54	70.11	70.43	28.02	-145.69	2,680.08	361.99	282.81	79.18	4.572			
6,100.00	3,438.62	5,794.72	3,119.06	71.32	71.64	28.02	-145.17	2,730.08	361.99	281.51	80.48	4.498			
6,150.00	3,439.14	5,844.72	3,119.58	72.53	72.85	28.02	-144.66	2,780.07	362.00	280.21	81.79	4.426			
6,200.00	3,439.66	5,894.72	3,120.10	73.75	74.06	28.02	-144.15	2,830.07	362.00	278.91	83.09	4.357			
6,250.00	3,440.19	5,944.72	3,120.62	74.96	75.28	28.02	-143.63	2,880.06	362.00	277.61	84.40	4.289			
6,300.00	3,440.71	5,994.72	3,121.14	76.17	76.49	28.02	-143.12	2,930.06	362.01	276.30	85.70	4.224			
6,350.00	3,441.24	6,044.72	3,121.67	77.39	77.71	28.02	-142.61	2,980.05	362.01	275.00	87.01	4.160			
6,400.00	3,441.76	6,094.72	3,122.19	78.60	78.93	28.02	-142.09	3,030.05	362.01	273.69	88.32	4.099			
6,450.00	3,442.28	6,144.72	3,122.71	79.82	80.14	28.02	-141.58	3,080.04	362.02	272.38	89.63	4.039			
6,500.00	3,442.81	6,194.72	3,123.23	81.03	81.36	28.02	-141.07	3,130.04	362.02	271.07	90.94	3.981			
6,550.00	3,443.33	6,244.72	3,123.75	82.25	82.58	28.02	-140.55	3,180.03	362.02	269.76	92.26	3.924			
6,600.00	3,443.85	6,294.72	3,124.27	83.46	83.80	28.02	-140.04	3,230.02	362.03	268.45	93.57	3.869			
6,650.00	3,444.38	6,344.72	3,124.79	84.68	85.01	28.02	-139.52	3,280.02	362.03	267.14	94.89	3.815			
6,700.00	3,444.90	6,394.72	3,125.31	85.90	86.23	28.02	-139.01	3,330.01	362.03	265.83	96.20	3.763			
6,750.00	3,445.42	6,444.72	3,125.83	87.12	87.45	28.02	-138.50	3,380.01	362.03	264.52	97.52	3.713			
6,800.00	3,445.95	6,494.72	3,126.35	88.33	88.67	28.02	-137.98	3,430.00	362.04	263.20	98.83	3.663			
6,850.00	3,446.47	6,544.72	3,126.87	89.55	89.89	28.02	-137.47	3,480.00	362.04	261.89	100.15	3.615			
6,900.00	3,446.99	6,594.72	3,127.39	90.77	91.11	28.02	-136.96	3,529.99	362.04	260.57	101.47	3.568			
6,950.00	3,447.52	6,644.72	3,127.91	91.99	92.33	28.02	-136.44	3,579.99	362.05	259.26	102.79	3.522			
7,000.00	3,448.04	6,694.72	3,128.43	93.21	93.55	28.02	-135.93	3,629.98	362.05	257.94	104.11	3.478			
7,050.00	3,448.57	6,744.72	3,128.96	94.43	94.77	28.02	-135.42	3,679.98	362.05	256.62	105.43	3.434			
7,100.00	3,449.09	6,794.72	3,129.48	95.65	96.00	28.02	-134.90	3,729.97	362.06	255.31	106.75	3.392			
7,150.00	3,449.61	6,844.72	3,130.00	96.87	97.22	28.02	-134.39	3,779.97	362.06	253.99	108.07	3.350			
7,200.00	3,450.14	6,894.72	3,130.52	98.09	98.44	28.02	-133.87	3,829.96	362.06	252.67	109.39	3.310			
7,250.00	3,450.66	6,944.72	3,131.04	99.31	99.66	28.02	-133.36	3,879.95	362.07	251.35	110.72	3.270			
7,300.00	3,451.18	6,994.72	3,131.56	100.53	100.88	28.02	-132.85	3,929.95	362.07	250.03	112.04	3.232			
7,350.00	3,451.71	7,044.72	3,132.08	101.76	102.11	28.02	-132.33	3,979.94	362.07	248.71	113.36	3.194			
7,400.00	3,452.23	7,094.72	3,132.60	102.98	103.33	28.02	-131.82	4,029.94	362.08	247.39	114.69	3.157			

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

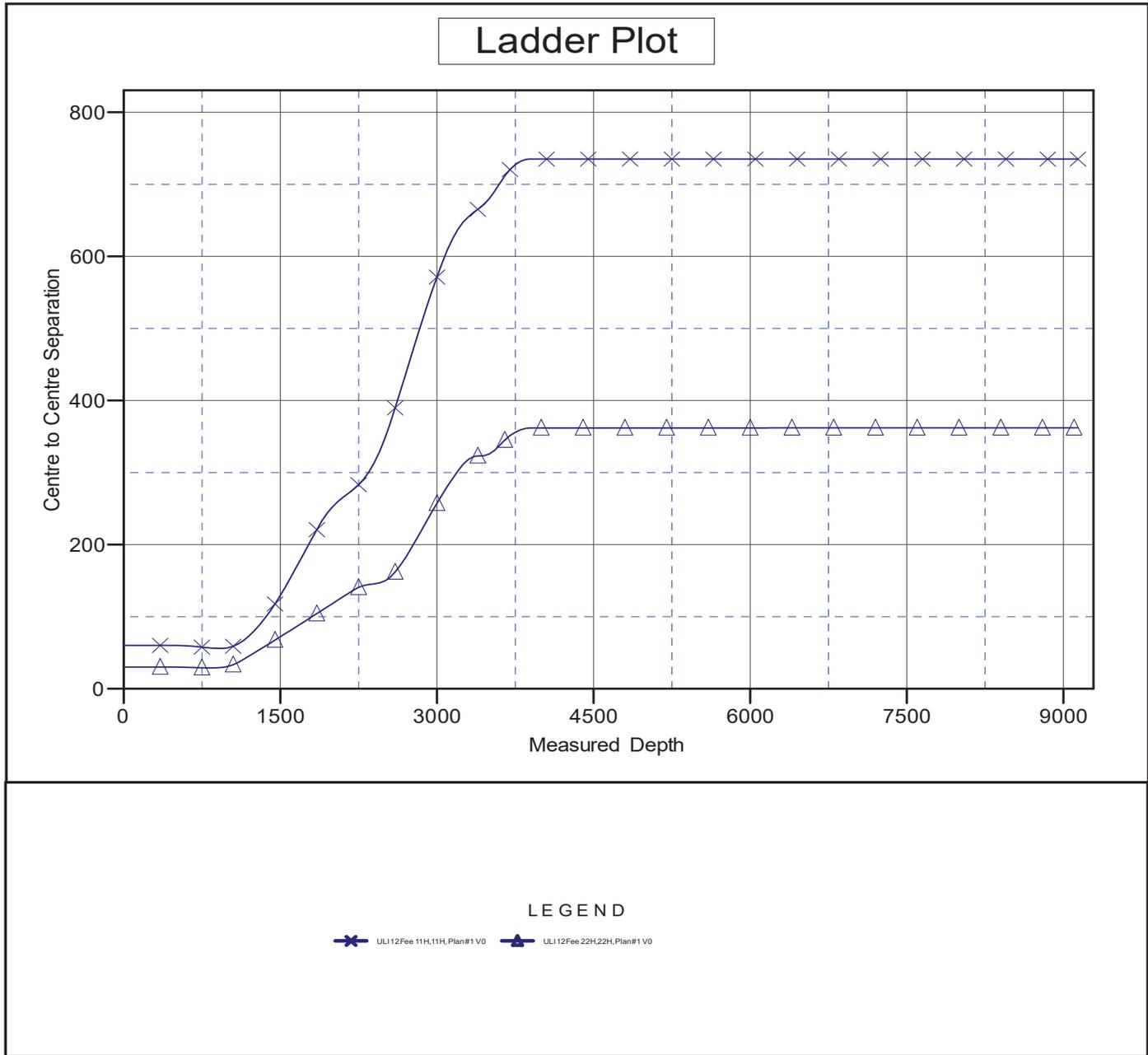
Offset Design														Offset Site Error:	0.00 usft	
Survey Program: 0-MWD														Offset Well Error:		0.00 usft
Reference				Offset				Semi Major Axis				Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
7,450.00	3,452.75	7,144.72	3,133.12	104.20	104.55	28.02	-131.31	4,079.93	362.08	246.07	116.01	3.121				
7,500.00	3,453.28	7,194.72	3,133.64	105.42	105.78	28.02	-130.79	4,129.93	362.08	244.74	117.34	3.086				
7,550.00	3,453.80	7,244.72	3,134.16	106.65	107.00	28.02	-130.28	4,179.92	362.08	243.42	118.66	3.051				
7,600.00	3,454.32	7,294.72	3,134.68	107.87	108.22	28.02	-129.76	4,229.92	362.09	242.10	119.99	3.018				
7,650.00	3,454.85	7,344.72	3,135.20	109.09	109.45	28.02	-129.25	4,279.91	362.09	240.77	121.32	2.985				
7,700.00	3,455.37	7,394.72	3,135.72	110.31	110.67	28.01	-128.74	4,329.91	362.09	239.45	122.64	2.952				
7,750.00	3,455.90	7,444.72	3,136.24	111.54	111.90	28.01	-128.22	4,379.90	362.10	238.13	123.97	2.921				
7,800.00	3,456.42	7,494.72	3,136.77	112.76	113.12	28.01	-127.71	4,429.90	362.10	236.80	125.30	2.890				
7,850.00	3,456.94	7,544.72	3,137.29	113.99	114.34	28.01	-127.20	4,479.89	362.10	235.48	126.63	2.860				
7,900.00	3,457.47	7,594.72	3,137.81	115.21	115.57	28.01	-126.68	4,529.89	362.11	234.15	127.95	2.830				
7,950.00	3,457.99	7,644.72	3,138.33	116.43	116.79	28.01	-126.17	4,579.88	362.11	232.83	129.28	2.801				
8,000.00	3,458.51	7,694.72	3,138.85	117.66	118.02	28.01	-125.66	4,629.87	362.11	231.50	130.61	2.772				
8,050.00	3,459.04	7,744.72	3,139.37	118.88	119.24	28.01	-125.14	4,679.87	362.12	230.17	131.94	2.744				
8,100.00	3,459.56	7,794.72	3,139.89	120.11	120.47	28.01	-124.63	4,729.86	362.12	228.85	133.27	2.717				
8,150.00	3,460.08	7,844.72	3,140.41	121.33	121.70	28.01	-124.11	4,779.86	362.12	227.52	134.60	2.690				
8,200.00	3,460.61	7,894.72	3,140.93	122.56	122.92	28.01	-123.60	4,829.85	362.13	226.19	135.93	2.664				
8,250.00	3,461.13	7,944.72	3,141.45	123.78	124.15	28.01	-123.09	4,879.85	362.13	224.86	137.26	2.638				
8,300.00	3,461.66	7,994.72	3,141.97	125.01	125.37	28.01	-122.57	4,929.84	362.13	223.54	138.59	2.613				
8,350.00	3,462.18	8,044.72	3,142.49	126.23	126.60	28.01	-122.06	4,979.84	362.13	222.21	139.93	2.588				
8,400.00	3,462.70	8,094.72	3,143.01	127.46	127.82	28.01	-121.55	5,029.83	362.14	220.88	141.26	2.564				
8,450.00	3,463.23	8,144.72	3,143.53	128.68	129.05	28.01	-121.03	5,079.83	362.14	219.55	142.59	2.540				
8,500.00	3,463.75	8,194.72	3,144.05	129.91	130.28	28.01	-120.52	5,129.82	362.14	218.22	143.92	2.516				
8,550.00	3,464.27	8,244.72	3,144.58	131.14	131.50	28.01	-120.01	5,179.82	362.15	216.89	145.25	2.493				
8,600.00	3,464.80	8,294.72	3,145.10	132.36	132.73	28.01	-119.49	5,229.81	362.15	215.56	146.59	2.471				
8,650.00	3,465.32	8,344.72	3,145.62	133.59	133.96	28.01	-118.98	5,279.81	362.15	214.23	147.92	2.448				
8,700.00	3,465.84	8,394.72	3,146.14	134.81	135.18	28.01	-118.46	5,329.80	362.16	212.91	149.25	2.426				
8,750.00	3,466.37	8,444.72	3,146.66	136.04	136.41	28.01	-117.95	5,379.79	362.16	211.57	150.58	2.405				
8,800.00	3,466.89	8,494.72	3,147.18	137.27	137.64	28.01	-117.44	5,429.79	362.16	210.24	151.92	2.384				
8,850.00	3,467.41	8,544.72	3,147.70	138.49	138.87	28.01	-116.92	5,479.78	362.17	208.91	153.25	2.363				
8,900.00	3,467.94	8,594.72	3,148.22	139.72	140.09	28.01	-116.41	5,529.78	362.17	207.58	154.59	2.343				
8,950.00	3,468.46	8,644.72	3,148.74	140.95	141.32	28.01	-115.90	5,579.77	362.17	206.25	155.92	2.323				
9,000.00	3,468.99	8,694.72	3,149.26	142.17	142.55	28.01	-115.38	5,629.77	362.18	204.92	157.25	2.303				
9,050.00	3,469.51	8,744.72	3,149.78	143.40	143.77	28.01	-114.87	5,679.76	362.18	203.59	158.58	2.284				
9,050.31	3,469.51	8,745.04	3,149.79	143.41	143.78	28.01	-114.87	5,680.08	362.18	203.59	158.59	2.284				
9,100.00	3,470.03	8,794.72	3,150.30	144.63	145.00	28.01	-114.35	5,729.76	362.18	202.27	159.92	2.265				
9,102.46	3,470.06	8,797.18	3,150.33	144.69	145.06	28.01	-114.33	5,732.21	362.18	202.20	159.98	2.264				
9,140.32	3,470.45	8,829.97	3,150.67	145.62	145.87	28.01	-113.99	5,765.00	362.22	201.32	160.90	2.251 SF				

