



ENDURING RESOURCES IV LLC

June 1, 2023

Re: GREATER LYBROOK UNIT 051H-30-045-38282

Pursuant to NMOCD rule 19.15.7.16(C) request is herein made to keep all data and accompanying attachments contained in form C-105 confidential.

Sincerely,

A handwritten signature in blue ink, appearing to read "Heather Huntington".

Heather Huntington
Permitting Technician
Enduring Resources, LLC.
hhuntington@enduringresources.com

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

Submit one copy to
Appropriate District Office

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

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38282	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 051H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6747'

¹⁰ Surface Location

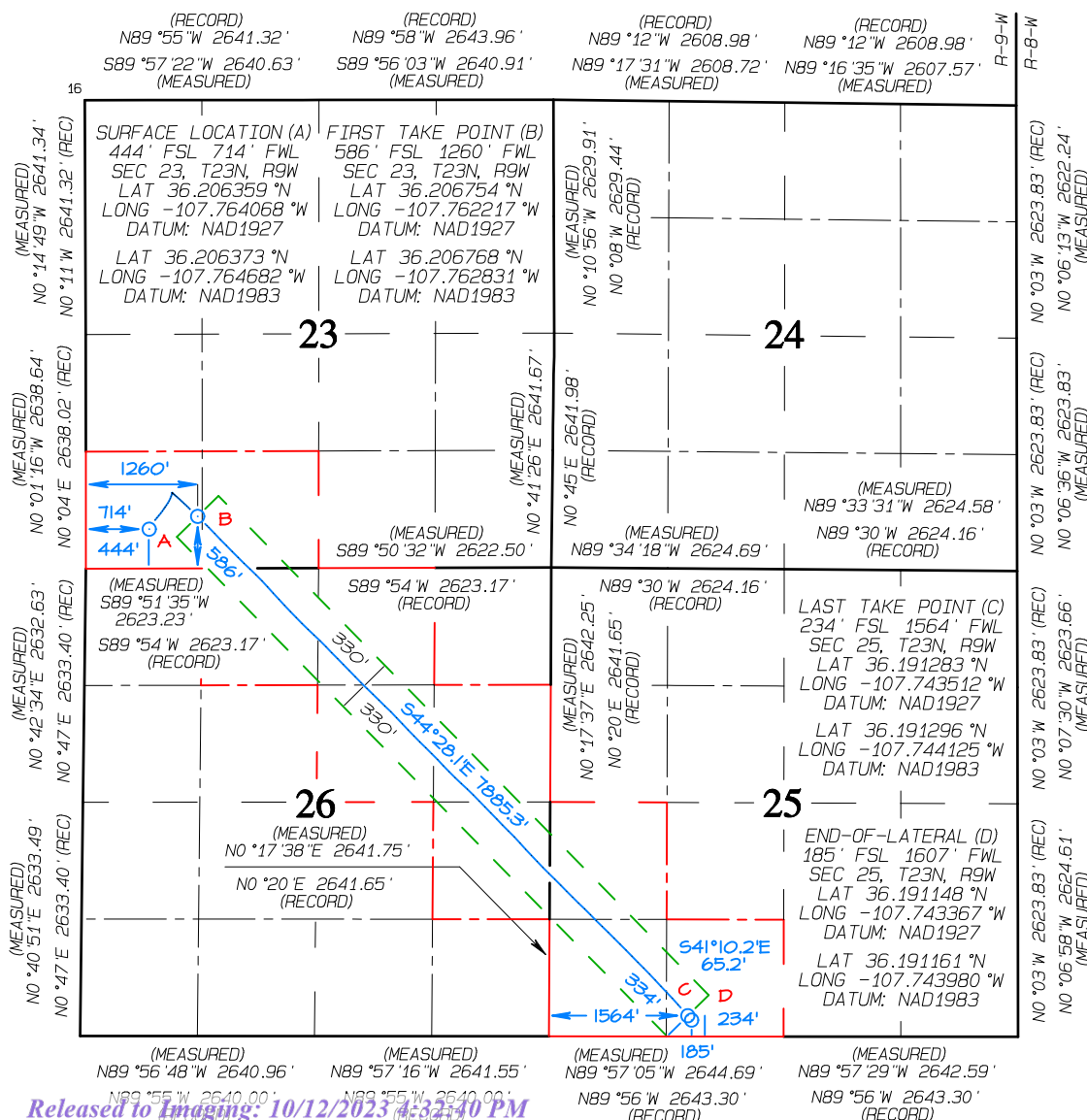
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	23N	9W		444	SOUTH	714	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	25	23N	9W		185	SOUTH	1607	WEST	SAN JUAN

¹² Dedicated Acres 400.0	S/2 SW/4 - Section 23 NE/4 NW/4, NW/4 NE/4 S/2 NE/4, NE/4 SE/4 - Section 26 W/2 SW/4, SE/4 SW/4 - Section 25	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-22081
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

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

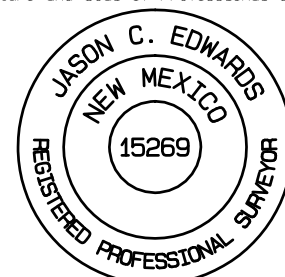
Signature: Heather Huntington Date: 5/31/23
Printed Name: hhuntington@enduringresources.com
E-mail Address:

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MAY 31, 2023
Date of Survey: MAY 20, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

District I
1025 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
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⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 051H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6747'

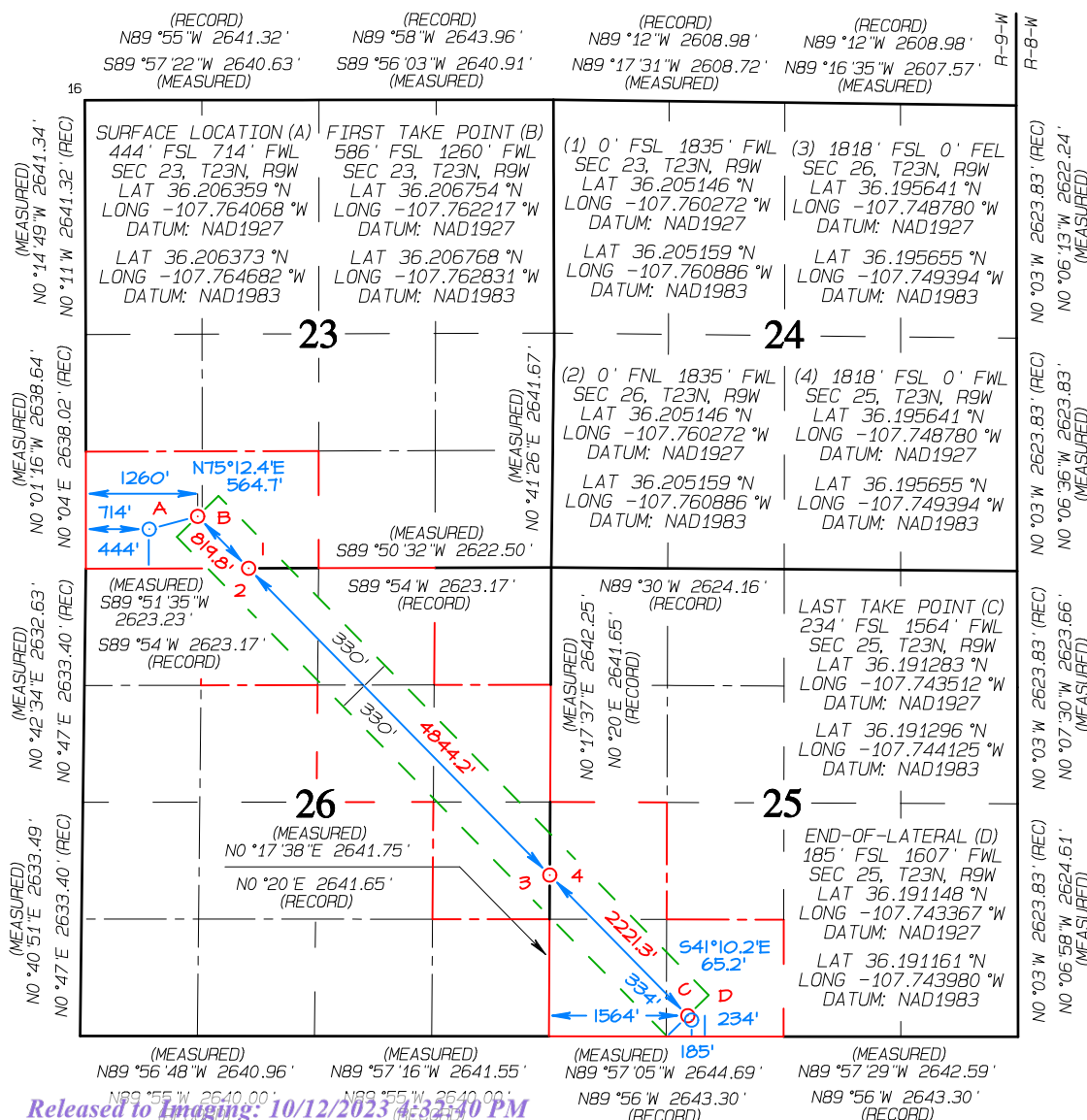
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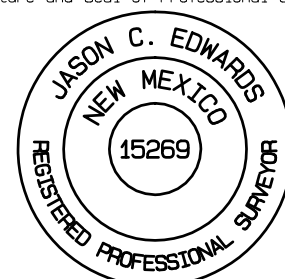
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this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

Signature: Heather Huntington Date: 5/31/23Printed Name: Heather HuntingtonE-mail Address: hhuntington@enduringresources.comE-mail Address: hhuntington@enduringresources.comE-mail Address: hhuntington@enduringresources.com¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MAY 31, 2023Date of Survey: MAY 20, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Reference	Surveys Original Hole		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,445.10ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Program	Date	5/3/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
415.00	2,558.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard
2,640.00	12,312.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
12,451.00	12,451.00	Projection (Original Hole)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Greater Lybrook 57 Pad (52,53,54,55,56 & 57)						
Greater Lybrook Unit No. 053H - Original Hole - rev0	9,000.00	9,713.45	1,194.93	968.91	5.287	CC
Greater Lybrook Unit No. 053H - Original Hole - rev0	12,200.00	12,912.61	1,207.20	837.25	3.263	ES
Greater Lybrook Unit No. 053H - Original Hole - rev0	12,451.00	13,163.19	1,221.13	840.89	3.211	SF
Greater Lybrook Pad (48,49,50,51 & 52)						
Greater Lybrook Unit No. 048H - Original Hole - MWD su	0.00	0.00	80.09			
Greater Lybrook Unit No. 048H - Original Hole - MWD su	100.00	99.98	80.22	79.91	264.655	ES
Greater Lybrook Unit No. 048H - Original Hole - MWD su	1,100.00	1,088.69	102.09	95.86	16.376	SF
Greater Lybrook Unit No. 048H - Original Hole - rev2	0.00	0.00	80.09			
Greater Lybrook Unit No. 048H - Original Hole - rev2	200.00	200.00	80.54	79.74	99.792	ES
Greater Lybrook Unit No. 048H - Original Hole - rev2	1,200.00	1,190.55	97.27	89.79	12.998	SF
Greater Lybrook Unit No. 049H - Original Hole - rev2	0.00	0.00	60.12			
Greater Lybrook Unit No. 049H - Original Hole - rev2	1,500.14	1,499.94	67.41	57.68	6.928	ES
Greater Lybrook Unit No. 049H - Original Hole - rev2	11,200.00	11,139.60	1,237.81	918.53	3.877	SF
Greater Lybrook Unit No. 049H - Original Hole - Surveys	0.00	0.00	60.12			
Greater Lybrook Unit No. 049H - Original Hole - Surveys	100.00	99.97	60.25	59.95	198.804	ES
Greater Lybrook Unit No. 049H - Original Hole - Surveys	1,500.00	1,497.41	69.94	60.82	7.667	SF
Greater Lybrook Unit No. 050H - Original Hole - Surveys	1,530.37	1,530.70	38.67	29.30	4.126	CC, ES
Greater Lybrook Unit No. 050H - Original Hole - Surveys	11,868.54	12,156.00	730.10	458.69	2.690	SF
Greater Lybrook Unit No. 051H - Original Hole - rev2	100.00	100.00	0.19	-0.08	0.719	Level 1<1.00, CC
Greater Lybrook Unit No. 051H - Original Hole - rev2	6,220.61	6,183.80	2.46	-38.84	0.060	Level 1<1.00, SF
Greater Lybrook Unit No. 051H - Original Hole - rev2	12,000.00	11,961.56	19.37	-150.31	0.114	Level 1<1.00, ES
Greater Lybrook Unit No. 052H - Original Hole - rev2	747.99	747.93	17.07	12.72	3.922	CC
Greater Lybrook Unit No. 052H - Original Hole - rev2	2,424.09	2,418.56	21.71	6.03	1.384	Level 2<1.50, ES
Greater Lybrook Unit No. 052H - Original Hole - rev2	2,500.00	2,494.47	22.45	6.09	1.372	Level 2<1.50, SF
Greater Lybrook Unit No. 052H - Original Hole - Surveys	993.37	993.33	12.36	6.82	2.231	CC
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,000.00	999.95	12.38	6.79	2.216	ES
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,100.00	1,099.82	13.27	6.99	2.114	SF
Rodeo Unit 511 pad (511, 512 & 513)						
Rodeo Unit #511H - Original Hole - Surveys Original Hole	12,451.00	4,116.74	1,070.79	964.24	10.050	CC, ES, SF
Rodeo Unit #512H - Original Hole - Surveys Original Hole	12,277.69	4,341.10	464.00	270.50	2.398	CC, ES, SF

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
W Lybrook 726 Pad (726, 728, 729, 760 & 761)						
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,400.70	1,406.17	121.78	113.35	14.450	CC, ES
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,600.00	1,597.72	130.58	120.65	13.150	SF
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,400.70	1,406.17	121.78	113.35	14.450	CC, ES
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,600.00	1,597.72	130.58	120.65	13.150	SF
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,987.29	1,994.99	47.03	34.52	3.759	CC, ES, SF
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,520.44	1,527.81	114.33	104.81	12.010	CC, ES
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,600.00	1,604.94	116.39	106.26	11.484	SF
W Lybrook Unit No. 760H - Original Hole - Surveys Origin	1,933.60	1,953.58	58.12	45.95	4.774	CC, ES, SF
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	841.38	843.21	152.08	147.67	34.422	CC
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,100.00	1,101.59	152.75	146.54	24.608	ES
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,600.00	1,588.97	176.38	166.59	18.020	SF

