

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-045-38278	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number #050H

II. ¹⁰ Surface Location

UL or lot no. M	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 417'	North/South Line SOUTH	Feet from the 685'	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no. M	Section 25	Township 23N	Range 9W	Lot Idn	Feet from the 192'	North/South line South	Feet from the 783'	East/West line West	County SAN JUAN
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 7/12/2023		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	WESTERN REFINING COMPANY, LLC	O
373888	HARVEST FOUR CORNERS. LLC	G

IV. Well Completion Data

²¹ Spud Date 3/3/2023	²² Ready Date 7/12/2023	²³ TD 12135' MD 4644' TVD	²⁴ PBTD 12052.6' MD 4646' TVD	²⁵ Perforations ~ 4841' - 12053' MD ~ 4633'-4646' TVD	²⁶ DHC, MC R-22081	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		370.61' MD		352 sx- surface
12-1/4"		9-5/8",36#, J-55		2616.6' MD		628 sx- surface
8-1/2"		5-1/2",17#, P-110		12134.95' MD		1814 sx- surface

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Lena Wilson</i>			OIL CONSERVATION DIVISION		
Printed name: Lena Wilson			Approved by: <i>PATRICIA MARTINEZ</i>		
Title: Regulatory Agent			Title: <i>PETROLEUM SPECIALIST</i>		
E-mail Address: lwilson@enduringresources.com			Approval Date: <i>6/7/2023</i>		
Date: 5/25/2023		Phone: 253-737-3540	<i>RT EXPIRES 10/12/2023</i>		



ENDURING RESOURCES IV LLC

May 25, 2023

Re: GREATER LYBROOK UNIT 050H-30-045-38278

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 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
Phone: (505) 476-3460 Fax: (505) 476-3462Submit one copy to
Appropriate District OfficeOIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

⁴ API Number 30-045-38278	⁵ Pool Code 98157	⁶ Pool Name LYBROOK MANCOS W
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT	⁹ Well Number 050H
¹⁰ GRID No. 372286	¹¹ Operator Name ENDURING RESOURCES, LLC	¹² Elevation 6747'

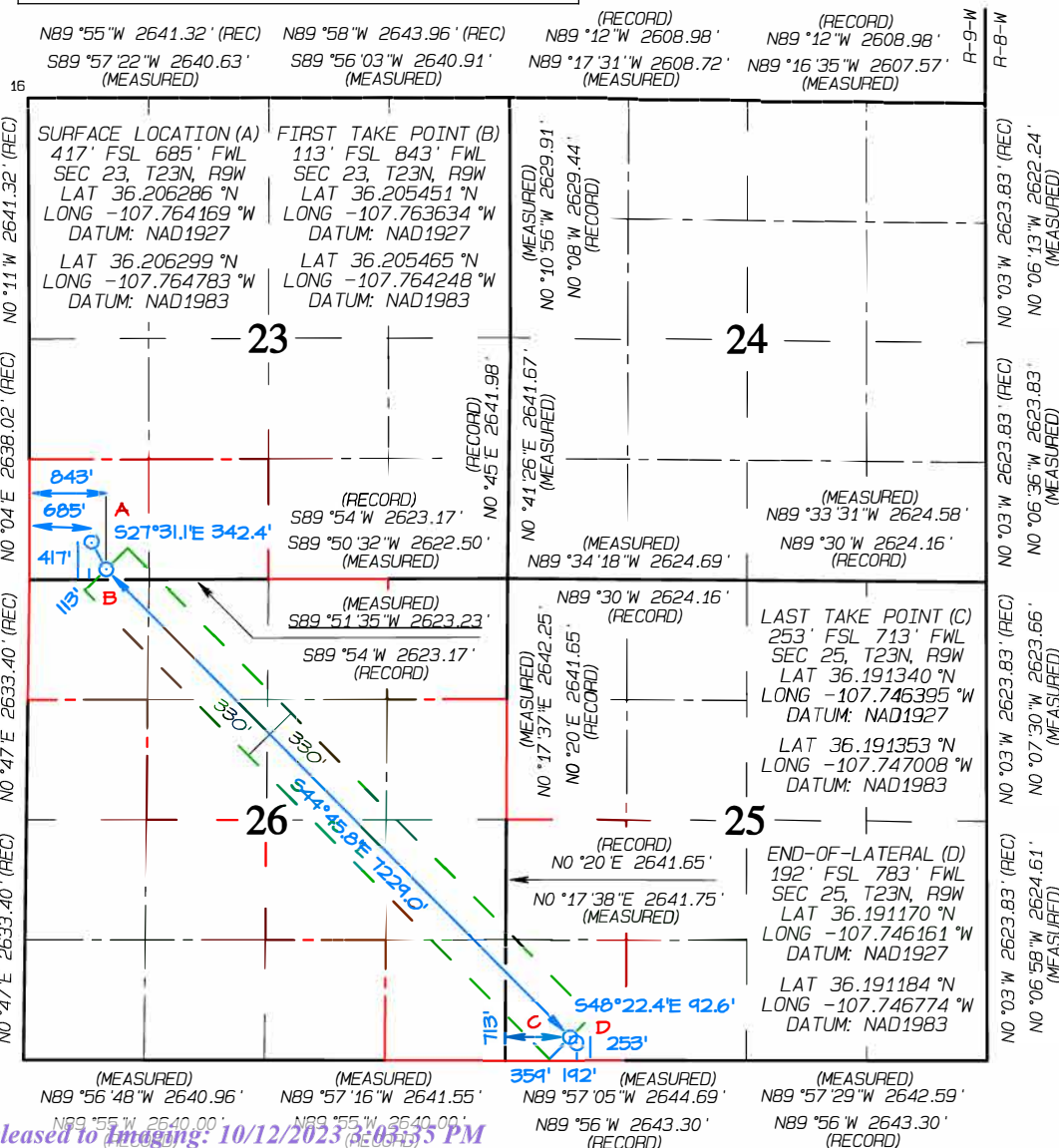
¹⁰ Surface Location

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		417	SOUTH	685	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
M	25	23N	9W		192	SOUTH	783	WEST	SAN JUAN

¹² Dedicated Acres 520.0	S/2 SW/4 - Section 23 W/2 SW/4 - Section 25 N/2 NW/4, SE/4 NW/4 W/2 NE/4, SE/4 NE/4 N/2 SE/4, SE/4 SE/4 - Section 26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-22081
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

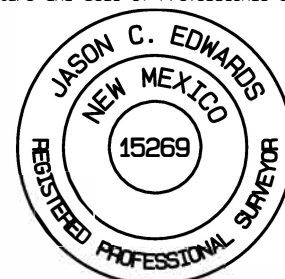
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this 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 30, 2023
Date of Survey: MAY 20, 2021
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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⁴ API Number 30-045-38278	⁵ Pool Code 98157	⁶ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 050H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6747'

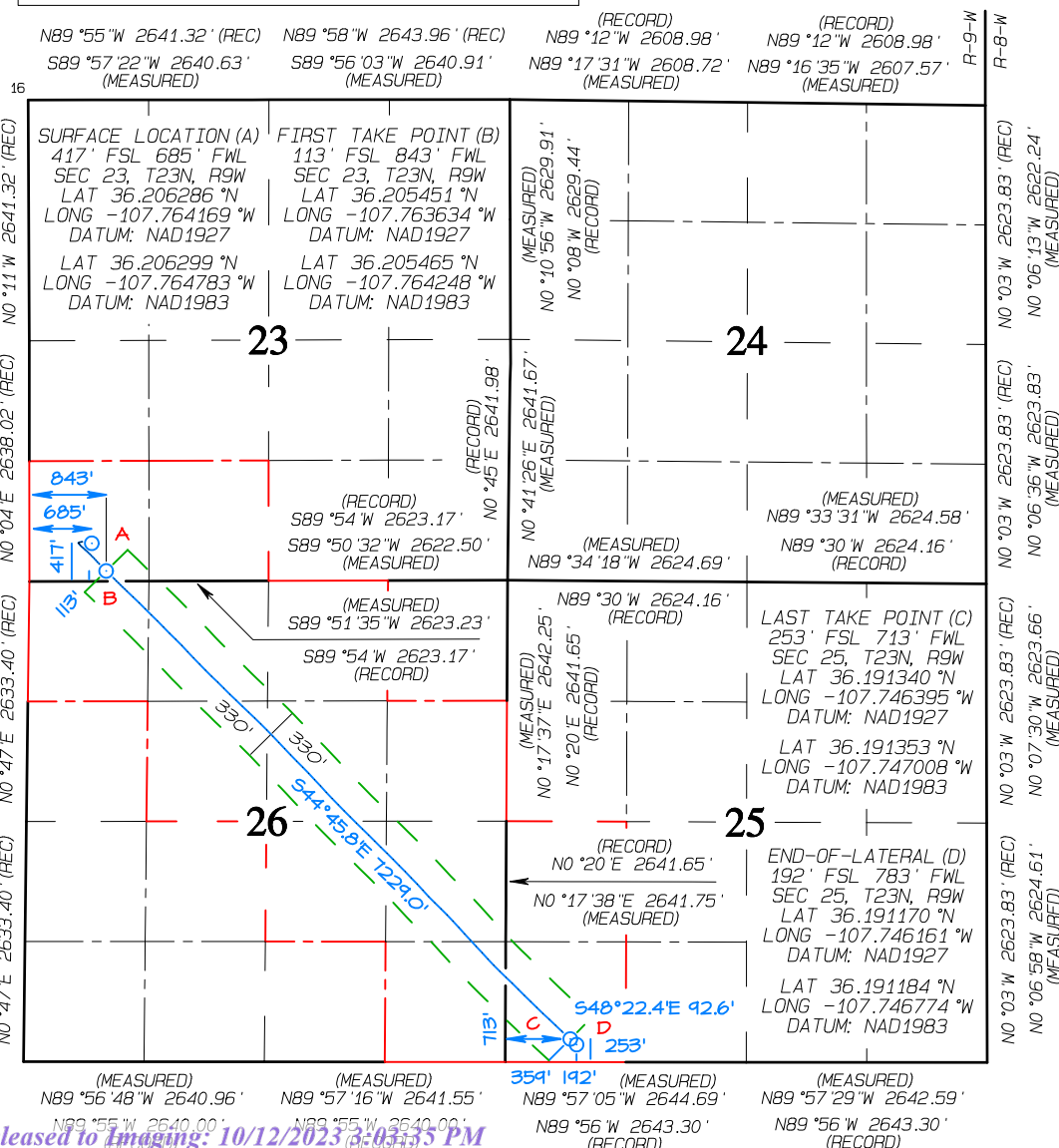
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¹¹ Bottom Hole Location If Different From Surface

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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				





Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
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. 050H	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 1,415.60ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Program	Date	4/26/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
416.00	2,466.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard
2,565.00	12,089.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
12,156.00	12,156.00	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 Pad (48,49,50,51 & 52)						
Greater Lybrook Unit No. 048H - Original Hole - MWD su	0.00	0.00	39.92			
Greater Lybrook Unit No. 048H - Original Hole - MWD su	200.00	199.98	40.31	39.65	61.922 ES	
Greater Lybrook Unit No. 048H - Original Hole - MWD su	1,000.00	996.58	51.58	46.02	9.276 SF	
Greater Lybrook Unit No. 048H - Original Hole - rev2	0.00	0.00	39.92			
Greater Lybrook Unit No. 048H - Original Hole - rev2	300.00	300.00	40.68	39.33	30.248 ES	
Greater Lybrook Unit No. 048H - Original Hole - rev2	12,000.00	12,157.74	1,230.93	888.57	3.595 SF	
Greater Lybrook Unit No. 049H - Original Hole - rev2	0.00	0.00	19.95			
Greater Lybrook Unit No. 049H - Original Hole - rev2	1,400.00	1,399.94	27.88	18.86	3.092 ES	
Greater Lybrook Unit No. 049H - Original Hole - rev2	1,500.00	1,499.90	28.80	19.07	2.960 SF	
Greater Lybrook Unit No. 049H - Original Hole - Surveys	0.00	0.00	19.95			
Greater Lybrook Unit No. 049H - Original Hole - Surveys	200.00	199.98	20.37	19.72	31.301 ES	
Greater Lybrook Unit No. 049H - Original Hole - Surveys	1,400.00	1,399.86	28.63	20.20	3.397 SF	
Greater Lybrook Unit No. 050H - Original Hole - rev2	100.00	100.00	0.16	-0.11	0.585 Level 1<1.00, CC	
Greater Lybrook Unit No. 050H - Original Hole - rev2	6,228.02	6,228.53	1.02	-28.30	0.035 Level 1<1.00, SF	
Greater Lybrook Unit No. 050H - Original Hole - rev2	12,000.04	11,997.82	24.15	-102.12	0.191 Level 1<1.00, ES	
Greater Lybrook Unit No. 051H - Original Hole - rev2	1,603.76	1,603.60	33.14	22.67	3.165 CC, ES	
Greater Lybrook Unit No. 051H - Original Hole - rev2	12,156.00	11,826.43	720.74	455.07	2.713 SF	
Greater Lybrook Unit No. 051H - Original Hole - Surveys	1,540.89	1,540.63	38.52	29.08	4.079 CC, ES	
Greater Lybrook Unit No. 051H - Original Hole - Surveys	1,600.00	1,598.68	39.35	29.49	3.993 SF	
Greater Lybrook Unit No. 052H - Original Hole - rev2	1,514.20	1,513.69	53.31	43.48	5.424 CC, ES	
Greater Lybrook Unit No. 052H - Original Hole - rev2	12,156.00	12,356.35	1,193.47	842.53	3.401 SF	
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,339.95	1,339.75	52.60	44.67	6.629 CC	
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,400.00	1,399.13	52.95	44.60	6.341 ES	
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,600.00	1,597.28	58.58	48.84	6.016 SF	
Rodeo Unit 511 pad (511, 512 & 513)						
Rodeo Unit #512H - Original Hole - Surveys Original Hole	12,156.00	4,425.00	545.28	486.99	9.354 CC, ES, SF	
Rodeo Unit #513H - Original Hole - Surveys Original Hole	12,156.00	4,978.21	1,024.17	836.82	5.467 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. 050H
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. 050H	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	1,183.33	1,185.98	144.36	137.55	21.193	CC
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,200.00	1,202.35	144.39	137.46	20.832	ES
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,600.00	1,588.38	164.99	155.14	16.746	SF
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,183.33	1,185.98	144.36	137.55	21.193	CC
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,200.00	1,202.35	144.39	137.46	20.832	ES
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,600.00	1,588.38	164.99	155.14	16.746	SF
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,743.25	1,752.70	113.26	102.36	10.389	CC, ES
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,800.00	1,806.48	114.49	103.15	10.100	SF
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,611.67	1,621.18	82.26	71.98	8.008	CC, ES
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,700.00	1,705.45	85.69	74.74	7.830	SF
W Lybrook Unit No. 760H - Original Hole - Surveys Origin	2,026.67	2,044.07	39.71	26.54	3.016	CC, ES, SF
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,371.04	1,377.77	135.78	127.60	16.598	CC
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,400.00	1,406.89	135.84	127.44	16.178	ES
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,600.00	1,598.50	145.20	135.32	14.697	SF

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				Rule Assigned:								Offset Well Error: 0.00 ft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			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	0.00	0.00	0.00	0.00	-131.77	-26.59	-29.78	39.92					
100.00	100.00	99.99	99.99	0.13	0.17	-121.30	-26.55	-29.84	40.02	39.72	0.30	132.068		
200.00	200.00	199.98	199.98	0.31	0.34	-121.56	-26.41	-30.02	40.31	39.65	0.65	61.922	ES	
300.00	300.00	299.97	299.97	0.49	0.51	-121.98	-26.18	-30.31	40.78	39.78	1.00	40.832		
400.00	399.99	399.95	399.95	0.67	0.67	-122.55	-25.85	-30.73	41.46	40.11	1.35	30.783		
500.00	499.98	500.02	500.01	1.00	1.00	-127.96	-25.34	-31.25	42.35	40.35	2.00	21.126		
600.00	599.96	599.86	599.85	1.36	1.36	-127.97	-24.73	-31.93	43.54	40.81	2.72	15.997		
700.00	699.95	699.72	699.71	1.72	1.72	-130.38	-24.41	-32.81	44.75	41.31	3.44	13.020		
800.00	799.95	799.68	799.66	2.08	2.07	-129.59	-24.38	-33.69	45.90	41.75	4.15	11.060		
900.00	899.95	899.01	898.99	2.44	2.43	-121.32	-24.64	-34.62	47.15	42.29	4.86	9.700		
1,000.00	999.95	996.58	996.44	2.79	2.77	-119.65	-26.32	-38.77	51.58	46.02	5.56	9.276	SF	
1,100.00	1,099.95	1,093.24	1,092.60	3.15	3.13	-124.68	-30.05	-47.74	61.35	55.10	6.25	9.821		
1,200.00	1,199.94	1,189.05	1,187.38	3.51	3.50	-133.15	-36.36	-60.21	75.88	68.96	6.92	10.967		
1,300.00	1,299.94	1,283.32	1,279.95	3.87	3.88	-154.54	-46.17	-75.04	95.07	87.51	7.57	12.561		
1,400.00	1,399.94	1,375.75	1,369.84	4.22	4.28	-161.73	-59.98	-91.45	118.89	110.69	8.20	14.498		
1,500.00	1,499.94	1,465.88	1,456.50	4.58	4.71	-161.65	-77.05	-109.41	147.13	138.33	8.80	16.717		
1,600.00	1,599.93	1,553.91	1,540.01	4.93	5.17	-139.96	-95.76	-129.98	179.39	170.00	9.39	19.106		
1,700.00	1,699.93	1,642.46	1,622.97	5.29	5.67	-128.80	-115.44	-153.87	214.60	204.59	10.00	21.456		
1,800.00	1,799.93	1,735.49	1,709.77	5.65	6.23	-104.57	-136.02	-180.27	250.75	240.05	10.70	23.441		
1,900.00	1,899.93	1,829.72	1,797.75	6.01	6.82	-103.21	-156.52	-207.07	286.64	275.22	11.41	25.113		
2,000.00	1,999.90	1,924.51	1,886.34	6.36	7.42	-43.92	-176.84	-233.96	320.88	308.75	12.13	26.455		
2,100.00	2,099.70	2,022.14	1,977.73	6.71	8.04	-44.96	-197.31	-261.56	351.86	338.99	12.87	27.336		
2,200.00	2,199.30	2,122.93	2,072.53	7.06	8.69	-46.73	-217.44	-289.26	379.89	366.23	13.66	27.813		
2,300.00	2,298.85	2,219.61	2,163.70	7.42	9.31	-47.20	-236.96	-314.80	406.98	392.58	14.40	28.260		
2,400.00	2,398.39	2,314.71	2,253.33	7.78	9.92	-46.39	-256.48	-339.88	434.19	419.06	15.13	28.690		
2,500.00	2,497.95	2,412.33	2,345.34	8.08	10.55	-45.32	-276.54	-365.61	461.37	445.53	15.83	29.136		
2,600.00	2,597.52	2,515.42	2,442.78	8.21	11.21	-44.40	-297.31	-392.11	487.71	471.28	16.43	29.687		
2,700.00	2,697.09	2,618.05	2,540.32	8.25	11.85	-44.44	-317.07	-417.16	512.36	495.43	16.92	30.275		
2,800.00	2,796.69	2,646.00	2,566.92	8.30	12.02	-42.12	-322.35	-423.91	541.13	524.49	16.64	32.515		

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. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
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Reference Well:	Greater Lybrook Unit No. 050H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation	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)			
2,900.00	2,896.32	2,646.00	2,566.92	8.37	12.02	-39.62	-322.35	-423.91	585.14	569.27	15.87	36.876	
3,000.00	2,995.99	2,646.00	2,566.92	8.46	12.02	-38.50	-322.35	-423.91	641.91	626.87	15.03	42.694	
3,100.00	3,095.65	2,646.00	2,566.92	8.56	12.02	-37.42	-322.35	-423.91	708.26	693.99	14.26	49.662	
3,200.00	3,195.34	2,646.00	2,566.92	8.68	12.02	-36.49	-322.35	-423.91	781.87	768.26	13.60	57.482	
3,300.00	3,295.04	2,646.00	2,566.92	8.81	12.02	-34.36	-322.35	-423.91	860.83	847.77	13.06	65.895	
3,400.00	3,394.76	2,646.00	2,566.92	8.95	12.02	-31.22	-322.35	-423.91	943.80	931.17	12.64	74.679	
3,500.00	3,494.46	2,646.00	2,566.92	9.11	12.02	-29.40	-322.35	-423.91	1,029.58	1,017.27	12.31	83.663	
3,600.00	3,594.16	2,646.00	2,566.92	9.28	12.02	-23.75	-322.35	-423.91	1,117.65	1,105.60	12.05	92.720	
3,700.00	3,693.91	2,646.00	2,566.92	9.46	12.02	-16.02	-322.35	-423.91	1,207.60	1,195.73	11.87	101.754	
3,800.00	3,793.72	2,646.00	2,566.92	9.64	12.02	-11.48	-322.35	-423.91	1,299.33	1,287.59	11.75	110.619	
3,900.00	3,893.71	2,646.00	2,566.92	9.82	12.02	18.26	-322.35	-423.91	1,393.75	1,382.06	11.69	119.200	



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
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. 050H	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)	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	-131.77	-26.59	-29.78	39.92				
100.00	100.00	100.00	100.00	0.13	0.13	-121.41	-26.59	-29.78	40.01	39.74	0.27	148.726	
200.00	200.00	200.00	200.00	0.31	0.49	-121.98	-26.59	-29.78	40.25	39.45	0.81	49.889	
300.00	300.00	300.00	300.00	0.49	0.85	-122.92	-26.59	-29.78	40.68	39.33	1.34	30.248 ES	
400.00	399.99	399.99	399.99	0.67	1.21	-124.20	-26.59	-29.78	41.29	39.40	1.88	21.929	
500.00	499.98	499.98	499.98	1.00	1.57	-130.57	-26.59	-29.78	42.20	39.63	2.57	16.414	
600.00	599.96	599.96	599.96	1.36	1.93	-131.73	-26.59	-29.78	43.40	40.11	3.29	13.197	
700.00	699.95	699.95	699.95	1.72	2.29	-135.15	-26.59	-29.78	44.27	40.27	4.01	11.054	
800.00	799.95	799.95	799.95	2.08	2.64	-135.13	-26.59	-29.78	44.89	40.16	4.72	9.505	
900.00	899.95	899.95	899.95	2.44	3.00	-127.41	-26.59	-29.78	45.32	39.88	5.44	8.333	
1,000.00	999.95	999.88	999.88	2.79	3.36	-127.69	-26.60	-29.78	45.54	39.39	6.15	7.400	
1,100.00	1,099.95	1,097.50	1,097.45	3.15	3.68	-135.31	-28.25	-31.84	48.52	41.69	6.83	7.104	
1,200.00	1,199.94	1,194.57	1,194.21	3.51	4.01	-144.68	-32.98	-37.74	56.50	49.00	7.50	7.538	
1,300.00	1,299.94	1,290.58	1,289.42	3.87	4.35	-165.01	-40.68	-47.35	69.57	61.43	8.14	8.546	
1,400.00	1,399.94	1,385.03	1,382.37	4.22	4.70	-169.89	-51.17	-60.43	87.80	79.04	8.76	10.020	
1,500.00	1,499.94	1,477.49	1,472.43	4.58	5.07	-167.37	-64.20	-76.69	111.08	101.72	9.36	11.867	
1,600.00	1,599.93	1,567.65	1,559.20	4.93	5.47	-144.03	-79.52	-95.80	138.88	128.95	9.93	13.987	
1,700.00	1,699.93	1,655.36	1,642.40	5.29	5.89	-132.04	-96.87	-117.44	170.69	160.22	10.48	16.295	
1,800.00	1,799.93	1,744.81	1,726.05	5.65	6.36	-107.38	-116.67	-142.14	206.19	195.12	11.08	18.613	
1,900.00	1,899.93	1,838.11	1,813.13	6.01	6.88	-105.76	-137.62	-168.27	242.15	230.39	11.76	20.584	
2,000.00	1,999.90	1,931.91	1,900.69	6.36	7.43	-46.34	-158.68	-194.54	276.78	264.33	12.45	22.230	
2,100.00	2,099.70	2,026.66	1,989.12	6.71	8.01	-47.39	-179.96	-221.08	308.63	295.48	13.15	23.478	
2,200.00	2,199.30	2,121.87	2,077.99	7.06	8.60	-49.24	-201.33	-247.74	338.91	325.05	13.86	24.455	
2,300.00	2,298.85	2,217.14	2,166.91	7.42	9.20	-49.68	-222.72	-274.42	368.96	354.37	14.58	25.303	
2,400.00	2,398.39	2,312.47	2,255.89	7.78	9.82	-48.81	-244.13	-301.12	398.91	383.60	15.31	26.048	
2,500.00	2,497.95	2,407.84	2,344.90	8.08	10.44	-47.65	-265.54	-327.83	428.80	412.81	15.99	26.817	
2,600.00	2,597.52	2,503.25	2,433.95	8.21	11.07	-46.60	-286.96	-354.55	458.59	442.08	16.51	27.781	
2,700.00	2,697.09	2,598.71	2,523.05	8.25	11.70	-46.49	-308.39	-381.28	488.28	471.33	16.94	28.816	
2,800.00	2,796.69	2,694.16	2,612.13	8.30	12.34	-44.31	-329.82	-408.02	518.03	500.63	17.40	29.770	
2,900.00	2,896.32	2,789.62	2,701.23	8.37	12.99	-41.92	-351.25	-434.75	547.78	529.91	17.87	30.647	
3,000.00	2,995.99	2,885.06	2,790.32	8.46	13.64	-40.85	-372.68	-461.48	577.61	559.25	18.36	31.457	
3,100.00	3,095.65	2,980.53	2,879.42	8.56	14.29	-39.78	-394.12	-488.22	607.36	588.49	18.87	32.193	
3,200.00	3,195.34	3,075.97	2,968.50	8.68	14.94	-38.76	-415.55	-514.95	637.20	617.82	19.38	32.872	
3,300.00	3,295.04	3,171.41	3,057.58	8.81	15.60	-36.41	-436.98	-541.68	667.06	647.14	19.92	33.493	
3,400.00	3,394.76	3,266.85	3,146.66	8.95	16.25	-32.96	-458.40	-568.40	696.91	676.45	20.46	34.062	
3,500.00	3,494.46	3,362.42	3,235.87	9.11	16.91	-31.06	-479.86	-595.17	726.32	705.30	21.02	34.560	
3,600.00	3,594.16	3,458.04	3,325.12	9.28	17.58	-24.36	-501.33	-621.95	755.58	733.99	21.58	35.008	
3,700.00	3,693.91	3,553.63	3,414.33	9.46	18.24	-15.45	-522.79	-648.72	784.87	762.71	22.15	35.426	
3,800.00	3,793.72	3,648.94	3,503.29	9.64	18.90	-8.71	-544.19	-675.41	814.96	792.23	22.74	35.844	
3,900.00	3,893.71	3,742.70	3,590.80	9.82	19.56	22.55	-565.24	-701.67	849.46	826.14	23.31	36.439	
4,000.00	3,993.71	3,836.20	3,678.07	10.00	20.21	17.39	-586.24	-727.86	884.65	860.76	23.89	37.032	
4,100.00	4,093.56	3,929.50	3,765.16	10.18	20.86	81.46	-607.18	-753.99	919.57	895.12	24.45	37.608	
4,200.00	4,191.71	4,020.88	3,850.45	10.34	21.50	83.23	-627.70	-779.58	953.61	928.64	24.97	38.195	
4,300.00	4,285.99	4,107.66	3,931.44	10.50	22.11	86.54	-647.18	-803.88	988.58	963.12	25.47	38.817	
4,400.00	4,374.16	4,187.09	4,005.58	10.66	22.66	86.84	-665.02	-826.13	1,026.87	1,000.87	26.00	39.491	
4,500.00	4,454.00	4,265.46	4,078.73	10.84	23.21	84.17	-683.11	-847.60	1,066.48	1,039.79	26.70	39.949	
4,600.00	4,522.75	4,369.89	4,175.54	11.34	23.90	82.32	-716.95	-866.58	1,103.18	1,075.34	27.84	39.629	
4,700.00	4,577.65	4,501.29	4,291.94	12.09	24.65	83.13	-777.13	-870.79	1,136.26	1,106.87	29.39	38.658	
4,800.00	4,621.40	4,680.79	4,431.00	13.11	25.49	86.03	-885.46	-841.03	1,166.00	1,134.70	31.30	37.248	
4,900.00	4,652.61	4,863.89	4,537.20	14.41	26.17	87.37	-1,016.74	-771.96	1,189.61	1,156.17	33.44	35.574	
5,000.00	4,666.66	5,135.75	4,629.40	15.93	27.18	88.44	-1,221.74	-623.37	1,206.79	1,170.30	36.50	33.067	
5,100.00	4,669.58	5,298.20	4,634.52	17.61	27.94	88.32	-1,338.99	-511.33	1,208.99	1,169.20	39.79	30.387	