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

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3307+23 @ 3330.00usft (akita) Coordinates are relative to: ULI 12 Fee 31H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Central Meridian is -104.3333333 Grid Convergence at Surface is: -0.01°



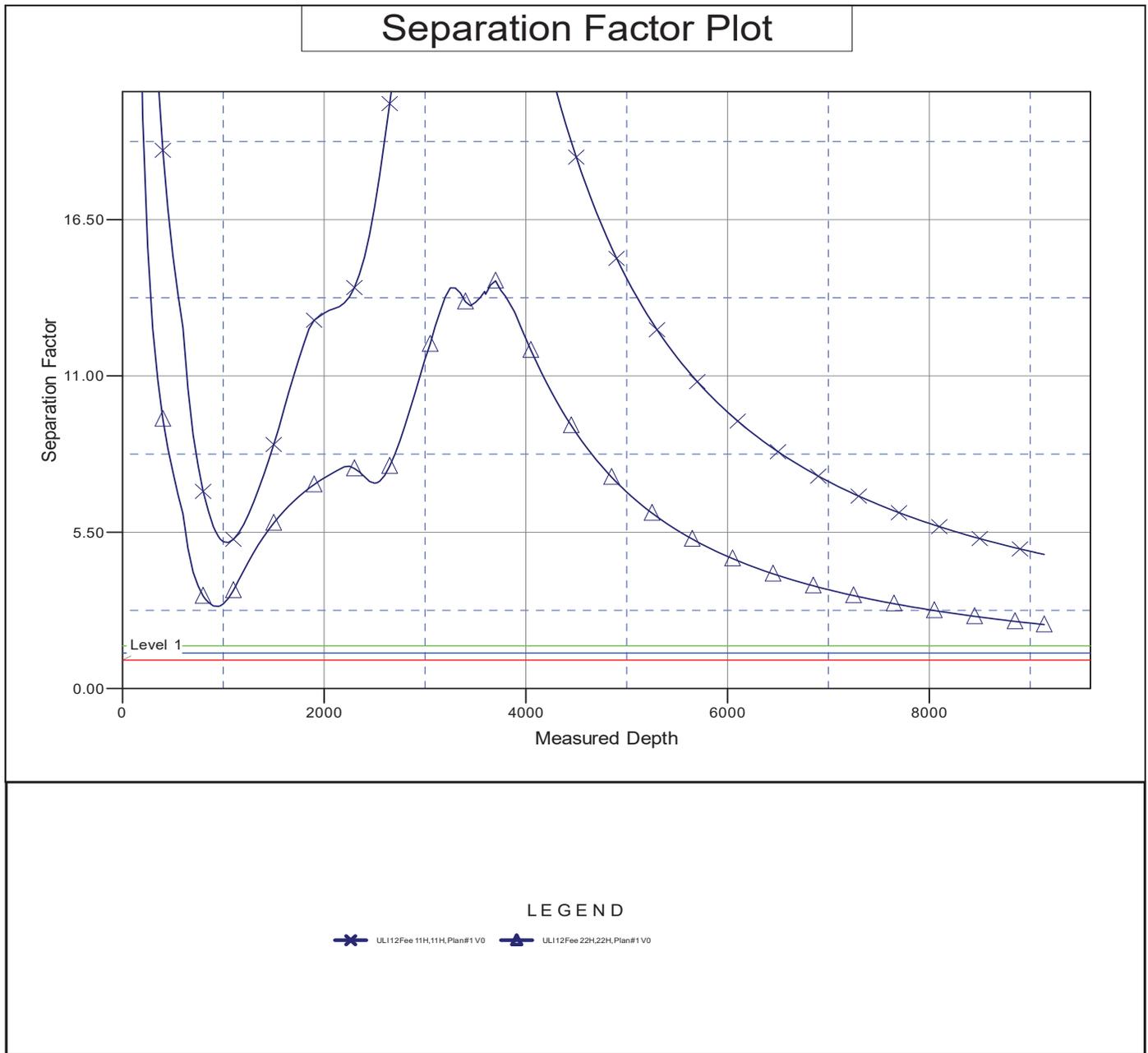
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	RILEY PERMIAN OPERATING CO., LLC	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference:	3307+23 @ 3330.00usft (akita)
Reference Site:	ULI Pad	MD Reference:	3307+23 @ 3330.00usft (akita)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	31H	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to 3307+23 @ 3330.00usft (akita)
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.3333333

Coordinates are relative to: ULI 12 Fee 31H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: -0.01°



