Santa Fe Main Office
Phone: (505) 476-3441 Fax: (55) 476-3462
General Information
Phone: (505) 629-6116

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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-015-54386	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name Baffin
1. Type of Well: Oil Well ☒ Gas Well ☐ Other	8. Well Number 071H
2. Name of Operator Riley Permian Operating Company, LLC	9. OGRID Number 372290
3. Address of Operator 29 E Reno Ave., Ste. 500, OKC, OK 73104	10. Pool name or Wildcat (51120) Red Lake; Glorieta-Yeso
4. Well Location Unit Letter P : 700 feet from the S line and 890 feet from the E line Section 13 Township 18S Range 26E NMPM Eddy County	
	11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3292' Ground Level

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☒	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:	☐		

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

Riley Permian Operating respectfully request the ability to drill the above mentioned well at a shallower depth but still in the same pool as originally approved.

Please find attached the updated directional plan, casing and cementing plan.

Spud Date: | Rig Release Date:

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

SIGNATURE [signature] TITLE EHSR Manager DATE 9/9/2024

Type or print name Spence Laird E-mail address: spencelaird@rileypermian.com PHONE: 405-543-1411

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Riley Permian Operating Co., LLC

Eddy County, New Mexico (NAD 83)
Baffin (71H)
Baffin 71H

Wellbore #1
Design #1

Anticollision Report

05 September, 2024

MS Directional
Anticollision Report

Company:	Riley Permian Operating Co., LLC	**Local Co-ordinate Reference:**	Well Baffin 71H
Project:	Eddy County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Reference Site:	Baffin (71H)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.15 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Reference Datum

Reference Design #1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 10,000.00usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 9/5/2024

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	8,900.93	Design #1 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Baffin (20H)						
Baffin 20H - Wellbore #1 - Surveys	0.00	0.00	20.05			
Baffin 20H - Wellbore #1 - Surveys	400.00	399.86	22.27	19.92	9.445	ES
Baffin 20H - Wellbore #1 - Surveys	8,900.93	8,676.32	641.18	394.97	2.604	SF
Baffin (Offsets)						
Leavitt 13-3H - Wellbore #1 - Wellbore #1	3,956.34	3,286.83	111.94	75.43	3.065	CC, ES, SF

Offset Design: Baffin (20H) - Baffin 20H - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.525	20.05	0.18	20.05				
100.00	100.00	99.83	99.83	0.14	0.15	0.545	20.46	0.19	20.46	20.17	0.30	68.718	
200.00	200.00	199.84	199.83	0.50	0.43	0.740	21.44	0.28	21.44	20.51	0.93	22.980	
300.00	300.00	299.96	299.95	0.86	0.78	1.615	21.93	0.62	21.94	20.29	1.65	13.337	
400.00	400.00	399.86	399.85	1.22	1.14	3.564	22.23	1.38	22.27	19.92	2.36	9.445	ES
500.00	500.00	499.36	499.33	1.58	1.50	7.031	23.75	2.93	23.94	20.87	3.07	7.789	
600.00	599.99	598.79	598.66	1.93	1.86	9.290	27.30	5.27	27.45	23.67	3.78	7.256	
700.00	699.96	698.29	697.98	2.28	2.21	9.112	32.27	8.38	31.75	27.26	4.49	7.072	
800.00	799.86	797.55	796.92	2.63	2.58	7.794	39.08	12.62	37.32	32.12	5.20	7.180	
900.00	899.67	897.33	896.36	2.99	2.94	4.520	46.19	16.80	42.51	36.59	5.92	7.185	
1,000.00	999.36	995.85	994.37	3.35	3.31	1.369	54.56	22.18	48.67	42.04	6.63	7.340	
1,100.00	1,098.89	1,093.65	1,091.17	3.72	3.68	-0.398	66.11	29.87	57.76	50.41	7.35	7.863	
1,200.00	1,198.24	1,191.64	1,187.63	4.09	4.07	-1.640	80.59	39.23	69.37	61.29	8.07	8.593	
1,300.00	1,297.38	1,290.93	1,285.20	4.47	4.47	-3.036	95.86	49.53	81.13	72.30	8.83	9.185	
1,315.81	1,313.03	1,306.39	1,300.37	4.53	4.54	-3.317	98.28	51.17	83.00	74.04	8.95	9.272	
1,400.00	1,396.36	1,388.01	1,380.37	4.86	4.88	-4.571	111.84	60.08	93.75	84.17	9.58	9.788	
1,500.00	1,495.34	1,483.07	1,472.80	5.25	5.29	-5.037	130.74	71.70	109.72	99.41	10.30	10.651	
1,600.00	1,594.31	1,579.41	1,565.75	5.64	5.73	-4.717	152.56	84.52	128.41	117.36	11.05	11.619	
1,700.00	1,693.29	1,677.14	1,659.82	6.03	6.18	-4.152	175.34	98.08	147.76	135.93	11.83	12.487	
1,800.00	1,792.27	1,774.39	1,753.29	6.43	6.64	-3.621	198.34	111.90	167.46	154.84	12.61	13.276	
1,900.00	1,891.25	1,873.57	1,848.57	6.83	7.12	-3.080	221.94	126.07	187.30	173.88	13.43	13.951	