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. 050H
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. 050H	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
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	
5,200.00	4,666.89	5,398.14	4,634.10	19.43	28.60	88.38	-1,410.24	-441.25	1,211.52	1,168.53	42.99	28.182	
5,300.00	4,664.19	5,498.03	4,633.69	21.34	29.46	88.54	-1,481.46	-371.21	1,215.48	1,169.06	46.41	26.187	
5,400.00	4,663.31	5,598.01	4,633.27	23.31	30.52	88.58	-1,552.74	-301.09	1,216.89	1,166.86	50.03	24.325	
5,500.00	4,660.98	5,697.99	4,632.85	25.34	31.76	88.65	-1,624.02	-230.99	1,217.97	1,164.23	53.74	22.665	
5,600.00	4,659.81	5,797.96	4,632.44	27.41	33.17	88.71	-1,695.29	-160.89	1,219.66	1,162.04	57.62	21.167	
5,671.16	4,660.50	5,869.11	4,632.14	28.90	34.26	88.67	-1,746.02	-110.99	1,219.84	1,159.42	60.43	20.187	
5,700.00	4,661.14	5,897.94	4,632.02	29.50	34.72	88.64	-1,766.57	-90.78	1,219.67	1,158.08	61.58	19.805	
5,800.00	4,661.23	5,997.94	4,631.61	31.63	36.38	88.61	-1,837.86	-20.66	1,220.12	1,154.50	65.62	18.593	
5,900.00	4,658.93	6,097.91	4,631.19	33.78	38.12	88.65	-1,909.14	49.44	1,221.40	1,151.68	69.72	17.518	
6,000.00	4,657.08	6,197.89	4,630.78	35.94	39.94	88.77	-1,980.41	119.55	1,221.50	1,147.62	73.87	16.535	
6,100.00	4,655.96	6,297.86	4,630.36	38.10	41.82	88.82	-2,051.69	189.65	1,219.32	1,141.27	78.05	15.622	
6,200.00	4,653.59	6,397.82	4,629.94	40.27	43.74	88.90	-2,122.95	259.74	1,217.22	1,134.95	82.27	14.795	
6,287.37	4,653.88	6,485.18	4,629.58	42.19	45.45	88.86	-2,185.23	321.00	1,216.50	1,130.50	86.00	14.145	
6,300.00	4,654.93	6,497.79	4,629.53	42.47	45.70	88.81	-2,194.22	329.84	1,216.65	1,130.11	86.54	14.058	
6,400.00	4,657.38	6,597.74	4,629.11	44.68	47.70	88.68	-2,265.48	399.93	1,217.27	1,126.41	90.86	13.398	
6,500.00	4,658.73	6,697.72	4,628.70	46.90	49.73	88.59	-2,336.76	470.04	1,218.69	1,123.50	95.19	12.802	
6,600.00	4,658.53	6,797.70	4,628.28	49.13	51.78	88.57	-2,408.04	540.15	1,220.32	1,120.77	99.55	12.258	
6,700.00	4,656.34	6,897.67	4,627.87	51.37	53.85	88.63	-2,479.31	610.25	1,222.19	1,118.26	103.93	11.760	
6,800.00	4,653.02	6,997.60	4,627.45	53.62	55.94	88.79	-2,550.56	680.32	1,224.08	1,115.76	108.32	11.301	
6,900.00	4,653.18	7,097.57	4,627.04	55.87	58.05	88.80	-2,621.83	750.43	1,226.17	1,113.43	112.74	10.876	
7,000.00	4,654.18	7,197.49	4,626.62	58.14	60.17	88.72	-2,693.07	820.49	1,229.92	1,112.74	117.17	10.497	
7,100.00	4,655.11	7,297.42	4,626.20	60.40	62.30	88.70	-2,764.31	890.56	1,233.40	1,111.78	121.62	10.141	
7,200.00	4,658.90	7,397.32	4,625.79	62.66	64.45	88.49	-2,835.53	960.61	1,235.13	1,109.06	126.07	9.797	
7,300.00	4,661.78	7,497.24	4,625.37	64.92	66.60	88.34	-2,906.77	1,030.68	1,237.03	1,106.50	130.53	9.477	
7,400.00	4,663.68	7,597.21	4,624.96	67.18	68.77	88.19	-2,978.04	1,100.78	1,237.58	1,102.60	134.98	9.169	
7,500.00	4,665.04	7,697.17	4,624.54	69.41	70.94	88.11	-3,049.30	1,170.87	1,235.58	1,096.16	139.42	8.862	
7,600.00	4,664.82	7,797.15	4,624.13	71.66	73.12	88.13	-3,120.58	1,240.98	1,233.65	1,089.78	143.87	8.575	
7,700.00	4,662.48	7,897.11	4,623.71	73.90	75.30	88.22	-3,191.85	1,311.07	1,231.76	1,083.43	148.33	8.304	
7,768.20	4,660.19	7,965.28	4,623.43	75.44	76.80	88.29	-3,240.45	1,358.88	1,231.29	1,079.92	151.38	8.134	
7,800.00	4,659.07	7,997.06	4,623.30	76.16	77.50	88.32	-3,263.11	1,381.16	1,231.59	1,078.79	152.80	8.060	
7,900.00	4,655.02	8,096.99	4,622.88	78.42	79.69	88.51	-3,334.35	1,451.24	1,231.95	1,074.67	157.28	7.833	
8,000.00	4,653.14	8,196.96	4,622.47	80.67	81.90	88.58	-3,405.62	1,521.33	1,230.04	1,068.28	161.76	7.604	
8,100.00	4,652.74	8,296.92	4,622.05	82.91	84.10	88.57	-3,476.89	1,591.43	1,227.17	1,060.94	166.23	7.383	
8,200.00	4,652.27	8,396.87	4,621.63	85.15	86.32	88.58	-3,548.15	1,661.51	1,224.03	1,053.34	170.70	7.171	
8,300.00	4,650.67	8,496.83	4,621.22	87.40	88.53	88.65	-3,619.41	1,731.61	1,221.63	1,046.45	175.18	6.974	
8,400.00	4,648.42	8,596.80	4,620.80	89.66	90.75	88.71	-3,690.68	1,801.71	1,219.81	1,040.14	179.67	6.789	
8,499.90	4,647.97	8,696.70	4,620.39	91.92	92.97	88.70	-3,761.90	1,871.76	1,219.29	1,035.12	184.17	6.621	
8,500.00	4,648.28	8,696.80	4,620.39	91.92	92.97	88.69	-3,761.97	1,871.83	1,219.60	1,035.42	184.17	6.622	
8,513.29	4,648.32	8,710.09	4,620.33	92.22	93.27	88.69	-3,771.45	1,881.15	1,219.59	1,034.82	184.77	6.600	
8,600.00	4,648.67	8,796.79	4,619.97	94.19	95.20	88.65	-3,833.27	1,941.95	1,219.66	1,030.98	188.69	6.464	
8,700.00	4,648.52	8,896.78	4,619.56	96.47	97.43	88.63	-3,904.55	2,012.06	1,220.82	1,027.62	193.21	6.319	
8,800.00	4,647.35	8,996.75	4,619.14	98.76	99.66	88.65	-3,975.82	2,082.16	1,223.35	1,025.60	197.74	6.187	
8,900.00	4,646.47	9,096.71	4,618.73	101.04	101.89	88.70	-4,047.09	2,152.26	1,225.49	1,023.22	202.28	6.059	
8,969.04	4,647.14	9,165.75	4,618.44	102.61	103.44	88.66	-4,096.31	2,200.66	1,225.73	1,020.33	205.40	5.968	
9,000.00	4,647.77	9,196.70	4,618.31	103.32	104.13	88.63	-4,118.37	2,222.37	1,225.53	1,018.73	206.80	5.926	
9,100.00	4,647.91	9,296.69	4,617.89	105.60	106.37	88.59	-4,189.66	2,292.48	1,226.65	1,015.32	211.33	5.804	
9,200.00	4,645.87	9,396.65	4,617.48	107.89	108.61	88.63	-4,260.92	2,362.58	1,228.76	1,012.89	215.87	5.692	
9,300.00	4,644.68	9,496.63	4,617.06	110.17	110.85	88.71	-4,332.21	2,432.69	1,229.90	1,009.49	220.41	5.580	
9,400.00	4,645.90	9,596.62	4,616.65	112.44	113.10	88.64	-4,403.49	2,502.80	1,229.88	1,004.94	224.93	5.468	
9,500.00	4,648.38	9,696.57	4,616.23	114.71	115.34	88.49	-4,474.75	2,572.89	1,229.24	999.79	229.45	5.357	
9,600.00	4,652.60	9,796.46	4,615.82	116.98	117.59	88.27	-4,545.96	2,642.93	1,228.87	994.91	233.96	5.252	
9,700.00	4,655.75	9,896.37	4,615.40	119.23	119.84	88.06	-4,617.19	2,712.99	1,226.78	988.31	238.47	5.144	

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. 050H
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. 050H	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
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	
9,800.00	4,659.08	9,996.24	4,614.99	121.48	122.08	87.90	-4,688.39	2,783.02	1,223.45	980.49	242.95	5.036	
9,900.00	4,658.60	10,096.20	4,614.57	123.74	124.34	87.94	-4,759.66	2,853.11	1,221.11	973.63	247.47	4.934	
9,916.53	4,658.30	10,112.73	4,614.50	124.12	124.71	87.94	-4,771.44	2,864.70	1,221.07	972.84	248.22	4.919	
10,000.00	4,656.51	10,196.17	4,614.15	126.03	126.59	87.98	-4,830.93	2,923.21	1,222.71	970.69	252.02	4.852	
10,100.00	4,653.92	10,296.12	4,613.74	128.31	128.84	88.12	-4,902.19	2,993.30	1,224.53	967.95	256.58	4.773	
10,200.00	4,654.13	10,396.10	4,613.32	130.58	131.10	88.08	-4,973.47	3,063.41	1,223.15	962.04	261.10	4.685	
10,300.00	4,655.04	10,496.07	4,612.91	132.84	133.35	88.05	-5,044.74	3,133.51	1,221.53	955.91	265.62	4.599	
10,400.00	4,652.21	10,595.95	4,612.49	135.09	135.61	88.20	-5,115.95	3,203.55	1,217.19	947.05	270.13	4.506	
10,500.00	4,649.97	10,695.86	4,612.08	137.34	137.87	88.23	-5,187.18	3,273.61	1,213.35	938.70	274.65	4.418	
10,600.00	4,650.23	10,795.80	4,611.66	139.59	140.13	88.15	-5,258.43	3,343.69	1,210.06	930.90	279.16	4.335	
10,700.00	4,650.17	10,895.75	4,611.25	141.85	142.38	88.20	-5,329.69	3,413.77	1,207.30	923.63	283.67	4.256	
10,800.00	4,647.38	10,995.68	4,610.83	144.10	144.65	88.30	-5,400.93	3,483.85	1,204.47	916.26	288.20	4.179	
10,900.00	4,646.16	11,095.66	4,610.42	146.37	146.91	88.30	-5,472.21	3,553.95	1,202.61	909.88	292.74	4.108	
10,932.82	4,646.12	11,128.48	4,610.28	147.12	147.65	88.29	-5,495.60	3,576.96	1,202.44	908.22	294.23	4.087	
11,000.00	4,645.82	11,195.65	4,610.00	148.65	149.17	88.29	-5,543.50	3,624.07	1,203.21	905.93	297.29	4.047	
11,100.00	4,646.73	11,295.61	4,609.58	150.95	151.43	88.26	-5,614.76	3,694.16	1,205.95	904.11	301.85	3.995	
11,200.00	4,646.41	11,395.58	4,609.17	153.24	153.70	88.22	-5,686.03	3,764.26	1,208.04	901.64	306.41	3.943	
11,300.00	4,643.45	11,495.54	4,608.75	155.53	155.96	88.34	-5,757.30	3,834.36	1,208.77	897.79	310.98	3.887	
11,400.00	4,642.72	11,595.53	4,608.34	157.82	158.23	88.38	-5,828.58	3,904.47	1,209.94	894.41	315.53	3.835	
11,500.00	4,643.70	11,695.49	4,607.92	160.12	160.49	88.33	-5,899.85	3,974.57	1,212.14	892.05	320.09	3.787	
11,600.00	4,645.75	11,795.42	4,607.51	162.41	162.76	88.23	-5,971.09	4,044.64	1,215.05	890.41	324.65	3.743	
11,700.00	4,647.13	11,895.37	4,607.09	164.72	165.02	88.14	-6,042.35	4,114.72	1,217.90	888.70	329.21	3.700	
11,800.00	4,648.08	11,995.26	4,606.68	167.02	167.29	88.06	-6,113.57	4,184.77	1,222.28	888.51	333.77	3.662	
11,900.00	4,647.47	12,095.20	4,606.26	169.33	169.56	88.05	-6,184.82	4,254.85	1,225.68	887.32	338.35	3.622	
12,000.00	4,646.52	12,157.74	4,606.00	171.64	170.98	88.04	-6,229.40	4,298.70	1,230.93	888.57	342.35	3.595 SF	
12,100.00	4,645.14	12,157.74	4,606.00	173.89	170.98	88.04	-6,229.40	4,298.70	1,244.01	900.79	343.21	3.625	
12,156.00	4,644.46	12,157.74	4,606.00	174.81	170.98	88.04	-6,229.40	4,298.70	1,255.13	913.00	342.13	3.669	



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
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. 050H	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	
0.00	0.00	0.00	0.00	0.00	0.00	-131.10	-13.12	-15.04	19.95				
100.00	100.00	100.00	100.00	0.13	0.13	-120.93	-13.12	-15.04	20.03	19.76	0.27	74.474	
200.00	200.00	200.00	200.00	0.31	0.49	-122.08	-13.12	-15.04	20.28	19.47	0.81	25.133	
300.00	300.00	300.00	300.00	0.49	0.85	-123.92	-13.12	-15.04	20.71	19.36	1.34	15.399	
400.00	399.99	399.99	399.99	0.67	1.21	-126.37	-13.12	-15.04	21.34	19.46	1.88	11.336	
500.00	499.98	499.98	499.98	1.00	1.57	-134.12	-13.12	-15.04	22.32	19.75	2.57	8.681	
600.00	599.96	599.96	599.96	1.36	1.93	-136.62	-13.12	-15.04	23.61	20.32	3.29	7.179	
700.00	699.95	699.95	699.95	1.72	2.29	-140.84	-13.12	-15.04	24.57	20.56	4.01	6.134	
800.00	799.95	799.95	799.95	2.08	2.64	-141.27	-13.12	-15.04	25.24	20.52	4.72	5.345	
900.00	899.95	899.95	899.95	2.44	3.00	-133.91	-13.12	-15.04	25.73	20.29	5.44	4.731	
1,000.00	999.95	999.95	999.95	2.79	3.36	-134.45	-13.12	-15.04	25.98	19.83	6.16	4.221	
1,100.00	1,099.95	1,099.95	1,099.95	3.15	3.72	-143.01	-13.12	-15.04	26.36	19.49	6.87	3.836	
1,200.00	1,199.94	1,199.94	1,199.94	3.51	4.08	-154.27	-13.12	-15.04	26.74	19.15	7.59	3.524	
1,300.00	1,299.94	1,299.94	1,299.94	3.87	4.44	-176.63	-13.12	-15.04	27.20	18.90	8.30	3.276	
1,400.00	1,399.94	1,399.94	1,399.94	4.22	4.79	-176.83	-13.12	-15.04	27.88	18.86	9.02	3.092 ES	
1,500.00	1,499.94	1,499.90	1,499.90	4.58	5.15	-178.07	-13.12	-15.04	28.80	19.07	9.73	2.960 SF	
1,600.00	1,599.93	1,598.43	1,598.39	4.93	5.48	-157.54	-14.57	-17.30	32.07	21.67	10.40	3.083	
1,700.00	1,699.93	1,696.41	1,696.05	5.29	5.81	-141.99	-18.72	-23.80	39.71	28.66	11.05	3.594	
1,800.00	1,799.93	1,793.34	1,792.15	5.65	6.15	-113.46	-25.48	-34.36	52.30	40.63	11.67	4.483	
1,900.00	1,899.93	1,888.75	1,886.01	6.01	6.49	-108.72	-34.70	-48.76	69.87	57.62	12.25	5.703	
2,000.00	1,999.90	1,982.58	1,977.37	6.36	6.85	-47.69	-46.21	-66.75	91.01	78.22	12.79	7.113	
2,100.00	2,099.70	2,078.70	2,070.07	6.71	7.25	-48.41	-59.90	-88.13	112.97	99.55	13.43	8.415	
2,200.00	2,199.30	2,176.54	2,164.38	7.06	7.67	-50.44	-73.94	-110.09	133.57	119.44	14.12	9.457	
2,300.00	2,298.85	2,274.43	2,258.73	7.42	8.11	-50.99	-88.00	-132.05	153.90	139.07	14.83	10.379	
2,400.00	2,398.39	2,372.35	2,353.11	7.78	8.56	-50.11	-102.06	-154.02	174.11	158.57	15.54	11.203	
2,500.00	2,497.95	2,470.30	2,447.52	8.08	9.03	-48.84	-116.13	-176.00	194.23	178.03	16.20	11.990	
2,600.00	2,597.52	2,568.27	2,541.95	8.21	9.51	-47.65	-130.19	-197.98	214.22	197.53	16.69	12.833	
2,700.00	2,697.09	2,666.28	2,636.41	8.25	9.99	-47.38	-144.27	-219.97	234.09	216.99	17.10	13.689	
2,800.00	2,796.69	2,764.27	2,730.87	8.30	10.49	-44.99	-158.34	-241.96	254.01	236.49	17.53	14.492	
2,900.00	2,896.32	2,862.27	2,825.33	8.37	10.99	-42.33	-172.41	-263.95	273.92	255.95	17.97	15.243	
3,000.00	2,995.99	2,960.25	2,919.77	8.46	11.50	-41.01	-186.48	-285.93	293.90	275.47	18.43	15.948	
3,100.00	3,095.65	3,058.25	3,014.22	8.56	12.01	-39.70	-200.55	-307.92	313.80	294.90	18.90	16.601	
3,200.00	3,195.34	3,156.22	3,108.66	8.68	12.53	-38.45	-214.62	-329.90	333.80	314.41	19.39	17.213	
3,300.00	3,295.04	3,254.19	3,203.09	8.81	13.05	-35.84	-228.69	-351.88	353.82	333.92	19.90	17.784	
3,400.00	3,394.76	3,352.15	3,297.51	8.95	13.57	-32.15	-242.75	-373.86	373.84	353.43	20.41	18.317	
3,500.00	3,494.46	3,450.20	3,392.01	9.11	14.10	-30.01	-256.83	-395.86	393.42	372.48	20.94	18.790	
3,600.00	3,594.16	3,548.27	3,486.54	9.28	14.63	-23.03	-270.92	-417.87	412.86	391.38	21.48	19.224	
3,700.00	3,693.91	3,646.29	3,581.02	9.46	15.16	-13.78	-284.99	-439.86	432.38	410.36	22.02	19.637	
3,800.00	3,793.72	3,744.07	3,675.32	9.64	15.69	-6.92	-300.69	-460.21	452.77	430.20	22.57	20.061	
3,900.00	3,893.71	3,839.22	3,766.39	9.82	16.16	22.69	-326.00	-470.04	477.88	454.79	23.10	20.690	
4,000.00	3,993.71	3,928.26	3,848.90	10.00	16.55	14.41	-359.22	-468.96	504.89	481.34	23.55	21.441	
4,100.00	4,093.56	4,009.72	3,920.34	10.18	16.87	75.08	-397.01	-459.30	534.18	510.31	23.87	22.379	
4,200.00	4,191.71	4,087.30	3,983.42	10.34	17.15	73.15	-438.84	-442.55	564.44	540.38	24.06	23.463	
4,300.00	4,285.99	4,161.61	4,038.22	10.50	17.40	72.56	-483.54	-419.90	596.09	571.93	24.17	24.665	
4,400.00	4,374.16	4,233.15	4,084.91	10.66	17.63	69.30	-530.15	-392.35	629.64	605.35	24.29	25.917	
4,500.00	4,454.00	4,303.10	4,124.09	10.84	17.88	63.67	-578.41	-360.37	661.34	636.82	24.53	26.965	
4,600.00	4,522.75	4,389.57	4,167.13	11.34	18.22	58.88	-639.72	-317.18	685.46	660.23	25.22	27.175	
4,700.00	4,577.65	4,460.65	4,196.99	12.09	18.58	57.02	-691.22	-278.44	702.02	675.92	26.11	26.890	
4,800.00	4,621.40	4,531.04	4,218.84	13.11	19.03	56.08	-743.06	-236.20	716.31	688.97	27.34	26.201	
4,900.00	4,652.61	4,600.00	4,232.47	14.41	19.59	55.30	-793.90	-191.71	728.82	699.90	28.92	25.199	
5,000.00	4,666.66	4,670.22	4,238.23	15.93	20.29	54.46	-844.95	-143.90	736.11	705.20	30.91	23.817	
5,100.00	4,669.58	4,762.78	4,238.01	17.61	21.38	54.26	-910.99	-79.05	739.23	705.88	33.34	22.170	