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

RILEY PERMIAN OPERATING CO., LLC

Eddy County, NM (NAD83) NMEZ Grid

ULI Pad

ULI 12 Fee 31H

31H

Plan: Plan #1

Standard Planning Report

02 February, 2026

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Company:	RILEY PERMIAN OPERATING CO., LLC	TVD Reference:	3307+23 @ 3330.00usft (akita)
Project:	Eddy County, NM (NAD83) NMEZ Grid	MD Reference:	3307+23 @ 3330.00usft (akita)
Site:	ULI Pad	North Reference:	Grid
Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	31H		
Design:	Plan #1		

Project	Eddy County, NM (NAD83) NMEZ Grid		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	ULI Pad				
Site Position:		Northing:	638,952.00 usft	Latitude:	32.7565144
From:	Map	Easting:	537,643.00 usft	Longitude:	-104.3453512
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-0.01 °

Well	ULI 12 Fee 31H					
Well Position	+N/-S	-0.01 usft	Northing:	638,952.00 usft	Latitude:	32.7565143
	+E/-W	30.00 usft	Easting:	537,673.00 usft	Longitude:	-104.3452536
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,307.00 usft

Wellbore	31H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	01/27/26	6.60	60.10	47,185.20000000

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.41

Plan Survey Tool Program	Date	01/28/26		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	9,140.32 Plan #1 (31H)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	
967.86	9.36	268.91	965.78	-0.72	-38.11	2.00	2.00	0.00	268.91	
2,524.81	9.36	268.91	2,502.02	-5.54	-291.21	0.00	0.00	0.00	0.00	
3,391.77	60.00	89.41	3,238.70	-2.65	57.35	8.00	5.84	-20.70	-179.54	
3,591.77	60.00	89.41	3,338.70	-0.87	230.55	0.00	0.00	0.00	0.00	
3,885.77	89.40	89.41	3,415.43	2.02	511.01	10.00	10.00	0.00	0.00	
9,050.31	89.40	89.41	3,469.51	55.20	5,675.00	0.00	0.00	0.00	0.00	ULI31H LTP 500FSL_
9,140.32	89.40	89.41	3,470.45	56.13	5,765.00	0.00	0.00	0.00	0.00	ULI31H PBHL 500FSI

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Company:	RILEY PERMIAN OPERATING CO., LLC	TVD Reference:	3307+23 @ 3330.00usft (akita)
Project:	Eddy County, NM (NAD83) NMEZ Grid	MD Reference:	3307+23 @ 3330.00usft (akita)
Site:	ULI Pad	North Reference:	Grid
Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	31H		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00
Quaternary									
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
483.00	0.00	0.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
600.00	2.00	268.91	599.98	-0.03	-1.74	-1.75	2.00	2.00	0.00
700.00	4.00	268.91	699.84	-0.13	-6.98	-6.98	2.00	2.00	0.00
800.00	6.00	268.91	799.45	-0.30	-15.69	-15.69	2.00	2.00	0.00
900.00	8.00	268.91	898.70	-0.53	-27.87	-27.88	2.00	2.00	0.00
965.04	9.30	268.91	963.00	-0.72	-37.66	-37.66	2.00	2.00	0.00
Grayburg									
967.86	9.36	268.91	965.78	-0.72	-38.11	-38.12	2.00	2.00	0.00
Start 1556.95 hold at 967.86 MD									
1,000.00	9.36	268.91	997.50	-0.82	-43.34	-43.34	0.00	0.00	0.00
1,100.00	9.36	268.91	1,096.16	-1.13	-59.59	-59.60	0.00	0.00	0.00
1,200.00	9.36	268.91	1,194.83	-1.44	-75.85	-75.86	0.00	0.00	0.00
1,208.28	9.36	268.91	1,203.00	-1.47	-77.19	-77.21	0.00	0.00	0.00
San Andres									
1,300.00	9.36	268.91	1,293.50	-1.75	-92.10	-92.12	0.00	0.00	0.00
1,400.00	9.36	268.91	1,392.17	-2.06	-108.36	-108.38	0.00	0.00	0.00
1,500.00	9.36	268.91	1,490.84	-2.37	-124.62	-124.63	0.00	0.00	0.00
1,600.00	9.36	268.91	1,589.51	-2.68	-140.87	-140.89	0.00	0.00	0.00
1,700.00	9.36	268.91	1,688.18	-2.99	-157.13	-157.15	0.00	0.00	0.00
1,800.00	9.36	268.91	1,786.85	-3.30	-173.38	-173.41	0.00	0.00	0.00
1,900.00	9.36	268.91	1,885.52	-3.61	-189.64	-189.67	0.00	0.00	0.00
2,000.00	9.36	268.91	1,984.19	-3.92	-205.90	-205.93	0.00	0.00	0.00
2,100.00	9.36	268.91	2,082.86	-4.22	-222.15	-222.18	0.00	0.00	0.00
2,200.00	9.36	268.91	2,181.53	-4.53	-238.41	-238.44	0.00	0.00	0.00
2,300.00	9.36	268.91	2,280.20	-4.84	-254.66	-254.70	0.00	0.00	0.00
2,400.00	9.36	268.91	2,378.87	-5.15	-270.92	-270.96	0.00	0.00	0.00
2,401.15	9.36	268.91	2,380.00	-5.15	-271.11	-271.14	0.00	0.00	0.00
Glorieta									
2,482.23	9.36	268.91	2,460.00	-5.41	-284.29	-284.33	0.00	0.00	0.00
Paddock									
2,500.00	9.36	268.91	2,477.54	-5.46	-287.17	-287.22	0.00	0.00	0.00
2,524.81	9.36	268.91	2,502.02	-5.54	-291.21	-291.25	0.00	0.00	0.00
KOP Start DLS 8.00 TFO -179.54									
2,550.00	7.34	268.78	2,526.94	-5.61	-294.86	-294.91	8.00	-8.00	-0.50
2,600.00	3.34	268.08	2,576.71	-5.73	-299.52	-299.56	8.00	-8.00	-1.41
2,650.00	0.66	95.88	2,626.69	-5.81	-300.69	-300.73	8.00	-5.36	-344.41
2,700.00	4.66	90.29	2,676.62	-5.85	-298.37	-298.41	8.00	7.99	-11.18
2,750.00	8.66	89.86	2,726.28	-5.85	-292.57	-292.62	8.00	8.00	-0.86
2,800.00	12.66	89.70	2,775.40	-5.81	-283.33	-283.37	8.00	8.00	-0.32
2,850.00	16.66	89.62	2,823.77	-5.73	-270.68	-270.72	8.00	8.00	-0.17
2,877.55	18.86	89.59	2,850.00	-5.67	-262.27	-262.32	8.00	8.00	-0.11
Blinebry									
2,900.00	20.66	89.57	2,871.13	-5.62	-254.68	-254.73	8.00	8.00	-0.09