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

MS Directional

Anticollision Report

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Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.15 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Baffin (20H) - Baffin 20H - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,967.80	1,958.35	1,943.04	1,915.57	7.10	7.45	-2.814	237.68	135.55	200.00	186.00	14.01	14.281	
2,000.00	1,990.24	1,976.39	1,947.86	7.22	7.61	-2.742	244.83	139.80	205.68	191.39	14.28	14.400	
2,100.00	2,089.50	2,074.16	2,042.64	7.61	8.07	-2.370	265.52	152.02	223.47	208.41	15.06	14.834	
2,200.00	2,189.05	2,171.79	2,137.17	7.99	8.53	-1.365	286.44	164.56	242.24	226.41	15.83	15.306	
2,300.00	2,288.80	2,268.94	2,231.16	8.36	9.00	0.103	307.47	177.30	262.06	245.50	16.57	15.820	
2,400.00	2,388.71	2,364.08	2,323.10	8.72	9.46	1.873	328.39	189.97	283.20	265.93	17.27	16.402	
2,500.00	2,488.69	2,449.43	2,404.69	9.07	9.90	4.238	348.77	204.46	307.76	289.92	17.83	17.256	
2,514.39	2,503.08	2,460.63	2,415.24	9.12	9.96	4.656	351.64	206.89	311.74	293.84	17.90	17.414	
2,550.00	2,538.68	2,487.90	2,440.64	9.24	10.11	5.648	358.84	213.69	322.09	304.03	18.06	17.836	
2,600.00	2,588.49	2,528.00	2,477.15	9.43	10.34	6.894	369.96	225.98	337.64	319.33	18.31	18.443	
2,650.00	2,637.88	2,581.64	2,525.09	9.63	10.67	8.588	384.20	245.36	352.96	334.18	18.78	18.792	
2,700.00	2,686.62	2,636.01	2,573.21	9.84	11.02	10.066	396.54	267.42	366.41	347.13	19.28	19.005	
2,750.00	2,734.46	2,683.56	2,613.88	10.07	11.33	11.098	405.95	290.16	378.90	359.20	19.70	19.230	
2,800.00	2,781.18	2,722.36	2,645.67	10.31	11.60	11.396	412.91	311.26	390.93	370.90	20.03	19.516	
2,850.00	2,826.54	2,753.13	2,669.73	10.58	11.83	10.782	419.03	329.44	403.87	383.60	20.27	19.922	
2,900.00	2,870.33	2,794.00	2,699.89	10.87	12.15	10.790	428.32	355.39	418.01	397.34	20.68	20.214	
2,950.00	2,912.33	2,814.86	2,714.55	11.18	12.34	8.709	433.54	369.29	432.51	411.69	20.82	20.772	
3,000.00	2,952.33	2,847.00	2,736.33	11.53	12.63	7.366	442.15	391.30	447.64	426.45	21.20	21.120	
3,050.00	2,990.14	2,883.00	2,759.55	11.91	12.97	6.150	452.57	416.75	463.12	441.43	21.69	21.347	
3,100.00	3,025.58	2,912.03	2,777.35	12.34	13.29	4.051	461.47	437.89	478.68	456.52	22.16	21.598	
3,150.00	3,058.48	2,945.36	2,796.75	12.82	13.65	2.215	472.06	462.83	494.22	471.43	22.79	21.686	
3,200.00	3,088.67	2,979.37	2,815.39	13.35	14.04	0.334	483.27	488.98	509.65	486.13	23.52	21.670	
3,250.00	3,116.01	3,018.00	2,835.26	13.93	14.51	-1.145	496.21	519.46	524.68	500.24	24.45	21.461	
3,264.39	3,123.33	3,028.12	2,840.28	14.10	14.64	-1.687	499.61	527.56	528.90	504.18	24.72	21.399	
3,300.00	3,141.13	3,059.00	2,855.46	14.56	15.04	-2.407	510.07	552.34	539.36	513.83	25.53	21.131	
3,400.00	3,191.13	3,146.00	2,897.01	15.92	16.22	-4.165	539.98	622.67	570.14	542.21	27.93	20.415	
3,464.39	3,223.33	3,195.32	2,919.76	16.85	16.94	-5.781	557.35	662.83	591.06	561.66	29.40	20.102	
3,500.00	3,240.16	3,223.96	2,932.71	17.39	17.36	-6.543	567.64	686.23	602.61	572.33	30.29	19.897	
3,550.00	3,260.44	3,279.05	2,957.07	18.19	18.19	-6.345	587.37	731.52	617.63	585.64	31.99	19.307	
3,600.00	3,276.67	3,369.37	2,992.48	19.03	19.62	-2.828	612.43	810.59	628.44	593.94	34.49	18.220	
3,650.00	3,288.71	3,446.77	3,012.65	19.92	20.91	-0.250	624.29	884.26	634.92	598.33	36.59	17.353	
3,700.00	3,296.47	3,519.10	3,023.07	20.84	22.15	1.942	628.23	955.66	637.68	599.16	38.51	16.558	
3,754.37	3,300.00	3,574.82	3,027.44	21.86	23.11	2.071	628.53	1,011.21	637.69	597.27	40.41	15.779	
3,800.00	3,300.80	3,620.72	3,029.38	22.73	23.93	2.096	627.71	1,057.05	636.53	594.51	42.02	15.148	
3,900.00	3,302.55	3,714.18	3,031.64	24.69	25.63	1.447	625.83	1,150.47	634.55	589.01	45.54	13.933	
4,000.00	3,304.29	3,805.80	3,032.10	26.72	27.36	0.612	624.42	1,242.08	633.81	584.70	49.11	12.907	
4,006.93	3,304.42	3,812.17	3,032.06	26.86	27.48	0.556	624.33	1,248.44	633.80	584.45	49.36	12.841	
4,100.00	3,306.04	3,908.08	3,030.89	28.79	29.36	0.841	623.09	1,344.34	634.04	581.25	52.80	12.009	
4,200.00	3,307.79	4,026.87	3,032.99	30.90	31.74	2.732	620.41	1,463.06	632.12	575.36	56.76	11.136	
4,300.00	3,309.54	4,122.90	3,036.27	33.04	33.71	2.336	617.54	1,559.00	628.84	568.21	60.63	10.371	
4,400.00	3,311.29	4,216.00	3,037.85	35.20	35.66	1.641	615.13	1,652.05	626.65	562.17	64.47	9.720	
4,500.00	3,313.04	4,310.28	3,037.57	37.38	37.65	1.063	612.83	1,746.30	625.47	557.19	68.28	9.161	
4,600.00	3,314.79	4,409.76	3,035.27	39.58	39.77	1.009	610.13	1,845.72	624.96	552.91	72.05	8.674	
4,700.00	3,316.54	4,516.24	3,033.40	41.80	42.07	1.676	605.96	1,952.09	623.13	547.26	75.87	8.213	
4,775.98	3,317.86	4,581.12	3,031.91	43.49	43.47	0.528	603.94	2,016.93	622.52	543.88	78.64	7.916	
4,800.00	3,318.28	4,601.52	3,031.33	44.03	43.92	0.152	603.52	2,037.31	622.62	543.11	79.51	7.831	
4,900.00	3,320.03	4,693.02	3,028.60	46.26	45.93	-0.733	602.96	2,128.77	624.36	541.17	83.19	7.505	
5,000.00	3,321.78	4,802.54	3,027.10	48.51	48.35	0.256	602.79	2,238.28	625.81	538.65	87.16	7.180	
5,100.00	3,323.53	4,912.58	3,029.94	50.77	50.80	1.295	602.72	2,348.28	625.48	534.12	91.36	6.846	
5,200.00	3,325.28	5,007.18	3,033.49	53.03	52.91	0.729	602.79	2,442.81	624.73	529.25	95.48	6.543	
5,217.18	3,325.58	5,023.17	3,033.93	53.42	53.27	0.605	602.83	2,458.79	624.71	528.54	96.18	6.496	
5,300.00	3,327.03	5,102.00	3,035.74	55.29	55.04	0.190	603.37	2,537.60	625.09	525.54	99.55	6.279	

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

MS Directional

Anticollision Report

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Reference Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.15 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Baffin (20H) - Baffin 20H - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,400.00	3,328.78	5,198.60	3,037.34	57.57	57.22	-0.162	604.27	2,634.18	626.08	522.47	103.62	6.042	
5,500.00	3,330.53	5,289.54	3,037.71	59.84	59.27	-1.096	605.56	2,725.11	628.07	520.52	107.55	5.840	
5,600.00	3,332.27	5,392.83	3,036.97	62.12	61.61	-0.755	607.04	2,828.38	630.62	519.05	111.57	5.652	
5,700.00	3,334.02	5,498.47	3,036.91	64.41	64.00	-0.173	607.43	2,934.02	631.89	516.26	115.63	5.465	
5,800.00	3,335.77	5,603.22	3,036.19	66.70	66.38	0.317	607.37	3,038.77	633.13	513.52	119.61	5.293	
5,900.00	3,337.52	5,712.70	3,037.53	68.99	68.87	1.292	606.42	3,148.24	632.72	508.98	123.74	5.113	
6,000.00	3,339.27	5,809.89	3,039.28	71.28	71.08	1.004	605.32	3,245.40	631.82	504.04	127.78	4.945	
6,100.00	3,341.02	5,915.30	3,041.39	73.58	73.49	1.563	604.04	3,350.78	630.75	498.84	131.91	4.782	
6,200.00	3,342.77	6,013.21	3,043.35	75.88	75.72	1.349	602.52	3,448.66	629.38	493.42	135.96	4.629	
6,300.00	3,344.52	6,109.64	3,045.32	78.18	77.93	0.980	601.77	3,545.07	628.68	488.64	140.04	4.489	
6,400.00	3,346.26	6,208.08	3,048.76	80.48	80.18	0.813	601.91	3,643.45	628.09	483.78	144.31	4.352	
6,429.30	3,346.78	6,235.49	3,049.62	81.16	80.81	0.616	602.03	3,670.84	628.04	482.51	145.54	4.315	
6,500.00	3,348.01	6,302.60	3,051.20	82.79	82.35	0.244	602.39	3,737.94	628.26	479.79	148.47	4.232	
6,600.00	3,349.76	6,396.71	3,052.27	85.09	84.51	-0.365	602.99	3,832.04	629.24	476.74	152.51	4.126	
6,700.00	3,351.51	6,487.95	3,052.03	87.40	86.61	-1.266	604.11	3,923.27	631.40	475.02	156.38	4.038	
6,800.00	3,353.26	6,590.11	3,050.33	89.71	88.95	-1.042	605.71	4,025.40	634.52	474.23	160.29	3.959	
6,900.00	3,355.01	6,708.84	3,049.32	92.02	91.68	0.884	605.49	4,144.12	635.75	471.41	164.35	3.868	
7,000.00	3,356.76	6,823.42	3,051.39	94.33	94.32	2.388	602.73	4,258.64	633.66	465.23	168.43	3.762	
7,100.00	3,358.51	6,931.15	3,053.56	96.64	96.80	3.197	599.36	4,366.30	630.95	458.55	172.41	3.660	
7,200.00	3,360.25	7,035.08	3,058.24	98.95	99.19	3.612	595.23	4,470.04	626.24	449.64	176.60	3.546	
7,300.00	3,362.00	7,124.08	3,061.11	101.27	101.23	2.468	591.96	4,558.92	622.45	441.79	180.66	3.445	
7,400.00	3,363.75	7,214.34	3,062.19	103.58	103.32	1.448	589.53	4,649.15	620.48	435.96	184.51	3.363	
7,500.00	3,365.50	7,308.65	3,061.76	105.90	105.49	0.849	587.46	4,743.44	619.75	431.56	188.19	3.293	
7,600.00	3,367.25	7,407.40	3,061.75	108.22	107.77	0.718	586.15	4,842.17	619.57	427.59	191.98	3.227	
7,700.00	3,369.00	7,508.56	3,064.62	110.53	110.11	0.838	586.28	4,943.28	619.27	423.01	196.26	3.155	
7,728.02	3,369.49	7,534.76	3,065.55	111.18	110.71	0.642	586.47	4,969.47	619.23	421.76	197.47	3.136	
7,800.00	3,370.75	7,602.11	3,067.22	112.85	112.27	0.150	586.95	5,036.80	619.50	419.02	200.48	3.090	
7,900.00	3,372.50	7,698.52	3,067.91	115.17	114.50	-0.230	587.58	5,133.20	620.70	416.23	204.47	3.036	
8,000.00	3,374.24	7,799.16	3,070.24	117.49	116.83	-0.164	589.09	5,233.80	621.84	413.04	208.79	2.978	
8,100.00	3,375.99	7,903.75	3,072.45	119.81	119.24	0.318	590.53	5,338.35	623.00	409.85	213.16	2.923	
8,200.00	3,377.74	8,002.48	3,076.33	122.13	121.53	0.176	591.92	5,437.00	623.29	405.60	217.69	2.863	
8,300.00	3,379.49	8,097.87	3,078.79	124.45	123.74	-0.310	593.43	5,532.34	624.39	402.40	222.00	2.813	
8,400.00	3,381.24	8,191.48	3,079.76	126.77	125.90	-0.977	594.98	5,625.93	626.31	400.26	226.05	2.771	
8,500.00	3,382.99	8,288.66	3,079.65	129.09	128.15	-1.266	596.86	5,723.10	629.02	398.99	230.03	2.735	
8,600.00	3,384.74	8,395.36	3,081.20	131.41	130.62	-0.571	599.21	5,829.75	631.21	396.75	234.45	2.692	
8,700.00	3,386.49	8,489.28	3,082.67	133.73	132.80	-1.197	601.47	5,923.63	633.52	394.88	238.65	2.655	
8,800.00	3,388.24	8,583.02	3,082.35	136.06	134.97	-1.835	603.75	6,017.34	636.78	394.24	242.54	2.625	
8,900.00	3,389.98	8,675.39	3,080.58	138.38	137.10	-2.608	606.36	6,109.66	641.14	394.96	246.18	2.604	
8,900.93	3,390.00	8,676.32	3,080.56	138.40	137.13	-2.608	606.39	6,110.59	641.18	394.97	246.21	2.604 SF	