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. 050H
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. 050H	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	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.00	4,666.89	4,862.72	4,237.50	19.43	22.77	54.48	-982.24	-8.97	740.06	703.89	36.18	20.456	
5,300.00	4,664.19	4,962.61	4,237.00	21.34	24.31	54.83	-1,053.45	61.07	742.07	702.86	39.21	18.926	
5,400.00	4,663.31	5,062.60	4,236.50	23.31	25.98	54.94	-1,124.74	131.19	743.02	700.72	42.30	17.565	
5,473.49	4,661.84	5,136.07	4,236.13	24.80	27.27	55.03	-1,177.12	182.71	743.16	698.50	44.66	16.639	
5,500.00	4,660.98	5,162.57	4,236.00	25.34	27.75	55.08	-1,196.01	201.29	742.90	697.37	45.53	16.317	
5,600.00	4,659.81	5,262.54	4,235.50	27.41	29.59	55.23	-1,267.29	271.39	743.91	695.08	48.83	15.234	
5,700.00	4,661.14	5,362.53	4,235.00	29.50	31.49	55.11	-1,338.57	341.50	744.93	692.84	52.09	14.301	
5,800.00	4,661.23	5,462.52	4,234.49	31.63	33.44	55.09	-1,409.86	411.62	745.64	690.19	55.45	13.448	
5,824.63	4,660.86	5,487.15	4,234.37	32.16	33.93	55.10	-1,427.42	428.89	745.62	689.33	56.29	13.245	
5,900.00	4,658.93	5,562.49	4,233.99	33.78	35.44	55.23	-1,481.13	481.72	745.70	686.74	58.95	12.649	
6,000.00	4,657.08	5,662.47	4,233.49	35.94	37.46	55.35	-1,552.41	551.83	745.03	682.58	62.45	11.930	
6,100.00	4,655.96	5,762.45	4,232.99	38.10	39.52	55.31	-1,623.68	621.93	742.91	677.04	65.87	11.278	
6,200.00	4,653.59	5,862.41	4,232.49	40.27	41.60	55.33	-1,694.95	692.02	740.14	670.78	69.36	10.671	
6,248.65	4,653.29	5,911.05	4,232.24	41.34	42.62	55.30	-1,729.63	726.13	739.64	668.59	71.05	10.410	
6,300.00	4,654.93	5,962.37	4,231.99	42.47	43.70	55.20	-1,766.22	762.12	740.70	667.94	72.76	10.180	
6,400.00	4,657.38	6,062.33	4,231.48	44.68	45.82	55.03	-1,837.48	832.21	742.84	666.68	76.16	9.754	
6,500.00	4,658.73	6,162.30	4,230.98	46.90	47.96	54.96	-1,908.75	902.31	745.04	665.39	79.64	9.354	
6,600.00	4,658.53	6,262.28	4,230.48	49.13	50.11	55.00	-1,980.04	972.42	746.54	663.31	83.23	8.970	
6,700.00	4,656.34	6,362.25	4,229.98	51.37	52.27	55.18	-2,051.30	1,042.52	747.15	660.20	86.95	8.593	
6,767.96	4,654.51	6,430.18	4,229.64	52.90	53.74	55.34	-2,099.74	1,090.16	747.37	657.86	89.51	8.350	
6,800.00	4,653.02	6,462.19	4,229.48	53.62	54.44	55.45	-2,122.55	1,112.60	747.15	656.39	90.76	8.232	
6,900.00	4,653.18	6,562.16	4,228.97	55.87	56.62	55.52	-2,193.83	1,182.70	749.24	654.85	94.38	7.938	
7,000.00	4,654.18	6,662.08	4,228.47	58.14	58.81	55.56	-2,265.06	1,252.77	753.15	655.11	98.05	7.681	
7,100.00	4,655.11	6,762.00	4,227.97	60.40	61.00	55.67	-2,336.30	1,322.83	756.81	655.10	101.71	7.441	
7,200.00	4,658.90	6,861.90	4,227.47	62.66	63.20	55.48	-2,407.52	1,392.88	760.58	655.50	105.08	7.238	
7,300.00	4,661.78	6,961.82	4,226.97	64.92	65.41	55.33	-2,478.76	1,462.95	763.99	655.48	108.51	7.041	
7,400.00	4,663.68	7,061.78	4,226.47	67.18	67.62	55.17	-2,550.02	1,533.04	765.75	653.84	111.91	6.842	
7,500.00	4,665.04	7,161.74	4,225.97	69.41	69.84	54.98	-2,621.29	1,603.14	765.13	649.95	115.18	6.643	
7,600.00	4,664.82	7,261.72	4,225.46	71.66	72.06	54.89	-2,692.57	1,673.24	763.71	645.15	118.56	6.442	
7,700.00	4,662.48	7,361.68	4,224.96	73.90	74.29	54.94	-2,763.83	1,743.34	761.15	639.05	122.10	6.234	
7,800.00	4,659.07	7,461.64	4,224.46	76.16	76.52	55.09	-2,835.10	1,813.43	759.42	633.56	125.86	6.034	
7,900.00	4,655.02	7,561.58	4,223.96	78.42	78.75	55.35	-2,906.34	1,883.50	757.77	628.04	129.73	5.841	
8,000.00	4,653.14	7,661.54	4,223.46	80.67	80.99	55.33	-2,977.61	1,953.60	755.45	622.21	133.23	5.670	
8,100.00	4,652.74	7,761.50	4,222.96	82.91	83.22	55.20	-3,048.88	2,023.69	753.14	616.63	136.51	5.517	
8,200.00	4,652.27	7,861.45	4,222.45	85.15	85.46	55.07	-3,120.13	2,093.78	750.59	610.84	139.75	5.371	
8,300.00	4,650.67	7,961.41	4,221.95	87.40	87.71	55.05	-3,191.40	2,163.88	748.01	604.87	143.14	5.226	
8,400.00	4,648.42	8,061.38	4,221.45	89.66	89.95	55.07	-3,262.67	2,233.98	745.55	598.91	146.64	5.084	
8,474.74	4,647.93	8,136.12	4,221.07	91.35	91.63	55.05	-3,315.96	2,286.39	745.11	595.90	149.21	4.994	
8,500.00	4,648.28	8,161.38	4,220.95	91.92	92.20	55.03	-3,333.96	2,304.10	745.58	595.53	150.05	4.969	
8,600.00	4,648.67	8,261.38	4,220.45	94.19	94.45	54.98	-3,405.25	2,374.21	746.13	592.72	153.42	4.863	
8,700.00	4,648.52	8,361.37	4,219.94	96.47	96.70	54.99	-3,476.54	2,444.33	747.28	590.34	156.94	4.762	
8,800.00	4,647.35	8,461.33	4,219.44	98.76	98.96	55.12	-3,547.81	2,514.43	748.98	588.27	160.71	4.660	
8,900.00	4,646.47	8,561.30	4,218.94	101.04	101.21	55.28	-3,619.08	2,584.52	750.54	586.12	164.42	4.565	
9,000.00	4,647.77	8,661.28	4,218.44	103.32	103.47	55.17	-3,690.36	2,654.63	751.56	583.92	167.64	4.483	
9,100.00	4,647.91	8,761.27	4,217.94	105.60	105.72	55.16	-3,761.65	2,724.75	752.84	581.74	171.11	4.400	
9,200.00	4,645.87	8,861.23	4,217.44	107.89	107.98	55.33	-3,832.91	2,794.84	753.73	578.77	174.95	4.308	
9,300.00	4,644.68	8,961.22	4,216.93	110.17	110.24	55.45	-3,904.19	2,864.95	754.30	575.71	178.59	4.224	
9,400.00	4,645.90	9,061.20	4,216.43	112.44	112.50	55.35	-3,975.48	2,935.06	755.22	573.45	181.77	4.155	
9,500.00	4,648.38	9,161.15	4,215.93	114.71	114.76	55.13	-4,046.73	3,005.15	756.34	571.66	184.68	4.095	
9,600.00	4,652.60	9,261.04	4,215.43	116.98	117.02	54.83	-4,117.95	3,075.19	758.64	571.31	187.33	4.050	
9,700.00	4,655.75	9,360.94	4,214.93	119.23	119.29	54.46	-4,189.17	3,145.25	758.95	569.07	189.89	3.997	
9,800.00	4,659.08	9,460.81	4,214.43	121.48	121.55	54.07	-4,260.37	3,215.27	758.38	566.18	192.20	3.946	

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. 050H
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. 050H	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 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
9,900.00	4,658.60	9,560.77	4,213.92	123.74	123.81	54.00	-4,331.63	3,285.37	756.50	561.33	195.17	3.876
9,958.02	4,657.45	9,618.78	4,213.63	125.07	125.13	54.05	-4,373.00	3,326.05	756.19	558.95	197.23	3.834
10,000.00	4,656.51	9,660.74	4,213.42	126.03	126.08	54.14	-4,402.91	3,355.47	756.91	558.00	198.91	3.805
10,100.00	4,653.92	9,760.69	4,212.92	128.31	128.35	54.38	-4,474.17	3,425.56	757.23	554.47	202.76	3.735
10,200.00	4,654.13	9,860.68	4,212.42	130.58	130.61	54.27	-4,545.45	3,495.67	756.50	550.78	205.72	3.677
10,249.10	4,654.47	9,909.76	4,212.17	131.69	131.73	54.20	-4,580.44	3,530.08	756.13	549.04	207.10	3.651
10,300.00	4,655.04	9,960.64	4,211.92	132.84	132.88	54.12	-4,616.72	3,565.77	755.98	547.48	208.50	3.626
10,400.00	4,652.21	10,060.52	4,211.42	135.09	135.15	54.10	-4,687.93	3,635.80	751.16	539.71	211.46	3.552
10,500.00	4,649.97	10,160.44	4,210.91	137.34	137.42	54.01	-4,759.16	3,705.86	747.08	532.72	214.36	3.485
10,600.00	4,650.23	10,260.37	4,210.41	139.59	139.68	53.79	-4,830.41	3,775.94	744.85	527.96	216.89	3.434
10,700.00	4,650.17	10,360.32	4,209.91	141.85	141.95	53.68	-4,901.66	3,846.03	742.88	523.37	219.51	3.384
10,800.00	4,647.38	10,460.26	4,209.41	144.10	144.22	53.69	-4,972.91	3,916.10	739.30	516.71	222.58	3.321
10,900.00	4,646.16	10,560.24	4,208.91	146.37	146.50	53.63	-5,044.19	3,986.21	737.40	511.88	225.52	3.270
10,925.04	4,646.13	10,585.28	4,208.78	146.94	147.06	53.62	-5,062.04	4,003.77	737.33	511.07	226.26	3.259
11,000.00	4,645.82	10,660.23	4,208.41	148.65	148.77	53.64	-5,115.48	4,056.33	737.98	509.27	228.71	3.227
11,100.00	4,646.73	10,760.18	4,207.90	150.95	151.04	53.69	-5,186.74	4,126.41	740.99	508.95	232.04	3.193
11,200.00	4,646.41	10,860.15	4,207.40	153.24	153.31	53.76	-5,258.01	4,196.51	742.78	507.30	235.48	3.154
11,300.00	4,643.45	10,960.12	4,206.90	155.53	155.59	53.96	-5,329.28	4,266.61	741.98	502.79	239.19	3.102
11,327.53	4,642.83	10,987.65	4,206.76	156.16	156.21	53.99	-5,348.90	4,285.91	741.88	501.70	240.18	3.089
11,400.00	4,642.72	11,060.11	4,206.40	157.82	157.86	54.03	-5,400.56	4,336.72	742.80	500.26	242.54	3.063
11,500.00	4,643.70	11,139.60	4,206.00	160.12	159.67	54.04	-5,457.24	4,392.47	745.70	500.17	245.53	3.037
11,600.00	4,645.75	11,139.60	4,206.00	162.41	159.67	54.04	-5,457.24	4,392.47	758.83	514.97	243.86	3.112
11,700.00	4,647.13	11,139.60	4,206.00	164.72	159.67	53.88	-5,457.24	4,392.47	784.17	547.23	236.95	3.309
11,800.00	4,648.08	11,139.60	4,206.00	167.02	159.67	53.67	-5,457.24	4,392.47	821.90	595.09	226.81	3.624
11,900.00	4,647.47	11,139.60	4,206.00	169.33	159.67	53.42	-5,457.24	4,392.47	868.10	653.31	214.79	4.042
12,000.00	4,646.52	11,139.60	4,206.00	171.64	159.67	52.93	-5,457.24	4,392.47	923.55	721.00	202.55	4.560
12,100.00	4,645.14	11,139.60	4,206.00	173.89	159.67	52.55	-5,457.24	4,392.47	986.69	795.71	190.98	5.166
12,156.00	4,644.46	11,139.60	4,206.00	174.81	159.67	52.55	-5,457.24	4,392.47	1,024.87	839.90	184.98	5.541



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
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. 050H	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	-131.10	-13.12	-15.04	19.95				
100.00	100.00	99.99	99.99	0.13	0.17	-120.75	-13.08	-15.10	20.06	19.75	0.30	66.193	
200.00	200.00	199.98	199.98	0.31	0.34	-121.37	-12.99	-15.28	20.37	19.72	0.65	31.301 ES	
300.00	300.00	299.97	299.97	0.49	0.51	-122.35	-12.84	-15.57	20.91	19.91	1.00	20.931	
400.00	399.99	399.95	399.95	0.67	0.67	-123.64	-12.62	-15.99	21.66	20.31	1.35	16.084	
500.00	499.98	499.99	499.99	1.00	1.00	-130.09	-12.30	-16.44	22.66	20.65	2.00	11.303	
600.00	599.96	599.93	599.92	1.36	1.36	-131.54	-12.00	-16.84	23.89	21.17	2.72	8.781	
700.00	699.95	699.96	699.95	1.72	1.72	-134.64	-11.69	-17.32	24.85	21.42	3.44	7.229	
800.00	799.95	799.96	799.95	2.08	2.08	-134.08	-11.34	-17.68	25.43	21.27	4.15	6.121	
900.00	899.95	899.92	899.91	2.44	2.43	-126.04	-11.18	-18.02	25.95	21.09	4.87	5.333	
1,000.00	999.95	999.91	999.90	2.79	2.78	-126.48	-11.26	-18.18	26.33	20.75	5.57	4.722	
1,100.00	1,099.95	1,099.90	1,099.89	3.15	3.13	-134.83	-11.32	-18.42	26.86	20.57	6.29	4.273	
1,200.00	1,199.94	1,199.94	1,199.93	3.51	3.49	-145.58	-11.25	-18.73	27.34	20.34	7.00	3.905	
1,300.00	1,299.94	1,299.94	1,299.93	3.87	3.85	-167.24	-11.01	-19.06	27.80	20.09	7.72	3.603	
1,400.00	1,399.94	1,399.86	1,399.85	4.22	4.21	-173.44	-10.94	-19.37	28.63	20.20	8.43	3.397 SF	
1,500.00	1,499.94	1,498.82	1,498.79	4.58	4.56	-171.36	-11.73	-20.84	31.12	21.99	9.13	3.409	
1,600.00	1,599.93	1,596.73	1,596.47	4.93	4.91	-146.28	-14.97	-26.38	38.17	28.36	9.80	3.894	
1,700.00	1,699.93	1,693.63	1,692.64	5.29	5.26	-131.52	-20.79	-36.67	50.28	39.83	10.44	4.814	
1,800.00	1,799.93	1,789.35	1,786.90	5.65	5.63	-104.26	-28.67	-51.30	67.45	56.39	11.06	6.096	
1,900.00	1,899.93	1,883.09	1,878.31	6.01	6.01	-100.73	-38.42	-69.53	89.30	77.65	11.65	7.666	
2,000.00	1,999.90	1,978.26	1,970.31	6.36	6.42	-40.65	-50.30	-90.81	113.30	101.02	12.28	9.224	
2,100.00	2,099.70	2,076.22	2,064.83	6.71	6.86	-41.92	-62.90	-113.28	134.87	121.89	12.99	10.387	
2,200.00	2,199.30	2,174.38	2,159.61	7.06	7.32	-44.07	-75.19	-135.66	154.31	140.61	13.70	11.266	
2,300.00	2,298.85	2,272.12	2,253.96	7.42	7.79	-44.65	-87.34	-158.12	173.54	159.13	14.41	12.045	
2,400.00	2,398.39	2,369.19	2,347.54	7.78	8.27	-43.70	-99.34	-180.93	193.04	177.92	15.11	12.774	
2,500.00	2,497.95	2,466.77	2,441.49	8.08	8.76	-42.30	-111.37	-204.36	212.85	197.08	15.77	13.498	
2,600.00	2,597.52	2,565.36	2,536.44	8.21	9.27	-41.02	-123.51	-228.01	232.54	216.26	16.28	14.283	
2,700.00	2,697.09	2,595.00	2,564.99	8.25	9.43	-40.61	-127.13	-235.10	261.13	245.93	15.20	17.176	
2,800.00	2,796.69	2,595.00	2,564.99	8.30	9.43	-38.29	-127.13	-235.10	318.54	305.37	13.17	24.182	
2,900.00	2,896.32	2,595.00	2,564.99	8.37	9.43	-36.01	-127.13	-235.10	393.42	381.77	11.65	33.776	
3,000.00	2,995.99	2,595.00	2,564.99	8.46	9.43	-35.02	-127.13	-235.10	477.64	466.95	10.69	44.698	
3,100.00	3,095.65	2,595.00	2,564.99	8.56	9.43	-34.04	-127.13	-235.10	566.98	556.88	10.10	56.116	
3,200.00	3,195.34	2,595.00	2,564.99	8.68	9.43	-33.33	-127.13	-235.10	659.44	649.67	9.76	67.533	
3,300.00	3,295.04	2,595.00	2,564.99	8.81	9.43	-31.58	-127.13	-235.10	753.83	744.26	9.57	78.737	
3,400.00	3,394.76	2,595.00	2,564.99	8.95	9.43	-28.88	-127.13	-235.10	849.52	840.05	9.48	89.625	
3,500.00	3,494.46	2,595.00	2,564.99	9.11	9.43	-27.14	-127.13	-235.10	946.00	936.55	9.44	100.179	
3,600.00	3,594.16	2,595.00	2,564.99	9.28	9.43	-22.89	-127.13	-235.10	1,043.10	1,033.65	9.45	110.360	
3,700.00	3,693.91	2,595.00	2,564.99	9.46	9.43	-16.55	-127.13	-235.10	1,140.72	1,131.22	9.49	120.165	
3,800.00	3,793.72	2,595.00	2,564.99	9.64	9.43	-15.40	-127.13	-235.10	1,238.86	1,229.29	9.56	129.532	
3,900.00	3,893.71	2,595.00	2,564.99	9.82	9.43	11.47	-127.13	-235.10	1,337.95	1,328.28	9.67	138.424	