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Company:	RILEY PERMIAN OPERATING CO., LLC	TVD Reference:	3307+23 @ 3330.00usft (akita)
Project:	Eddy County, NM (NAD83) NMEZ Grid	MD Reference:	3307+23 @ 3330.00usft (akita)
Site:	ULI Pad	North Reference:	Grid
Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	31H		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,950.00	24.66	89.53	2,917.26	-5.47	-235.43	-235.47	8.00	8.00	-0.07	
3,000.00	28.66	89.50	2,961.94	-5.28	-213.00	-213.04	8.00	8.00	-0.05	
3,050.00	32.66	89.48	3,004.94	-5.05	-187.51	-187.55	8.00	8.00	-0.04	
3,100.00	36.66	89.47	3,046.06	-4.79	-159.08	-159.12	8.00	8.00	-0.03	
3,150.00	40.66	89.45	3,085.09	-4.50	-127.85	-127.89	8.00	8.00	-0.03	
3,200.00	44.66	89.44	3,121.86	-4.17	-93.98	-94.02	8.00	8.00	-0.02	
3,250.00	48.66	89.43	3,156.17	-3.81	-57.63	-57.66	8.00	8.00	-0.02	
3,300.00	52.66	89.42	3,187.86	-3.43	-18.97	-19.00	8.00	8.00	-0.02	
3,350.00	56.66	89.42	3,216.77	-3.01	21.81	21.78	8.00	8.00	-0.02	
3,391.77	60.00	89.41	3,238.70	-2.65	57.35	57.32	8.00	8.00	-0.01	
60DEG Start 200.00 hold at 3391.77 MD										
3,400.00	60.00	89.41	3,242.82	-2.58	64.48	64.45	0.00	0.00	0.00	
3,500.00	60.00	89.41	3,292.82	-1.68	151.08	151.05	0.00	0.00	0.00	
3,591.77	60.00	89.41	3,338.70	-0.87	230.55	230.52	0.00	0.00	0.00	
Start DLS 10.00 TFO 0.00										
3,600.00	60.82	89.41	3,342.76	-0.79	237.70	237.68	10.00	10.00	0.00	
3,650.00	65.82	89.41	3,365.21	-0.33	282.36	282.35	10.00	10.00	0.00	
3,700.00	70.82	89.41	3,383.67	0.15	328.81	328.80	10.00	10.00	0.00	
3,750.00	75.82	89.41	3,398.01	0.64	376.69	376.68	10.00	10.00	0.00	
3,800.00	80.82	89.41	3,408.13	1.14	425.64	425.63	10.00	10.00	0.00	
3,850.00	85.82	89.41	3,413.94	1.65	475.28	475.27	10.00	10.00	0.00	
3,876.26	88.45	89.41	3,415.25	1.92	501.51	501.50	10.00	10.00	0.00	
Target										
3,885.77	89.40	89.41	3,415.43	2.02	511.01	511.00	10.00	10.00	0.00	
FTP Start 5164.55 hold at 3885.77 MD										
3,900.00	89.40	89.41	3,415.58	2.17	525.24	525.23	0.00	0.00	0.00	
4,000.00	89.40	89.41	3,416.63	3.20	625.23	625.23	0.00	0.00	0.00	
4,100.00	89.40	89.41	3,417.67	4.23	725.22	725.22	0.00	0.00	0.00	
4,200.00	89.40	89.41	3,418.72	5.26	825.21	825.22	0.00	0.00	0.00	
4,300.00	89.40	89.41	3,419.77	6.29	925.20	925.21	0.00	0.00	0.00	
4,400.00	89.40	89.41	3,420.82	7.32	1,025.19	1,025.21	0.00	0.00	0.00	
4,500.00	89.40	89.41	3,421.86	8.35	1,125.18	1,125.20	0.00	0.00	0.00	
4,600.00	89.40	89.41	3,422.91	9.38	1,225.16	1,225.20	0.00	0.00	0.00	
4,700.00	89.40	89.41	3,423.96	10.41	1,325.15	1,325.19	0.00	0.00	0.00	
4,800.00	89.40	89.41	3,425.00	11.44	1,425.14	1,425.19	0.00	0.00	0.00	
4,900.00	89.40	89.41	3,426.05	12.46	1,525.13	1,525.18	0.00	0.00	0.00	
5,000.00	89.40	89.41	3,427.10	13.49	1,625.12	1,625.17	0.00	0.00	0.00	
5,100.00	89.40	89.41	3,428.15	14.52	1,725.11	1,725.17	0.00	0.00	0.00	
5,200.00	89.40	89.41	3,429.19	15.55	1,825.10	1,825.16	0.00	0.00	0.00	
5,300.00	89.40	89.41	3,430.24	16.58	1,925.09	1,925.16	0.00	0.00	0.00	
5,400.00	89.40	89.41	3,431.29	17.61	2,025.08	2,025.15	0.00	0.00	0.00	
5,500.00	89.40	89.41	3,432.33	18.64	2,125.07	2,125.15	0.00	0.00	0.00	
5,600.00	89.40	89.41	3,433.38	19.67	2,225.06	2,225.14	0.00	0.00	0.00	
5,700.00	89.40	89.41	3,434.43	20.70	2,325.05	2,325.14	0.00	0.00	0.00	
5,800.00	89.40	89.41	3,435.48	21.73	2,425.04	2,425.13	0.00	0.00	0.00	
5,900.00	89.40	89.41	3,436.52	22.76	2,525.02	2,525.13	0.00	0.00	0.00	
6,000.00	89.40	89.41	3,437.57	23.79	2,625.01	2,625.12	0.00	0.00	0.00	
6,100.00	89.40	89.41	3,438.62	24.82	2,725.00	2,725.11	0.00	0.00	0.00	
6,200.00	89.40	89.41	3,439.66	25.85	2,824.99	2,825.11	0.00	0.00	0.00	
6,300.00	89.40	89.41	3,440.71	26.88	2,924.98	2,925.10	0.00	0.00	0.00	
6,400.00	89.40	89.41	3,441.76	27.91	3,024.97	3,025.10	0.00	0.00	0.00	
6,500.00	89.40	89.41	3,442.81	28.94	3,124.96	3,125.09	0.00	0.00	0.00	
6,600.00	89.40	89.41	3,443.85	29.97	3,224.95	3,225.09	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Company:	RILEY PERMIAN OPERATING CO., LLC	TVD Reference:	3307+23 @ 3330.00usft (akita)
Project:	Eddy County, NM (NAD83) NMEZ Grid	MD Reference:	3307+23 @ 3330.00usft (akita)
Site:	ULI Pad	North Reference:	Grid
Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	31H		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,700.00	89.40	89.41	3,444.90	31.00	3,324.94	3,325.08	0.00	0.00	0.00
6,800.00	89.40	89.41	3,445.95	32.03	3,424.93	3,425.08	0.00	0.00	0.00
6,900.00	89.40	89.41	3,446.99	33.06	3,524.92	3,525.07	0.00	0.00	0.00
7,000.00	89.40	89.41	3,448.04	34.09	3,624.91	3,625.07	0.00	0.00	0.00
7,100.00	89.40	89.41	3,449.09	35.12	3,724.90	3,725.06	0.00	0.00	0.00
7,200.00	89.40	89.41	3,450.14	36.15	3,824.88	3,825.05	0.00	0.00	0.00
7,300.00	89.40	89.41	3,451.18	37.18	3,924.87	3,925.05	0.00	0.00	0.00
7,400.00	89.40	89.41	3,452.23	38.21	4,024.86	4,025.04	0.00	0.00	0.00
7,500.00	89.40	89.41	3,453.28	39.24	4,124.85	4,125.04	0.00	0.00	0.00
7,600.00	89.40	89.41	3,454.32	40.27	4,224.84	4,225.03	0.00	0.00	0.00
7,700.00	89.40	89.41	3,455.37	41.30	4,324.83	4,325.03	0.00	0.00	0.00
7,800.00	89.40	89.41	3,456.42	42.33	4,424.82	4,425.02	0.00	0.00	0.00
7,900.00	89.40	89.41	3,457.47	43.36	4,524.81	4,525.02	0.00	0.00	0.00
8,000.00	89.40	89.41	3,458.51	44.38	4,624.80	4,625.01	0.00	0.00	0.00
8,100.00	89.40	89.41	3,459.56	45.41	4,724.79	4,725.00	0.00	0.00	0.00
8,200.00	89.40	89.41	3,460.61	46.44	4,824.78	4,825.00	0.00	0.00	0.00
8,300.00	89.40	89.41	3,461.66	47.47	4,924.77	4,924.99	0.00	0.00	0.00
8,400.00	89.40	89.41	3,462.70	48.50	5,024.76	5,024.99	0.00	0.00	0.00
8,500.00	89.40	89.41	3,463.75	49.53	5,124.74	5,124.98	0.00	0.00	0.00
8,600.00	89.40	89.41	3,464.80	50.56	5,224.73	5,224.98	0.00	0.00	0.00
8,700.00	89.40	89.41	3,465.84	51.59	5,324.72	5,324.97	0.00	0.00	0.00
8,800.00	89.40	89.41	3,466.89	52.62	5,424.71	5,424.97	0.00	0.00	0.00
8,900.00	89.40	89.41	3,467.94	53.65	5,524.70	5,524.96	0.00	0.00	0.00
9,000.00	89.40	89.41	3,468.99	54.68	5,624.69	5,624.96	0.00	0.00	0.00
9,050.31	89.40	89.41	3,469.51	55.20	5,675.00	5,675.27	0.00	0.00	0.00
LTP Start 90.01 hold at 9050.31 MD									
9,100.00	89.40	89.41	3,470.03	55.71	5,724.68	5,724.95	0.00	0.00	0.00
9,140.32	89.40	89.41	3,470.45	56.13	5,765.00	5,765.27	0.00	0.00	0.00
PBHL TD at 9140.32									

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well ULI 12 Fee 31H
Company:	RILEY PERMIAN OPERATING CO., LLC	TVD Reference:	3307+23 @ 3330.00usft (akita)
Project:	Eddy County, NM (NAD83) NMEZ Grid	MD Reference:	3307+23 @ 3330.00usft (akita)
Site:	ULI Pad	North Reference:	Grid
Well:	ULI 12 Fee 31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	31H		
Design:	Plan #1		

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
- Shape										
ULI31H SHL 497FSL_41 - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	638,952.00	537,673.00	32.7565143	-104.3452536	
ULI31H KOP - plan hits target center - Point	0.00	360.00	2,502.02	-5.54	-291.21	638,946.46	537,381.79	32.7564990	-104.3462009	
ULI31H 60DEG - plan hits target center - Point	0.00	360.00	3,238.70	-2.65	57.35	638,949.35	537,730.35	32.7565071	-104.3450671	
ULI31H FTP 500FSL_1C - plan misses target center by 0.01usft at 3885.76usft MD (3415.43 TVD, 2.02 N, 511.00 E) - Point	0.00	360.00	3,415.43	2.01	511.00	638,954.00	538,184.00	32.7565200	-104.3435914	
ULI31H LTP 500FSL_10 - plan misses target center by 0.19usft at 9050.31usft MD (3469.51 TVD, 55.20 N, 5675.00 E) - Point	0.00	0.01	3,469.51	55.01	5,675.00	639,007.00	543,348.00	32.7566659	-104.3267933	
ULI31H PBHL 500FSL_ - plan misses target center by 0.12usft at 9140.32usft MD (3470.45 TVD, 56.13 N, 5765.00 E) - Point	0.00	0.01	3,470.45	56.01	5,765.00	639,008.00	543,438.00	32.7566687	-104.3265005	