MS Directional

Anticollision Report

Company:	Riley Permian Operating Co., LLC	**Local Co-ordinate Reference:**	Well Baffin 71H
Project:	Eddy County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Reference Site:	Baffin (71H)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.15 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Baffin (Offsets) - Leavitt 13-3H - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 200-MWD+HRGM — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	4.20	0.00	0.00	92.020	-43.01	1,219.10	1,219.86				
100.00	100.00	101.85	106.05	0.14	0.17	92.025	-43.10	1,218.84	1,219.62	1,219.31	0.31	3,916.109	
200.00	200.00	207.26	211.46	0.50	0.36	92.040	-43.38	1,218.04	1,218.87	1,218.01	0.86	1,422.077	
300.00	300.00	301.92	306.11	0.86	0.69	92.066	-43.90	1,217.34	1,218.15	1,216.60	1.55	784.995	
400.00	400.00	397.29	401.47	1.22	1.03	92.106	-44.76	1,217.04	1,217.86	1,215.61	2.25	541.487	
500.00	500.00	500.70	504.88	1.58	1.40	92.175	-46.21	1,216.71	1,217.60	1,214.62	2.98	409.002	
600.00	599.99	602.77	606.92	1.93	1.77	92.285	-48.25	1,216.10	1,216.25	1,212.55	3.69	329.172	
700.00	699.96	701.59	705.72	2.28	2.12	92.421	-50.26	1,215.50	1,213.23	1,208.83	4.40	275.738	
800.00	799.86	800.80	804.91	2.63	2.48	92.577	-52.12	1,214.99	1,208.65	1,203.54	5.11	236.563	
900.00	899.67	900.49	904.58	2.99	2.84	92.761	-53.97	1,214.49	1,202.43	1,196.61	5.82	206.525	
1,000.00	999.36	1,001.02	1,005.10	3.35	3.20	92.971	-55.75	1,213.97	1,194.56	1,188.02	6.54	182.661	
1,100.00	1,098.89	1,102.13	1,106.20	3.72	3.56	93.193	-57.13	1,213.34	1,184.93	1,177.67	7.26	163.197	
1,200.00	1,198.24	1,200.12	1,204.18	4.09	3.91	93.427	-58.09	1,212.70	1,173.63	1,165.65	7.97	147.222	
1,300.00	1,297.38	1,296.74	1,300.80	4.47	4.26	93.688	-58.92	1,212.26	1,160.90	1,152.22	8.68	133.748	
1,315.81	1,313.03	1,312.25	1,316.31	4.53	4.31	93.732	-59.04	1,212.21	1,158.75	1,149.96	8.79	131.770	
1,400.00	1,396.36	1,394.86	1,398.91	4.86	4.61	93.970	-59.67	1,211.96	1,147.27	1,137.88	9.39	122.129	
1,500.00	1,495.34	1,493.04	1,497.09	5.25	4.96	94.255	-60.35	1,211.72	1,133.73	1,123.62	10.11	112.154	
1,600.00	1,594.31	1,591.69	1,595.74	5.64	5.32	94.541	-60.90	1,211.54	1,120.25	1,109.42	10.83	103.474	
1,700.00	1,693.29	1,690.87	1,694.92	6.03	5.67	94.824	-61.27	1,211.39	1,106.82	1,095.27	11.55	95.855	
1,800.00	1,792.27	1,791.94	1,795.99	6.43	6.03	95.109	-61.55	1,211.12	1,093.29	1,081.02	12.27	89.084	
1,900.00	1,891.25	1,887.41	1,891.46	6.83	6.37	95.396	-61.72	1,210.77	1,079.69	1,066.71	12.98	83.205	
1,967.80	1,958.35	1,945.44	1,949.49	7.10	6.56	95.578	-61.55	1,211.02	1,070.99	1,057.56	13.43	79.770	
2,000.00	1,990.24	1,973.08	1,977.12	7.22	6.66	95.656	-61.38	1,211.33	1,067.18	1,053.54	13.64	78.243	
2,100.00	2,089.50	2,060.82	2,064.83	7.61	6.95	95.842	-60.43	1,213.06	1,057.77	1,043.47	14.31	73.944	
2,200.00	2,189.05	2,158.41	2,162.39	7.99	7.28	95.953	-59.13	1,215.58	1,051.38	1,036.39	14.99	70.129	
2,300.00	2,288.80	2,259.43	2,263.36	8.36	7.61	96.008	-57.78	1,218.36	1,047.59	1,031.90	15.69	66.778	
2,400.00	2,388.71	2,372.29	2,376.19	8.72	7.99	95.992	-56.09	1,220.60	1,045.42	1,029.00	16.42	63.675	
2,500.00	2,488.69	2,477.89	2,481.76	9.07	8.34	95.925	-54.32	1,221.61	1,044.63	1,027.51	17.12	61.009	
2,514.39	2,503.08	2,492.23	2,496.10	9.12	8.39	95.913	-54.09	1,221.73	1,044.70	1,027.48	17.22	60.665	
2,538.81	2,527.50	2,516.56	2,520.43	9.20	8.47	95.893	-53.72	1,221.94	1,044.45	1,027.07	17.39	60.066	
2,550.00	2,538.68	2,527.71	2,531.58	9.24	8.51	95.886	-53.55	1,222.03	1,044.06	1,026.60	17.46	59.780	
2,600.00	2,588.49	2,577.39	2,581.25	9.43	8.68	95.868	-52.83	1,222.45	1,040.20	1,022.39	17.81	58.393	
2,650.00	2,637.88	2,626.58	2,630.44	9.63	8.84	95.872	-52.16	1,222.86	1,032.90	1,014.73	18.17	56.856	
2,700.00	2,686.62	2,674.93	2,678.78	9.84	9.01	95.895	-51.49	1,223.29	1,022.20	1,003.68	18.52	55.191	
2,750.00	2,734.46	2,722.44	2,726.28	10.07	9.17	95.937	-50.80	1,223.74	1,008.17	989.29	18.87	53.416	
2,800.00	2,781.18	2,768.87	2,772.70	10.31	9.33	95.998	-50.10	1,224.21	990.86	971.64	19.22	51.546	
2,850.00	2,826.54	2,814.08	2,817.91	10.58	9.48	96.081	-49.38	1,224.68	970.36	950.80	19.57	49.592	
2,900.00	2,870.33	2,857.93	2,861.75	10.87	9.63	96.190	-48.70	1,225.15	946.77	926.87	19.90	47.567	
2,950.00	2,912.33	4,411.29	3,756.09	11.18	23.36	-177.943	-321.79	297.58	923.50	905.98	17.52	52.709	
3,000.00	2,952.33	4,391.28	3,756.49	11.53	23.00	-176.424	-321.92	317.58	887.70	869.90	17.80	49.872	
3,050.00	2,990.14	3,744.00	3,607.65	11.91	13.75	113.709	-180.21	905.36	847.61	829.99	17.62	48.097	
3,100.00	3,025.58	3,736.31	3,603.54	12.34	13.68	114.675	-177.57	911.30	799.75	781.95	17.81	44.911	
3,150.00	3,058.48	3,725.20	3,597.61	12.82	13.58	115.615	-173.75	919.88	752.41	734.42	17.99	41.835	
3,200.00	3,088.67	3,710.90	3,589.99	13.35	13.45	116.533	-168.83	930.93	705.77	687.61	18.16	38.868	
3,250.00	3,116.01	3,692.07	3,579.96	13.93	13.29	117.303	-162.30	945.47	660.03	641.69	18.34	35.987	
3,264.39	3,123.33	3,686.07	3,576.77	14.10	13.24	117.512	-160.20	950.10	647.05	628.66	18.39	35.185	
3,300.00	3,141.13	3,671.16	3,568.85	14.56	13.12	118.063	-154.96	961.59	615.07	596.53	18.54	33.177	
3,400.00	3,191.13	3,578.09	3,515.99	15.92	12.44	115.256	-123.11	1,031.14	524.99	505.39	19.61	26.775	
3,464.39	3,223.33	3,545.51	3,494.87	16.85	12.25	116.019	-113.17	1,053.87	465.67	445.35	20.32	22.920	
3,500.00	3,240.16	3,529.15	3,483.70	17.39	12.15	116.777	-108.54	1,064.88	432.97	412.20	20.77	20.848	
3,550.00	3,260.44	3,504.68	3,466.44	18.19	12.02	118.076	-102.02	1,080.96	387.89	366.41	21.47	18.063	
3,600.00	3,276.67	3,476.98	3,446.15	19.03	11.88	119.592	-95.21	1,098.54	343.98	321.66	22.32	15.410	

