

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 30-045-38284	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number #049H

II. ¹⁰ Surface Location

Ul or lot no. M	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 404’	North/South Line SOUTH	Feet from the 670’	East/West line WEST	County SAN JUAN
--------------------	---------------	-----------------	-------------	---------	-----------------------	---------------------------	-----------------------	------------------------	--------------------

¹¹ Bottom Hole Location

UL or lot no. P	Section 26	Township 23N	Range 9W	Lot Idn	Feet from the 192’	North/South line South	Feet from the 95’	East/West line EAST	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, LLC165	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 11165’ MD 4215’ TVD	²⁴ PBTD 11,104.9’ MD 4219’ TVD	²⁵ Perforations ~ 4560’ - 11105’ MD ~ 4209’ -4219’ 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		364.71’ MD		352 sx - surface
12-1/4”		9-5/8”,36#, J-55		2,647.80’ MD		656 sx- surface
8-1/2”		5-1/2”,17#, P-110		11,165’ MD		2,055 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 Approved by: <i>PATRICIA MARTINEZ</i>		
Printed name: Lena Wilson			Title: <i>PETROLEUM SPECIALIST</i>		
Title: Regulatory Agent			Approval Date: <i>6/7/2023</i>		
E-mail Address: lwilson@enduringresources.com			<i>RT EXPIRES 10/12/2023</i>		
Date: 5/25/2023		Phone: 253-737-3540			



ENDURING RESOURCES IV LLC

June 1, 2023

Re: GREATER LYBROOK UNIT 049H-30-045-38284

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", on a light blue background.

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

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

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

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

Submit one copy to
Appropriate District Office

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

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38284	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 049H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6747'

¹⁰ Surface Location

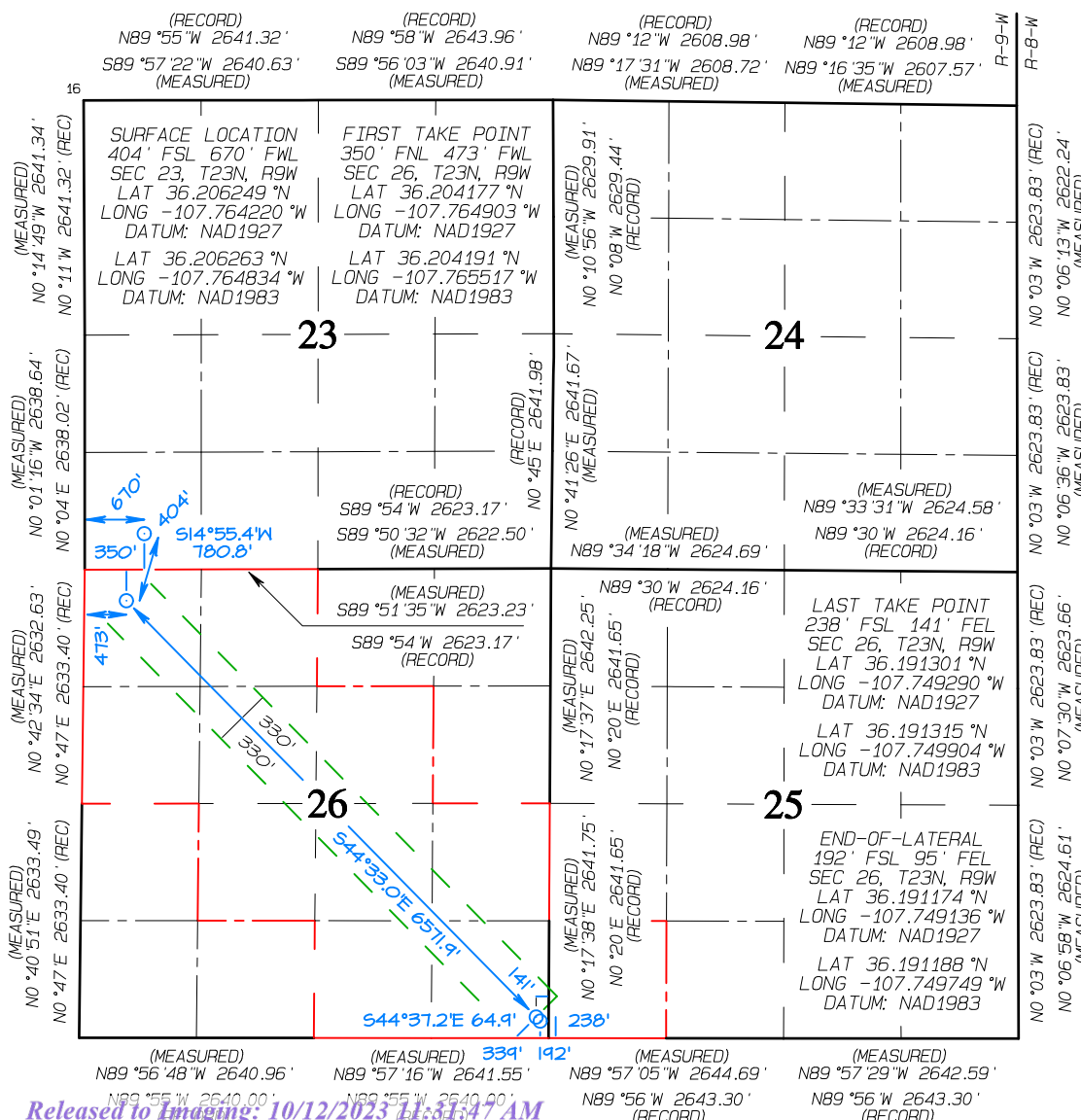
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	23N	9W		404	SOUTH	670	WEST	SAN JUAN

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
P	26	23N	9W		192	SOUTH	95	EAST	SAN JUAN

¹² Dedicated Acres 440.0	SW/4 SW/4 - Section 25 NW/4, SW/4 NE/4 NE/4 SW/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

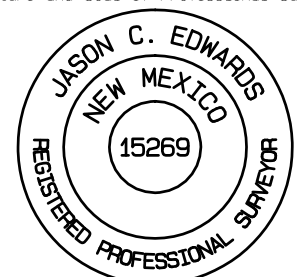
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this 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

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

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

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

Submit one copy to
Appropriate District Office

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

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38284		² Pool Code 98157	³ Pool Name LYBROOK MANCOS W	
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT			⁶ Well Number 049H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6747 '

¹⁰ Surface Location

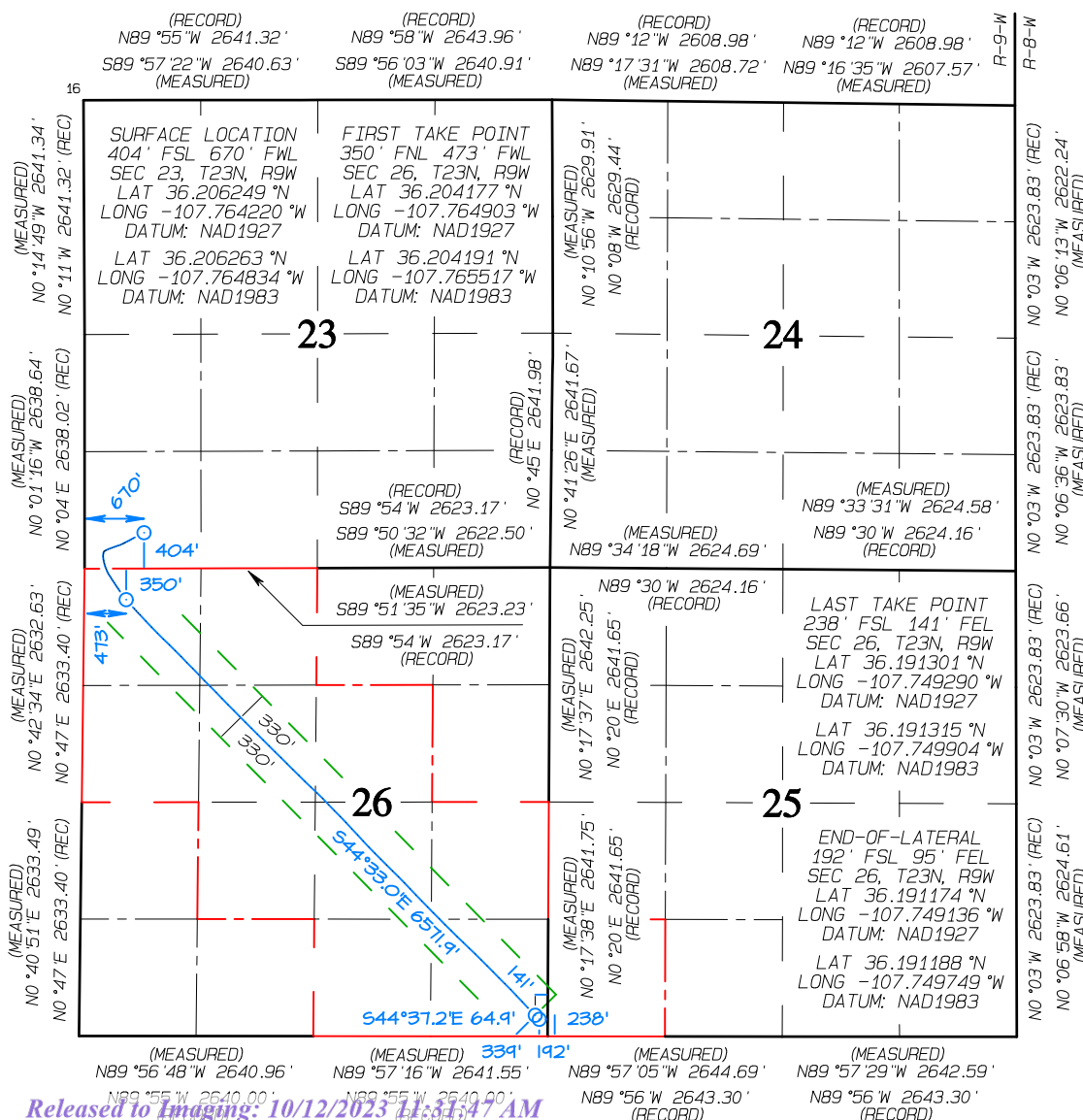
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	23N	9W		404	SOUTH	670	WEST	SAN JUAN

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
P	26	23N	9W		192	SOUTH	95	EAST	SAN JUAN

¹² Dedicated Acres SW/4 SW/4 - Section 25 440.0 NW/4, SW/4 NE/4 NE/4 SW/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			

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.


5/31/23

Signature Date

Heather Huntington

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 049H
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. 049H	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 1,317.50ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Program	Date	5/13/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
416.00	2,595.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard
2,694.00	11,086.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
11,175.00	11,175.00	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	550.48	550.46	19.71	17.35	8.336	CC
Greater Lybrook Unit No. 048H - Original Hole - MWD su	800.00	799.87	20.65	16.50	4.979	ES
Greater Lybrook Unit No. 048H - Original Hole - MWD su	900.00	899.56	21.39	16.54	4.405	SF
Greater Lybrook Unit No. 048H - Original Hole - rev2	1,000.57	1,000.53	19.23	13.09	3.130	CC, ES
Greater Lybrook Unit No. 048H - Original Hole - rev2	11,175.00	11,736.37	729.01	474.90	2.869	SF
Greater Lybrook Unit No. 049H - Original Hole - rev4	2,900.00	2,899.95	1.18	-0.07	0.947	Level 1<1.00, CC
Greater Lybrook Unit No. 049H - Original Hole - rev4	6,800.00	6,863.47	4.43	-9.03	0.329	Level 1<1.00, ES
Greater Lybrook Unit No. 049H - Original Hole - rev4	6,886.78	6,950.23	3.84	-8.95	0.300	Level 1<1.00, SF
Greater Lybrook Unit No. 050H - Original Hole - Surveys	0.00	0.00	19.95			
Greater Lybrook Unit No. 050H - Original Hole - Surveys	200.00	199.93	20.37	19.72	31.305	ES
Greater Lybrook Unit No. 050H - Original Hole - Surveys	11,000.00	11,357.89	725.95	482.89	2.987	SF
Greater Lybrook Unit No. 051H - Original Hole - Surveys	0.00	0.00	60.12			
Greater Lybrook Unit No. 051H - Original Hole - Surveys	100.00	99.87	60.25	59.95	198.916	ES
Greater Lybrook Unit No. 051H - Original Hole - Surveys	11,175.00	11,246.07	1,231.73	910.87	3.839	SF
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,000.00	1,000.16	79.39	73.82	14.254	CC
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,300.00	1,300.14	79.61	71.97	10.421	ES
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,500.00	1,497.31	84.68	75.66	9.385	SF
Rodeo Unit 511 pad (511, 512 & 513)						
Rodeo Unit #512H - Original Hole - Surveys Original Hole	11,175.00	4,143.00	1,212.17	1,102.06	11.008	CC, ES, SF
Rodeo Unit #513H - Original Hole - Surveys Original Hole	11,175.00	4,375.00	538.19	458.26	6.733	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. 049H
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. 049H	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	870.60	873.45	160.81	156.23	35.124	CC
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,100.00	1,102.45	161.55	155.36	26.079	ES
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,500.00	1,488.29	180.33	171.26	19.892	SF
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	870.60	873.45	160.81	156.23	35.124	CC
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,100.00	1,102.45	161.55	155.36	26.079	ES
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,500.00	1,488.29	180.33	171.26	19.892	SF
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,508.71	1,515.61	141.84	132.74	15.588	CC, ES
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,700.00	1,701.74	151.99	141.49	14.463	SF
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,770.95	1,778.58	31.68	20.38	2.802	CC, ES, SF
W Lybrook Unit No. 760H - Original Hole - Surveys Origin	1,768.09	1,785.60	112.65	101.61	10.206	CC, ES
W Lybrook Unit No. 760H - Original Hole - Surveys Origin	1,800.00	1,815.91	113.32	102.02	10.029	SF
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,812.68	1,810.82	113.35	101.92	9.917	CC, ES
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	4,700.00	4,351.48	234.28	199.59	6.753	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												Offset Well Error:	0.00 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
				(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	0.00	0.00	0.00	0.00	-132.44	-13.48	-14.74	19.97				
100.00	100.00	99.99	99.99	0.13	0.17	-69.59	-13.43	-14.80	19.96	19.66	0.30	65.911	
200.00	200.00	199.99	199.99	0.31	0.34	-69.49	-13.29	-14.98	19.93	19.28	0.65	30.636	
300.00	300.00	299.98	299.98	0.49	0.51	-69.32	-13.06	-15.28	19.88	18.88	1.00	19.912	
400.00	400.00	399.98	399.98	0.67	0.67	-69.09	-12.74	-15.69	19.80	18.46	1.35	14.712	
500.00	500.00	500.01	500.00	1.00	1.00	-89.21	-12.22	-16.21	19.73	17.73	2.00	9.850	
550.48	550.47	550.46	550.45	1.18	1.18	-76.28	-11.89	-16.52	19.71	17.35	2.36	8.336	CC
600.00	600.00	599.94	599.93	1.36	1.36	-61.83	-11.61	-16.90	19.74	17.03	2.72	7.262	
700.00	699.99	699.89	699.87	1.72	1.72	-79.08	-11.30	-17.78	20.05	16.61	3.43	5.838	
800.00	799.99	799.87	799.85	2.08	2.07	-81.11	-11.26	-18.66	20.65	16.50	4.15	4.979	ES
900.00	899.99	899.56	899.54	2.43	2.43	-45.26	-11.53	-19.60	21.39	16.54	4.86	4.405	SF
1,000.00	999.99	998.29	998.15	2.78	2.78	-5.59	-13.25	-23.85	25.70	20.15	5.55	4.629	
1,100.00	1,099.99	1,096.24	1,095.58	3.13	3.14	-30.21	-17.09	-33.04	35.44	29.20	6.24	5.683	
1,200.00	1,199.99	1,193.28	1,191.55	3.49	3.51	-61.09	-23.60	-45.78	49.92	43.00	6.91	7.223	
1,300.00	1,299.99	1,288.88	1,285.39	3.85	3.90	-63.99	-33.76	-60.94	68.85	61.28	7.57	9.096	
1,400.00	1,399.99	1,382.71	1,376.57	4.21	4.32	-22.78	-48.06	-77.72	91.96	83.75	8.21	11.205	
1,500.00	1,499.97	1,474.58	1,464.80	4.56	4.75	-6.13	-65.71	-96.26	117.94	109.13	8.81	13.389	
1,600.00	1,599.73	1,565.77	1,551.18	4.92	5.23	-7.75	-85.25	-117.96	143.51	134.11	9.40	15.275	
1,700.00	1,698.94	1,659.59	1,638.96	5.29	5.77	-9.64	-106.14	-143.65	166.99	156.96	10.03	16.643	
1,800.00	1,797.33	1,757.78	1,730.57	5.67	6.37	-11.54	-127.78	-171.58	186.11	175.35	10.76	17.295	
1,900.00	1,894.70	1,857.37	1,823.58	6.08	6.99	-11.01	-149.36	-199.88	200.07	188.55	11.52	17.369	
2,000.00	1,991.28	1,957.49	1,917.19	6.51	7.63	-11.37	-170.70	-228.27	210.54	198.24	12.30	17.122	
2,100.00	2,087.79	2,059.82	2,013.10	6.97	8.29	-12.56	-191.84	-257.01	220.07	206.95	13.12	16.770	
2,200.00	2,184.34	2,161.33	2,108.72	7.44	8.93	-13.62	-212.01	-284.46	228.50	214.56	13.94	16.389	
2,300.00	2,280.85	2,260.39	2,202.15	7.92	9.57	-15.00	-232.19	-310.49	236.58	221.84	14.73	16.056	
2,400.00	2,377.21	2,359.85	2,295.87	8.42	10.21	-16.67	-252.66	-336.77	244.54	229.00	15.54	15.732	
2,500.00	2,473.49	2,461.20	2,391.48	8.93	10.86	-17.68	-273.35	-363.28	252.01	235.62	16.39	15.373	
2,600.00	2,569.80	2,565.87	2,490.68	9.44	11.52	-18.76	-294.00	-389.48	258.34	241.05	17.28	14.947	
2,700.00	2,666.14	2,646.00	2,566.92	9.78	12.02	-17.35	-309.24	-408.87	264.22	246.62	17.60	15.011	
2,800.00	2,762.55	2,646.00	2,566.92	9.97	12.02	-26.84	-309.24	-408.87	295.16	279.48	15.68	18.822	