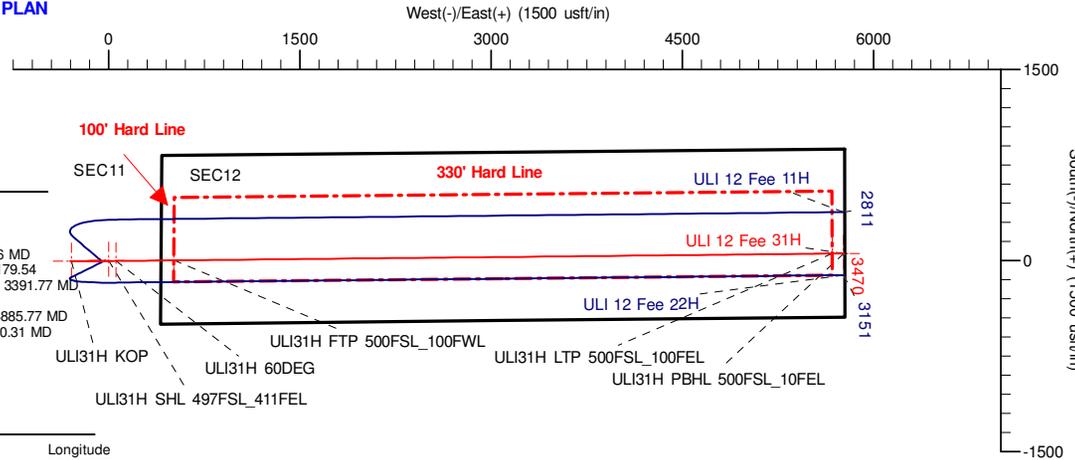
Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
18.00	18.00	Quaternary		0.00		
483.00	483.00	Queen		0.00		
965.04	963.00	Grayburg		0.00		
1,208.28	1,203.00	San Andres		0.00		
2,401.15	2,380.00	Glorieta		0.00		
2,482.23	2,460.00	Paddock		0.00		
2,877.55	2,850.00	Blinebry		0.00		
3,876.26	3,415.25	Target		0.60	89.41	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(usft)	(usft)	+N/-S	+E/-W		
		(usft)	(usft)		
500.00	500.00	0.00	0.00	Start Build 2.00	
967.86	965.78	-0.72	-38.11	Start 1556.95 hold at 967.86 MD	
2,524.81	2,502.02	-5.54	-291.21	KOP Start DLS 8.00 TFO -179.54	
3,391.77	3,238.70	-2.65	57.35	60DEG Start 200.00 hold at 3391.77 MD	
3,591.77	3,338.70	-0.87	230.55	Start DLS 10.00 TFO 0.00	
3,885.77	3,415.43	2.02	511.01	FTP Start 5164.55 hold at 3885.77 MD	
9,050.31	3,469.51	55.20	5,675.00	LTP Start 90.01 hold at 9050.31 MD	
9,140.32	3,470.45	56.13	5,765.00	PBHL TD at 9140.32	

RILEY PERMIAN OPERATING CO., LLC PRELIMINARY PLAN

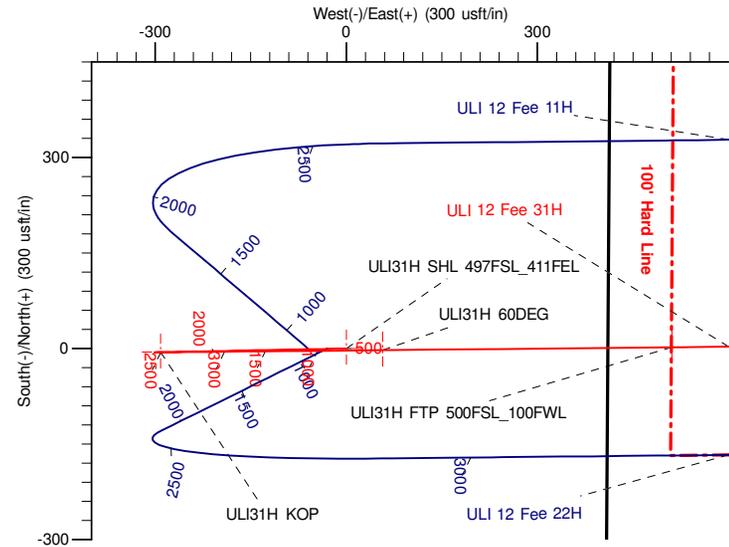
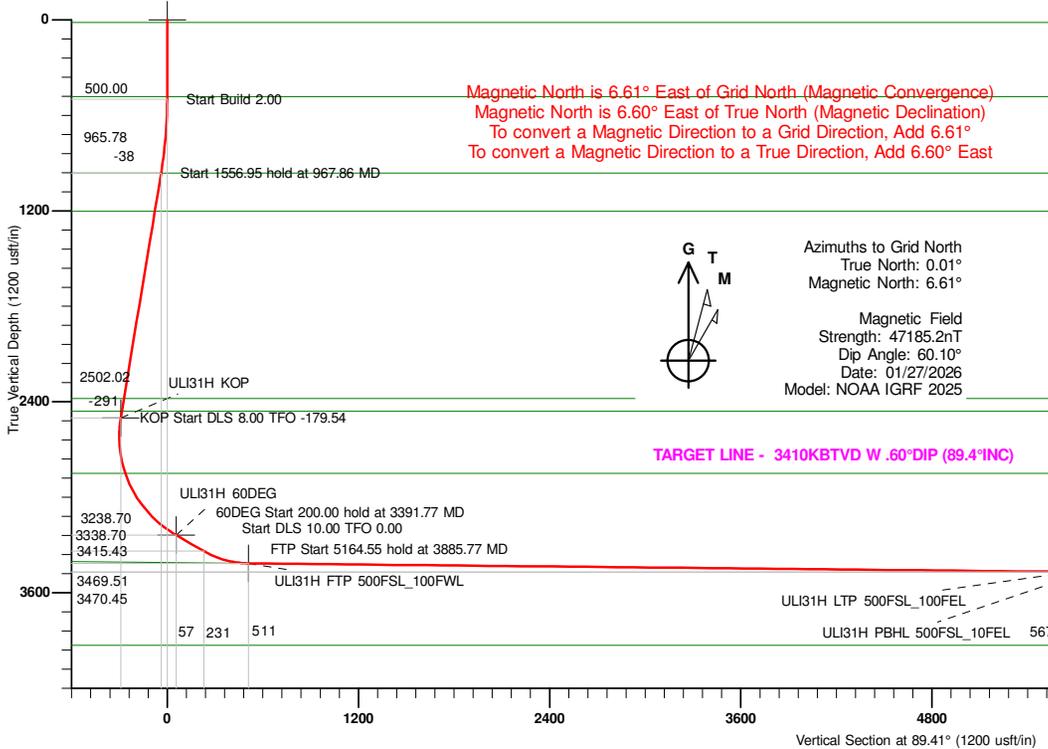
Project: Eddy County, NM (NAD83) NMEZ Grid
 Site: ULI Pad
 Well: ULI 12 Fee 31H
 Wellbore: 31H
 Design: Plan #1

3307+23 @ 3330.00usft (akita)
 GL+KB



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Start 1556.95 hold at 967.86 MD
3	967.86	9.36	268.91	965.78	-0.72	-38.11	2.00	268.91	-38.12	KOP Start DLS 8.00 TFO -179.54
4	2524.81	9.36	268.91	2502.02	-5.54	-291.21	0.00	0.00	-291.25	60DEG Start 200.00 hold at 3391.77 MD
5	3391.77	60.00	89.41	3238.70	-2.65	57.35	8.00	-179.54	57.32	Start DLS 10.00 TFO 0.00
6	3591.77	60.00	89.41	3338.70	-0.87	230.55	0.00	0.00	230.52	FTP Start 5164.55 hold at 3885.77 MD
7	3885.77	89.40	89.41	3415.43	2.02	511.01	10.00	0.00	511.00	LTP Start 90.01 hold at 9050.31 MD
8	9050.31	89.40	89.41	3469.51	55.20	5675.00	0.00	0.00	5675.27	PBHL TD at 9140.32
9	9140.32	89.40	89.41	3470.45	56.13	5765.00	0.00	0.00	5765.27	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
ULI31H SHL 497FSL_411FEL	0.00	0.00	0.00	638951.99	537673.00	32.7565143	-104.3452537
ULI31H KOP	2502.02	-5.54	-291.21	638946.45	537381.79	32.7564990	-104.3462009
ULI31H 60DEG	3238.70	-2.65	57.35	638949.34	537730.35	32.7565071	-104.3450671
ULI31H FTP 500FSL_100FWL	3415.43	2.01	511.00	638954.00	538184.00	32.7565200	-104.3435914
ULI31H LTP 500FSL_100FEL	3469.51	55.01	5675.00	639007.00	543348.00	32.7566659	-104.3267933
ULI31H PBHL 500FSL_10FEL	3470.45	56.01	5765.00	639008.00	543438.00	32.7566687	-104.3265006



Plan: Plan #1 (ULI 12 Fee 31H/31H)
 Created By: Mekka Williams
 mekka@esominawelldesign.com
 10:20, February 02 2026

QUANTUM ENERGY TECHNOLOGIES
 1521 E Richey Rd
 Houston, TX 77073



DRILLING PROGRAM



Riley Exploration-Permian, LLC

Uli Main Pad

Uli 12 Fee 31H

Lot P Section 11, Township 18 South, Range 26 East, 6th P.M.