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

MS Directional
Anticollision Report

Company:	Riley Permian Operating Co., LLC	**Local Co-ordinate Reference:**	Well Baffin 71H
Project:	Eddy County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Reference Site:	Baffin (71H)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.15 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Baffin (Offsets) - Leavitt 13-3H - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.00 usft

Survey Program: 200-MWD+HRGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,650.00	3,288.71	3,447.85	3,424.09	19.92	11.75	121.538	-88.31	1,116.26	301.39	278.06	23.33	12.920	
3,700.00	3,296.47	3,417.10	3,399.95	20.84	11.61	124.108	-81.58	1,134.08	260.50	235.93	24.56	10.604	
3,754.37	3,300.00	3,379.03	3,368.70	21.86	11.46	127.590	-73.87	1,154.40	218.10	191.78	26.32	8.287	
3,800.00	3,300.80	3,350.44	3,344.09	22.73	11.35	132.515	-68.65	1,167.96	184.19	155.94	28.25	6.520	
3,900.00	3,302.55	3,304.96	3,303.17	24.69	11.19	156.069	-61.20	1,186.30	124.06	89.66	34.40	3.606	
3,956.34	3,303.53	3,286.83	3,286.33	25.84	11.12	179.921	-58.49	1,192.47	111.94	75.43	36.52	3.065	CC, ES, SF
4,000.00	3,304.29	3,274.82	3,275.07	26.72	11.08	-159.954	-56.77	1,196.25	119.48	84.28	35.21	3.394	
4,100.00	3,306.04	3,252.97	3,254.35	28.79	11.00	-128.419	-53.87	1,202.56	177.92	148.64	29.28	6.077	
4,200.00	3,307.79	3,241.00	3,242.89	30.90	10.96	-114.359	-52.45	1,205.70	260.93	234.75	26.18	9.968	
4,300.00	3,309.54	3,222.79	3,225.30	33.04	10.90	-107.411	-50.54	1,210.02	351.78	327.26	24.52	14.347	
4,400.00	3,311.29	3,210.00	3,212.85	35.20	10.85	-103.414	-49.41	1,212.70	446.07	422.32	23.75	18.784	
4,500.00	3,313.04	3,210.00	3,212.85	37.38	10.85	-100.905	-49.41	1,212.70	542.14	518.61	23.53	23.042	
4,600.00	3,314.79	3,196.06	3,199.20	39.58	10.80	-99.120	-48.38	1,215.29	639.07	615.89	23.18	27.566	
4,700.00	3,316.54	3,189.90	3,193.13	41.80	10.78	-97.841	-47.98	1,216.31	736.74	713.69	23.05	31.962	
4,800.00	3,318.28	3,178.00	3,181.38	44.03	10.74	-96.856	-47.34	1,218.09	834.94	812.06	22.88	36.485	
4,900.00	3,320.03	3,178.00	3,181.38	46.26	10.74	-96.106	-47.34	1,218.09	933.33	910.43	22.90	40.760	
5,000.00	3,321.78	3,178.00	3,181.38	48.51	10.74	-95.503	-47.34	1,218.09	1,032.03	1,009.11	22.92	45.031	
5,100.00	3,323.53	3,178.00	3,181.38	50.77	10.74	-95.006	-47.34	1,218.09	1,130.95	1,108.01	22.94	49.296	
5,200.00	3,325.28	3,166.43	3,169.93	53.03	10.70	-94.572	-46.83	1,219.60	1,229.91	1,207.06	22.85	53.814	
5,300.00	3,327.03	3,162.59	3,166.11	55.29	10.68	-94.216	-46.68	1,220.07	1,329.04	1,306.19	22.85	58.155	
5,400.00	3,328.78	3,159.08	3,162.63	57.57	10.67	-93.909	-46.56	1,220.48	1,428.27	1,405.41	22.86	62.482	
5,500.00	3,330.53	3,146.00	3,149.63	59.84	10.63	-93.635	-46.16	1,221.86	1,527.67	1,504.89	22.78	67.048	
5,600.00	3,332.27	3,146.00	3,149.63	62.12	10.63	-93.406	-46.16	1,221.86	1,627.00	1,604.17	22.83	71.270	
5,700.00	3,334.02	3,146.00	3,149.63	64.41	10.63	-93.203	-46.16	1,221.86	1,726.40	1,703.53	22.87	75.478	
5,800.00	3,335.77	3,146.00	3,149.63	66.70	10.63	-93.022	-46.16	1,221.86	1,825.87	1,802.95	22.92	79.671	
5,900.00	3,337.52	3,146.00	3,149.63	68.99	10.63	-92.861	-46.16	1,221.86	1,925.39	1,902.43	22.96	83.848	
6,000.00	3,339.27	3,146.00	3,149.63	71.28	10.63	-92.715	-46.16	1,221.86	2,024.96	2,001.95	23.01	88.009	
6,100.00	3,341.02	3,146.00	3,149.63	73.58	10.63	-92.583	-46.16	1,221.86	2,124.57	2,101.51	23.05	92.152	
6,200.00	3,342.77	3,146.00	3,149.63	75.88	10.63	-92.463	-46.16	1,221.86	2,224.21	2,201.11	23.10	96.278	
6,300.00	3,344.52	3,146.00	3,149.63	78.18	10.63	-92.353	-46.16	1,221.86	2,323.89	2,300.74	23.15	100.384	
6,400.00	3,346.26	3,146.00	3,149.63	80.48	10.63	-92.253	-46.16	1,221.86	2,423.59	2,400.39	23.20	104.472	
6,500.00	3,348.01	3,133.12	3,136.81	82.79	10.58	-92.155	-45.88	1,223.03	2,523.19	2,500.03	23.16	108.956	
6,600.00	3,349.76	3,131.49	3,135.19	85.09	10.58	-92.069	-45.85	1,223.16	2,622.90	2,599.70	23.20	113.065	
6,700.00	3,351.51	3,129.95	3,133.65	87.40	10.57	-91.990	-45.83	1,223.28	2,722.63	2,699.39	23.24	117.153	
6,800.00	3,353.26	3,128.50	3,132.20	89.71	10.56	-91.916	-45.81	1,223.40	2,822.38	2,799.10	23.28	121.220	
6,900.00	3,355.01	3,127.11	3,130.82	92.02	10.56	-91.847	-45.79	1,223.51	2,922.14	2,898.81	23.33	125.264	
7,000.00	3,356.76	3,115.00	3,118.74	94.33	10.52	-91.782	-45.70	1,224.35	3,022.00	2,998.70	23.30	129.674	
7,100.00	3,358.51	3,115.00	3,118.74	96.64	10.52	-91.722	-45.70	1,224.35	3,121.77	3,098.41	23.36	133.633	
7,200.00	3,360.25	3,115.00	3,118.74	98.95	10.52	-91.666	-45.70	1,224.35	3,221.55	3,198.13	23.42	137.569	
7,300.00	3,362.00	3,115.00	3,118.74	101.27	10.52	-91.614	-45.70	1,224.35	3,321.34	3,297.87	23.48	141.483	
7,400.00	3,363.75	3,115.00	3,118.74	103.58	10.52	-91.564	-45.70	1,224.35	3,421.15	3,397.62	23.53	145.373	
7,500.00	3,365.50	3,115.00	3,118.74	105.90	10.52	-91.517	-45.70	1,224.35	3,520.97	3,497.38	23.59	149.239	
7,600.00	3,367.25	3,115.00	3,118.74	108.22	10.52	-91.473	-45.70	1,224.35	3,620.80	3,597.14	23.65	153.082	
7,700.00	3,369.00	3,115.00	3,118.74	110.53	10.52	-91.431	-45.70	1,224.35	3,720.63	3,696.92	23.71	156.901	
7,800.00	3,370.75	3,115.00	3,118.74	112.85	10.52	-91.392	-45.70	1,224.35	3,820.48	3,796.70	23.77	160.695	
7,900.00	3,372.50	3,115.00	3,118.74	115.17	10.52	-91.354	-45.70	1,224.35	3,920.33	3,896.50	23.84	164.465	
8,000.00	3,374.24	3,115.00	3,118.74	117.49	10.52	-91.319	-45.70	1,224.35	4,020.19	3,996.29	23.90	168.210	
8,100.00	3,375.99	3,115.00	3,118.74	119.81	10.52	-91.285	-45.70	1,224.35	4,120.06	4,096.10	23.96	171.931	
8,200.00	3,377.74	3,115.00	3,118.74	122.13	10.52	-91.252	-45.70	1,224.35	4,219.93	4,195.91	24.03	175.626	
8,300.00	3,379.49	3,115.00	3,118.74	124.45	10.52	-91.221	-45.70	1,224.35	4,319.81	4,295.72	24.09	179.296	
8,400.00	3,381.24	3,115.00	3,118.74	126.77	10.52	-91.192	-45.70	1,224.35	4,419.70	4,395.54	24.16	182.941	
8,500.00	3,382.99	3,115.00	3,118.74	129.09	10.52	-91.164	-45.70	1,224.35	4,519.59	4,495.36	24.23	186.561	