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. 050H
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. 050H	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 - 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	0.16	-0.11	0.27	0.585	Level 1<1.00, CC
200.00	200.00	200.00	200.00	0.31	0.49	180.00	0.00	0.00	0.63	-0.18	0.81	0.780	Level 1<1.00
300.00	300.00	300.00	300.00	0.49	0.85	180.00	0.00	0.00	1.42	0.07	1.34	1.053	Level 2<1.50
400.00	399.99	399.99	399.99	0.67	1.21	180.00	0.00	0.00	2.52	0.63	1.88	1.337	Level 2<1.50
500.00	499.98	499.98	499.98	1.00	1.57	176.17	0.00	0.00	4.03	1.46	2.57	1.567	Level 3<2.00
600.00	599.96	599.96	599.96	1.36	1.93	177.96	0.00	0.00	5.83	2.55	3.29	1.774	Level 3<2.00
700.00	699.95	699.95	699.95	1.72	2.29	176.29	0.00	0.00	7.11	3.11	4.00	1.776	Level 3<2.00
800.00	799.95	799.95	799.95	2.08	2.64	177.49	0.00	0.00	7.97	3.24	4.72	1.687	Level 3<2.00
900.00	899.95	899.95	899.95	2.44	3.00	-174.24	0.00	0.00	8.62	3.18	5.44	1.585	Level 3<2.00
1,000.00	999.95	999.95	999.95	2.79	3.36	-174.56	0.00	0.00	9.01	2.86	6.15	1.464	Level 2<1.50
1,100.00	1,099.95	1,099.95	1,099.95	3.15	3.72	177.60	0.00	0.00	9.50	2.63	6.87	1.382	Level 2<1.50
1,200.00	1,199.94	1,199.94	1,199.94	3.51	4.08	167.12	0.00	0.00	9.95	2.37	7.59	1.312	Level 2<1.50
1,300.00	1,299.94	1,299.94	1,299.94	3.87	4.44	146.10	0.00	0.00	10.39	2.09	8.30	1.252	Level 2<1.50
1,400.00	1,399.94	1,399.94	1,399.94	4.22	4.79	141.75	0.00	0.00	10.93	1.91	9.02	1.212	Level 2<1.50
1,500.00	1,499.94	1,499.94	1,499.94	4.58	5.15	145.68	0.00	0.00	11.66	1.93	9.73	1.199	Level 2<1.50
1,600.00	1,599.93	1,599.93	1,599.93	4.93	5.51	169.79	0.00	0.00	12.38	1.93	10.45	1.185	Level 2<1.50
1,700.00	1,699.93	1,699.93	1,699.93	5.29	5.87	-178.99	0.00	0.00	12.81	1.65	11.16	1.148	Level 2<1.50
1,800.00	1,799.93	1,799.93	1,799.93	5.65	6.23	-155.32	0.00	0.00	13.22	1.34	11.88	1.113	Level 2<1.50
1,900.00	1,899.93	1,899.93	1,899.93	6.01	6.59	-155.01	0.00	0.00	13.64	1.05	12.59	1.083	Level 2<1.50
2,000.00	1,999.90	1,999.91	1,999.91	6.36	6.94	-104.54	0.00	0.00	14.23	0.93	13.30	1.070	Level 2<1.50
2,100.00	2,099.70	2,100.15	2,100.10	6.71	7.29	-118.29	0.34	-2.76	15.46	1.47	13.98	1.105	Level 2<1.50
2,200.00	2,199.30	2,200.40	2,200.05	7.06	7.64	-123.80	1.26	-10.30	16.15	1.50	14.65	1.103	Level 2<1.50
2,300.00	2,298.85	2,300.39	2,299.69	7.42	7.99	-126.25	2.30	-18.73	16.78	1.43	15.35	1.093	Level 2<1.50
2,400.00	2,398.39	2,400.38	2,399.32	7.78	8.34	-127.67	3.33	-27.15	17.32	1.28	16.04	1.080	Level 2<1.50
2,500.00	2,497.95	2,500.38	2,498.95	8.08	8.70	-128.95	4.36	-35.58	17.60	0.92	16.68	1.055	Level 2<1.50
2,600.00	2,597.52	2,600.38	2,598.59	8.21	9.06	-130.68	5.40	-44.00	17.66	0.52	17.14	1.030	Level 2<1.50
2,700.00	2,697.09	2,700.37	2,698.22	8.25	9.42	-133.75	6.43	-52.42	17.63	0.13	17.50	1.007	Level 2<1.50
2,800.00	2,796.69	2,800.36	2,797.85	8.30	9.78	-134.63	7.46	-60.85	17.32	-0.55	17.87	0.969	Level 1<1.00
2,900.00	2,896.32	2,900.35	2,897.48	8.37	10.15	-135.62	8.50	-69.27	16.50	-1.74	18.25	0.904	Level 1<1.00
3,000.00	2,995.99	3,000.34	2,997.11	8.46	10.51	-138.36	9.53	-77.69	15.32	-3.30	18.63	0.823	Level 1<1.00
3,100.00	3,095.65	3,100.32	3,096.73	8.56	10.88	-142.26	10.56	-86.12	14.07	-4.95	19.01	0.740	Level 1<1.00
3,200.00	3,195.34	3,200.31	3,196.35	8.68	11.25	-147.07	11.59	-94.54	12.69	-6.70	19.40	0.654	Level 1<1.00
3,300.00	3,295.04	3,300.28	3,295.97	8.81	11.62	-152.63	12.63	-102.96	11.16	-8.63	19.79	0.564	Level 1<1.00
3,400.00	3,394.76	3,400.24	3,395.57	8.95	11.99	-161.00	13.66	-111.38	9.55	-10.66	20.22	0.472	Level 1<1.00
3,500.00	3,494.46	3,500.20	3,495.16	9.11	12.36	-177.98	14.69	-119.80	8.73	-12.01	20.75	0.421	Level 1<1.00
3,527.25	3,521.63	3,527.43	3,522.30	9.16	12.46	177.95	14.97	-122.10	8.71	-12.22	20.93	0.416	Level 1<1.00
3,600.00	3,594.16	3,600.14	3,594.74	9.28	12.73	167.20	15.72	-128.22	9.09	-12.40	21.49	0.423	Level 1<1.00
3,700.00	3,693.91	3,699.87	3,694.19	9.46	13.10	154.69	16.64	-135.71	11.19	-11.20	22.40	0.500	Level 1<1.00
3,800.00	3,793.72	3,799.47	3,793.73	9.64	13.45	161.16	16.98	-138.46	15.46	-7.49	22.95	0.674	Level 1<1.00
3,900.00	3,893.71	3,899.45	3,893.71	9.82	13.80	-167.27	16.98	-138.46	16.68	-6.78	23.47	0.711	Level 1<1.00
4,000.00	3,993.71	3,999.44	3,993.71	10.00	14.16	-173.33	16.98	-138.46	17.24	-6.77	24.00	0.718	Level 1<1.00
4,100.00	4,093.56	4,099.76	4,093.99	10.18	14.50	-115.40	16.02	-137.52	18.70	-5.87	24.57	0.761	Level 1<1.00
4,200.00	4,191.71	4,201.13	4,193.99	10.34	14.81	-118.66	4.73	-126.41	21.04	-3.39	24.43	0.861	Level 1<1.00
4,300.00	4,285.99	4,302.85	4,289.95	10.50	15.10	-114.76	-19.04	-103.04	21.13	-2.70	23.83	0.887	Level 1<1.00
4,400.00	4,374.16	4,404.30	4,378.30	10.66	15.37	-111.67	-54.40	-68.26	17.15	-5.80	22.95	0.747	Level 1<1.00
4,500.00	4,454.00	4,505.05	4,456.02	10.84	15.68	-102.18	-99.96	-23.46	12.15	-12.24	24.39	0.498	Level 1<1.00
4,565.05	4,500.16	4,570.14	4,499.80	11.14	15.97	-87.46	-134.28	10.28	10.97	-15.75	26.71	0.411	Level 1<1.00
4,600.00	4,522.75	4,604.97	4,520.89	11.34	16.15	-79.01	-154.03	29.71	11.49	-12.81	24.31	0.473	Level 1<1.00
4,700.00	4,577.65	4,704.51	4,572.94	12.09	16.79	-67.02	-214.48	89.16	13.77	-7.95	21.72	0.634	Level 1<1.00
4,755.75	4,602.69	4,759.94	4,599.47	12.65	17.24	-74.76	-249.18	123.28	13.54	-10.81	24.34	0.556	Level 1<1.00
4,800.00	4,621.40	4,803.85	4,617.22	13.11	17.63	-71.40	-277.80	151.42	14.06	-9.59	23.65	0.594	Level 1<1.00
4,900.00	4,652.61	4,902.84	4,645.65	14.41	18.66	-58.94	-345.31	217.82	13.92	-6.77	20.69	0.673	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. 050H
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. 050H	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 - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:													
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
4,984.12	4,666.31	4,985.67	4,656.62	15.68	19.67	-46.39	-403.80	275.34	14.09	-4.31	18.40	0.766 Level 1<1.00	
5,000.00	4,666.66	5,001.33	4,657.36	15.93	19.87	-46.10	-414.95	286.31	13.42	-4.91	18.34	0.732 Level 1<1.00	
5,100.00	4,669.58	5,100.89	4,657.32	17.61	21.24	-33.60	-485.93	356.12	14.72	-2.71	17.43	0.844 Level 1<1.00	
5,200.00	4,666.89	5,200.83	4,656.87	19.43	22.76	-28.98	-557.19	426.19	11.45	-6.19	17.63	0.649 Level 1<1.00	
5,300.00	4,664.19	5,300.72	4,656.42	21.34	24.40	-11.10	-628.40	496.24	7.91	-9.57	17.48	0.453 Level 1<1.00	
5,400.00	4,663.31	5,400.71	4,655.98	23.31	26.14	-0.75	-699.69	566.35	7.33	-11.14	18.47	0.397 Level 1<1.00	
5,500.00	4,660.98	5,500.68	4,655.53	25.34	27.95	10.75	-770.97	636.45	5.55	-14.24	19.79	0.280 Level 1<1.00	
5,546.13	4,660.20	5,546.81	4,655.32	26.29	28.82	20.65	-803.85	668.79	5.22	-15.53	20.75	0.252 Level 1<1.00	
5,600.00	4,659.81	5,600.66	4,655.08	27.41	29.83	30.12	-842.24	706.55	5.47	-16.74	22.20	0.246 Level 1<1.00	
5,700.00	4,661.14	5,700.64	4,654.63	29.50	31.77	22.64	-913.53	776.66	7.05	-15.90	22.96	0.307 Level 1<1.00	
5,800.00	4,661.23	5,800.64	4,654.18	31.63	33.75	24.14	-984.82	846.77	7.72	-16.73	24.45	0.316 Level 1<1.00	
5,900.00	4,658.93	5,900.61	4,653.73	33.78	35.76	40.80	-1,056.09	916.87	6.87	-21.31	28.18	0.244 Level 1<1.00	
6,000.00	4,657.08	6,000.58	4,653.28	35.94	37.81	50.58	-1,127.37	986.97	5.97	-26.30	32.28	0.185 Level 1<1.00	
6,100.00	4,655.96	6,100.56	4,652.83	38.10	39.88	38.23	-1,198.65	1,057.08	3.98	-26.24	30.22	0.132 Level 1<1.00	
6,200.00	4,653.59	6,200.52	4,652.38	40.27	41.98	18.31	-1,269.92	1,127.17	1.27	-28.03	29.30	0.043 Level 1<1.00	
6,228.02	4,653.28	6,228.53	4,652.26	40.89	42.57	1.05	-1,289.89	1,146.81	1.02	-28.30	29.31	0.035 Level 1<1.00, SF	
6,300.00	4,654.93	6,300.48	4,651.93	42.47	44.09	-3.87	-1,341.19	1,197.26	3.01	-27.36	30.36	0.099 Level 1<1.00	
6,400.00	4,657.38	6,400.44	4,651.49	44.68	46.22	3.43	-1,412.45	1,267.35	5.91	-25.90	31.81	0.186 Level 1<1.00	
6,500.00	4,658.73	6,500.41	4,651.04	46.90	48.36	12.75	-1,483.73	1,337.45	7.88	-25.66	33.54	0.235 Level 1<1.00	
6,600.00	4,658.53	6,600.40	4,650.59	49.13	50.52	22.99	-1,555.01	1,407.56	8.63	-27.23	35.85	0.241 Level 1<1.00	
6,700.00	4,656.34	6,700.36	4,650.14	51.37	52.69	40.42	-1,626.28	1,477.66	8.15	-32.64	40.79	0.200 Level 1<1.00	
6,765.22	4,654.57	6,765.56	4,649.85	52.84	54.11	54.18	-1,672.77	1,523.37	8.07	-39.68	47.75	0.169 Level 1<1.00	
6,800.00	4,653.02	6,800.30	4,649.69	53.62	54.86	65.31	-1,697.53	1,547.73	7.97	-48.82	56.79	0.140 Level 1<1.00	
6,900.00	4,653.18	6,900.27	4,649.24	55.87	57.05	67.08	-1,768.81	1,617.83	10.12	-51.29	61.41	0.165 Level 1<1.00	
7,000.00	4,654.18	7,000.19	4,648.79	58.14	59.24	67.53	-1,840.05	1,687.89	14.11	-51.11	65.22	0.216 Level 1<1.00	
7,100.00	4,655.11	7,100.12	4,648.34	60.40	61.44	67.74	-1,911.29	1,757.96	17.84	-50.88	68.71	0.260 Level 1<1.00	
7,200.00	4,658.90	7,200.01	4,647.89	62.66	63.65	58.78	-1,982.51	1,828.01	21.21	-40.97	62.18	0.341 Level 1<1.00	
7,300.00	4,661.78	7,299.94	4,647.45	64.92	65.86	54.31	-2,053.76	1,898.08	24.56	-36.62	61.18	0.401 Level 1<1.00	
7,400.00	4,663.68	7,399.90	4,647.00	67.18	68.07	50.75	-2,125.02	1,968.17	26.37	-34.53	60.90	0.433 Level 1<1.00	
7,500.00	4,665.04	7,499.86	4,646.55	69.41	70.29	44.81	-2,196.29	2,038.26	26.07	-32.58	58.64	0.444 Level 1<1.00	
7,600.00	4,664.82	7,599.84	4,646.10	71.66	72.52	41.28	-2,267.57	2,108.36	24.91	-33.31	58.22	0.428 Level 1<1.00	
7,700.00	4,662.48	7,699.80	4,645.65	73.90	74.75	40.97	-2,338.84	2,178.46	22.28	-37.07	59.35	0.375 Level 1<1.00	
7,800.00	4,659.07	7,799.76	4,645.20	76.16	76.98	46.33	-2,410.10	2,248.55	20.09	-43.56	63.64	0.316 Level 1<1.00	
7,900.00	4,655.02	7,899.69	4,644.75	78.42	79.21	55.62	-2,481.35	2,318.62	18.17	-53.96	72.13	0.252 Level 1<1.00	
8,000.00	4,653.14	7,999.66	4,644.30	80.67	81.45	56.02	-2,552.62	2,388.71	15.82	-58.08	73.90	0.214 Level 1<1.00	
8,100.00	4,652.74	8,099.61	4,643.85	82.91	83.69	49.07	-2,623.89	2,458.80	13.57	-55.99	69.56	0.195 Level 1<1.00	
8,200.00	4,652.27	8,199.56	4,643.40	85.15	85.93	38.78	-2,695.15	2,528.89	11.37	-53.80	65.17	0.174 Level 1<1.00	
8,300.00	4,650.67	8,299.53	4,642.96	87.40	88.18	31.62	-2,766.42	2,598.98	9.05	-54.78	63.84	0.142 Level 1<1.00	
8,400.00	4,648.42	8,399.50	4,642.51	89.66	90.43	26.69	-3,122.84	2,669.08	6.62	-57.35	63.97	0.103 Level 1<1.00	
8,461.90	4,647.95	8,461.39	4,642.23	91.06	91.82	24.09	-2,881.82	2,712.48	6.27	-58.18	64.45	0.097 Level 1<1.00	
8,500.00	4,648.28	8,499.49	4,642.06	91.92	92.68	23.91	-2,908.98	2,739.20	6.80	-58.30	65.11	0.104 Level 1<1.00	
8,600.00	4,648.67	8,599.49	4,641.61	94.19	94.93	21.70	-2,980.28	2,809.31	7.60	-58.71	66.31	0.115 Level 1<1.00	
8,700.00	4,648.52	8,699.48	4,641.16	96.47	97.18	28.31	-3,051.57	2,879.43	8.36	-60.87	69.23	0.121 Level 1<1.00	
8,800.00	4,647.35	8,799.44	4,640.71	98.76	99.44	44.42	-3,122.84	2,949.52	9.30	-68.52	77.81	0.119 Level 1<1.00	
8,900.00	4,646.47	8,899.41	4,640.26	101.04	101.69	54.41	-3,194.11	3,019.62	10.66	-77.79	88.45	0.121 Level 1<1.00	
9,000.00	4,647.77	8,999.40	4,639.81	103.32	103.95	47.48	-3,265.39	3,089.73	11.77	-72.23	83.99	0.140 Level 1<1.00	
9,100.00	4,647.91	9,099.38	4,639.36	105.60	106.21	48.83	-3,336.68	3,159.84	12.99	-74.07	87.06	0.149 Level 1<1.00	
9,200.00	4,645.87	9,199.35	4,638.91	107.89	108.47	59.75	-3,407.95	3,229.93	13.81	-88.19	102.00	0.135 Level 1<1.00	
9,300.00	4,644.68	9,299.33	4,638.47	110.17	110.73	64.60	-3,479.23	3,300.04	14.50	-97.87	112.37	0.129 Level 1<1.00	
9,400.00	4,645.90	9,399.31	4,638.02	112.44	112.99	58.84	-3,550.52	3,370.15	15.24	-89.69	104.93	0.145 Level 1<1.00	
9,500.00	4,648.38	9,499.27	4,637.57	114.71	115.25	48.77	-3,621.78	3,440.23	16.40	-78.64	95.05	0.173 Level 1<1.00	
9,600.00	4,652.60	9,599.16	4,637.12	116.98	117.51	37.43	-3,693.00	3,510.27	19.49	-69.09	88.58	0.220 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. 050H
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. 050H	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 - rev2												Offset Site Error: 0.00 ft	
Survey Program: 0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.00 ft	
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
9,700.00	4,655.75	9,699.06	4,636.67	119.23	119.78	26.78	-3,764.22	3,580.33	21.37	-64.30	85.68	0.249	Level 1<1.00
9,800.00	4,659.08	9,798.93	4,636.22	121.48	122.04	15.11	-3,835.42	3,650.35	23.68	-60.84	84.52	0.280	Level 1<1.00
9,900.00	4,658.60	9,898.89	4,635.77	123.74	124.31	9.54	-3,906.69	3,720.45	23.15	-62.04	85.19	0.272	Level 1<1.00
10,000.00	4,656.51	9,998.86	4,635.32	126.03	126.57	14.54	-3,977.97	3,790.54	21.89	-65.62	87.51	0.250	Level 1<1.00
10,100.00	4,653.92	10,098.81	4,634.87	128.31	128.84	21.23	-4,049.23	3,860.63	20.44	-69.91	90.35	0.226	Level 1<1.00
10,140.25	4,653.60	10,139.06	4,634.69	129.23	129.75	21.13	-4,077.92	3,888.85	20.27	-70.71	90.98	0.223	Level 1<1.00
10,200.00	4,654.13	10,198.80	4,634.43	130.58	131.11	16.94	-4,120.51	3,930.74	20.60	-70.43	91.02	0.226	Level 1<1.00
10,300.00	4,655.04	10,298.77	4,633.98	132.84	133.38	11.63	-4,191.79	4,000.84	21.50	-70.19	91.70	0.235	Level 1<1.00
10,400.00	4,652.21	10,398.64	4,633.53	135.09	135.64	0.24	-4,263.00	4,070.87	18.68	-73.91	92.59	0.202	Level 1<1.00
10,494.81	4,650.25	10,493.37	4,633.10	137.22	137.79	-11.81	-4,330.53	4,137.30	17.52	-77.08	94.60	0.185	Level 1<1.00
10,500.00	4,649.97	10,498.56	4,633.08	137.34	137.91	-12.35	-4,334.23	4,140.93	17.29	-77.50	94.79	0.182	Level 1<1.00
10,600.00	4,650.23	10,598.49	4,632.63	139.59	140.18	-21.72	-4,405.48	4,211.01	18.94	-79.30	98.24	0.193	Level 1<1.00
10,700.00	4,650.17	10,698.45	4,632.18	141.85	142.45	-28.51	-4,476.74	4,281.09	20.48	-81.73	102.21	0.200	Level 1<1.00
10,794.30	4,647.77	10,792.68	4,631.76	143.97	144.59	-37.64	-4,543.93	4,347.17	20.23	-88.45	108.68	0.186	Level 1<1.00
10,800.00	4,647.38	10,798.38	4,631.73	144.10	144.72	-38.69	-4,547.99	4,351.16	20.05	-89.54	109.59	0.183	Level 1<1.00
10,900.00	4,646.16	10,898.36	4,631.28	146.37	146.99	-43.99	-4,619.27	4,421.27	20.68	-94.96	115.64	0.179	Level 1<1.00
11,000.00	4,645.82	10,998.35	4,630.83	148.65	149.27	-42.56	-4,690.56	4,491.38	20.35	-95.75	116.10	0.175	Level 1<1.00
11,100.00	4,646.73	11,098.30	4,630.39	150.95	151.54	-34.08	-4,761.82	4,561.47	19.73	-91.63	111.36	0.177	Level 1<1.00
11,200.00	4,646.41	11,198.27	4,629.94	153.24	153.81	-28.57	-4,833.09	4,631.57	18.75	-91.38	110.13	0.170	Level 1<1.00
11,300.00	4,643.45	11,298.24	4,629.49	155.53	156.09	-30.32	-4,904.36	4,701.66	16.18	-96.18	112.36	0.144	Level 1<1.00
11,397.29	4,642.34	11,395.51	4,629.05	157.76	158.30	-27.85	-4,973.72	4,769.87	15.03	-97.68	112.71	0.133	Level 1<1.00
11,400.00	4,642.72	11,398.22	4,629.04	157.82	158.36	-27.02	-4,975.65	4,771.77	15.36	-97.11	112.47	0.137	Level 1<1.00
11,500.00	4,643.70	11,498.19	4,628.59	160.12	160.63	-17.68	-5,046.92	4,841.87	15.86	-95.45	111.31	0.142	Level 1<1.00
11,600.00	4,645.75	11,598.12	4,628.14	162.41	162.91	-6.40	-5,118.17	4,911.94	17.72	-93.85	111.57	0.159	Level 1<1.00
11,700.00	4,647.13	11,698.06	4,627.69	164.72	165.18	2.42	-5,189.42	4,982.02	19.45	-93.32	112.77	0.172	Level 1<1.00
11,800.00	4,648.08	11,797.96	4,627.24	167.02	167.46	13.90	-5,260.64	5,052.06	21.47	-94.05	115.52	0.186	Level 1<1.00
11,900.00	4,647.47	11,897.90	4,626.79	169.33	169.73	22.48	-5,331.90	5,122.14	22.38	-96.85	119.22	0.188	Level 1<1.00
12,000.00	4,646.52	11,997.78	4,626.35	171.64	172.00	33.29	-5,403.11	5,192.18	24.15	-102.11	126.26	0.191	Level 1<1.00
12,000.04	4,646.52	11,997.82	4,626.35	171.65	172.01	33.30	-5,403.14	5,192.21	24.15	-102.12	126.27	0.191	Level 1<1.00, ES
12,100.00	4,645.14	12,074.70	4,626.00	173.89	173.76	42.44	-5,457.95	5,246.11	35.64	-20.42	56.06	0.636	Level 1<1.00
12,156.00	4,644.46	12,074.70	4,626.00	174.81	173.76	42.44	-5,457.95	5,246.11	84.23	41.52	42.72	1.972	Level 3<2.00



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
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. 050H	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	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	47.84	26.96	29.78	40.17					
100.00	100.00	100.00	100.00	0.13	0.13	58.59	26.96	29.78	40.09	39.82	0.27	149.021		
200.00	200.00	200.00	200.00	0.31	0.49	59.17	26.96	29.78	39.84	39.03	0.81	49.377		
300.00	300.00	300.00	300.00	0.49	0.85	60.15	26.96	29.78	39.44	38.10	1.34	29.332		
400.00	399.99	399.99	399.99	0.67	1.21	61.55	26.96	29.78	38.91	37.03	1.88	20.667		
500.00	499.98	499.98	499.98	1.00	1.57	58.79	26.96	29.78	38.15	35.58	2.57	14.840		
600.00	599.96	599.96	599.96	1.36	1.93	61.83	26.96	29.78	37.26	33.97	3.29	11.329		
700.00	699.95	699.95	699.95	1.72	2.29	61.38	26.96	29.78	36.65	32.65	4.01	9.150		
800.00	799.95	799.95	799.95	2.08	2.64	63.35	26.96	29.78	36.25	31.53	4.72	7.676		
900.00	899.95	899.95	899.95	2.44	3.00	72.65	26.96	29.78	35.99	30.56	5.44	6.618		
1,000.00	999.95	999.95	999.95	2.79	3.36	73.41	26.96	29.78	35.91	29.75	6.16	5.834		
1,100.00	1,099.95	1,099.95	1,099.95	3.15	3.72	66.23	26.96	29.78	35.72	28.85	6.87	5.198		
1,200.00	1,199.94	1,199.94	1,199.94	3.51	4.08	56.19	26.96	29.78	35.52	27.93	7.59	4.681		
1,300.00	1,299.94	1,299.94	1,299.94	3.87	4.44	34.63	26.96	29.78	35.18	26.88	8.30	4.237		
1,400.00	1,399.94	1,399.94	1,399.94	4.22	4.79	28.59	26.96	29.78	34.59	25.58	9.02	3.837		
1,500.00	1,499.94	1,499.94	1,499.94	4.58	5.15	30.50	26.96	29.78	33.79	24.06	9.73	3.473		
1,600.00	1,599.93	1,599.89	1,599.89	4.93	5.51	53.63	26.96	29.78	33.14	22.70	10.45	3.173		
1,603.76	1,603.69	1,603.60	1,603.60	4.95	5.52	53.64	26.97	29.78	33.14	22.67	10.47	3.165 CC, ES		
1,700.00	1,699.93	1,698.35	1,698.31	5.29	5.86	63.18	29.23	31.22	35.30	24.15	11.14	3.168		
1,800.00	1,799.93	1,796.31	1,795.95	5.65	6.21	82.52	35.72	35.36	42.15	30.34	11.81	3.569		
1,900.00	1,899.93	1,893.25	1,892.06	6.01	6.56	78.46	46.30	42.09	54.07	41.63	12.44	4.345		
2,000.00	1,999.90	1,988.47	1,985.73	6.36	6.91	133.61	60.68	51.25	72.46	59.43	13.04	5.559		
2,100.00	2,099.70	2,081.04	2,075.87	6.71	7.27	131.00	78.42	62.54	98.46	84.86	13.59	7.243		
2,200.00	2,199.30	2,170.61	2,162.03	7.06	7.63	129.42	99.08	75.69	130.44	116.31	14.12	9.237		
2,300.00	2,298.85	2,257.23	2,244.15	7.42	8.01	129.41	122.27	90.45	166.88	152.27	14.61	11.419		
2,400.00	2,398.39	2,341.27	2,322.58	7.78	8.41	130.49	147.75	106.67	207.44	192.36	15.08	13.752		
2,500.00	2,497.95	2,431.83	2,406.46	8.08	8.86	131.74	176.55	125.01	249.80	234.08	15.71	15.896		
2,600.00	2,597.52	2,522.34	2,490.28	8.21	9.34	132.81	205.33	143.33	292.28	276.08	16.20	18.040		
2,700.00	2,697.09	2,612.79	2,574.06	8.25	9.83	132.99	234.10	161.65	334.89	318.30	16.59	20.182		
2,800.00	2,796.69	2,703.25	2,657.85	8.30	10.34	135.28	262.87	179.96	377.47	360.46	17.01	22.197		
2,900.00	2,896.32	2,793.70	2,741.62	8.37	10.87	137.77	291.64	198.28	420.06	402.63	17.43	24.093		
3,000.00	2,995.99	2,884.17	2,825.41	8.46	11.41	138.71	320.41	216.59	462.60	444.72	17.88	25.872		
3,100.00	3,095.65	3,001.60	2,935.21	8.56	12.10	139.59	355.51	238.94	503.16	484.49	18.67	26.950		
3,200.00	3,195.34	3,129.59	3,057.52	8.68	12.80	140.63	387.24	259.13	537.76	518.26	19.50	27.579		
3,300.00	3,295.04	3,263.41	3,187.80	8.81	13.46	143.16	412.94	275.50	565.98	545.69	20.29	27.897		
3,400.00	3,394.76	3,402.09	3,324.71	8.95	14.07	146.85	431.40	287.25	587.44	566.43	21.01	27.955		
3,500.00	3,494.46	3,544.33	3,466.40	9.11	14.58	149.03	441.57	293.72	602.28	580.63	21.65	27.815		
3,600.00	3,594.16	3,672.12	3,594.16	9.28	14.99	156.32	443.40	294.89	610.51	588.32	22.19	27.509		
3,700.00	3,693.91	3,772.11	3,694.12	9.46	15.28	165.59	442.56	295.71	617.23	594.54	22.69	27.204		
3,800.00	3,793.72	3,869.91	3,790.72	9.64	15.54	173.88	432.19	305.92	623.24	600.07	23.17	26.900		
3,900.00	3,893.71	3,960.66	3,876.94	9.82	15.75	-152.47	412.22	325.56	625.87	602.24	23.64	26.478		
4,000.00	3,993.71	4,041.04	3,948.78	10.00	15.93	-154.71	386.63	350.73	631.06	606.98	24.08	26.209		
4,100.00	4,093.56	4,111.91	4,007.42	10.18	16.07	-84.77	358.31	378.59	641.26	616.82	24.44	26.241		
4,200.00	4,191.71	4,178.84	4,057.91	10.34	16.21	-77.31	327.03	409.37	655.38	630.71	24.68	26.557		
4,300.00	4,285.99	4,250.00	4,105.57	10.50	16.38	-68.63	289.41	446.37	670.76	645.88	24.88	26.959		
4,400.00	4,374.16	4,300.00	4,134.98	10.66	16.53	-64.31	260.59	474.72	684.48	659.56	24.91	27.474		
4,500.00	4,454.00	4,381.36	4,176.59	10.84	16.85	-62.43	210.77	523.73	697.69	672.36	25.33	27.544		
4,600.00	4,522.75	4,450.00	4,208.61	11.34	17.25	-61.78	167.51	566.28	710.07	684.17	25.90	27.416		
4,700.00	4,577.65	4,500.00	4,227.37	12.09	17.64	-60.08	134.48	598.78	721.34	694.73	26.61	27.107		
4,800.00	4,621.40	4,566.86	4,246.00	13.11	18.28	-58.60	88.73	643.78	730.99	703.15	27.83	26.265		
4,900.00	4,652.61	4,625.58	4,256.11	14.41	18.94	-57.07	47.51	684.32	737.55	708.26	29.29	25.180		
5,000.00	4,666.66	4,684.06	4,260.24	15.93	19.67	-56.63	5.94	725.21	739.48	708.37	31.11	23.767		

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. 050H
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. 050H	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
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	
5,100.00	4,669.58	4,773.87	4,259.95	17.61	20.90	-56.39	-58.08	788.18	739.94	706.39	33.55	22.057	
5,200.00	4,666.89	4,873.81	4,259.44	19.43	22.42	-56.45	-129.33	858.26	736.57	700.19	36.38	20.245	
5,300.00	4,664.19	4,973.70	4,258.92	21.34	24.06	-56.39	-200.55	928.31	732.01	692.64	39.37	18.594	
5,400.00	4,663.31	5,073.69	4,258.41	23.31	25.80	-56.35	-271.83	998.42	730.62	688.14	42.48	17.200	
5,500.00	4,660.98	5,173.66	4,257.90	25.34	27.63	-56.44	-343.11	1,068.53	728.68	682.94	45.74	15.932	
5,590.91	4,660.12	5,264.56	4,257.43	27.22	29.34	-56.39	-407.91	1,132.27	727.50	678.76	48.74	14.927	
5,600.00	4,659.81	5,273.64	4,257.38	27.41	29.51	-56.39	-414.38	1,138.63	726.90	677.86	49.04	14.824	
5,700.00	4,661.14	5,373.62	4,256.87	29.50	31.45	-56.27	-485.66	1,208.74	727.95	675.59	52.35	13.905	
5,800.00	4,661.23	5,473.62	4,256.35	31.63	33.44	-56.21	-556.95	1,278.86	727.92	672.17	55.74	13.058	
5,900.00	4,658.93	5,573.59	4,255.84	33.78	35.46	-56.30	-628.22	1,348.96	725.82	666.58	59.24	12.252	
5,968.94	4,657.29	5,642.50	4,255.49	35.27	36.87	-56.32	-677.36	1,397.29	724.59	662.91	61.68	11.747	
6,000.00	4,657.08	5,673.57	4,255.33	35.94	37.51	-56.34	-699.50	1,419.07	724.98	662.19	62.79	11.547	
6,100.00	4,655.96	5,773.54	4,254.81	38.10	39.58	-56.46	-770.77	1,489.17	726.44	660.05	66.39	10.942	
6,200.00	4,653.59	5,873.50	4,254.30	40.27	41.68	-56.68	-842.04	1,559.27	727.14	657.07	70.08	10.377	
6,300.00	4,654.93	5,973.47	4,253.78	42.47	43.80	-56.61	-913.31	1,629.37	728.67	655.09	73.58	9.903	
6,400.00	4,657.38	6,073.42	4,253.27	44.68	45.93	-56.38	-984.57	1,699.45	729.85	652.84	77.01	9.477	
6,500.00	4,658.73	6,173.39	4,252.76	46.90	48.08	-56.19	-1,055.84	1,769.56	729.73	649.27	80.46	9.070	
6,600.00	4,658.53	6,273.38	4,252.24	49.13	50.24	-56.11	-1,127.12	1,839.67	728.55	644.58	83.97	8.676	
6,700.00	4,656.34	6,373.34	4,251.73	51.37	52.41	-56.16	-1,198.39	1,909.77	726.03	638.45	87.59	8.289	
6,800.00	4,653.02	6,473.28	4,251.21	53.62	54.59	-56.24	-1,269.64	1,979.85	722.85	631.57	91.28	7.919	
6,900.00	4,653.18	6,573.25	4,250.70	55.87	56.77	-56.07	-1,340.91	2,049.95	721.50	626.75	94.75	7.615	
7,000.00	4,654.18	6,673.17	4,250.19	58.14	58.97	-55.81	-1,412.15	2,120.01	719.27	621.19	98.08	7.334	
7,097.99	4,655.76	6,771.09	4,249.68	60.36	61.13	-55.54	-1,481.95	2,188.68	717.88	616.59	101.29	7.087	
7,100.00	4,655.11	6,773.10	4,249.67	60.40	61.17	-55.56	-1,483.38	2,190.08	717.23	615.84	101.39	7.074	
7,200.00	4,658.90	6,872.99	4,249.16	62.66	63.38	-55.22	-1,554.60	2,260.13	718.33	613.78	104.55	6.870	
7,300.00	4,661.78	6,972.91	4,248.64	64.92	65.59	-54.90	-1,625.84	2,330.20	718.80	611.05	107.74	6.671	
7,311.94	4,662.04	6,984.85	4,248.58	65.19	65.85	-54.88	-1,634.35	2,338.57	718.77	610.64	108.13	6.647	
7,400.00	4,663.68	7,072.87	4,248.13	67.18	67.81	-54.75	-1,697.10	2,400.29	719.79	608.74	111.05	6.481	
7,500.00	4,665.04	7,172.83	4,247.62	69.41	70.03	-54.71	-1,768.37	2,470.39	722.56	608.02	114.54	6.308	
7,600.00	4,664.82	7,272.81	4,247.10	71.66	72.26	-54.76	-1,839.65	2,540.49	724.31	606.16	118.15	6.130	
7,700.00	4,662.48	7,372.78	4,246.59	73.90	74.49	-54.97	-1,910.91	2,610.59	724.76	602.82	121.94	5.944	
7,800.00	4,659.07	7,472.73	4,246.07	76.16	76.72	-55.20	-1,982.17	2,680.68	723.17	597.45	125.72	5.752	
7,900.00	4,655.02	7,572.67	4,245.56	78.42	78.96	-55.39	-2,053.42	2,750.76	720.77	591.23	129.54	5.564	
7,940.78	4,653.78	7,613.44	4,245.35	79.34	79.87	-55.45	-2,082.49	2,779.34	720.47	589.37	131.10	5.496	
8,000.00	4,653.14	7,672.63	4,245.05	80.67	81.19	-55.54	-2,124.69	2,820.86	721.55	588.22	133.33	5.412	
8,100.00	4,652.74	7,772.59	4,244.53	82.91	83.44	-55.66	-2,195.95	2,890.95	723.98	586.93	137.05	5.283	
8,200.00	4,652.27	7,872.54	4,244.02	85.15	85.68	-55.79	-2,267.21	2,961.04	726.60	585.79	140.80	5.160	
8,300.00	4,650.67	7,972.51	4,243.50	87.40	87.93	-55.97	-2,338.48	3,031.13	727.96	583.33	144.62	5.033	
8,400.00	4,648.42	8,072.48	4,242.99	89.66	90.18	-56.18	-2,409.75	3,101.23	728.46	579.99	148.48	4.906	
8,500.00	4,648.28	8,172.47	4,242.48	91.92	92.43	-56.17	-2,481.04	3,171.35	728.85	576.87	151.98	4.796	
8,600.00	4,648.67	8,272.47	4,241.96	94.19	94.68	-56.11	-2,552.33	3,241.47	729.32	573.92	155.40	4.693	
8,700.00	4,648.52	8,372.46	4,241.45	96.47	96.93	-56.03	-2,623.61	3,311.59	728.56	569.80	158.76	4.589	
8,800.00	4,647.35	8,472.42	4,240.93	98.76	99.19	-55.98	-2,694.88	3,381.68	726.09	563.98	162.11	4.479	
8,891.75	4,646.82	8,564.15	4,240.46	100.85	101.26	-55.89	-2,760.28	3,446.01	724.67	559.52	165.15	4.388	
8,900.00	4,646.47	8,572.39	4,240.42	101.04	101.44	-55.89	-2,766.15	3,451.78	724.10	558.67	165.43	4.377	
9,000.00	4,647.77	8,672.37	4,239.91	103.32	103.70	-55.77	-2,837.43	3,521.89	725.12	556.45	168.67	4.299	
9,100.00	4,647.91	8,772.36	4,239.39	105.60	105.96	-55.69	-2,908.71	3,592.01	724.58	552.66	171.92	4.215	
9,200.00	4,645.87	8,872.33	4,238.88	107.89	108.22	-55.72	-2,979.98	3,662.10	721.94	546.60	175.34	4.117	
9,284.81	4,644.60	8,957.12	4,238.44	109.82	110.14	-55.68	-3,040.43	3,721.56	720.46	542.23	178.22	4.042	
9,300.00	4,644.68	8,972.31	4,238.36	110.17	110.48	-55.68	-3,051.26	3,732.21	720.60	541.88	178.73	4.032	
9,400.00	4,645.90	9,072.29	4,237.85	112.44	112.75	-55.57	-3,122.54	3,802.32	721.63	539.73	181.90	3.967	
9,500.00	4,648.38	9,172.24	4,237.34	114.71	115.01	-55.43	-3,193.80	3,872.41	723.91	538.96	184.95	3.914	