Eddy County, New Mexico

Owner: Bureau of Land Management

Land code: Exempt Agricultural Land

1. Geologic Name of Surface Formation

Quaternary

Estimated Tops of Important Geologic Markers:

Top	Subsea	Top from KB	Lithology	Expected Fluids
Quaternary	3,312	14	Salt	Usable Water
Queen	2,847	479	ANHY/Dolomite	None
Grayburg	2,367	959	ANHY/Dolomite	Natural Gas, Oil
San Andres	2,127	1,199	ANHY/Dolomite	Natural Gas, Oil
Glorieta	950	2,376	ANHY/Dolomite	Natural Gas, Oil
Paddock	870	2,456	ANHY	Natural Gas, Oil
Blinebry	480	2,846	Dolomite	Natural Gas, Oil
Target	-80	3,406		Natural Gas, Oil
Tubb	-600	3,926	Dolomite	

<u>Target @ 0' VS</u>	<u>TVD</u>	<u>INC</u>
	3,406	89.40

2. Blowout Prevention

Variance Requested for flex hose

Riley Permian requests a variance to use a flex line from the BOP to the choke manifold. Documentation will be attached in the APD and be readily available from manufacturer on site. No external damage to the flex line. Flex line to be installed as straight as possible with no bends.

Riley Permian will be utilizing a 5M BOP

Condition	Specify what type and where?
BH Pressure at Deepest TVD	~2,750 psi
Abnormal Temperature	No
BH Temperature at Deepest TVD	110-deg F

BOP/BOPE will be tested by an independent service company to 250 psi low and 70% of working pressure high unless otherwise required, as per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed with be functional and tested.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	Are anchors required by manufacturer?
	A conventional wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. See attached schematics.

3. BOP Break Testing Request

Riley Exploration Permian LLC requests permission to adjust the BOP break testing requirements as follows:

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill the production section, where the surface casing point is shallower than the 3 Bone Spring or 10,000’ TVD
- When skidding to drill a production section that does not penetrate the 3rd Bone Spring or deeper

If the kill line is broken prior to skid, four tests will be performed:

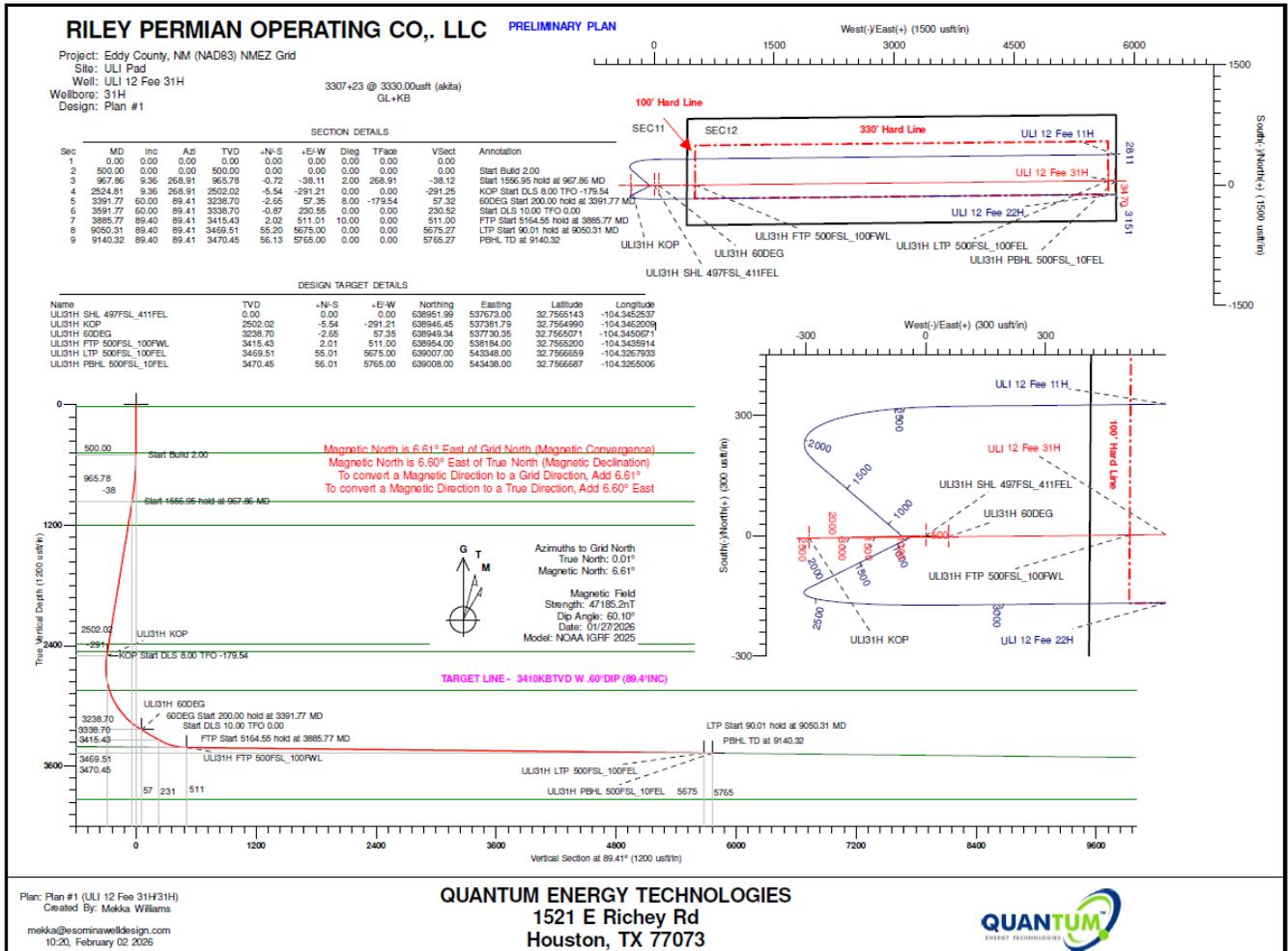
- The void between the wellhead and the spool (one on each side for two tests)
- The spool between the kill lines and the choke manifold (consisting of two tests)

If the kill line is not broken prior to skid, two tests will be performed:

- The void between the wellhead and the pipe rams

4. Proposed Directional Plan

	MD	TVD	Latitude	Longitude
Surface Hole Location	-	-	32.7565143	-104.3452537
Kick Off Point	2,524	2,502	32.7564990	-104.3462009
Bottom Hole Location	9,140	3,470	32.7566687	-104.3265006



5. Proposed Casing Program

All casing strings will be test in accordance with onshore oil and gas order #2 III.B.1.h.

Casing String Type	Hole Size (in.)	Casing Interval		Casing Size (in.)	Weight (lbs.)	Grade	Conn.	SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
		From (ft.)	To (ft.)								
Surface	12.25	0	1250	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
Production	8.75	0	3750	7	32	HCL-80	BTC	1.125	1.2	1.4	1.4
Production	8.75	3750	9140	5.5	20	HCL-80	BTC	1.125	1.2	1.4	1.4
SF Values will MEET or EXCEED											

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

6. Proposed Cement Program:

Casing String	Top (ft.)	Bottom (ft.)	% Excess
Surface (Lead)	0	950	100%
Surface (Tail)	950	1250	100%
Production (Lead)	0	2300	35%+
Production (Tail)	2300	9140	35%+

Casing String	# Sx	Wt. (lb./gal)	Yld (ft3/sk)	H2O (gal/sk)	500# Compressive Strength (hours)	Slurry Description	Additives, Comments
Surface (lead)	450	12.8	1.43	6.65	6:44	50/50 Poz C Premium Plus	20 bbl gel spacer, 50sx of 11# scavenger cement
Surface (tail)	195	14.8	1.33	6.32	8:05	Class C Premium Plus	50sx of 11# scavenger cement
Production (lead)	200	11.5	2.29	12.63	N/A	50/50 Poz C Premium Plus	20 bbl gel spacer, 50sx of 11# scavenger cement
Production (tail)	1575	13.7	1.31	5.61	N/A	35/65 Poz C Premium Plus	50sx of 11# scavenger cement

7. Types and Characteristics of the Proposed Mud System:

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Saltwater Clay, CACL2. Riley will utilize a closed mud system.

Depth		Type	Weight (ppg)	PH	Viscosity (cp)	Water Loss
From (ft.)	To (ft.)					
0	1250	Water-Based Spud Mud	8.6 – 8.9	11	29-33	N/C
1250	TD	Water-Based Mud (Cut Brine)	8.3 – 9.0	11	29-33	N/C

PVT/Pason/Visual Monitoring will be used to monitor the loss or gain of fluid and digitally recorded.