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

MS Directional

Anticollision Report

Company:	Riley Permian Operating Co., LLC	**Local Co-ordinate Reference:**	Well Baffin 71H
Project:	Eddy County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Reference Site:	Baffin (71H)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.15 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Baffin (Offsets) - Leavitt 13-3H - Wellbore #1 - Wellbore #1

Offset Site Error: 0.00 usft

Survey Program: 200-MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

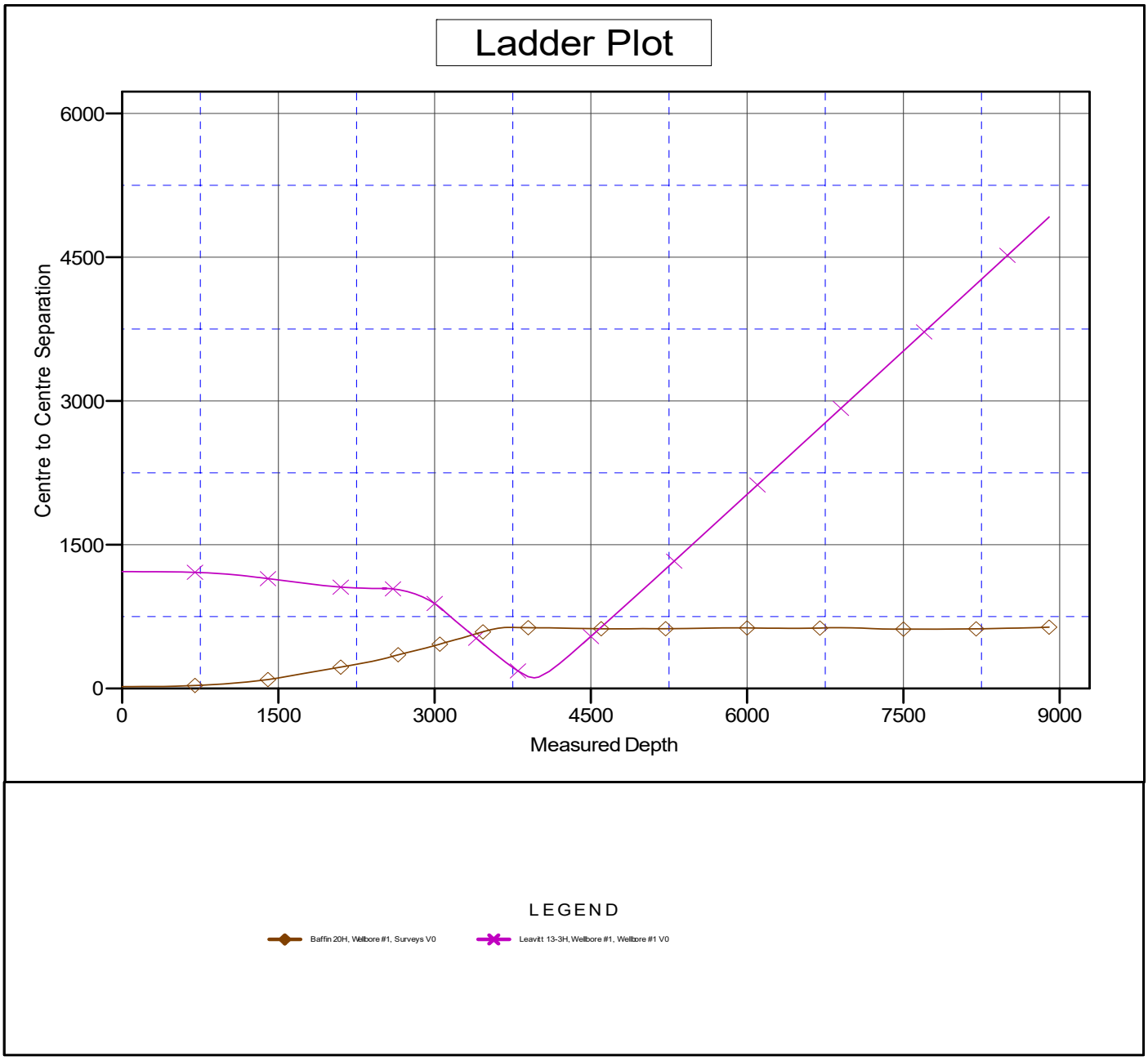
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.00	3,384.74	3,115.00	3,118.74	131.41	10.52	-91.137	-45.70	1,224.35	4,619.48	4,595.19	24.29	190.155	
8,700.00	3,386.49	3,115.00	3,118.74	133.73	10.52	-91.111	-45.70	1,224.35	4,719.38	4,695.02	24.36	193.723	
8,800.00	3,388.24	3,115.00	3,118.74	136.06	10.52	-91.086	-45.70	1,224.35	4,819.29	4,794.86	24.43	197.266	
8,900.00	3,389.98	3,115.00	3,118.74	138.38	10.52	-91.063	-45.70	1,224.35	4,919.19	4,894.69	24.50	200.783	
8,900.93	3,390.00	3,115.00	3,118.74	138.40	10.52	-91.063	-45.70	1,224.35	4,920.12	4,895.62	24.50	200.816	

MS Directional
Anticollision Report

Company:	Riley Permian Operating Co., LLC	**Local Co-ordinate Reference:**	Well Baffin 71H
Project:	Eddy County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Reference Site:	Baffin (71H)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.15 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to WELL @ 3312.00usft (Akita 523)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Baffin 71H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.002°

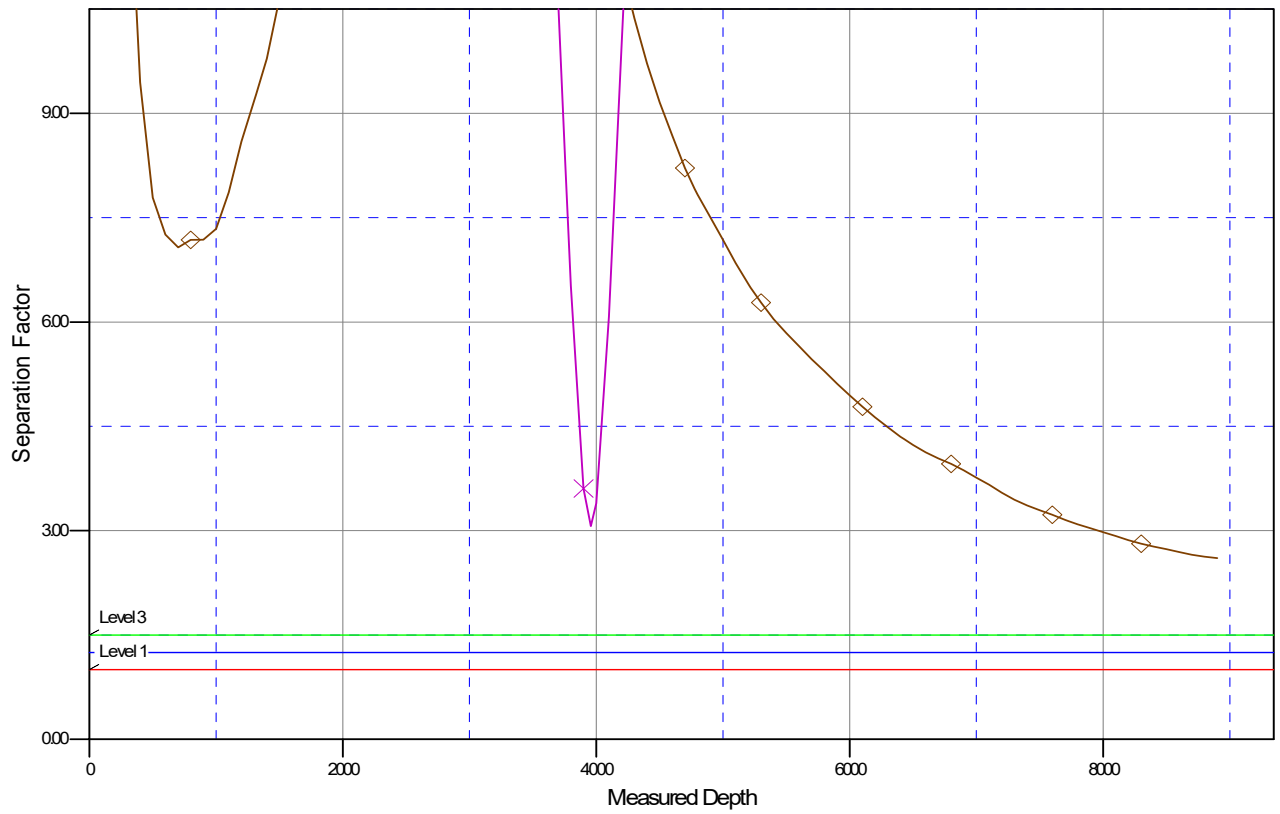


MS Directional
Anticollision Report

Company:	Riley Permian Operating Co., LLC	**Local Co-ordinate Reference:**	Well Baffin 71H
Project:	Eddy County, New Mexico (NAD 83)	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Reference Site:	Baffin (71H)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM 5000.15 Conroe DB
Reference Design:	Design #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to WELL @ 3312.00usft (Akita 523)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334
Coordinates are relative to: Baffin 71H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.002°