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. 050H
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. 050H	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 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
9,600.00	4,652.60	9,272.13	4,236.82	116.98	117.27	-55.16	-3,265.01	3,942.45	727.02	539.33	187.70	3.873
9,700.00	4,655.75	9,372.03	4,236.31	119.23	119.53	-55.01	-3,336.24	4,012.51	730.93	540.16	190.77	3.831
9,800.00	4,659.08	9,471.90	4,235.79	121.48	121.80	-54.91	-3,407.43	4,082.54	735.98	542.01	193.96	3.794
9,900.00	4,658.60	9,571.86	4,235.28	123.74	124.06	-54.99	-3,478.70	4,152.63	737.91	540.33	197.58	3.735
10,000.00	4,656.51	9,671.83	4,234.77	126.03	126.33	-55.04	-3,549.97	4,222.73	735.65	534.72	200.93	3.661
10,100.00	4,653.92	9,771.78	4,234.25	128.31	128.60	-55.07	-3,621.23	4,292.82	732.91	528.59	204.31	3.587
10,119.31	4,653.71	9,791.09	4,234.15	128.75	129.04	-55.07	-3,635.00	4,306.36	732.86	527.89	204.97	3.575
10,200.00	4,654.13	9,871.77	4,233.74	130.58	130.87	-55.09	-3,692.51	4,362.93	734.47	526.78	207.69	3.536
10,300.00	4,655.04	9,971.73	4,233.22	132.84	133.14	-55.03	-3,763.78	4,433.03	736.65	525.68	210.97	3.492
10,400.00	4,652.21	10,071.62	4,232.71	135.09	135.40	-55.34	-3,834.99	4,503.07	738.83	523.59	215.24	3.433
10,500.00	4,649.97	10,171.53	4,232.20	137.34	137.67	-55.64	-3,906.22	4,573.13	740.98	521.61	219.36	3.378
10,600.00	4,650.23	10,271.47	4,231.68	139.59	139.94	-55.78	-3,977.47	4,643.21	744.15	521.14	223.00	3.337
10,700.00	4,650.17	10,371.42	4,231.17	141.85	142.21	-55.83	-4,048.72	4,713.30	746.70	520.08	226.62	3.295
10,800.00	4,647.38	10,471.35	4,230.66	144.10	144.49	-56.10	-4,119.97	4,783.37	747.71	517.00	230.72	3.241
10,900.00	4,646.16	10,571.33	4,230.14	146.37	146.76	-56.25	-4,191.25	4,853.48	748.84	514.44	234.41	3.195
11,000.00	4,645.82	10,671.32	4,229.63	148.65	149.03	-56.21	-4,262.53	4,923.60	748.44	510.87	237.57	3.150
11,100.00	4,646.73	10,771.27	4,229.11	150.95	151.30	-55.99	-4,333.79	4,993.68	746.99	506.84	240.15	3.110
11,200.00	4,646.41	10,871.24	4,228.60	153.24	153.58	-55.92	-4,405.06	5,063.78	745.37	502.35	243.02	3.067
11,300.00	4,643.45	10,971.21	4,228.08	155.53	155.85	-56.04	-4,476.33	5,133.88	743.34	496.75	246.59	3.014
11,400.00	4,642.72	11,071.20	4,227.57	157.82	158.13	-55.99	-4,547.62	5,204.00	742.24	492.59	249.65	2.973
11,500.00	4,643.70	11,171.16	4,227.06	160.12	160.40	-55.79	-4,618.88	5,274.09	741.29	489.12	252.17	2.940
11,600.00	4,645.75	11,271.09	4,226.54	162.41	162.67	-55.49	-4,690.12	5,344.16	740.40	486.08	254.31	2.911
11,700.00	4,647.13	11,371.03	4,226.03	164.72	164.95	-55.24	-4,761.37	5,414.24	739.17	482.62	256.55	2.881
11,800.00	4,648.08	11,470.92	4,225.52	167.02	167.22	-54.97	-4,832.59	5,484.29	736.45	477.94	258.51	2.849
11,900.00	4,647.47	11,570.87	4,225.00	169.33	169.50	-54.83	-4,903.84	5,554.37	733.61	472.67	260.94	2.811
12,000.00	4,646.52	11,670.75	4,224.49	171.64	171.77	-54.65	-4,975.05	5,624.42	729.52	466.39	263.12	2.773
12,100.00	4,645.14	11,770.56	4,223.97	173.89	174.05	-54.41	-5,046.21	5,694.40	724.05	459.06	264.99	2.732
12,156.00	4,644.46	11,826.43	4,223.69	174.81	175.32	-54.26	-5,086.04	5,733.58	720.74	455.07	265.67	2.713 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. 050H
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. 050H	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 - 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	47.84	26.96	29.78	40.17					
100.00	100.00	99.91	99.91	0.13	0.17	58.36	27.15	29.76	40.20	39.89	0.30	132.623		
200.00	200.00	199.82	199.82	0.31	0.34	58.26	27.73	29.69	40.29	39.64	0.65	61.888		
300.00	300.00	299.73	299.72	0.49	0.51	58.10	28.68	29.58	40.44	39.44	1.00	40.485		
400.00	399.99	399.64	399.62	0.67	0.67	57.87	30.03	29.42	40.65	39.30	1.35	30.183		
500.00	499.98	499.63	499.60	1.00	1.00	52.92	31.69	29.15	40.72	38.72	2.01	20.296		
600.00	599.96	599.63	599.58	1.36	1.36	53.40	33.48	28.76	40.57	37.85	2.72	14.893		
624.77	624.73	624.40	624.35	1.45	1.45	52.99	33.92	28.67	40.56	37.66	2.90	13.977		
700.00	699.95	699.67	699.61	1.72	1.72	50.60	35.15	28.43	40.69	37.25	3.44	11.822		
800.00	799.95	799.73	799.66	2.08	2.08	50.31	36.71	27.99	40.92	36.76	4.16	9.838		
900.00	899.95	899.80	899.72	2.44	2.44	57.82	37.97	27.67	41.19	36.31	4.88	8.447		
1,000.00	999.95	999.94	999.85	2.79	2.80	57.05	38.95	27.21	41.39	35.79	5.59	7.400		
1,100.00	1,099.95	1,099.99	1,099.90	3.15	3.15	48.43	39.65	26.64	41.20	34.89	6.31	6.532		
1,200.00	1,199.94	1,200.00	1,199.90	3.51	3.51	37.18	40.23	26.19	41.00	33.98	7.02	5.838		
1,300.00	1,299.94	1,300.01	1,299.92	3.87	3.87	14.51	40.70	25.80	40.66	32.92	7.74	5.255		
1,400.00	1,399.94	1,400.10	1,400.00	4.22	4.22	7.30	41.05	25.38	39.97	31.53	8.45	4.732		
1,500.00	1,499.94	1,500.11	1,500.01	4.58	4.58	7.96	41.19	24.90	38.85	29.70	9.15	4.244		
1,540.89	1,540.83	1,540.63	1,540.53	4.72	4.72	13.57	41.30	24.81	38.52	29.08	9.44	4.079 CC, ES		
1,600.00	1,599.93	1,598.68	1,598.56	4.93	4.92	29.97	42.39	25.42	39.35	29.49	9.85	3.993 SF		
1,700.00	1,699.93	1,695.79	1,695.45	5.29	5.27	40.85	47.56	29.10	45.53	35.01	10.52	4.329		
1,800.00	1,799.93	1,792.46	1,791.35	5.65	5.61	64.53	57.24	36.34	57.76	46.60	11.16	5.176		
1,900.00	1,899.93	1,888.04	1,885.51	6.01	5.97	65.54	70.20	46.29	74.67	62.89	11.78	6.341		
2,000.00	1,999.90	1,981.64	1,976.92	6.36	6.34	124.98	85.87	58.91	97.17	84.81	12.36	7.860		
2,100.00	2,099.70	2,071.12	2,063.28	6.71	6.71	125.48	103.69	74.04	126.81	113.92	12.88	9.842		
2,200.00	2,199.30	2,158.17	2,146.07	7.06	7.10	126.19	124.01	91.62	162.66	149.26	13.40	12.138		
2,300.00	2,298.85	2,246.26	2,228.87	7.42	7.53	127.80	147.16	110.80	202.00	188.01	13.99	14.444		
2,400.00	2,398.39	2,335.64	2,312.48	7.78	7.99	130.23	171.47	130.98	242.75	228.13	14.62	16.604		
2,500.00	2,497.95	2,429.01	2,399.75	8.08	8.49	132.55	197.15	152.04	283.82	268.52	15.30	18.551		
2,600.00	2,597.52	2,525.11	2,489.95	8.21	9.01	134.12	223.84	171.71	323.71	307.84	15.87	20.396		
2,700.00	2,697.09	2,558.00	2,520.91	8.25	9.19	134.65	232.86	178.16	367.77	352.49	15.28	24.073		
2,800.00	2,796.69	2,558.00	2,520.91	8.30	9.19	137.37	232.86	178.16	429.71	415.67	14.04	30.607		
2,900.00	2,896.32	2,558.00	2,520.91	8.37	9.19	140.43	232.86	178.16	504.02	491.04	12.99	38.815		
3,000.00	2,995.99	2,558.00	2,520.91	8.46	9.19	141.86	232.86	178.16	585.98	573.79	12.19	48.083		
3,100.00	3,095.65	2,558.00	2,520.91	8.56	9.19	143.20	232.86	178.16	672.87	661.25	11.61	57.949		
3,200.00	3,195.34	2,558.00	2,520.91	8.68	9.19	144.66	232.86	178.16	762.93	751.72	11.21	68.084		
3,300.00	3,295.04	2,558.00	2,520.91	8.81	9.19	147.68	232.86	178.16	855.19	844.27	10.92	78.298		
3,400.00	3,394.76	2,558.00	2,520.91	8.95	9.19	151.81	232.86	178.16	949.01	938.28	10.73	88.436		
3,500.00	3,494.46	2,558.00	2,520.91	9.11	9.19	153.79	232.86	178.16	1,044.11	1,033.50	10.61	98.398		
3,600.00	3,594.16	2,558.00	2,520.91	9.28	9.19	162.74	232.86	178.16	1,140.08	1,129.54	10.54	108.138		
3,700.00	3,693.91	2,558.00	2,520.91	9.46	9.19	173.95	232.86	178.16	1,236.64	1,226.13	10.51	117.666		
3,800.00	3,793.72	2,558.00	2,520.91	9.64	9.19	-177.63	232.86	178.16	1,333.47	1,322.97	10.50	127.011		

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. 050H
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. 050H	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	48.20	40.07	44.81	60.12				
100.00	100.00	100.00	100.00	0.13	0.13	58.87	40.07	44.81	60.04	59.77	0.27	223.191	
200.00	200.00	200.00	200.00	0.31	0.49	59.26	40.07	44.81	59.79	58.99	0.81	74.105	
300.00	300.00	300.00	300.00	0.49	0.85	59.91	40.07	44.81	59.40	58.05	1.34	44.169	
400.00	399.99	399.99	399.99	0.67	1.21	60.84	40.07	44.81	58.85	56.97	1.88	31.260	
500.00	499.98	499.98	499.98	1.00	1.57	57.40	40.07	44.81	58.07	55.50	2.57	22.587	
600.00	599.96	599.96	599.96	1.36	1.93	59.59	40.07	44.81	57.13	53.84	3.29	17.372	
700.00	699.95	699.95	699.95	1.72	2.29	58.50	40.07	44.81	56.47	52.47	4.01	14.099	
800.00	799.95	799.95	799.95	2.08	2.64	60.03	40.07	44.81	56.03	51.31	4.72	11.865	
900.00	899.95	899.95	899.95	2.44	3.00	68.97	40.07	44.81	55.74	50.30	5.44	10.248	
1,000.00	999.95	999.95	999.95	2.79	3.36	69.50	40.07	44.81	55.63	49.47	6.16	9.038	
1,100.00	1,099.95	1,099.95	1,099.95	3.15	3.72	62.06	40.07	44.81	55.41	48.54	6.87	8.063	
1,200.00	1,199.94	1,199.94	1,199.94	3.51	4.08	51.77	40.07	44.81	55.18	47.59	7.59	7.272	
1,300.00	1,299.94	1,299.94	1,299.94	3.87	4.44	29.98	40.07	44.81	54.81	46.51	8.30	6.602	
1,400.00	1,399.94	1,399.94	1,399.94	4.22	4.79	23.69	40.07	44.81	54.20	45.18	9.02	6.011	
1,500.00	1,499.94	1,499.86	1,499.86	4.58	5.15	25.24	40.08	44.82	53.37	43.64	9.73	5.485	
1,514.20	1,514.13	1,513.69	1,513.69	4.63	5.20	26.97	40.13	44.86	53.31	43.48	9.83	5.424 CC, ES	
1,600.00	1,599.93	1,597.25	1,597.20	4.93	5.50	47.04	42.15	46.43	55.21	44.79	10.42	5.297	
1,700.00	1,699.93	1,694.15	1,693.80	5.29	5.84	56.27	48.09	51.07	62.36	51.27	11.09	5.623	
1,800.00	1,799.93	1,790.06	1,788.91	5.65	6.19	77.74	57.76	58.63	74.50	62.77	11.73	6.353	
1,900.00	1,899.93	1,884.53	1,881.87	6.01	6.54	76.44	70.96	68.93	91.65	79.32	12.33	7.434	
2,000.00	1,999.90	1,976.82	1,971.79	6.36	6.90	133.47	87.33	81.72	115.03	102.14	12.89	8.924	
2,100.00	2,099.70	2,066.00	2,057.62	6.71	7.26	131.61	106.39	96.60	145.77	132.35	13.42	10.861	
2,200.00	2,199.30	2,151.84	2,139.08	7.06	7.64	130.46	127.69	113.23	182.33	168.41	13.92	13.100	
2,300.00	2,298.85	2,240.19	2,221.86	7.42	8.06	130.94	152.02	132.23	222.46	207.94	14.51	15.329	
2,400.00	2,398.39	2,331.59	2,307.40	7.78	8.52	132.62	177.41	152.06	263.03	247.84	15.19	17.320	
2,500.00	2,497.95	2,422.95	2,392.89	8.08	8.99	134.42	202.79	171.88	303.70	287.87	15.82	19.192	
2,600.00	2,597.52	2,514.26	2,478.34	8.21	9.49	135.91	228.16	191.69	344.47	328.15	16.32	21.109	
2,700.00	2,697.09	2,605.52	2,563.75	8.25	9.99	136.38	253.51	211.49	385.35	368.63	16.71	23.054	
2,800.00	2,796.69	2,696.81	2,649.18	8.30	10.51	138.91	278.87	231.29	426.16	409.03	17.13	24.878	
2,900.00	2,896.32	2,788.10	2,734.61	8.37	11.04	141.59	304.24	251.09	466.96	449.40	17.56	26.589	
3,000.00	2,995.99	2,879.43	2,820.08	8.46	11.58	142.68	329.61	270.91	507.66	489.65	18.01	28.188	
3,100.00	3,095.65	2,970.73	2,905.52	8.56	12.13	143.72	354.97	290.71	548.43	529.96	18.47	29.689	
3,200.00	3,195.34	3,062.07	2,991.00	8.68	12.68	144.73	380.34	310.53	589.11	570.16	18.95	31.086	
3,300.00	3,295.04	3,153.42	3,076.48	8.81	13.24	147.09	405.72	330.34	629.76	610.32	19.44	32.390	
3,400.00	3,394.76	3,244.76	3,161.97	8.95	13.80	150.47	431.10	350.16	670.39	650.44	19.95	33.607	
3,500.00	3,494.46	3,335.92	3,247.27	9.11	14.37	152.14	456.42	369.93	711.44	690.98	20.46	34.765	
3,600.00	3,594.16	3,427.01	3,332.52	9.28	14.94	159.04	481.73	389.69	752.63	731.64	20.99	35.854	
3,700.00	3,693.91	3,518.10	3,417.76	9.46	15.52	167.92	507.03	409.45	793.73	772.21	21.52	36.876	
3,800.00	3,793.72	3,609.50	3,503.30	9.64	16.10	174.70	532.42	429.28	834.03	811.97	22.06	37.799	
3,900.00	3,893.71	3,702.64	3,590.46	9.82	16.69	-154.48	558.29	449.49	870.02	847.41	22.61	38.475	
4,000.00	3,993.71	3,796.03	3,677.85	10.00	17.29	-160.36	584.24	469.75	905.36	882.18	23.17	39.067	
4,100.00	4,093.56	3,889.02	3,764.88	10.18	17.89	-92.61	610.07	489.92	940.83	917.10	23.73	39.645	
4,200.00	4,191.71	3,979.59	3,849.64	10.34	18.47	-87.49	635.23	509.57	976.35	952.11	24.25	40.270	
4,300.00	4,285.99	4,066.31	3,930.79	10.50	19.03	-81.76	659.32	528.38	1,010.44	985.71	24.73	40.853	
4,400.00	4,374.16	4,147.83	4,007.08	10.66	19.56	-79.91	681.97	546.06	1,041.83	1,016.59	25.24	41.271	
4,500.00	4,454.00	4,221.08	4,075.63	10.84	20.04	-81.13	702.32	561.95	1,074.00	1,048.17	25.83	41.579	
4,600.00	4,522.75	4,309.59	4,158.44	11.34	20.61	-82.73	723.66	584.48	1,110.46	1,083.66	26.80	41.443	
4,700.00	4,577.65	4,425.30	4,264.67	12.09	21.34	-83.10	736.95	627.86	1,148.27	1,120.05	28.22	40.687	
4,800.00	4,621.40	4,593.46	4,406.78	13.11	22.33	-86.06	725.56	715.90	1,183.22	1,153.00	30.22	39.152	
4,900.00	4,652.61	4,828.13	4,560.33	14.41	23.64	-88.17	651.35	874.65	1,208.57	1,175.63	32.94	36.693	
5,000.00	4,666.66	5,100.40	4,666.33	15.93	25.57	-90.21	507.52	1,077.53	1,224.93	1,188.40	36.54	33.526	

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. 050H
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. 050H	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
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	
5,100.00	4,669.58	5,303.79	4,677.95	17.61	27.43	-90.41	366.82	1,223.19	1,224.32	1,184.03	40.28	30.392	
5,200.00	4,666.89	5,403.73	4,677.44	19.43	28.56	-90.56	295.57	1,293.27	1,221.74	1,178.22	43.51	28.077	
5,300.00	4,664.19	5,503.62	4,676.93	21.34	29.83	-90.62	224.36	1,363.32	1,217.74	1,170.71	47.03	25.894	
5,400.00	4,663.31	5,603.61	4,676.41	23.31	31.23	-90.62	153.07	1,433.43	1,216.33	1,165.64	50.69	23.994	
5,500.00	4,660.98	5,703.58	4,675.90	25.34	32.75	-90.73	81.80	1,503.54	1,215.22	1,160.74	54.48	22.304	
5,600.00	4,659.81	5,803.56	4,675.39	27.41	34.36	-90.73	10.53	1,573.65	1,213.53	1,155.14	58.39	20.784	
5,661.19	4,660.39	5,864.75	4,675.07	28.69	35.38	-90.69	-33.09	1,616.56	1,213.39	1,152.56	60.83	19.948	
5,700.00	4,661.14	5,903.54	4,674.87	29.50	36.05	-90.65	-60.75	1,643.76	1,213.55	1,151.16	62.39	19.452	
5,800.00	4,661.23	6,003.53	4,674.36	31.63	37.81	-90.62	-132.03	1,713.88	1,213.10	1,146.64	66.46	18.254	
5,900.00	4,658.93	6,103.51	4,673.85	33.78	39.62	-90.75	-203.30	1,783.98	1,211.80	1,141.22	70.58	17.169	
5,954.65	4,657.52	6,158.14	4,673.57	34.96	40.64	-90.76	-242.25	1,822.29	1,211.15	1,138.29	72.86	16.624	
6,000.00	4,657.08	6,203.48	4,673.33	35.94	41.49	-90.76	-274.58	1,854.09	1,211.70	1,136.94	74.75	16.209	
6,100.00	4,655.96	6,303.46	4,672.82	38.10	43.40	-90.77	-345.85	1,924.20	1,213.87	1,134.91	78.95	15.374	
6,200.00	4,653.59	6,403.42	4,672.31	40.27	45.35	-90.87	-417.11	1,994.30	1,215.96	1,132.78	83.19	14.617	
6,300.00	4,654.93	6,503.39	4,671.79	42.47	47.32	-90.79	-488.38	2,064.40	1,216.54	1,129.07	87.48	13.907	
6,400.00	4,657.38	6,603.34	4,671.28	44.68	49.33	-90.64	-559.64	2,134.49	1,215.96	1,124.15	91.81	13.245	
6,500.00	4,658.73	6,703.31	4,670.77	46.90	51.36	-90.56	-630.91	2,204.59	1,214.56	1,118.40	96.16	12.630	
6,600.00	4,658.53	6,803.30	4,670.25	49.13	53.41	-90.57	-702.19	2,274.71	1,212.93	1,112.40	100.53	12.065	
6,700.00	4,656.34	6,903.26	4,669.74	51.37	55.49	-90.67	-773.45	2,344.81	1,211.04	1,106.13	104.91	11.543	
6,800.00	4,653.02	7,003.20	4,669.23	53.62	57.57	-90.79	-844.70	2,414.89	1,209.13	1,099.82	109.31	11.062	
6,900.00	4,653.18	7,103.17	4,668.72	55.87	59.68	-90.72	-915.97	2,484.99	1,207.05	1,093.32	113.73	10.613	
7,000.00	4,654.18	7,203.09	4,668.20	58.14	61.79	-90.66	-987.20	2,555.06	1,203.31	1,085.13	118.18	10.182	
7,100.00	4,655.11	7,303.01	4,667.69	60.40	63.92	-90.56	-1,058.44	2,625.13	1,199.84	1,077.21	122.63	9.784	
7,200.00	4,658.90	7,402.91	4,667.18	62.66	66.06	-90.37	-1,129.65	2,695.18	1,198.18	1,071.09	127.10	9.427	
7,300.00	4,661.78	7,502.83	4,666.66	64.92	68.21	-90.20	-1,200.89	2,765.25	1,196.36	1,064.79	131.57	9.093	
7,353.07	4,662.87	7,555.89	4,666.39	66.12	69.35	-90.17	-1,238.71	2,802.45	1,195.73	1,061.79	133.94	8.927	
7,400.00	4,663.68	7,602.79	4,666.15	67.18	70.37	-90.14	-1,272.15	2,835.35	1,195.88	1,059.84	136.04	8.791	
7,500.00	4,665.04	7,702.75	4,665.64	69.41	72.53	-90.04	-1,343.41	2,905.44	1,197.94	1,057.44	140.49	8.527	
7,600.00	4,664.82	7,802.73	4,665.12	71.66	74.70	-90.00	-1,414.69	2,975.55	1,199.88	1,054.93	144.95	8.278	
7,700.00	4,662.48	7,902.70	4,664.61	73.90	76.88	-90.08	-1,485.95	3,045.65	1,201.72	1,052.31	149.41	8.043	
7,800.00	4,659.07	8,002.65	4,664.10	76.16	79.07	-90.25	-1,557.21	3,115.75	1,201.81	1,047.93	153.88	7.810	
7,885.48	4,655.94	8,088.08	4,663.66	78.09	80.94	-90.36	-1,618.12	3,175.66	1,201.59	1,043.88	157.71	7.619	
7,900.00	4,655.02	8,102.59	4,663.58	78.42	81.26	-90.40	-1,628.46	3,185.83	1,201.37	1,043.02	158.35	7.587	
8,000.00	4,653.14	8,202.55	4,663.07	80.67	83.46	-90.46	-1,699.72	3,255.93	1,203.27	1,040.44	162.83	7.390	
8,100.00	4,652.74	8,302.51	4,662.56	82.91	85.66	-90.46	-1,770.98	3,326.02	1,206.14	1,038.84	167.30	7.209	
8,200.00	4,652.27	8,402.46	4,662.05	85.15	87.87	-90.45	-1,842.24	3,396.11	1,209.28	1,037.50	171.78	7.040	
8,300.00	4,650.67	8,502.43	4,661.53	87.40	90.08	-90.49	-1,913.51	3,466.21	1,211.67	1,035.41	176.26	6.874	
8,400.00	4,648.42	8,602.39	4,661.02	89.66	92.29	-90.59	-1,984.77	3,536.31	1,213.46	1,032.72	180.75	6.714	
8,500.00	4,648.28	8,702.39	4,660.51	91.92	94.51	-90.58	-2,056.06	3,606.43	1,213.68	1,028.43	185.26	6.551	
8,600.00	4,648.67	8,802.39	4,659.99	94.19	96.73	-90.53	-2,127.35	3,676.55	1,213.63	1,023.85	189.78	6.395	
8,700.00	4,648.52	8,902.38	4,659.48	96.47	98.95	-90.52	-2,198.63	3,746.67	1,212.48	1,018.17	194.30	6.240	
8,800.00	4,647.35	9,002.34	4,658.97	98.76	101.18	-90.58	-2,269.90	3,816.77	1,209.94	1,011.11	198.84	6.085	
8,900.00	4,646.47	9,102.31	4,658.45	101.04	103.41	-90.57	-2,341.16	3,886.87	1,207.80	1,004.43	203.37	5.939	
8,964.27	4,647.09	9,166.57	4,658.12	102.50	104.84	-90.52	-2,386.98	3,931.93	1,207.60	1,001.32	206.28	5.854	
9,000.00	4,647.77	9,202.29	4,657.94	103.32	105.64	-90.48	-2,412.44	3,956.99	1,207.78	999.88	207.90	5.809	
9,100.00	4,647.91	9,302.28	4,657.43	105.60	107.88	-90.46	-2,483.73	4,027.10	1,206.68	994.24	212.44	5.680	
9,200.00	4,645.87	9,402.25	4,656.91	107.89	110.11	-90.57	-2,554.99	4,097.20	1,204.54	987.57	216.97	5.552	
9,296.71	4,644.62	9,498.94	4,656.42	110.09	112.28	-90.56	-2,623.93	4,165.01	1,203.31	981.95	221.36	5.436	
9,300.00	4,644.68	9,502.23	4,656.40	110.17	112.35	-90.56	-2,626.27	4,167.31	1,203.40	981.89	221.51	5.433	
9,400.00	4,645.90	9,602.21	4,655.89	112.44	114.59	-90.48	-2,697.55	4,237.43	1,203.45	977.40	226.05	5.324	
9,500.00	4,648.38	9,702.16	4,655.37	114.71	116.83	-90.35	-2,768.80	4,307.52	1,204.14	973.55	230.59	5.222	
9,600.00	4,652.60	9,802.05	4,654.86	116.98	119.07	-90.13	-2,840.01	4,377.56	1,204.62	969.49	235.13	5.123	