Offset Design: Greater Lybrook 57 Pad (52,53,54,55,56 & 57) - Greater Lybrook Unit No. 053H - Original Hole - rev0													Offset Site Error: 0.00 ft
Survey Program: O-MWD													Offset Well Error: 0.00 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
3,200.00	3,132.17	3,806.50	3,424.94	11.08	30.91	20.32	1,490.65	1,109.16	1,430.72	1,392.40	38.32	37.339	
3,300.00	3,230.24	3,891.64	3,498.50	11.33	31.78	17.84	1,506.04	1,069.14	1,397.02	1,357.55	39.47	35.391	
3,400.00	3,329.41	3,994.10	3,589.12	11.53	32.74	18.86	1,521.50	1,024.11	1,370.41	1,329.72	40.69	33.679	
3,500.00	3,429.20	4,118.81	3,707.44	11.67	33.50	33.23	1,524.98	985.66	1,349.41	1,307.87	41.54	32.487	
3,600.00	3,529.18	4,251.90	3,837.97	11.78	33.85	106.46	1,509.36	966.94	1,331.26	1,289.45	41.81	31.842	
3,700.00	3,629.18	4,380.07	3,961.42	11.88	33.87	-123.91	1,476.24	971.58	1,311.82	1,270.14	41.68	31.475	
3,800.00	3,728.88	4,496.30	4,066.23	11.98	33.77	-96.25	1,432.24	994.87	1,291.56	1,250.08	41.48	31.139	
3,900.00	3,827.12	4,600.90	4,151.05	12.10	33.64	-95.55	1,382.80	1,030.55	1,271.47	1,230.11	41.36	30.739	
4,000.00	3,922.72	4,694.65	4,217.00	12.21	33.56	-96.10	1,331.97	1,073.39	1,253.65	1,212.25	41.40	30.279	
4,100.00	4,012.89	4,780.94	4,267.71	12.35	33.54	-96.34	1,280.93	1,120.89	1,239.51	1,197.88	41.63	29.775	
4,200.00	4,094.29	4,875.96	4,315.27	12.53	33.60	-96.21	1,222.25	1,178.53	1,229.52	1,187.52	42.00	29.272	
4,300.00	4,164.77	5,005.52	4,363.44	12.78	33.82	-95.44	1,136.72	1,262.66	1,222.13	1,179.61	42.52	28.744	
4,400.00	4,222.27	5,120.79	4,382.70	13.18	34.16	-92.96	1,055.83	1,342.22	1,215.21	1,171.66	43.56	27.900	
4,500.00	4,264.02	5,218.61	4,383.81	13.88	34.55	-92.21	986.12	1,410.79	1,208.47	1,163.34	45.13	26.778	
4,600.00	4,287.83	5,315.47	4,383.47	14.93	35.06	-91.76	917.07	1,478.72	1,206.06	1,158.93	47.12	25.593	
4,630.40	4,291.34	5,345.65	4,383.36	15.31	35.25	-91.62	895.56	1,499.88	1,205.97	1,158.15	47.81	25.223	
4,700.00	4,291.81	5,415.22	4,383.12	16.27	35.71	-91.56	845.96	1,548.67	1,206.71	1,157.19	49.51	24.371	
4,800.00	4,286.91	5,515.11	4,382.77	17.83	36.50	-91.78	774.74	1,618.71	1,207.67	1,155.47	52.20	23.135	
4,900.00	4,282.68	5,615.03	4,382.42	19.55	37.42	-91.97	703.51	1,688.78	1,208.37	1,153.24	55.13	21.920	
5,000.00	4,278.03	5,714.94	4,382.07	21.39	38.47	-92.19	632.28	1,758.84	1,208.46	1,150.21	58.25	20.745	
5,100.00	4,272.91	5,814.82	4,381.72	23.32	39.63	-92.42	561.08	1,828.89	1,208.30	1,146.75	61.55	19.632	
5,200.00	4,270.88	5,914.80	4,381.37	25.32	40.89	-92.51	489.80	1,898.99	1,207.25	1,142.26	64.98	18.577	
5,300.00	4,269.14	6,014.77	4,381.02	27.37	42.26	-92.59	418.53	1,969.10	1,205.36	1,136.82	68.55	17.584	
5,400.00	4,267.50	6,114.72	4,380.67	29.47	43.71	-92.66	347.27	2,039.19	1,202.61	1,130.39	72.22	16.653	
5,483.09	4,266.44	6,197.80	4,380.38	31.23	44.97	-92.66	288.05	2,097.45	1,201.57	1,126.24	75.32	15.952	
5,500.00	4,266.24	6,214.69	4,380.32	31.59	45.24	-92.67	276.00	2,109.29	1,201.01	1,125.05	75.96	15.811	
5,600.00	4,265.54	6,314.65	4,379.97	33.69	46.84	-92.68	204.74	2,179.39	1,203.77	1,124.00	79.76	15.092	
5,700.00	4,265.03	6,414.60	4,379.62	35.80	48.50	-92.68	133.48	2,249.48	1,206.95	1,123.33	83.62	14.433	
5,800.00	4,264.29	6,514.54	4,379.27	37.92	50.21	-92.67	62.24	2,319.56	1,210.58	1,123.04	87.54	13.829	
5,900.00	4,262.92	6,614.46	4,378.92	40.06	51.98	-92.71	-9.00	2,389.63	1,214.24	1,122.74	91.51	13.270	
6,000.00	4,261.19	6,714.43	4,378.57	42.23	53.78	-92.79	-80.27	2,459.73	1,216.41	1,120.88	95.53	12.733	
6,100.00	4,258.65	6,814.40	4,378.22	44.43	55.63	-92.90	-151.54	2,529.84	1,217.04	1,117.43	99.60	12.219	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
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Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook 57 Pad (52,53,54,55,56 & 57) - Greater Lybrook Unit No. 053H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
6,200.00	4,254.79	6,914.34	4,377.87	46.64	57.51	-93.10	-222.78	2,599.91	1,216.35	1,112.63	103.72	11.727	
6,300.00	4,253.10	7,014.30	4,377.52	48.88	59.42	-93.15	-294.05	2,670.01	1,214.37	1,106.49	107.88	11.257	
6,400.00	4,251.85	7,114.26	4,377.17	51.12	61.36	-93.21	-365.31	2,740.11	1,211.81	1,099.74	112.07	10.813	
6,500.00	4,249.75	7,214.21	4,376.82	53.37	63.32	-93.28	-436.57	2,810.20	1,209.29	1,093.00	116.29	10.399	
6,582.42	4,250.02	7,296.63	4,376.53	55.21	64.96	-93.25	-495.32	2,867.99	1,208.65	1,088.87	119.78	10.091	
6,600.00	4,250.93	7,314.19	4,376.47	55.60	65.31	-93.21	-507.84	2,880.31	1,209.19	1,088.66	120.53	10.032	
6,700.00	4,252.95	7,414.16	4,376.12	57.84	67.32	-93.09	-579.12	2,950.42	1,209.30	1,084.51	124.79	9.691	
6,800.00	4,253.86	7,514.15	4,375.77	60.07	69.34	-93.03	-650.40	3,020.53	1,209.39	1,080.32	129.07	9.370	
6,900.00	4,253.65	7,614.15	4,375.42	62.32	71.38	-93.02	-721.69	3,090.66	1,209.53	1,076.17	133.36	9.070	
7,000.00	4,253.54	7,714.15	4,375.07	64.56	73.44	-93.02	-792.98	3,160.78	1,210.03	1,072.37	137.66	8.790	
7,100.00	4,255.32	7,814.12	4,374.72	66.80	75.51	-92.90	-864.25	3,230.89	1,210.62	1,068.63	141.99	8.526	
7,200.00	4,257.08	7,914.09	4,374.37	69.06	77.59	-92.79	-935.52	3,300.99	1,209.30	1,062.96	146.35	8.263	
7,300.00	4,258.85	8,014.02	4,374.02	71.34	79.69	-92.68	-1,006.76	3,371.06	1,206.06	1,055.33	150.73	8.002	
7,400.00	4,259.14	8,113.96	4,373.67	73.62	81.79	-92.70	-1,078.01	3,441.15	1,203.24	1,048.13	155.11	7.757	
7,500.00	4,257.22	8,213.95	4,373.31	75.88	83.91	-92.78	-1,149.29	3,511.26	1,202.77	1,043.29	159.48	7.542	
7,600.00	4,254.92	8,313.91	4,372.96	78.16	86.03	-92.90	-1,220.56	3,581.36	1,200.97	1,037.10	163.87	7.329	
7,642.87	4,253.99	8,356.77	4,372.81	79.12	86.94	-92.90	-1,251.11	3,611.41	1,200.45	1,034.71	165.74	7.243	
7,700.00	4,253.14	8,413.88	4,372.61	80.41	88.16	-92.91	-1,291.83	3,651.46	1,201.65	1,033.40	168.25	7.142	
7,800.00	4,250.91	8,513.81	4,372.26	82.64	90.30	-92.98	-1,363.07	3,721.54	1,205.10	1,032.49	172.61	6.982	
7,900.00	4,250.78	8,613.79	4,371.91	84.89	92.45	-93.00	-1,434.34	3,791.65	1,206.37	1,029.36	177.01	6.815	
8,000.00	4,251.64	8,713.78	4,371.56	87.16	94.60	-92.94	-1,505.63	3,861.77	1,206.29	1,024.85	181.43	6.649	
8,100.00	4,251.12	8,813.78	4,371.21	89.43	96.76	-92.96	-1,576.92	3,931.89	1,205.66	1,019.80	185.86	6.487	
8,200.00	4,249.44	8,913.76	4,370.86	91.71	98.93	-93.03	-1,648.20	4,002.00	1,204.67	1,014.39	190.29	6.331	
8,300.00	4,247.27	9,013.74	4,370.51	93.98	101.10	-93.11	-1,719.47	4,072.11	1,203.64	1,008.93	194.71	6.182	
8,300.64	4,247.27	9,014.38	4,370.51	93.99	101.11	-93.11	-1,719.93	4,072.56	1,203.64	1,008.90	194.74	6.181	
8,400.00	4,248.88	9,113.71	4,370.16	96.24	103.27	-93.03	-1,790.74	4,142.21	1,204.77	1,005.60	199.16	6.049	
8,500.00	4,250.57	9,213.67	4,369.81	98.50	105.46	-92.92	-1,862.01	4,212.31	1,206.03	1,002.41	203.61	5.923	
8,600.00	4,251.11	9,313.67	4,369.46	100.77	107.64	-92.87	-1,933.30	4,282.43	1,206.06	997.99	208.07	5.796	
8,700.00	4,251.43	9,413.62	4,369.11	103.06	109.83	-92.84	-2,004.55	4,352.52	1,203.12	990.57	212.55	5.660	
8,800.00	4,252.12	9,513.54	4,368.76	105.36	112.02	-92.78	-2,075.78	4,422.59	1,199.12	982.08	217.04	5.525	
8,900.00	4,253.58	9,613.48	4,368.41	107.66	114.22	-92.71	-2,147.03	4,492.67	1,196.14	974.60	221.54	5.399	
8,974.99	4,254.29	9,688.45	4,368.15	109.37	115.87	-92.68	-2,200.48	4,545.25	1,195.11	970.20	224.90	5.314	
9,000.00	4,254.44	9,713.45	4,368.06	109.94	116.42	-92.68	-2,218.30	4,562.78	1,194.93	968.91	226.02	5.287 CC	
9,100.00	4,255.39	9,813.42	4,367.71	112.20	118.62	-92.61	-2,289.58	4,632.88	1,196.68	966.19	230.50	5.192	
9,200.00	4,256.48	9,913.41	4,367.36	114.46	120.83	-92.53	-2,360.86	4,703.00	1,197.37	962.40	234.98	5.096	
9,300.00	4,257.37	10,013.40	4,367.01	116.73	123.04	-92.47	-2,432.14	4,773.12	1,197.55	958.08	239.47	5.001	
9,305.45	4,257.40	10,018.85	4,366.99	116.86	123.16	-92.47	-2,436.03	4,776.94	1,197.55	957.84	239.71	4.996	
9,400.00	4,257.99	10,113.39	4,366.66	119.01	125.25	-92.43	-2,503.43	4,843.24	1,198.08	954.12	243.96	4.911	
9,500.00	4,258.43	10,213.38	4,366.31	121.29	127.47	-92.39	-2,574.71	4,913.35	1,196.75	948.30	248.45	4.817	
9,530.62	4,258.46	10,244.00	4,366.20	121.98	128.15	-92.38	-2,596.54	4,934.82	1,196.50	946.68	249.83	4.789	
9,600.00	4,258.15	10,313.35	4,365.96	123.55	129.69	-92.37	-2,645.98	4,983.45	1,198.46	945.53	252.93	4.738	
9,700.00	4,257.02	10,413.28	4,365.61	125.79	131.90	-92.38	-2,717.23	5,053.53	1,201.95	944.55	257.39	4.670	
9,800.00	4,254.59	10,513.21	4,365.26	128.04	134.13	-92.46	-2,788.47	5,123.61	1,205.15	943.30	261.84	4.603	
9,900.00	4,251.37	10,613.15	4,364.91	130.30	136.35	-92.62	-2,859.71	5,193.69	1,207.21	940.91	266.30	4.533	
10,000.00	4,250.99	10,713.14	4,364.56	132.57	138.58	-92.64	-2,931.00	5,263.80	1,208.57	937.78	270.78	4.463	
10,100.00	4,250.57	10,813.14	4,364.21	134.84	140.80	-92.64	-3,002.29	5,333.93	1,209.15	933.87	275.28	4.392	
10,200.00	4,249.52	10,913.12	4,363.86	137.13	143.04	-92.70	-3,073.56	5,404.04	1,207.61	927.83	279.79	4.316	
10,300.00	4,248.15	11,013.09	4,363.51	139.42	145.27	-92.73	-3,144.83	5,474.14	1,205.77	921.48	284.29	4.241	
10,312.46	4,248.19	11,025.55	4,363.47	139.70	145.55	-92.72	-3,153.72	5,482.88	1,205.76	920.91	284.85	4.233	
10,400.00	4,249.26	11,113.07	4,363.16	141.69	147.50	-92.66	-3,216.11	5,544.26	1,206.65	917.85	288.81	4.178	
10,500.00	4,249.64	11,213.07	4,362.81	143.97	149.74	-92.62	-3,287.40	5,614.38	1,206.79	913.47	293.32	4.114	
10,600.00	4,249.32	11,313.06	4,362.46	146.26	151.97	-92.64	-3,358.68	5,684.49	1,205.19	907.35	297.84	4.046	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook 57 Pad (52,53,54,55,56 & 57) - Greater Lybrook Unit No. 053H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,700.00	4,247.66	11,413.01	4,362.11	148.56	154.21	-92.73	-3,429.94	5,754.59	1,202.64	900.29	302.35	3.978	
10,800.00	4,246.97	11,512.99	4,361.76	150.85	156.45	-92.71	-3,501.22	5,824.69	1,201.19	894.32	306.87	3.914	
10,848.31	4,247.53	11,561.29	4,361.59	151.95	157.53	-92.67	-3,535.65	5,858.56	1,201.12	892.05	309.06	3.886	
10,900.00	4,247.94	11,612.98	4,361.41	153.13	158.69	-92.65	-3,572.50	5,894.81	1,200.86	889.45	311.40	3.856	
11,000.00	4,247.45	11,712.97	4,361.06	155.42	160.93	-92.67	-3,643.79	5,964.93	1,199.66	883.73	315.93	3.797	
11,100.00	4,245.49	11,812.93	4,360.71	157.72	163.18	-92.76	-3,715.05	6,035.03	1,197.56	877.13	320.43	3.737	
11,186.04	4,245.00	11,898.96	4,360.41	159.69	165.11	-92.75	-3,776.38	6,095.35	1,196.66	872.34	324.32	3.690	
11,200.00	4,245.51	11,912.92	4,360.36	160.01	165.42	-92.72	-3,786.33	6,105.14	1,197.07	872.11	324.96	3.684	
11,300.00	4,246.43	12,012.91	4,360.01	162.29	167.67	-92.66	-3,857.62	6,175.26	1,196.63	867.13	329.50	3.632	
11,400.00	4,246.03	12,112.90	4,359.66	164.58	169.91	-92.67	-3,928.90	6,245.38	1,195.21	861.19	334.03	3.578	
11,443.42	4,245.34	12,156.32	4,359.50	165.57	170.89	-92.69	-3,959.85	6,275.82	1,195.04	859.06	335.98	3.557	
11,500.00	4,243.94	12,212.88	4,359.31	166.86	172.16	-92.73	-4,000.18	6,315.49	1,195.83	857.31	338.52	3.533	
11,600.00	4,240.71	12,312.84	4,358.96	169.14	174.41	-92.90	-4,071.44	6,385.58	1,196.28	853.28	343.00	3.488	
11,685.99	4,238.05	12,398.79	4,358.65	171.10	176.34	-92.99	-4,132.72	6,445.86	1,196.37	849.53	346.85	3.449	
11,700.00	4,237.27	12,412.78	4,358.61	171.42	176.66	-93.03	-4,142.69	6,455.67	1,195.64	848.17	347.47	3.441	
11,800.00	4,235.81	12,512.75	4,358.26	173.68	178.91	-93.07	-4,213.96	6,525.77	1,197.83	845.87	351.96	3.403	
11,900.00	4,234.11	12,612.73	4,357.90	175.95	181.16	-93.13	-4,285.24	6,595.88	1,199.44	842.99	356.45	3.365	
12,000.00	4,232.25	12,712.70	4,357.55	178.22	183.41	-93.21	-4,356.51	6,665.98	1,201.32	840.40	360.93	3.328	
12,100.00	4,232.51	12,812.65	4,357.20	180.47	185.67	-93.18	-4,427.76	6,736.07	1,204.33	838.89	365.44	3.296	
12,200.00	4,232.25	12,912.61	4,356.85	182.73	187.92	-93.15	-4,499.02	6,806.17	1,207.20	837.25	369.95	3.263 ES	
12,300.00	4,230.79	13,012.48	4,356.50	184.97	190.17	-93.13	-4,570.22	6,876.20	1,212.14	837.73	374.41	3.237	
12,400.00	4,228.39	13,112.29	4,356.15	186.64	192.42	-93.21	-4,641.38	6,946.19	1,218.09	839.79	378.30	3.220	
12,451.00	4,227.17	13,163.19	4,355.98	187.46	193.57	-93.25	-4,677.67	6,981.89	1,221.13	840.89	380.25	3.211 SF	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 048H - Original Hole - MWD surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 416-MWD												Offset Well Error:	0.00 ft
Reference												Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	0.00	0.00	0.00	0.00	-131.96	-53.55	-59.56	80.09				
100.00	100.00	99.98	99.98	0.13	0.17	-125.39	-53.51	-59.61	80.22	79.91	0.30	264.655 ES	
200.00	200.00	199.96	199.96	0.31	0.34	-125.57	-53.37	-59.79	80.59	79.94	0.65	123.780	
300.00	299.99	299.93	299.93	0.49	0.51	-125.86	-53.14	-60.09	81.22	80.22	1.00	81.294	
400.00	399.98	399.91	399.91	0.67	0.67	-126.26	-52.81	-60.51	82.10	80.76	1.35	60.948	
500.00	499.97	500.03	500.03	1.01	1.00	-121.18	-52.30	-61.03	83.08	81.07	2.01	41.392	
600.00	599.95	599.75	599.74	1.36	1.36	-121.86	-51.69	-61.71	84.10	81.38	2.72	30.883	
700.00	699.94	699.48	699.47	1.72	1.72	-122.47	-51.37	-62.59	85.44	82.00	3.44	24.847	
800.00	799.93	799.39	799.38	2.08	2.07	-117.80	-51.34	-63.47	86.82	82.67	4.15	20.908	
900.00	899.92	898.18	898.16	2.44	2.42	-118.03	-51.59	-64.38	88.33	83.46	4.86	18.170	
1,000.00	999.91	993.94	993.81	2.80	2.77	-101.60	-53.20	-68.37	92.83	87.28	5.55	16.713	
1,100.00	1,099.91	1,088.69	1,088.09	3.15	3.11	-93.53	-56.78	-77.00	102.09	95.86	6.23	16.376 SF	
1,200.00	1,199.90	1,182.83	1,181.25	3.51	3.47	-93.30	-62.81	-89.09	115.96	109.05	6.90	16.802	
1,300.00	1,299.90	1,275.42	1,272.22	3.87	3.85	-89.14	-72.14	-103.49	134.33	126.78	7.55	17.797	
1,400.00	1,399.90	1,366.34	1,360.74	4.22	4.24	-64.66	-85.35	-119.47	157.04	148.87	8.17	19.214	
1,500.00	1,499.90	1,455.36	1,446.44	4.58	4.66	-55.99	-101.88	-136.94	183.79	175.03	8.77	20.958	
1,600.00	1,599.88	1,541.90	1,528.68	4.93	5.10	-164.32	-120.09	-156.75	216.06	206.70	9.36	23.094	
1,700.00	1,699.64	1,626.22	1,607.81	5.28	5.57	-167.87	-138.77	-179.09	256.63	246.68	9.95	25.790	
1,800.00	1,798.80	1,713.74	1,689.48	5.64	6.10	-167.87	-158.20	-203.84	303.93	293.30	10.62	28.610	
1,900.00	1,897.24	1,800.68	1,770.62	6.02	6.63	-169.41	-177.20	-228.60	355.30	343.99	11.30	31.436	
2,000.00	1,994.74	1,884.95	1,849.36	6.41	7.17	-170.71	-195.36	-252.52	410.43	398.46	11.97	34.299	
2,100.00	2,090.87	1,966.75	1,925.86	6.84	7.69	-172.27	-212.73	-275.70	469.87	457.25	12.62	37.224	
2,200.00	2,185.46	2,049.92	2,003.80	7.30	8.22	-170.20	-229.92	-299.08	532.88	519.58	13.30	40.060	
2,300.00	2,279.17	2,131.68	2,080.77	7.80	8.75	-170.51	-246.14	-321.38	596.87	582.90	13.96	42.744	
2,400.00	2,372.60	2,209.00	2,153.69	8.33	9.24	-169.83	-261.76	-341.79	661.15	646.57	14.58	45.339	
2,500.00	2,466.33	2,284.11	2,224.50	8.87	9.72	-166.73	-277.15	-361.57	724.67	709.49	15.18	47.737	
2,600.00	2,560.50	2,362.15	2,298.04	9.35	10.22	-166.32	-293.20	-382.19	787.21	771.39	15.82	49.767	
2,700.00	2,654.92	2,445.42	2,376.57	9.65	10.76	-167.71	-310.23	-404.01	848.96	832.62	16.34	51.957	
2,800.00	2,749.39	2,538.97	2,465.12	9.91	11.35	-166.12	-328.88	-427.73	909.85	893.02	16.83	54.052	
2,900.00	2,843.98	2,626.17	2,548.05	10.20	11.90	-164.56	-345.57	-448.90	969.13	951.84	17.28	56.075	
3,000.00	2,939.26	2,646.00	2,566.92	10.50	12.02	-158.28	-349.31	-453.69	1,027.88	1,010.66	17.22	59.686	
3,100.00	3,035.26	2,646.00	2,566.92	10.80	12.02	-153.01	-349.31	-453.69	1,090.00	1,073.02	16.98	64.202	
3,200.00	3,132.17	2,646.00	2,566.92	11.08	12.02	-150.12	-349.31	-453.69	1,154.46	1,137.75	16.71	69.094	
3,300.00	3,230.24	2,646.00	2,566.92	11.33	12.02	-152.16	-349.31	-453.69	1,220.26	1,203.84	16.42	74.335	
3,400.00	3,329.41	2,646.00	2,566.92	11.53	12.02	-150.43	-349.31	-453.69	1,286.18	1,270.08	16.10	79.885	
3,500.00	3,429.20	2,646.00	2,566.92	11.67	12.02	-135.74	-349.31	-453.69	1,351.73	1,335.96	15.77	85.717	
3,600.00	3,529.18	2,646.00	2,566.92	11.78	12.02	-62.89	-349.31	-453.69	1,417.90	1,402.46	15.44	91.811	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 048H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-131.96	-53.55	-59.56	80.09				
100.00	100.00	100.00	100.00	0.13	0.13	-125.44	-53.55	-59.56	80.20	79.94	0.27	298.060	
200.00	200.00	200.00	200.00	0.31	0.49	-125.78	-53.55	-59.56	80.54	79.74	0.81	99.792 ES	
300.00	299.99	299.99	299.99	0.49	0.85	-126.33	-53.55	-59.56	81.11	79.77	1.35	60.301	
400.00	399.98	399.98	399.98	0.67	1.21	-127.10	-53.55	-59.56	81.92	80.04	1.88	43.503	
500.00	499.97	499.97	499.97	1.01	1.57	-122.51	-53.55	-59.56	82.89	80.32	2.57	32.211	
600.00	599.95	599.95	599.95	1.36	1.93	-123.80	-53.55	-59.56	83.89	80.60	3.29	25.492	
700.00	699.94	699.94	699.94	1.72	2.29	-124.96	-53.55	-59.56	84.86	80.85	4.01	21.174	
800.00	799.93	799.93	799.93	2.08	2.64	-120.70	-53.55	-59.56	85.71	80.98	4.73	18.139	
900.00	899.92	899.92	899.92	2.44	3.00	-121.23	-53.55	-59.56	86.43	80.98	5.44	15.881	
1,000.00	999.91	999.79	999.79	2.80	3.36	-105.89	-53.55	-59.56	86.86	80.70	6.16	14.106	
1,100.00	1,099.91	1,095.41	1,095.37	3.15	3.68	-99.60	-55.14	-61.53	89.62	82.80	6.83	13.130	
1,200.00	1,199.90	1,190.55	1,190.22	3.51	4.00	-100.57	-59.68	-67.20	97.27	89.79	7.48	12.998 SF	
1,300.00	1,299.90	1,284.73	1,283.65	3.87	4.33	-96.49	-67.08	-76.43	109.76	101.63	8.13	13.507	
1,400.00	1,399.90	1,377.55	1,375.04	4.22	4.67	-71.00	-77.19	-89.04	126.94	118.20	8.74	14.517	
1,500.00	1,499.90	1,468.63	1,463.85	4.58	5.04	-60.84	-89.79	-104.76	148.65	139.31	9.34	15.918	
1,600.00	1,599.88	1,557.19	1,549.19	4.93	5.42	-168.02	-104.57	-123.20	176.38	166.47	9.91	17.802	
1,700.00	1,699.64	1,641.47	1,629.31	5.28	5.82	-170.98	-120.92	-143.59	213.47	203.01	10.46	20.416	
1,800.00	1,798.80	1,723.28	1,705.97	5.64	6.24	-170.64	-138.80	-165.89	259.78	248.77	11.02	23.584	
1,900.00	1,897.24	1,809.04	1,786.00	6.02	6.72	-171.95	-158.05	-189.91	311.21	299.54	11.66	26.686	
2,000.00	1,994.74	1,892.25	1,863.67	6.41	7.20	-173.10	-176.74	-213.21	366.64	354.34	12.30	29.813	
2,100.00	2,090.87	1,972.28	1,938.36	6.84	7.68	-174.58	-194.70	-235.62	426.58	413.66	12.92	33.010	
2,200.00	2,185.46	2,049.14	2,010.10	7.30	8.15	-172.43	-211.96	-257.15	490.54	477.01	13.53	36.258	
2,300.00	2,279.17	2,124.34	2,080.29	7.80	8.61	-172.65	-228.84	-278.21	556.45	542.33	14.12	39.404	
2,400.00	2,372.60	2,199.00	2,149.97	8.33	9.09	-171.79	-245.61	-299.12	622.97	608.26	14.71	42.352	
2,500.00	2,466.33	2,274.37	2,220.32	8.87	9.57	-168.49	-262.53	-320.23	688.65	673.35	15.31	44.993	
2,600.00	2,560.50	2,350.63	2,291.50	9.35	10.06	-167.95	-279.65	-341.59	753.27	737.34	15.93	47.298	
2,700.00	2,654.92	2,427.39	2,363.15	9.65	10.57	-169.23	-296.89	-363.08	817.32	800.92	16.40	49.849	
2,800.00	2,749.39	2,504.23	2,434.87	9.91	11.07	-167.46	-314.14	-384.60	881.28	864.52	16.76	52.576	
2,900.00	2,843.98	2,581.41	2,506.90	10.20	11.59	-165.73	-331.47	-406.22	944.80	927.66	17.15	55.100	
3,000.00	2,939.26	2,660.20	2,580.45	10.50	12.12	-159.59	-349.16	-428.28	1,006.22	988.66	17.55	57.331	
3,100.00	3,035.26	2,740.85	2,655.72	10.80	12.66	-154.71	-367.26	-450.87	1,065.05	1,047.08	17.98	59.243	
3,200.00	3,132.17	2,823.78	2,733.12	11.08	13.22	-152.05	-385.88	-474.09	1,120.58	1,102.16	18.43	60.811	
3,300.00	3,230.24	2,909.42	2,813.06	11.33	13.80	-153.77	-405.11	-498.08	1,172.02	1,153.12	18.89	62.029	
3,400.00	3,329.41	2,998.12	2,895.84	11.53	14.41	-151.50	-425.03	-522.92	1,218.16	1,198.78	19.38	62.864	
3,500.00	3,429.20	3,089.58	2,981.21	11.67	15.03	-136.16	-445.56	-548.54	1,258.52	1,238.65	19.88	63.321	
3,600.00	3,529.18	3,182.82	3,068.24	11.78	15.67	-62.75	-466.50	-574.65	1,294.49	1,274.11	20.39	63.499	
3,700.00	3,629.18	3,276.39	3,155.57	11.88	16.32	65.85	-487.50	-600.85	1,329.53	1,308.63	20.91	63.589	
3,800.00	3,728.88	3,369.14	3,242.13	11.98	16.96	91.23	-508.33	-626.83	1,365.07	1,343.64	21.43	63.707	
3,900.00	3,827.12	3,459.46	3,326.44	12.10	17.59	89.81	-528.61	-652.13	1,401.71	1,379.79	21.92	63.933	
4,000.00	3,922.72	3,546.79	3,407.95	12.21	18.19	87.12	-548.21	-676.58	1,438.31	1,415.90	22.41	64.190	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 049H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-131.80	-40.07	-44.81	60.12				
100.00	100.00	100.00	100.00	0.13	0.13	-125.32	-40.07	-44.81	60.23	59.96	0.27	223.831	
200.00	200.00	200.00	200.00	0.31	0.49	-125.77	-40.07	-44.81	60.57	59.76	0.81	75.043	
300.00	299.99	299.99	299.99	0.49	0.85	-126.51	-40.07	-44.81	61.14	59.79	1.35	45.452	
400.00	399.98	399.98	399.98	0.67	1.21	-127.51	-40.07	-44.81	61.95	60.07	1.88	32.900	
500.00	499.97	499.97	499.97	1.01	1.57	-123.22	-40.07	-44.81	62.94	60.36	2.57	24.457	
600.00	599.95	599.95	599.95	1.36	1.93	-124.83	-40.07	-44.81	63.96	60.67	3.29	19.436	
700.00	699.94	699.94	699.94	1.72	2.29	-126.26	-40.07	-44.81	64.96	60.95	4.01	16.208	
800.00	799.93	799.93	799.93	2.08	2.64	-122.27	-40.07	-44.81	65.84	61.12	4.73	13.934	
900.00	899.92	899.92	899.92	2.44	3.00	-123.00	-40.07	-44.81	66.59	61.15	5.44	12.236	
1,000.00	999.91	999.91	999.91	2.80	3.36	-107.84	-40.07	-44.81	67.05	60.89	6.16	10.888	
1,100.00	1,099.91	1,099.91	1,099.91	3.15	3.72	-102.04	-40.07	-44.81	67.24	60.37	6.87	9.783	
1,200.00	1,199.90	1,199.90	1,199.90	3.51	4.08	-104.00	-40.07	-44.81	67.42	59.83	7.59	8.883	
1,300.00	1,299.90	1,299.90	1,299.90	3.87	4.44	-101.22	-40.07	-44.81	67.55	59.25	8.30	8.135	
1,400.00	1,399.90	1,399.90	1,399.90	4.22	4.79	-77.17	-40.07	-44.81	67.58	58.56	9.02	7.494	
1,500.00	1,499.90	1,499.81	1,499.81	4.58	5.15	-68.39	-40.08	-44.82	67.41	57.68	9.73	6.929	
1,500.14	1,500.04	1,499.94	1,499.94	4.58	5.15	-68.39	-40.08	-44.82	67.41	57.68	9.73	6.928 ES	
1,600.00	1,599.88	1,596.45	1,596.41	4.93	5.47	-176.02	-41.47	-46.99	71.24	60.85	10.39	6.856	
1,700.00	1,699.64	1,691.77	1,691.43	5.28	5.80	-178.10	-45.42	-53.17	85.17	74.13	11.03	7.718	
1,800.00	1,798.80	1,784.16	1,783.08	5.64	6.11	-176.43	-51.69	-62.96	109.75	98.10	11.65	9.421	
1,900.00	1,897.24	1,872.64	1,870.22	6.02	6.43	-176.40	-59.92	-75.83	143.37	131.14	12.22	11.727	
2,000.00	1,994.74	1,956.29	1,951.87	6.41	6.75	-176.38	-69.70	-91.11	185.49	172.73	12.76	14.539	
2,100.00	2,090.87	2,036.69	2,029.58	6.84	7.07	-176.82	-80.82	-108.48	236.06	222.77	13.29	17.761	
2,200.00	2,185.46	2,119.60	2,109.50	7.30	7.42	-174.08	-92.73	-127.09	291.88	277.97	13.91	20.990	
2,300.00	2,279.17	2,201.08	2,188.03	7.80	7.78	-173.81	-104.43	-145.37	349.84	335.33	14.51	24.111	
2,400.00	2,372.60	2,282.07	2,266.10	8.33	8.14	-172.63	-116.06	-163.54	408.47	393.36	15.11	27.027	
2,500.00	2,466.33	2,363.72	2,344.79	8.87	8.52	-169.24	-127.78	-181.86	466.20	450.48	15.72	29.647	
2,600.00	2,560.50	2,446.16	2,424.26	9.35	8.91	-168.55	-139.62	-200.36	522.79	506.44	16.35	31.979	
2,700.00	2,654.92	2,529.04	2,504.14	9.65	9.31	-169.64	-151.52	-218.96	578.75	561.94	16.81	34.437	
2,800.00	2,749.39	2,611.98	2,584.08	9.91	9.72	-167.82	-163.43	-237.57	634.61	617.44	17.16	36.976	
2,900.00	2,843.98	2,695.23	2,664.32	10.20	10.14	-166.07	-175.38	-256.25	689.99	672.45	17.54	39.339	
3,000.00	2,939.26	2,779.91	2,745.94	10.50	10.57	-160.04	-187.54	-275.24	743.10	725.17	17.94	41.429	
3,100.00	3,035.26	2,866.18	2,829.10	10.80	11.01	-155.23	-199.93	-294.60	793.46	775.11	18.36	43.224	
3,200.00	3,132.17	2,954.41	2,914.13	11.08	11.47	-152.49	-212.60	-314.40	840.29	821.49	18.80	44.698	
3,300.00	3,230.24	3,044.88	3,001.34	11.33	11.94	-153.94	-225.59	-334.70	882.76	863.50	19.26	45.838	
3,400.00	3,329.41	3,137.81	3,090.91	11.53	12.43	-151.41	-238.93	-355.55	919.65	899.92	19.73	46.610	
3,500.00	3,429.20	3,232.88	3,182.54	11.67	12.93	-135.82	-252.59	-376.88	950.52	930.31	20.21	47.022	
3,600.00	3,529.18	3,329.22	3,275.41	11.78	13.45	-62.19	-266.42	-398.50	976.86	956.15	20.71	47.172	
3,700.00	3,629.18	3,425.79	3,368.48	11.88	13.97	66.68	-280.29	-420.16	1,002.26	981.04	21.21	47.251	
3,800.00	3,728.88	3,521.46	3,460.70	11.98	14.48	93.00	-294.02	-441.63	1,028.33	1,006.62	21.71	47.364	
3,900.00	3,827.12	3,614.63	3,550.50	12.10	14.99	92.61	-307.40	-462.54	1,055.99	1,033.80	22.19	47.589	
4,000.00	3,922.72	3,705.56	3,638.15	12.21	15.49	91.03	-320.56	-482.84	1,084.35	1,061.69	22.66	47.857	
4,100.00	4,012.89	3,805.27	3,734.12	12.35	16.00	89.48	-342.68	-497.61	1,113.04	1,089.84	23.20	47.972	
4,200.00	4,094.29	3,913.75	3,835.72	12.53	16.49	88.06	-380.17	-499.60	1,141.01	1,117.16	23.85	47.837	
4,300.00	4,164.77	4,033.95	3,940.62	12.78	16.96	86.79	-436.45	-484.62	1,166.12	1,141.40	24.72	47.181	
4,400.00	4,222.27	4,167.44	4,042.26	13.18	17.42	87.25	-514.18	-447.64	1,188.55	1,162.59	25.95	45.797	
4,500.00	4,264.02	4,313.26	4,129.22	13.88	17.92	86.35	-612.55	-385.12	1,208.01	1,180.24	27.78	43.493	
4,600.00	4,287.83	4,437.46	4,188.09	14.93	18.45	86.08	-701.25	-321.32	1,221.56	1,191.55	30.01	40.709	
4,700.00	4,291.81	4,620.38	4,234.99	16.27	19.78	87.32	-835.78	-207.84	1,227.07	1,193.48	33.59	36.529	
4,800.00	4,286.91	4,752.79	4,238.06	17.83	21.26	87.74	-930.82	-115.83	1,226.52	1,189.53	36.98	33.164	
4,900.00	4,282.68	4,852.71	4,237.55	19.55	22.62	87.90	-1,002.06	-45.76	1,225.80	1,185.46	40.35	30.382	
4,985.70	4,278.78	4,938.34	4,237.12	21.12	23.92	88.05	-1,063.11	14.28	1,225.62	1,182.22	43.40	28.241	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 049H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,278.03	4,952.63	4,237.05	21.39	24.15	88.08	-1,073.30	24.30	1,225.72	1,181.80	43.92	27.910	
5,100.00	4,272.91	5,052.52	4,236.55	23.32	25.81	88.29	-1,144.51	94.34	1,225.94	1,178.28	47.66	25.725	
5,200.00	4,270.88	5,152.50	4,236.05	25.32	27.56	88.36	-1,215.79	164.45	1,227.02	1,175.49	51.53	23.810	
5,300.00	4,269.14	5,252.47	4,235.55	27.37	29.40	88.41	-1,287.06	234.55	1,228.93	1,173.41	55.52	22.134	
5,400.00	4,267.50	5,352.42	4,235.05	29.47	31.30	88.46	-1,358.32	304.64	1,231.72	1,172.12	59.60	20.666	
5,500.00	4,266.24	5,452.40	4,234.54	31.59	33.24	88.53	-1,429.60	374.74	1,233.35	1,169.61	63.74	19.351	
5,600.00	4,265.54	5,552.36	4,234.04	33.69	35.23	88.54	-1,500.86	444.84	1,230.61	1,162.70	67.90	18.122	
5,700.00	4,265.03	5,652.31	4,233.54	35.80	37.26	88.54	-1,572.12	514.92	1,227.43	1,155.32	72.11	17.021	
5,800.00	4,264.29	5,752.24	4,233.04	37.92	39.31	88.56	-1,643.37	585.00	1,223.81	1,147.46	76.35	16.028	
5,900.00	4,262.92	5,852.17	4,232.54	40.06	41.39	88.60	-1,714.61	655.07	1,220.17	1,139.55	80.63	15.133	
6,000.00	4,261.19	5,952.14	4,232.04	42.23	43.49	88.64	-1,785.88	725.17	1,218.05	1,133.10	84.94	14.339	
6,099.63	4,258.65	6,051.75	4,231.54	44.42	45.60	88.72	-1,856.90	795.02	1,217.52	1,128.24	89.28	13.637	
6,100.00	4,258.65	6,052.12	4,231.53	44.43	45.61	88.72	-1,857.16	795.27	1,217.49	1,128.19	89.30	13.634	
6,200.00	4,254.79	6,152.05	4,231.03	46.64	47.74	88.85	-1,928.41	865.35	1,218.29	1,124.61	93.68	13.005	
6,300.00	4,253.10	6,252.02	4,230.53	48.88	49.89	88.93	-1,999.68	935.45	1,220.33	1,122.24	98.09	12.441	
6,400.00	4,251.85	6,351.98	4,230.03	51.12	52.05	88.95	-2,070.94	1,005.54	1,222.92	1,120.41	102.51	11.929	
6,500.00	4,249.75	6,451.93	4,229.53	53.37	54.22	89.05	-2,142.20	1,075.63	1,225.53	1,118.58	106.95	11.459	
6,600.00	4,250.93	6,551.91	4,229.03	55.60	56.40	88.97	-2,213.48	1,145.74	1,225.58	1,114.18	111.39	11.002	
6,700.00	4,252.95	6,651.88	4,228.52	57.84	58.58	88.86	-2,284.75	1,215.84	1,225.39	1,109.55	115.83	10.579	
6,800.00	4,253.86	6,751.87	4,228.02	60.07	60.78	88.79	-2,356.04	1,285.95	1,225.26	1,104.98	120.29	10.186	
6,900.00	4,253.65	6,851.87	4,227.52	62.32	62.98	88.78	-2,427.33	1,356.07	1,225.13	1,100.38	124.75	9.821	
7,000.00	4,253.54	6,951.86	4,227.02	64.56	65.19	88.75	-2,498.62	1,426.19	1,224.62	1,095.40	129.22	9.477	
7,089.57	4,254.80	7,041.42	4,226.57	66.57	67.17	88.68	-2,562.46	1,488.99	1,224.28	1,091.06	133.22	9.190	
7,100.00	4,255.32	7,051.83	4,226.52	66.80	67.40	88.65	-2,569.89	1,496.29	1,223.97	1,090.29	133.69	9.155	
7,200.00	4,257.08	7,151.80	4,226.02	69.06	69.62	88.57	-2,641.16	1,566.39	1,225.25	1,087.07	138.18	8.867	
7,300.00	4,258.85	7,251.72	4,225.51	71.34	71.84	88.49	-2,712.40	1,636.45	1,228.45	1,085.77	142.68	8.610	
7,400.00	4,259.14	7,351.67	4,225.01	73.62	74.06	88.41	-2,783.65	1,706.54	1,231.27	1,084.08	147.19	8.365	
7,500.00	4,257.22	7,451.66	4,224.51	75.88	76.29	88.47	-2,854.94	1,776.65	1,231.78	1,080.08	151.70	8.120	
7,600.00	4,254.92	7,551.62	4,224.01	78.16	78.53	88.53	-2,926.20	1,846.75	1,233.64	1,077.42	156.22	7.897	
7,700.00	4,253.14	7,651.59	4,223.51	80.41	80.76	88.65	-2,997.48	1,916.85	1,233.01	1,072.29	160.72	7.672	
7,800.00	4,250.91	7,751.52	4,223.01	82.64	83.00	88.74	-3,068.72	1,986.92	1,229.61	1,064.40	165.21	7.443	
7,900.00	4,250.78	7,851.50	4,222.50	84.89	85.24	88.68	-3,140.00	2,057.03	1,228.34	1,058.63	169.71	7.238	
7,922.92	4,251.02	7,874.41	4,222.39	85.41	85.76	88.66	-3,156.34	2,073.09	1,228.33	1,057.59	170.74	7.194	
8,000.00	4,251.64	7,951.49	4,222.00	87.16	87.48	88.62	-3,211.29	2,127.14	1,228.39	1,054.17	174.22	7.051	
8,100.00	4,251.12	8,051.49	4,221.50	89.43	89.73	88.61	-3,282.58	2,197.26	1,229.03	1,050.29	178.75	6.876	
8,200.00	4,249.44	8,151.48	4,221.00	91.71	91.98	88.66	-3,353.86	2,267.37	1,230.06	1,046.78	183.28	6.711	
8,300.00	4,247.27	8,251.45	4,220.50	93.98	94.23	88.75	-3,425.14	2,337.48	1,231.16	1,043.35	187.81	6.555	
8,400.00	4,248.88	8,351.42	4,219.99	96.24	96.48	88.64	-3,496.41	2,407.58	1,229.98	1,037.65	192.33	6.395	
8,500.00	4,250.57	8,451.38	4,219.49	98.50	98.73	88.54	-3,567.68	2,477.67	1,228.67	1,031.83	196.84	6.242	
8,539.07	4,250.93	8,490.45	4,219.30	99.38	99.61	88.52	-3,595.53	2,505.07	1,228.48	1,029.87	198.61	6.185	
8,600.00	4,251.11	8,551.38	4,218.99	100.77	100.99	88.50	-3,638.96	2,547.79	1,228.62	1,027.26	201.37	6.101	
8,700.00	4,251.43	8,651.33	4,218.49	103.06	103.24	88.47	-3,710.22	2,617.88	1,231.56	1,025.64	205.92	5.981	
8,800.00	4,252.12	8,751.24	4,217.99	105.36	105.50	88.44	-3,781.45	2,687.94	1,235.55	1,025.08	210.47	5.870	
8,900.00	4,253.58	8,851.18	4,217.49	107.66	107.75	88.35	-3,852.70	2,758.01	1,238.51	1,023.49	215.02	5.760	
9,000.00	4,254.44	8,951.15	4,216.98	109.94	110.01	88.26	-3,923.97	2,828.12	1,239.70	1,020.15	219.55	5.647	
9,100.00	4,255.39	9,051.12	4,216.48	112.20	112.27	88.19	-3,995.25	2,898.22	1,237.94	1,013.87	224.07	5.525	
9,200.00	4,256.48	9,151.10	4,215.98	114.46	114.54	88.12	-4,066.53	2,968.33	1,237.23	1,008.64	228.59	5.412	
9,294.03	4,257.33	9,245.13	4,215.51	116.60	116.66	88.06	-4,133.56	3,034.26	1,237.00	1,004.15	232.85	5.312	
9,300.00	4,257.37	9,251.09	4,215.48	116.73	116.80	88.06	-4,137.82	3,038.44	1,237.05	1,003.93	233.12	5.306	
9,400.00	4,257.99	9,351.09	4,214.98	119.01	119.06	88.00	-4,209.10	3,108.56	1,236.52	998.87	237.65	5.203	
9,425.63	4,258.11	9,376.72	4,214.85	119.59	119.64	87.99	-4,227.38	3,126.53	1,236.45	997.64	238.82	5.177	
9,500.00	4,258.43	9,451.07	4,214.48	121.29	121.33	87.97	-4,280.38	3,178.67	1,237.85	995.66	242.19	5.111	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 049H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,600.00	4,258.15	9,551.04	4,213.97	123.55	123.59	87.97	-4,351.66	3,248.77	1,236.15	989.43	246.72	5.010	
9,700.00	4,257.02	9,650.98	4,213.47	125.79	125.86	88.01	-4,422.91	3,318.84	1,232.68	981.45	251.24	4.906	
9,800.00	4,254.59	9,750.91	4,212.97	128.04	128.12	88.11	-4,494.15	3,388.92	1,229.51	973.74	255.77	4.807	
9,900.00	4,251.37	9,850.85	4,212.47	130.30	130.39	88.20	-4,565.40	3,459.00	1,227.49	967.18	260.31	4.715	
10,000.00	4,250.99	9,950.84	4,211.97	132.57	132.66	88.18	-4,636.69	3,529.11	1,226.14	961.29	264.85	4.630	
10,083.49	4,250.73	10,034.32	4,211.55	134.47	134.55	88.17	-4,696.21	3,587.65	1,225.77	957.12	268.64	4.563	
10,100.00	4,250.57	10,050.84	4,211.46	134.84	134.93	88.17	-4,707.98	3,599.23	1,225.57	956.17	269.39	4.549	
10,200.00	4,249.52	10,150.82	4,210.96	137.13	137.20	88.18	-4,779.26	3,669.34	1,227.12	953.16	273.96	4.479	
10,300.00	4,248.15	10,250.79	4,210.46	139.42	139.47	88.24	-4,850.53	3,739.44	1,228.99	950.47	278.52	4.413	
10,400.00	4,249.26	10,350.77	4,209.96	141.69	141.74	88.16	-4,921.81	3,809.55	1,228.09	945.04	283.05	4.339	
10,450.27	4,249.57	10,401.04	4,209.71	142.84	142.88	88.14	-4,957.65	3,844.80	1,227.88	942.55	285.34	4.303	
10,500.00	4,249.64	10,450.77	4,209.46	143.97	144.01	88.13	-4,993.10	3,879.67	1,227.95	940.35	287.60	4.270	
10,600.00	4,249.32	10,550.75	4,208.96	146.26	146.28	88.11	-5,064.39	3,949.78	1,229.56	937.41	292.16	4.209	
10,700.00	4,247.66	10,650.71	4,208.45	148.56	148.55	88.14	-5,135.65	4,019.87	1,232.14	935.40	296.74	4.152	
10,800.00	4,246.97	10,750.69	4,207.95	150.85	150.82	88.19	-5,206.93	4,089.98	1,233.61	932.31	301.30	4.094	
10,809.97	4,247.10	10,760.66	4,207.90	151.08	151.05	88.18	-5,214.03	4,096.97	1,233.60	931.85	301.75	4.088	
10,900.00	4,247.94	10,850.68	4,207.45	153.13	153.10	88.12	-5,278.21	4,160.09	1,233.93	928.08	305.84	4.035	
11,000.00	4,247.45	10,950.67	4,206.95	155.42	155.37	88.11	-5,349.50	4,230.21	1,235.14	924.74	310.40	3.979	
11,100.00	4,245.49	11,050.63	4,206.45	157.72	157.64	88.17	-5,420.77	4,300.30	1,237.27	922.28	314.98	3.928	
11,200.00	4,245.51	11,139.60	4,206.00	160.01	159.67	88.17	-5,484.19	4,362.69	1,237.81	918.53	319.29	3.877 SF	
11,300.00	4,246.43	11,139.60	4,206.00	162.29	159.67	88.15	-5,484.19	4,362.69	1,243.16	923.15	320.01	3.885	
11,400.00	4,246.03	11,139.60	4,206.00	164.58	159.67	88.02	-5,484.19	4,362.69	1,257.45	939.39	318.06	3.953	
11,500.00	4,243.94	11,139.60	4,206.00	166.86	159.67	87.87	-5,484.19	4,362.69	1,277.47	963.80	313.67	4.073	
11,600.00	4,240.71	11,139.60	4,206.00	169.14	159.67	87.70	-5,484.19	4,362.69	1,305.04	997.81	307.23	4.248	
11,700.00	4,237.27	11,139.60	4,206.00	171.42	159.67	87.99	-5,484.19	4,362.69	1,340.54	1,041.27	299.27	4.479	
11,800.00	4,235.81	11,139.60	4,206.00	173.68	159.67	88.27	-5,484.19	4,362.69	1,379.80	1,089.77	290.02	4.758	
11,900.00	4,234.11	11,139.60	4,206.00	175.95	159.67	88.00	-5,484.19	4,362.69	1,425.53	1,145.41	280.11	5.089	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 049H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 416-MWD													Offset Well Error:	0.00 ft