8. Logging, Testing and Coring Program:

Logging, Coring and Testing.		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.	
No	Logs are planned based on well control or offset log information.	
No	Drill stem test? If yes, explain	
No	Coring? If yes, explain	
Additional logs planned	Interval	
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	SCP - TD
No	PEX	

9. Drilling Conditions

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT (Pason), digitally recorded. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Estimated bottom hole at TD is 110 degrees. Low levels of Hydrogen sulfide have been monitors in producing wells in the area, so H2S may be present while drilling of the well; a plan is attached to the Drilling program. No major loss of circulation zones has been reported in offsetting wells.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

NOTES REGARDING THE BLOWOUT PREVENTERS

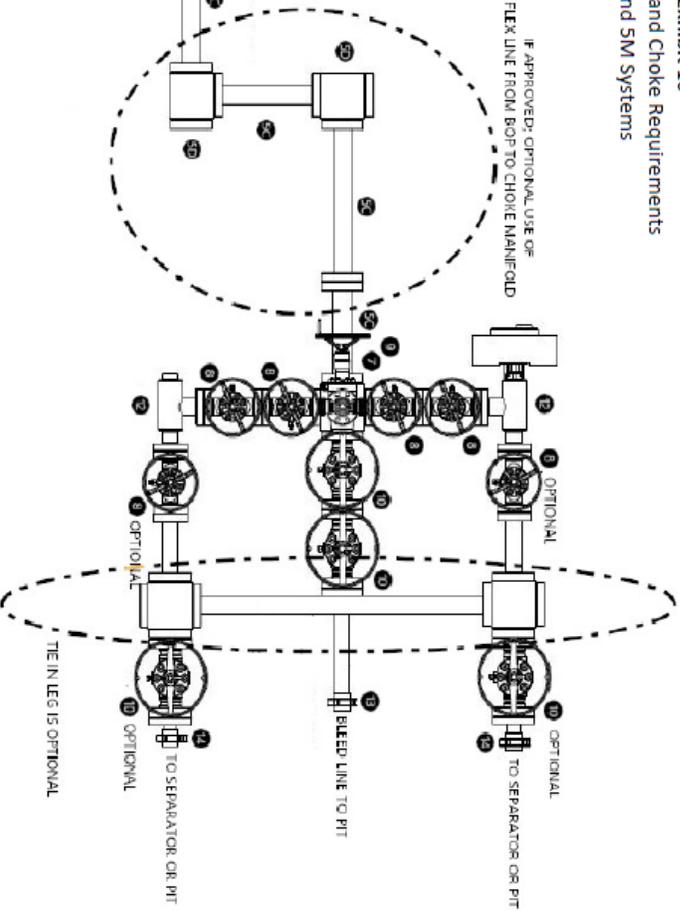
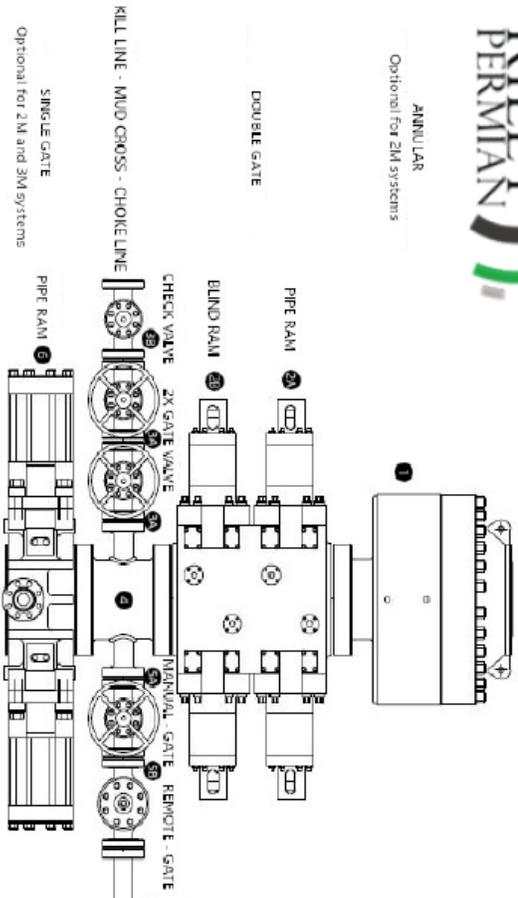
Uli 12 Fee 31H

Eddy County, New Mexico

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 3000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 3000 psi WP minimum.
6. All choke and fill lines to be securely anchored especially ends of choke lines.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on Kelly.
9. Extension wrenches and hands wheels to be properly installed.
10. Blow out preventer control to be located as close to driller's position as feasible.
11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.



Riley Permian
Exhibit 10
Minimum BOP and Choke Requirements
3M and 5M Systems



BOP - Minimum Requirements

Description	ID (in.)	Nom. OD (in.)	Optional	Note
1 Annular			Yes - 2M	
2A Double Gate	Pipe Ram	3 1/8	No	
2B	Blind Ram			
3A	Gate			
3A Kill Line	Gate	2	No	
3B	Check Valve			
4	Mud Cross	2 1/16	No	Kill Line - 2" min. Choke Line - 3" min.
5A	Gate - Manual (2)	3 1/8	No	
5B	Choke Line		No	
5C	Gate - Remote (2)		No	
5D	Line	3	No	
6	Targeted Tee		No	
	Single Gate - Pipe Ram		Yes - 2M and 3M	

Choke Manifold - Minimum Requirements

Description	ID (in.)	3000 MWVP		5000 MWVP		10000 MWVP	
		Nominal OD (in. unless otherwise noted)	Rating (psi)	Nominal OD (in. unless otherwise noted)	Rating (psi)	Nominal OD (in. unless otherwise noted)	Rating (psi)
7		Cross - 3" x 3" x 3" x 2"	3,000		5,000		
8	Valve	Gate (2)	3,000	2 1/16	5,000	3 1/8	10,000
9	Pressure Gauge	Plug	3,000		5,000		10,000
10	Valve	Gate (2)	3,000	3 1/8	5,000	3 1/8	10,000
11	Remote Operated Adjustable Choke (2)	Plug	3,000		5,000		10,000
12	Manual Adjustable Choke	Gate (2)	3,000	2 1/16	5,000		10,000
13	Line		3,000	3	5,000	3	10,000
14	Line		3,000	2	5,000	2	10,000
15	Gas Separator (4)			2' x 5'		2' x 5'	

(1) Only one required in 2M system
 (2) Choke line valve order is interchangeable
 (3) Remote operated hydraulic choke required on 5M and 10M systems

(1) Only one required in 2M system
 (2) Gate valves only to be used for 10M system
 (3) Remote chokes are required for 5M and 10M systems
 (4) Gas separator is optional for 2M and 3M systems

Riley Permian Operating Company, LLC
Onshore Order #6
Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S on metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. **The concentrations of H₂S of wells in this area from surface to TD are low enough that a contingency plan is not required.**

II. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H₂S.

1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating head.

2. Protective equipment for essential personnel:

- A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

- A. 3x portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

- A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

8. Well testing:

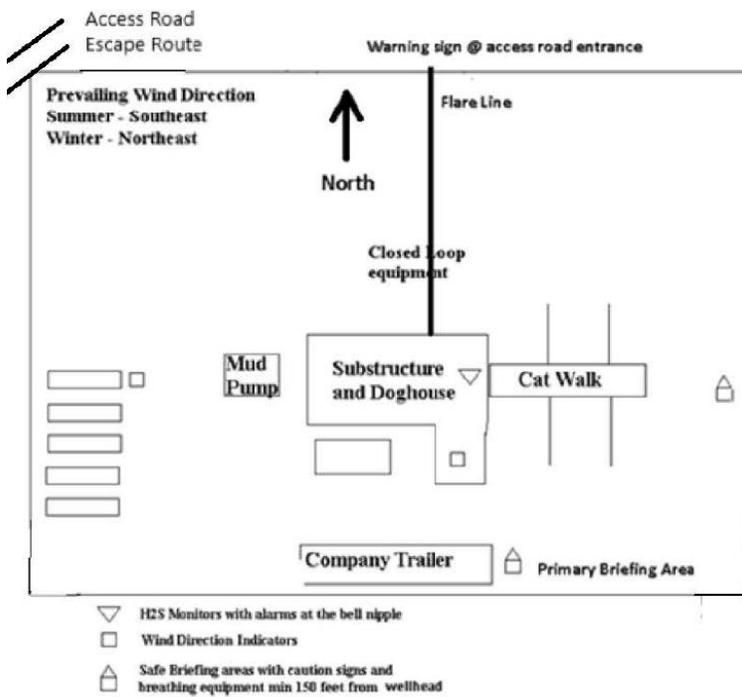
- A. There will be no drill stem testing.

WARNING

**YOU ARE ENTERING AN H2S AREA
AUTHORIZED PERSONNEL ONLY**

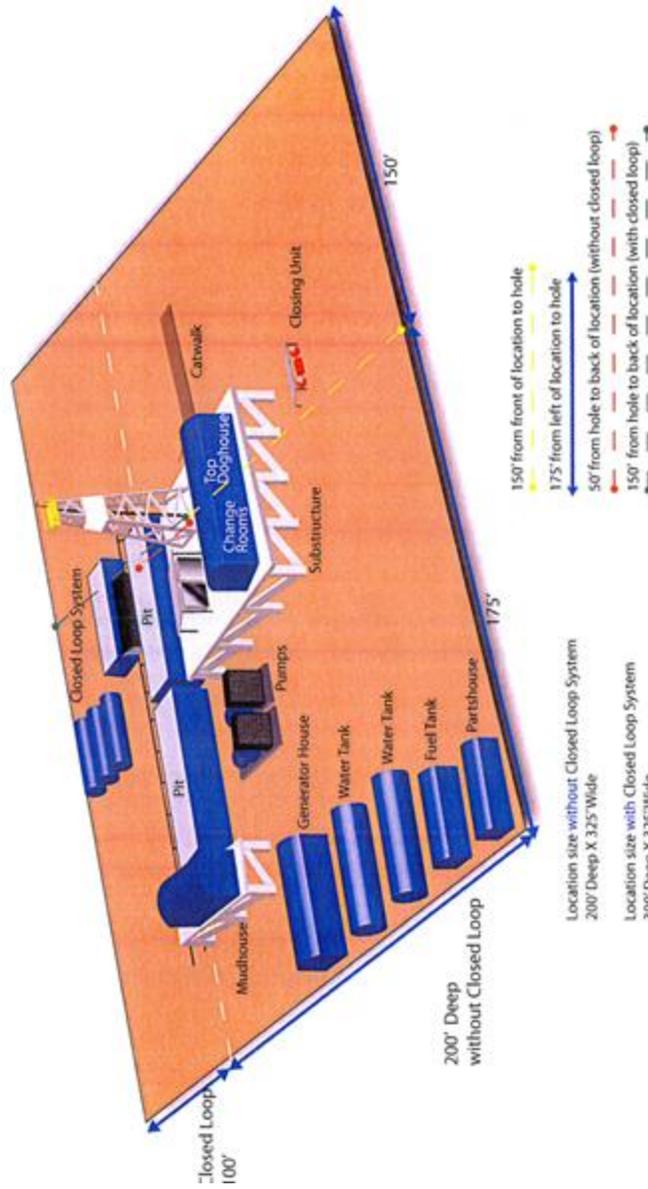
1. BEARDS OR CONTACT LENSES NOT ALLOWED
2. HARD HATS REQUIRED
3. SMOKING IN DESIGNATED AREAS ONLY
4. BE WIND CONSCIOUS AT ALL TIMES
5. CHECK WITH RILEY PERMIAN OPERATING COMPANY MAN AT OFFICE