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. 049H
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. 049H	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		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		
2,900.00	2,859.09	2,646.00	2,566.92	10.18	12.02	-27.64	-309.24	-408.87	353.83	340.24	13.59	26.038		
3,000.00	2,955.88	2,646.00	2,566.92	10.42	12.02	-27.00	-309.24	-408.87	428.58	416.52	12.05	35.552		
3,100.00	3,052.13	2,646.00	2,566.92	10.69	12.02	-25.75	-309.24	-408.87	511.02	499.98	11.04	46.290		
3,200.00	3,148.25	2,646.00	2,566.92	10.99	12.02	-25.34	-309.24	-408.87	598.55	588.14	10.41	57.498		
3,300.00	3,244.63	2,646.00	2,566.92	11.31	12.02	-25.21	-309.24	-408.87	689.67	679.63	10.04	68.692		
3,400.00	3,341.36	2,646.00	2,566.92	11.63	12.02	-25.58	-309.24	-408.87	783.26	773.43	9.83	79.664		
3,500.00	3,438.41	2,646.00	2,566.92	11.96	12.02	-24.60	-309.24	-408.87	878.51	868.79	9.73	90.329		
3,600.00	3,534.80	2,646.00	2,566.92	12.30	12.02	-11.68	-309.24	-408.87	972.87	963.28	9.60	101.389		
3,700.00	3,628.36	2,646.00	2,566.92	12.61	12.02	-6.54	-309.24	-408.87	1,064.00	1,054.53	9.47	112.349		
3,800.00	3,717.75	2,646.00	2,566.92	12.91	12.02	-4.64	-309.24	-408.87	1,151.88	1,142.46	9.42	122.257		
3,900.00	3,803.80	2,646.00	2,566.92	13.20	12.02	-4.30	-309.24	-408.87	1,238.16	1,228.66	9.50	130.304		



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 049H
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. 049H	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	-132.44	-13.48	-14.74	19.97				
100.00	100.00	100.00	100.00	0.13	0.13	-69.80	-13.48	-14.74	19.95	19.68	0.27	74.209	
200.00	200.00	200.00	200.00	0.31	0.49	-70.34	-13.48	-14.74	19.88	19.08	0.81	24.651	
300.00	300.00	300.00	300.00	0.49	0.85	-71.26	-13.48	-14.74	19.77	18.43	1.34	14.709	
400.00	400.00	400.00	400.00	0.67	1.21	-72.56	-13.48	-14.74	19.63	17.74	1.88	10.429	
484.58	484.57	484.57	484.57	0.95	1.51	-91.50	-13.48	-14.74	19.56	17.10	2.46	7.941	
500.00	500.00	500.00	500.00	1.00	1.57	-94.83	-13.48	-14.74	19.55	16.98	2.57	7.608	
600.00	600.00	600.00	600.00	1.36	1.93	-70.13	-13.48	-14.74	19.50	16.22	3.29	5.935	
700.00	699.99	699.99	699.99	1.72	2.29	-89.79	-13.48	-14.74	19.42	15.42	4.00	4.853	
706.10	706.09	706.09	706.09	1.74	2.31	-90.00	-13.48	-14.74	19.42	15.38	4.05	4.800	
800.00	799.99	799.99	799.99	2.08	2.64	-93.54	-13.48	-14.74	19.47	14.75	4.72	4.126	
900.00	899.99	899.99	899.99	2.43	3.00	-58.90	-13.48	-14.74	19.39	13.95	5.43	3.568	
1,000.00	999.99	999.96	999.96	2.78	3.36	-22.39	-13.48	-14.74	19.23	13.09	6.14	3.132	
1,000.57	1,000.56	1,000.53	1,000.53	2.78	3.36	-22.39	-13.48	-14.74	19.23	13.09	6.14	3.130 CC, ES	
1,100.00	1,099.99	1,098.91	1,098.86	3.13	3.69	-49.27	-15.18	-16.86	21.71	14.89	6.82	3.185	
1,200.00	1,199.99	1,197.33	1,196.97	3.49	4.02	-78.65	-20.05	-22.93	29.32	21.83	7.48	3.918	
1,300.00	1,299.99	1,294.71	1,293.50	3.85	4.37	-78.03	-27.96	-32.81	42.13	34.00	8.13	5.181	
1,400.00	1,399.99	1,390.58	1,387.80	4.21	4.72	-32.69	-38.76	-46.27	59.85	51.09	8.76	6.834	
1,500.00	1,499.97	1,484.84	1,479.55	4.56	5.10	-12.63	-52.24	-63.09	81.03	71.68	9.36	8.662	
1,600.00	1,599.73	1,578.09	1,569.17	4.92	5.51	-12.44	-68.35	-83.18	102.26	92.34	9.92	10.306	
1,700.00	1,698.94	1,670.54	1,656.67	5.29	5.97	-13.72	-87.00	-106.45	122.71	112.24	10.47	11.716	
1,800.00	1,797.33	1,766.88	1,746.66	5.67	6.48	-15.53	-108.52	-133.29	141.70	130.56	11.13	12.726	
1,900.00	1,894.70	1,865.80	1,838.98	6.08	7.04	-15.16	-130.72	-160.99	156.08	144.22	11.87	13.153	
2,000.00	1,991.28	1,965.12	1,931.68	6.51	7.63	-15.80	-153.02	-188.80	167.32	154.69	12.62	13.255	
2,100.00	2,087.79	2,064.47	2,024.41	6.97	8.24	-17.31	-175.33	-216.63	178.32	164.92	13.40	13.310	
2,200.00	2,184.34	2,163.78	2,117.11	7.44	8.86	-18.59	-197.63	-244.44	189.62	175.44	14.19	13.365	
2,300.00	2,280.85	2,263.11	2,209.81	7.92	9.50	-19.95	-219.93	-272.26	200.84	185.85	14.99	13.396	
2,400.00	2,377.21	2,362.46	2,302.54	8.42	10.14	-21.58	-242.23	-300.08	211.73	195.92	15.81	13.390	
2,500.00	2,473.49	2,461.83	2,395.29	8.93	10.79	-22.50	-264.54	-327.91	222.42	205.78	16.65	13.362	
2,600.00	2,569.80	2,561.18	2,488.02	9.44	11.45	-23.37	-286.85	-355.74	233.32	215.84	17.48	13.347	
2,700.00	2,666.14	2,660.57	2,580.79	9.78	12.12	-21.89	-309.17	-383.57	244.06	225.94	18.12	13.472	
2,800.00	2,762.55	2,759.74	2,673.35	9.97	12.79	-32.86	-331.43	-411.35	256.12	237.48	18.64	13.738	
2,900.00	2,859.09	2,858.60	2,765.62	10.18	13.46	-34.92	-353.63	-439.03	269.94	250.71	19.23	14.040	
3,000.00	2,955.88	2,957.40	2,857.84	10.42	14.13	-35.13	-375.81	-466.70	284.58	264.74	19.83	14.349	
3,100.00	3,052.13	3,056.40	2,950.24	10.69	14.81	-35.58	-398.04	-494.43	297.51	277.02	20.48	14.524	
3,200.00	3,148.25	3,155.49	3,042.73	10.99	15.49	-35.25	-420.29	-522.18	309.84	288.67	21.17	14.637	
3,300.00	3,244.63	3,254.60	3,135.23	11.31	16.17	-34.31	-442.54	-549.94	322.57	300.71	21.86	14.757	
3,400.00	3,341.36	3,353.67	3,227.70	11.63	16.85	-33.40	-464.78	-577.68	335.97	313.43	22.54	14.904	
3,500.00	3,438.41	3,452.66	3,320.09	11.96	17.54	-27.70	-487.01	-605.41	350.08	326.87	23.21	15.083	
3,600.00	3,534.80	3,551.75	3,412.58	12.30	18.23	10.73	-509.25	-633.16	358.64	334.96	23.68	15.146	
3,700.00	3,628.36	3,648.42	3,502.81	12.61	18.90	31.69	-530.96	-660.23	360.94	337.13	23.81	15.156	
3,800.00	3,717.75	3,740.80	3,589.03	12.91	19.54	47.58	-551.70	-686.10	362.38	338.53	23.85	15.191	
3,900.00	3,803.80	3,829.12	3,671.46	13.20	20.16	58.83	-571.53	-710.84	368.75	344.59	24.15	15.267	
4,000.00	3,885.98	3,912.93	3,749.69	13.51	20.75	69.54	-590.35	-734.31	382.61	357.61	25.00	15.304	
4,100.00	3,962.27	3,989.39	3,821.06	13.83	21.28	80.76	-607.51	-755.72	408.47	381.92	26.55	15.383	
4,200.00	4,031.66	4,057.22	3,884.36	14.17	21.75	87.59	-622.74	-774.72	448.62	419.97	28.65	15.659	
4,300.00	4,091.96	4,115.96	3,939.19	14.63	22.17	89.91	-635.93	-791.17	499.11	468.11	31.00	16.100	
4,400.00	4,146.16	4,169.00	3,988.69	15.25	22.54	93.82	-647.84	-806.03	557.75	524.46	33.29	16.756	
4,500.00	4,191.72	4,212.98	4,029.74	16.08	22.85	92.38	-657.71	-818.34	625.59	590.26	35.33	17.707	
4,600.00	4,223.73	4,502.51	4,292.98	17.14	24.66	111.27	-764.65	-855.69	702.55	664.91	37.63	18.668	
4,700.00	4,240.94	5,264.00	4,634.66	18.42	27.75	122.88	-1,301.49	-520.28	721.07	691.89	29.18	24.712	
4,800.00	4,246.89	5,363.74	4,634.24	19.92	28.35	122.73	-1,372.61	-450.33	715.20	683.28	31.92	22.406	