Rule Assigned:													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-131.80	-40.07	-44.81	60.12					
100.00	100.00	99.97	99.97	0.13	0.17	-125.26	-40.04	-44.87	60.25	59.95	0.30	198.804 ES		
200.00	200.00	199.94	199.94	0.31	0.34	-125.53	-39.95	-45.05	60.66	60.01	0.65	93.173		
300.00	299.99	299.91	299.91	0.49	0.51	-125.97	-39.80	-45.35	61.34	60.34	1.00	61.401		
400.00	399.98	399.87	399.87	0.67	0.67	-126.57	-39.58	-45.77	62.31	60.96	1.35	46.252		
500.00	499.97	499.98	499.98	1.01	1.00	-121.81	-39.26	-46.21	63.36	61.35	2.01	31.577		
600.00	599.95	599.84	599.83	1.36	1.36	-122.98	-38.96	-46.62	64.41	61.69	2.72	23.656		
700.00	699.94	699.91	699.91	1.72	1.72	-123.95	-38.65	-47.09	65.48	62.04	3.44	19.035		
800.00	799.93	799.93	799.92	2.08	2.08	-119.54	-38.30	-47.45	66.30	62.14	4.16	15.949		
900.00	899.92	899.81	899.81	2.44	2.43	-119.99	-38.14	-47.80	67.11	62.24	4.87	13.780		
1,000.00	999.91	999.79	999.79	2.80	2.78	-104.78	-38.22	-47.96	67.68	62.10	5.58	12.134		
1,100.00	1,099.91	1,099.78	1,099.77	3.15	3.13	-98.86	-38.28	-48.20	68.03	61.75	6.29	10.820		
1,200.00	1,199.90	1,199.86	1,199.85	3.51	3.49	-100.59	-38.21	-48.51	68.32	61.32	7.00	9.757		
1,300.00	1,299.90	1,299.87	1,299.86	3.87	3.85	-97.47	-37.97	-48.83	68.45	60.73	7.72	8.870		
1,400.00	1,399.90	1,399.69	1,399.68	4.22	4.21	-73.18	-37.90	-49.15	68.60	60.17	8.43	8.139		
1,500.00	1,499.90	1,497.41	1,497.38	4.58	4.55	-63.89	-38.66	-50.57	69.94	60.82	9.12	7.667 SF		
1,600.00	1,599.88	1,593.33	1,593.09	4.93	4.90	-170.83	-41.77	-55.88	77.33	67.54	9.79	7.899		
1,700.00	1,699.64	1,687.30	1,686.37	5.28	5.24	-172.76	-47.30	-65.63	95.31	84.87	10.43	9.136		
1,800.00	1,798.80	1,778.30	1,776.05	5.64	5.58	-171.27	-54.63	-79.18	123.89	112.84	11.05	11.211		
1,900.00	1,897.24	1,864.85	1,860.61	6.02	5.93	-171.51	-63.28	-95.47	161.10	149.48	11.63	13.858		
2,000.00	1,949.74	1,949.70	1,942.75	6.41	6.29	-171.86	-73.61	-114.09	206.17	193.96	12.21	16.884		
2,100.00	2,090.87	2,034.91	2,024.95	6.84	6.67	-172.75	-84.59	-133.61	257.20	244.36	12.84	20.024		
2,200.00	2,185.46	2,119.18	2,106.31	7.30	7.06	-170.41	-95.25	-152.84	312.35	298.86	13.49	23.154		
2,300.00	2,279.17	2,201.13	2,185.44	7.80	7.44	-170.45	-105.48	-171.55	369.51	355.40	14.11	26.182		
2,400.00	2,372.60	2,281.83	2,263.32	8.33	7.83	-169.50	-115.50	-190.14	427.45	412.72	14.73	29.027		
2,500.00	2,466.33	2,361.86	2,340.47	8.87	8.23	-166.26	-125.39	-208.96	484.68	469.34	15.33	31.609		
2,600.00	2,560.50	2,443.41	2,419.00	9.35	8.64	-165.63	-135.44	-228.51	541.00	525.04	15.96	33.894		
2,700.00	2,654.92	2,527.08	2,499.57	9.65	9.07	-166.75	-145.77	-248.63	596.76	580.32	16.44	36.296		
2,800.00	2,749.39	2,595.00	2,564.99	9.91	9.43	-164.93	-154.09	-264.87	652.47	635.80	16.67	39.135		
2,900.00	2,843.98	2,595.00	2,564.99	10.20	9.43	-163.00	-154.09	-264.87	714.22	697.99	16.23	44.012		
3,000.00	2,939.26	2,595.00	2,564.99	10.50	9.43	-156.47	-154.09	-264.87	781.96	766.22	15.74	49.667		
3,100.00	3,035.26	2,595.00	2,564.99	10.80	9.43	-151.12	-154.09	-264.87	853.87	838.60	15.26	55.938		
3,200.00	3,132.17	2,595.00	2,564.99	11.08	9.43	-148.46	-154.09	-264.87	928.41	913.61	14.80	62.715		
3,300.00	3,230.24	2,595.00	2,564.99	11.33	9.43	-151.12	-154.09	-264.87	1,004.50	990.14	14.36	69.948		
3,400.00	3,329.41	2,595.00	2,564.99	11.53	9.43	-149.91	-154.09	-264.87	1,080.92	1,066.99	13.93	77.591		
3,500.00	3,429.20	2,595.00	2,564.99	11.67	9.43	-135.65	-154.09	-264.87	1,157.10	1,143.59	13.52	85.595		
3,600.00	3,529.18	2,595.00	2,564.99	11.78	9.43	-63.06	-154.09	-264.87	1,233.83	1,220.69	13.14	93.873		
3,700.00	3,629.18	2,595.00	2,564.99	11.88	9.43	64.18	-154.09	-264.87	1,313.10	1,300.27	12.83	102.323		
3,800.00	3,728.88	2,595.00	2,564.99	11.98	9.43	82.09	-154.09	-264.87	1,395.07	1,382.48	12.59	110.843		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-132.16	-26.96	-29.78	40.17					
100.00	100.00	100.07	100.07	0.13	0.17	-125.56	-26.80	-29.81	40.20	39.89	0.30	132.501		
200.00	200.00	200.13	200.13	0.31	0.34	-125.66	-26.34	-29.89	40.29	39.64	0.65	61.831		
300.00	299.99	300.20	300.20	0.49	0.51	-125.82	-25.56	-30.04	40.44	39.44	1.00	40.448		
400.00	399.98	400.27	400.26	0.67	0.68	-126.05	-24.48	-30.24	40.65	39.30	1.35	30.157		
500.00	499.97	500.44	500.41	1.01	1.00	-120.73	-22.98	-30.45	40.72	38.71	2.01	20.267		
600.00	599.95	600.41	600.37	1.36	1.36	-121.15	-21.18	-30.64	40.57	37.85	2.73	14.877		
621.66	621.61	622.03	621.99	1.44	1.44	-121.26	-20.83	-30.68	40.56	37.68	2.88	14.072		
700.00	699.94	700.22	700.18	1.72	1.72	-121.96	-19.91	-30.77	40.69	37.25	3.44	11.816		
800.00	799.93	800.18	800.13	2.08	2.08	-117.87	-19.06	-30.83	40.92	36.76	4.16	9.834		
900.00	899.92	900.08	900.03	2.44	2.44	-118.50	-18.42	-30.93	41.19	36.31	4.88	8.445		
1,000.00	999.91	1,000.06	1,000.00	2.80	2.79	-103.41	-18.04	-31.05	41.39	35.79	5.59	7.400		
1,100.00	1,099.91	1,100.10	1,100.04	3.15	3.15	-97.58	-17.55	-31.11	41.20	34.89	6.31	6.532		
1,200.00	1,199.90	1,200.11	1,200.05	3.51	3.51	-99.49	-17.10	-31.14	41.00	33.98	7.02	5.838		
1,300.00	1,299.90	1,300.18	1,300.12	3.87	3.87	-96.76	-16.64	-31.00	40.66	32.92	7.74	5.255		
1,400.00	1,399.90	1,400.28	1,400.22	4.22	4.22	-72.87	-16.06	-30.64	39.97	31.52	8.45	4.732		
1,500.00	1,499.90	1,500.35	1,500.28	4.58	4.58	-64.19	-15.30	-30.13	38.85	29.70	9.16	4.244		
1,530.37	1,530.27	1,530.70	1,530.63	4.68	4.69	-157.26	-15.04	-29.97	38.67	29.30	9.37	4.126 CC, ES		
1,600.00	1,599.88	1,600.12	1,600.05	4.93	4.94	-172.63	-14.58	-29.76	39.37	29.51	9.86	3.992		
1,700.00	1,699.64	1,699.86	1,699.79	5.28	5.29	-176.69	-14.15	-29.76	45.73	35.16	10.57	4.325		
1,800.00	1,798.80	1,798.98	1,798.91	5.64	5.65	-177.25	-13.74	-29.84	58.25	46.97	11.28	5.163		
1,900.00	1,897.24	1,897.48	1,897.41	6.02	6.00	-178.94	-13.33	-30.04	75.61	63.62	11.99	6.307		
2,000.00	1,994.74	1,992.73	1,992.63	6.41	6.33	-179.38	-12.95	-31.86	98.69	86.02	12.67	7.788		
2,100.00	2,090.87	2,085.07	2,084.82	6.84	6.65	-178.84	-12.43	-37.16	129.42	116.08	13.33	9.706		
2,200.00	2,185.46	2,176.67	2,176.07	7.30	6.98	-175.05	-11.51	-45.05	166.66	152.66	14.00	11.905		
2,300.00	2,279.17	2,268.09	2,267.08	7.80	7.30	-173.89	-10.40	-53.64	206.77	192.10	14.67	14.097		
2,400.00	2,372.60	2,358.85	2,357.43	8.33	7.63	-172.18	-9.37	-62.21	247.75	232.42	15.33	16.156		
2,500.00	2,466.33	2,450.22	2,448.39	8.87	7.96	-168.76	-8.55	-70.81	287.88	271.87	16.01	17.981		
2,600.00	2,560.50	2,541.99	2,539.76	9.35	8.16	-167.98	-7.97	-79.32	326.79	310.26	16.53	19.766		
2,700.00	2,654.92	2,633.79	2,631.17	9.65	8.22	-168.91	-7.60	-87.81	365.13	348.40	16.73	21.830		
2,800.00	2,749.39	2,726.61	2,723.59	9.91	8.26	-167.17	-7.34	-96.32	403.38	386.58	16.80	24.006		
2,900.00	2,843.98	2,819.01	2,815.63	10.20	8.32	-165.56	-7.34	-104.55	441.09	424.18	16.91	26.082		
3,000.00	2,939.26	2,912.98	2,909.26	10.50	8.38	-160.00	-7.69	-112.52	476.24	459.19	17.05	27.930		
3,100.00	3,035.26	3,007.58	3,003.54	10.80	8.47	-155.61	-8.24	-120.26	508.30	491.08	17.22	29.521		
3,200.00	3,132.17	3,103.08	3,098.72	11.08	8.57	-153.03	-8.96	-128.02	536.62	519.21	17.41	30.819		
3,300.00	3,230.24	3,200.82	3,196.15	11.33	8.68	-154.28	-9.79	-135.74	560.15	542.52	17.63	31.768		
3,400.00	3,329.41	3,299.28	3,294.32	11.53	8.81	-151.54	-10.86	-143.25	577.70	559.83	17.87	32.327		
3,500.00	3,429.20	3,397.36	3,392.13	11.67	8.95	-135.78	-12.22	-150.43	588.92	570.80	18.12	32.502		
3,600.00	3,529.18	3,494.61	3,489.09	11.78	9.10	-62.00	-14.07	-157.67	595.86	577.48	18.38	32.422		
3,700.00	3,629.18	3,594.97	3,589.15	11.88	9.27	67.12	-16.22	-165.15	602.00	583.34	18.67	32.253		
3,800.00	3,728.88	3,691.82	3,685.76	11.98	9.45	94.87	-19.26	-171.27	608.84	589.89	18.95	32.131		
3,900.00	3,827.12	3,826.20	3,819.92	12.10	9.69	97.03	-23.16	-177.26	616.66	597.27	19.39	31.807		
4,000.00	3,922.72	3,926.20	3,919.91	12.21	9.87	98.07	-23.90	-177.70	621.48	601.77	19.71	31.535		
4,100.00	4,012.89	4,015.93	4,009.64	12.35	10.03	100.04	-24.38	-177.87	629.52	609.49	20.03	31.432		
4,200.00	4,094.29	4,112.43	4,105.89	12.53	10.20	102.60	-28.97	-174.46	643.11	622.70	20.40	31.519		
4,300.00	4,164.77	4,230.83	4,221.31	12.78	10.39	105.58	-48.23	-157.38	660.34	639.47	20.86	31.651		
4,400.00	4,222.27	4,406.69	4,379.79	13.18	10.67	112.02	-98.92	-102.14	677.21	655.80	21.41	31.630		
4,500.00	4,264.02	4,536.82	4,480.76	13.88	11.00	114.13	-154.26	-42.05	695.94	673.67	22.27	31.248		
4,600.00	4,287.83	4,711.47	4,583.04	14.93	12.20	116.54	-255.66	55.49	715.68	691.77	23.90	29.941		
4,700.00	4,291.81	4,951.65	4,662.33	16.27	15.17	120.43	-414.74	215.07	730.54	703.17	27.37	26.693		
4,800.00	4,286.91	5,111.37	4,669.38	17.83	17.81	121.53	-526.58	328.71	733.23	702.18	31.05	23.616		
4,900.00	4,282.68	5,229.44	4,665.95	19.55	19.98	121.78	-608.16	413.98	730.91	696.47	34.43	21.228		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4,992.95	4,278.41	5,302.08	4,664.16	21.26	21.38	122.00	-657.90	466.90	728.89	691.90	36.99	19.704	
5,000.00	4,278.03	5,307.26	4,664.10	21.39	21.48	122.02	-661.49	470.62	728.99	691.81	37.18	19.607	
5,100.00	4,272.91	5,399.35	4,663.32	23.32	23.30	122.31	-726.28	536.07	730.40	690.14	40.26	18.142	
5,200.00	4,270.88	5,513.22	4,660.66	25.32	25.61	122.29	-806.42	616.92	730.14	686.15	43.99	16.597	
5,239.48	4,270.22	5,545.61	4,659.98	26.13	26.28	122.29	-828.93	640.19	729.81	684.58	45.23	16.136	
5,300.00	4,269.14	5,589.47	4,659.74	27.37	27.19	122.30	-859.81	671.34	730.64	683.66	46.99	15.550	
5,400.00	4,267.50	5,684.55	4,660.95	29.47	29.18	122.38	-927.62	737.96	734.60	684.20	50.40	14.575	
5,500.00	4,266.24	5,794.53	4,661.29	31.59	31.51	122.46	-1,005.70	815.42	736.47	682.28	54.19	13.591	
5,600.00	4,265.54	5,900.00	4,658.93	33.69	33.78	122.54	-1,079.92	890.31	732.21	674.33	57.88	12.651	
5,700.00	4,265.03	5,995.00	4,657.10	35.80	35.83	122.59	-1,147.47	957.06	728.56	667.23	61.34	11.878	
5,800.00	4,264.29	6,079.52	4,656.28	37.92	37.66	122.65	-1,208.97	1,015.04	726.99	662.44	64.55	11.263	
5,900.00	4,262.92	6,182.00	4,654.02	40.06	39.88	122.65	-1,283.55	1,085.29	725.31	657.08	68.23	10.631	
5,946.78	4,262.13	6,227.98	4,653.35	41.08	40.89	122.67	-1,316.81	1,117.03	724.89	654.99	69.89	10.371	
6,000.00	4,261.19	6,277.00	4,654.19	42.23	41.96	122.79	-1,351.92	1,151.22	725.42	653.79	71.63	10.127	
6,100.00	4,258.65	6,384.78	4,657.08	44.43	44.34	123.19	-1,428.43	1,227.08	727.51	652.32	75.19	9.676	
6,200.00	4,254.79	6,494.32	4,658.69	46.64	46.78	123.56	-1,505.50	1,304.89	730.07	651.30	78.77	9.268	
6,300.00	4,253.10	6,603.42	4,658.49	48.88	49.21	123.67	-1,582.03	1,382.66	731.28	648.71	82.57	8.857	
6,400.00	4,251.85	6,714.24	4,655.86	51.12	51.69	123.55	-1,659.50	1,461.85	731.22	644.67	86.56	8.448	
6,467.54	4,250.80	6,777.85	4,653.50	52.64	53.12	123.46	-1,703.93	1,507.31	730.65	641.59	89.05	8.204	
6,500.00	4,249.75	6,804.39	4,652.95	53.37	53.72	123.47	-1,722.50	1,526.26	731.22	641.11	90.12	8.114	
6,600.00	4,250.93	6,901.78	4,653.20	55.60	55.91	123.47	-1,790.47	1,595.99	728.96	635.26	93.70	7.780	
6,700.00	4,252.95	7,012.31	4,654.20	57.84	58.42	123.60	-1,866.30	1,676.41	725.01	627.57	97.44	7.441	
6,800.00	4,253.86	7,092.07	4,654.89	60.07	60.22	123.74	-1,921.18	1,734.28	722.05	621.52	100.53	7.183	
6,821.24	4,253.90	7,107.76	4,655.36	60.55	60.58	123.78	-1,932.11	1,745.53	721.96	620.84	101.12	7.140	
6,900.00	4,253.65	7,181.93	4,658.25	62.32	62.25	124.05	-1,984.11	1,798.34	722.65	619.08	103.56	6.978	
7,000.00	4,253.54	7,292.40	4,661.61	64.56	64.75	124.38	-2,061.49	1,877.11	722.60	615.56	107.04	6.751	
7,087.54	4,254.77	7,366.07	4,663.06	66.52	66.41	124.47	-2,113.24	1,929.51	721.58	611.85	109.73	6.576	
7,100.00	4,255.32	7,375.63	4,663.24	66.80	66.63	124.46	-2,120.10	1,936.18	721.19	611.08	110.11	6.550	
7,200.00	4,257.08	7,472.13	4,664.75	69.06	68.79	124.34	-2,190.22	2,002.45	723.72	609.91	113.81	6.359	
7,300.00	4,258.85	7,578.55	4,665.06	71.34	71.18	124.05	-2,267.45	2,075.66	727.00	608.97	118.03	6.160	
7,400.00	4,259.14	7,691.70	4,662.74	73.62	73.71	123.58	-2,349.62	2,153.41	729.65	607.14	122.51	5.956	
7,500.00	4,257.22	7,807.41	4,658.80	75.88	76.33	123.43	-2,432.16	2,234.40	729.35	602.67	126.68	5.757	
7,556.29	4,255.97	7,864.50	4,656.49	77.16	77.62	123.33	-2,472.59	2,274.64	729.15	600.29	128.86	5.658	
7,600.00	4,254.92	7,900.43	4,655.00	78.16	78.43	123.24	-2,498.14	2,299.86	729.63	599.23	130.40	5.595	
7,700.00	4,253.14	7,974.91	4,653.35	80.41	80.11	123.24	-2,552.04	2,351.22	730.20	596.80	133.40	5.474	
7,703.12	4,253.10	7,977.91	4,653.32	80.48	80.17	123.24	-2,554.24	2,353.27	730.20	596.69	133.50	5.469	
7,800.00	4,250.91	8,071.28	4,652.82	82.64	82.27	123.37	-2,622.62	2,416.84	730.67	594.01	136.65	5.347	
7,900.00	4,250.78	8,170.60	4,652.48	84.89	84.49	123.30	-2,695.57	2,484.24	732.09	591.73	140.36	5.216	
8,000.00	4,251.64	8,282.77	4,651.03	87.16	87.01	123.01	-2,777.54	2,560.80	733.08	588.35	144.74	5.065	
8,100.00	4,251.12	8,387.15	4,648.60	89.43	89.36	122.77	-2,853.33	2,632.53	734.25	585.41	148.85	4.933	
8,200.00	4,249.44	8,486.57	4,648.23	91.71	91.62	122.78	-2,924.45	2,701.99	736.14	583.74	152.40	4.830	
8,300.00	4,247.27	8,589.47	4,648.64	93.98	93.95	122.92	-2,997.82	2,774.15	738.50	582.62	155.88	4.738	
8,400.00	4,248.88	8,702.22	4,648.51	96.24	96.52	122.89	-3,077.32	2,854.09	735.61	575.90	159.71	4.606	
8,500.00	4,250.57	8,817.08	4,647.02	98.50	99.15	122.88	-3,157.02	2,936.78	730.61	567.10	163.51	4.468	
8,589.66	4,251.23	8,882.57	4,646.37	100.53	100.64	122.87	-3,202.65	2,983.75	728.17	561.87	166.29	4.379	
8,600.00	4,251.11	8,889.95	4,646.40	100.77	100.81	122.89	-3,207.87	2,988.97	728.04	561.48	166.55	4.371	
8,700.00	4,251.43	8,985.20	4,647.58	103.06	102.98	122.85	-3,275.79	3,055.73	730.98	560.81	170.17	4.296	
8,800.00	4,252.12	9,103.65	4,647.87	105.36	105.68	122.67	-3,359.36	3,139.67	733.22	558.76	174.46	4.203	
8,900.00	4,253.58	9,211.71	4,645.55	107.66	108.15	122.38	-3,434.71	3,217.09	731.85	553.14	178.71	4.095	
9,000.00	4,254.44	9,294.00	4,644.66	109.94	110.03	122.27	-3,492.74	3,275.41	730.78	548.59	182.19	4.011	
9,100.00	4,255.39	9,381.14	4,645.56	112.20	112.01	122.34	-3,554.91	3,336.48	729.28	544.06	185.22	3.937	
9,131.21	4,255.73	9,409.59	4,646.09	112.90	112.66	122.37	-3,575.21	3,356.40	729.19	543.01	186.18	3.917	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,200.00	4,256.48	9,471.37	4,647.55	114.46	114.06	122.42	-3,619.51	3,399.43	729.64	541.37	188.27	3.875	
9,300.00	4,257.37	9,568.05	4,651.09	116.73	116.25	122.58	-3,688.87	3,466.69	731.53	540.20	191.33	3.823	
9,400.00	4,257.99	9,661.27	4,654.75	119.01	118.36	122.75	-3,756.09	3,531.16	733.89	539.70	194.19	3.779	
9,500.00	4,258.43	9,750.76	4,657.44	121.29	120.37	122.76	-3,821.84	3,591.80	739.08	541.69	197.39	3.744	
9,600.00	4,258.15	9,888.45	4,658.80	123.55	123.48	122.76	-3,922.74	3,685.44	740.94	538.82	202.12	3.666	
9,700.00	4,257.02	10,014.88	4,656.11	125.79	126.37	122.96	-4,011.48	3,775.45	736.04	530.44	205.60	3.580	
9,800.00	4,254.59	10,095.76	4,653.98	128.04	128.22	123.13	-4,068.04	3,833.21	731.88	523.80	208.08	3.517	
9,833.86	4,253.60	10,119.12	4,653.73	128.81	128.75	123.17	-4,084.75	3,849.54	731.62	522.85	208.78	3.504	
9,900.00	4,251.37	10,174.64	4,653.85	130.30	130.01	123.30	-4,124.99	3,887.79	732.90	522.58	210.31	3.485	
10,000.00	4,250.99	10,273.82	4,655.20	132.57	132.25	123.43	-4,196.60	3,956.39	733.82	520.46	213.36	3.439	
10,100.00	4,250.57	10,374.15	4,653.00	134.84	134.51	123.17	-4,270.80	4,023.87	735.63	518.15	217.48	3.382	
10,200.00	4,249.52	10,472.26	4,650.36	137.13	136.71	122.82	-4,343.36	4,089.86	739.34	517.53	221.81	3.333	
10,300.00	4,248.15	10,565.87	4,649.84	139.42	138.82	122.68	-4,412.38	4,153.09	744.36	518.81	225.55	3.300	
10,400.00	4,249.26	10,676.19	4,650.66	141.69	141.31	122.57	-4,493.17	4,228.20	745.77	516.15	229.62	3.248	
10,500.00	4,249.64	10,781.98	4,647.82	143.97	143.70	122.25	-4,570.62	4,300.20	746.35	512.22	234.13	3.188	
10,600.00	4,249.32	10,881.71	4,646.21	146.26	145.95	122.01	-4,643.15	4,368.63	748.78	510.50	238.28	3.142	
10,700.00	4,247.66	11,003.08	4,645.81	148.56	148.72	121.99	-4,729.37	4,454.05	751.41	509.18	242.22	3.102	
10,800.00	4,246.97	11,101.63	4,646.75	150.85	150.99	122.14	-4,797.71	4,525.03	751.22	506.10	245.12	3.065	
10,900.00	4,247.94	11,204.60	4,646.32	153.13	153.35	122.13	-4,869.63	4,598.71	748.98	500.47	248.51	3.014	
10,995.86	4,247.51	11,299.60	4,643.47	155.33	155.52	121.96	-4,936.81	4,665.82	748.03	495.77	252.26	2.965	
11,000.00	4,247.45	11,303.34	4,643.37	155.42	155.61	121.96	-4,939.46	4,668.46	748.03	495.63	252.40	2.964	
11,100.00	4,245.49	11,397.08	4,642.71	157.72	157.75	121.99	-5,005.50	4,734.98	749.52	493.94	255.58	2.933	
11,200.00	4,245.51	11,498.67	4,643.68	160.01	160.09	122.13	-5,076.38	4,807.74	748.62	490.14	258.48	2.896	
11,300.00	4,246.43	11,598.50	4,645.73	162.29	162.38	122.30	-5,145.53	4,879.72	747.14	485.99	261.15	2.861	
11,400.00	4,246.03	11,708.23	4,647.23	164.58	164.91	122.51	-5,221.51	4,958.88	746.90	483.00	263.89	2.830	
11,500.00	4,243.94	11,811.54	4,648.08	166.86	167.29	122.95	-5,291.97	5,034.42	744.39	478.72	265.67	2.802	
11,600.00	4,240.71	11,918.41	4,647.32	169.14	169.76	123.27	-5,365.49	5,111.97	742.60	474.95	267.65	2.775	
11,700.00	4,237.27	12,030.52	4,646.08	171.42	172.35	123.65	-5,441.36	5,194.50	740.35	470.96	269.39	2.748	
11,800.00	4,235.81	12,135.24	4,644.71	173.68	174.47	124.07	-5,511.09	5,272.62	733.27	462.85	270.42	2.712	
11,868.54	4,234.69	12,156.00	4,644.46	175.24	174.81	124.15	-5,524.87	5,288.14	730.10	458.69	271.41	2.690 SF	
11,900.00	4,234.11	12,156.00	4,644.46	175.95	174.81	124.13	-5,524.87	5,288.14	730.93	459.89	271.04	2.697	
12,000.00	4,232.25	12,156.00	4,644.46	178.22	174.81	124.20	-5,524.87	5,288.14	741.77	476.97	264.79	2.801	
12,100.00	4,232.51	12,156.00	4,644.46	180.47	174.81	124.29	-5,524.87	5,288.14	763.50	510.92	252.58	3.023	
12,200.00	4,232.25	12,156.00	4,644.46	182.73	174.81	123.94	-5,524.87	5,288.14	797.66	561.06	236.60	3.371	
12,300.00	4,230.79	12,156.00	4,644.46	184.97	174.81	123.35	-5,524.87	5,288.14	841.51	622.88	218.63	3.849	
12,400.00	4,228.39	12,156.00	4,644.46	186.64	174.81	123.27	-5,524.87	5,288.14	894.20	693.35	200.85	4.452	
12,451.00	4,227.17	12,156.00	4,644.46	187.46	174.81	123.27	-5,524.87	5,288.14	924.09	731.74	192.35	4.804	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 051H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance	Minimum	Separation	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor	
100.00	100.00	100.00	100.00	0.13	0.13	180.00	0.00	0.00	0.19	-0.08	0.27	0.719 Level 1<1.00, CC	
200.00	200.00	200.00	200.00	0.31	0.49	180.00	0.00	0.00	0.77	-0.03	0.81	0.959 Level 1<1.00	
300.00	299.99	299.99	299.99	0.49	0.85	180.00	0.00	0.00	1.74	0.40	1.34	1.295 Level 2<1.50	
400.00	399.98	399.98	399.98	0.67	1.21	180.00	0.00	0.00	3.10	1.21	1.88	1.644 Level 3<2.00	
500.00	499.97	499.97	499.97	1.01	1.57	-175.35	0.00	0.00	4.78	2.21	2.57	1.859 Level 3<2.00	
600.00	599.95	599.95	599.95	1.36	1.93	-176.89	0.00	0.00	6.61	3.32	3.29	2.009	
700.00	699.94	699.94	699.94	1.72	2.29	-177.58	0.00	0.00	8.31	4.30	4.01	2.073	
800.00	799.93	799.93	799.93	2.08	2.64	-173.45	0.00	0.00	9.92	5.20	4.72	2.100	
900.00	899.92	899.92	899.92	2.44	3.00	-173.73	0.00	0.00	11.22	5.78	5.44	2.062	
1,000.00	999.91	999.91	999.91	2.80	3.36	-158.99	0.00	0.00	12.26	6.11	6.16	1.992 Level 3<2.00	
1,100.00	1,099.91	1,099.91	1,099.91	3.15	3.72	-154.22	0.00	0.00	13.08	6.20	6.87	1.903 Level 3<2.00	
1,200.00	1,199.90	1,199.90	1,199.90	3.51	4.08	-156.83	0.00	0.00	13.75	6.16	7.59	1.812 Level 3<2.00	
1,300.00	1,299.90	1,299.90	1,299.90	3.87	4.44	-154.56	0.00	0.00	14.30	6.00	8.30	1.723 Level 3<2.00	
1,400.00	1,399.90	1,399.90	1,399.90	4.22	4.79	-131.23	0.00	0.00	14.76	5.74	9.02	1.637 Level 3<2.00	
1,500.00	1,499.90	1,499.90	1,499.90	4.58	5.15	-123.65	0.00	0.00	15.04	5.31	9.73	1.546 Level 3<2.00	
1,600.00	1,599.88	1,599.90	1,599.90	4.93	5.51	131.47	0.00	0.00	16.06	5.63	10.44	1.539 Level 3<2.00	
1,700.00	1,699.64	1,700.48	1,700.43	5.28	5.87	137.48	2.36	1.51	18.69	7.55	11.14	1.678 Level 3<2.00	
1,800.00	1,798.80	1,801.26	1,800.88	5.64	6.23	146.91	9.21	5.86	22.12	10.32	11.80	1.875 Level 3<2.00	
1,900.00	1,897.24	1,902.30	1,901.00	6.02	6.59	153.20	20.54	13.08	25.31	12.89	12.42	2.038	
2,000.00	1,994.74	2,003.56	2,000.49	6.41	6.97	159.49	36.37	23.15	28.00	15.01	12.99	2.156	
2,100.00	2,090.87	2,104.95	2,098.98	6.84	7.36	166.83	56.65	36.06	30.96	17.46	13.50	2.293	
2,200.00	2,185.46	2,206.53	2,196.24	7.30	7.79	176.29	81.36	51.79	34.39	20.39	14.01	2.456	
2,300.00	2,279.17	2,308.30	2,291.97	7.80	8.25	-176.84	110.45	70.31	35.70	21.20	14.50	2.462	
2,400.00	2,372.60	2,408.66	2,384.99	8.33	8.74	-167.97	142.22	90.54	34.57	19.33	15.24	2.268	
2,500.00	2,466.33	2,508.57	2,477.53	8.87	9.26	-158.77	174.00	110.77	32.62	16.49	16.13	2.023	
2,600.00	2,560.50	2,608.46	2,570.05	9.35	9.81	-151.39	205.76	130.99	29.57	12.59	16.98	1.741 Level 3<2.00	
2,700.00	2,654.92	2,708.31	2,662.53	9.65	10.37	-143.28	237.52	151.21	26.35	8.53	17.81	1.479 Level 2<1.50	
2,800.00	2,749.39	2,808.15	2,755.01	9.91	10.96	-130.31	269.28	171.43	23.91	4.96	18.95	1.262 Level 2<1.50	
2,900.00	2,843.98	2,907.94	2,847.44	10.20	11.55	-115.68	300.99	191.61	21.59	1.18	20.41	1.058 Level 2<1.50	
3,000.00	2,939.26	3,007.46	2,940.75	10.50	12.13	-99.00	330.15	210.18	18.63	-3.33	21.96	0.848 Level 1<1.00	
3,100.00	3,035.26	3,107.18	3,035.93	10.80	12.68	-89.67	355.22	226.14	14.32	-8.78	23.10	0.620 Level 1<1.00	
3,200.00	3,132.17	3,206.92	3,132.55	11.08	13.19	-87.37	376.07	239.41	8.84	-15.01	23.85	0.371 Level 1<1.00	
3,300.00	3,230.24	3,306.74	3,230.40	11.33	13.66	-89.55	392.65	249.97	4.12	-20.39	24.51	0.168 Level 1<1.00	
3,391.70	3,321.14	3,398.37	3,321.01	11.51	14.05	-29.44	404.05	257.22	1.41	-21.46	22.87	0.062 Level 1<1.00	
3,400.00	3,329.41	3,406.67	3,329.26	11.53	14.08	-22.80	404.91	257.77	1.61	-20.87	22.48	0.072 Level 1<1.00	
3,500.00	3,429.20	3,506.73	3,428.87	11.67	14.46	48.55	412.79	262.79	5.05	-16.21	21.25	0.237 Level 1<1.00	
3,600.00	3,529.18	3,607.02	3,529.06	11.78	14.79	122.68	416.26	265.00	8.71	-12.22	20.92	0.416 Level 1<1.00	
3,700.00	3,629.18	3,707.14	3,629.18	11.88	15.09	-107.08	416.44	265.11	9.55	-11.67	21.22	0.450 Level 1<1.00	
3,800.00	3,728.88	3,807.23	3,729.08	11.98	15.38	-94.20	413.23	268.27	9.46	-11.52	20.99	0.451 Level 1<1.00	
3,900.00	3,827.12	3,907.27	3,826.74	12.10	15.63	-75.07	398.19	283.06	7.50	-15.66	23.16	0.324 Level 1<1.00	
3,915.78	3,842.41	3,922.96	3,841.67	12.11	15.67	-66.95	394.74	286.46	7.41	-16.78	24.19	0.306 Level 1<1.00	
4,000.00	3,922.72	4,005.89	3,917.99	12.21	15.85	-22.24	371.75	309.08	11.55	-7.43	18.98	0.608 Level 1<1.00	
4,100.00	4,012.89	4,102.50	3,999.93	12.35	16.06	-3.40	335.41	344.82	21.80	3.97	17.84	1.222 Level 2<1.50	
4,200.00	4,094.29	4,197.41	4,070.97	12.53	16.26	3.08	290.67	388.84	32.31	15.16	17.16	1.883 Level 3<2.00	
4,300.00	4,164.77	4,290.78	4,129.82	12.78	16.50	4.60	239.08	439.58	42.47	26.44	16.04	2.649	
4,400.00	4,222.27	4,386.97	4,179.40	13.18	16.88	7.60	180.35	497.36	49.80	33.92	15.88	3.136	
4,500.00	4,264.02	4,479.73	4,220.25	13.88	17.48	11.85	121.05	555.69	47.98	33.12	14.86	3.229	
4,600.00	4,287.83	4,572.35	4,247.20	14.93	18.34	14.58	57.95	617.76	42.96	28.61	14.36	2.993	
4,700.00	4,291.81	4,665.85	4,259.59	16.27	19.43	17.24	-8.04	682.67	33.78	19.22	14.56	2.320	
4,800.00	4,286.91	4,763.93	4,260.00	17.83	20.76	18.86	-77.96	751.44	28.43	12.90	15.53	1.830 Level 3<2.00	
4,900.00	4,282.68	4,863.86	4,259.49	19.55	22.27	20.38	-149.20	821.51	24.74	7.99	16.75	1.477 Level 2<1.50	
5,000.00	4,278.03	4,963.77	4,258.98	21.39	23.90	24.48	-220.43	891.57	20.94	2.70	18.24	1.148 Level 2<1.50	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 051H - Original Hole - rev2													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	4,272.91	5,063.67	4,258.46	23.32	25.63	32.01	-291.64	961.62	17.04	-3.12	20.16	0.845 Level 1<1.00		
5,195.80	4,270.35	5,159.44	4,257.97	25.23	27.36	39.14	-359.92	1,028.78	15.97	-6.48	22.45	0.711 Level 1<1.00		
5,200.00	4,270.88	5,163.64	4,257.95	25.32	27.44	38.15	-362.92	1,031.73	16.44	-5.94	22.38	0.735 Level 1<1.00		
5,300.00	4,269.14	5,263.62	4,257.43	27.37	29.32	45.93	-434.20	1,101.83	16.84	-8.61	25.46	0.662 Level 1<1.00		
5,400.00	4,267.50	5,363.57	4,256.92	29.47	31.26	54.65	-505.46	1,171.92	18.29	-11.44	29.73	0.615 Level 1<1.00		
5,500.00	4,266.24	5,463.54	4,256.41	31.59	33.23	59.32	-576.73	1,242.02	19.27	-14.17	33.44	0.576 Level 1<1.00		
5,600.00	4,265.54	5,563.51	4,255.89	33.69	35.25	55.11	-647.99	1,312.12	16.86	-16.19	33.05	0.510 Level 1<1.00		
5,700.00	4,265.03	5,663.45	4,255.38	35.80	37.30	47.81	-719.25	1,382.20	14.38	-17.58	31.95	0.450 Level 1<1.00		
5,800.00	4,264.29	5,763.39	4,254.86	37.92	39.37	36.73	-790.50	1,452.28	11.77	-18.84	30.61	0.384 Level 1<1.00		
5,900.00	4,262.92	5,863.32	4,254.35	40.06	41.47	21.76	-861.74	1,522.35	9.23	-20.87	30.10	0.307 Level 1<1.00		
6,000.00	4,261.19	5,963.29	4,253.84	42.23	43.58	10.19	-933.01	1,592.45	7.47	-23.53	31.00	0.241 Level 1<1.00		
6,100.00	4,258.65	6,063.26	4,253.32	44.43	45.71	8.63	-1,004.29	1,662.56	5.39	-27.04	32.43	0.166 Level 1<1.00		
6,200.00	4,254.79	6,163.20	4,252.81	46.64	47.86	40.18	-1,075.53	1,732.64	2.60	-33.83	36.43	0.071 Level 1<1.00		
6,220.61	4,254.10	6,183.80	4,252.70	47.10	48.30	55.28	-1,090.22	1,747.08	2.46	-38.84	41.30	0.060 Level 1<1.00, SF		
6,300.00	4,253.10	6,263.17	4,252.29	48.88	50.02	77.76	-1,146.80	1,802.73	3.83	-55.51	59.34	0.064 Level 1<1.00		
6,400.00	4,251.85	6,363.13	4,251.78	51.12	52.19	89.37	-1,218.07	1,872.83	6.35	-69.11	75.46	0.084 Level 1<1.00		
6,500.00	4,249.75	6,463.08	4,251.27	53.37	54.36	99.60	-1,289.33	1,942.92	9.11	-68.06	77.17	0.118 Level 1<1.00		
6,600.00	4,250.93	6,563.06	4,250.75	55.60	56.55	88.87	-1,360.60	2,013.02	9.00	-71.60	80.60	0.112 Level 1<1.00		
6,642.23	4,251.77	6,605.28	4,250.53	56.55	57.48	82.03	-1,390.70	2,042.63	8.92	-65.57	74.49	0.120 Level 1<1.00		
6,700.00	4,252.95	6,663.03	4,250.24	57.84	58.75	72.78	-1,431.87	2,083.12	9.18	-56.11	65.29	0.141 Level 1<1.00		
6,800.00	4,253.86	6,763.02	4,249.72	60.07	60.95	64.34	-1,503.16	2,153.24	9.55	-50.29	59.84	0.160 Level 1<1.00		
6,900.00	4,253.65	6,863.02	4,249.21	62.32	63.16	62.30	-1,574.45	2,223.36	9.56	-50.73	60.29	0.159 Level 1<1.00		
6,998.85	4,253.92	6,961.86	4,248.70	64.53	65.34	56.42	-1,644.92	2,292.67	9.44	-48.54	57.98	0.163 Level 1<1.00		
7,000.00	4,253.54	6,963.01	4,248.70	64.56	65.37	58.65	-1,645.74	2,293.48	9.31	-50.27	59.57	0.156 Level 1<1.00		
7,100.00	4,255.32	7,062.98	4,248.18	66.80	67.59	45.44	-1,717.01	2,363.58	10.18	-43.96	54.14	0.188 Level 1<1.00		
7,200.00	4,257.08	7,162.95	4,247.67	69.06	69.81	41.98	-1,788.28	2,433.68	12.66	-42.13	54.79	0.231 Level 1<1.00		
7,300.00	4,258.85	7,262.87	4,247.15	71.34	72.03	44.78	-1,859.52	2,503.74	16.48	-41.86	58.34	0.283 Level 1<1.00		
7,400.00	4,259.14	7,362.81	4,246.64	73.62	74.26	49.04	-1,930.77	2,573.83	19.08	-43.71	62.79	0.304 Level 1<1.00		
7,500.00	4,257.22	7,462.80	4,246.13	75.88	76.50	53.42	-2,002.05	2,643.94	18.62	-48.77	67.39	0.276 Level 1<1.00		
7,518.16	4,256.83	7,480.96	4,246.03	76.30	76.90	54.51	-2,015.00	2,656.67	18.60	-49.99	68.59	0.271 Level 1<1.00		
7,600.00	4,254.92	7,562.77	4,245.61	78.16	78.73	61.06	-2,073.32	2,714.04	19.26	-56.92	76.18	0.253 Level 1<1.00		
7,700.00	4,253.14	7,662.74	4,245.10	80.41	80.97	63.68	-2,144.60	2,784.14	18.14	-62.59	80.73	0.225 Level 1<1.00		
7,800.00	4,250.91	7,762.67	4,244.58	82.64	83.21	63.90	-2,215.84	2,854.21	14.37	-67.85	82.22	0.175 Level 1<1.00		
7,884.00	4,250.24	7,846.65	4,244.15	84.53	85.10	61.88	-2,275.71	2,913.10	12.91	-68.35	81.26	0.159 Level 1<1.00		
7,900.00	4,250.78	7,862.65	4,244.07	84.89	85.46	59.99	-2,287.12	2,924.32	13.42	-66.34	79.76	0.168 Level 1<1.00		
8,000.00	4,251.64	7,962.64	4,243.56	87.16	87.70	55.23	-2,358.40	2,994.44	14.18	-63.31	77.48	0.183 Level 1<1.00		
8,100.00	4,251.12	8,062.64	4,243.04	89.43	89.95	56.67	-2,429.69	3,064.56	14.70	-66.04	80.74	0.182 Level 1<1.00		
8,200.00	4,249.44	8,162.62	4,242.53	91.71	92.20	62.60	-2,500.97	3,134.67	15.03	-74.45	89.47	0.168 Level 1<1.00		
8,300.00	4,247.27	8,262.60	4,242.01	93.98	94.46	70.02	-2,572.25	3,204.77	15.40	-87.06	102.46	0.150 Level 1<1.00		
8,400.00	4,248.88	8,362.57	4,241.50	96.24	96.71	60.86	-2,643.52	3,274.87	15.16	-76.52	91.69	0.165 Level 1<1.00		
8,418.82	4,249.26	8,381.38	4,241.40	96.66	97.13	58.78	-2,656.93	3,288.06	15.16	-74.18	89.34	0.170 Level 1<1.00		
8,500.00	4,250.57	8,462.53	4,240.98	98.50	98.96	51.10	-2,714.79	3,344.97	15.27	-68.35	83.62	0.183 Level 1<1.00		
8,600.00	4,251.11	8,562.52	4,240.47	100.77	101.22	47.97	-2,786.07	3,415.09	15.89	-67.06	82.96	0.192 Level 1<1.00		
8,700.00	4,251.43	8,662.47	4,239.96	103.06	103.48	52.04	-2,857.33	3,485.17	18.66	-70.13	88.79	0.210 Level 1<1.00		
8,800.00	4,252.12	8,762.39	4,239.44	105.36	105.74	55.84	-2,928.56	3,555.23	22.58	-72.97	95.55	0.236 Level 1<1.00		
8,900.00	4,253.58	8,862.32	4,238.93	107.66	108.00	55.83	-2,999.81	3,625.31	26.08	-72.02	98.10	0.266 Level 1<1.00		
9,000.00	4,254.44	8,962.30	4,238.41	109.94	110.26	54.81	-3,071.08	3,695.41	27.81	-71.66	99.47	0.280 Level 1<1.00		
9,090.59	4,255.31	9,052.87	4,237.95	111.98	112.31	50.96	-3,135.65	3,758.92	27.56	-69.32	96.87	0.284 Level 1<1.00		
9,100.00	4,255.39	9,062.27	4,237.90	112.20	112.52	50.10	-3,142.35	3,765.52	27.27	-68.75	96.02	0.284 Level 1<1.00		
9,200.00	4,256.48	9,162.25	4,237.39	114.46	114.78	46.57	-3,213.64	3,835.63	27.77	-67.03	94.80	0.293 Level 1<1.00		
9,300.00	4,257.37	9,262.24	4,236.87	116.73	117.05	44.21	-3,284.92	3,905.74	28.59	-66.19	94.78	0.302 Level 1<1.00		
9,400.00	4,257.99	9,362.23	4,236.36	119.01	119.31	41.85	-3,356.21	3,975.86	29.03	-65.63	94.66	0.307 Level 1<1.00		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 051H - Original Hole - rev2													Offset Site Error:	0.00 ft	
Survey Program:		0-MWD					Rule Assigned:							Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)				
9,500.00	4,258.43	9,462.21	4,235.84	121.29	121.58	42.45	-3,427.49	4,045.97	30.62	-66.52	97.14	0.315 Level 1<1.00			
9,600.00	4,258.15	9,562.18	4,235.33	123.55	123.84	39.71	-3,498.76	4,116.07	29.67	-66.96	96.63	0.307 Level 1<1.00			
9,700.00	4,257.02	9,662.12	4,234.82	125.79	126.11	34.93	-3,570.01	4,186.15	27.08	-68.05	95.13	0.285 Level 1<1.00			
9,800.00	4,254.59	9,762.05	4,234.30	128.04	128.38	31.44	-3,641.25	4,256.22	23.77	-70.80	94.57	0.251 Level 1<1.00			
9,900.00	4,251.37	9,862.00	4,233.79	130.30	130.65	30.77	-3,712.50	4,326.30	20.46	-75.16	95.62	0.214 Level 1<1.00			
10,000.00	4,250.99	9,961.99	4,233.27	132.57	132.92	27.20	-3,783.79	4,396.42	19.92	-75.95	95.87	0.208 Level 1<1.00			
10,093.62	4,250.67	10,055.61	4,232.79	134.70	135.04	26.10	-3,850.53	4,462.07	19.91	-77.00	96.91	0.205 Level 1<1.00			
10,100.00	4,250.57	10,061.98	4,232.76	134.84	135.19	25.59	-3,855.08	4,466.54	19.75	-77.14	96.89	0.204 Level 1<1.00			
10,200.00	4,249.52	10,161.97	4,232.25	137.13	137.46	30.29	-3,926.36	4,536.65	20.01	-80.24	100.25	0.200 Level 1<1.00			
10,300.00	4,248.15	10,261.94	4,231.73	139.42	139.73	36.17	-3,997.63	4,606.75	20.33	-84.65	104.98	0.194 Level 1<1.00			
10,400.00	4,249.26	10,361.92	4,231.22	141.69	142.00	31.48	-4,068.91	4,676.86	21.16	-83.11	104.27	0.203 Level 1<1.00			
10,500.00	4,249.64	10,461.91	4,230.70	143.97	144.27	29.87	-4,140.20	4,746.98	21.84	-83.22	105.06	0.208 Level 1<1.00			
10,600.00	4,249.32	10,561.90	4,230.19	146.26	146.54	33.11	-4,211.48	4,817.09	22.85	-85.61	108.45	0.211 Level 1<1.00			
10,700.00	4,247.66	10,661.86	4,229.68	148.56	148.82	39.99	-4,282.74	4,887.18	23.48	-91.17	114.66	0.205 Level 1<1.00			
10,800.00	4,246.97	10,761.83	4,229.16	150.85	151.09	42.95	-4,354.02	4,957.29	24.32	-94.66	118.99	0.204 Level 1<1.00			
10,900.00	4,247.94	10,861.82	4,228.65	153.13	153.36	41.12	-4,425.31	5,027.40	25.61	-93.70	119.31	0.215 Level 1<1.00			
11,000.00	4,247.45	10,961.81	4,228.13	155.42	155.64	43.06	-4,496.59	5,097.52	26.44	-96.48	122.92	0.215 Level 1<1.00			
11,100.00	4,245.49	11,061.78	4,227.62	157.72	157.91	48.52	-4,567.86	5,167.61	26.99	-103.81	130.80	0.206 Level 1<1.00			
11,200.00	4,245.51	11,161.77	4,227.11	160.01	160.19	48.38	-4,639.14	5,237.73	27.70	-105.01	132.71	0.209 Level 1<1.00			
11,300.00	4,246.43	11,261.75	4,226.59	162.29	162.46	46.75	-4,710.43	5,307.84	28.96	-103.71	132.67	0.218 Level 1<1.00			
11,400.00	4,246.03	11,361.74	4,226.08	164.58	164.74	48.45	-4,781.71	5,377.95	30.09	-106.63	136.72	0.220 Level 1<1.00			
11,500.00	4,243.94	11,461.73	4,225.56	166.86	167.01	50.13	-4,852.99	5,448.06	28.65	-111.83	140.49	0.204 Level 1<1.00			
11,600.00	4,240.71	11,561.69	4,225.05	169.14	169.29	54.16	-4,924.26	5,518.16	26.74	-121.90	148.64	0.180 Level 1<1.00			
11,700.00	4,237.27	11,661.64	4,224.53	171.42	171.56	60.48	-4,995.52	5,588.25	25.84	-136.76	162.59	0.159 Level 1<1.00			
11,800.00	4,235.81	11,761.61	4,224.02	173.68	173.84	59.92	-5,066.79	5,658.35	23.52	-139.70	163.22	0.144 Level 1<1.00			
11,900.00	4,234.11	11,861.59	4,223.51	175.95	176.12	60.62	-5,138.07	5,728.46	21.59	-144.49	166.09	0.130 Level 1<1.00			
12,000.00	4,232.25	11,961.56	4,222.99	178.22	178.39	61.45	-5,209.34	5,798.56	19.37	-150.31	169.68	0.114 Level 1<1.00, ES			
12,100.00	4,232.51	12,061.51	4,222.48	180.47	180.67	54.32	-5,280.59	5,868.65	17.20	-139.17	156.37	0.110 Level 1<1.00			
12,200.00	4,232.25	12,161.47	4,221.96	182.73	182.95	47.15	-5,351.86	5,938.74	15.13	-131.47	146.60	0.103 Level 1<1.00			
12,300.00	4,230.79	12,261.34	4,221.45	184.97	185.22	33.61	-5,423.06	6,008.77	11.22	-124.16	135.38	0.083 Level 1<1.00			
12,388.07	4,228.76	12,349.05	4,221.00	186.44	187.22	8.49	-5,485.59	6,070.27	7.85	-117.79	125.64	0.062 Level 1<1.00			
12,400.00	4,228.39	12,349.05	4,221.00	186.64	187.22	8.00	-5,485.59	6,070.27	14.22	-26.09	40.32	0.353 Level 1<1.00			
12,451.00	4,227.17	12,349.05	4,221.00	187.46	187.22	8.00	-5,485.59	6,070.27	63.40	24.47	38.93	1.629 Level 3<2.00			