Separation Factor Plot



LEGEND

Baffin 20H, Wellbore #1, Surveys V0
Leavitt 13-3H, Wellbore #1, Wellbore #1 V0

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

Company: Riley Permian Operating Co., LLC
Well: Baffin 71H
County: Eddy County, New Mexico (NAD 83)
Rig: Akita 523
Wellbore: Wellbore #1
Design: Design #1
Date: 12:48, September 05 2024

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

To convert a Magnetic Direction to a Grid Direction, Add 6.681°
To convert a Magnetic Direction to a True Direction, Add 6.683° East
To convert a True Direction to a Grid Direction, Subtract 0.002°

T G M

Azimuths to Grid North
True North: 0.00°
Magnetic North: 6.68°

Magnetic Field
Strength: 47352.1nT
Dip Angle: 60.30°
Date: 12/31/2024
Model: HDGM2024

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	8900.93	Design #1 (Wellbore #1)	MWD+HRGM

SECTION DETAILS

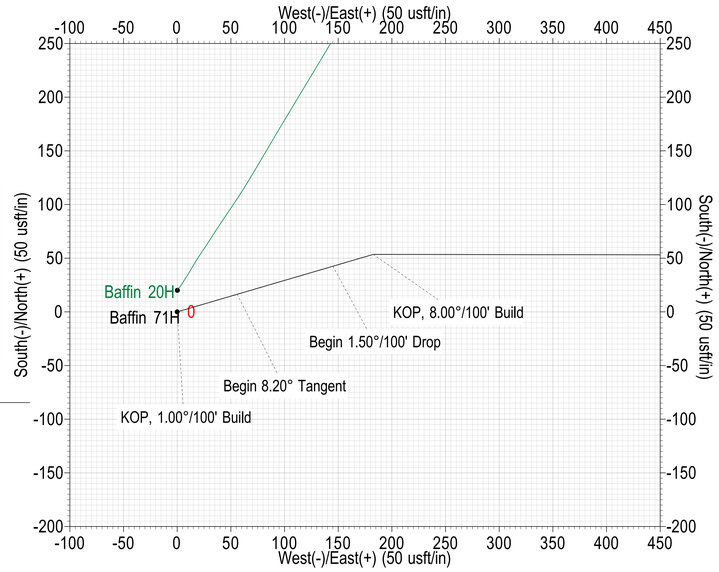
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.00	KOP, 1.00°/100' Build
1315.81	8.20	73.67	1313.03	16.39	55.92	1.00	73.665	55.90	Begin 8.20° Tangent
1967.80	8.20	73.67	1958.35	42.54	145.14	0.00	0.000	145.09	Begin 1.50°/100' Drop
2514.39	0.00	0.00	2503.08	53.52	182.61	1.50	180.000	182.54	KOP, 8.00°/100' Build
3264.39	60.00	90.08	3123.33	53.02	540.71	8.00	90.080	540.63	Hold 60.00° Inc, 90.08° Azm
3464.39	60.00	90.08	3223.33	52.78	713.91	0.00	0.000	713.84	Begin 10.00°/100' Build
3754.37	89.00	90.08	3300.00	52.40	990.37	10.00	-0.004	990.30	Begin 89.00° Lateral
8900.93	89.00	90.08	3390.00	45.40	6136.14	0.00	0.000	6136.07	PBHL

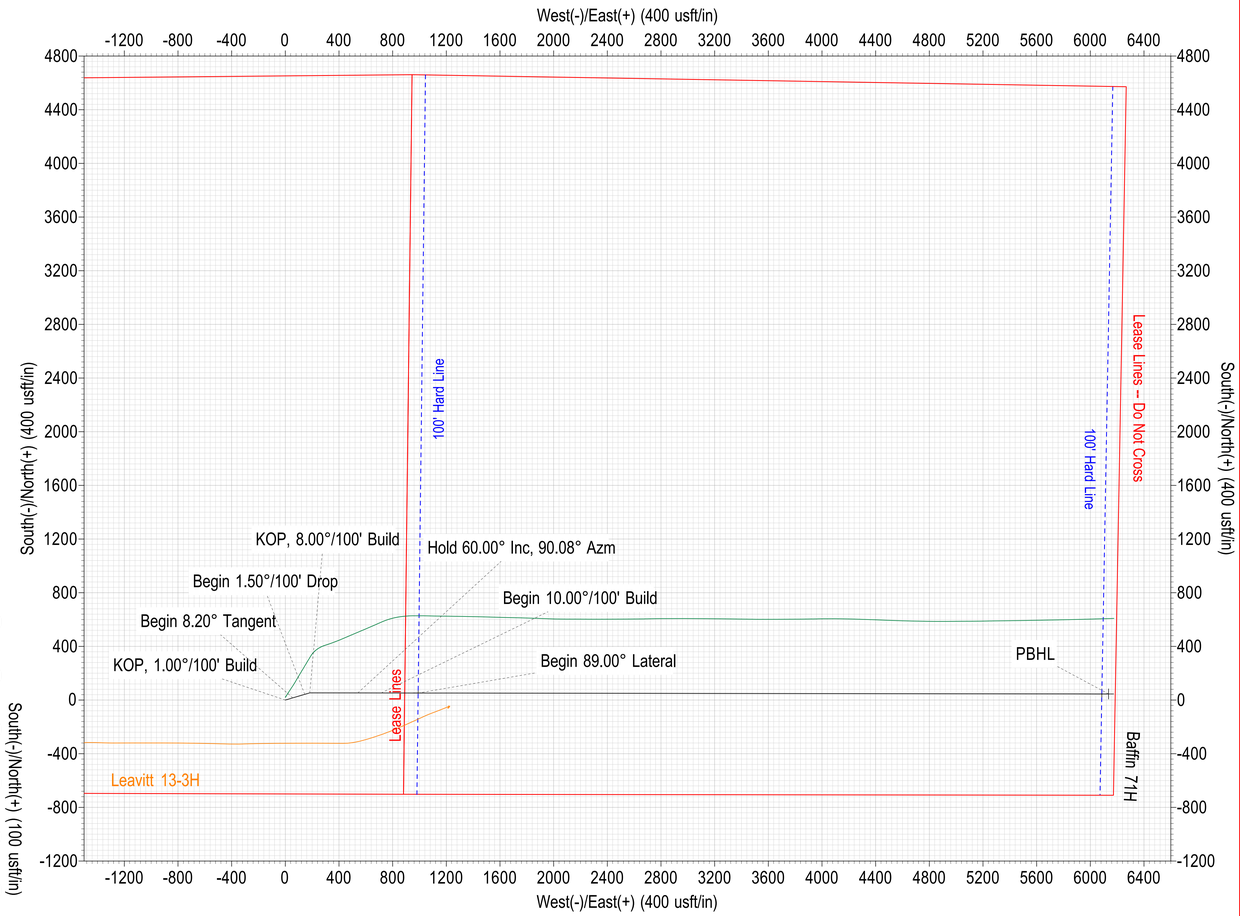
WELL DETAILS: Baffin 71H

+N/-S	+E/-W	GL @ 3292.00 Northing	WELL @ 3312.00usft (Akita 523) Easting	Latitude	Longitude
0.00	0.00	633846.98	542502.89	32.742483	-104.329543

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP_Baffin 71H	3300.00	52.40	990.37	633899.38	543493.26	32.742627	-104.326322
LTP_Baffin 71H	3389.13	45.46	6086.15	633892.44	548589.04	32.742606	-104.309748
PBHL_Baffin 71H	3390.00	45.40	6136.14	633892.38	548639.03	32.742605	-104.309586





Riley Permian Operating Co., LLC
Baffin 71H
Akita 523

Riley Permian Operating Co., LLC

Eddy County, New Mexico (NAD 83)
Baffin (71H)
Baffin 71H

Wellbore #1

Plan: Design #1

Standard Planning Report

05 September, 2024

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	**Local Co-ordinate Reference:**	Well Baffin 71H
Company:	Riley Permian Operating Co., LLC	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site:	Baffin (71H)	**North Reference:**	Grid
Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project Eddy County, New Mexico (NAD 83)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Baffin (71H)