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. 049H
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. 049H	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 (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
4,900.00	4,250.15	5,463.65	4,633.83	21.59	29.14	122.63	-1,443.83	-380.28	711.21	676.37	34.84	20.413	
5,000.00	4,251.53	5,563.61	4,633.41	23.37	30.13	122.60	-1,515.10	-310.18	708.77	670.81	37.96	18.670	
5,031.25	4,251.54	5,594.86	4,633.28	23.94	30.48	122.60	-1,537.38	-288.26	708.63	669.78	38.85	18.238	
5,100.00	4,250.78	5,663.60	4,633.00	25.23	31.30	122.58	-1,586.39	-240.06	709.58	668.76	40.82	17.385	
5,200.00	4,248.42	5,763.56	4,632.58	27.16	32.67	122.59	-1,657.65	-169.97	712.45	668.17	44.28	16.089	
5,300.00	4,245.60	5,863.50	4,632.17	29.15	34.17	122.69	-1,728.90	-99.89	715.63	668.00	47.63	15.025	
5,400.00	4,245.75	5,963.50	4,631.75	31.18	35.79	122.66	-1,800.20	-29.77	715.26	664.18	51.08	14.003	
5,432.80	4,245.62	5,996.30	4,631.61	31.86	36.35	122.66	-1,823.58	-6.77	715.20	662.98	52.22	13.696	
5,500.00	4,244.80	6,063.50	4,631.33	33.25	37.51	122.70	-1,871.49	40.35	715.40	660.87	54.53	13.119	
5,600.00	4,241.48	6,163.45	4,630.92	35.35	39.31	122.88	-1,942.75	110.44	716.91	658.99	57.92	12.378	
5,700.00	4,238.97	6,263.41	4,630.50	37.47	41.16	123.05	-2,014.01	180.53	717.79	656.44	61.35	11.701	
5,800.00	4,240.06	6,363.40	4,630.09	39.61	43.07	122.99	-2,085.30	250.64	716.35	651.40	64.95	11.029	
5,863.58	4,239.98	6,426.97	4,629.82	40.98	44.31	122.98	-2,130.62	295.23	716.10	648.87	67.23	10.651	
5,900.00	4,239.56	6,463.39	4,629.67	41.77	45.02	123.00	-2,156.59	320.76	716.18	647.66	68.52	10.452	
6,000.00	4,240.41	6,563.38	4,629.26	43.93	47.01	122.91	-2,227.87	390.87	715.29	643.11	72.17	9.911	
6,100.00	4,242.49	6,663.34	4,628.84	46.12	49.03	122.76	-2,299.14	460.97	713.91	637.99	75.93	9.403	
6,200.00	4,242.63	6,763.34	4,628.43	48.31	51.07	122.74	-2,370.43	531.09	713.45	633.88	79.58	8.966	
6,213.42	4,242.50	6,776.76	4,628.37	48.60	51.35	122.74	-2,380.00	540.50	713.45	633.39	80.06	8.912	
6,300.00	4,240.87	6,863.33	4,628.01	50.50	53.14	122.84	-2,441.72	601.21	713.93	630.81	83.12	8.590	
6,400.00	4,242.21	6,963.30	4,627.59	52.71	55.22	122.72	-2,512.99	671.31	712.83	625.97	86.86	8.207	
6,500.00	4,244.26	7,063.27	4,627.18	54.93	57.33	122.54	-2,584.26	741.41	711.92	621.23	90.69	7.850	
6,516.05	4,244.44	7,079.32	4,627.11	55.28	57.66	122.52	-2,595.71	752.66	711.90	620.60	91.30	7.797	
6,600.00	4,244.57	7,163.26	4,626.76	57.15	59.44	122.44	-2,655.55	811.52	712.43	617.97	94.46	7.542	
6,700.00	4,243.10	7,263.25	4,626.35	59.38	61.57	122.44	-2,726.83	881.64	714.03	615.93	98.11	7.278	
6,800.00	4,241.04	7,363.22	4,625.93	61.61	63.71	122.51	-2,798.10	951.74	716.22	614.49	101.73	7.040	
6,900.00	4,243.59	7,463.17	4,625.52	63.85	65.87	122.29	-2,869.36	1,021.82	714.79	609.16	105.63	6.767	
7,000.00	4,246.02	7,563.12	4,625.10	66.09	68.03	122.08	-2,940.62	1,091.91	713.87	604.30	109.57	6.515	
7,016.95	4,246.27	7,580.07	4,625.03	66.47	68.39	122.05	-2,952.70	1,103.79	713.85	603.63	110.22	6.476	
7,100.00	4,246.58	7,663.11	4,624.68	68.33	70.20	121.96	-3,011.91	1,162.03	714.33	600.94	113.39	6.300	
7,200.00	4,244.94	7,763.09	4,624.27	70.58	72.37	121.97	-3,083.19	1,232.14	716.03	598.99	117.04	6.118	
7,300.00	4,243.98	7,863.07	4,623.85	72.84	74.56	121.97	-3,154.47	1,302.24	717.58	596.82	120.76	5.942	
7,400.00	4,245.93	7,963.03	4,623.44	75.09	76.75	121.74	-3,225.73	1,372.33	717.88	593.12	124.76	5.754	
7,500.00	4,246.86	8,062.98	4,623.02	77.36	78.95	121.53	-3,296.99	1,442.42	719.57	590.81	128.76	5.589	
7,600.00	4,246.20	8,162.89	4,622.61	79.63	81.15	121.36	-3,368.22	1,512.48	723.14	590.44	132.70	5.449	
7,700.00	4,245.10	8,262.87	4,622.19	81.89	83.35	121.38	-3,439.50	1,582.59	724.32	587.94	136.38	5.311	
7,800.00	4,243.72	8,362.85	4,621.78	84.14	85.56	121.50	-3,510.78	1,652.70	723.66	583.81	139.85	5.175	
7,805.65	4,243.61	8,368.51	4,621.75	84.27	85.69	121.51	-3,514.81	1,656.66	723.66	583.61	140.04	5.167	
7,900.00	4,241.06	8,462.83	4,621.36	86.40	87.78	121.66	-3,582.05	1,722.80	724.40	581.17	143.23	5.058	
8,000.00	4,237.14	8,562.76	4,620.94	88.66	89.99	121.88	-3,653.30	1,792.88	726.58	580.06	146.53	4.959	
8,100.00	4,236.38	8,662.74	4,620.53	90.91	92.22	122.00	-3,724.58	1,862.98	725.15	575.20	149.95	4.836	
8,200.00	4,236.31	8,762.70	4,620.11	93.15	94.44	122.07	-3,795.85	1,933.08	722.81	569.44	153.37	4.713	
8,300.00	4,238.50	8,862.61	4,619.70	95.40	96.67	122.01	-3,867.07	2,003.14	718.63	561.66	156.97	4.578	
8,400.00	4,240.79	8,962.54	4,619.28	97.65	98.90	121.94	-3,938.32	2,073.21	715.10	554.45	160.65	4.451	
8,500.00	4,242.69	9,062.51	4,618.87	99.90	101.13	121.84	-4,009.59	2,143.31	712.89	548.48	164.41	4.336	
8,599.95	4,243.76	9,162.45	4,618.45	102.17	103.36	121.75	-4,080.84	2,213.39	712.11	543.93	168.18	4.234	
8,600.00	4,243.79	9,162.50	4,618.45	102.17	103.37	121.75	-4,080.87	2,213.42	712.06	543.89	168.18	4.234	
8,700.00	4,243.92	9,262.49	4,618.04	104.44	105.60	121.67	-4,152.16	2,283.54	712.60	540.68	171.92	4.145	
8,800.00	4,243.06	9,362.48	4,617.62	106.72	107.84	121.65	-4,223.45	2,353.66	713.65	538.11	175.54	4.066	
8,900.00	4,240.89	9,462.46	4,617.20	108.99	110.09	121.69	-4,294.73	2,423.76	715.76	536.75	179.01	3.998	
9,000.00	4,239.47	9,562.43	4,616.79	111.27	112.33	121.76	-4,366.00	2,493.87	716.85	534.36	182.49	3.928	
9,100.00	4,240.57	9,662.40	4,616.37	113.52	114.58	121.74	-4,437.27	2,563.96	714.32	528.30	186.02	3.840	
9,200.00	4,240.85	9,762.39	4,615.96	115.79	116.82	121.76	-4,508.56	2,634.08	712.68	523.21	189.47	3.761	