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	48.90	13.12	15.04	19.95				
100.00	100.00	100.00	100.00	0.13	0.13	55.99	13.12	15.04	19.84	19.57	0.27	73.745	
200.00	200.00	200.00	200.00	0.31	0.49	57.41	13.12	15.04	19.53	18.72	0.81	24.192	
300.00	299.99	299.99	299.99	0.49	0.85	59.86	13.12	15.04	19.02	17.68	1.35	14.142	
400.00	399.98	399.98	399.98	0.67	1.21	63.52	13.12	15.04	18.38	16.50	1.88	9.760	
500.00	499.97	499.97	499.97	1.01	1.57	74.05	13.12	15.04	17.76	15.19	2.57	6.902	
600.00	599.95	599.95	599.95	1.36	1.93	79.65	13.12	15.04	17.35	14.06	3.29	5.272	
700.00	699.94	699.94	699.94	1.72	2.29	85.02	13.12	15.04	17.10	13.10	4.01	4.267	
747.99	747.93	747.93	747.93	1.90	2.46	90.00	13.12	15.04	17.07	12.72	4.35	3.922 CC	
800.00	799.93	799.93	799.93	2.08	2.64	95.63	13.12	15.04	17.15	12.43	4.73	3.630	
900.00	899.92	899.92	899.92	2.44	3.00	100.13	13.12	15.04	17.27	11.83	5.44	3.174	
1,000.00	999.91	999.91	999.91	2.80	3.36	119.44	13.12	15.04	17.64	11.48	6.16	2.865	
1,100.00	1,099.91	1,099.91	1,099.91	3.15	3.72	128.33	13.12	15.04	18.18	11.30	6.87	2.645	
1,200.00	1,199.90	1,199.90	1,199.90	3.51	4.08	128.77	13.12	15.04	18.62	11.04	7.59	2.454	
1,300.00	1,299.90	1,299.90	1,299.90	3.87	4.44	133.46	13.12	15.04	19.02	10.72	8.30	2.291	
1,400.00	1,399.90	1,399.90	1,399.90	4.22	4.79	158.96	13.12	15.04	19.46	10.44	9.02	2.158	
1,500.00	1,499.90	1,499.88	1,499.88	4.58	5.15	168.46	13.12	15.04	19.95	10.22	9.73	2.050	
1,600.00	1,599.88	1,599.25	1,599.20	4.93	5.51	57.63	15.27	16.72	21.06	10.64	10.42	2.020	
1,700.00	1,699.64	1,698.53	1,698.16	5.28	5.86	51.79	21.49	21.57	22.06	10.95	11.10	1.986 Level 3<2.00	
1,800.00	1,798.80	1,797.79	1,796.55	5.64	6.22	51.39	31.75	29.58	22.47	10.70	11.77	1.909 Level 3<2.00	
1,900.00	1,897.24	1,897.03	1,894.11	6.02	6.59	48.67	46.01	40.73	23.00	10.58	12.42	1.852 Level 3<2.00	
2,000.00	1,994.74	1,996.21	1,990.54	6.41	6.97	44.60	64.25	54.96	23.48	10.44	13.04	1.801 Level 3<2.00	
2,100.00	2,090.87	2,095.32	2,085.59	6.84	7.39	39.20	86.38	72.25	23.19	9.60	13.59	1.707 Level 3<2.00	
2,148.67	2,137.11	2,143.55	2,131.27	7.06	7.60	37.93	98.55	81.75	23.03	9.20	13.83	1.665 Level 3<2.00	
2,200.00	2,185.46	2,194.49	2,179.10	7.30	7.84	36.97	112.37	92.54	23.05	8.96	14.09	1.636 Level 3<2.00	
2,300.00	2,279.17	2,294.48	2,272.67	7.80	8.33	34.34	140.15	114.24	22.77	7.97	14.80	1.538 Level 3<2.00	
2,400.00	2,372.60	2,394.48	2,366.25	8.33	8.84	33.28	167.93	135.93	21.77	6.27	15.50	1.405 Level 2<1.50	
2,424.09	2,395.13	2,418.56	2,388.79	8.46	8.97	33.75	174.62	141.15	21.71	6.03	15.68	1.384 Level 2<1.50, ES	
2,500.00	2,466.33	2,494.47	2,459.83	8.87	9.38	36.55	195.71	157.62	22.45	6.09	16.36	1.372 Level 2<1.50, SF	
2,600.00	2,560.50	2,594.45	2,553.38	9.35	9.93	37.78	223.48	179.31	24.70	7.49	17.21	1.435 Level 2<1.50	
2,700.00	2,654.92	2,694.40	2,646.93	9.65	10.50	36.58	251.25	200.99	27.60	9.74	17.85	1.546 Level 3<2.00	
2,800.00	2,749.39	2,794.36	2,740.47	9.91	11.08	37.42	279.01	222.67	30.55	12.11	18.44	1.657 Level 3<2.00	
2,900.00	2,843.98	2,894.28	2,833.98	10.20	11.67	39.41	306.77	244.35	34.40	15.28	19.12	1.799 Level 3<2.00	
3,000.00	2,939.26	2,994.03	2,927.33	10.50	12.27	45.59	334.48	265.99	41.37	21.50	19.87	2.082	
3,100.00	3,035.26	3,093.46	3,020.37	10.80	12.87	51.00	362.10	287.56	52.01	31.36	20.65	2.518	
3,200.00	3,132.17	3,192.39	3,112.96	11.08	13.48	53.73	389.59	309.02	66.50	45.17	21.33	3.117	
3,300.00	3,230.24	3,290.64	3,204.90	11.33	14.09	50.58	416.88	330.33	84.56	62.78	21.79	3.882	
3,400.00	3,329.41	3,387.69	3,295.72	11.53	14.69	49.42	443.84	351.39	107.26	85.21	22.06	4.863	
3,500.00	3,429.20	3,483.01	3,384.92	11.67	15.29	61.13	470.32	372.06	135.82	113.51	22.31	6.088	
3,600.00	3,529.18	3,576.76	3,472.65	11.78	15.89	130.78	496.37	392.40	168.85	146.26	22.59	7.476	
3,700.00	3,629.18	3,670.13	3,560.04	11.88	16.48	-103.14	522.31	412.66	203.25	180.31	22.94	8.861	
3,800.00	3,728.88	3,763.19	3,647.12	11.98	17.08	-77.59	548.16	432.84	236.56	213.31	23.25	10.174	
3,900.00	3,827.12	3,854.95	3,732.99	12.10	17.67	-80.79	573.65	452.75	268.50	244.93	23.57	11.393	
4,000.00	3,922.72	3,943.91	3,816.24	12.21	18.24	-85.80	598.36	472.05	302.08	278.05	24.03	12.569	
4,100.00	4,012.89	4,027.28	3,894.27	12.35	18.78	-89.63	621.52	490.14	339.41	314.61	24.80	13.688	
4,200.00	4,094.29	4,101.87	3,964.07	12.53	19.26	-92.80	642.24	506.32	383.19	357.20	25.99	14.742	
4,300.00	4,164.77	4,165.31	4,023.44	12.78	19.67	-94.63	659.87	520.08	436.34	408.77	27.57	15.826	
4,400.00	4,222.27	4,216.26	4,071.12	13.18	20.01	-91.86	674.02	531.13	498.10	468.78	29.33	16.985	
4,500.00	4,264.02	4,285.82	4,136.24	13.88	20.46	-91.05	691.88	547.74	566.54	535.11	31.42	18.030	
4,600.00	4,287.83	4,450.52	4,287.13	14.93	21.50	-98.32	710.61	609.52	638.86	605.24	33.62	19.004	
4,700.00	4,291.81	4,863.01	4,577.96	16.27	23.85	-116.59	608.65	870.52	696.58	664.10	32.49	21.442	
4,800.00	4,286.91	5,293.87	4,678.00	17.83	27.33	-123.10	346.93	1,186.45	715.30	684.21	31.08	23.013	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4,900.00	4,282.68	5,393.80	4,677.49	19.55	28.44	-123.35	275.69	1,256.53	717.81	684.02	33.79	21.246	
5,000.00	4,278.03	5,493.71	4,676.98	21.39	29.69	-123.62	204.46	1,326.59	720.04	683.51	36.53	19.711	
5,100.00	4,272.91	5,593.60	4,676.46	23.32	31.09	-123.96	133.25	1,396.64	722.31	682.81	39.50	18.285	
5,200.00	4,270.88	5,693.58	4,675.95	25.32	32.59	-124.13	61.97	1,466.75	722.23	679.61	42.62	16.946	
5,300.00	4,269.14	5,793.55	4,675.44	27.37	34.19	-124.31	-9.30	1,536.85	721.31	675.50	45.81	15.746	
5,400.00	4,267.50	5,893.51	4,674.92	29.47	35.87	-124.52	-80.55	1,606.95	719.62	670.59	49.03	14.677	
5,477.98	4,266.50	5,971.47	4,674.52	31.12	37.23	-124.57	-136.14	1,661.62	719.06	667.45	51.61	13.932	
5,500.00	4,266.24	5,993.48	4,674.41	31.59	37.63	-124.60	-151.82	1,677.05	718.70	666.36	52.33	13.733	
5,600.00	4,265.54	6,093.44	4,673.90	33.69	39.44	-124.50	-223.09	1,747.15	721.06	665.25	55.82	12.918	
5,700.00	4,265.03	6,193.39	4,673.39	35.80	41.30	-124.36	-294.34	1,817.24	723.68	664.33	59.36	12.192	
5,800.00	4,264.29	6,293.32	4,672.87	37.92	43.20	-124.21	-365.59	1,887.31	726.80	663.86	62.94	11.548	
5,900.00	4,262.92	6,393.25	4,672.36	40.06	45.15	-124.09	-436.83	1,957.39	730.27	663.76	66.52	10.979	
6,000.00	4,261.19	6,493.22	4,671.85	42.23	47.12	-124.08	-508.09	2,027.49	732.70	662.64	70.06	10.459	
6,100.00	4,258.65	6,593.20	4,671.33	44.43	49.13	-124.19	-579.37	2,097.60	734.26	660.75	73.52	9.988	
6,200.00	4,254.79	6,693.14	4,670.82	46.64	51.15	-124.46	-650.61	2,167.68	735.43	658.58	76.85	9.570	
6,300.00	4,253.10	6,793.10	4,670.31	48.88	53.20	-124.63	-721.88	2,237.78	734.40	654.16	80.25	9.152	
6,400.00	4,251.85	6,893.07	4,669.79	51.12	55.27	-124.81	-793.14	2,307.88	732.68	649.04	83.64	8.760	
6,500.00	4,249.75	6,993.02	4,669.28	53.37	57.36	-125.01	-864.40	2,377.97	731.43	644.47	86.96	8.411	
6,600.00	4,250.93	7,093.00	4,668.77	55.60	59.46	-124.89	-935.68	2,448.08	730.45	639.84	90.61	8.061	
6,700.00	4,252.95	7,192.96	4,668.25	57.84	61.58	-124.71	-1,006.94	2,518.18	729.20	634.86	94.34	7.729	
6,800.00	4,253.86	7,292.95	4,667.74	60.07	63.71	-124.62	-1,078.22	2,588.30	728.52	630.52	98.00	7.434	
6,861.46	4,253.88	7,354.41	4,667.43	61.45	65.02	-124.59	-1,122.04	2,631.39	728.42	628.20	100.22	7.268	
6,900.00	4,253.65	7,392.95	4,667.23	62.32	65.85	-124.59	-1,149.51	2,658.42	728.47	626.88	101.59	7.171	
7,000.00	4,253.54	7,492.95	4,666.71	64.56	67.99	-124.54	-1,220.80	2,728.54	728.68	623.48	105.20	6.927	
7,100.00	4,255.32	7,592.92	4,666.20	66.80	70.15	-124.35	-1,292.07	2,798.65	727.95	618.98	108.97	6.680	
7,200.00	4,257.08	7,692.88	4,665.69	69.06	72.32	-124.26	-1,363.34	2,868.75	725.67	613.03	112.64	6.442	
7,300.00	4,258.85	7,792.81	4,665.17	71.34	74.49	-124.25	-1,434.57	2,938.82	721.78	605.59	116.19	6.212	
7,398.62	4,258.98	7,891.39	4,664.67	73.59	76.64	-124.33	-1,504.85	3,007.95	719.43	599.85	119.58	6.016	
7,400.00	4,259.14	7,892.75	4,664.66	73.62	76.67	-124.34	-1,505.82	3,008.90	719.03	599.41	119.62	6.011	
7,500.00	4,257.22	7,992.74	4,664.15	75.88	78.85	-124.46	-1,577.11	3,079.02	719.37	596.39	122.98	5.849	
7,600.00	4,254.92	8,092.70	4,663.64	78.16	81.05	-124.68	-1,648.37	3,149.12	718.82	592.62	126.19	5.696	
7,624.37	4,254.37	8,117.06	4,663.51	78.71	81.58	-124.71	-1,665.73	3,166.20	718.69	591.72	126.97	5.660	
7,700.00	4,253.14	8,192.68	4,663.12	80.41	83.24	-124.70	-1,719.64	3,219.22	720.04	590.42	129.61	5.555	
7,800.00	4,250.91	8,292.60	4,662.61	82.64	85.44	-124.65	-1,790.88	3,289.30	723.78	590.59	133.19	5.434	
7,900.00	4,250.78	8,392.59	4,662.10	84.89	87.65	-124.58	-1,862.16	3,359.41	724.62	587.79	136.82	5.296	
8,000.00	4,251.64	8,492.58	4,661.58	87.16	89.86	-124.50	-1,933.44	3,429.52	723.82	583.36	140.46	5.153	
8,100.00	4,251.12	8,592.57	4,661.07	89.43	92.07	-124.53	-2,004.73	3,499.65	723.30	579.42	143.89	5.027	
8,200.00	4,249.44	8,692.56	4,660.56	91.71	94.29	-124.66	-2,076.01	3,569.76	723.10	575.96	147.13	4.915	
8,266.75	4,248.35	8,759.30	4,660.21	93.22	95.77	-124.73	-2,123.59	3,616.56	723.05	573.75	149.30	4.843	
8,300.00	4,247.27	8,792.54	4,660.04	93.98	96.51	-124.81	-2,147.28	3,639.87	723.11	572.82	150.29	4.811	
8,400.00	4,248.88	8,892.50	4,659.53	96.24	98.73	-124.62	-2,218.55	3,709.97	722.91	568.81	154.10	4.691	
8,500.00	4,250.57	8,992.47	4,659.02	98.50	100.96	-124.41	-2,289.82	3,780.07	722.79	564.84	157.95	4.576	
8,600.00	4,251.11	9,092.46	4,658.50	100.77	103.19	-124.34	-2,361.10	3,850.19	722.26	560.73	161.53	4.471	
8,700.00	4,251.43	9,192.41	4,657.99	103.06	105.42	-124.43	-2,432.36	3,920.28	719.39	554.62	164.78	4.366	
8,800.00	4,252.12	9,292.32	4,657.48	105.36	107.65	-124.51	-2,503.58	3,990.34	715.45	547.52	167.93	4.260	
8,900.00	4,253.58	9,392.26	4,656.96	107.66	109.89	-124.52	-2,574.83	4,060.42	711.94	540.66	171.28	4.157	
8,987.76	4,254.40	9,480.00	4,656.51	109.66	111.85	-124.47	-2,637.38	4,121.95	710.50	536.17	174.33	4.076	
9,000.00	4,254.44	9,492.23	4,656.45	109.94	112.13	-124.48	-2,646.10	4,130.53	710.22	535.49	174.73	4.065	
9,100.00	4,255.39	9,592.20	4,655.94	112.20	114.37	-124.30	-2,717.37	4,200.63	710.89	532.35	178.53	3.982	
9,200.00	4,256.48	9,692.19	4,655.42	114.46	116.61	-124.15	-2,788.65	4,270.74	710.61	528.38	182.23	3.899	
9,300.00	4,257.37	9,792.18	4,654.91	116.73	118.85	-124.05	-2,859.93	4,340.86	710.02	524.17	185.85	3.820	
9,400.00	4,257.99	9,892.17	4,654.40	119.01	121.10	-123.95	-2,931.22	4,410.98	709.86	520.40	189.46	3.747	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - rev2											Offset Site Error:	0.00 ft
Survey Program: 0-MWD											Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
9,500.00	4,258.43	9,992.15	4,653.88	121.29	123.34	-123.94	-3,002.49	4,481.09	708.25	515.45	192.80	3.673
9,535.46	4,258.46	10,027.61	4,653.70	122.09	124.14	-123.94	-3,027.77	4,505.96	707.94	513.95	193.99	3.649
9,600.00	4,258.15	10,092.12	4,653.37	123.55	125.59	-123.85	-3,073.76	4,551.19	709.54	513.13	196.41	3.612
9,700.00	4,257.02	10,192.06	4,652.86	125.79	127.84	-123.72	-3,145.01	4,621.27	712.76	512.64	200.12	3.562
9,800.00	4,254.59	10,291.99	4,652.35	128.04	130.09	-123.69	-3,216.25	4,691.35	716.42	512.86	203.56	3.519
9,900.00	4,251.37	10,391.93	4,651.83	130.30	132.34	-123.81	-3,287.50	4,761.43	719.52	512.82	206.70	3.481
10,000.00	4,250.99	10,491.92	4,651.32	132.57	134.60	-123.75	-3,358.78	4,831.55	720.58	510.35	210.24	3.428
10,100.00	4,250.57	10,591.92	4,650.81	134.84	136.85	-123.72	-3,430.07	4,901.67	721.01	507.36	213.65	3.375
10,200.00	4,249.52	10,691.90	4,650.29	137.13	139.11	-123.85	-3,501.35	4,971.79	720.01	503.38	216.62	3.324
10,300.00	4,248.15	10,791.87	4,649.78	139.42	141.36	-123.96	-3,572.62	5,041.89	718.91	499.46	219.46	3.276
10,396.05	4,248.64	10,887.92	4,649.29	141.60	143.53	-123.88	-3,641.09	5,109.24	718.66	495.83	222.83	3.225
10,400.00	4,249.26	10,891.85	4,649.27	141.69	143.62	-123.81	-3,643.90	5,112.00	718.80	495.63	223.17	3.221
10,500.00	4,249.64	10,991.85	4,648.75	143.97	145.88	-123.75	-3,715.18	5,182.12	718.45	491.83	226.62	3.170
10,600.00	4,249.32	11,091.83	4,648.24	146.26	148.14	-123.82	-3,786.46	5,252.24	717.00	487.36	229.64	3.122
10,700.00	4,247.66	11,191.79	4,647.73	148.56	150.40	-124.03	-3,857.72	5,322.33	715.48	483.27	232.21	3.081
10,800.00	4,246.97	11,291.77	4,647.21	150.85	152.66	-124.07	-3,929.00	5,392.44	714.36	479.24	235.12	3.038
10,900.00	4,247.94	11,391.76	4,646.70	153.13	154.92	-123.99	-4,000.28	5,462.55	713.31	474.75	238.56	2.990
11,000.00	4,247.45	11,491.75	4,646.19	155.42	157.18	-124.06	-4,071.56	5,532.67	712.29	470.77	241.52	2.949
11,100.00	4,245.49	11,591.71	4,645.67	157.72	159.45	-124.26	-4,142.83	5,602.77	711.31	467.33	243.97	2.915
11,200.00	4,245.51	11,691.70	4,645.16	160.01	161.71	-124.22	-4,214.11	5,672.89	710.61	463.49	247.13	2.875
11,300.00	4,246.43	11,791.69	4,644.65	162.29	163.97	-124.14	-4,285.39	5,743.00	709.49	459.01	250.48	2.833
11,400.00	4,246.03	11,891.68	4,644.13	164.58	166.24	-124.21	-4,356.68	5,813.12	708.25	454.93	253.33	2.796
11,411.68	4,245.87	11,903.36	4,644.07	164.84	166.50	-124.21	-4,365.00	5,821.31	708.24	454.59	253.65	2.792
11,500.00	4,243.94	11,991.66	4,643.62	166.86	168.51	-124.27	-4,427.95	5,883.23	709.58	453.41	256.17	2.770
11,600.00	4,240.71	12,091.62	4,643.11	169.14	170.77	-124.45	-4,499.22	5,953.33	711.38	452.67	258.70	2.750
11,700.00	4,237.27	12,191.57	4,642.59	171.42	173.04	-124.67	-4,570.47	6,023.42	712.38	451.45	260.92	2.730
11,800.00	4,235.81	12,291.54	4,642.08	173.68	175.30	-124.64	-4,641.74	6,093.52	714.67	450.48	264.19	2.705
11,900.00	4,234.11	12,391.52	4,641.57	175.95	177.57	-124.64	-4,713.02	6,163.63	716.61	449.34	267.27	2.681
12,000.00	4,232.25	12,491.50	4,641.05	178.22	179.84	-124.66	-4,784.29	6,233.74	718.86	448.50	270.36	2.659
12,100.00	4,232.51	12,591.45	4,640.54	180.47	182.11	-124.48	-4,855.54	6,303.83	720.93	446.72	274.21	2.629
12,200.00	4,232.25	12,691.40	4,640.03	182.73	184.38	-124.33	-4,926.80	6,373.92	723.16	445.25	277.91	2.602
12,300.00	4,230.79	12,791.28	4,639.52	184.97	186.64	-124.15	-4,998.00	6,443.96	727.73	445.96	281.78	2.583
12,400.00	4,228.39	12,891.09	4,639.00	186.64	188.91	-124.02	-5,069.16	6,513.95	733.63	448.40	285.23	2.572
12,451.00	4,227.17	12,941.99	4,638.74	187.46	190.07	-123.95	-5,105.45	6,549.64	736.65	449.69	286.95	2.567