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. 050H
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. 050H	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	
9,700.00	4,655.75	9,901.95	4,654.35	119.23	121.32	-89.99	-2,911.23	4,447.62	1,206.83	967.17	239.66	5.036	
9,800.00	4,659.08	10,001.82	4,653.84	121.48	123.56	-89.79	-2,982.43	4,517.65	1,210.31	966.13	244.18	4.957	
9,900.00	4,658.60	10,101.78	4,653.32	123.74	125.81	-89.75	-3,053.69	4,587.74	1,212.65	963.95	248.70	4.876	
10,000.00	4,656.51	10,201.75	4,652.81	126.03	128.06	-89.86	-3,124.96	4,657.85	1,210.99	957.74	253.24	4.782	
10,100.00	4,653.92	10,301.70	4,652.30	128.31	130.31	-89.92	-3,196.22	4,727.94	1,209.09	951.31	257.79	4.690	
10,102.57	4,653.89	10,304.28	4,652.28	128.37	130.37	-89.92	-3,198.05	4,729.74	1,209.09	951.19	257.90	4.688	
10,200.00	4,654.13	10,401.69	4,651.78	130.58	132.56	-89.90	-3,267.50	4,798.05	1,210.50	948.17	262.33	4.614	
10,300.00	4,655.04	10,501.65	4,651.27	132.84	134.82	-89.80	-3,338.76	4,868.15	1,212.18	945.32	266.86	4.542	
10,400.00	4,652.21	10,601.53	4,650.76	135.09	137.07	-89.86	-3,409.97	4,938.19	1,216.44	945.08	271.36	4.483	
10,500.00	4,649.97	10,701.45	4,650.24	137.34	139.32	-89.99	-3,481.20	5,008.26	1,220.22	944.35	275.87	4.423	
10,600.00	4,650.23	10,801.38	4,649.73	139.59	141.58	-90.00	-3,552.44	5,078.34	1,223.54	943.15	280.39	4.364	
10,700.00	4,650.17	10,901.33	4,649.22	141.85	143.83	-89.91	-3,623.70	5,148.43	1,226.31	941.40	284.92	4.304	
10,800.00	4,647.38	11,001.27	4,648.70	144.10	146.09	-90.03	-3,694.94	5,218.51	1,229.08	939.65	289.43	4.247	
10,900.00	4,646.16	11,101.25	4,648.19	146.37	148.35	-90.09	-3,766.22	5,288.61	1,230.92	936.95	293.96	4.187	
11,000.00	4,645.82	11,201.24	4,647.68	148.65	150.61	-90.09	-3,837.50	5,358.73	1,230.32	931.80	298.52	4.121	
11,100.00	4,646.73	11,301.19	4,647.16	150.95	152.87	-90.00	-3,908.76	5,428.82	1,227.62	924.53	303.09	4.050	
11,200.00	4,646.41	11,401.16	4,646.65	153.24	155.13	-90.03	-3,980.03	5,498.93	1,225.53	917.88	307.66	3.983	
11,300.00	4,643.45	11,501.13	4,646.14	155.53	157.40	-90.14	-4,051.29	5,569.03	1,224.74	912.54	312.20	3.923	
11,400.00	4,642.72	11,601.12	4,645.63	157.82	159.66	-90.13	-4,122.57	5,639.14	1,223.56	906.80	316.76	3.863	
11,500.00	4,643.70	11,701.08	4,645.11	160.12	161.92	-90.04	-4,193.84	5,709.24	1,221.41	900.07	321.33	3.801	
11,600.00	4,645.75	11,801.01	4,644.60	162.41	164.19	-89.92	-4,265.08	5,779.31	1,218.57	892.66	325.91	3.739	
11,700.00	4,647.13	11,900.95	4,644.09	164.72	166.45	-89.83	-4,336.33	5,849.40	1,215.78	885.29	330.49	3.679	
11,800.00	4,648.08	12,000.84	4,643.57	167.02	168.71	-89.78	-4,407.54	5,919.45	1,211.46	876.38	335.07	3.615	
11,900.00	4,647.47	12,100.79	4,643.06	169.33	170.98	-89.81	-4,478.79	5,989.53	1,208.06	868.41	339.65	3.557	
12,000.00	4,646.52	12,200.67	4,642.55	171.64	173.24	-89.85	-4,550.00	6,059.58	1,203.36	859.12	344.23	3.496	
12,100.00	4,645.14	12,300.48	4,642.04	173.89	175.51	-89.90	-4,621.16	6,129.57	1,197.26	848.52	348.75	3.433	
12,156.00	4,644.46	12,356.35	4,641.75	174.81	176.77	-89.92	-4,660.99	6,168.75	1,193.47	842.53	350.94	3.401 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. 050H
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. 050H	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	48.20	40.07	44.81	60.12				
100.00	100.00	100.04	100.04	0.13	0.17	58.79	40.12	44.73	60.00	59.70	0.30	197.956	
200.00	200.00	200.08	200.08	0.31	0.34	58.93	40.24	44.48	59.65	59.00	0.65	91.623	
300.00	300.00	300.12	300.12	0.49	0.51	59.17	40.44	44.07	59.08	58.08	1.00	59.130	
400.00	399.99	400.16	400.16	0.67	0.67	59.51	40.73	43.49	58.27	56.92	1.35	43.254	
500.00	499.98	500.15	500.14	1.00	1.00	55.13	41.25	42.66	57.16	55.15	2.01	28.474	
600.00	599.96	600.13	600.11	1.36	1.36	56.07	41.99	41.65	55.85	53.13	2.72	20.499	
700.00	699.95	700.08	700.06	1.72	1.72	53.57	42.85	40.60	54.88	51.44	3.44	15.947	
800.00	799.95	800.06	800.02	2.08	2.08	53.77	43.71	39.69	54.25	50.09	4.16	13.047	
900.00	899.95	900.15	900.11	2.44	2.44	61.51	44.38	38.77	53.64	48.76	4.88	11.003	
1,000.00	999.95	1,000.06	1,000.02	2.79	2.79	61.42	44.64	38.20	53.23	47.65	5.58	9.534	
1,100.00	1,099.95	1,099.94	1,099.88	3.15	3.12	55.94	43.26	39.41	52.97	46.70	6.28	8.441	
1,200.00	1,199.94	1,199.98	1,199.88	3.51	3.46	48.77	41.09	41.32	52.88	45.92	6.96	7.593	
1,300.00	1,299.94	1,299.93	1,299.78	3.87	3.79	30.29	38.67	43.16	52.66	45.00	7.66	6.877	
1,339.95	1,339.89	1,339.75	1,339.59	4.01	3.93	28.43	37.77	43.90	52.60	44.67	7.93	6.629 CC	
1,400.00	1,399.94	1,399.13	1,398.94	4.22	4.13	26.85	36.89	45.26	52.95	44.60	8.35	6.341 ES	
1,500.00	1,499.94	1,498.23	1,497.99	4.58	4.47	29.95	36.97	48.35	54.93	45.88	9.04	6.074	
1,600.00	1,599.93	1,597.28	1,596.94	4.93	4.82	52.28	39.34	51.94	58.58	48.84	9.74	6.016 SF	
1,700.00	1,699.93	1,694.82	1,694.21	5.29	5.16	61.13	45.03	56.31	65.12	54.70	10.42	6.251	
1,800.00	1,799.93	1,790.34	1,789.00	5.65	5.50	81.98	54.37	63.40	76.43	65.38	11.05	6.915	
1,900.00	1,899.93	1,884.07	1,881.24	6.01	5.85	80.68	66.71	74.43	93.52	81.88	11.65	8.031	
2,000.00	1,999.90	1,976.29	1,971.03	6.36	6.21	137.82	82.08	88.72	117.30	105.09	12.22	9.601	
2,100.00	2,099.70	2,064.85	2,056.20	6.71	6.58	135.76	100.17	104.89	148.60	135.85	12.75	11.659	
2,200.00	2,199.30	2,149.77	2,136.56	7.06	6.97	134.06	121.25	122.41	186.10	172.86	13.24	14.058	
2,300.00	2,298.85	2,234.62	2,215.47	7.42	7.39	133.60	146.32	140.91	227.69	213.92	13.77	16.539	
2,400.00	2,398.39	2,321.61	2,295.67	7.78	7.85	134.43	173.63	160.66	271.25	256.89	14.37	18.880	
2,500.00	2,497.95	2,411.16	2,378.05	8.08	8.36	135.65	201.86	181.50	315.44	300.45	14.99	21.040	
2,600.00	2,597.52	2,503.48	2,463.18	8.21	8.89	136.80	230.30	203.13	359.41	343.89	15.53	23.147	
2,700.00	2,697.09	2,597.18	2,549.93	8.25	9.45	137.03	258.46	224.59	402.62	386.64	15.98	25.198	
2,800.00	2,796.69	2,640.00	2,589.67	8.30	9.71	139.54	271.20	234.20	447.86	432.16	15.70	28.518	
2,900.00	2,896.32	2,640.00	2,589.67	8.37	9.71	142.47	271.20	234.20	507.20	492.47	14.73	34.427	
3,000.00	2,995.99	2,640.00	2,589.67	8.46	9.71	143.83	271.20	234.20	577.79	563.95	13.84	41.753	
3,100.00	3,095.65	2,640.00	2,589.67	8.56	9.71	145.12	271.20	234.20	656.11	643.00	13.11	50.057	
3,200.00	3,195.34	2,640.00	2,589.67	8.68	9.71	146.49	271.20	234.20	739.62	727.08	12.54	58.985	
3,300.00	3,295.04	2,640.00	2,589.67	8.81	9.71	149.36	271.20	234.20	826.77	814.66	12.11	68.270	
3,400.00	3,394.76	2,640.00	2,589.67	8.95	9.71	153.34	271.20	234.20	916.53	904.74	11.79	77.724	
3,500.00	3,494.46	2,640.00	2,589.67	9.11	9.71	155.30	271.20	234.20	1,008.39	996.82	11.57	87.184	
3,600.00	3,594.16	2,640.00	2,589.67	9.28	9.71	163.74	271.20	234.20	1,101.71	1,090.30	11.41	96.576	
3,700.00	3,693.91	2,640.00	2,589.67	9.46	9.71	174.41	271.20	234.20	1,196.03	1,184.73	11.30	105.840	
3,800.00	3,793.72	2,640.00	2,589.67	9.64	9.71	-177.56	271.20	234.20	1,290.91	1,279.68	11.22	115.006	
3,900.00	3,893.71	2,640.00	2,589.67	9.82	9.71	-146.08	271.20	234.20	1,385.04	1,373.89	11.15	124.163	

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. 050H
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. 050H	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		
11,200.00	4,646.41	4,256.31	4,226.48	153.24	11.36	-18.08	-5,661.33	5,656.24	1,396.11	1,358.80	37.30	37.425		
11,300.00	4,643.45	4,268.00	4,237.49	155.53	11.38	-20.02	-5,663.73	5,659.37	1,301.62	1,263.19	38.43	33.874		
11,400.00	4,642.72	4,268.00	4,237.49	157.82	11.38	-17.12	-5,663.73	5,659.37	1,208.57	1,168.57	39.99	30.219		
11,500.00	4,643.70	4,299.00	4,266.31	160.12	11.42	-16.73	-5,670.77	5,668.35	1,116.69	1,075.63	41.06	27.196		
11,600.00	4,645.75	4,299.00	4,266.31	162.41	11.42	-16.41	-5,670.77	5,668.35	1,026.20	983.12	43.08	23.818		
11,700.00	4,647.13	4,331.00	4,295.41	164.72	11.47	-16.86	-5,679.16	5,678.66	936.71	892.21	44.50	21.050		
11,800.00	4,648.08	4,331.00	4,295.41	167.02	11.47	-17.00	-5,679.16	5,678.66	848.23	801.14	47.09	18.012		
11,900.00	4,647.47	4,362.00	4,322.86	169.33	11.52	-18.54	-5,688.48	5,689.64	760.74	711.68	49.06	15.505		
12,000.00	4,646.52	4,382.50	4,340.57	171.64	11.55	-18.31	-5,695.27	5,697.39	674.94	623.19	51.75	13.042		
12,100.00	4,645.14	4,407.37	4,361.57	173.89	11.60	-18.22	-5,704.18	5,707.30	591.01	536.05	54.97	10.752		
12,156.00	4,644.46	4,425.00	4,376.07	174.81	11.63	-19.02	-5,710.92	5,714.74	545.28	486.99	58.29	9.354 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. 050H
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. 050H	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 #513H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 412-MWD, 2745-MWD, 15103-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:								
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	Warning	
11,100.00	4,646.73	4,394.00	4,072.39	150.95	25.17	54.16	-5,987.04	4,571.93	1,363.31	1,249.99	113.32	12.031		
11,200.00	4,646.41	4,394.00	4,072.39	153.24	25.17	54.96	-5,987.04	4,571.93	1,302.16	1,183.21	118.96	10.946		
11,300.00	4,643.45	4,408.50	4,085.06	155.53	25.25	55.89	-5,993.62	4,569.36	1,243.72	1,118.14	125.58	9.904		
11,400.00	4,642.72	4,426.00	4,100.26	157.82	25.34	56.07	-6,001.83	4,566.59	1,192.11	1,059.63	132.48	8.998		
11,500.00	4,643.70	4,432.10	4,105.54	160.12	25.37	56.29	-6,004.76	4,565.72	1,148.22	1,009.60	138.63	8.283		
11,600.00	4,645.75	4,449.02	4,120.13	162.41	25.45	57.13	-6,013.05	4,563.52	1,112.43	967.27	145.16	7.664		
11,700.00	4,647.13	4,469.92	4,138.03	164.72	25.54	58.40	-6,023.61	4,561.30	1,083.83	932.35	151.48	7.155		
11,800.00	4,648.08	4,497.15	4,161.14	167.02	25.66	59.93	-6,037.84	4,559.21	1,064.33	906.72	157.61	6.753		
11,900.00	4,647.47	4,540.96	4,197.89	169.33	25.82	62.24	-6,061.64	4,557.89	1,051.34	887.32	164.02	6.410		
12,000.00	4,646.52	4,869.08	4,457.83	171.64	26.13	77.33	-6,238.45	4,637.84	1,040.73	860.14	180.59	5.763		
12,100.00	4,645.14	4,942.24	4,507.10	173.89	26.05	80.11	-6,277.02	4,675.67	1,028.63	843.26	185.38	5.549		
12,156.00	4,644.46	4,978.21	4,528.65	174.81	26.01	81.33	-6,297.04	4,696.35	1,024.17	836.82	187.35	5.467 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. 050H
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. 050H	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													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:											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	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	3.00	3.00	0.00	0.01	-18.66	144.48	-48.78	152.49					
100.00	100.00	102.83	102.83	0.13	0.17	-8.16	144.49	-48.92	152.39	152.09	0.31	495.990		
200.00	200.00	202.67	202.67	0.31	0.34	-8.33	144.53	-49.33	152.09	151.43	0.65	232.454		
300.00	300.00	302.51	302.50	0.49	0.51	-8.60	144.58	-50.00	151.58	150.58	1.00	151.392		
400.00	399.99	402.33	402.33	0.67	0.68	-8.99	144.66	-50.93	150.87	149.53	1.35	111.910		
500.00	499.98	502.21	502.19	1.00	0.98	-14.28	144.73	-52.20	149.89	147.91	1.98	75.755		
600.00	599.96	602.79	602.76	1.36	1.32	-13.43	145.36	-51.45	148.47	145.79	2.68	55.371		
700.00	699.95	703.21	703.15	1.72	1.66	-14.75	146.17	-49.00	147.17	143.79	3.38	43.547		
800.00	799.95	803.18	803.08	2.08	2.01	-13.01	146.92	-46.47	146.26	142.17	4.08	35.815		
900.00	899.95	903.14	903.02	2.44	2.36	-3.90	147.44	-44.48	145.50	140.71	4.79	30.366		
1,000.00	999.95	1,002.90	1,002.77	2.79	2.71	-3.09	147.98	-42.87	145.14	139.64	5.50	26.384		
1,100.00	1,099.95	1,103.28	1,103.11	3.15	3.06	-10.09	148.70	-40.64	144.74	138.52	6.22	23.286		
1,183.33	1,183.28	1,185.98	1,185.65	3.45	3.36	-16.90	150.00	-35.72	144.36	137.55	6.81	21.193 CC		
1,200.00	1,199.94	1,202.35	1,201.96	3.51	3.42	-18.21	150.44	-34.28	144.39	137.46	6.93	20.832 ES		
1,300.00	1,299.94	1,300.95	1,299.75	3.87	3.79	-35.52	154.10	-22.39	145.37	137.71	7.65	18.991		
1,400.00	1,399.94	1,398.65	1,395.84	4.22	4.17	-35.48	158.86	-5.41	148.20	139.81	8.39	17.666		
1,500.00	1,499.94	1,494.65	1,489.17	4.58	4.58	-26.31	164.27	16.36	154.14	145.01	9.13	16.886		
1,600.00	1,599.93	1,588.38	1,579.01	4.93	5.02	4.77	170.03	42.41	164.99	155.14	9.85	16.746 SF		
1,700.00	1,699.93	1,677.28	1,662.94	5.29	5.49	24.38	176.35	71.00	182.71	172.21	10.51	17.389		
1,800.00	1,799.93	1,764.20	1,743.61	5.65	6.00	55.91	183.85	102.47	207.71	196.61	11.11	18.699		
1,900.00	1,899.93	1,853.62	1,825.44	6.01	6.57	63.74	192.01	137.59	238.38	226.65	11.73	20.316		
2,000.00	1,999.90	1,942.69	1,906.65	6.36	7.17	127.67	199.91	173.30	273.26	260.91	12.36	22.112		
2,100.00	2,099.70	2,030.64	1,986.63	6.71	7.79	130.76	207.76	209.03	313.24	300.26	12.98	24.134		
2,200.00	2,199.30	2,118.06	2,066.11	7.06	8.43	133.58	215.30	244.64	356.47	342.87	13.61	26.202		
2,300.00	2,298.85	2,204.98	2,145.16	7.42	9.08	137.38	222.75	280.02	401.35	387.12	14.24	28.189		
2,400.00	2,398.39	2,291.07	2,223.44	7.78	9.73	141.76	230.11	315.07	447.37	432.50	14.87	30.086		
2,500.00	2,497.95	2,375.98	2,300.50	8.08	10.38	145.83	237.22	350.02	494.44	478.98	15.46	31.982		
2,600.00	2,597.52	2,462.38	2,378.82	8.21	11.06	149.27	244.48	385.76	542.29	526.34	15.94	34.019		
2,700.00	2,697.09	2,553.70	2,461.77	8.25	11.78	151.44	252.06	423.20	590.23	573.84	16.38	36.032		
2,800.00	2,796.69	2,649.60	2,549.38	8.30	12.49	155.46	260.13	461.35	637.28	620.43	16.85	37.817		
2,900.00	2,896.32	2,741.79	2,633.96	8.37	12.93	159.37	267.53	497.27	683.51	666.49	17.02	40.154		
3,000.00	2,995.99	2,835.42	2,720.13	8.46	13.31	161.52	275.31	533.07	729.12	711.99	17.14	42.547		
3,100.00	3,095.65	2,934.16	2,811.41	8.56	13.72	163.43	284.13	569.66	774.01	756.70	17.31	44.716		
3,200.00	3,195.34	3,020.22	2,891.38	8.68	14.11	165.07	292.29	600.40	817.78	800.34	17.44	46.882		
3,300.00	3,295.04	3,088.00	2,953.69	8.81	14.43	167.95	299.12	626.18	863.62	846.11	17.51	49.325		
3,400.00	3,394.76	3,171.50	3,029.95	8.95	14.86	171.90	308.01	659.00	910.75	893.06	17.69	51.479		
3,500.00	3,494.46	3,272.12	3,122.21	9.11	15.40	174.10	319.29	697.55	957.50	939.50	18.00	53.208		
3,600.00	3,594.16	3,349.40	3,193.11	9.28	15.83	-178.59	327.44	727.19	1,004.11	985.91	18.20	55.169		
3,700.00	3,693.91	3,464.66	3,298.87	9.46	16.48	-169.05	337.54	771.88	1,050.06	1,031.43	18.63	56.368		
3,800.00	3,793.72	3,534.11	3,362.79	9.64	16.89	-162.23	343.07	798.44	1,094.15	1,075.31	18.84	58.086		
3,900.00	3,893.71	3,657.27	3,475.98	9.82	17.62	-130.87	352.05	846.11	1,134.34	1,115.00	19.34	58.667		
4,000.00	3,993.71	3,711.74	3,526.13	10.00	17.96	-136.24	356.19	866.96	1,173.32	1,153.82	19.50	60.176		
4,100.00	4,093.56	3,814.41	3,620.12	10.18	18.61	-67.89	364.78	907.33	1,212.19	1,192.26	19.93	60.811		
4,200.00	4,191.71	3,918.89	3,716.70	10.34	19.25	-62.82	374.67	945.91	1,243.12	1,222.72	20.40	60.928		
4,300.00	4,285.99	4,021.89	3,811.80	10.50	19.89	-57.92	386.52	983.66	1,266.90	1,245.98	20.92	60.550		
4,400.00	4,374.16	4,211.61	3,989.85	10.66	20.98	-59.25	408.56	1,045.11	1,278.07	1,256.08	21.99	58.129		
4,500.00	4,454.00	4,253.00	4,029.04	10.84	21.20	-61.75	413.68	1,057.40	1,280.81	1,258.33	22.48	56.966		
4,600.00	4,522.75	4,272.63	4,047.34	11.34	21.32	-63.90	416.68	1,063.83	1,284.75	1,261.60	23.14	55.513		
4,700.00	4,577.65	4,307.53	4,079.56	12.09	21.54	-64.79	423.59	1,075.32	1,288.92	1,264.67	24.25	53.147		
4,800.00	4,621.40	4,334.47	4,104.29	13.11	21.70	-65.42	430.55	1,083.39	1,293.22	1,267.53	25.69	50.342		
4,900.00	4,652.61	4,347.00	4,115.71	14.41	21.77	-65.14	434.34	1,086.87	1,297.23	1,269.85	27.38	47.372		
5,000.00	4,666.66	4,347.00	4,115.71	15.93	21.77	-64.89	434.34	1,086.87	1,300.65	1,271.35	29.30	44.388		

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. 050H
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. 050H	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		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	
5,100.00	4,669.58	4,347.00	4,115.71	17.61	21.77	-64.62	434.34	1,086.87	1,307.71	1,276.30	31.41	41.636	
5,200.00	4,666.89	4,347.00	4,115.71	19.43	21.77	-64.61	434.34	1,086.87	1,318.98	1,285.38	33.60	39.254	
5,300.00	4,664.19	4,347.00	4,115.71	21.34	21.77	-64.73	434.34	1,086.87	1,336.40	1,300.65	35.75	37.383	
5,400.00	4,663.31	4,347.00	4,115.71	23.31	21.77	-64.49	434.34	1,086.87	1,363.96	1,326.19	37.77	36.116	
5,500.00	4,660.98	4,347.00	4,115.71	25.34	21.77	-64.53	434.34	1,086.87	1,397.80	1,358.16	39.64	35.262	