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. 049H
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. 049H	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		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
9,290.30	4,240.00	9,852.68	4,615.58	117.83	118.85	121.82	-4,572.93	2,697.39	712.32	519.83	192.49	3.701
9,300.00	4,239.87	9,862.38	4,615.54	118.05	119.07	121.83	-4,579.85	2,704.19	712.33	519.51	192.81	3.694
9,400.00	4,237.85	9,962.37	4,615.13	120.32	121.32	121.96	-4,651.13	2,774.31	712.79	516.78	196.01	3.636
9,500.00	4,239.18	10,062.34	4,614.71	122.59	123.57	121.83	-4,722.40	2,844.41	711.58	511.86	199.73	3.563
9,600.00	4,242.35	10,162.27	4,614.30	124.86	125.82	121.60	-4,793.65	2,914.48	709.79	505.99	203.79	3.483
9,694.20	4,244.38	10,256.44	4,613.90	127.01	127.95	121.41	-4,860.78	2,980.51	709.19	501.62	207.57	3.417
9,700.00	4,244.45	10,262.24	4,613.88	127.14	128.08	121.40	-4,864.92	2,984.58	709.19	501.40	207.80	3.413
9,800.00	4,245.35	10,362.21	4,613.46	129.43	130.33	121.24	-4,936.19	3,054.68	709.91	498.20	211.71	3.353
9,900.00	4,244.68	10,462.19	4,613.05	131.71	132.59	121.16	-5,007.47	3,124.79	711.77	496.34	215.43	3.304
10,000.00	4,242.11	10,562.13	4,612.63	134.00	134.85	121.15	-5,078.72	3,194.87	715.34	496.42	218.92	3.268
10,100.00	4,238.56	10,662.01	4,612.22	136.29	137.10	121.25	-5,149.93	3,264.91	719.89	497.58	222.31	3.238
10,200.00	4,237.62	10,762.01	4,611.80	138.58	139.36	121.29	-5,221.22	3,335.03	720.46	494.73	225.72	3.192
10,300.00	4,235.83	10,861.99	4,611.39	140.86	141.62	121.32	-5,292.50	3,405.14	722.03	492.97	229.06	3.152
10,400.00	4,233.93	10,961.97	4,610.97	143.14	143.88	121.39	-5,363.78	3,475.24	723.81	491.42	232.39	3.115
10,500.00	4,235.79	11,061.94	4,610.56	145.42	146.14	121.23	-5,435.05	3,545.35	722.84	486.58	236.27	3.059
10,576.82	4,236.85	11,138.74	4,610.24	147.17	147.88	121.12	-5,489.81	3,599.20	722.52	483.31	239.22	3.020
10,600.00	4,237.14	11,161.92	4,610.14	147.70	148.41	121.08	-5,506.33	3,615.45	722.49	482.38	240.11	3.009
10,700.00	4,236.54	11,261.91	4,609.72	149.98	150.67	121.05	-5,577.62	3,685.57	723.43	479.80	243.64	2.969
10,800.00	4,234.34	11,361.88	4,609.31	152.25	152.93	121.27	-5,648.89	3,755.67	723.49	476.97	246.52	2.935
10,900.00	4,230.82	11,461.79	4,608.89	154.51	155.20	121.58	-5,720.12	3,825.73	722.59	473.81	248.78	2.905
10,900.11	4,230.82	11,461.90	4,608.89	154.51	155.20	121.58	-5,720.20	3,825.81	722.59	473.81	248.78	2.904
11,000.00	4,226.15	11,561.69	4,608.48	156.78	157.46	121.89	-5,791.34	3,895.78	723.52	472.53	250.99	2.883
11,100.00	4,219.99	11,661.52	4,608.06	158.96	159.72	122.24	-5,862.51	3,965.78	726.34	473.33	253.01	2.871
11,175.00	4,214.90	11,736.37	4,607.75	160.18	161.42	122.55	-5,915.88	4,018.26	729.01	474.90	254.10	2.869 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. 049H
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. 049H	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 - rev4												Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2595-MWD												Offset Well Error:	0.00 ft
Reference												Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
2,595.00	2,564.98	2,595.00	2,564.99	0.00	0.00	141.44	-114.01	-220.06	0.03				
2,600.00	2,569.80	2,600.00	2,569.80	0.03	0.03	87.98	-114.62	-221.25	0.00	0.00	0.01	0.338 Level 1<1.00	
2,700.00	2,666.14	2,699.99	2,666.13	0.38	0.57	90.04	-126.78	-245.16	0.79	-0.14	0.93	0.849 Level 1<1.00	
2,800.00	2,762.55	2,799.96	2,762.45	0.61	1.11	73.57	-136.80	-269.95	1.48	-0.15	1.62	0.910 Level 1<1.00	
2,871.21	2,831.29	2,871.16	2,831.06	0.80	1.49	40.45	-143.44	-287.81	1.14	-0.15	1.30	0.881 Level 1<1.00	
2,900.00	2,859.09	2,899.95	2,858.80	0.87	1.65	16.95	-146.13	-295.02	1.18	-0.07	1.25	0.947 Level 1<1.00, CC	
3,000.00	2,955.88	2,999.93	2,955.13	1.14	2.19	-11.61	-155.45	-320.10	2.85	1.03	1.82	1.568 Level 3<2.00	
3,100.00	3,052.13	3,099.92	3,051.48	1.44	2.74	-26.66	-164.78	-345.18	2.72	0.51	2.21	1.231 Level 2<1.50	
3,200.00	3,148.25	3,199.92	3,147.83	1.76	3.29	-39.91	-174.11	-370.26	2.08	-0.49	2.57	0.810 Level 1<1.00	
3,281.05	3,226.36	3,280.97	3,225.92	2.04	3.74	-27.66	-181.67	-390.58	1.86	-1.02	2.88	0.645 Level 1<1.00	
3,300.00	3,244.63	3,299.92	3,244.18	2.10	3.84	-21.50	-183.44	-395.33	1.84	-1.19	3.03	0.607 Level 1<1.00	
3,400.00	3,341.36	3,399.89	3,340.51	2.45	4.40	15.06	-192.76	-420.41	3.22	0.01	3.21	1.004 Level 2<1.50	
3,500.00	3,438.41	3,499.83	3,436.80	2.79	4.95	33.65	-202.09	-445.47	6.59	2.73	3.86	1.707 Level 3<2.00	
3,600.00	3,534.80	3,600.23	3,533.76	3.16	5.50	102.36	-213.69	-468.60	15.79	8.13	7.66	2.060	
3,700.00	3,628.36	3,702.24	3,632.35	3.56	6.01	133.37	-235.32	-482.76	30.96	21.81	9.14	3.385	
3,800.00	3,717.75	3,806.56	3,731.29	3.95	6.47	150.07	-267.88	-486.65	46.65	36.93	9.72	4.800	
3,900.00	3,803.80	3,913.73	3,828.76	4.32	6.89	158.26	-311.60	-479.39	57.44	47.59	9.84	5.834	
4,000.00	3,885.98	4,022.56	3,921.18	4.68	7.28	165.49	-365.66	-460.53	62.04	52.41	9.63	6.443	
4,100.00	3,962.27	4,131.92	4,005.28	5.01	7.64	171.75	-428.53	-430.34	62.98	53.82	9.16	6.875	
4,200.00	4,031.66	4,241.10	4,078.50	5.32	8.00	172.13	-498.39	-389.67	60.17	51.65	8.52	7.059	
4,300.00	4,091.96	4,349.32	4,138.84	5.72	8.44	171.41	-573.04	-339.91	54.65	46.81	7.85	6.965	
4,400.00	4,146.16	4,453.04	4,189.11	6.35	9.06	173.31	-646.89	-287.28	47.86	40.01	7.85	6.098	
4,500.00	4,191.72	4,559.95	4,226.42	7.28	9.98	178.86	-725.24	-225.10	35.98	28.89	7.09	5.075	
4,600.00	4,223.73	4,663.84	4,245.05	8.45	11.44	-174.06	-801.65	-157.43	21.53	14.79	6.73	3.197	
4,700.00	4,240.94	4,764.24	4,247.52	10.93	13.59	-146.67	-873.71	-87.65	7.87	3.13	4.74	1.661 Level 3<2.00	
4,753.08	4,245.13	4,817.12	4,247.39	12.15	14.72	-111.42	-911.41	-50.57	6.21	-2.97	9.18	0.676 Level 1<1.00	
4,800.00	4,246.89	4,864.00	4,247.26	13.26	15.69	-93.04	-944.83	-17.70	7.20	-2.38	9.58	0.752 Level 1<1.00	
4,900.00	4,250.15	4,963.90	4,247.00	15.52	17.77	-71.83	-1,016.06	52.35	10.07	2.38	7.69	1.309 Level 2<1.50	
5,000.00	4,251.53	5,063.87	4,246.74	17.73	19.85	-67.02	-1,087.34	122.45	12.27	4.31	7.96	1.542 Level 3<2.00	
5,100.00	4,250.78	5,163.86	4,246.48	19.92	21.93	-67.87	-1,158.63	192.57	11.40	3.21	8.19	1.392 Level 2<1.50	
5,200.00	4,248.42	5,263.82	4,246.22	22.10	24.02	-75.31	-1,229.89	262.65	8.67	-0.67	9.34	0.929 Level 1<1.00	
5,300.00	4,245.60	5,363.75	4,245.96	24.28	26.12	-93.28	-1,301.14	332.73	6.16	-4.74	10.90	0.565 Level 1<1.00	
5,382.73	4,245.12	5,446.48	4,245.74	26.08	27.86	-96.08	-1,360.12	390.73	5.83	-5.28	11.11	0.525 Level 1<1.00	
5,400.00	4,245.75	5,463.75	4,245.69	26.45	28.23	-89.45	-1,372.44	402.84	6.21	-5.40	11.62	0.535 Level 1<1.00	
5,500.00	4,244.80	5,563.75	4,245.43	28.63	30.35	-95.64	-1,443.73	472.96	6.43	-5.60	12.03	0.534 Level 1<1.00	
5,600.00	4,241.48	5,663.70	4,245.17	30.81	32.48	-119.70	-1,514.99	543.04	7.44	-2.79	10.23	0.728 Level 1<1.00	
5,700.00	4,238.97	5,763.66	4,244.91	32.99	34.63	-131.26	-1,586.26	613.13	9.01	-0.86	9.88	0.913 Level 1<1.00	
5,800.00	4,240.06	5,863.64	4,244.65	35.18	36.78	-121.44	-1,657.55	683.24	8.80	-2.29	11.10	0.793 Level 1<1.00	
5,818.07	4,240.13	5,881.71	4,244.60	35.57	37.17	-120.61	-1,670.43	695.91	8.78	-2.43	11.22	0.783 Level 1<1.00	
5,900.00	4,239.56	5,963.64	4,244.39	37.37	38.94	-121.88	-1,728.84	753.36	9.13	-2.12	11.25	0.811 Level 1<1.00	
6,000.00	4,240.41	6,063.62	4,244.12	39.57	41.11	-114.90	-1,800.13	823.47	8.82	-3.20	12.02	0.734 Level 1<1.00	
6,100.00	4,242.49	6,163.59	4,243.86	41.78	43.29	-99.70	-1,871.41	893.57	8.13	-6.36	14.49	0.561 Level 1<1.00	
6,136.35	4,242.78	6,199.94	4,243.77	42.58	44.08	-97.02	-1,897.32	919.05	8.08	-6.61	14.69	0.550 Level 1<1.00	
6,200.00	4,242.63	6,263.59	4,243.60	43.99	45.47	-96.75	-1,942.70	963.69	8.26	-6.23	14.49	0.570 Level 1<1.00	
6,300.00	4,240.87	6,363.58	4,243.34	46.21	47.66	-106.22	-2,013.99	1,033.80	8.85	-5.99	14.85	0.596 Level 1<1.00	
6,400.00	4,242.21	6,463.56	4,243.08	48.43	49.86	-95.69	-2,085.27	1,103.90	8.71	-6.79	15.50	0.562 Level 1<1.00	
6,500.00	4,244.26	6,563.53	4,242.82	50.65	52.06	-79.98	-2,156.55	1,174.00	8.30	-5.55	13.85	0.599 Level 1<1.00	
6,600.00	4,244.57	6,663.52	4,242.55	52.89	54.27	-74.20	-2,227.84	1,244.11	7.38	-6.24	13.63	0.542 Level 1<1.00	
6,700.00	4,243.10	6,763.50	4,242.29	55.13	56.48	-82.16	-2,299.12	1,314.22	5.92	-8.42	14.34	0.413 Level 1<1.00	
6,800.00	4,241.04	6,863.47	4,242.03	57.37	58.70	-102.95	-2,370.39	1,384.31	4.43	-9.03	13.46	0.329 Level 1<1.00, ES	
6,886.78	4,242.34	6,950.23	4,241.80	59.31	60.62	-81.93	-2,432.25	1,445.15	3.84	-8.95	12.79	0.300 Level 1<1.00, SF	
6,900.00	4,243.59	6,963.43	4,241.77	59.61	60.92	-66.11	-2,441.66	1,454.40	4.50	-6.77	11.28	0.399 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. 049H
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. 049H	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 - rev4												Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2595-MWD												Offset Well Error:	0.00 ft
Reference												Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
				Reference	Offset		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
7,000.00	4,246.02	7,063.39	4,241.51	61.85	63.14	-37.06	-2,512.93	1,524.49	5.66	-3.47	9.13	0.620 Level 1<1.00	
7,100.00	4,246.58	7,163.37	4,241.25	64.10	65.37	-23.02	-2,584.22	1,594.60	5.79	-3.51	9.30	0.622 Level 1<1.00	
7,200.00	4,244.94	7,263.33	4,240.79	66.35	67.59	-13.75	-2,655.48	1,664.69	4.28	-5.22	9.50	0.450 Level 1<1.00	
7,242.82	4,244.25	7,306.15	4,240.40	67.32	68.55	-5.98	-2,686.00	1,694.72	3.87	-5.68	9.55	0.405 Level 1<1.00	
7,300.00	4,243.98	7,363.31	4,239.90	68.61	69.83	6.57	-2,726.76	1,734.80	4.11	-5.38	9.49	0.433 Level 1<1.00	
7,400.00	4,245.93	7,463.25	4,239.01	70.86	72.06	18.31	-2,798.01	1,804.88	7.29	-1.16	8.45	0.862 Level 1<1.00	
7,500.00	4,246.86	7,563.19	4,238.12	73.13	74.30	30.30	-2,869.26	1,874.96	10.12	-0.36	10.48	0.966 Level 1<1.00	
7,600.00	4,246.20	7,663.11	4,237.23	75.40	76.54	45.52	-2,940.49	1,945.02	12.81	-0.85	13.66	0.938 Level 1<1.00	
7,700.00	4,245.10	7,763.09	4,236.34	77.66	78.78	49.10	-3,011.76	2,015.12	13.37	-0.81	14.18	0.943 Level 1<1.00	
7,800.00	4,243.72	7,863.08	4,235.45	79.91	81.03	46.62	-3,083.05	2,085.23	12.04	-1.46	13.50	0.892 Level 1<1.00	
7,900.00	4,241.06	7,963.06	4,234.56	82.16	83.27	51.74	-3,154.33	2,155.34	10.50	-2.97	13.46	0.780 Level 1<1.00	
8,000.00	4,237.14	8,063.01	4,233.67	84.42	85.52	68.14	-3,225.58	2,225.43	9.30	-5.92	15.22	0.611 Level 1<1.00	
8,100.00	4,236.38	8,162.98	4,232.79	86.67	87.77	61.87	-3,296.85	2,295.53	7.63	-6.40	14.03	0.544 Level 1<1.00	
8,200.00	4,236.31	8,262.95	4,231.90	88.91	90.02	43.48	-3,368.12	2,365.62	6.08	-4.79	10.87	0.560 Level 1<1.00	
8,223.24	4,236.55	8,286.17	4,231.69	89.43	90.54	35.84	-3,384.68	2,381.90	6.00	-4.31	10.31	0.582 Level 1<1.00	
8,300.00	4,238.50	8,362.84	4,231.01	91.15	92.27	6.71	-3,439.34	2,435.67	7.54	-4.03	11.57	0.652 Level 1<1.00	
8,400.00	4,240.79	8,462.76	4,230.12	93.40	94.52	-8.47	-3,510.57	2,505.73	10.79	-1.65	12.44	0.868 Level 1<1.00	
8,500.00	4,242.69	8,562.71	4,229.23	95.66	96.78	-11.58	-3,581.83	2,575.82	13.73	0.87	12.87	1.067 Level 2<1.50	
8,600.00	4,243.79	8,662.69	4,228.34	97.92	99.04	-10.23	-3,653.10	2,645.92	15.69	1.36	14.34	1.095 Level 2<1.50	
8,700.00	4,243.92	8,762.68	4,227.45	100.19	101.29	-6.29	-3,724.39	2,716.03	16.57	2.79	13.78	1.202 Level 2<1.50	
8,800.00	4,243.06	8,862.68	4,226.56	102.46	103.55	-2.98	-3,795.68	2,786.15	16.52	3.04	13.48	1.226 Level 2<1.50	
8,900.00	4,240.89	8,962.66	4,225.67	104.74	105.81	2.06	-3,866.95	2,856.26	15.23	2.13	13.10	1.162 Level 2<1.50	
8,967.71	4,239.81	9,030.36	4,225.07	106.28	107.34	4.36	-3,915.22	2,903.73	14.78	0.58	14.19	1.041 Level 2<1.50	
9,000.00	4,239.47	9,062.64	4,224.78	107.01	108.07	4.71	-3,938.23	2,926.36	14.74	0.13	14.61	1.009 Level 2<1.50	
9,100.00	4,240.57	9,162.60	4,223.90	109.26	110.33	-2.87	-4,009.49	2,996.45	16.69	1.55	15.14	1.102 Level 2<1.50	
9,200.00	4,240.85	9,262.58	4,223.01	111.52	112.60	-7.44	-4,080.77	3,066.56	17.99	2.23	15.76	1.142 Level 2<1.50	
9,300.00	4,239.87	9,362.58	4,222.12	113.79	114.86	-9.92	-4,152.06	3,136.68	18.02	3.02	15.00	1.201 Level 2<1.50	
9,400.00	4,237.85	9,462.57	4,221.23	116.06	117.13	-12.04	-4,223.35	3,206.79	17.00	1.19	15.81	1.075 Level 2<1.50	
9,415.76	4,237.64	9,478.33	4,221.09	116.41	117.48	-12.27	-4,234.58	3,217.84	16.94	0.77	16.16	1.048 Level 2<1.50	
9,500.00	4,239.18	9,562.53	4,220.34	118.32	119.39	-11.67	-4,294.61	3,276.88	19.23	3.14	16.09	1.195 Level 2<1.50	
9,600.00	4,242.35	9,662.45	4,219.45	120.59	121.65	-9.39	-4,365.84	3,346.94	23.21	5.93	17.28	1.344 Level 2<1.50	
9,700.00	4,244.45	9,762.40	4,218.56	122.87	123.92	-6.48	-4,437.10	3,417.03	26.05	8.77	17.28	1.508 Level 3<2.00	
9,800.00	4,245.35	9,862.37	4,217.67	125.15	126.19	-2.69	-4,508.37	3,487.13	27.71	8.06	19.64	1.411 Level 2<1.50	
9,900.00	4,244.68	9,962.34	4,216.78	127.44	128.46	1.46	-4,579.64	3,557.23	27.91	8.76	19.15	1.458 Level 2<1.50	
10,000.00	4,242.11	10,062.29	4,215.89	129.73	130.72	7.77	-4,650.89	3,627.31	26.46	6.51	19.95	1.326 Level 2<1.50	
10,100.00	4,238.56	10,162.19	4,215.01	132.02	132.99	16.56	-4,722.11	3,697.36	24.58	9.05	15.53	1.583 Level 3<2.00	
10,179.65	4,237.20	10,241.83	4,214.30	133.83	134.80	19.25	-4,778.89	3,753.21	24.26	9.17	15.09	1.607 Level 3<2.00	
10,200.00	4,237.62	10,262.19	4,214.12	134.30	135.26	17.38	-4,793.40	3,767.48	24.63	8.49	16.14	1.526 Level 3<2.00	
10,300.00	4,235.83	10,362.18	4,213.23	136.58	137.53	20.29	-4,864.69	3,837.59	24.10	7.93	16.17	1.491 Level 2<1.50	
10,372.48	4,234.72	10,434.64	4,212.58	138.23	139.17	22.41	-4,916.35	3,888.41	23.95	7.79	16.15	1.483 Level 2<1.50	
10,400.00	4,233.93	10,462.16	4,212.34	138.86	139.80	23.84	-4,935.96	3,907.70	23.61	7.58	16.03	1.473 Level 2<1.50	
10,500.00	4,235.79	10,562.12	4,211.45	141.13	142.07	21.92	-5,007.23	3,977.79	26.23	8.40	17.84	1.471 Level 2<1.50	
10,600.00	4,237.14	10,662.09	4,210.56	143.41	144.34	21.46	-5,078.50	4,047.89	28.56	10.85	17.71	1.613 Level 3<2.00	
10,700.00	4,236.54	10,762.08	4,209.67	145.69	146.61	23.06	-5,149.79	4,118.00	29.20	9.81	19.39	1.506 Level 3<2.00	
10,800.00	4,234.34	10,862.06	4,208.78	147.96	148.89	22.21	-5,221.06	4,188.11	27.60	9.41	18.19	1.517 Level 3<2.00	
10,900.00	4,230.82	10,961.98	4,207.89	150.22	151.16	18.09	-5,292.29	4,258.17	24.12	7.95	16.17	1.492 Level 2<1.50	
11,000.00	4,226.15	11,061.89	4,207.01	152.48	153.43	17.26	-5,363.52	4,328.23	20.04	4.08	15.97	1.255 Level 2<1.50	
11,100.00	4,219.99	11,161.75	4,206.12	154.66	155.70	22.25	-5,434.72	4,398.25	14.98	3.94	11.04	1.357 Level 2<1.50	
11,114.25	4,219.02	11,174.94	4,206.00	154.89	156.00	23.52	-5,444.12	4,407.50	14.25	-2.24	16.49	0.864 Level 1<1.00	
11,175.00	4,214.90	11,174.94	4,206.00	155.86	156.00	23.52	-5,444.12	4,407.50	62.66	58.16	4.51	13.908	