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 415-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	48.90	13.12	15.04	19.95				
100.00	100.00	100.01	100.01	0.13	0.17	55.75	13.16	14.95	19.81	19.50	0.30	65.339	
200.00	200.00	200.03	200.03	0.31	0.34	56.41	13.28	14.70	19.38	18.72	0.65	29.752	
300.00	299.99	300.04	300.04	0.49	0.51	57.58	13.49	14.29	18.66	17.66	1.00	18.674	
400.00	399.98	400.05	400.04	0.67	0.67	59.38	13.77	13.71	17.67	16.33	1.35	13.118	
500.00	499.97	500.05	500.04	1.01	1.00	66.93	14.29	12.88	16.54	14.53	2.01	8.231	
600.00	599.95	600.03	600.02	1.36	1.36	68.56	15.03	11.88	15.44	12.71	2.73	5.663	
700.00	699.94	700.02	700.00	1.72	1.72	69.44	15.89	10.83	14.40	10.96	3.44	4.181	
800.00	799.93	800.01	799.97	2.08	2.08	76.05	16.76	9.92	13.63	9.47	4.16	3.277	
900.00	899.92	900.02	899.98	2.44	2.44	77.14	17.42	8.99	12.81	7.93	4.88	2.627	
993.37	993.28	993.33	993.29	2.77	2.77	93.98	17.71	8.41	12.36	6.82	5.54	2.231 CC	
1,000.00	999.91	999.95	999.91	2.80	2.79	95.71	17.68	8.42	12.38	6.79	5.59	2.216 ES	
1,100.00	1,099.91	1,099.82	1,099.75	3.15	3.12	113.87	16.30	9.63	13.27	6.99	6.28	2.114 SF	
1,200.00	1,199.90	1,199.74	1,199.64	3.51	3.46	125.01	14.14	11.53	15.15	8.19	6.96	2.176	
1,300.00	1,299.90	1,299.69	1,299.54	3.87	3.79	138.24	11.71	13.38	17.47	9.82	7.66	2.283	
1,400.00	1,399.90	1,399.52	1,399.33	4.22	4.13	167.91	9.93	15.50	20.33	11.98	8.35	2.435	
1,500.00	1,499.90	1,499.38	1,499.13	4.58	4.48	175.43	10.02	18.62	23.88	14.84	9.04	2.641	
1,600.00	1,599.88	1,599.35	1,599.01	4.93	4.82	63.55	12.46	22.24	26.75	17.01	9.74	2.746	
1,700.00	1,699.64	1,698.93	1,698.30	5.28	5.17	58.60	18.41	26.76	27.34	16.90	10.43	2.620	
1,744.14	1,743.49	1,742.63	1,741.73	5.44	5.33	58.56	22.34	29.57	27.20	16.47	10.74	2.534	
1,800.00	1,798.80	1,797.85	1,796.42	5.64	5.53	58.93	28.28	34.36	27.38	16.27	11.11	2.464	
1,900.00	1,897.24	1,896.66	1,893.55	6.02	5.90	57.75	41.66	46.44	28.92	17.14	11.78	2.454	
2,000.00	1,994.74	1,995.86	1,989.95	6.41	6.29	55.87	58.82	62.30	30.94	18.45	12.49	2.477	
2,100.00	2,090.87	2,094.97	2,084.86	6.84	6.72	52.76	80.18	81.18	31.99	18.78	13.20	2.423	
2,200.00	2,185.46	2,194.50	2,178.28	7.30	7.19	49.85	107.22	102.28	32.26	18.34	13.92	2.318	
2,300.00	2,279.17	2,294.02	2,270.27	7.80	7.70	42.47	137.95	124.56	32.86	18.32	14.55	2.259	
2,400.00	2,372.60	2,393.76	2,362.05	8.33	8.26	35.98	169.45	147.65	34.23	19.07	15.17	2.257	
2,500.00	2,466.33	2,493.82	2,454.26	8.87	8.84	34.82	200.40	171.11	37.73	21.79	15.95	2.366	
2,600.00	2,560.50	2,594.08	2,547.07	9.35	9.43	33.37	230.57	194.12	42.11	25.39	16.72	2.518	
2,700.00	2,654.92	2,640.00	2,589.67	9.65	9.71	31.89	244.25	204.43	71.36	61.22	10.15	7.032	
2,800.00	2,749.39	2,640.00	2,589.67	9.91	9.71	32.17	244.25	204.43	162.22	154.04	8.18	19.830	
2,900.00	2,843.98	2,640.00	2,589.67	10.20	9.71	32.97	244.25	204.43	260.02	251.80	8.23	31.613	
3,000.00	2,939.26	2,640.00	2,589.67	10.50	9.71	33.28	244.25	204.43	359.36	350.97	8.39	42.831	
3,100.00	3,035.26	2,640.00	2,589.67	10.80	9.71	31.05	244.25	204.43	459.21	450.67	8.54	53.757	
3,200.00	3,132.17	2,640.00	2,589.67	11.08	9.71	-179.30	244.25	204.43	559.20	550.54	8.66	64.546	
3,300.00	3,230.24	2,640.00	2,589.67	11.33	9.71	178.67	244.25	204.43	659.08	650.33	8.75	75.297	
3,400.00	3,329.41	2,640.00	2,589.67	11.53	9.71	-175.35	244.25	204.43	758.54	749.72	8.82	86.031	
3,500.00	3,429.20	2,640.00	2,589.67	11.67	9.71	-158.45	244.25	204.43	857.37	848.49	8.88	96.596	
3,600.00	3,529.18	2,640.00	2,589.67	11.78	9.71	-85.75	244.25	204.43	955.65	946.71	8.94	106.853	
3,700.00	3,629.18	2,640.00	2,589.67	11.88	9.71	37.22	244.25	204.43	1,054.05	1,045.02	9.03	116.679	
3,800.00	3,728.88	2,640.00	2,589.67	11.98	9.71	38.21	244.25	204.43	1,152.06	1,142.94	9.12	126.321	
3,900.00	3,827.12	2,640.00	2,589.67	12.10	9.71	25.86	244.25	204.43	1,248.57	1,239.36	9.20	135.643	
4,000.00	3,922.72	2,640.00	2,589.67	12.21	9.71	18.35	244.25	204.43	1,342.76	1,333.46	9.30	144.427	
4,100.00	4,012.89	2,640.00	2,589.67	12.35	9.71	12.99	244.25	204.43	1,432.47	1,423.07	9.40	152.363	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Rodeo Unit 511 pad (511, 512 & 513) - Rodeo Unit #511H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 412-MWD, 2709-MWD, 12047-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
12,000.00	4,232.25	3,973.68	3,708.14	178.22	21.78	-45.72	-5,661.40	7,025.80	1,418.11	1,343.28	74.83	18.951		
12,100.00	4,232.51	3,995.83	3,728.36	180.47	21.93	-46.50	-5,662.88	7,034.74	1,336.95	1,256.90	80.05	16.701		
12,200.00	4,232.25	4,020.13	3,750.47	182.73	22.10	-49.21	-5,664.78	7,044.63	1,257.63	1,171.66	85.97	14.629		
12,300.00	4,230.79	4,060.60	3,787.31	184.97	22.37	-53.27	-5,668.08	7,061.05	1,181.02	1,087.80	93.22	12.669		
12,400.00	4,228.39	4,098.15	3,821.61	186.64	22.63	-55.94	-5,671.03	7,076.06	1,107.20	1,005.41	101.78	10.878		
12,451.00	4,227.17	4,116.74	3,838.63	187.46	22.76	-57.20	-5,672.46	7,083.42	1,070.79	964.24	106.55	10.050 CC, ES, SF		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Rodeo Unit 511 pad (511, 512 & 513) - Rodeo Unit #512H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 412-MWD, 2697-MWD, 13793-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,900.00	4,247.94	4,143.00	4,116.56	153.13	11.20	70.31	-5,671.79	5,605.40	1,390.12	1,326.24	63.88	21.763		
11,000.00	4,247.45	4,143.00	4,116.56	155.42	11.20	72.85	-5,671.79	5,605.40	1,297.95	1,230.14	67.81	19.142		
11,100.00	4,245.49	4,143.00	4,116.56	157.72	11.20	73.83	-5,671.79	5,605.40	1,207.23	1,134.78	72.45	16.663		
11,200.00	4,245.51	4,153.53	4,126.97	160.01	11.22	70.43	-5,672.88	5,606.57	1,117.52	1,039.95	77.57	14.406		
11,300.00	4,246.43	4,161.24	4,134.57	162.29	11.23	72.59	-5,673.74	5,607.53	1,029.71	946.16	83.55	12.325		
11,400.00	4,246.03	4,174.00	4,147.11	164.58	11.25	75.39	-5,675.26	5,609.31	944.51	853.80	90.71	10.412		
11,500.00	4,243.94	4,174.00	4,147.11	166.86	11.25	76.30	-5,675.26	5,609.31	860.94	761.93	99.01	8.695		
11,600.00	4,240.71	4,188.26	4,161.06	169.14	11.27	78.70	-5,677.09	5,611.60	780.98	672.12	108.87	7.174		
11,700.00	4,237.27	4,205.00	4,177.36	171.42	11.29	79.79	-5,679.42	5,614.65	706.66	585.85	120.80	5.850		
11,800.00	4,235.81	4,213.97	4,186.04	173.68	11.30	80.01	-5,680.77	5,616.45	636.96	502.42	134.54	4.734		
11,900.00	4,234.11	4,230.30	4,201.75	175.95	11.32	82.28	-5,683.45	5,620.04	576.11	425.68	150.43	3.830		
12,000.00	4,232.25	4,250.67	4,221.15	178.22	11.35	84.04	-5,687.18	5,625.00	526.16	358.64	167.52	3.141		
12,100.00	4,232.51	4,277.66	4,246.53	180.47	11.39	86.92	-5,692.78	5,632.29	489.24	306.17	183.07	2.672		
12,200.00	4,232.25	4,310.54	4,276.88	182.73	11.44	90.75	-5,700.61	5,642.17	468.88	276.07	192.81	2.432		
12,277.69	4,231.22	4,341.10	4,304.43	184.47	11.48	94.23	-5,709.03	5,652.36	464.00	270.50	193.51	2.398 CC, ES, SF		
12,300.00	4,230.79	4,351.12	4,313.31	184.97	11.50	95.34	-5,712.04	5,655.90	464.33	271.83	192.50	2.412		
12,400.00	4,228.39	4,405.60	4,360.10	186.64	11.59	101.18	-5,730.48	5,676.80	475.74	293.54	182.20	2.611		
12,451.00	4,227.17	4,454.43	4,399.47	187.46	11.69	106.02	-5,749.81	5,698.22	486.59	311.36	175.24	2.777		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 5231-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	2.99	2.99	0.00	0.01	-33.76	117.52	-78.56	141.36				
100.00	100.00	102.76	102.76	0.13	0.17	-27.21	117.53	-78.70	141.28	140.97	0.31	459.950	
200.00	200.00	202.52	202.52	0.31	0.34	-27.45	117.57	-79.10	141.01	140.36	0.65	215.598	
300.00	299.99	302.28	302.28	0.49	0.51	-27.84	117.62	-79.77	140.58	139.58	1.00	140.456	
400.00	399.98	402.03	402.03	0.67	0.68	-28.40	117.70	-80.70	139.98	138.63	1.35	103.871	
500.00	499.97	501.88	501.86	1.01	0.97	-23.57	117.77	-81.98	139.26	137.28	1.98	70.361	
600.00	599.95	603.69	603.67	1.36	1.32	-23.69	118.41	-81.20	137.65	134.96	2.69	51.234	
700.00	699.94	704.17	704.11	1.72	1.66	-23.16	119.21	-78.75	135.34	131.96	3.39	39.980	
800.00	799.93	804.01	803.92	2.08	2.01	-17.13	119.97	-76.23	133.00	128.91	4.09	32.529	
900.00	899.92	903.76	903.65	2.44	2.36	-16.28	120.49	-74.24	131.10	126.31	4.80	27.338	
1,000.00	999.91	1,003.46	1,003.33	2.80	2.71	0.37	121.02	-72.64	129.60	124.10	5.50	23.546	
1,100.00	1,099.91	1,104.67	1,104.50	3.15	3.07	8.01	121.76	-70.36	128.13	121.91	6.22	20.600	
1,200.00	1,199.90	1,205.78	1,205.36	3.51	3.43	9.70	123.58	-63.73	125.67	118.73	6.94	18.107	
1,300.00	1,299.90	1,306.28	1,306.02	3.87	3.81	18.95	127.38	-51.37	123.14	115.47	7.67	16.049	
1,400.00	1,399.90	1,405.49	1,402.53	4.22	4.20	52.12	132.26	-33.81	121.78	113.36	8.42	14.459	
1,400.70	1,400.60	1,406.17	1,403.19	4.23	4.20	52.19	132.30	-33.67	121.78	113.35	8.43	14.450 CC, ES	
1,500.00	1,499.90	1,502.75	1,496.98	4.58	4.62	72.27	137.79	-11.34	123.87	114.69	9.19	13.485	
1,600.00	1,599.88	1,597.72	1,587.89	4.93	5.07	-24.02	143.67	15.46	130.58	120.65	9.93	13.150 SF	
1,700.00	1,699.64	1,689.23	1,674.11	5.28	5.55	-16.86	150.37	45.34	140.22	129.63	10.59	13.244	
1,800.00	1,798.80	1,780.52	1,758.60	5.64	6.09	-7.15	158.38	78.98	152.29	141.12	11.17	13.633	
1,900.00	1,897.24	1,875.40	1,845.32	6.02	6.71	0.54	166.98	116.49	166.08	154.31	11.77	14.108	
2,000.00	1,994.74	1,970.25	1,931.73	6.41	7.36	7.18	175.43	154.69	179.50	167.14	12.36	14.526	
2,100.00	2,090.87	2,067.03	2,019.72	6.84	8.06	12.75	183.97	194.08	190.93	177.95	12.98	14.709	
2,200.00	2,185.46	2,163.83	2,107.74	7.30	8.77	21.03	192.27	233.50	200.23	186.60	13.63	14.690	
2,300.00	2,279.17	2,260.00	2,195.20	7.80	9.49	27.41	200.50	272.62	210.04	195.71	14.34	14.652	
2,400.00	2,372.60	2,355.68	2,282.09	8.33	10.23	34.10	208.57	311.86	222.02	206.89	15.13	14.676	
2,500.00	2,466.33	2,451.42	2,368.88	8.87	10.97	42.39	216.60	351.45	238.38	222.33	16.04	14.859	
2,600.00	2,560.50	2,549.29	2,457.76	9.35	11.74	48.09	224.74	391.63	257.95	240.94	17.01	15.164	
2,700.00	2,654.92	2,649.77	2,549.54	9.65	12.49	51.57	233.18	431.64	278.31	260.44	17.87	15.573	
2,800.00	2,749.39	2,747.71	2,639.41	9.91	12.95	56.62	241.05	469.78	298.95	280.53	18.41	16.235	
2,900.00	2,843.98	2,847.50	2,731.27	10.20	13.36	61.47	249.39	507.84	320.70	301.71	18.99	16.887	
3,000.00	2,939.26	2,949.72	2,825.85	10.50	13.79	69.77	258.61	545.50	344.69	325.04	19.65	17.541	
3,100.00	3,035.26	3,040.21	2,909.86	10.80	14.20	76.57	267.31	578.00	371.45	351.26	20.19	18.395	
3,200.00	3,132.17	3,127.27	2,989.54	11.08	14.63	81.53	276.27	611.90	404.02	383.36	20.66	19.556	
3,300.00	3,230.24	3,226.76	3,080.55	11.33	15.16	82.32	287.19	650.59	437.67	416.49	21.18	20.664	
3,400.00	3,329.41	3,318.42	3,164.74	11.53	15.66	85.99	297.40	685.35	471.16	449.67	21.49	21.929	
3,500.00	3,429.20	3,407.79	3,246.49	11.67	16.16	101.92	305.72	720.46	508.12	486.44	21.67	23.443	
3,600.00	3,529.18	3,501.91	3,333.23	11.78	16.70	174.56	313.62	756.16	544.73	522.88	21.85	24.932	
3,700.00	3,629.18	3,587.92	3,412.02	11.88	17.21	-57.67	320.05	790.03	583.05	561.11	21.95	26.567	
3,800.00	3,728.88	3,686.42	3,502.91	11.98	17.81	-30.97	327.27	827.31	614.29	592.18	22.11	27.784	
3,900.00	3,827.12	3,768.17	3,577.47	12.10	18.32	-31.80	333.84	860.16	638.41	616.39	22.02	28.990	
4,000.00	3,922.72	3,890.14	3,690.13	12.21	19.07	-35.65	344.70	905.58	651.42	629.20	22.22	29.312	
4,100.00	4,012.89	3,981.37	3,774.32	12.35	19.64	-39.34	354.82	939.22	654.50	632.44	22.06	29.674	
4,200.00	4,094.29	4,083.37	3,868.91	12.53	20.26	-45.11	366.84	975.43	646.37	624.39	21.98	29.411	
4,300.00	4,164.77	4,201.87	3,980.57	12.78	20.93	-54.14	380.50	1,012.60	628.88	606.68	22.20	28.327	
4,400.00	4,222.27	4,244.32	4,020.89	13.18	21.16	-57.98	385.56	1,024.88	606.85	584.30	22.55	26.914	
4,500.00	4,264.02	4,273.19	4,047.87	13.88	21.33	-62.76	389.81	1,034.24	587.13	563.31	23.82	24.646	
4,600.00	4,287.83	4,295.62	4,068.58	14.93	21.46	-66.46	394.02	1,041.73	575.94	549.61	26.33	21.871	
4,653.02	4,292.93	4,302.53	4,074.95	15.61	21.51	-67.34	395.50	1,043.96	574.30	546.21	28.09	20.448	
4,700.00	4,291.81	4,303.85	4,076.16	16.27	21.51	-67.51	395.79	1,044.38	575.23	545.43	29.79	19.307	
4,800.00	4,286.91	4,304.79	4,077.03	17.83	21.52	-67.53	396.00	1,044.68	588.32	554.85	33.48	17.573	
4,900.00	4,282.68	4,305.91	4,078.07	19.55	21.53	-67.83	396.26	1,045.03	617.57	580.80	36.77	16.796	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 5231-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,278.03	4,306.73	4,078.82	21.39	21.53	-67.69	396.45	1,045.29	660.15	620.79	39.36	16.773	
5,100.00	4,272.91	4,316.00	4,087.35	23.32	21.59	-69.31	398.65	1,048.16	714.03	672.65	41.38	17.255	
5,200.00	4,270.88	4,316.00	4,087.35	25.32	21.59	-70.25	398.65	1,048.16	777.26	734.67	42.59	18.250	
5,300.00	4,269.14	4,316.00	4,087.35	27.37	21.59	-70.39	398.65	1,048.16	847.15	803.80	43.35	19.543	
5,400.00	4,267.50	4,316.00	4,087.35	29.47	21.59	-70.70	398.65	1,048.16	922.10	878.31	43.79	21.057	
5,500.00	4,266.24	4,316.00	4,087.35	31.59	21.59	-69.90	398.65	1,048.16	1,002.15	958.14	44.00	22.774	
5,600.00	4,265.54	4,316.00	4,087.35	33.69	21.59	-69.66	398.65	1,048.16	1,087.73	1,043.63	44.10	24.667	
5,700.00	4,265.03	4,316.00	4,087.35	35.80	21.59	-69.67	398.65	1,048.16	1,175.80	1,131.71	44.10	26.664	
5,800.00	4,264.29	4,316.00	4,087.35	37.92	21.59	-68.69	398.65	1,048.16	1,265.79	1,221.74	44.05	28.733	
5,900.00	4,262.92	4,316.00	4,087.35	40.06	21.59	-68.40	398.65	1,048.16	1,357.10	1,313.11	43.98	30.855	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetrack 01													Offset Site Error: 0.00 ft
Survey Program: 432-MWD, 2692-MWD, 4630-MWD, 14739-MWD													Offset Well Error: 0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	2.99	2.99	0.00	0.01	-33.76	117.52	-78.56	141.36				
100.00	100.00	102.76	102.76	0.13	0.17	-27.21	117.53	-78.70	141.28	140.97	0.31	459.950	
200.00	200.00	202.52	202.52	0.31	0.34	-27.45	117.57	-79.10	141.01	140.36	0.65	215.598	
300.00	299.99	302.28	302.28	0.49	0.51	-27.84	117.62	-79.77	140.58	139.58	1.00	140.456	
400.00	399.98	402.03	402.03	0.67	0.68	-28.40	117.70	-80.70	139.98	138.63	1.35	103.871	
500.00	499.97	501.88	501.86	1.01	0.97	-23.57	117.77	-81.98	139.26	137.28	1.98	70.361	
600.00	599.95	603.69	603.67	1.36	1.32	-23.69	118.41	-81.20	137.65	134.96	2.69	51.234	
700.00	699.94	704.17	704.11	1.72	1.66	-23.16	119.21	-78.75	135.34	131.96	3.39	39.980	
800.00	799.93	804.01	803.92	2.08	2.01	-17.13	119.97	-76.23	133.00	128.91	4.09	32.529	
900.00	899.92	903.76	903.65	2.44	2.36	-16.28	120.49	-74.24	131.10	126.31	4.80	27.338	
1,000.00	999.91	1,003.46	1,003.33	2.80	2.71	0.37	121.02	-72.64	129.60	124.10	5.50	23.546	
1,100.00	1,099.91	1,104.67	1,104.50	3.15	3.07	8.01	121.76	-70.36	128.13	121.91	6.22	20.600	
1,200.00	1,199.90	1,205.78	1,205.36	3.51	3.43	9.70	123.58	-63.73	125.67	118.73	6.94	18.107	
1,300.00	1,299.90	1,306.28	1,306.02	3.87	3.81	18.95	127.38	-51.37	123.14	115.47	7.67	16.049	
1,400.00	1,399.90	1,405.49	1,402.53	4.22	4.20	52.12	132.26	-33.81	121.78	113.36	8.42	14.459	
1,400.70	1,400.60	1,406.17	1,403.19	4.23	4.20	52.19	132.30	-33.67	121.78	113.35	8.43	14.450 CC, ES	
1,500.00	1,499.90	1,502.75	1,496.98	4.58	4.62	72.27	137.79	-11.34	123.87	114.69	9.19	13.485	
1,600.00	1,599.88	1,597.72	1,587.89	4.93	5.07	-24.02	143.67	15.46	130.58	120.65	9.93	13.150 SF	
1,700.00	1,699.64	1,689.23	1,674.11	5.28	5.55	-16.86	150.37	45.34	140.22	129.63	10.59	13.244	
1,800.00	1,798.80	1,780.52	1,758.60	5.64	6.09	-7.15	158.38	78.98	152.29	141.11	11.17	13.633	
1,900.00	1,897.24	1,875.40	1,845.32	6.02	6.71	0.54	166.98	116.49	166.08	154.31	11.77	14.108	
2,000.00	1,994.74	1,970.25	1,931.73	6.41	7.36	7.18	175.43	154.69	179.50	167.14	12.36	14.526	
2,100.00	2,090.87	2,067.03	2,019.72	6.84	8.06	12.75	183.97	194.08	190.93	177.95	12.98	14.709	
2,200.00	2,185.46	2,163.83	2,107.74	7.30	8.77	21.03	192.27	233.50	200.23	186.60	13.63	14.690	
2,300.00	2,279.17	2,260.00	2,195.20	7.80	9.49	27.41	200.50	272.62	210.04	195.71	14.34	14.652	
2,400.00	2,372.60	2,355.68	2,282.09	8.33	10.23	34.10	208.57	311.86	222.02	206.89	15.13	14.676	
2,500.00	2,466.33	2,451.42	2,368.88	8.87	10.98	42.39	216.60	351.45	238.38	222.33	16.04	14.859	
2,600.00	2,560.50	2,549.29	2,457.76	9.35	11.74	48.09	224.74	391.63	257.95	240.94	17.01	15.164	
2,700.00	2,654.92	2,649.77	2,549.54	9.65	12.49	51.57	233.18	431.64	278.31	260.44	17.87	15.573	
2,800.00	2,749.39	2,747.71	2,639.41	9.91	12.95	56.62	241.05	469.78	298.95	280.53	18.41	16.235	
2,900.00	2,843.98	2,847.50	2,731.27	10.20	13.36	61.47	249.39	507.84	320.70	301.71	18.99	16.887	
3,000.00	2,939.26	2,949.72	2,825.85	10.50	13.79	69.77	258.61	545.50	344.69	325.04	19.65	17.541	
3,100.00	3,035.26	3,040.21	2,909.86	10.80	14.20	76.57	267.31	578.00	371.45	351.26	20.19	18.395	
3,200.00	3,132.17	3,127.27	2,989.54	11.08	14.63	81.53	276.27	611.90	404.02	383.36	20.66	19.556	
3,300.00	3,230.24	3,226.76	3,080.55	11.33	15.16	82.32	287.19	650.59	437.67	416.49	21.18	20.664	
3,400.00	3,329.41	3,318.42	3,164.74	11.53	15.66	85.99	297.40	685.35	471.16	449.67	21.49	21.929	
3,500.00	3,429.20	3,407.79	3,246.49	11.67	16.16	101.92	305.72	720.46	508.12	486.44	21.67	23.443	
3,600.00	3,529.18	3,501.91	3,333.23	11.78	16.70	174.56	313.62	756.16	544.73	522.88	21.85	24.932	
3,700.00	3,629.18	3,587.92	3,412.02	11.88	17.21	-57.67	320.05	790.03	583.05	561.11	21.95	26.567	
3,800.00	3,728.88	3,686.42	3,502.91	11.98	17.81	-30.97	327.27	827.31	614.29	592.18	22.11	27.783	
3,900.00	3,827.12	3,768.17	3,577.47	12.10	18.32	-31.80	333.84	860.16	638.41	616.39	22.02	28.990	
4,000.00	3,922.72	3,890.14	3,690.13	12.21	19.08	-35.65	344.70	905.58	651.42	629.20	22.22	29.312	
4,100.00	4,012.89	3,981.37	3,774.32	12.35	19.64	-39.34	354.82	939.22	654.50	632.44	22.06	29.674	
4,200.00	4,094.29	4,083.37	3,868.91	12.53	20.26	-45.11	366.84	975.43	646.37	624.39	21.98	29.411	
4,300.00	4,164.77	4,201.87	3,980.57	12.78	20.93	-54.14	380.50	1,012.60	628.88	606.68	22.20	28.327	
4,400.00	4,222.27	4,244.32	4,020.89	13.18	21.16	-57.98	385.56	1,024.88	606.85	584.30	22.55	26.914	
4,500.00	4,264.02	4,273.19	4,047.87	13.88	21.33	-62.76	389.81	1,034.24	587.13	563.31	23.82	24.646	
4,600.00	4,287.83	4,295.62	4,068.58	14.93	21.47	-66.46	394.02	1,041.73	575.94	549.61	26.33	21.870	
4,653.02	4,292.93	4,302.53	4,074.95	15.61	21.51	-67.34	395.50	1,043.96	574.30	546.21	28.09	20.448	
4,700.00	4,291.81	4,303.85	4,076.16	16.27	21.52	-67.51	395.79	1,044.38	575.23	545.43	29.79	19.306	
4,800.00	4,286.91	4,304.79	4,077.03	17.83	21.52	-67.53	396.00	1,044.68	588.32	554.85	33.48	17.573	
4,900.00	4,282.68	4,305.91	4,078.07	19.55	21.53	-67.83	396.26	1,045.03	617.57	580.80	36.77	16.796	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetrack 01													Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 4630-MWD, 14739-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,278.03	4,306.73	4,078.82	21.39	21.53	-67.69	398.45	1,045.29	660.15	620.79	39.36	16.773		
5,100.00	4,272.91	4,316.00	4,087.35	23.32	21.59	-69.31	398.65	1,048.16	714.03	672.65	41.38	17.254		
5,200.00	4,270.88	4,316.00	4,087.35	25.32	21.59	-70.25	398.65	1,048.16	777.26	734.67	42.59	18.249		
5,300.00	4,269.14	4,316.00	4,087.35	27.37	21.59	-70.39	398.65	1,048.16	847.15	803.80	43.35	19.542		
5,400.00	4,267.50	4,316.00	4,087.35	29.47	21.59	-70.70	398.65	1,048.16	922.10	878.31	43.79	21.056		
5,500.00	4,266.24	4,316.00	4,087.35	31.59	21.59	-69.90	398.65	1,048.16	1,002.15	958.14	44.00	22.774		
5,600.00	4,265.54	4,316.00	4,087.35	33.69	21.59	-69.66	398.65	1,048.16	1,087.73	1,043.63	44.10	24.666		
5,700.00	4,265.03	4,316.00	4,087.35	35.80	21.59	-69.67	398.65	1,048.16	1,175.80	1,131.71	44.10	26.663		
5,800.00	4,264.29	4,316.00	4,087.35	37.92	21.59	-68.69	398.65	1,048.16	1,265.79	1,221.74	44.05	28.732		
5,900.00	4,262.92	4,316.00	4,087.35	40.06	21.59	-68.40	398.65	1,048.16	1,357.10	1,313.11	43.98	30.855		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 728H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program:		431-MWD, 2695-MWD, 13517-MWD					Rule Assigned:			Offset Well Error:		0.00 ft		
Reference	Offset	Semi Major Axis												
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	3.01	3.01	0.00	0.01	-41.88	104.04	-93.30	139.75					
100.00	100.00	103.39	103.39	0.13	0.18	-35.09	104.28	-92.82	139.45	139.14	0.31	448.553		
200.00	200.00	203.75	203.74	0.31	0.35	-34.62	104.95	-91.44	138.56	137.90	0.66	209.437		
300.00	299.99	304.07	304.03	0.49	0.52	-33.83	106.07	-89.16	137.12	136.10	1.01	135.431		
400.00	399.98	404.34	404.23	0.67	0.69	-32.70	107.62	-85.98	135.14	133.78	1.36	99.117		
500.00	499.97	502.51	502.33	1.01	0.99	-25.93	109.62	-82.88	133.29	131.29	2.00	66.722		
600.00	599.95	602.00	601.77	1.36	1.35	-25.26	112.02	-81.10	132.45	129.74	2.71	48.872		
700.00	699.94	702.86	702.63	1.72	1.69	-25.58	112.64	-80.94	131.32	127.91	3.41	38.515		
800.00	799.93	802.49	802.23	2.08	2.02	-21.69	111.59	-83.08	130.30	126.20	4.10	31.789		
900.00	899.92	902.72	902.42	2.44	2.36	-23.03	110.05	-85.62	129.55	124.75	4.80	27.001		
1,000.00	999.91	1,003.04	1,002.69	2.80	2.71	-8.43	108.44	-87.99	128.84	123.34	5.50	23.417		
1,100.00	1,099.91	1,103.25	1,102.86	3.15	3.06	-3.16	106.59	-90.12	127.99	121.78	6.21	20.615		
1,200.00	1,199.90	1,204.05	1,203.63	3.51	3.41	-5.59	104.85	-91.70	127.08	120.16	6.92	18.366		
1,300.00	1,299.90	1,308.53	1,308.08	3.87	3.78	-2.37	103.21	-90.22	124.38	116.74	7.64	16.286		
1,400.00	1,399.90	1,411.92	1,411.21	4.22	4.14	24.15	101.73	-83.19	118.14	109.80	8.34	14.164		
1,500.00	1,499.90	1,514.19	1,512.67	4.58	4.50	38.38	101.60	-70.50	109.71	100.66	9.05	12.129		
1,600.00	1,599.88	1,616.98	1,613.80	4.93	4.89	-62.26	101.19	-52.16	98.77	89.00	9.76	10.116		
1,700.00	1,699.64	1,717.40	1,711.62	5.28	5.30	-57.62	99.57	-29.60	84.35	73.82	10.52	8.016		
1,800.00	1,798.80	1,815.69	1,806.13	5.64	5.74	-46.02	97.82	-2.67	67.51	56.16	11.35	5.946		
1,900.00	1,897.24	1,911.96	1,896.91	6.02	6.22	-26.04	96.24	29.29	52.50	40.31	12.19	4.307		
1,987.29	1,982.40	1,994.99	1,974.12	6.36	6.68	1.11	94.58	59.78	47.03	34.52	12.51	3.759 CC, ES, SF		
2,000.00	1,994.74	2,007.07	1,985.31	6.41	6.75	5.45	94.32	64.32	47.19	34.68	12.52	3.770		
2,100.00	2,090.87	2,102.48	2,073.63	6.84	7.32	35.60	92.39	100.35	55.14	42.42	12.72	4.335		
2,200.00	2,185.46	2,197.95	2,162.27	7.30	7.92	60.26	90.20	135.75	72.19	58.60	13.58	5.314		
2,300.00	2,279.17	2,292.47	2,250.11	7.80	8.52	75.10	87.78	170.56	96.12	81.36	14.76	6.511		
2,400.00	2,372.60	2,386.82	2,337.83	8.33	9.14	85.28	85.00	205.22	123.92	107.93	15.99	7.749		
2,500.00	2,466.33	2,481.57	2,426.00	8.87	9.77	94.09	82.01	239.79	155.27	138.06	17.21	9.024		
2,600.00	2,560.50	2,578.22	2,516.46	9.35	10.40	98.85	78.95	273.65	187.34	168.99	18.36	10.206		
2,700.00	2,654.92	2,675.28	2,607.92	9.65	10.89	100.93	76.14	306.02	218.56	199.41	19.15	11.413		
2,800.00	2,749.39	2,771.59	2,698.98	9.91	11.20	104.67	73.78	337.28	249.10	229.41	19.69	12.649		
2,900.00	2,843.98	2,866.36	2,788.55	10.20	11.50	107.98	71.92	368.18	280.39	260.18	20.22	13.870		
3,000.00	2,939.26	2,963.48	2,880.27	10.50	11.83	114.77	70.58	400.08	312.79	292.03	20.77	15.062		
3,100.00	3,035.26	3,056.05	2,967.87	10.80	12.18	120.10	69.54	430.00	346.08	324.82	21.26	16.277		
3,200.00	3,132.17	3,150.80	3,056.67	11.08	12.57	123.13	69.48	463.05	380.23	358.48	21.75	17.481		
3,300.00	3,230.24	3,250.60	3,150.70	11.33	12.99	121.98	69.74	496.48	411.17	388.92	22.25	18.478		
3,400.00	3,329.41	3,348.39	3,243.18	11.53	13.42	123.98	70.48	528.24	437.94	415.28	22.66	19.329		
3,500.00	3,429.20	3,457.27	3,346.64	11.67	13.89	137.80	71.88	562.13	461.70	438.62	23.07	20.011		
3,600.00	3,529.18	3,542.95	3,428.42	11.78	14.27	-150.71	73.39	587.62	482.52	459.31	23.22	20.784		
3,700.00	3,629.18	3,622.86	3,503.69	11.88	14.66	-24.25	74.90	614.40	506.22	482.94	23.27	21.750		
3,800.00	3,728.88	3,998.86	3,853.72	11.98	15.82	-11.55	173.91	679.10	491.84	468.70	23.14	21.258		
3,900.00	3,827.12	4,373.32	4,131.87	12.10	15.73	-51.42	393.56	585.35	431.48	414.56	16.92	25.507		
4,000.00	3,922.72	4,431.06	4,161.78	12.21	15.61	-73.85	430.00	552.06	350.45	333.55	16.89	20.746		
4,100.00	4,012.89	4,438.47	4,165.37	12.35	15.60	-86.77	434.75	547.65	277.71	259.34	18.37	15.117		
4,200.00	4,094.29	4,426.30	4,159.46	12.53	15.62	-90.37	426.95	554.88	225.93	205.00	20.93	10.796		
4,283.53	4,154.09	4,404.66	4,148.75	12.73	15.66	-86.96	413.09	567.60	210.77	187.58	23.19	9.088		
4,300.00	4,164.77	4,399.67	4,146.19	12.78	15.67	-85.77	409.94	570.50	211.47	187.96	23.51	8.995		
4,400.00	4,222.27	4,362.63	4,126.00	13.18	15.75	-73.33	386.95	591.36	236.02	211.60	24.42	9.665		
4,500.00	4,264.02	4,313.35	4,096.47	13.88	15.84	-57.81	356.13	615.95	283.09	258.88	24.21	11.693		
4,600.00	4,287.83	4,264.19	4,064.43	14.93	15.90	-43.49	324.98	636.40	340.06	315.74	24.32	13.985		
4,700.00	4,291.81	4,216.47	4,030.90	16.27	15.94	-33.32	295.12	652.50	397.44	372.54	24.90	15.961		
4,800.00	4,286.91	4,170.10	3,995.97	17.83	15.96	-28.54	266.92	664.06	458.09	432.68	25.41	18.030		
4,900.00	4,282.68	4,133.00	3,967.03	19.55	15.96	-25.43	244.69	670.71	526.01	500.16	25.86	20.342		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 728H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2695-MWD, 13517-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,278.03	4,101.00	3,941.18	21.39	15.94	-22.53	226.25	674.61	599.60	573.42	26.18	22.906	
5,100.00	4,272.91	4,080.02	3,923.81	23.32	15.92	-21.50	214.63	676.46	677.51	650.93	26.58	25.491	
5,200.00	4,270.88	4,060.38	3,907.25	25.32	15.90	-21.03	204.14	677.73	760.61	733.82	26.79	28.394	
5,300.00	4,269.14	4,038.00	3,888.02	27.37	15.87	-19.90	192.74	678.62	846.53	819.71	26.82	31.565	
5,400.00	4,267.50	4,027.20	3,878.62	29.47	15.86	-19.85	187.43	678.86	934.39	907.39	26.99	34.614	
5,500.00	4,266.24	4,007.00	3,860.90	31.59	15.84	-13.32	177.74	679.08	1,024.20	997.25	26.95	38.005	
5,600.00	4,265.54	3,993.55	3,849.01	33.69	15.82	-10.43	171.45	679.09	1,115.84	1,088.81	27.03	41.282	
5,700.00	4,265.03	3,976.00	3,833.39	35.80	15.79	-8.97	163.45	678.93	1,208.46	1,181.44	27.02	44.725	
5,800.00	4,264.29	3,963.83	3,822.49	37.92	15.77	-7.31	158.04	678.71	1,301.74	1,274.68	27.07	48.094	
5,900.00	4,262.92	3,944.00	3,804.66	40.06	15.75	-7.22	149.38	678.10	1,395.45	1,368.45	27.00	51.676	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 729H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2701-MWD, 12316-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	3.03	3.03	0.00	0.01	-65.15	63.97	-138.11	152.21				
100.00	100.00	104.11	104.11	0.13	0.18	-58.73	63.45	-137.93	151.73	151.42	0.31	485.632	
200.00	200.00	205.15	205.13	0.31	0.35	-59.36	61.96	-137.42	150.36	149.69	0.66	226.237	
300.00	299.99	306.12	306.07	0.49	0.53	-60.43	59.49	-136.56	148.12	147.10	1.02	145.608	
400.00	399.98	406.98	406.87	0.67	0.70	-61.97	56.05	-135.37	145.08	143.71	1.37	105.844	
500.00	499.97	507.02	506.81	1.01	1.02	-58.39	51.87	-133.99	141.50	139.48	2.02	70.049	
600.00	599.95	606.70	606.40	1.36	1.38	-60.68	47.77	-132.55	137.89	135.15	2.74	50.293	
700.00	699.94	705.84	705.45	1.72	1.75	-63.00	43.79	-131.53	134.99	131.53	3.46	38.996	
800.00	799.93	805.29	804.83	2.08	2.11	-59.80	40.24	-130.68	132.47	128.28	4.18	31.673	
900.00	899.92	904.68	904.17	2.44	2.47	-61.37	37.15	-130.20	130.74	125.84	4.90	26.673	
1,000.00	999.91	1,004.01	1,003.46	2.80	2.83	-46.86	34.55	-129.93	129.34	123.72	5.62	23.023	
1,100.00	1,099.91	1,104.81	1,104.23	3.15	3.19	-41.78	31.80	-129.87	128.18	121.84	6.34	20.216	
1,200.00	1,199.90	1,207.81	1,207.04	3.51	3.57	-45.93	25.91	-128.46	125.58	118.50	7.08	17.741	
1,300.00	1,299.90	1,309.12	1,307.78	3.87	3.97	-47.45	15.81	-125.20	121.34	113.51	7.83	15.504	
1,400.00	1,399.90	1,409.10	1,406.77	4.22	4.37	-29.61	2.45	-120.92	117.17	108.58	8.59	13.646	
1,500.00	1,499.90	1,507.75	1,503.96	4.58	4.78	-28.83	-13.67	-115.89	114.47	105.11	9.36	12.231	
1,520.44	1,520.34	1,527.81	1,523.65	4.65	4.87	-112.79	-17.36	-114.77	114.33	104.81	9.52	12.010 CC, ES	
1,600.00	1,599.88	1,604.94	1,598.99	4.93	5.22	-147.53	-33.15	-110.01	116.39	106.26	10.13	11.484 SF	
1,700.00	1,699.64	1,697.98	1,689.00	5.28	5.66	-162.95	-55.80	-103.71	129.40	118.53	10.86	11.912	
1,800.00	1,798.80	1,789.17	1,776.45	5.64	6.13	-173.59	-80.84	-97.21	155.25	143.71	11.54	13.453	
1,900.00	1,897.24	1,879.56	1,862.83	6.02	6.61	-177.06	-106.64	-90.71	190.34	178.14	12.21	15.592	
2,000.00	1,994.74	1,969.28	1,948.62	6.41	7.10	170.43	-132.16	-84.49	231.93	219.04	12.89	17.994	
2,100.00	2,090.87	2,057.57	2,033.15	6.84	7.58	165.24	-156.94	-78.46	278.92	265.34	13.59	20.529	
2,200.00	2,185.46	2,146.20	2,118.17	7.30	8.06	164.76	-181.22	-72.37	330.20	315.89	14.31	23.069	
2,300.00	2,279.17	2,231.94	2,200.64	7.80	8.53	163.20	-203.91	-66.52	383.19	368.17	15.02	25.516	
2,400.00	2,372.60	2,312.33	2,277.94	8.33	8.97	163.24	-225.30	-61.14	437.05	421.37	15.68	27.880	
2,500.00	2,466.33	2,392.56	2,354.79	8.87	9.42	165.79	-247.70	-55.57	491.63	475.30	16.33	30.100	
2,600.00	2,560.50	2,479.58	2,438.17	9.35	9.92	165.79	-271.91	-49.89	545.58	528.52	17.06	31.986	
2,700.00	2,654.92	2,571.04	2,526.12	9.65	10.43	164.04	-296.27	-43.73	597.96	580.32	17.64	33.898	
2,800.00	2,749.39	2,662.99	2,614.82	9.91	10.81	165.28	-319.79	-38.02	649.56	631.58	17.98	36.120	
2,900.00	2,843.98	2,750.54	2,699.54	10.20	11.06	166.76	-341.25	-32.83	700.30	682.11	18.19	38.490	
3,000.00	2,939.26	2,829.65	2,775.88	10.50	11.26	172.74	-361.27	-27.35	750.03	731.72	18.31	40.960	
3,100.00	3,035.26	2,904.74	2,847.85	10.80	11.47	177.41	-381.73	-21.03	799.32	780.90	18.42	43.385	
3,200.00	3,132.17	2,984.79	2,924.08	11.08	11.72	-179.98	-404.77	-12.96	846.81	828.23	18.58	45.577	
3,300.00	3,230.24	3,079.33	3,013.81	11.33	12.04	178.17	-432.55	-2.24	890.16	871.33	18.83	47.284	
3,400.00	3,329.41	3,179.01	3,108.82	11.53	12.40	-179.79	-460.71	8.57	926.67	907.56	19.11	48.498	
3,500.00	3,429.20	3,256.84	3,183.10	11.67	12.69	-164.66	-482.64	16.21	957.52	938.25	19.27	49.679	
3,600.00	3,529.18	3,397.62	3,317.74	11.78	13.23	-92.51	-521.66	28.96	983.71	963.92	19.79	49.714	
3,700.00	3,629.18	3,457.20	3,374.88	11.88	13.46	35.57	-537.72	34.04	1,007.53	987.64	19.88	50.668	
3,800.00	3,728.88	3,564.42	3,477.40	11.98	13.90	61.08	-567.65	43.45	1,029.58	1,009.29	20.28	50.757	
3,900.00	3,827.12	4,065.66	3,950.33	12.10	14.25	72.16	-569.83	-77.07	1,033.68	1,012.60	21.08	49.039	
4,000.00	3,922.72	4,344.15	4,143.32	12.21	13.72	86.41	-454.61	-235.49	1,010.44	988.78	21.66	46.657	
4,100.00	4,012.89	4,358.54	4,150.40	12.35	13.70	88.63	-446.52	-245.05	989.11	966.82	22.29	44.366	
4,200.00	4,094.29	4,340.94	4,141.72	12.53	13.73	88.23	-456.40	-233.36	976.47	953.66	22.81	42.812	
4,300.00	4,164.77	4,295.68	4,117.84	12.78	13.81	85.26	-480.73	-203.61	971.29	948.01	23.28	41.719	
4,318.00	4,176.16	4,288.80	4,113.92	12.83	13.82	85.09	-484.23	-199.17	971.13	947.72	23.41	41.476	
4,400.00	4,222.27	4,256.79	4,094.74	13.18	13.89	83.67	-499.88	-178.90	973.95	950.02	23.93	40.704	
4,500.00	4,264.02	4,217.30	4,068.84	13.88	13.97	80.04	-517.61	-154.94	984.34	959.56	24.78	39.729	
4,600.00	4,287.83	4,177.88	4,040.73	14.93	14.05	76.31	-533.54	-132.37	996.96	971.17	25.79	38.664	
4,700.00	4,291.81	4,139.00	4,011.00	16.27	14.12	73.22	-547.60	-111.65	1,010.46	983.50	26.96	37.479	
4,800.00	4,286.91	4,107.00	3,985.19	17.83	14.18	71.56	-557.97	-95.85	1,028.88	1,000.68	28.19	36.495	
4,900.00	4,282.68	4,076.00	3,959.21	19.55	14.23	70.26	-567.04	-81.58	1,055.01	1,025.66	29.34	35.953	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 729H - Original Hole - Surveys Original Hole														Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2701-MWD, 12316-MWD														Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,278.03	4,044.00	3,931.47	21.39	14.28	68.47	-575.38	-67.99	1,088.70	1,058.34	30.37	35.853			
5,100.00	4,272.91	4,013.00	3,903.91	23.32	14.33	67.34	-582.68	-55.82	1,129.25	1,098.00	31.25	36.138			
5,200.00	4,270.88	3,995.04	3,887.72	25.32	14.35	66.88	-586.62	-49.13	1,177.47	1,145.46	32.01	36.785			
5,300.00	4,269.14	3,970.56	3,865.43	27.37	14.38	65.52	-591.67	-40.34	1,231.82	1,199.22	32.60	37.782			
5,400.00	4,267.50	3,950.00	3,846.55	29.47	14.41	64.44	-595.59	-33.23	1,291.54	1,258.45	33.09	39.033			
5,500.00	4,266.24	3,927.26	3,825.47	31.59	14.44	64.52	-599.52	-25.63	1,354.71	1,321.26	33.44	40.508			
5,600.00	4,265.54	3,902.70	3,802.52	33.69	14.46	63.83	-603.13	-17.69	1,418.88	1,385.22	33.65	42.160			