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. 050H
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. 050H	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	3.00	3.00	0.00	0.01	-18.66	144.48	-48.78	152.49					
100.00	100.00	102.83	102.83	0.13	0.17	-8.16	144.49	-48.92	152.39	152.09	0.31	495.990		
200.00	200.00	202.67	202.67	0.31	0.34	-8.33	144.53	-49.33	152.09	151.43	0.65	232.454		
300.00	300.00	302.51	302.50	0.49	0.51	-8.60	144.58	-50.00	151.58	150.58	1.00	151.392		
400.00	399.99	402.33	402.33	0.67	0.68	-8.99	144.66	-50.93	150.87	149.53	1.35	111.910		
500.00	499.98	502.21	502.19	1.00	0.98	-14.28	144.73	-52.20	149.89	147.91	1.98	75.755		
600.00	599.96	602.79	602.76	1.36	1.32	-13.43	145.36	-51.45	148.47	145.79	2.68	55.371		
700.00	699.95	703.21	703.15	1.72	1.66	-14.75	146.17	-49.00	147.17	143.79	3.38	43.547		
800.00	799.95	803.18	803.08	2.08	2.01	-13.01	146.92	-46.47	146.26	142.17	4.08	35.815		
900.00	899.95	903.14	903.02	2.44	2.36	-3.90	147.44	-44.48	145.50	140.71	4.79	30.366		
1,000.00	999.95	1,002.90	1,002.77	2.79	2.71	-3.09	147.98	-42.87	145.14	139.64	5.50	26.384		
1,100.00	1,099.95	1,103.28	1,103.11	3.15	3.06	-10.09	148.70	-40.64	144.74	138.52	6.22	23.286		
1,183.33	1,183.28	1,185.98	1,185.65	3.45	3.36	-16.90	150.00	-35.72	144.36	137.55	6.81	21.193 CC		
1,200.00	1,199.94	1,202.35	1,201.96	3.51	3.42	-18.21	150.44	-34.28	144.39	137.46	6.93	20.832 ES		
1,300.00	1,299.94	1,300.95	1,299.75	3.87	3.79	-35.52	154.10	-22.39	145.37	137.71	7.65	18.991		
1,400.00	1,399.94	1,398.65	1,395.84	4.22	4.17	-35.48	158.86	-5.41	148.20	139.81	8.39	17.666		
1,500.00	1,499.94	1,494.65	1,489.17	4.58	4.58	-26.31	164.27	16.36	154.14	145.01	9.13	16.885		
1,600.00	1,599.93	1,588.38	1,579.01	4.93	5.02	4.77	170.03	42.41	164.99	155.14	9.85	16.746 SF		
1,700.00	1,699.93	1,677.28	1,662.94	5.29	5.49	24.38	176.35	71.00	182.71	172.21	10.51	17.389		
1,800.00	1,799.93	1,764.20	1,743.61	5.65	6.00	55.91	183.85	102.47	207.71	196.61	11.11	18.699		
1,900.00	1,899.93	1,853.62	1,825.44	6.01	6.57	63.74	192.01	137.59	238.38	226.65	11.73	20.316		
2,000.00	1,999.90	1,942.69	1,906.65	6.36	7.17	127.67	199.91	173.30	273.26	260.91	12.36	22.112		
2,100.00	2,099.70	2,030.64	1,986.63	6.71	7.79	130.76	207.76	209.03	313.24	300.26	12.98	24.134		
2,200.00	2,199.30	2,118.06	2,066.11	7.06	8.43	133.58	215.30	244.64	356.47	342.87	13.61	26.201		
2,300.00	2,298.85	2,204.98	2,145.16	7.42	9.08	137.38	222.75	280.02	401.35	387.12	14.24	28.189		
2,400.00	2,398.39	2,291.07	2,223.44	7.78	9.73	141.76	230.11	315.07	447.37	432.50	14.87	30.086		
2,500.00	2,497.95	2,375.98	2,300.50	8.08	10.39	145.83	237.22	350.02	494.44	478.98	15.46	31.982		
2,600.00	2,597.52	2,462.38	2,378.82	8.21	11.06	149.27	244.48	385.76	542.29	526.34	15.94	34.019		
2,700.00	2,697.09	2,553.70	2,461.77	8.25	11.78	151.44	252.06	423.20	590.23	573.84	16.38	36.032		
2,800.00	2,796.69	2,649.60	2,549.38	8.30	12.49	155.46	260.13	461.35	637.28	620.43	16.85	37.817		
2,900.00	2,896.32	2,741.79	2,633.96	8.37	12.93	159.37	267.53	497.27	683.51	666.49	17.02	40.154		
3,000.00	2,995.99	2,835.42	2,720.13	8.46	13.31	161.52	275.31	533.07	729.12	711.99	17.14	42.547		
3,100.00	3,095.65	2,934.16	2,811.41	8.56	13.72	163.43	284.13	569.66	774.01	756.70	17.31	44.716		
3,200.00	3,195.34	3,020.22	2,891.38	8.68	14.11	165.07	292.29	600.40	817.78	800.34	17.44	46.882		
3,300.00	3,295.04	3,088.00	2,953.69	8.81	14.43	167.95	299.12	626.18	863.62	846.11	17.51	49.325		
3,400.00	3,394.76	3,171.50	3,029.95	8.95	14.86	171.90	308.01	659.00	910.75	893.06	17.69	51.479		
3,500.00	3,494.46	3,272.12	3,122.21	9.11	15.40	174.10	319.29	697.55	957.50	939.50	18.00	53.208		
3,600.00	3,594.16	3,349.40	3,193.11	9.28	15.83	-178.59	327.44	727.19	1,004.11	985.91	18.20	55.169		
3,700.00	3,693.91	3,464.66	3,298.87	9.46	16.49	-169.05	337.54	771.88	1,050.06	1,031.43	18.63	56.368		
3,800.00	3,793.72	3,534.11	3,362.79	9.64	16.89	-162.23	343.07	798.44	1,094.15	1,075.31	18.84	58.086		
3,900.00	3,893.71	3,657.27	3,475.98	9.82	17.63	-130.87	352.05	846.11	1,134.34	1,115.00	19.34	58.667		
4,000.00	3,993.71	3,711.74	3,526.13	10.00	17.96	-136.24	356.19	866.96	1,173.32	1,153.82	19.50	60.176		
4,100.00	4,093.56	3,814.41	3,620.12	10.18	18.61	-67.89	364.78	907.33	1,212.19	1,192.26	19.93	60.811		
4,200.00	4,191.71	3,918.89	3,716.70	10.34	19.25	-62.82	374.67	945.91	1,243.12	1,222.72	20.40	60.928		
4,300.00	4,285.99	4,021.89	3,811.80	10.50	19.89	-57.92	386.52	983.66	1,266.90	1,245.98	20.92	60.550		
4,400.00	4,374.16	4,211.61	3,989.85	10.66	20.98	-59.25	408.56	1,045.11	1,278.07	1,256.08	21.99	58.129		
4,500.00	4,454.00	4,253.00	4,029.04	10.84	21.21	-61.75	413.68	1,057.40	1,280.81	1,258.33	22.48	56.966		
4,600.00	4,522.75	4,272.63	4,047.34	11.34	21.32	-63.90	416.68	1,063.83	1,284.75	1,261.60	23.14	55.513		
4,700.00	4,577.65	4,307.53	4,079.56	12.09	21.54	-64.79	423.59	1,075.32	1,288.92	1,264.67	24.25	53.147		
4,800.00	4,621.40	4,334.47	4,104.29	13.11	21.70	-65.42	430.55	1,083.39	1,293.22	1,267.53	25.69	50.341		
4,900.00	4,652.61	4,347.00	4,115.71	14.41	21.77	-65.14	434.34	1,086.87	1,297.23	1,269.85	27.38	47.372		
5,000.00	4,666.66	4,347.00	4,115.71	15.93	21.77	-64.89	434.34	1,086.87	1,300.65	1,271.35	29.30	44.387		

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. 050H
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. 050H	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:									
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	Warning		
5,100.00	4,669.58	4,347.00	4,115.71	17.61	21.77	-64.62	434.34	1,086.87	1,307.71	1,276.30	31.41	41.636			
5,200.00	4,666.89	4,347.00	4,115.71	19.43	21.77	-64.61	434.34	1,086.87	1,318.98	1,285.38	33.60	39.253			
5,300.00	4,664.19	4,347.00	4,115.71	21.34	21.77	-64.73	434.34	1,086.87	1,336.40	1,300.65	35.75	37.383			
5,400.00	4,663.31	4,347.00	4,115.71	23.31	21.77	-64.49	434.34	1,086.87	1,363.96	1,326.19	37.77	36.115			
5,500.00	4,660.98	4,347.00	4,115.71	25.34	21.77	-64.53	434.34	1,086.87	1,397.80	1,358.16	39.64	35.261			

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. 050H
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. 050H	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	Rule Assigned:										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	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	3.00	3.00	0.00	0.01	-25.87	131.00	-63.52	145.59				
100.00	100.00	102.99	102.99	0.13	0.18	-15.13	131.23	-63.05	145.44	145.13	0.31	468.599	
200.00	200.00	202.97	202.95	0.31	0.35	-14.57	131.90	-61.68	145.00	144.34	0.66	219.549	
300.00	300.00	302.90	302.86	0.49	0.52	-13.65	133.01	-59.42	144.30	143.29	1.01	142.806	
400.00	399.99	402.78	402.67	0.67	0.69	-12.35	134.55	-56.26	143.38	142.02	1.36	105.401	
500.00	499.98	501.23	501.05	1.00	0.99	-15.76	136.55	-53.13	142.59	140.60	1.99	71.588	
600.00	599.96	601.07	600.84	1.36	1.34	-14.26	138.96	-51.34	142.45	139.74	2.71	52.653	
700.00	699.95	703.31	703.08	1.72	1.69	-16.44	139.60	-51.17	141.74	138.33	3.41	41.573	
800.00	799.95	803.69	803.43	2.08	2.02	-16.73	138.53	-53.33	140.71	136.61	4.10	34.311	
900.00	899.95	903.92	903.62	2.44	2.36	-9.65	136.99	-55.87	139.62	134.82	4.80	29.089	
1,000.00	999.95	1,004.24	1,003.89	2.79	2.71	-10.69	135.38	-58.24	138.70	133.19	5.50	25.199	
1,100.00	1,099.95	1,104.43	1,104.04	3.15	3.06	-19.77	133.52	-60.37	137.45	131.24	6.21	22.126	
1,200.00	1,199.94	1,204.75	1,204.33	3.51	3.41	-31.45	131.80	-61.92	136.15	129.23	6.92	19.670	
1,300.00	1,299.94	1,307.98	1,307.53	3.87	3.77	-53.46	130.18	-60.47	133.78	126.14	7.64	17.519	
1,400.00	1,399.94	1,409.73	1,409.03	4.22	4.13	-57.88	128.71	-53.62	129.23	120.89	8.34	15.491	
1,500.00	1,499.94	1,510.06	1,508.59	4.58	4.49	-51.93	128.54	-41.35	123.99	114.93	9.06	13.691	
1,600.00	1,599.93	1,612.11	1,609.03	4.93	4.87	-21.69	128.20	-23.37	118.32	108.52	9.80	12.079	
1,700.00	1,699.93	1,711.06	1,705.49	5.29	5.27	0.23	126.64	-1.38	113.87	103.30	10.56	10.779	
1,743.25	1,743.18	1,752.70	1,745.73	5.45	5.45	15.76	125.88	9.26	113.26	102.36	10.90	10.389 CC, ES	
1,800.00	1,799.93	1,806.48	1,797.34	5.65	5.70	37.29	124.94	24.35	114.49	103.15	11.34	10.100 SF	
1,900.00	1,899.93	1,898.64	1,884.45	6.01	6.15	52.55	123.43	54.37	124.02	112.00	12.02	10.315	
2,000.00	1,999.90	1,989.44	1,968.97	6.36	6.65	124.36	121.66	87.47	144.23	131.63	12.60	11.443	
2,100.00	2,099.70	2,079.01	2,051.89	6.71	7.18	133.73	119.83	121.28	174.67	161.52	13.15	13.283	
2,200.00	2,199.30	2,170.15	2,136.44	7.06	7.74	140.78	117.83	155.28	211.19	197.44	13.76	15.353	
2,300.00	2,298.85	2,259.38	2,219.36	7.42	8.31	147.12	115.62	188.15	250.55	236.19	14.36	17.454	
2,400.00	2,398.39	2,349.10	2,302.75	7.78	8.89	153.20	113.11	221.15	291.67	276.69	14.98	19.467	
2,500.00	2,497.95	2,438.86	2,386.22	8.08	9.48	158.39	110.33	254.05	333.73	318.14	15.59	21.409	
2,600.00	2,597.52	2,534.34	2,475.30	8.21	10.12	162.65	107.29	288.28	375.77	359.63	16.14	23.283	
2,700.00	2,697.09	2,631.51	2,566.62	8.25	10.69	165.24	104.31	321.34	416.64	400.11	16.53	25.203	
2,800.00	2,796.69	2,726.02	2,655.87	8.30	11.07	169.39	101.82	352.32	456.54	439.81	16.72	27.302	
2,900.00	2,896.32	2,816.58	2,741.55	8.37	11.34	173.29	99.76	381.59	495.95	479.16	16.79	29.547	
3,000.00	2,995.99	2,904.69	2,824.69	8.46	11.63	175.40	98.34	410.72	536.00	519.13	16.87	31.779	
3,100.00	3,095.65	2,999.00	2,913.96	8.56	11.96	177.32	97.05	441.13	575.34	558.32	17.02	33.803	
3,200.00	3,195.34	3,075.49	2,986.12	8.68	12.25	178.95	96.42	466.46	615.55	598.46	17.09	36.015	
3,300.00	3,295.04	3,171.92	3,076.52	8.81	12.66	-178.09	96.47	500.04	657.27	639.94	17.33	37.937	
3,400.00	3,394.76	3,273.46	3,172.30	8.95	13.09	-174.18	96.83	533.72	697.16	679.55	17.61	39.578	
3,500.00	3,494.46	3,364.96	3,258.85	9.11	13.49	-172.08	97.61	563.40	736.60	718.73	17.87	41.219	
3,600.00	3,594.16	3,485.52	3,373.71	9.28	14.02	-164.99	99.29	599.94	773.94	755.62	18.31	42.264	
3,700.00	3,693.91	3,550.08	3,435.17	9.46	14.30	-155.86	100.49	619.68	810.77	792.31	18.46	43.911	
3,800.00	3,793.72	3,619.28	3,500.33	9.64	14.64	-149.45	101.80	642.92	849.40	830.75	18.65	45.537	
3,900.00	3,893.71	3,868.13	3,735.55	9.82	15.59	-121.10	145.66	701.98	876.65	856.93	19.72	44.451	
4,000.00	3,993.71	4,504.49	4,197.38	10.00	15.48	-153.32	503.79	537.90	872.89	851.42	21.47	40.655	
4,100.00	4,093.56	4,591.38	4,234.17	10.18	15.34	-93.99	559.94	482.85	853.45	830.65	22.81	37.418	
4,200.00	4,191.71	4,613.09	4,241.55	10.34	15.31	-92.89	574.25	468.30	843.50	819.89	23.61	35.727	
4,247.97	4,237.60	4,614.43	4,241.98	10.41	15.31	-90.29	575.15	467.39	842.44	818.59	23.85	35.323	
4,300.00	4,285.99	4,612.33	4,241.31	10.50	15.31	-88.18	573.75	468.81	844.07	820.05	24.02	35.140	
4,400.00	4,374.16	4,599.41	4,236.99	10.66	15.33	-85.04	565.22	477.49	853.21	829.05	24.16	35.317	
4,500.00	4,454.00	4,574.00	4,227.74	10.84	15.37	-83.28	548.56	494.30	872.48	848.35	24.13	36.163	
4,600.00	4,522.75	4,543.00	4,215.09	11.34	15.42	-80.09	528.42	514.18	902.92	878.75	24.17	37.357	
4,700.00	4,577.65	4,506.46	4,198.33	12.09	15.48	-74.03	505.05	536.71	940.27	915.89	24.38	38.567	
4,800.00	4,621.40	4,441.67	4,166.92	13.11	15.59	-68.12	463.76	575.52	979.99	955.39	24.61	39.829	
4,900.00	4,652.61	4,396.63	4,144.61	14.41	15.68	-62.73	434.99	602.04	1,018.12	992.85	25.27	40.287	

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. 050H
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. 050H	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 (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,666.66	4,336.12	4,110.44	15.93	15.80	-57.02	397.43	634.87	1,053.52	1,027.44	26.08	40.398			
5,100.00	4,669.58	4,262.49	4,063.28	17.61	15.90	-53.30	350.87	666.81	1,086.88	1,059.99	26.88	40.431			
5,200.00	4,666.89	4,215.37	4,030.09	19.43	15.94	-51.51	321.40	682.60	1,120.68	1,092.79	27.89	40.182			
5,300.00	4,664.19	4,166.68	3,993.35	21.34	15.96	-49.69	291.80	694.56	1,158.71	1,129.97	28.73	40.325			
5,400.00	4,663.31	4,133.00	3,967.03	23.31	15.96	-47.75	271.65	700.48	1,204.44	1,174.87	29.57	40.734			
5,500.00	4,660.98	4,110.94	3,949.29	25.34	15.94	-47.01	258.85	703.32	1,254.68	1,224.28	30.40	41.278			
5,600.00	4,659.81	4,091.17	3,933.09	27.41	15.93	-46.49	247.71	705.32	1,310.10	1,279.01	31.09	42.139			
5,700.00	4,661.14	4,070.00	3,915.40	29.50	15.91	-45.73	236.19	706.95	1,372.32	1,340.69	31.63	43.393			



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
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. 050H	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		Rule Assigned:		Distance		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	
0.00	0.00	3.04	3.04	0.00	0.01	-49.99	90.93	-108.33	141.44				
100.00	100.00	104.28	104.27	0.13	0.18	-39.60	90.41	-108.15	140.85	140.54	0.31	451.502	
200.00	200.00	205.48	205.47	0.31	0.35	-40.06	88.91	-107.64	139.15	138.48	0.66	209.680	
300.00	300.00	306.62	306.57	0.49	0.53	-40.86	86.43	-106.78	136.35	135.33	1.02	134.195	
400.00	399.99	407.67	407.55	0.67	0.70	-42.02	82.98	-105.58	132.49	131.12	1.37	96.711	
500.00	499.98	507.81	507.59	1.00	1.02	-48.35	78.79	-104.20	127.81	125.80	2.02	63.379	
600.00	599.96	607.42	607.11	1.36	1.39	-49.46	74.70	-102.76	123.09	120.36	2.74	45.002	
700.00	699.95	706.68	706.29	1.72	1.75	-53.43	70.72	-101.74	119.24	115.78	3.45	34.535	
800.00	799.95	806.07	805.61	2.08	2.11	-54.23	67.17	-100.90	116.15	111.98	4.17	27.846	
900.00	899.95	905.44	904.93	2.44	2.47	-47.36	64.08	-100.42	113.77	108.88	4.89	23.272	
1,000.00	999.95	1,004.73	1,004.19	2.79	2.83	-48.45	61.49	-100.15	111.99	106.38	5.61	19.979	
1,100.00	1,099.95	1,105.91	1,105.32	3.15	3.20	-57.81	58.71	-100.09	110.41	104.08	6.33	17.443	
1,200.00	1,199.94	1,209.65	1,208.87	3.51	3.58	-71.27	52.72	-98.64	106.47	99.40	7.07	15.064	
1,300.00	1,299.94	1,311.81	1,310.45	3.87	3.98	-98.32	42.45	-95.32	99.71	91.90	7.81	12.768	
1,400.00	1,399.94	1,412.38	1,410.01	4.22	4.38	-112.46	28.92	-90.99	92.19	83.62	8.57	10.759	
1,500.00	1,499.94	1,511.76	1,507.90	4.58	4.80	-122.00	12.57	-85.89	85.69	76.33	9.36	9.157	
1,600.00	1,599.93	1,609.93	1,603.84	4.93	5.24	-114.11	-7.30	-79.90	82.31	72.13	10.18	8.089	
1,611.67	1,611.60	1,621.18	1,614.77	4.98	5.30	-114.85	-9.85	-79.15	82.26	71.98	10.27	8.008 CC, ES	
1,700.00	1,699.93	1,705.45	1,696.18	5.29	5.70	-119.76	-30.82	-73.42	85.69	74.74	10.94	7.830 SF	
1,800.00	1,799.93	1,800.29	1,787.07	5.65	6.19	-111.55	-57.05	-66.62	98.08	86.48	11.60	8.455	
1,900.00	1,899.93	1,895.49	1,878.05	6.01	6.70	-122.50	-84.23	-59.82	117.24	105.02	12.22	9.597	
2,000.00	1,999.90	1,991.22	1,969.62	6.36	7.21	-72.41	-111.39	-53.22	139.37	126.54	12.84	10.858	
2,100.00	2,099.70	2,087.08	2,061.42	6.71	7.74	-80.95	-138.18	-46.66	162.82	149.37	13.46	12.100	
2,200.00	2,199.30	2,183.86	2,154.38	7.06	8.27	-88.81	-164.27	-39.99	187.62	173.50	14.12	13.291	
2,300.00	2,298.85	2,278.30	2,245.25	7.42	8.78	-93.67	-189.16	-33.66	213.84	199.08	14.76	14.484	
2,400.00	2,398.39	2,369.32	2,332.53	7.78	9.29	-96.11	-214.21	-27.39	242.36	226.98	15.38	15.756	
2,500.00	2,497.95	2,465.41	2,424.58	8.08	9.84	-97.65	-241.06	-21.03	271.93	255.89	16.04	16.952	
2,600.00	2,597.52	2,564.40	2,519.72	8.21	10.39	-98.87	-267.58	-14.39	300.72	284.14	16.59	18.132	
2,700.00	2,697.09	2,664.59	2,616.37	8.25	10.81	-100.61	-293.23	-8.15	328.60	311.70	16.90	19.447	
2,800.00	2,796.69	2,759.83	2,708.52	8.30	11.08	-99.83	-316.60	-2.46	355.48	338.45	17.03	20.878	
2,900.00	2,896.32	2,847.07	2,792.62	8.37	11.30	-98.66	-338.91	3.79	383.44	366.38	17.06	22.479	
3,000.00	2,995.99	2,932.34	2,874.18	8.46	11.55	-98.80	-362.59	11.37	413.84	396.73	17.11	24.187	
3,100.00	3,095.65	3,020.17	2,957.63	8.56	11.84	-98.99	-388.30	20.80	446.20	428.98	17.22	25.919	
3,200.00	3,195.34	3,120.55	3,053.03	8.68	12.19	-99.32	-417.38	32.18	478.56	461.10	17.46	27.413	
3,300.00	3,295.04	3,218.21	3,146.28	8.81	12.55	-98.00	-444.61	42.22	509.44	491.74	17.70	28.775	
3,400.00	3,394.76	3,309.69	3,233.32	8.95	12.90	-95.28	-471.32	51.06	541.11	523.17	17.94	30.170	
3,500.00	3,494.46	3,419.93	3,339.16	9.11	13.32	-94.21	-500.61	60.64	569.50	551.18	18.32	31.084	
3,600.00	3,594.16	3,505.08	3,420.60	9.28	13.66	-88.05	-524.38	67.99	599.07	580.50	18.57	32.266	
3,700.00	3,693.91	3,581.94	3,485.82	9.46	14.37	-73.44	-562.41	-14.61	610.67	592.02	18.65	32.749	
3,800.00	3,793.72	3,679.32	3,570.54	9.64	15.07	-62.48	-597.81	-229.11	635.70	616.84	18.86	33.962	
3,900.00	3,893.71	3,774.33	3,664.12	9.82	15.73	-52.64	-637.98	-275.85	662.56	647.38	19.18	35.297	
4,000.00	3,993.71	3,870.02	3,758.99	10.00	16.38	-43.30	-668.31	-378.54	690.41	674.06	20.35	36.780	
4,100.00	4,093.56	3,965.60	3,851.09	10.18	17.03	-34.03	-697.15	-389.21	718.99	705.42	22.57	38.422	
4,200.00	4,191.71	4,060.83	3,944.09	10.34	17.68	-24.72	-726.22	-383.90	748.19	736.06	24.13	40.222	
4,243.87	4,233.71	4,100.19	3,983.02	10.41	18.33	-15.15	-754.19	-378.66	778.24	767.83	24.41	41.971	
4,300.00	4,285.99	4,157.40	4,037.02	10.50	19.00	-6.78	-782.29	-369.90	808.55	799.20	24.35	43.764	
4,400.00	4,374.16	4,242.02	4,122.18	10.66	19.67	4.61	-810.15	-352.53	838.84	830.39	23.45	45.604	
4,500.00	4,464.00	4,332.16	4,212.60	10.84	20.34	14.92	-837.68	-332.23	869.03	861.82	22.21	47.495	
4,600.00	4,552.75	4,420.45	4,293.41	11.04	21.01	25.25	-865.46	-308.56	899.33	892.17	21.17	49.424	
4,700.00	4,641.65	4,510.96	4,381.17	11.29	21.68	35.55	-893.07	-283.73	929.40	922.54	20.56	51.394	
4,800.00	4,730.40	4,600.00	4,470.40	11.55	22.35	46.88	-916.75	-257.51	959.68	953.34	20.34	53.405	
4,900.00	4,819.21	4,689.26	4,559.24	11.81	23.02	58.17	-940.59	-226.42	989.64	984.47	20.17	55.450	

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. 050H
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. 050H	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		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	4,666.66	4,312.03	4,126.83	15.93	13.78	33.21	-445.23	-184.49	714.30	693.75	20.55	34.764	
5,100.00	4,669.58	4,274.93	4,105.81	17.61	13.85	30.54	-464.19	-160.52	763.53	742.33	21.20	36.013	
5,200.00	4,666.89	4,233.00	4,079.42	19.43	13.94	28.34	-483.82	-134.54	815.27	793.45	21.82	37.368	
5,300.00	4,664.19	4,202.00	4,058.18	21.34	14.00	28.09	-497.04	-116.24	873.08	850.59	22.49	38.820	
5,400.00	4,663.31	4,184.45	4,045.56	23.31	14.03	28.14	-504.04	-106.26	935.94	912.79	23.15	40.430	
5,500.00	4,660.98	4,170.00	4,034.87	25.34	14.06	26.76	-509.57	-98.26	1,002.31	978.58	23.73	42.230	
5,600.00	4,659.81	4,139.00	4,011.00	27.41	14.12	27.67	-520.64	-81.87	1,073.21	1,049.14	24.07	44.590	
5,700.00	4,661.14	4,119.98	3,995.78	29.50	14.16	26.87	-526.92	-72.36	1,148.42	1,124.02	24.40	47.068	
5,800.00	4,661.23	4,107.00	3,985.19	31.63	14.18	25.68	-531.01	-66.07	1,225.76	1,201.03	24.73	49.571	
5,900.00	4,658.93	4,076.00	3,959.21	33.78	14.23	22.66	-540.08	-51.81	1,304.39	1,279.50	24.89	52.401	
6,000.00	4,657.08	4,076.00	3,959.21	35.94	14.23	26.71	-540.08	-51.81	1,385.03	1,359.81	25.22	54.918	