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. 049H
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. 049H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	48.90	13.12	15.04	19.95					
100.00	100.00	99.97	99.97	0.13	0.17	111.52	13.27	15.01	20.06	19.75	0.30	66.196		
200.00	200.00	199.93	199.93	0.31	0.34	110.90	13.73	14.92	20.37	19.72	0.65	31.305 ES		
300.00	300.00	299.90	299.89	0.49	0.51	109.92	14.51	14.78	20.91	19.91	1.00	20.934		
400.00	400.00	399.86	399.85	0.67	0.67	108.63	15.59	14.58	21.66	20.31	1.35	16.086		
500.00	500.00	499.76	499.73	1.00	1.00	86.21	17.08	14.36	22.65	20.65	2.00	11.307		
600.00	600.00	599.76	599.72	1.36	1.36	110.29	18.88	14.17	23.89	21.17	2.72	8.783		
700.00	699.99	699.88	699.83	1.72	1.72	91.36	20.16	14.05	24.85	21.42	3.44	7.230		
800.00	799.99	799.91	799.86	2.08	2.08	88.87	21.01	13.98	25.43	21.27	4.15	6.121		
900.00	899.99	899.97	899.91	2.43	2.44	124.31	21.66	13.89	25.95	21.09	4.87	5.332		
1,000.00	999.99	999.98	999.93	2.78	2.79	160.48	22.04	13.76	26.33	20.75	5.58	4.722		
1,100.00	1,099.99	1,099.95	1,099.90	3.13	3.15	131.78	22.52	13.70	26.86	20.57	6.29	4.272		
1,200.00	1,199.99	1,199.95	1,199.89	3.49	3.51	99.50	22.98	13.68	27.34	20.34	7.00	3.905		
1,300.00	1,299.99	1,299.90	1,299.84	3.85	3.87	98.09	23.44	13.81	27.80	20.09	7.72	3.603		
1,400.00	1,399.99	1,399.82	1,399.76	4.21	4.22	141.89	24.01	14.18	28.63	20.20	8.43	3.397		
1,500.00	1,499.97	1,499.72	1,499.66	4.56	4.58	161.59	24.77	14.68	31.14	22.00	9.14	3.408		
1,600.00	1,599.73	1,599.64	1,599.57	4.92	4.93	164.11	25.49	15.05	38.31	28.46	9.85	3.889		
1,700.00	1,698.94	1,698.86	1,698.79	5.29	5.29	166.48	25.92	15.05	50.68	40.12	10.56	4.798		
1,800.00	1,797.33	1,797.33	1,797.26	5.67	5.64	168.48	26.33	14.98	68.26	56.99	11.27	6.055		
1,900.00	1,894.70	1,894.68	1,894.61	6.08	5.99	172.22	26.73	14.78	90.81	78.83	11.98	7.581		
2,000.00	1,991.28	1,994.68	1,994.58	6.51	6.34	173.64	27.13	12.88	115.28	102.60	12.68	9.090		
2,100.00	2,087.79	2,096.36	2,096.07	6.97	6.69	172.66	27.74	6.75	136.89	123.51	13.38	10.230		
2,200.00	2,184.34	2,195.62	2,194.93	7.44	7.04	171.27	28.79	-2.01	156.36	142.27	14.09	11.097		
2,300.00	2,280.85	2,293.79	2,292.67	7.92	7.39	169.89	29.98	-11.25	175.67	160.86	14.81	11.863		
2,400.00	2,377.21	2,392.12	2,390.55	8.42	7.75	168.60	31.03	-20.54	195.33	179.80	15.53	12.576		
2,500.00	2,473.49	2,490.24	2,488.24	8.93	8.06	168.29	31.81	-29.72	215.19	198.98	16.22	13.270		
2,600.00	2,569.80	2,588.58	2,586.15	9.44	8.21	168.07	32.31	-38.81	234.82	218.09	16.73	14.034		
2,700.00	2,666.14	2,686.56	2,683.71	9.78	8.24	170.03	32.62	-47.88	254.37	237.39	16.98	14.982		
2,800.00	2,762.55	2,784.84	2,781.59	9.97	8.29	159.55	32.77	-56.72	273.20	256.15	17.05	16.024		
2,900.00	2,859.09	2,882.75	2,879.14	10.18	8.36	159.61	32.53	-65.19	290.89	273.74	17.15	16.961		
3,000.00	2,955.88	2,980.89	2,976.94	10.42	8.44	161.23	32.00	-73.28	307.93	290.64	17.28	17.816		
3,100.00	3,052.13	3,079.36	3,075.08	10.69	8.54	162.51	31.30	-81.29	326.97	309.53	17.45	18.739		
3,200.00	3,148.25	3,176.57	3,171.98	10.99	8.65	164.67	30.50	-89.03	346.76	329.11	17.65	19.652		
3,300.00	3,244.63	3,274.54	3,269.66	11.31	8.78	167.01	29.51	-96.58	365.98	348.11	17.87	20.482		
3,400.00	3,341.36	3,372.67	3,367.51	11.63	8.91	168.85	28.24	-103.81	384.21	366.10	18.12	21.207		
3,500.00	3,438.41	3,473.15	3,467.70	11.96	9.07	175.39	26.44	-111.24	401.00	382.61	18.39	21.804		
3,600.00	3,534.80	3,570.75	3,565.00	12.30	9.23	-146.04	24.45	-118.63	418.94	400.24	18.70	22.403		
3,700.00	3,628.36	3,664.77	3,658.77	12.61	9.40	-130.37	21.76	-124.76	438.17	419.14	19.03	23.022		
3,800.00	3,717.75	3,752.17	3,745.94	12.91	9.56	-122.64	18.50	-130.22	458.75	439.36	19.39	23.655		
3,900.00	3,803.80	3,825.00	3,818.71	13.20	9.69	-120.61	16.92	-132.44	484.10	464.35	19.75	24.511		
4,000.00	3,885.98	3,895.90	3,889.61	13.51	9.81	-118.13	16.35	-132.83	514.97	494.85	20.13	25.586		
4,100.00	3,962.27	3,971.58	3,965.29	13.83	9.95	-114.56	15.92	-132.95	549.08	528.52	20.56	26.706		
4,200.00	4,031.66	4,048.17	4,041.87	14.17	10.09	-114.12	15.22	-132.87	586.72	565.67	21.05	27.869		
4,300.00	4,091.96	4,170.82	4,163.35	14.63	10.29	-119.06	3.30	-123.00	629.44	607.83	21.61	29.127		
4,400.00	4,146.16	4,291.08	4,277.79	15.25	10.48	-123.36	-22.97	-97.81	673.62	651.57	22.04	30.561		
4,500.00	4,191.72	4,461.62	4,424.51	16.08	10.76	-124.16	-79.96	-33.45	716.97	694.50	22.47	31.904		
4,600.00	4,223.73	4,793.58	4,618.93	17.14	13.04	-126.17	-268.61	151.65	734.31	709.89	24.42	30.073		
4,700.00	4,240.94	5,036.70	4,668.44	18.42	16.53	-125.51	-434.21	320.26	739.93	711.06	28.87	25.632		
4,800.00	4,246.89	5,160.40	4,668.07	19.92	18.69	-124.72	-520.65	408.69	740.15	707.78	32.37	22.867		
4,900.00	4,250.15	5,248.26	4,665.33	21.59	20.33	-124.11	-580.85	472.61	741.66	706.33	35.34	20.988		
5,000.00	4,251.53	5,359.89	4,663.82	23.37	22.51	-123.67	-658.34	552.94	743.78	704.82	38.95	19.095		
5,100.00	4,250.78	5,465.38	4,661.82	25.23	24.63	-123.59	-732.91	627.53	743.20	700.76	42.44	17.510		

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. 049H
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. 049H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole											Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD											Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
5,136.06	4,250.10	5,496.64	4,661.06	25.92	25.27	-123.59	-754.80	649.83	743.08	699.53	43.55	17.063
5,200.00	4,248.42	5,557.95	4,659.83	27.16	26.53	-123.62	-797.49	693.81	743.26	697.60	45.66	16.279
5,300.00	4,245.60	5,658.26	4,660.60	29.15	28.63	-123.92	-868.83	764.32	743.60	694.62	48.99	15.179
5,400.00	4,245.75	5,762.08	4,661.50	31.18	30.82	-123.95	-942.59	837.39	744.37	691.81	52.56	14.162
5,500.00	4,244.80	5,864.51	4,659.98	33.25	33.01	-123.87	-1,015.07	909.74	744.83	688.64	56.19	13.255
5,600.00	4,241.48	5,974.75	4,657.27	35.35	35.39	-123.87	-1,092.75	987.89	746.34	686.32	60.02	12.434
5,700.00	4,238.97	6,084.25	4,656.21	37.47	37.76	-124.02	-1,172.34	1,063.10	745.80	682.08	63.71	11.705
5,800.00	4,240.06	6,182.00	4,654.02	39.61	39.88	-123.87	-1,243.47	1,130.11	742.77	675.45	67.33	11.033
5,861.68	4,240.00	6,230.51	4,653.35	40.94	40.94	-123.87	-1,278.55	1,163.60	741.77	672.56	69.21	10.717
5,900.00	4,239.56	6,257.77	4,653.67	41.77	41.54	-123.91	-1,298.11	1,182.58	742.11	671.86	70.25	10.564
6,000.00	4,240.41	6,350.40	4,656.32	43.93	43.58	-124.04	-1,364.02	1,247.62	743.55	669.98	73.58	10.106
6,100.00	4,242.49	6,449.25	4,658.19	46.12	45.77	-123.97	-1,433.79	1,317.61	744.28	667.07	77.20	9.641
6,200.00	4,242.63	6,555.06	4,658.84	48.31	48.13	-123.91	-1,508.05	1,392.98	746.01	664.97	81.04	9.205
6,300.00	4,240.87	6,661.78	4,657.43	50.50	50.52	-123.84	-1,582.78	1,469.16	747.99	663.06	84.93	8.807
6,400.00	4,242.21	6,765.62	4,653.87	52.71	52.85	-123.42	-1,655.30	1,543.38	747.14	658.08	89.05	8.390
6,483.68	4,243.91	6,841.00	4,652.76	54.56	54.54	-123.21	-1,708.08	1,597.19	746.48	654.39	92.09	8.106
6,500.00	4,244.26	6,850.36	4,652.80	54.93	54.75	-123.19	-1,714.63	1,603.87	746.41	653.90	92.50	8.069
6,600.00	4,244.57	6,936.00	4,653.64	57.15	56.68	-123.15	-1,773.97	1,665.62	748.23	652.48	95.75	7.814
6,700.00	4,243.10	7,039.21	4,654.16	59.38	59.02	-123.13	-1,844.62	1,740.86	751.59	652.05	99.55	7.550
6,800.00	4,241.04	7,137.26	4,656.52	61.61	61.24	-123.41	-1,912.69	1,811.37	754.93	652.02	102.91	7.336
6,900.00	4,243.59	7,240.95	4,660.25	63.85	63.59	-123.46	-1,985.46	1,885.13	756.59	649.92	106.67	7.093
7,000.00	4,246.02	7,354.52	4,662.85	66.09	66.15	-123.38	-2,064.93	1,966.23	757.54	646.75	110.80	6.837
7,100.00	4,246.58	7,471.11	4,664.74	68.33	68.77	-123.61	-2,149.41	2,046.56	755.66	641.05	114.61	6.593
7,200.00	4,244.94	7,581.71	4,665.03	70.58	71.25	-123.91	-2,229.67	2,122.64	754.17	636.03	118.14	6.384
7,300.00	4,243.98	7,686.92	4,662.89	72.84	73.61	-123.92	-2,306.09	2,194.93	750.72	628.98	121.73	6.167
7,400.00	4,245.93	7,775.18	4,659.96	75.09	75.60	-123.71	-2,369.29	2,256.46	745.85	620.52	125.33	5.951
7,500.00	4,246.86	7,879.89	4,655.82	77.36	77.97	-123.52	-2,443.43	2,330.28	741.32	611.96	129.36	5.731
7,600.00	4,246.20	7,984.63	4,653.26	79.63	80.33	-123.70	-2,519.08	2,402.66	735.82	602.96	132.86	5.538
7,700.00	4,245.10	8,083.28	4,652.79	81.89	82.54	-123.80	-2,591.34	2,469.81	733.00	596.94	136.07	5.387
7,800.00	4,243.72	8,185.67	4,652.39	84.14	84.83	-123.96	-2,666.56	2,539.29	732.08	592.66	139.41	5.251
7,900.00	4,241.06	8,285.77	4,650.97	86.40	87.08	-124.15	-2,739.64	2,607.67	731.13	588.47	142.66	5.125
8,000.00	4,237.14	8,380.05	4,648.73	88.66	89.20	-124.34	-2,808.13	2,672.43	730.07	584.39	145.68	5.011
8,008.25	4,236.90	8,386.63	4,648.61	88.84	89.35	-124.34	-2,812.88	2,676.98	730.06	584.15	145.91	5.003
8,100.00	4,236.38	8,463.66	4,648.18	90.91	91.10	-124.29	-2,868.03	2,730.75	731.24	582.38	148.86	4.912
8,200.00	4,236.31	8,562.00	4,648.55	93.15	93.33	-124.22	-2,938.20	2,799.65	733.52	581.05	152.47	4.811
8,300.00	4,238.50	8,657.32	4,648.69	95.40	95.50	-123.95	-3,005.73	2,866.92	735.65	579.24	156.40	4.704
8,400.00	4,240.79	8,753.07	4,648.05	97.65	97.68	-123.55	-3,072.69	2,935.36	737.66	577.15	160.51	4.596
8,500.00	4,242.69	8,854.49	4,646.46	99.90	100.00	-123.13	-3,142.86	3,008.57	739.20	574.32	164.88	4.483
8,600.00	4,243.79	8,958.59	4,647.24	102.17	102.37	-123.07	-3,216.78	3,081.85	739.35	570.73	168.62	4.385
8,611.77	4,243.85	8,969.70	4,647.39	102.44	102.63	-123.08	-3,224.69	3,089.65	739.35	570.34	169.00	4.375
8,700.00	4,243.92	9,056.80	4,648.16	104.44	104.61	-123.14	-3,286.38	3,151.14	739.48	567.51	171.96	4.300
8,800.00	4,243.06	9,159.25	4,646.91	106.72	106.95	-123.08	-3,358.14	3,224.25	739.95	564.26	175.70	4.212
8,900.00	4,240.89	9,262.17	4,644.72	108.99	109.30	-123.07	-3,430.05	3,297.82	740.44	561.07	179.37	4.128
9,000.00	4,239.47	9,358.92	4,645.22	111.27	111.51	-123.21	-3,498.99	3,365.72	741.01	558.56	182.46	4.061
9,100.00	4,240.57	9,458.98	4,647.22	113.52	113.78	-123.21	-3,570.53	3,435.64	742.96	556.98	185.98	3.995
9,200.00	4,240.85	9,548.94	4,650.22	115.79	115.82	-123.33	-3,635.15	3,498.16	745.21	556.40	188.82	3.947
9,300.00	4,239.87	9,673.15	4,655.04	118.05	118.63	-123.73	-3,724.71	3,584.07	747.67	555.62	192.05	3.893
9,400.00	4,237.85	9,771.07	4,658.24	120.32	120.83	-124.19	-3,796.75	3,650.32	748.20	553.90	194.30	3.851
9,500.00	4,239.18	9,880.25	4,658.93	122.59	123.29	-124.22	-3,876.75	3,724.58	745.65	548.03	197.62	3.773
9,600.00	4,242.35	9,958.11	4,657.50	124.86	125.07	-123.95	-3,931.94	3,779.48	743.21	542.05	201.16	3.695
9,700.00	4,244.45	10,064.14	4,654.64	127.14	127.50	-123.56	-4,005.66	3,855.63	741.88	536.16	205.73	3.606
9,800.00	4,245.35	10,171.56	4,653.82	129.43	129.94	-123.56	-4,082.69	3,930.48	739.06	529.77	209.29	3.531