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 760H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2696-MWD, 13379-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	2.99	2.99	0.00	0.01	-57.82	77.45	-123.08	145.42				
100.00	100.00	102.58	102.58	0.13	0.17	-51.14	77.77	-123.05	145.45	145.14	0.31	473.338	
200.00	200.00	202.16	202.16	0.31	0.34	-51.00	78.68	-122.99	145.52	144.86	0.65	222.416	
300.00	299.99	301.74	301.73	0.49	0.51	-50.77	80.19	-122.88	145.63	144.63	1.00	145.459	
400.00	399.98	401.32	401.28	0.67	0.68	-50.45	82.30	-122.73	145.79	144.44	1.35	108.144	
500.00	499.97	501.12	501.05	1.01	0.98	-44.43	85.03	-122.45	145.91	143.93	1.98	73.613	
600.00	599.95	601.19	601.07	1.36	1.34	-44.19	87.84	-122.19	145.94	143.24	2.70	54.032	
700.00	699.94	702.66	702.52	1.72	1.70	-44.11	90.03	-121.92	145.72	142.30	3.42	42.585	
800.00	799.93	805.16	805.01	2.08	2.06	-38.98	90.32	-120.70	143.65	139.51	4.14	34.734	
900.00	899.92	904.54	904.38	2.44	2.39	-39.03	89.70	-119.36	141.21	136.38	4.83	29.219	
1,000.00	999.91	1,004.09	1,003.93	2.80	2.74	-23.27	89.33	-118.82	139.64	134.10	5.53	25.241	
1,100.00	1,099.91	1,103.87	1,103.70	3.15	3.08	-16.76	89.03	-118.10	138.01	131.77	6.24	22.129	
1,200.00	1,199.90	1,203.55	1,203.38	3.51	3.43	-18.21	88.81	-117.74	136.89	129.95	6.94	19.722	
1,300.00	1,299.90	1,303.38	1,303.21	3.87	3.78	-15.09	88.48	-117.62	136.02	128.37	7.64	17.797	
1,400.00	1,399.90	1,408.31	1,408.12	4.22	4.14	9.40	87.42	-116.05	133.69	125.33	8.36	15.994	
1,500.00	1,499.90	1,517.78	1,517.23	4.58	4.53	18.97	83.41	-108.67	125.56	116.50	9.06	13.860	
1,600.00	1,599.88	1,623.93	1,622.21	4.93	4.93	-89.87	75.37	-95.27	110.59	100.87	9.72	11.380	
1,700.00	1,699.64	1,725.30	1,721.69	5.28	5.32	-98.56	64.84	-78.89	91.91	81.54	10.37	8.860	
1,800.00	1,798.80	1,824.58	1,818.51	5.64	5.73	-110.44	53.24	-60.24	72.93	61.90	11.03	6.611	
1,900.00	1,897.24	1,921.63	1,912.49	6.02	6.15	-134.37	40.20	-39.87	59.32	47.49	11.83	5.013	
1,933.60	1,930.11	1,953.58	1,943.30	6.15	6.30	-144.80	35.43	-32.90	58.12	45.95	12.17	4.774 CC, ES, SF	
2,000.00	1,994.74	2,016.04	2,003.42	6.41	6.59	-165.28	25.62	-19.11	63.13	50.26	12.87	4.907	
2,100.00	2,090.87	2,109.34	2,093.36	6.84	7.04	172.54	11.22	1.14	86.88	73.15	13.73	6.327	
2,200.00	2,185.46	2,201.67	2,182.61	7.30	7.49	163.78	-2.42	20.43	121.43	106.91	14.52	8.363	
2,300.00	2,279.17	2,292.41	2,269.95	7.80	7.94	157.47	-16.32	40.73	160.38	145.08	15.30	10.482	
2,400.00	2,372.60	2,382.33	2,356.33	8.33	8.41	154.60	-30.65	61.21	201.35	185.26	16.10	12.510	
2,500.00	2,466.33	2,473.48	2,444.10	8.87	8.88	155.19	-45.01	81.15	242.80	225.88	16.92	14.351	
2,600.00	2,560.50	2,566.44	2,534.06	9.35	9.36	154.17	-58.83	100.11	283.40	265.66	17.73	15.980	
2,700.00	2,654.92	2,660.10	2,625.05	9.65	9.72	152.04	-71.86	118.01	322.93	304.68	18.24	17.700	
2,800.00	2,749.39	2,748.85	2,711.40	9.91	9.93	152.92	-83.98	134.57	362.22	343.73	18.50	19.584	
2,900.00	2,843.98	2,832.91	2,792.71	10.20	10.10	153.83	-96.99	151.47	403.19	384.49	18.70	21.564	
3,000.00	2,939.26	2,920.73	2,877.02	10.50	10.31	158.82	-112.18	170.76	444.85	425.89	18.96	23.459	
3,100.00	3,035.26	3,014.49	2,967.31	10.80	10.55	162.63	-127.70	190.73	485.02	465.72	19.30	25.136	
3,200.00	3,132.17	3,094.54	3,044.09	11.08	10.79	164.89	-141.80	208.43	524.06	504.53	19.53	26.827	
3,300.00	3,230.24	3,189.43	3,134.85	11.33	11.09	162.78	-159.22	229.92	559.71	539.81	19.91	28.118	
3,400.00	3,329.41	3,282.00	3,223.46	11.53	11.41	164.49	-176.14	250.72	589.65	569.39	20.25	29.115	
3,500.00	3,429.20	3,399.36	3,336.87	11.67	11.81	178.53	-195.02	274.15	612.14	591.37	20.77	29.472	
3,600.00	3,529.18	3,485.99	3,420.54	11.78	12.11	-109.47	-208.49	292.06	629.94	608.90	21.05	29.930	
3,700.00	3,629.18	3,575.62	3,506.45	11.88	12.46	17.39	-223.22	312.93	648.29	626.92	21.37	30.339	
3,800.00	3,728.88	3,663.80	3,590.33	11.98	12.84	42.54	-238.71	335.33	663.65	641.93	21.72	30.559	
3,900.00	3,827.12	3,849.51	3,770.89	12.10	13.52	41.77	-261.36	371.10	664.60	641.80	22.79	29.160	
4,000.00	3,922.72	3,987.48	3,908.18	12.21	13.82	42.68	-267.35	382.88	647.87	624.45	23.42	27.666	
4,100.00	4,012.89	4,090.06	4,010.69	12.35	13.99	46.71	-268.49	385.98	617.16	593.17	23.99	25.727	
4,200.00	4,094.29	4,255.37	4,175.40	12.53	14.13	58.72	-259.97	380.86	572.51	547.96	24.55	23.320	
4,300.00	4,164.77	4,357.30	4,274.30	12.78	14.07	73.85	-241.56	364.95	514.48	489.44	25.04	20.548	
4,400.00	4,222.27	4,403.44	4,317.86	13.18	14.02	87.29	-230.13	354.95	460.13	434.23	25.90	17.764	
4,500.00	4,264.02	4,412.77	4,326.56	13.88	14.01	92.69	-227.57	352.75	421.44	394.37	27.07	15.567	
4,600.00	4,287.83	4,397.37	4,312.18	14.93	14.03	92.39	-231.75	356.35	402.14	374.10	28.05	14.337	
4,637.88	4,291.96	4,387.21	4,302.63	15.41	14.04	91.10	-234.38	358.64	400.55	372.28	28.27	14.170	
4,700.00	4,291.81	4,366.64	4,283.19	16.27	14.06	88.11	-239.41	363.05	404.39	375.93	28.46	14.211	
4,800.00	4,286.91	4,335.63	4,253.56	17.83	14.09	83.73	-246.26	369.10	427.93	399.69	28.24	15.153	
4,900.00	4,282.68	4,311.36	4,230.13	19.55	14.11	80.74	-251.00	373.28	470.34	442.72	27.62	17.028	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 760H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2696-MWD, 13379-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,278.03	4,289.00	4,208.38	21.39	14.12	77.27	-254.92	376.70	527.72	500.82	26.90	19.619	
5,100.00	4,272.91	4,275.22	4,194.91	23.32	14.12	76.33	-257.12	378.56	595.75	569.48	26.27	22.677	
5,200.00	4,270.88	4,258.00	4,177.99	25.32	14.13	75.10	-259.61	380.59	672.30	646.58	25.72	26.139	
5,300.00	4,269.14	4,258.00	4,177.99	27.37	14.13	74.85	-259.61	380.59	754.48	729.12	25.37	29.742	
5,400.00	4,267.50	4,244.50	4,164.68	29.47	14.13	73.04	-261.37	381.95	840.73	815.69	25.04	33.574	
5,500.00	4,266.24	4,236.77	4,157.03	31.59	14.13	74.08	-262.30	382.65	929.15	904.36	24.80	37.469	
5,600.00	4,265.54	4,226.00	4,146.36	33.69	14.13	73.64	-263.50	383.53	1,017.93	993.37	24.55	41.462	
5,700.00	4,265.03	4,226.00	4,146.36	35.80	14.13	73.90	-263.50	383.53	1,108.35	1,083.95	24.39	45.436	
5,800.00	4,264.29	4,226.00	4,146.36	37.92	14.13	73.27	-263.50	383.53	1,200.11	1,175.84	24.27	49.450	
5,900.00	4,262.92	4,213.94	4,134.39	40.06	14.12	70.86	-264.70	384.39	1,292.87	1,268.74	24.14	53.567	
6,000.00	4,261.19	4,209.26	4,129.74	42.23	14.12	68.64	-265.13	384.69	1,387.07	1,363.02	24.06	57.654	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 761H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2703-MWD, 12833-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	3.01	3.01	0.00	0.01	-71.60	50.86	-152.85	161.09				
100.00	100.00	103.39	103.39	0.13	0.17	-64.89	51.18	-152.61	160.88	160.57	0.31	519.986	
200.00	200.00	203.76	203.76	0.31	0.34	-64.68	52.13	-151.91	160.28	159.62	0.66	243.358	
300.00	299.99	304.12	304.10	0.49	0.51	-64.33	53.71	-150.76	159.28	158.27	1.01	158.029	
400.00	399.98	404.46	404.40	0.67	0.68	-63.83	55.90	-149.14	157.89	156.53	1.36	116.326	
500.00	499.97	504.63	504.50	1.01	1.00	-57.66	58.58	-147.12	156.08	154.08	2.00	78.058	
600.00	599.95	603.54	603.39	1.36	1.35	-57.72	60.25	-145.87	154.50	151.79	2.71	56.952	
700.00	699.94	703.38	703.23	1.72	1.71	-58.19	60.90	-145.46	153.45	150.03	3.43	44.778	
800.00	799.93	802.86	802.71	2.08	2.05	-53.40	61.05	-145.13	152.24	148.11	4.13	36.839	
841.38	841.30	843.21	843.06	2.23	2.19	-53.55	61.00	-145.35	152.08	147.67	4.42	34.422 CC	
900.00	899.92	901.59	901.43	2.44	2.38	-53.83	60.74	-146.05	152.30	147.47	4.82	31.580	
1,000.00	999.91	1,001.67	1,001.48	2.80	2.72	-38.97	58.93	-147.64	152.48	146.97	5.51	27.658	
1,100.00	1,099.91	1,101.59	1,101.17	3.15	3.06	-35.07	52.92	-150.48	152.75	146.54	6.21	24.608 ES	
1,200.00	1,199.90	1,200.49	1,199.30	3.51	3.40	-41.11	41.52	-154.77	153.85	146.94	6.91	22.271	
1,300.00	1,299.90	1,299.91	1,297.64	3.87	3.76	-43.30	27.66	-159.55	156.28	148.66	7.63	20.495	
1,400.00	1,399.90	1,399.92	1,396.05	4.22	4.15	-25.21	10.44	-163.86	159.66	151.29	8.36	19.096	
1,500.00	1,499.90	1,495.86	1,489.74	4.58	4.55	-23.13	-9.84	-167.70	165.11	156.03	9.08	18.176	
1,600.00	1,599.88	1,588.97	1,579.64	4.93	4.96	-138.98	-33.61	-172.14	176.38	166.59	9.79	18.020 SF	
1,700.00	1,699.64	1,676.32	1,662.69	5.28	5.40	-150.56	-60.20	-177.04	198.42	187.99	10.43	19.025	
1,800.00	1,798.80	1,765.18	1,746.19	5.64	5.87	-158.36	-90.09	-182.62	232.05	220.96	11.08	20.935	
1,900.00	1,897.24	1,850.80	1,826.66	6.02	6.35	-165.85	-118.85	-187.97	273.31	261.60	11.71	23.341	
2,000.00	1,994.74	1,935.02	1,905.61	6.41	6.83	-171.79	-147.62	-193.53	321.56	309.22	12.34	26.064	
2,100.00	2,090.87	2,018.33	1,983.79	6.84	7.33	-176.97	-175.91	-198.93	375.68	362.70	12.98	28.939	
2,200.00	2,185.46	2,098.64	2,059.32	7.30	7.81	-177.67	-202.68	-204.26	434.52	420.91	13.61	31.922	
2,300.00	2,279.17	2,175.38	2,131.50	7.80	8.27	-179.89	-228.22	-209.35	495.92	481.71	14.21	34.898	
2,400.00	2,372.60	2,246.62	2,198.31	8.33	8.71	-179.49	-252.49	-214.11	558.83	544.07	14.76	37.864	
2,500.00	2,466.33	2,321.51	2,268.30	8.87	9.18	-178.47	-278.64	-219.12	621.90	606.55	15.35	40.521	
2,600.00	2,560.50	2,400.79	2,342.39	9.35	9.69	-179.01	-306.40	-224.33	684.25	668.26	15.99	42.784	
2,700.00	2,654.92	2,488.25	2,424.39	9.65	10.24	-178.71	-336.26	-230.11	745.66	729.11	16.55	45.047	
2,800.00	2,749.39	2,575.46	2,506.63	9.91	10.79	-179.60	-364.79	-235.32	805.80	788.80	17.00	47.411	
2,900.00	2,843.98	2,652.34	2,579.13	10.20	11.25	-179.23	-389.98	-239.79	865.76	848.43	17.33	49.956	
3,000.00	2,939.26	2,723.31	2,645.95	10.50	11.55	-173.37	-413.58	-243.63	924.25	906.78	17.47	52.904	
3,100.00	3,035.26	2,776.80	2,695.87	10.80	11.73	-168.53	-432.53	-246.80	982.50	965.06	17.44	56.340	
3,200.00	3,132.17	2,844.81	2,758.72	11.08	11.99	-166.00	-458.14	-251.17	1,039.70	1,022.21	17.49	59.449	
3,300.00	3,230.24	2,922.85	2,830.59	11.33	12.31	-167.99	-488.22	-255.60	1,093.22	1,075.63	17.60	62.120	
3,400.00	3,329.41	3,001.79	2,903.10	11.53	12.66	-165.98	-519.09	-260.18	1,141.75	1,124.03	17.72	64.435	
3,500.00	3,429.20	3,090.10	2,984.02	11.67	13.07	-151.12	-554.14	-264.90	1,184.85	1,166.94	17.90	66.179	
3,600.00	3,529.18	3,187.77	3,073.42	11.78	13.55	-78.53	-593.26	-268.89	1,223.19	1,205.03	18.16	67.362	
3,700.00	3,629.18	3,292.65	3,169.68	11.88	14.09	49.07	-634.76	-272.39	1,259.86	1,241.38	18.48	68.174	
3,800.00	3,728.88	3,399.88	3,268.49	11.98	14.64	73.69	-676.28	-275.59	1,294.19	1,275.33	18.86	68.621	
3,900.00	3,827.12	3,529.09	3,388.57	12.10	15.31	72.20	-723.83	-279.34	1,324.25	1,304.83	19.42	68.194	
4,000.00	3,922.72	3,618.78	3,472.48	12.21	15.78	69.89	-755.42	-281.76	1,349.13	1,329.29	19.84	67.989	
4,100.00	4,012.89	3,699.83	3,547.95	12.35	16.21	68.33	-784.77	-285.19	1,370.31	1,349.97	20.34	67.374	
4,200.00	4,094.29	3,822.87	3,662.99	12.53	16.87	68.66	-828.16	-289.82	1,384.84	1,363.58	21.26	65.138	
4,300.00	4,164.77	3,920.12	3,754.69	12.78	17.38	69.49	-860.39	-293.04	1,391.82	1,369.52	22.30	62.416	
4,400.00	4,222.27	3,987.04	3,817.89	13.18	17.73	71.88	-882.28	-295.30	1,395.77	1,372.27	23.50	59.398	
4,500.00	4,264.02	4,035.93	3,863.99	13.88	17.99	72.71	-898.44	-297.17	1,399.56	1,374.59	24.98	56.038	
4,600.00	4,287.83	4,102.59	3,926.96	14.93	18.35	74.73	-920.18	-299.55	1,400.23	1,373.34	26.89	52.067	
4,695.16	4,293.54	4,133.30	3,956.10	16.20	18.51	75.92	-929.82	-300.47	1,399.86	1,371.11	28.76	48.679	
4,700.00	4,291.81	4,132.78	3,955.61	16.27	18.50	75.96	-929.66	-300.45	1,399.25	1,370.40	28.85	48.501	
4,800.00	4,286.91	4,141.00	3,963.42	17.83	18.55	76.26	-932.20	-300.75	1,402.96	1,372.17	30.79	45.565	
4,900.00	4,282.68	4,141.00	3,963.42	19.55	18.55	76.30	-932.20	-300.75	1,414.13	1,381.45	32.68	43.267	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design:	W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 761H - Original Hole - Surveys Original Hole											Offset Site Error:	0.00 ft
Survey Program:	431-MWD, 2703-MWD, 12833-MWD											Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,278.03	4,151.84	3,973.72	21.39	18.60	76.59	-935.51	-301.28	1,432.57	1,397.95	34.63	41.370	