Site Position:		**Northing:**	633,846.98 usft	**Latitude:**	32.742483
From:	Lat/Long	**Easting:**	542,502.89 usft	**Longitude:**	-104.329543
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Baffin 71H

Well Position	**+N/-S**	0.00 usft	**Northing:**	633,846.98 usft	**Latitude:**	32.742483
	+E/-W	0.00 usft	**Easting:**	542,502.89 usft	**Longitude:**	-104.329543
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,292.00 usft
Grid Convergence:		0.002 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	12/31/2024	6.683	60.300	47,352.100

Design Design #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	90.08

Plan Survey Tool Program **Date** 9/5/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	8,900.93	Design #1 (Wellbore #1)	MWD+HRGM	
				OWSG MWD + HRGM	

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	**Local Co-ordinate Reference:**	Well Baffin 71H
Company:	Riley Permian Operating Co., LLC	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site:	Baffin (71H)	**North Reference:**	Grid
Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,315.81	8.20	73.67	1,313.03	16.39	55.92	1.01	1.01	0.00	73.665	
1,967.80	8.20	73.67	1,958.35	42.54	145.14	0.00	0.00	0.00	0.000	
2,514.39	0.00	0.00	2,503.08	53.52	182.61	1.50	-1.50	0.00	180.000	
3,264.39	60.00	90.08	3,123.33	53.02	540.71	8.00	8.00	0.00	90.080	
3,464.39	60.00	90.08	3,223.33	52.78	713.91	0.00	0.00	0.00	0.000	
3,754.37	89.00	90.08	3,300.00	52.40	990.37	10.00	10.00	0.00	-0.004	
8,900.93	89.00	90.08	3,390.00	45.40	6,136.14	0.00	0.00	0.00	0.000	PBHL_Baffin 71H

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	**Local Co-ordinate Reference:**	Well Baffin 71H
Company:	Riley Permian Operating Co., LLC	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site:	Baffin (71H)	**North Reference:**	Grid
Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.00°/100' Build									
600.00	1.01	73.67	599.99	0.25	0.84	0.84	1.01	1.01	0.00
700.00	2.01	73.67	699.96	0.99	3.37	3.36	1.01	1.01	0.00
800.00	3.02	73.67	799.86	2.22	7.57	7.57	1.01	1.01	0.00
900.00	4.02	73.67	899.67	3.95	13.46	13.45	1.01	1.01	0.00
1,000.00	5.03	73.67	999.36	6.16	21.03	21.02	1.01	1.01	0.00
1,100.00	6.03	73.67	1,098.89	8.87	30.27	30.26	1.01	1.01	0.00
1,200.00	7.04	73.67	1,198.24	12.07	41.19	41.17	1.01	1.01	0.00
1,300.00	8.04	73.67	1,297.38	15.76	53.78	53.75	1.01	1.01	0.00
1,315.81	8.20	73.67	1,313.03	16.39	55.92	55.90	1.00	1.00	0.00
Begin 8.20° Tangent									
1,400.00	8.20	73.67	1,396.36	19.77	67.44	67.41	0.00	0.00	0.00
1,500.00	8.20	73.67	1,495.34	23.78	81.13	81.09	0.00	0.00	0.00
1,600.00	8.20	73.67	1,594.31	27.79	94.81	94.77	0.00	0.00	0.00
1,700.00	8.20	73.67	1,693.29	31.80	108.50	108.45	0.00	0.00	0.00
1,800.00	8.20	73.67	1,792.27	35.81	122.18	122.13	0.00	0.00	0.00
1,900.00	8.20	73.67	1,891.25	39.82	135.87	135.81	0.00	0.00	0.00
1,967.80	8.20	73.67	1,958.35	42.54	145.14	145.09	0.00	0.00	0.00
Begin 1.50°/100' Drop									
2,000.00	7.72	73.67	1,990.24	43.79	149.42	149.36	1.50	-1.50	0.00
2,100.00	6.22	73.67	2,089.50	47.20	161.06	160.99	1.50	-1.50	0.00
2,200.00	4.72	73.67	2,189.05	49.88	170.20	170.13	1.50	-1.50	0.00
2,300.00	3.22	73.67	2,288.80	51.83	176.84	176.77	1.50	-1.50	0.00
2,400.00	1.72	73.67	2,388.71	53.04	180.97	180.89	1.50	-1.50	0.00
2,500.00	0.22	73.67	2,488.69	53.51	182.58	182.51	1.50	-1.50	0.00
2,514.39	0.00	0.00	2,503.08	53.52	182.61	182.54	1.50	-1.50	-511.96
KOP, 8.00°/100' Build									
2,550.00	2.85	90.08	2,538.68	53.52	183.50	183.42	8.00	8.00	252.95
2,600.00	6.85	90.08	2,588.49	53.51	187.72	187.65	8.00	8.00	0.00
2,650.00	10.85	90.08	2,637.88	53.50	195.41	195.34	8.00	8.00	0.00
2,700.00	14.85	90.08	2,686.62	53.49	206.53	206.45	8.00	8.00	0.00
2,750.00	18.85	90.08	2,734.46	53.47	221.02	220.94	8.00	8.00	0.00
2,800.00	22.85	90.08	2,781.18	53.44	238.81	238.73	8.00	8.00	0.00
2,850.00	26.85	90.08	2,826.54	53.41	259.82	259.74	8.00	8.00	0.00
2,900.00	30.85	90.08	2,870.33	53.38	283.94	283.86	8.00	8.00	0.00
2,950.00	34.85	90.08	2,912.33	53.34	311.05	310.98	8.00	8.00	0.00
3,000.00	38.85	90.08	2,952.33	53.30	341.03	340.96	8.00	8.00	0.00
3,050.00	42.85	90.08	2,990.14	53.25	373.73	373.65	8.00	8.00	0.00
3,100.00	46.85	90.08	3,025.58	53.20	408.98	408.91	8.00	8.00	0.00
3,150.00	50.85	90.08	3,058.48	53.15	446.62	446.55	8.00	8.00	0.00
3,200.00	54.85	90.08	3,088.67	53.10	486.47	486.39	8.00	8.00	0.00
3,250.00	58.85	90.08	3,116.01	53.04	528.32	528.25	8.00	8.00	0.00
3,264.39	60.00	90.08	3,123.33	53.02	540.71	540.63	8.00	8.00	0.00
Hold 60.00° Inc, 90.08° Azm									
3,300.00	60.00	90.08	3,141.13	52.98	571.55	571.47	0.00	0.00	0.00
3,400.00	60.00	90.08	3,191.13	52.86	658.15	658.08	0.00	0.00	0.00
3,464.39	60.00	90.08	3,223.33	52.78	713.91	713.84	0.00	0.00	0.00