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. 049H
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. 049H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,900.00	4,244.68	10,281.57	4,655.19	131.71	132.43	-123.89	-4,162.18	4,006.50	737.40	525.34	212.05	3.477		
10,000.00	4,242.11	10,401.19	4,652.18	134.00	135.12	-124.34	-4,250.77	4,086.82	731.46	516.85	214.61	3.408		
10,100.00	4,238.56	10,491.66	4,650.07	136.29	137.15	-124.62	-4,317.61	4,147.75	726.21	509.68	216.53	3.354		
10,200.00	4,237.62	10,578.40	4,649.95	138.58	139.10	-124.76	-4,381.50	4,206.41	723.55	504.65	218.90	3.305		
10,300.00	4,235.83	10,690.61	4,650.40	140.86	141.63	-125.15	-4,463.66	4,282.82	721.78	500.53	221.25	3.262		
10,400.00	4,233.93	10,789.95	4,647.62	143.14	143.88	-125.20	-4,536.37	4,350.45	718.02	494.09	223.93	3.206		
10,500.00	4,235.79	10,875.51	4,646.24	145.42	145.81	-125.07	-4,598.60	4,409.16	714.13	487.02	227.11	3.144		
10,600.00	4,237.14	10,960.64	4,646.01	147.70	147.75	-125.03	-4,659.52	4,468.61	712.34	482.32	230.02	3.097		
10,612.12	4,237.16	10,971.00	4,645.97	147.98	147.99	-125.02	-4,666.82	4,475.96	712.32	481.96	230.36	3.092		
10,700.00	4,236.54	11,045.55	4,645.93	149.98	149.70	-125.01	-4,718.85	4,529.35	713.47	480.80	232.67	3.066		
10,800.00	4,234.34	11,155.01	4,646.98	152.25	152.21	-125.02	-4,794.76	4,608.21	718.42	482.16	236.26	3.041		
10,900.00	4,230.82	11,278.08	4,644.15	154.51	155.03	-124.88	-4,881.49	4,695.46	722.43	481.77	240.66	3.002		
11,000.00	4,226.15	11,357.89	4,642.60	156.78	156.86	-124.93	-4,937.89	4,751.91	725.95	482.89	243.06	2.987 SF		
11,100.00	4,219.99	11,447.52	4,643.06	158.96	158.91	-125.22	-5,000.71	4,815.84	731.40	486.66	244.74	2.988		
11,175.00	4,214.90	11,515.22	4,643.96	160.18	160.47	-125.50	-5,047.80	4,864.47	736.32	490.77	245.55	2.999		



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 049H
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. 049H	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, 2640-MWD, 12451-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	0.00	0.00	0.00	0.00	48.20	40.07	44.81	60.12					
100.00	100.00	99.87	99.87	0.13	0.17	110.93	40.27	44.79	60.25	59.95	0.30	198.916 ES		
200.00	200.00	199.73	199.73	0.31	0.34	110.66	40.84	44.72	60.66	60.01	0.65	93.235		
300.00	300.00	299.59	299.58	0.49	0.51	110.22	41.80	44.61	61.34	60.34	1.00	61.442		
400.00	400.00	399.44	399.42	0.67	0.67	109.61	43.14	44.46	62.30	60.96	1.35	46.280		
500.00	500.00	499.42	499.39	1.00	1.00	88.15	44.81	44.19	63.36	61.35	2.00	31.607		
600.00	600.00	599.40	599.36	1.36	1.36	113.40	46.60	43.80	64.41	61.69	2.72	23.669		
700.00	699.99	699.46	699.40	1.72	1.72	94.62	48.26	43.47	65.48	62.04	3.44	19.043		
800.00	799.99	799.57	799.49	2.08	2.08	91.58	49.83	43.03	66.30	62.14	4.16	15.954		
900.00	899.99	899.69	899.61	2.43	2.44	126.67	51.09	42.71	67.11	62.24	4.87	13.781		
1,000.00	999.99	999.91	999.82	2.78	2.80	162.63	52.06	42.25	67.68	62.10	5.58	12.133		
1,100.00	1,099.99	1,100.00	1,099.91	3.13	3.15	133.76	52.77	41.68	68.03	61.75	6.29	10.819		
1,200.00	1,199.99	1,200.00	1,199.91	3.49	3.51	101.16	53.34	41.23	68.32	61.32	7.00	9.756		
1,300.00	1,299.99	1,300.04	1,299.94	3.85	3.87	99.13	53.81	40.84	68.45	60.73	7.72	8.870		
1,400.00	1,399.99	1,400.20	1,400.10	4.21	4.22	142.32	54.16	40.42	68.60	60.17	8.43	8.138		
1,500.00	1,499.97	1,500.19	1,500.09	4.56	4.58	161.21	54.30	39.94	69.99	60.85	9.14	7.660		
1,600.00	1,599.73	1,597.21	1,597.09	4.92	4.92	162.10	55.46	40.43	77.58	67.75	9.83	7.890		
1,700.00	1,698.94	1,690.26	1,689.94	5.29	5.25	162.54	60.24	43.82	95.66	85.17	10.49	9.119		
1,800.00	1,797.33	1,780.76	1,779.78	5.67	5.57	162.77	68.99	50.35	124.32	113.20	11.12	11.180		
1,900.00	1,894.70	1,867.54	1,865.38	6.08	5.89	165.30	80.28	58.94	161.74	150.02	11.72	13.804		
2,000.00	1,991.28	1,950.06	1,946.18	6.51	6.21	166.58	93.37	69.36	205.83	193.56	12.27	16.771		
2,100.00	2,087.79	2,028.13	2,021.95	6.97	6.53	166.54	107.87	81.35	253.71	240.93	12.78	19.858		
2,200.00	2,184.34	2,101.89	2,092.68	7.44	6.84	166.49	123.63	95.09	305.25	292.02	13.23	23.077		
2,300.00	2,280.85	2,174.66	2,161.62	7.92	7.18	166.06	141.33	110.17	360.05	346.36	13.69	26.297		
2,400.00	2,377.21	2,251.25	2,233.55	8.42	7.55	165.26	161.61	126.94	417.23	402.99	14.24	29.308		
2,500.00	2,473.49	2,329.21	2,306.47	8.93	7.95	165.34	182.83	144.54	475.50	460.68	14.82	32.095		
2,600.00	2,569.80	2,413.19	2,384.93	9.44	8.40	165.39	205.88	163.64	533.89	518.42	15.48	34.493		
2,700.00	2,666.14	2,503.27	2,469.41	9.78	8.89	167.73	230.92	182.39	591.29	575.14	16.15	36.606		
2,800.00	2,762.55	2,592.92	2,553.82	9.97	9.33	155.76	255.49	199.93	646.84	630.32	16.53	39.137		
2,900.00	2,859.09	2,679.48	2,635.54	10.18	9.60	155.28	278.81	216.40	700.66	683.95	16.71	41.920		
3,000.00	2,955.88	2,765.01	2,716.34	10.42	9.81	156.50	301.52	232.88	753.73	736.90	16.83	44.788		
3,100.00	3,052.13	2,853.27	2,799.75	10.69	10.06	156.98	325.33	249.18	808.17	791.16	17.01	47.518		
3,200.00	3,148.25	2,967.15	2,907.86	10.99	10.40	158.82	355.66	268.07	861.84	844.48	17.36	49.646		
3,300.00	3,244.63	3,089.17	3,024.82	11.31	10.76	160.75	387.02	283.03	911.46	893.70	17.76	51.316		
3,400.00	3,341.36	3,246.93	3,178.05	11.63	11.20	162.08	422.23	295.57	955.28	936.96	18.32	52.155		
3,500.00	3,438.41	3,476.11	3,405.33	11.96	11.64	168.74	448.60	303.77	988.42	969.47	18.96	52.136		
3,600.00	3,534.80	3,611.11	3,540.29	12.30	11.79	-150.81	450.66	303.13	1,014.41	995.15	19.26	52.663		
3,700.00	3,628.36	3,703.91	3,633.09	12.61	11.89	-132.31	450.38	302.58	1,041.24	1,021.78	19.47	53.483		
3,800.00	3,717.75	3,780.67	3,709.69	12.91	11.96	-121.01	447.13	305.81	1,069.34	1,049.70	19.64	54.446		
3,900.00	3,803.80	3,859.20	3,787.29	13.20	12.05	-116.15	439.60	314.97	1,097.91	1,078.08	19.83	55.364		
4,000.00	3,885.98	3,949.94	3,875.30	13.51	12.15	-111.08	425.44	331.76	1,126.12	1,106.03	20.09	56.041		
4,100.00	3,962.27	4,048.60	3,967.47	13.83	12.28	-104.84	402.35	357.98	1,151.14	1,130.66	20.48	56.214		
4,200.00	4,031.66	4,155.90	4,059.64	14.17	12.45	-101.65	365.70	398.46	1,171.53	1,150.42	21.10	55.513		
4,300.00	4,091.96	4,294.45	4,161.16	14.63	12.76	-101.18	301.21	466.60	1,190.13	1,167.84	22.28	53.408		
4,400.00	4,146.16	4,384.96	4,214.54	15.25	13.10	-100.33	250.60	519.19	1,208.01	1,184.28	23.73	50.907		
4,500.00	4,191.72	4,538.25	4,275.37	16.08	14.24	-97.03	154.54	621.20	1,224.30	1,197.83	26.47	46.253		
4,600.00	4,223.73	4,695.08	4,291.95	17.14	16.20	-93.50	43.79	730.04	1,229.86	1,199.61	30.25	40.655		
4,700.00	4,240.94	4,786.04	4,287.67	18.42	17.60	-92.27	-21.55	793.18	1,230.78	1,197.47	33.31	36.944		
4,800.00	4,246.89	4,882.86	4,283.36	19.92	19.25	-91.74	-90.92	860.58	1,232.70	1,195.91	36.79	33.503		
4,900.00	4,250.15	4,974.60	4,279.32	21.59	20.91	-91.38	-156.30	924.80	1,234.81	1,194.44	40.37	30.586		
5,000.00	4,251.53	5,071.51	4,274.13	23.37	22.76	-91.05	-225.11	992.85	1,236.67	1,192.47	44.20	27.978		
5,100.00	4,250.78	5,161.10	4,271.50	25.23	24.53	-90.96	-288.42	1,056.18	1,236.73	1,188.74	47.99	25.769		

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. 049H
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. 049H	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, 2640-MWD, 12451-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	4,248.42	5,252.12	4,269.98	27.16	26.38	-91.01	-352.28	1,121.01	1,236.16	1,184.25	51.91	23.812	
5,224.39	4,247.72	5,273.94	4,269.60	27.64	26.83	-91.01	-367.53	1,136.63	1,236.08	1,183.21	52.87	23.378	
5,300.00	4,245.60	5,341.86	4,268.43	29.15	28.25	-91.05	-414.74	1,185.43	1,236.32	1,180.46	55.87	22.129	
5,400.00	4,245.75	5,462.20	4,266.64	31.18	30.79	-90.97	-498.10	1,272.20	1,239.38	1,178.77	60.60	20.451	
5,500.00	4,244.80	5,613.91	4,265.46	33.25	33.98	-90.99	-608.47	1,376.27	1,236.87	1,170.83	66.04	18.729	
5,600.00	4,241.48	5,718.30	4,264.95	35.35	36.19	-91.18	-685.21	1,447.03	1,233.77	1,163.33	70.43	17.516	
5,700.00	4,238.97	5,823.32	4,264.02	37.47	38.42	-91.15	-762.77	1,517.83	1,230.39	1,155.52	74.87	16.435	
5,800.00	4,240.06	5,912.64	4,262.72	39.61	40.34	-91.05	-828.58	1,578.21	1,227.62	1,148.63	78.99	15.542	
5,900.00	4,239.56	5,995.00	4,261.28	41.77	42.12	-91.03	-888.44	1,634.76	1,225.79	1,142.82	82.97	14.773	
6,000.00	4,240.41	6,079.34	4,259.28	43.93	43.97	-90.88	-948.92	1,693.50	1,225.31	1,138.29	87.02	14.081	
6,008.60	4,240.66	6,088.00	4,259.03	44.12	44.16	-90.86	-955.11	1,699.56	1,225.30	1,137.90	87.40	14.020	
6,100.00	4,242.49	6,163.25	4,256.33	46.12	45.83	-90.65	-1,008.47	1,752.55	1,225.68	1,134.62	91.06	13.460	
6,200.00	4,242.63	6,250.75	4,253.48	48.31	47.77	-90.49	-1,069.80	1,814.88	1,227.47	1,132.28	95.19	12.895	
6,300.00	4,240.87	6,344.40	4,252.69	50.50	49.87	-90.53	-1,134.97	1,882.14	1,230.17	1,130.68	99.49	12.365	
6,400.00	4,242.21	6,441.12	4,250.98	52.71	52.05	-90.45	-1,202.03	1,951.81	1,233.06	1,129.17	103.89	11.869	
6,500.00	4,244.26	6,583.09	4,250.57	54.93	55.23	-90.28	-1,302.10	2,052.46	1,233.65	1,124.21	109.44	11.272	
6,600.00	4,244.57	6,678.02	4,252.58	57.15	57.35	-90.38	-1,369.97	2,118.81	1,232.29	1,118.49	113.81	10.828	
6,700.00	4,243.10	6,777.97	4,253.77	59.38	59.58	-90.52	-1,441.33	2,188.77	1,230.92	1,112.61	118.30	10.405	
6,800.00	4,241.04	6,878.57	4,253.76	61.61	61.84	-90.59	-1,513.14	2,259.22	1,229.27	1,106.45	122.82	10.009	
6,900.00	4,243.59	6,986.42	4,253.41	63.85	64.25	-90.44	-1,590.34	2,334.54	1,228.65	1,101.14	127.51	9.636	
7,000.00	4,246.02	7,078.58	4,254.93	66.09	66.32	-90.40	-1,666.62	2,398.57	1,227.07	1,095.25	131.83	9.308	
7,084.08	4,246.58	7,145.83	4,256.12	67.98	67.84	-90.45	-1,704.31	2,445.96	1,226.61	1,091.41	135.21	9.072	
7,100.00	4,246.58	7,159.02	4,256.35	68.33	68.13	-90.46	-1,713.59	2,455.32	1,226.57	1,090.72	135.85	9.029	
7,200.00	4,244.94	7,240.28	4,257.81	70.58	69.98	-90.58	-1,770.31	2,513.50	1,227.46	1,087.58	139.88	8.775	
7,300.00	4,243.98	7,329.43	4,259.29	72.84	72.01	-90.73	-1,831.41	2,578.39	1,229.79	1,085.68	144.11	8.534	
7,400.00	4,245.93	7,468.22	4,257.89	75.09	75.16	-90.54	-1,929.09	2,677.00	1,228.89	1,079.17	149.72	8.208	
7,500.00	4,246.86	7,552.33	4,256.05	77.36	77.07	-90.43	-1,988.30	2,736.67	1,227.25	1,073.39	153.86	7.976	
7,600.00	4,246.20	7,715.92	4,252.89	79.63	80.77	-90.38	-2,104.85	2,851.37	1,223.66	1,063.76	159.90	7.653	
7,700.00	4,245.10	7,809.04	4,250.73	81.89	82.85	-90.27	-2,173.36	2,914.40	1,219.39	1,055.11	164.28	7.423	
7,755.14	4,244.44	7,847.22	4,250.36	83.13	83.70	-90.28	-2,201.11	2,940.63	1,219.09	1,052.69	166.40	7.326	
7,800.00	4,243.72	7,878.00	4,250.53	84.14	84.40	-90.31	-2,223.21	2,962.04	1,219.32	1,051.22	168.10	7.254	
7,900.00	4,241.06	7,972.00	4,251.48	86.40	86.52	-90.48	-2,290.26	3,027.91	1,219.81	1,047.33	172.48	7.072	
7,911.20	4,240.68	7,985.33	4,251.57	86.65	86.83	-90.51	-2,299.76	3,037.27	1,219.82	1,046.78	173.04	7.049	
8,000.00	4,237.14	8,066.00	4,251.46	88.66	88.66	-90.65	-2,357.00	3,094.11	1,219.89	1,043.03	176.86	6.898	
8,100.00	4,236.38	8,161.00	4,250.22	90.91	90.82	-90.65	-2,424.09	3,161.35	1,222.73	1,041.47	181.26	6.746	
8,200.00	4,236.31	8,258.95	4,247.91	93.15	93.05	-90.56	-2,492.99	3,230.94	1,226.57	1,040.83	185.74	6.604	
8,300.00	4,238.50	8,395.20	4,248.78	95.40	96.13	-90.50	-2,590.71	3,325.84	1,229.04	1,037.90	191.13	6.430	
8,400.00	4,240.79	8,489.41	4,250.45	97.65	98.26	-90.46	-2,658.79	3,390.94	1,230.10	1,034.58	195.52	6.292	
8,500.00	4,242.69	8,570.46	4,251.00	99.90	100.09	-90.40	-2,716.90	3,447.44	1,230.72	1,031.13	199.59	6.166	
8,600.00	4,243.79	8,632.00	4,251.22	102.17	101.50	-90.36	-2,760.11	3,491.26	1,232.46	1,029.42	203.04	6.070	
8,700.00	4,243.92	8,727.00	4,251.50	104.44	103.68	-90.35	-2,825.39	3,560.27	1,235.10	1,027.64	207.46	5.953	
8,800.00	4,243.06	8,841.62	4,252.82	106.72	106.32	-90.44	-2,904.28	3,643.40	1,237.62	1,025.12	212.50	5.824	
8,900.00	4,240.89	8,994.68	4,254.39	108.99	109.82	-90.68	-3,011.28	3,752.83	1,238.88	1,020.45	218.44	5.672	
8,994.89	4,239.83	9,086.32	4,255.25	111.15	111.89	-90.72	-3,077.81	3,815.82	1,236.81	1,014.13	222.67	5.554	
9,000.00	4,239.47	9,090.53	4,255.29	111.27	111.98	-90.74	-3,080.85	3,818.75	1,236.41	1,013.52	222.89	5.547	
9,100.00	4,240.57	9,183.61	4,256.30	113.52	114.09	-90.74	-3,147.74	3,883.46	1,237.63	1,010.37	227.26	5.446	
9,200.00	4,240.85	9,276.65	4,257.19	115.79	116.20	-90.75	-3,214.30	3,948.47	1,238.78	1,007.15	231.63	5.348	
9,300.00	4,239.87	9,389.15	4,257.93	118.05	118.76	-90.84	-3,294.83	4,027.01	1,239.17	1,002.71	236.46	5.241	
9,323.89	4,239.50	9,404.90	4,258.01	118.60	119.12	-90.85	-3,306.14	4,037.98	1,239.14	1,001.78	237.36	5.221	
9,400.00	4,237.85	9,455.26	4,258.26	120.32	120.27	-90.92	-3,341.82	4,073.52	1,239.97	999.82	240.14	5.163	
9,500.00	4,239.18	9,620.78	4,257.98	122.59	124.02	-90.80	-3,460.81	4,188.50	1,239.45	993.30	246.15	5.035	
9,600.00	4,242.35	9,716.61	4,256.72	124.86	126.17	-90.61	-3,531.35	4,253.35	1,235.90	985.29	250.62	4.931	