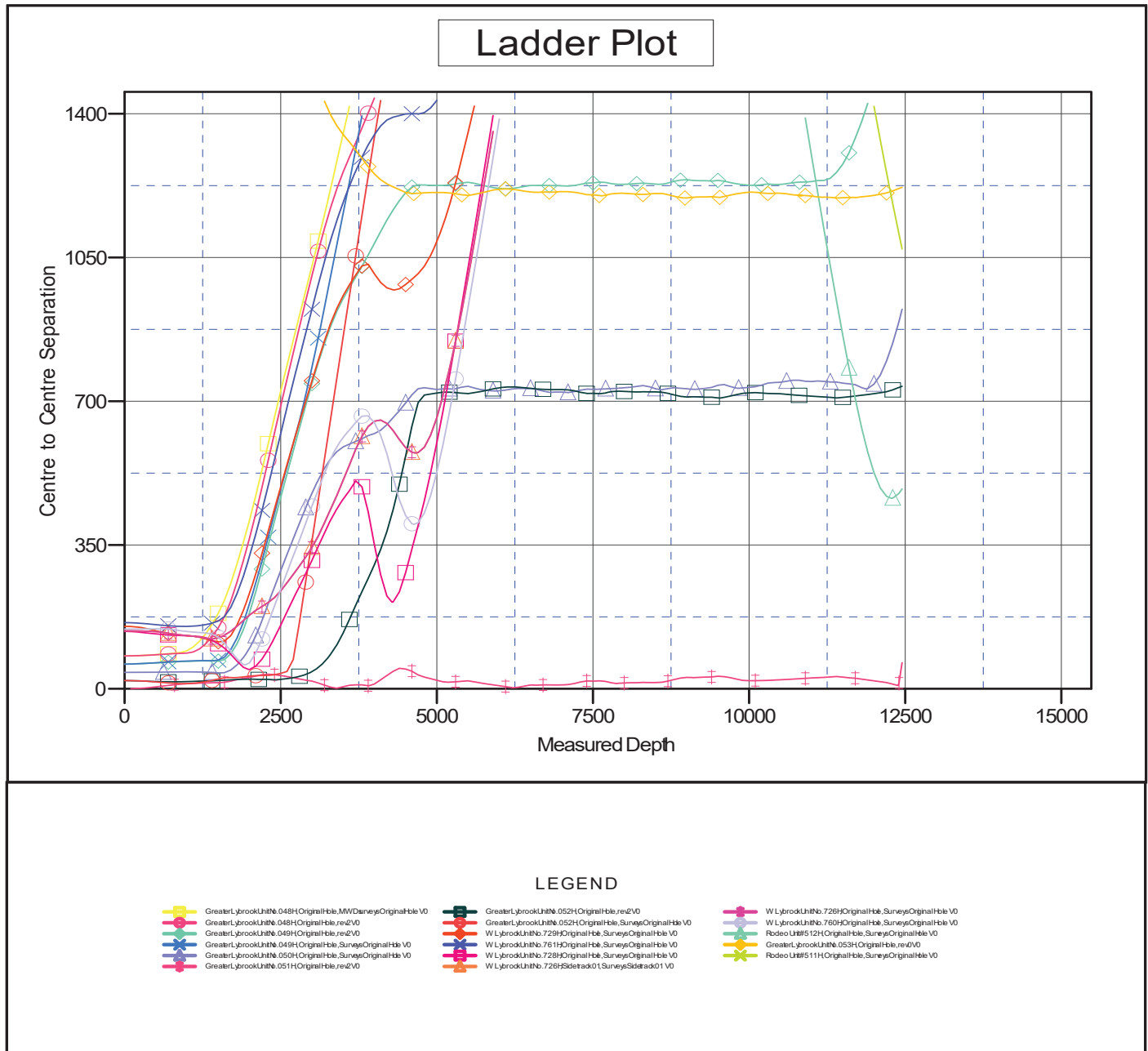
Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6747+25 @ 6772.00ft (Aztec 10
Offset Depths are relative to Offset Datum
Central Meridian is -107.833333333