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. 050H
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. 050H	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	2.98	2.98	0.00	0.01	-41.78	104.41	-93.30	140.02				
100.00	100.00	102.40	102.40	0.13	0.17	-31.17	104.72	-93.28	140.11	139.80	0.31	456.668	
200.00	200.00	201.81	201.80	0.31	0.34	-31.01	105.63	-93.21	140.34	139.69	0.65	214.859	
300.00	300.00	301.22	301.20	0.49	0.51	-30.73	107.14	-93.10	140.73	139.73	1.00	140.802	
400.00	399.99	400.61	400.57	0.67	0.67	-30.35	109.24	-92.95	141.28	139.93	1.35	104.966	
500.00	499.98	500.18	500.10	1.00	0.97	-34.59	111.96	-92.68	141.89	139.92	1.98	71.821	
600.00	599.96	600.43	600.31	1.36	1.34	-33.53	114.78	-92.42	142.38	139.69	2.69	52.836	
700.00	699.95	702.08	701.94	1.72	1.70	-35.37	116.99	-92.14	142.82	139.40	3.42	41.807	
800.00	799.95	804.88	804.73	2.08	2.06	-34.33	117.28	-90.93	141.58	137.45	4.13	34.276	
900.00	899.95	904.47	904.31	2.44	2.39	-25.86	116.66	-89.58	139.68	134.86	4.83	28.928	
1,000.00	999.95	1,004.04	1,003.88	2.79	2.74	-25.71	116.29	-89.05	138.68	133.15	5.53	25.084	
1,100.00	1,099.95	1,103.82	1,103.65	3.15	3.08	-33.56	115.99	-88.33	137.58	131.35	6.23	22.067	
1,200.00	1,199.94	1,203.63	1,203.46	3.51	3.43	-44.31	115.77	-87.96	136.81	129.87	6.94	19.712	
1,300.00	1,299.94	1,303.50	1,303.33	3.87	3.78	-66.64	115.43	-87.84	136.21	128.56	7.64	17.823	
1,400.00	1,399.94	1,408.02	1,407.83	4.22	4.14	-73.29	114.39	-86.28	134.29	125.93	8.36	16.068	
1,500.00	1,499.94	1,516.84	1,516.30	4.58	4.53	-71.17	110.42	-78.99	126.95	117.88	9.06	14.005	
1,600.00	1,599.93	1,622.97	1,621.27	4.93	4.92	-46.41	102.41	-65.63	112.92	103.18	9.74	11.593	
1,700.00	1,699.93	1,724.35	1,720.76	5.29	5.32	-31.02	91.91	-49.28	94.89	84.47	10.42	9.104	
1,800.00	1,799.93	1,823.85	1,817.79	5.65	5.72	0.48	80.29	-30.61	75.18	64.05	11.13	6.756	
1,900.00	1,899.93	1,922.32	1,913.15	6.01	6.16	15.88	67.06	-9.95	55.24	43.34	11.90	4.640	
2,000.00	1,999.90	2,018.71	2,006.00	6.36	6.60	104.80	52.16	11.26	40.61	27.70	12.91	3.146	
2,026.67	2,026.54	2,044.07	2,030.42	6.45	6.72	115.45	48.20	16.81	39.71	26.54	13.17	3.016 CC, ES, SF	
2,100.00	2,099.70	2,113.54	2,097.41	6.71	7.06	143.91	37.55	31.81	46.73	33.12	13.61	3.432	
2,200.00	2,199.30	2,207.41	2,188.15	7.06	7.51	165.70	23.68	51.44	70.78	56.71	14.07	5.030	
2,300.00	2,298.85	2,299.83	2,277.08	7.42	7.98	177.15	9.47	72.21	102.39	87.79	14.61	7.010	
2,400.00	2,398.39	2,393.79	2,367.34	7.78	8.47	-175.14	-5.52	93.55	136.31	121.05	15.25	8.937	
2,500.00	2,497.95	2,490.07	2,460.11	8.08	8.97	-169.73	-20.59	114.42	169.83	153.90	15.92	10.665	
2,600.00	2,597.52	2,587.96	2,554.94	8.21	9.47	-165.98	-34.94	134.08	201.82	185.35	16.47	12.256	
2,700.00	2,697.09	2,685.59	2,649.87	8.25	9.80	-164.08	-48.32	152.51	232.52	215.81	16.72	13.910	
2,800.00	2,796.69	2,775.92	2,737.65	8.30	9.98	-160.46	-61.02	169.63	263.20	246.46	16.74	15.719	
2,900.00	2,896.32	2,862.29	2,820.97	8.37	10.17	-156.75	-74.99	187.57	295.84	279.09	16.75	17.664	
3,000.00	2,995.99	2,958.79	2,913.62	8.46	10.41	-154.52	-91.67	208.78	329.65	312.76	16.89	19.518	
3,100.00	3,095.65	3,049.70	3,001.17	8.56	10.66	-152.65	-106.72	228.11	362.50	345.49	17.01	21.307	
3,200.00	3,195.34	3,139.84	3,087.39	8.68	10.93	-150.82	-123.22	248.54	397.05	379.89	17.16	23.134	
3,300.00	3,295.04	3,234.69	3,178.19	8.81	11.25	-147.73	-140.49	269.84	431.10	413.72	17.39	24.797	
3,400.00	3,394.76	3,347.02	3,286.04	8.95	11.63	-143.62	-160.28	294.16	464.04	446.27	17.76	26.124	
3,500.00	3,494.46	3,437.91	3,374.20	9.11	11.94	-141.52	-173.90	311.53	493.46	475.45	18.01	27.398	
3,600.00	3,594.16	3,518.82	3,452.08	9.28	12.24	-134.54	-186.87	329.25	525.58	507.36	18.21	28.854	
3,700.00	3,693.91	3,600.88	3,530.56	9.46	12.57	-125.44	-200.57	348.94	558.53	540.08	18.45	30.271	
3,800.00	3,793.72	3,719.50	3,643.64	9.64	13.07	-119.17	-220.71	378.48	591.78	572.81	18.97	31.197	
3,900.00	3,893.71	3,918.15	3,839.03	9.82	13.68	-88.13	-238.31	408.05	608.87	589.08	19.78	30.777	
4,000.00	3,993.71	4,061.00	3,981.64	10.00	13.95	-93.70	-241.32	415.11	613.93	593.72	20.21	30.376	
4,100.00	4,093.56	4,113.80	4,232.49	10.18	14.10	-30.00	-223.59	402.66	607.25	587.05	20.20	30.055	
4,200.00	4,191.71	5,046.69	4,666.33	10.34	15.21	-117.21	131.24	35.85	521.99	506.13	15.86	32.922	
4,300.00	4,285.99	5,018.38	4,664.84	10.50	14.95	-120.64	112.02	56.57	437.90	421.00	16.90	25.914	
4,400.00	4,374.16	4,970.62	4,662.26	10.66	14.53	-120.39	79.46	91.43	362.25	344.02	18.22	19.878	
4,500.00	4,454.00	4,860.74	4,640.68	10.84	13.91	-108.16	6.00	169.69	295.26	274.94	20.32	14.531	
4,600.00	4,522.75	4,800.75	4,616.27	11.34	13.74	-101.86	-31.61	209.48	246.07	222.74	23.34	10.544	
4,700.00	4,577.65	4,751.67	4,591.99	12.09	13.67	-92.88	-61.02	240.36	228.34	202.70	25.64	8.904	
4,703.53	4,579.33	4,749.96	4,591.09	12.13	13.67	-92.49	-62.03	241.42	228.32	202.63	25.69	8.886	
4,800.00	4,621.40	4,707.80	4,567.60	13.11	13.66	-82.12	-85.95	266.94	243.21	217.27	25.94	9.376	
4,900.00	4,652.61	4,668.00	4,542.03	14.41	13.68	-70.36	-106.45	289.50	283.06	258.02	25.04	11.306	

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. 050H
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. 050H	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		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	4,666.66	4,636.00	4,519.32	15.93	13.72	-59.08	-121.28	306.46	336.88	312.52	24.36	13.828		
5,100.00	4,669.58	4,594.24	4,487.01	17.61	13.77	-51.30	-138.51	326.50	399.68	375.80	23.88	16.740		
5,200.00	4,666.89	4,555.46	4,454.82	19.43	13.83	-46.96	-153.42	342.11	467.85	444.29	23.56	19.857		
5,300.00	4,664.19	4,523.76	4,427.37	21.34	13.87	-43.84	-165.14	352.79	541.67	518.35	23.32	23.229		
5,400.00	4,663.31	4,496.23	4,402.87	23.31	13.91	-39.62	-174.74	360.89	622.30	599.13	23.17	26.854		
5,500.00	4,660.98	4,468.75	4,378.06	25.34	13.94	-37.80	-183.85	368.39	705.61	682.54	23.07	30.581		
5,600.00	4,659.81	4,447.00	4,358.19	27.41	13.97	-36.12	-190.64	374.06	791.68	768.66	23.02	34.384		
5,700.00	4,661.14	4,424.09	4,337.07	29.50	14.00	-34.67	-197.40	379.80	881.00	858.02	22.99	38.329		
5,800.00	4,661.23	4,405.95	4,320.21	31.63	14.02	-31.66	-202.49	384.14	971.13	948.15	22.98	42.255		
5,900.00	4,658.93	4,384.00	4,299.61	33.78	14.05	-31.03	-208.23	389.12	1,061.49	1,038.52	22.97	46.215		
6,000.00	4,657.08	4,374.90	4,291.02	35.94	14.05	-27.15	-210.47	391.09	1,153.27	1,130.24	23.03	50.081		
6,100.00	4,655.96	4,353.00	4,270.20	38.10	14.08	-24.79	-215.57	395.58	1,246.64	1,223.60	23.04	54.100		
6,200.00	4,653.59	4,353.00	4,270.20	40.27	14.08	-25.71	-215.57	395.58	1,340.15	1,317.02	23.13	57.940		

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. 050H
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. 050H	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
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	3.00	3.00	0.00	0.01	-57.70	77.81	-123.08	145.61				
100.00	100.00	103.08	103.08	0.13	0.17	-47.03	78.14	-122.84	145.48	145.17	0.31	470.946	
200.00	200.00	203.15	203.14	0.31	0.34	-46.71	79.09	-122.14	145.08	144.42	0.66	220.624	
300.00	300.00	303.20	303.18	0.49	0.51	-46.17	80.65	-120.99	144.42	143.41	1.01	143.526	
400.00	399.99	403.23	403.17	0.67	0.68	-45.41	82.82	-119.39	143.53	142.17	1.35	105.934	
500.00	499.98	503.33	503.21	1.00	0.99	-49.24	85.50	-117.37	142.35	140.36	1.99	71.429	
600.00	599.96	603.07	602.93	1.36	1.35	-48.26	87.20	-116.10	141.10	138.40	2.71	52.077	
700.00	699.95	703.19	703.04	1.72	1.71	-50.54	87.86	-115.69	140.31	136.88	3.42	40.972	
800.00	799.95	802.94	802.79	2.08	2.05	-49.89	88.01	-115.35	139.58	135.45	4.13	33.790	
826.63	826.58	829.08	828.93	2.17	2.14	-48.36	87.99	-115.46	139.53	135.21	4.32	32.335	
900.00	899.95	902.24	902.08	2.44	2.39	-42.07	87.69	-116.28	139.72	134.90	4.82	28.973	
1,000.00	999.95	1,003.36	1,003.17	2.79	2.72	-43.04	85.83	-117.89	139.70	134.18	5.52	25.323	
1,100.00	1,099.95	1,105.62	1,105.17	3.15	3.07	-53.95	79.50	-120.85	138.57	132.36	6.22	22.280	
1,200.00	1,199.94	1,205.69	1,204.45	3.51	3.42	-69.97	67.82	-125.24	136.78	129.85	6.93	19.746	
1,300.00	1,299.94	1,306.01	1,303.66	3.87	3.78	-98.55	53.67	-130.06	135.94	128.29	7.65	17.768	
1,371.04	1,370.98	1,377.77	1,374.31	4.12	4.06	-109.17	41.54	-133.22	135.78	127.60	8.18	16.598 CC	
1,400.00	1,399.94	1,406.89	1,402.89	4.22	4.18	-113.06	36.05	-134.35	135.84	127.44	8.40	16.178 ES	
1,500.00	1,499.94	1,503.76	1,497.41	4.58	4.58	-121.06	15.28	-138.27	138.08	128.93	9.14	15.100	
1,600.00	1,599.93	1,598.50	1,588.77	4.93	5.01	-108.89	-9.34	-142.85	145.20	135.32	9.88	14.697 SF	
1,700.00	1,699.93	1,689.27	1,674.87	5.29	5.46	-107.81	-37.56	-148.07	158.92	148.36	10.55	15.060	
1,800.00	1,799.93	1,783.76	1,763.67	5.65	5.97	-93.19	-69.34	-153.98	179.02	167.78	11.24	15.933	
1,900.00	1,899.93	1,875.70	1,850.01	6.01	6.49	-99.34	-100.38	-159.82	203.12	191.25	11.87	17.107	
2,000.00	1,999.90	1,970.05	1,938.46	6.36	7.04	-46.40	-132.60	-166.02	229.00	216.47	12.53	18.277	
2,100.00	2,099.70	2,065.15	2,027.80	6.71	7.60	-52.67	-164.60	-172.25	254.02	240.84	13.18	19.270	
2,200.00	2,199.30	2,158.96	2,116.06	7.06	8.17	-58.70	-195.78	-178.49	279.47	265.65	13.82	20.218	
2,300.00	2,298.85	2,248.78	2,200.33	7.42	8.72	-62.54	-226.28	-184.48	307.09	292.67	14.42	21.295	
2,400.00	2,398.39	2,341.04	2,286.55	7.78	9.31	-64.69	-258.54	-190.63	336.85	321.78	15.07	22.350	
2,500.00	2,497.95	2,437.10	2,376.38	8.08	9.92	-66.18	-291.96	-196.97	367.36	351.64	15.73	23.358	
2,600.00	2,597.52	2,539.58	2,472.75	8.21	10.57	-67.48	-326.19	-203.45	397.13	380.82	16.31	24.350	
2,700.00	2,697.09	2,632.15	2,560.10	8.25	11.15	-69.19	-356.38	-208.85	426.45	409.76	16.69	25.557	
2,800.00	2,796.69	2,721.44	2,644.20	8.30	11.55	-68.57	-385.99	-213.75	456.61	439.77	16.84	27.111	
2,900.00	2,896.32	2,797.00	2,714.58	8.37	11.80	-67.38	-413.07	-218.34	489.68	472.91	16.77	29.202	
3,000.00	2,995.99	2,885.13	2,795.88	8.46	12.15	-67.63	-446.65	-223.73	525.16	508.32	16.84	31.185	
3,100.00	3,095.65	2,973.79	2,877.41	8.56	12.53	-67.79	-481.14	-228.74	561.43	544.47	16.96	33.109	
3,200.00	3,195.34	3,063.00	2,959.21	8.68	12.94	-67.90	-516.36	-233.81	598.50	581.39	17.11	34.973	
3,300.00	3,295.04	3,155.37	3,043.75	8.81	13.39	-66.69	-553.34	-237.89	635.91	618.58	17.33	36.695	
3,400.00	3,394.76	3,252.39	3,132.68	8.95	13.88	-64.36	-591.98	-241.33	672.94	655.32	17.61	38.208	
3,500.00	3,494.46	3,351.19	3,223.57	9.11	14.39	-63.48	-630.58	-244.39	708.81	690.88	17.93	39.521	
3,600.00	3,594.16	3,458.54	3,322.84	9.28	14.95	-57.84	-671.33	-247.53	743.50	725.16	18.34	40.538	
3,700.00	3,693.91	3,569.76	3,426.62	9.46	15.52	-49.82	-711.20	-250.58	775.38	756.60	18.79	41.277	
3,800.00	3,793.72	3,650.74	3,502.27	9.64	15.95	-44.17	-739.95	-253.21	807.25	788.19	19.06	42.361	
3,900.00	3,893.71	3,750.65	3,595.34	9.82	16.49	-13.61	-776.04	-257.47	842.65	823.19	19.46	43.292	
4,000.00	3,993.71	3,870.99	3,708.32	10.00	17.13	-19.21	-817.26	-261.64	876.54	856.54	20.00	43.820	
4,100.00	4,093.56	3,966.63	3,798.61	10.18	17.63	45.36	-848.62	-264.80	906.50	886.12	20.39	44.466	
4,200.00	4,191.71	4,060.57	3,887.21	10.34	18.13	48.17	-879.67	-268.39	927.62	906.88	20.74	44.726	
4,300.00	4,285.99	4,183.74	4,004.06	10.50	18.76	53.91	-917.89	-274.61	938.90	917.63	21.28	44.130	
4,400.00	4,374.16	4,599.53	4,381.04	10.66	19.67	74.20	-922.28	-428.94	923.21	900.74	22.47	41.080	
4,500.00	4,454.00	4,638.60	4,411.33	10.84	19.67	76.21	-912.41	-451.54	907.60	884.46	23.14	39.215	
4,600.00	4,522.75	4,646.44	4,417.19	11.34	19.67	75.95	-910.25	-456.28	894.83	870.82	24.02	37.260	
4,700.00	4,577.65	4,636.34	4,409.62	12.09	19.67	76.09	-913.02	-450.18	887.02	861.87	25.14	35.282	
4,742.80	4,597.14	4,629.11	4,404.13	12.52	19.67	75.78	-914.94	-445.89	886.18	860.45	25.74	34.434	
4,800.00	4,621.40	4,619.37	4,396.64	13.11	19.67	75.13	-917.45	-440.21	887.80	861.23	26.56	33.421	

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. 050H
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. 050H	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		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		
4,900.00	4,652.61	4,597.60	4,379.50	14.41	19.67	73.46	-922.73	-427.87	897.71	869.45	28.26	31.767		
5,000.00	4,666.66	4,568.56	4,355.92	15.93	19.66	70.16	-929.14	-412.17	913.28	883.16	30.12	30.320		
5,100.00	4,669.58	4,533.99	4,326.91	17.61	19.65	67.42	-935.66	-394.53	933.51	901.52	31.99	29.181		
5,200.00	4,666.89	4,499.55	4,297.23	19.43	19.63	65.14	-940.88	-377.89	960.92	927.14	33.78	28.447		
5,300.00	4,664.19	4,472.27	4,273.21	21.34	19.61	64.14	-944.16	-365.38	997.39	961.97	35.43	28.155		
5,400.00	4,663.31	4,456.00	4,258.66	23.31	19.59	63.33	-945.72	-358.27	1,039.95	1,003.04	36.91	28.175		
5,500.00	4,660.98	4,425.00	4,230.53	25.34	19.55	61.15	-947.82	-345.42	1,088.56	1,050.58	37.98	28.662		
5,600.00	4,659.81	4,410.82	4,217.53	27.41	19.53	61.87	-948.41	-339.80	1,144.08	1,105.10	38.98	29.351		
5,700.00	4,661.14	4,393.00	4,201.13	29.50	19.50	60.90	-948.87	-332.84	1,204.62	1,164.94	39.68	30.358		
5,800.00	4,661.23	4,379.34	4,188.50	31.63	19.48	59.09	-948.96	-327.64	1,269.67	1,229.41	40.26	31.539		
5,900.00	4,658.93	4,362.00	4,172.37	33.78	19.44	56.53	-948.65	-321.27	1,338.48	1,297.82	40.65	32.924		
6,000.00	4,657.08	4,362.00	4,172.37	35.94	19.44	59.34	-948.65	-321.27	1,410.26	1,369.13	41.12	34.296		

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



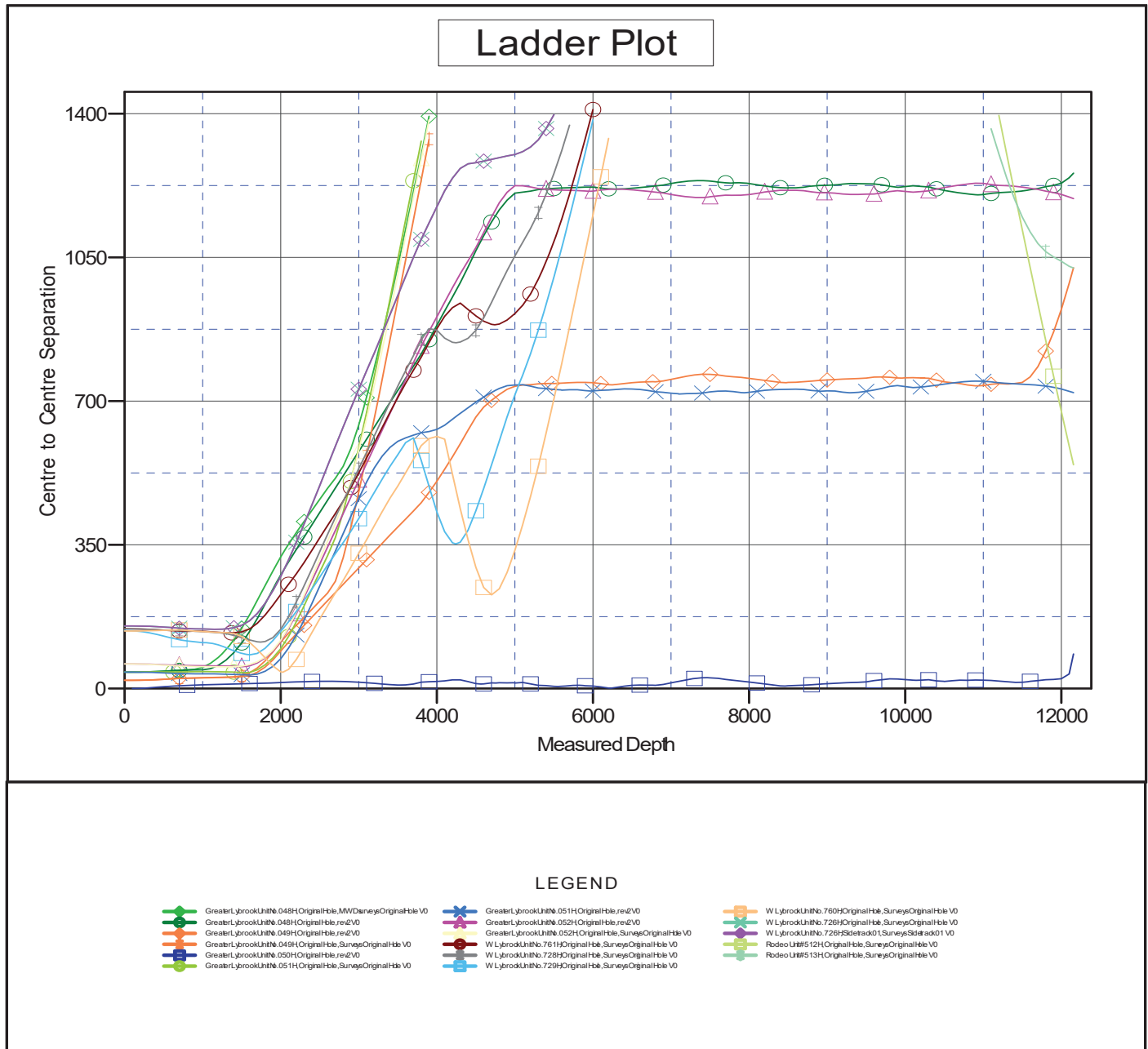
Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
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. 050H	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 100)
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.833333333

Coordinates are relative to: Greater Lybrook Unit No. 050H
 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

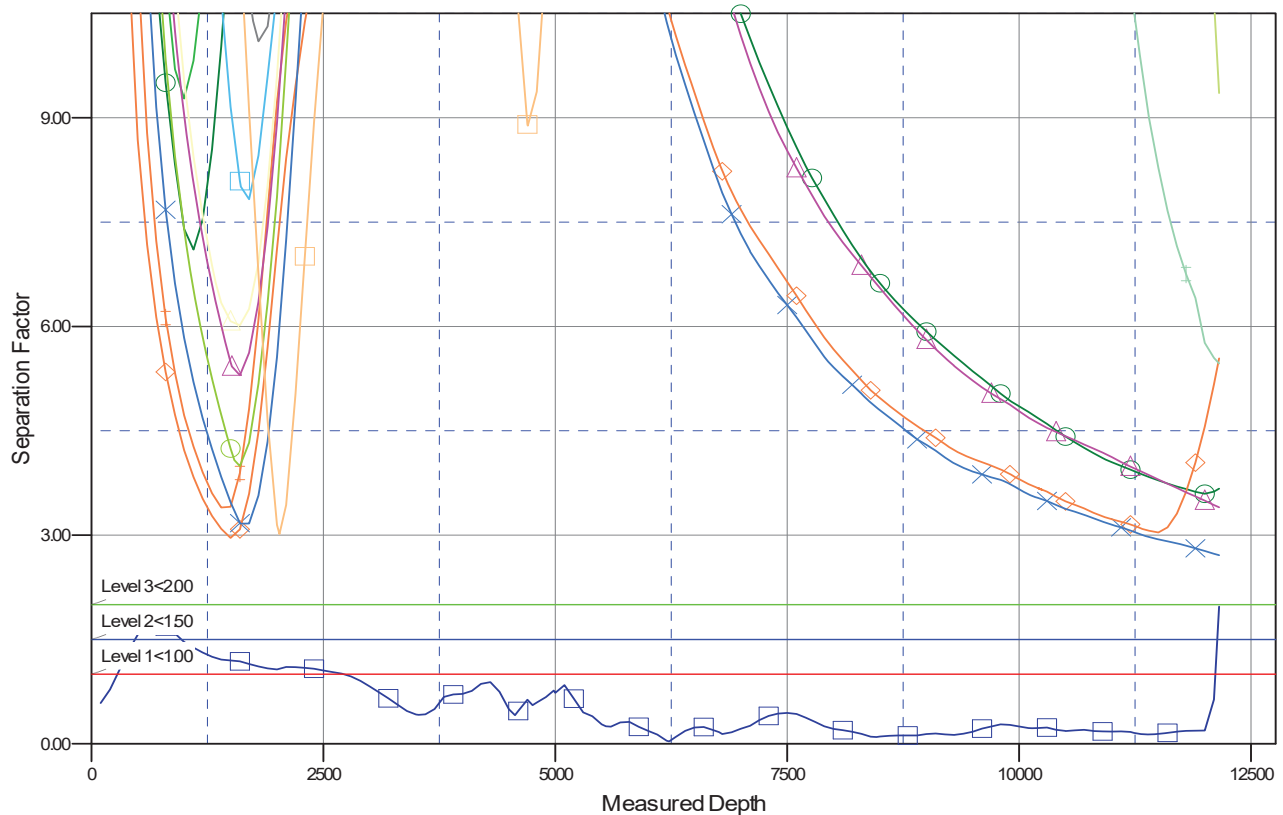


Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	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 100)
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.833333333

Coordinates are relative to: Greater Lybrook Unit No. 050H
 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.051HOriginalHole,rev2V0	W LybrookUnitNo.760HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.048HOriginalHole,rev2V0	GreaterLybrookUnitNo.052HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.726HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.049HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.761HOriginalHole,SurveysOriginalHole V0	Rodeo Unit#512HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.049HOriginalHole,rev2V0	W LybrookUnitNo.728HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.729HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.050HOriginalHole,rev2V0		
GreaterLybrookUnitNo.051HOriginalHole,SurveysOriginalHole V0		

WELL NAME: GREATER LYBROOK UNIT 050H

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

API Number: 30-045-38278

AFE Number: DV03080

ER Well Number: NM08275.01

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 417 ft FSL 685 ft FWL
BH Location: 25-23N-09W Sec-Twn- Rng 232 ft FSL 711 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)	370 ft
Int TD (MD)	2,616 ft
KOP (MD)	4,085 ft
KOP (TVD)	4,079 ft
Target (TVD)	4,554 ft
Curve BUR	10 °/100 ft
POE (MD)	4,823 ft
TD (MD)	12,135 ft
Lat Len (ft)	7,255 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	370	13.375	54.5	J-55	BTC	0	370
Intermediate	12.250	2,616	9.625	36.0	J-55	LTC	0	2,616
Production	8.500	12,135	5.50	17.0	P-110	BTC	0	12,135

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	352	
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%	2,117	137	
Prod. (Lead)	ASTM type I/I	12.4	2.370	13.4	50%	0	441	
Prod. (Tail)	TegraGuard S	13.3	1.570	7.7	10%	3933	1373	

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

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	332	332
Kirtland	437	437
Fruitland	642	642
Pictured Cliffs	1,057	1,057
Lewis	1,177	1,177
Chacra	1,412	1,412
Cliff House	2,443	2,443
Menefee	2,467	2,468
Point Lookout	3,442	3,447
Mancos	3,597	3,603
Gallup (MNCS_A)	3,927	3,933
MNCS_B	4,022	4,028
MNCS_C	4,112	4,118
MNCS_Cms	4,154	4,161
MNCS_D	4,287	4,300
MNCS_E	4,427	4,465
MNCS_F	4,482	4,541
MNCS_G	4,553	4,662
MNCS_H	4,603	4,764
MNCS_I	4,644	4,886
FTP TARGET	4,554	4,823
PROJECTED LTP	4,629	12,078

This document will be submitted with the completion package after the well has been completed.

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 223271

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 223271
	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.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 223271

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 223271
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 10/12/2023.	10/12/2023