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. 049H
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. 049H	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, 2640-MWD, 12451-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	4,244.45	9,807.41	4,254.36	127.14	128.21	-90.43	-3,597.97	4,315.00	1,231.99	976.98	255.00	4.831	
9,800.00	4,245.35	9,895.49	4,251.47	129.43	130.20	-90.28	-3,661.89	4,375.53	1,228.41	969.08	259.33	4.737	
9,900.00	4,244.68	9,990.56	4,250.99	131.71	132.35	-90.33	-3,730.59	4,441.25	1,225.01	961.23	263.78	4.644	
10,000.00	4,242.11	10,077.51	4,250.71	134.00	134.33	-90.48	-3,793.09	4,501.70	1,221.35	953.30	268.05	4.556	
10,099.95	4,239.30	10,154.79	4,250.14	136.29	136.09	-90.51	-3,847.69	4,556.37	1,219.60	947.59	272.01	4.484	
10,100.00	4,238.56	10,154.81	4,250.14	136.29	136.09	-90.54	-3,847.71	4,556.39	1,218.82	946.81	272.01	4.481	
10,200.00	4,237.62	10,245.62	4,248.60	138.58	138.18	-90.50	-3,910.94	4,621.55	1,220.78	944.48	276.30	4.418	
10,300.00	4,235.83	10,387.63	4,249.16	140.86	141.41	-90.66	-4,012.26	4,721.02	1,219.34	937.35	282.00	4.324	
10,400.00	4,233.93	10,472.98	4,249.58	143.14	143.35	-90.74	-4,073.40	4,780.56	1,217.71	931.51	286.20	4.255	
10,414.05	4,234.03	10,484.23	4,249.61	143.46	143.61	-90.73	-4,081.40	4,788.49	1,217.70	930.92	286.77	4.246	
10,500.00	4,235.79	10,555.42	4,249.62	145.42	145.24	-90.67	-4,131.57	4,838.98	1,218.47	928.18	290.29	4.197	
10,600.00	4,237.14	10,644.43	4,248.75	147.70	147.28	-90.55	-4,193.60	4,902.80	1,220.03	925.50	294.53	4.142	
10,700.00	4,236.54	10,763.26	4,246.74	149.98	150.01	-90.48	-4,276.32	4,988.10	1,221.50	921.80	299.69	4.076	
10,800.00	4,234.34	10,869.95	4,247.77	152.25	152.45	-90.56	-4,352.20	5,063.08	1,222.73	918.31	304.42	4.017	
10,900.00	4,230.82	10,960.22	4,247.85	154.51	154.51	-90.71	-4,415.98	5,126.97	1,226.64	917.96	308.68	3.974	
11,000.00	4,226.15	11,049.15	4,246.63	156.78	156.55	-90.86	-4,478.29	5,190.40	1,229.94	917.05	312.89	3.931	
11,100.00	4,219.99	11,186.77	4,245.34	158.96	159.70	-91.22	-4,575.14	5,288.14	1,231.84	913.49	318.34	3.870	
11,148.48	4,216.70	11,224.03	4,245.79	159.75	160.55	-91.36	-4,601.78	5,314.18	1,231.68	911.73	319.95	3.850	
11,175.00	4,214.90	11,246.07	4,246.03	160.18	161.06	-91.44	-4,617.47	5,329.66	1,231.73	910.87	320.85	3.839 SF	



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 049H
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. 049H	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, 2789-MWD, 13558-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	48.37	53.19	59.85	80.07				
100.00	100.00	100.06	100.06	0.13	0.17	111.18	53.23	59.77	80.06	79.76	0.30	264.236	
200.00	200.00	200.11	200.11	0.31	0.34	111.13	53.35	59.52	80.03	79.38	0.65	122.974	
300.00	300.00	300.17	300.16	0.49	0.51	111.04	53.56	59.10	79.98	78.98	1.00	80.092	
400.00	400.00	400.22	400.22	0.67	0.67	110.93	53.85	58.52	79.90	78.56	1.35	59.349	
500.00	500.00	500.21	500.20	1.00	1.01	89.95	54.36	57.69	79.75	77.74	2.01	39.754	
600.00	600.00	600.19	600.17	1.36	1.36	115.61	55.10	56.69	79.60	76.88	2.72	29.239	
700.00	699.99	700.12	700.09	1.72	1.72	97.02	55.97	55.64	79.56	76.12	3.44	23.136	
800.00	799.99	800.09	800.06	2.08	2.08	94.21	56.83	54.73	79.52	75.36	4.16	19.137	
900.00	899.99	900.23	900.19	2.43	2.44	129.39	57.49	53.80	79.44	74.57	4.87	16.315	
989.30	989.29	989.47	989.43	2.74	2.75	160.64	57.80	53.22	79.40	73.91	5.50	14.448	
1,000.00	999.99	1,000.16	1,000.12	2.78	2.79	165.76	57.76	53.23	79.39	73.82	5.57	14.254 CC	
1,100.00	1,099.99	1,100.09	1,100.02	3.13	3.13	138.94	56.37	54.45	79.52	73.26	6.26	12.709	
1,200.00	1,199.99	1,200.20	1,200.10	3.49	3.46	108.98	54.20	56.36	79.65	72.71	6.95	11.469	
1,280.62	1,280.61	1,280.81	1,280.67	3.78	3.73	109.48	52.23	57.84	79.62	72.12	7.50	10.609	
1,300.00	1,299.99	1,300.14	1,299.99	3.85	3.79	109.59	51.78	58.20	79.61	71.97	7.64	10.421 ES	
1,400.00	1,399.99	1,398.89	1,398.70	4.21	4.13	155.09	50.01	60.29	80.42	72.08	8.33	9.651	
1,500.00	1,499.97	1,497.31	1,497.07	4.56	4.47	175.22	50.07	63.36	84.68	75.66	9.02	9.385 SF	
1,600.00	1,599.73	1,595.05	1,594.71	4.92	4.81	175.32	52.36	66.89	95.63	85.92	9.71	9.845	
1,700.00	1,698.94	1,689.32	1,688.73	5.29	5.14	173.55	57.72	71.04	114.83	104.45	10.38	11.060	
1,800.00	1,797.33	1,778.73	1,777.51	5.67	5.46	171.60	66.18	77.36	143.45	132.44	11.01	13.032	
1,900.00	1,894.70	1,863.03	1,860.61	6.08	5.77	172.71	76.78	86.64	181.59	170.01	11.58	15.681	
2,000.00	1,991.28	1,943.39	1,939.11	6.51	6.08	172.93	89.33	98.37	227.03	214.91	12.11	18.739	
2,100.00	2,087.79	2,020.52	2,013.72	6.97	6.39	172.00	103.79	111.52	276.22	263.61	12.61	21.909	
2,200.00	2,184.34	2,087.00	2,077.29	7.44	6.68	171.19	118.36	124.36	328.79	315.82	12.97	25.352	
2,300.00	2,280.85	2,162.85	2,148.80	7.92	7.03	169.99	138.02	140.24	384.64	371.15	13.49	28.517	
2,400.00	2,377.21	2,234.30	2,215.17	8.42	7.39	168.42	159.34	155.88	443.59	429.62	13.97	31.758	
2,500.00	2,473.49	2,308.39	2,283.50	8.93	7.78	167.80	182.57	172.66	504.15	489.64	14.50	34.761	
2,600.00	2,569.80	2,386.22	2,355.10	9.44	8.21	167.29	207.16	190.70	565.11	550.01	15.10	37.430	
2,700.00	2,666.14	2,468.03	2,430.46	9.78	8.68	169.41	232.59	209.89	626.03	610.33	15.70	39.883	
2,800.00	2,762.55	2,555.10	2,510.93	9.97	9.20	157.09	258.99	230.07	685.64	669.50	16.14	42.487	
2,900.00	2,859.09	2,641.17	2,590.76	10.18	9.71	156.49	284.67	249.50	743.54	726.96	16.57	44.864	
3,000.00	2,955.88	2,728.43	2,671.87	10.42	10.09	157.59	310.41	268.78	800.23	783.37	16.87	47.448	
3,100.00	3,052.13	2,817.81	2,755.18	10.69	10.45	158.02	336.38	288.09	858.01	840.86	17.15	50.033	
3,200.00	3,148.25	2,914.24	2,845.49	10.99	10.74	159.85	363.99	307.66	915.18	897.80	17.38	52.656	
3,300.00	3,244.63	3,010.28	2,935.91	11.31	11.05	162.02	390.60	326.04	970.55	952.92	17.63	55.066	
3,400.00	3,341.36	3,094.45	3,015.33	11.63	11.34	163.66	414.06	341.10	1,024.30	1,006.47	17.83	57.459	
3,500.00	3,438.41	3,166.00	3,082.63	11.96	11.60	170.63	433.93	355.06	1,078.15	1,060.18	17.98	59.969	
3,600.00	3,534.80	3,245.00	3,156.80	12.30	11.91	-144.78	455.75	371.30	1,134.40	1,116.21	18.19	62.377	
3,700.00	3,628.36	3,332.04	3,238.66	12.61	12.26	-123.44	479.81	388.51	1,190.47	1,172.05	18.41	64.649	
3,800.00	3,717.75	3,409.27	3,311.45	12.91	12.59	-110.39	500.97	403.29	1,245.13	1,226.53	18.60	66.953	
3,900.00	3,803.80	3,499.40	3,396.66	13.20	12.97	-105.75	524.36	421.06	1,298.06	1,279.18	18.88	68.758	