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	**Local Co-ordinate Reference:**	Well Baffin 71H
Company:	Riley Permian Operating Co., LLC	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site:	Baffin (71H)	**North Reference:**	Grid
Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Begin 10.00°/100' Build									
3,500.00	63.56	90.08	3,240.16	52.73	745.29	745.21	10.00	10.00	0.00
3,550.00	68.56	90.08	3,260.44	52.67	790.97	790.90	10.00	10.00	0.00
3,600.00	73.56	90.08	3,276.67	52.61	838.25	838.18	10.00	10.00	0.00
3,650.00	78.56	90.08	3,288.71	52.54	886.76	886.69	10.00	10.00	0.00
3,700.00	83.56	90.08	3,296.47	52.47	936.14	936.06	10.00	10.00	0.00
3,754.37	89.00	90.08	3,300.00	52.40	990.37	990.30	10.00	10.00	0.00
Begin 89.00° Lateral									
3,800.00	89.00	90.08	3,300.80	52.34	1,036.00	1,035.92	0.00	0.00	0.00
3,900.00	89.00	90.08	3,302.55	52.20	1,135.98	1,135.91	0.00	0.00	0.00
4,000.00	89.00	90.08	3,304.29	52.06	1,235.97	1,235.89	0.00	0.00	0.00
4,100.00	89.00	90.08	3,306.04	51.93	1,335.95	1,335.88	0.00	0.00	0.00
4,200.00	89.00	90.08	3,307.79	51.79	1,435.94	1,435.86	0.00	0.00	0.00
4,300.00	89.00	90.08	3,309.54	51.66	1,535.92	1,535.85	0.00	0.00	0.00
4,400.00	89.00	90.08	3,311.29	51.52	1,635.90	1,635.83	0.00	0.00	0.00
4,500.00	89.00	90.08	3,313.04	51.38	1,735.89	1,735.82	0.00	0.00	0.00
4,600.00	89.00	90.08	3,314.79	51.25	1,835.87	1,835.80	0.00	0.00	0.00
4,700.00	89.00	90.08	3,316.54	51.11	1,935.86	1,935.78	0.00	0.00	0.00
4,800.00	89.00	90.08	3,318.28	50.98	2,035.84	2,035.77	0.00	0.00	0.00
4,900.00	89.00	90.08	3,320.03	50.84	2,135.83	2,135.75	0.00	0.00	0.00
5,000.00	89.00	90.08	3,321.78	50.70	2,235.81	2,235.74	0.00	0.00	0.00
5,100.00	89.00	90.08	3,323.53	50.57	2,335.80	2,335.72	0.00	0.00	0.00
5,200.00	89.00	90.08	3,325.28	50.43	2,435.78	2,435.71	0.00	0.00	0.00
5,300.00	89.00	90.08	3,327.03	50.30	2,535.77	2,535.69	0.00	0.00	0.00
5,400.00	89.00	90.08	3,328.78	50.16	2,635.75	2,635.68	0.00	0.00	0.00
5,500.00	89.00	90.08	3,330.53	50.02	2,735.74	2,735.66	0.00	0.00	0.00
5,600.00	89.00	90.08	3,332.27	49.89	2,835.72	2,835.65	0.00	0.00	0.00
5,700.00	89.00	90.08	3,334.02	49.75	2,935.70	2,935.63	0.00	0.00	0.00
5,800.00	89.00	90.08	3,335.77	49.62	3,035.69	3,035.62	0.00	0.00	0.00
5,900.00	89.00	90.08	3,337.52	49.48	3,135.67	3,135.60	0.00	0.00	0.00
6,000.00	89.00	90.08	3,339.27	49.34	3,235.66	3,235.59	0.00	0.00	0.00
6,100.00	89.00	90.08	3,341.02	49.21	3,335.64	3,335.57	0.00	0.00	0.00
6,200.00	89.00	90.08	3,342.77	49.07	3,435.63	3,435.56	0.00	0.00	0.00
6,300.00	89.00	90.08	3,344.52	48.94	3,535.61	3,535.54	0.00	0.00	0.00
6,400.00	89.00	90.08	3,346.26	48.80	3,635.60	3,635.52	0.00	0.00	0.00
6,500.00	89.00	90.08	3,348.01	48.66	3,735.58	3,735.51	0.00	0.00	0.00
6,600.00	89.00	90.08	3,349.76	48.53	3,835.57	3,835.49	0.00	0.00	0.00
6,700.00	89.00	90.08	3,351.51	48.39	3,935.55	3,935.48	0.00	0.00	0.00
6,800.00	89.00	90.08	3,353.26	48.26	4,035.54	4,035.46	0.00	0.00	0.00
6,900.00	89.00	90.08	3,355.01	48.12	4,135.52	4,135.45	0.00	0.00	0.00
7,000.00	89.00	90.08	3,356.76	47.99	4,235.50	4,235.43	0.00	0.00	0.00
7,100.00	89.00	90.08	3,358.51	47.85	4,335.49	4,335.42	0.00	0.00	0.00
7,200.00	89.00	90.08	3,360.25	47.71	4,435.47	4,435.40	0.00	0.00	0.00
7,300.00	89.00	90.08	3,362.00	47.58	4,535.46	4,535.39	0.00	0.00	0.00
7,400.00	89.00	90.08	3,363.75	47.44	4,635.44	4,635.37	0.00	0.00	0.00
7,500.00	89.00	90.08	3,365.50	47.31	4,735.43	4,735.36	0.00	0.00	0.00
7,600.00	89.00	90.08	3,367.25	47.17	4,835.41	4,835.34	0.00	0.00	0.00
7,700.00	89.00	90.08	3,369.00	47.03	4,935.40	4,935.33	0.00	0.00	0.00
7,800.00	89.00	90.08	3,370.75	46.90	5,035.38	5,035.31	0.00	0.00	0.00
7,900.00	89.00	90.08	3,372.50	46.76	5,135.37	5,135.30	0.00	0.00	0.00
8,000.00	89.00	90.08	3,374.24	46.63	5,235.35	5,235.28	0.00	0.00	0.00
8,100.00	89.00	90.08	3,375.99	46.49	5,335.34	5,335.26	0.00	0.00	0.00
8,200.00	89.00	90.08	3,377.74	46.35	5,435.32	5,435.25	0.00	0.00	0.00
8,300.00	89.00	90.08	3,379.49	46.22	5,535.30	5,535.23	0.00	0.00	0.00

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	**Local Co-ordinate Reference:**	Well Baffin 71H
Company:	Riley Permian Operating Co., LLC	**TVD Reference:**	WELL @ 3312.00usft (Akita 523)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3312.00usft (Akita 523)
Site:	Baffin (71H)	**North Reference:**	Grid
Well:	Baffin 71H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.00	89.00	90.08	3,381.24	46.08	5,635.29	5,635.22	0.00	0.00	0.00
8,500.00	89.00	90.08	3,382.99	45.95	5,735.27	5,735.20	0.00	0.00	0.00
8,600.00	89.00	90.08	3,384.74	45.81	5,835.26	5,835.19	0.00	0.00	0.00
8,700.00	89.00	90.08	3,386.49	45.67	5,935.24	5,935.17	0.00	0.00	0.00
8,800.00	89.00	90.08	3,388.24	45.54	6,035.23	6,035.16	0.00	0.00	0.00
8,900.93	89.00	90.08	3,390.00	45.40	6,136.14	6,136.07	0.00	0.00	0.00
PBHL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP_Baffin 71H	0.00	0.00	3,300.00	52.40	990.37	633,899.38	543,493.26	32.742627	-104.326322
- plan misses target center by 0.01usft at 3754.37usft MD (3300.00 TVD, 52.40 N, 990.37 E)									
- Point									
LTP_Baffin 71H	0.00	0.00	3,389.13	45.46	6,086.15	633,892.44	548,589.04	32.742606	-104.309749
- plan misses target center by 0.01usft at 8850.93usft MD (3389.13 TVD, 45.47 N, 6086.15 E)									
- Point									
PBHL_Baffin 71H	0.00	0.00	3,390.00	45.40	6,136.14	633,892.38	548,639.04	32.742605	-104.309586
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
500.00	500.00	0.00	0.00	KOP, 1.00°/100' Build
1,315.81	1,313.03	16.39	55.92	Begin 8.20° Tangent
1,967.80	1,958.35	42.54	145.14	Begin 1.50°/100' Drop
2,514.39	2,503.08	53.52	182.61	KOP, 8.00°/100' Build
3,264.39	3,123.33	53.02	540.71	Hold 60.00° Inc, 90.08° Azm
3,464.39	3,223.33	52.78	713.91	Begin 10.00°/100' Build
3,754.37	3,300.00	52.40	990.37	Begin 89.00° Lateral
8,900.93	3,390.00	45.40	6,136.14	PBHL

Updated Drilling Plan for Baffin 71H API: 30-015-54386 700’ FSL & 890’ FEL of P Sec 13-18S-26E

Cement Design							
Interval	**Slurry**	**Weight**	**Yeild ft3/sx**	**Volume**	**Top**	**Excess**	**Sx**
Surface	**Lead**	**12.8**	**1.47**	**98**	**0**	**100%**	**375**
	Tail	**14.8**	**1.33**	**42**	**0**	**100%**	**178**
Intermediate							
Production	**Lead**	**11.5**	**2.28**	**92**	**0**	**35%**	**227**
	Tail	**13.7**	**1.29**	**333**	**0**	**35%**	**1450**

Surface Casing							
Size	**Wt./Ft.**	**Grade**	**Conn**	**Top**	**Bottom**	**Length**	**$/Ft.**
9.625	36	J55	BTC	0'	1,250'	1,250'	$28.00
Casing Details							
ID:	8.921 in			Collapse Rating:	2,020 psi		
Drift:	8.765 in			Burst Rating:	3,520 psi		
Connection OD:	10.625 in			Body Yield:	564 kips		
Capacity:	0.0773113 bbl/ft			Joint Strength:	453 kips		
Notes: All connections in the shoe track should be Thread Locked							

Production Casing							
Size	**Wt./Ft.**	**Grade**	**Conn**	**Top**	**Bottom**	**Length**	**$/Ft.**
7	32	HCL-80	BTC	0'	3,464'	3,464'	$36.00
Casing Details							
ID:	6.094 in			Collapse Rating:	10,400 psi		
Drift:	5.969 in			Burst Rating:	8,460 psi		
Connection OD:	7.875 in			Body Yield:	745 kips		
Capacity:	0.0361 bbl/ft			Joint Stregth:	832 kips		
Size	**Wt./Ft.**	**Grade**	**Conn**	**Top**	**Bottom**	**Length**	**$/Ft.**
5.5	20	HCL-80	BTC	3,464'	8,901'	5,437'	$23.00
Casing Details							
ID:	4.778 in			Collapse Rating:	10,630 psi		
Drift:	4.653 in			Burst Rating:	8,990 psi		
Connection OD:	6.3 in			Body Yield:	466 kips		
Capacity:	0.0222 bbl/ft			Joint Stregth:	503 kips		
Notes: All connections in the shoe track should be Thread Locked							

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue, Suite 500 Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 381519
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/19/2024
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	11/19/2024
ward.rikala	This well is within the Roswell Artesia Aquifer. The 1st intermediate string shall be sat and cemented back to surface immediately above the top of the Roswell Artesia Aquifer. The 2nd intermediate string shall be sat and cemented back to surface immediately below the base of the Roswell Artesia Aquifer.	11/19/2024
ward.rikala	All previous COA's not addressed by the updated COA's still apply.	11/19/2024