RILEY PERMIAN OPERATING COMPANY, LLC
1-405-415-8699



DRILLING LOCATION H2S SAFTY EQUIPMENT
Exhibit # 8

Location Layout



EMERGENCY CONTACT LIST – EDDY COUNTY

Artesia	Cellular	Office
Spence Laird.....	575-703-7382.....	405-420-8415
Steve Forister.....	505-400-4571.....	405-666-0113
Travis Kerr.....	713-823-6933	
Justing Sappington.....	361-550-0494	

Agency Call List (575)

Artesia

State Police.....	746-2703
City Police.....	746-2703
Sheriff’s Office.....	746-9888
Ambulance.....	911
Fire Department.....	746-2701
LEPC (Local Emergency Planning Committee.....)	746-2122
NMOCD.....	748-1283

Carlsbad

State Police.....	885-3137
City Police.....	885-2111
Sheriff’s Office.....	887-7551
Ambulance.....	911
Fire Department.....	885-2111
LEPC (Local Emergency Planning Committee.....)	887-3798
Bureau of Land Management.....	887-6544
New Mexico Emergency Response Commission.....	(505)476-9690
24 Hour.....	(505)827-9126

Emergency Services

- Boots & Coots IWC.....1-800-256-9688 or (281)931-8884
- Cudd pressure Control.....(915)699-0139 or (915)563-3356
- Halliburton.....746-2757
- Par Five.....748-9539

- Flight For Life-Lubbock, TX.....(806)743-9911
- Aerocare-Lubbock, TX.....(806)747-8923
- Med Flight Air Amb-Albuquerque, NM.....(505)842-4433
- Lifeguard Air Med Svc. Albuquerque, NM.....(505)272-3115

Riley Permian Operating Company, LLC
Onshore Order #6
Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S on metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. **The concentrations of H₂S of wells in this area from surface to TD are low enough that a contingency plan is not required.**

II. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H₂S.

1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating head.

2. Protective equipment for essential personnel:

- A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

- A. 3x portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

- A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

8. Well testing:

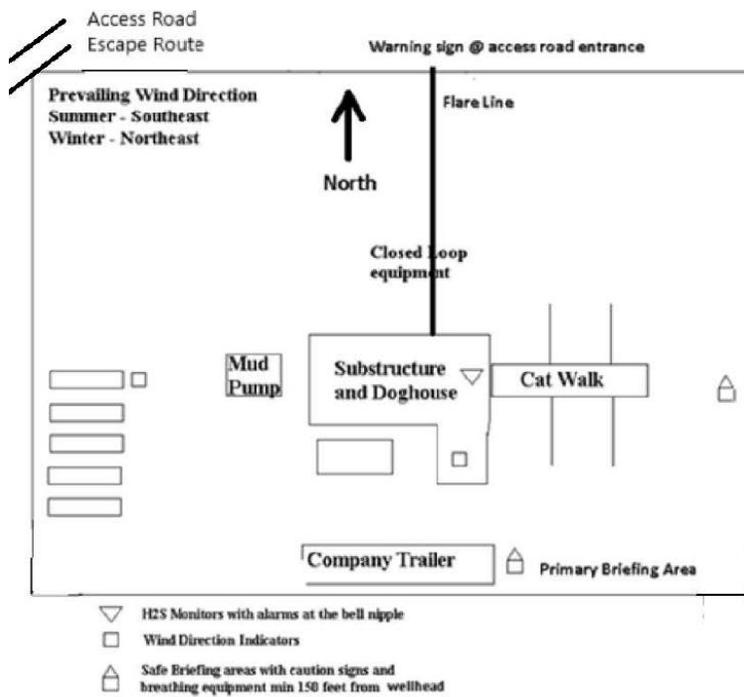
- A. There will be no drill stem testing.

WARNING

**YOU ARE ENTERING AN H2S AREA
AUTHORIZED PERSONNEL ONLY**

1. BEARDS OR CONTACT LENSES NOT ALLOWED
2. HARD HATS REQUIRED
3. SMOKING IN DESIGNATED AREAS ONLY
4. BE WIND CONSCIOUS AT ALL TIMES
5. CHECK WITH RILEY PERMIAN OPERATING COMPANY MAN AT OFFICE

RILEY PERMIAN OPERATING COMPANY, LLC
1-405-415-8699



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: Riley Permian Operating Company, LLC OGRID: 372290 Date: 11 / 11 / 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: _____

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
Uli 11H	30-015-Pending	P-11-18S-26E	497FSL 471 FEL	450	700	4,000
Uli 22H	30-015-Pending	P-11-18S-26E	497FSL 441 FEL	450	700	4,000
Uli 31H	30-015-Pending	P-11-18S-26E	497FSL 411 FEL	450	700	4,000

IV. Central Delivery Point Name: Maude South Facility [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
Uli 11H	30-015-Pending	5/1/2026	5/8/2026	7/15/2026	10/1/2026	10/1/2026
Uli 22H	30-015-Pending	5/9/2026	5/16/2026	7/15/2026	10/1/2026	10/1/2026
Uli 31H	30-015-Pending	5/17/2026	5/23/2026	7/15/2026	10/1/2026	10/1/2026

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.

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. 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 will 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).

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

XIV. Confidentiality: 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.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	Alex Rizzo
Title:	Senior Regulatory Specialist
E-mail Address:	Alexrizzo@rileypermian.com
Date:	2/10/2026
Phone:	918-839-2995
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	



Natural Gas Management Plan – Attachment

VI. Separation equipment will be sized by construction engineering staff based on anticipated daily production to ensure adequate capacity.

VII. Riley Permian Operating Company LLC (“Riley”) will take the following actions to comply with the regulations listed in 19.15.27.8:

- A. Riley will maximize the recovery of natural gas by minimizing waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Spur will ensure that our wells will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.
- B. All drilling operations will be equipped with a rig flare at least 100 feet from the nearest surface hole location. Rig flare will be utilized to combust any natural gas that is brought to surface during normal operations. In the case of emergency, flaring volumes will be reported appropriately.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following completion operations, wells will flow to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. If natural gas does not meet gathering pipeline specifications, Riley will flare for 60 days or until natural gas meets the pipeline specifications. Riley will ensure flare is properly sized and is equipped with an automatic igniter or continuous pilot. Gas samples will be taken twice per week and natural gas will be routed into a gathering system as soon as the pipeline specifications are met.
- D. Natural gas will not be flared with the exception of 19.15.27.8(D)(1-4). If there is no adequate takeaway for the separator gas, wells will be shut-in until that natural gas gathering system is available with exception of emergency or malfunction situations. Volumes will be reported appropriately.
- E. Riley will comply with performance standards pursuant to 19.15.27.8(E)(1-8). All equipment will be designed and sized to handle maximum pressures to minimize waste. Storage tanks constructed after May 25, 2021 will be equipped with an automatic gauging system that reduces venting of natural gas. Flare stacks installed or replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot. Riley will conduct AVO inspections as described in 19.15.27.8(E)(5)(a) with frequencies specified in 19.15.27.8(E)(5)(b) and (c). All emergencies or malfunctions will be resolved as quickly and safely as possible to minimize waste.
- F. The volume of natural gas that is vented or flared as the result of an emergency or malfunction during drilling and/or completion operations will be estimated and reported accordingly. The volume of natural gas that is vented, flared, or beneficially used during production operations will be measured and reported accordingly. Riley will install equipment to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or VRUs associated with a well of facility associated with a well authorized by an APD after May 25, 2021 that has an average daily production of less than 60,000 cubic feet of natural gas.



If metering is not practicable due to circumstances such as low flow rate or low pressure venting or flaring, Riley will estimate the volume of flared or vented natural gas. Measuring equipment will conform to industry standards and will not be equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing equipment.

VIII. For maintenance activities involving production equipment and compression, venting be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production equipment, the associated producing wells will be shut-in to eliminate venting. For maintenance of VRUs, all natural gas normally routed to the VRU will be routed to flare.