Coordinates are relative to: Greater Lybrook Unit No. 051H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.04°



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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 051H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 051H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6747+25 @ 6772.00ft (Aztec 10

Offset Depths are relative to Offset Datum

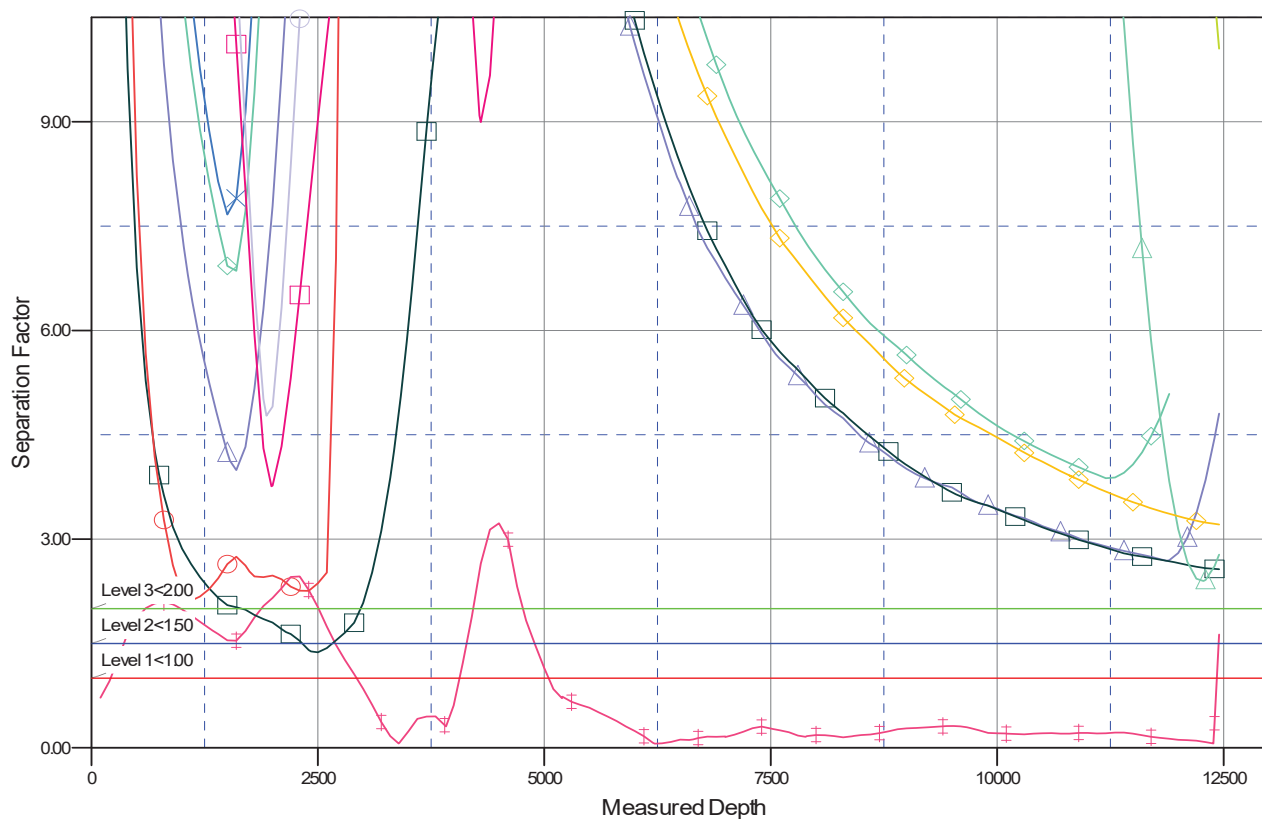
Central Meridian is -107.833333333

Coordinates are relative to: Greater Lybrook Unit No. 051H

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

Grid Convergence at Surface is: 0.04°

Separation Factor Plot



LEGEND

GreaterLybrookUnitNo.048HOriginalHole,MWDsurveysOriginalHole V0	GreaterLybrookUnitNo.052HOriginalHole,rev2V0	W LybrookUnitNo.726HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.048HOriginalHole,rev2V0	GreaterLybrookUnitNo.052HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.750HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.049HOriginalHole,rev2V0	W LybrookUnitNo.729HOriginalHole,SurveysOriginalHole V0	Rodeo Unit#512HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.049HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.761HOriginalHole,SurveysOriginalHole V0	GreaterLybrookUnitNo.053HOriginalHole,rev2V0
GreaterLybrookUnitNo.050HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.728HOriginalHole,SurveysOriginalHole V0	Rodeo Unit#511HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.051HOriginalHole,rev2V0	W LybrookUnitNo.726HSideRad01,SurveysSideRad01 V0	

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

WELL NAME: GREATER LYBROOK UNIT 051H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Cms formation

API Number: 30-045-38282

AFE Number: DV03079

ER Well Number: NM08274.01

State: New Mexico

County: San Juan

Surface Elev.: 6,747 ft ASL (GL) 6,772 ft ASL (KB)

Surface Location: 23-23N-09W Sec-Twn- Rng 444 ft FSL 714 ft FWL

BH Location: 25-23N-09W Sec-Twn- Rng 232 ft FSL 1565 ft FWL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 1.2 miles to 4-way intersection; Right (West) exiting CR #7890 along existing roadway for 0.6 mile to fork; Left (West) for 0.7 miles to fork in roadway; Right (Northwest) for 0.2 miles to W LYBROOK UNIT 726H PAD & 726H EXPANSION (777H, 778H, 779H, 780H, 781H).

QUICK REFERENCE

Sur TD (MD)	365 ft
Int TD (MD)	2,696 ft
KOP (MD)	4,398 ft
KOP (TVD)	4,187 ft
Target (TVD)	4,229 ft
Curve BUR	10 °/100 ft
POE (MD)	4,500 ft
TD (MD)	12,441 ft
Lat Len (ft)	7,852 ft

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	365	13.375	54.5	J-55	BTC	0	365
Intermediate	12.250	2,696	9.625	36.0	J-55	LTC	0	2,696
Production	8.500	12,441	5.50	17.0	P-110	BTC.	0	12,441

CEMENT PROPERTIES SUMMARY:

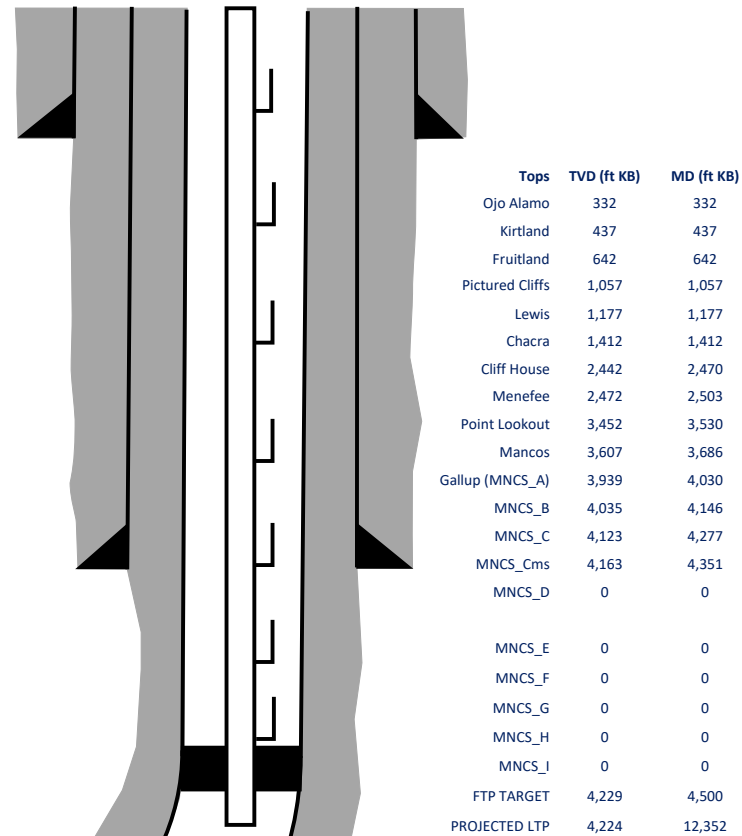
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	% Excess	TOC (ft MD)	Total (sx)	
Surface	TYPE III	14.6	1.39	6.686	100%	0	353	
Inter. (Lead)	10 Type III:P	12.5	2.14	12.05	70%	0	491	
Inter. (Tail)	Type III	14.6	1.38	6.64	20%	2,122	137	
Prod. (Lead)	ASTM type I/I	12.4	2.370	13.4	50%	0	470	
Prod. (Tail)	TegraGuard S	13.3	1.570	7.7	10%	4030	1405	

COMPLETION / PRODUCTION SUMMARY:

Frac: Calculated cement volumes assume gauge hole and the excess noted in table

Flowback: American Cementing Liner & Production Blend

Production: LCM will be added to spacer. LCM may be added lead slurry and tail slurry depending on drilling observations



Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R9W / SEC 23 / SWSW / 36.206373 / -107.764682	County or Parish/State: SAN JUAN / NM
Well Number: 051H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: NOG13121863	Unit or CA Name: Greater Lybrook	Unit or CA Number: NMNM144419X
US Well Number: 3004538282	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Subsequent Report

Sundry ID: 2747876

Type of Submission: Subsequent Report

Date Sundry Submitted: 08/24/2023

Date Operation Actually Began: 06/05/2023

Type of Action: Hydraulic Fracturing

Time Sundry Submitted: 01:40

Actual Procedure: 6/5/2023 thru 6/8/2023- Pre frac site set up, MIRU, Pressure test 6/13/2023 thru 7/3/2023- 24 hour Frac Ops. 33 total stages, total holes 1386. Perfed interval 4510 - 12380' MD. Perfed w 0.31" holes with ProSurf 170, ProSlick 579, ProChek 172, ProSta 170, and 10,401,500 lbs total proppant 7/11/2023 thru 7/14/2023 – Drilling out operations 7/14/2023 - tubing landed at 4,628.84' TVD

SR Attachments

Actual Procedure

5_completion_GLU_051H_20230824134033.pdf

Received by OCD: 9/6/2023 7:58:27 AM

Page 44 of 56

Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R9W / SEC 23 / SWSW / 36.206373 / -107.764682	County or Parish/State: SAN JUAN / NM
Well Number: 051H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: N0G13121863	Unit or CA Name: Greater Lybrook	Unit or CA Number: NMNM144419X
US Well Number: 3004538282	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KAYLA WHITE	Signed on: AUG 24, 2023 01:40 PM
Name: ENDURING RESOURCES LLC	
Title: Staff Engineer	
Street Address: PO BOX 4190	
City: PARKER	State: CO
Phone: (720) 768-3575	
Email address: KWHITE@CDHCONSULT.COM	

Field

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

BLM Point of Contact

BLM POC Name: MATTHEW H KADE	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647736	BLM POC Email Address: MKADE@BLM.GOV
Disposition: Accepted	Disposition Date: 08/25/2023
Signature: Matthew Kade	



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

Well Completion Print

09/06/2023

Operator Name ENDURING RESOURCES LLC	Well Name GREATER LYBROOK UNIT	Well Number 051H	US Well Number 3004538282
SHL SWSW Sec 23 23N 9W	County SAN JUAN	State NM	Lease Number(s) N0G13121863
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080754
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Section 1 - General

Well Completion Report Id: 89062**Submission Date:** 08-22-2023**BLM Office:** Farmington Field Office**User:** KAYLA WHITE**Title:** Staff Engineer**Federal/Indian:** INDIAN**Lease Number:** N0G13121863**Lease Acres:****Agreement in place?:** YES**Federal or Indian Agreement:****Agreement Number:****Agreement Name:** Greater Lybrook**Additional Information****Keep this Well Completion Report confidential?:****APD Operator:** ENDURING
RESOURCES LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:****Field Name:** LYBROOK MANCOS W**Well Type:** OIL WELL**Spud Date:** 03-06-2023**Date Total Measured Depth Reached:** 05-09-2023**Drill & Abandon or Ready To Produce:** READY TO**Well Class:** HORIZONTAL

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 051H	US Well Number 3004538282
	County SAN JUAN	State NM	Lease Number(s) N0G13121863
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080754
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
NACIMIENTO	SANDSTONE, SHALE		7028	0	0	USEABLE WATER	
OJO ALAMO	SANDSTONE, SHALE		6693	335	335	USEABLE WATER	
KIRTLAND	COAL, SHALE		6588	440	440	COAL, NATURAL GAS	
FRUITLAND	COAL		6383	645	645	COAL	
PICTURED CLIFFS	SANDSTONE		5993	1035	1035	NATURAL GAS	
LEWIS	SHALE		5873	1155	1155	NATURAL GAS	
CHACRA	SANDSTONE, SHALE		5613	1415	1415	NATURAL GAS	
CLIFFHOUSE	SANDSTONE		4573	2455	2489	NATURAL GAS	
MENEFEE	COAL, SANDSTONE, SHALE		4553	2475	2511	NATURAL GAS	
POINT LOOKOUT	SANDSTONE, SHALE		3591	3437	3539	NATURAL GAS	
MANCOS	SHALE		3443	3585	3697	NATURAL GAS, OIL	
GALLUP	SHALE		3093	3935	4071	NATURAL GAS, OIL	

Completion and Completed

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 051H	US Well Number 3004538282
	County SAN JUAN	State NM	Lease Number(s) NOG13121863
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080754
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM105803962	NOG13121863	NEW		POW	07-23-2023	07-23-2023	GALLUP	4013	4517	Y	.31	1386	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	N				

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1			FLOWS FROM WELL		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 051H	US Well Number 3004538282
	County SAN JUAN	State NM	Lease Number(s) N0G13121863
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080754
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	07/31/2023	24	26	757	0	29115	64/64	211		803

Well Location

Survey Type: RECTANGULAR

Survey Number: 15269

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Acquiduct/Contact
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.206373	-107.764682	6747	N/A	N/A	INDIAN	N0G13121863				444	FSL	714	FWL	23N	9W	23	SW
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.206373	-107.764682	6747	3744	0	INDIAN	N0G13121863				444	FSL	714	FWL	23N	9W	23	SW
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.206768	-107.762831	2515	4706	4232	INDIAN	NMNM036949				586	FSL	1260	FWL	23N	9W	23	SW
EXIT Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.191296	-107.744125	2515	12357	4232	INDIAN	NMNM36949				234	FSL	1564	FWL	23N	9W	25	SE

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 051H	US Well Number 3004538282
	County SAN JUAN	State NM	Lease Number(s) N0G13121863
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080754
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Acquiduct/Tract
BHL Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.191161	-107.74398	2515	12357	4232	INDIAN	NMNM36949				185	FSL	1607	FWL	23N	9W	25	SE

Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	365	13.375	54.5	J-55		BUTT		
00	INTERMEDIATE	12.25	0	2697	9.625	36	J-55		LT&C		
00	PRODUCTION	8.5	0	12442	5.5	17	P-110		LT&C		

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 051H	US Well Number 3004538282
	County SAN JUAN	State NM	Lease Number(s) NOG13121863
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080754
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield (cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		Type III	353	1.39	0					87.4
00	INTERMEDIATE		Type III: POZ Blend	491	2.14	0	Type III	137	1.38	1981	220.8
00	PRODUCTION		Type I/II	470	2.26	0	Class G:POZ Blend	1405	1.57	3658	582

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		4628		6	L-80		OTHER	EUE

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	NO	NO	NO	YES	NO	YES

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 051H	US Well Number 3004538282
	County SAN JUAN	State NM	Lease Number(s) N0G13121863
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080754
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: ENDURING RESOURCES LLC

Signed By: KAYLA WHITE

Title: Staff Engineer

Signed on: 08/24/2023

Street Address: PO BOX 4190

City: PARKER

State: CO

Zip: 80134

Phone: (720)768-3575

Email address: KWHITE@CDHCONSULT.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Attachments

List_of_Leases_GLU_051H_20230822095059.pdf

Enduring_Greater_Lybrook_Unit_051H_AC_final_surveys_to_12451_MD_20230822095100.pdf

Greater_Lybrook_Unit_051H_As_Drilled_C_102_Platt_SIGNED_20230822095103.pdf

GLU_051H_WBD_06022023_20230822095109.pdf

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED

OMB NO. 1004-

0137

Expires: January 31, 2018

5. Lease Serial No.

N0-G-1312-1863

1a. Type of Well ☒ Oil Well ☐ Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing
☐ Other: _____

6. If Indian, Allottee or Tribe Name Eastern Navajo

7. Unit or CA Agreement Name and No.
NMNM144419A

2. Name of Operator

Enduring Resources IV LLC

8. Lease Name and Well No.

Greater Lybrook Unit 051H

3. Address

200 Energy Court Farmington NM 87402

3a. Phone No. (Include area code)

505-636-9743

9. API Well No.

30-045-38282

4. Location of Well (Report location clearly and in accordance with Federal requirements) *

At surface

SHL: 444' FSL & 714' FWL, Sec 23 T23N, R9W

BHL: 232' FSL & 1565' FWL, Sec 25 T23N, R9W

At top prod. interval reported below At total depth

10. Field and Pool or Exploratory
Lybrook Mancos W

11. Sec., T., R., M., on Block and
Survey or Area

Sec 23 T23N R9W

12. County or Parish
San Juan

13. State
NM

14. Date Spudded

3/6/2023

15. Date T.D. Reached

5/9/2023

16. Date Completed 7/23/2023

☐ D & A

☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*

6772' KB

18. Total Depth: **12,441.55' MD**

4,227' TVD

19. Plug Back T.D.: **12,380.7' MD**

4,229' TVD

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored?

☒ No

☐ Yes (Submit analysis)

Was DST run?

☒ No

☐ Yes (Submit report)

Directional Survey?

☐ No

☒ Yes (Submit copy)

Form 3160-4

(June 2015)

UNITED STATES

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8", J-55	54.5	0	365' MD		353	87	surface	
12-1/4"	9-5/8", J-55	36	0	2696.9' MD		628	220	surface	
8-1/2"	5-1/2", P-110	17	0	12441.55' MD		1875	581	surface	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8", 6.5#, L-80	4628.84'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
MNCS_A	3939' TVD	4260' TVD	4510 - 12380' MD	.31	1386	

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
4510 - 12380' MD	24 hour Frac Ops. 33 total stages, total holes 1386. Perfed interval 4510 - 12380' MD. Perfed w 0.31" holes with ProSurf 170, ProSlick 579, ProChek 172, ProSta 170, and 10,401,500 lbs total proppant

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
7/23/2023	7/31/2023	24 hr	➡	26	757	0			Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	211	803	➡					Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
			➡						

Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
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*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
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Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
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28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
---------------------	-----------	--------------	----------------------	---------	---------	-----------	------------------------	-------------	-------------------

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
------------	----------------------	-------------	------------------	---------	---------	-----------	---------------	-------------

28. Disposition of Gas (Solid, used for fuel, vented, etc.) Sold

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, fl and shut-in pressures and recoveries.	31. Formation (Log) Markers
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Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
-----------	-----	--------	------------------------------	------	--------------------

OJAM 332
 KRLD 437
 FRLD 642
 PCCF 1057
 CLFH_BASAL 2442
 MENF 2472
 PNLC 3452
 MNCS 3607
 Gallup (MNCS_A) 3939

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions) *

Name (please print) Kayla White Title Environmental Engineer
 Signature Kayla White Date: 8/18/2023

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

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

ACKNOWLEDGMENTS

Action 262245

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 262245
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 262245

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 262245
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	Future Submittal regarding the AFMSS Completion Report page 3 Completion Data See Highlighted Perforations Top/Bottom are incorrect should reflect what is on your Completion Sundry.	10/12/2023