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. 049H
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. 049H	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		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		
11,100.00	4,219.99	4,143.00	4,116.56	158.96	11.20	-84.42	-5,631.71	5,650.22	1,271.91	1,167.27	104.64	12.156		
11,175.00	4,214.90	4,143.00	4,116.56	160.18	11.20	-84.42	-5,631.71	5,650.22	1,212.17	1,102.06	110.11	11.008 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. 049H
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. 049H	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		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			
10,400.00	4,233.93	4,344.87	4,028.99	143.14	24.89	43.39	-5,953.58	4,597.64	1,254.96	1,207.25	47.71	26.304			
10,500.00	4,235.79	4,348.13	4,031.89	145.42	24.91	41.81	-5,954.82	4,596.83	1,159.37	1,109.90	49.47	23.437			
10,600.00	4,237.14	4,351.61	4,034.98	147.70	24.93	45.01	-5,956.17	4,595.98	1,064.52	1,012.88	51.63	20.617			
10,700.00	4,236.54	4,363.00	4,045.09	149.98	25.00	49.04	-5,960.70	4,593.33	970.35	915.81	54.55	17.790			
10,800.00	4,234.34	4,363.00	4,045.09	152.25	25.00	46.11	-5,960.70	4,593.33	876.30	818.83	57.47	15.247			
10,900.00	4,230.82	4,363.00	4,045.09	154.51	25.00	48.53	-5,960.70	4,593.33	782.82	721.98	60.84	12.867			
11,000.00	4,226.15	4,363.00	4,045.09	156.78	25.00	50.94	-5,960.70	4,593.33	691.29	625.94	65.35	10.578			
11,100.00	4,219.99	4,371.50	4,052.61	158.96	25.05	54.52	-5,964.21	4,591.47	602.36	530.01	72.35	8.326			
11,175.00	4,214.90	4,375.00	4,055.70	160.18	25.07	55.19	-5,965.67	4,590.73	538.19	458.26	79.93	6.733	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. 049H
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. 049H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 5231-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	3.00	3.00	0.00	0.01	-12.09	157.60	-33.74	161.17				
100.00	100.00	102.87	102.87	0.13	0.17	50.71	157.61	-33.88	161.17	160.86	0.31	524.572	
200.00	200.00	202.75	202.75	0.31	0.34	50.62	157.64	-34.29	161.16	160.50	0.65	246.322	
300.00	300.00	302.62	302.62	0.49	0.51	50.49	157.70	-34.96	161.14	160.14	1.00	160.936	
400.00	400.00	402.50	402.49	0.67	0.68	50.29	157.77	-35.90	161.12	159.77	1.35	119.498	
500.00	500.00	502.39	502.38	1.00	0.98	29.30	157.84	-37.17	161.06	159.08	1.98	81.400	
529.25	529.24	531.58	531.56	1.11	1.08	36.18	157.93	-37.34	161.04	158.86	2.18	73.756	
600.00	600.00	602.31	602.28	1.36	1.32	55.91	158.47	-36.42	161.12	158.44	2.68	60.158	
700.00	699.99	702.69	702.63	1.72	1.66	38.95	159.28	-33.97	161.01	157.63	3.38	47.686	
800.00	799.99	802.71	802.61	2.08	2.00	37.72	160.03	-31.45	160.86	156.78	4.08	39.423	
870.60	870.59	873.45	873.34	2.33	2.25	60.16	160.41	-29.98	160.81	156.23	4.58	35.124 CC	
900.00	899.99	902.79	902.67	2.43	2.35	74.29	160.56	-29.45	160.81	156.03	4.79	33.603	
1,000.00	999.99	1,002.57	1,002.44	2.78	2.71	111.70	161.09	-27.84	161.13	155.65	5.49	29.365	
1,100.00	1,099.99	1,102.45	1,102.28	3.13	3.06	84.36	161.81	-25.63	161.55	155.36	6.19	26.079 ES	
1,200.00	1,199.99	1,200.24	1,199.86	3.49	3.41	54.48	163.50	-19.43	162.42	155.52	6.90	23.527	
1,300.00	1,299.99	1,297.50	1,296.34	3.85	3.78	56.85	167.07	-7.85	165.14	157.52	7.62	21.670	
1,400.00	1,399.99	1,393.95	1,391.24	4.21	4.15	105.97	171.72	8.69	170.45	162.11	8.34	20.426	
1,500.00	1,499.97	1,488.29	1,483.02	4.56	4.55	131.63	177.01	29.79	180.33	171.26	9.07	19.892 SF	
1,600.00	1,599.73	1,578.85	1,569.93	4.92	4.98	139.07	182.54	54.60	198.79	189.03	9.76	20.364	
1,700.00	1,698.94	1,662.25	1,648.85	5.29	5.41	145.12	188.28	80.95	228.24	217.86	10.38	21.981	
1,800.00	1,797.33	1,740.09	1,721.37	5.67	5.85	150.06	194.81	108.43	269.05	258.11	10.94	24.599	
1,900.00	1,894.70	1,815.30	1,790.42	6.08	6.32	156.81	201.66	137.45	319.72	308.24	11.47	27.871	
2,000.00	1,991.28	1,892.46	1,860.88	6.51	6.83	162.11	208.56	168.13	376.21	364.16	12.05	31.228	
2,100.00	2,087.79	1,967.72	1,929.42	6.97	7.34	165.32	215.27	198.48	434.94	422.33	12.60	34.509	
2,200.00	2,184.34	2,045.47	2,000.11	7.44	7.90	167.93	222.17	230.11	494.80	481.60	13.20	37.485	
2,300.00	2,280.85	2,123.19	2,070.78	7.92	8.47	169.80	228.86	261.77	555.47	541.66	13.81	40.230	
2,400.00	2,377.21	2,200.28	2,140.88	8.42	9.04	170.94	235.46	293.14	617.05	602.63	14.42	42.796	
2,500.00	2,473.49	2,276.47	2,210.17	8.93	9.62	172.62	241.99	324.15	679.28	664.26	15.03	45.204	
2,600.00	2,569.80	2,350.55	2,277.43	9.44	10.19	173.99	248.22	354.55	741.92	726.31	15.62	47.509	
2,700.00	2,666.14	2,425.96	2,345.81	9.78	10.78	177.76	254.53	385.73	804.99	788.80	16.18	49.740	
2,800.00	2,762.55	2,506.00	2,418.41	9.97	11.40	166.52	261.25	418.76	867.80	851.22	16.58	52.344	
2,900.00	2,859.09	2,592.42	2,497.07	10.18	12.08	167.05	268.40	453.82	929.59	912.55	17.04	54.562	
3,000.00	2,955.88	2,680.69	2,577.88	10.42	12.67	169.21	275.79	488.54	989.95	972.53	17.42	56.822	
3,100.00	3,052.13	2,763.53	2,653.94	10.69	13.01	170.66	282.41	520.69	1,051.58	1,034.03	17.55	59.906	
3,200.00	3,148.25	2,848.32	2,732.03	10.99	13.36	173.23	289.54	552.96	1,113.38	1,095.68	17.70	62.916	
3,300.00	3,244.63	2,941.22	2,817.96	11.31	13.75	176.04	297.90	587.25	1,173.92	1,156.02	17.89	65.605	
3,400.00	3,341.36	3,016.81	2,888.22	11.63	14.09	178.14	305.08	614.20	1,232.68	1,214.64	18.04	68.345	
3,500.00	3,438.41	3,066.00	2,933.57	11.96	14.32	-174.46	309.98	632.61	1,291.97	1,273.89	18.08	71.454	

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. 049H
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. 049H	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												Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		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	-12.09	157.60	-33.74	161.17				
100.00	100.00	102.87	102.87	0.13	0.17	50.71	157.61	-33.88	161.17	160.86	0.31	524.572	
200.00	200.00	202.75	202.75	0.31	0.34	50.62	157.64	-34.29	161.16	160.50	0.65	246.322	
300.00	300.00	302.62	302.62	0.49	0.51	50.49	157.70	-34.96	161.14	160.14	1.00	160.936	
400.00	400.00	402.50	402.49	0.67	0.68	50.29	157.77	-35.90	161.12	159.77	1.35	119.498	
500.00	500.00	502.39	502.38	1.00	0.98	29.30	157.84	-37.17	161.06	159.08	1.98	81.400	
529.25	529.24	531.58	531.56	1.11	1.08	36.18	157.93	-37.34	161.04	158.86	2.18	73.756	
600.00	600.00	602.31	602.28	1.36	1.32	55.91	158.47	-36.42	161.12	158.44	2.68	60.158	
700.00	699.99	702.69	702.63	1.72	1.66	38.95	159.28	-33.97	161.01	157.63	3.38	47.686	
800.00	799.99	802.71	802.61	2.08	2.00	37.72	160.03	-31.45	160.86	156.78	4.08	39.423	
870.60	870.59	873.45	873.34	2.33	2.25	60.16	160.41	-29.98	160.81	156.23	4.58	35.124 CC	
900.00	899.99	902.79	902.67	2.43	2.35	74.29	160.56	-29.45	160.81	156.03	4.79	33.603	
1,000.00	999.99	1,002.57	1,002.44	2.78	2.71	111.70	161.09	-27.84	161.13	155.65	5.49	29.365	
1,100.00	1,099.99	1,102.45	1,102.28	3.13	3.06	84.36	161.81	-25.63	161.55	155.36	6.19	26.079 ES	
1,200.00	1,199.99	1,200.24	1,199.86	3.49	3.41	54.48	163.50	-19.43	162.42	155.52	6.90	23.527	
1,300.00	1,299.99	1,297.50	1,296.34	3.85	3.78	56.85	167.07	-7.85	165.14	157.52	7.62	21.670	
1,400.00	1,399.99	1,393.95	1,391.24	4.21	4.15	105.97	171.72	8.69	170.45	162.11	8.34	20.426	
1,500.00	1,499.97	1,488.29	1,483.02	4.56	4.55	131.63	177.01	29.79	180.33	171.26	9.07	19.892 SF	
1,600.00	1,599.73	1,578.85	1,569.93	4.92	4.98	139.07	182.54	54.60	198.79	189.03	9.76	20.364	
1,700.00	1,698.94	1,662.25	1,648.85	5.29	5.41	145.12	188.28	80.95	228.24	217.86	10.38	21.981	
1,800.00	1,797.33	1,740.09	1,721.37	5.67	5.85	150.06	194.81	108.43	269.05	258.11	10.94	24.599	
1,900.00	1,894.70	1,815.30	1,790.42	6.08	6.32	156.81	201.66	137.45	319.72	308.24	11.47	27.871	
2,000.00	1,991.28	1,892.46	1,860.88	6.51	6.83	162.11	208.56	168.13	376.21	364.16	12.05	31.228	
2,100.00	2,087.79	1,967.72	1,929.42	6.97	7.35	165.32	215.27	198.48	434.94	422.33	12.60	34.509	
2,200.00	2,184.34	2,045.47	2,000.11	7.44	7.90	167.93	222.17	230.11	494.80	481.60	13.20	37.485	
2,300.00	2,280.85	2,123.19	2,070.78	7.92	8.47	169.80	228.86	261.77	555.47	541.66	13.81	40.230	
2,400.00	2,377.21	2,200.28	2,140.88	8.42	9.04	170.94	235.46	293.14	617.05	602.63	14.42	42.796	
2,500.00	2,473.49	2,276.47	2,210.17	8.93	9.62	172.62	241.99	324.15	679.28	664.26	15.03	45.203	
2,600.00	2,569.80	2,350.55	2,277.43	9.44	10.19	173.99	248.22	354.55	741.92	726.31	15.62	47.509	
2,700.00	2,666.14	2,425.96	2,345.81	9.78	10.78	177.76	254.53	385.73	804.99	788.80	16.18	49.739	
2,800.00	2,762.55	2,506.00	2,418.41	9.97	11.40	166.52	261.25	418.76	867.80	851.22	16.58	52.344	
2,900.00	2,859.09	2,592.42	2,497.07	10.18	12.08	167.05	268.40	453.82	929.59	912.55	17.04	54.562	
3,000.00	2,955.88	2,680.69	2,577.88	10.42	12.67	169.21	275.79	488.54	989.95	972.53	17.42	56.822	
3,100.00	3,052.13	2,763.53	2,653.94	10.69	13.01	170.66	282.41	520.69	1,051.58	1,034.03	17.55	59.906	
3,200.00	3,148.25	2,848.32	2,732.03	10.99	13.36	173.23	289.54	552.96	1,113.38	1,095.68	17.70	62.916	
3,300.00	3,244.63	2,941.22	2,817.96	11.31	13.76	176.04	297.90	587.25	1,173.92	1,156.02	17.89	65.605	
3,400.00	3,341.36	3,016.81	2,888.22	11.63	14.09	178.14	305.08	614.20	1,232.68	1,214.64	18.04	68.345	
3,500.00	3,438.41	3,066.00	2,933.57	11.96	14.32	-174.46	309.98	632.61	1,291.97	1,273.89	18.08	71.454	

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. 049H
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. 049H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 728H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2695-MWD, 13517-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	2.99	2.99	0.00	0.01	-18.59	144.12	-48.48	152.06				
100.00	100.00	102.79	102.79	0.13	0.18	44.44	144.35	-48.01	152.08	151.77	0.31	490.574	
200.00	200.00	202.57	202.56	0.31	0.35	45.06	145.02	-46.65	152.14	151.48	0.66	230.646	
300.00	300.00	302.30	302.26	0.49	0.52	46.08	146.12	-44.39	152.29	151.28	1.01	150.905	
400.00	400.00	401.97	401.86	0.67	0.69	47.50	147.65	-41.25	152.58	151.22	1.36	112.303	
500.00	500.00	500.53	500.35	1.00	0.99	28.28	149.65	-38.11	153.32	151.33	1.99	77.084	
600.00	600.00	600.52	600.30	1.36	1.34	55.44	152.06	-36.31	154.86	152.16	2.70	57.308	
700.00	699.99	703.61	703.37	1.72	1.69	37.69	152.71	-36.14	155.04	151.63	3.41	45.487	
800.00	799.99	804.45	804.18	2.08	2.03	34.65	151.64	-38.31	154.06	149.96	4.10	37.561	
900.00	899.99	904.69	904.38	2.43	2.37	69.43	150.10	-40.85	152.93	148.13	4.80	31.878	
1,000.00	999.99	1,005.02	1,004.67	2.78	2.71	105.23	148.48	-43.22	152.01	146.52	5.49	27.670	
1,100.00	1,099.99	1,105.21	1,104.82	3.13	3.06	76.12	146.62	-45.35	150.79	144.60	6.20	24.336	
1,200.00	1,199.99	1,205.23	1,204.82	3.49	3.41	43.25	144.90	-46.89	149.43	142.52	6.90	21.643	
1,300.00	1,299.99	1,307.67	1,307.22	3.85	3.77	41.84	143.30	-45.44	147.20	139.58	7.62	19.323	
1,400.00	1,399.99	1,408.25	1,407.56	4.21	4.12	87.77	141.84	-38.72	143.90	135.58	8.33	17.285	
1,500.00	1,499.97	1,506.76	1,505.33	4.56	4.47	111.89	141.63	-26.81	141.85	132.82	9.04	15.700	
1,508.71	1,508.67	1,515.61	1,514.08	4.59	4.51	112.51	141.68	-25.47	141.84	132.74	9.10	15.588 CC, ES	
1,600.00	1,599.73	1,606.79	1,603.81	4.92	4.85	120.88	141.37	-9.40	143.41	133.64	9.77	14.678	
1,700.00	1,698.94	1,701.74	1,696.44	5.29	5.23	131.18	139.93	11.39	151.99	141.49	10.51	14.463 SF	
1,800.00	1,797.33	1,789.86	1,781.45	5.67	5.62	141.38	138.34	34.55	172.13	160.93	11.20	15.372	
1,900.00	1,894.70	1,870.62	1,858.15	6.08	6.01	152.60	137.00	59.73	206.09	194.30	11.79	17.485	
2,000.00	1,991.28	1,949.30	1,931.73	6.51	6.43	161.36	135.62	87.56	251.19	238.85	12.33	20.364	
2,100.00	2,087.79	2,028.27	2,004.94	6.97	6.88	167.27	133.96	117.12	301.63	288.75	12.89	23.408	
2,200.00	2,184.34	2,110.32	2,080.90	7.44	7.37	171.80	132.29	148.11	354.62	341.13	13.49	26.280	
2,300.00	2,280.85	2,194.39	2,158.96	7.92	7.90	175.04	130.37	179.25	408.65	394.50	14.15	28.887	
2,400.00	2,377.21	2,276.11	2,234.90	8.42	8.42	177.13	128.30	209.35	463.86	449.08	14.78	31.378	
2,500.00	2,473.49	2,358.41	2,311.41	8.93	8.95	179.52	125.95	239.61	519.88	504.44	15.44	33.674	
2,600.00	2,569.80	2,440.64	2,387.88	9.44	9.50	-178.55	123.39	269.74	576.13	560.03	16.10	35.789	
2,700.00	2,666.14	2,531.71	2,472.84	9.78	10.10	-174.37	120.49	302.39	631.99	615.20	16.79	37.630	
2,800.00	2,762.55	2,624.49	2,560.00	9.97	10.65	175.11	117.63	334.03	686.57	669.35	17.22	39.862	
2,900.00	2,859.09	2,712.58	2,643.16	10.18	11.03	175.70	115.27	362.99	740.09	722.64	17.45	42.414	
3,000.00	2,955.88	2,797.43	2,723.44	10.42	11.27	177.84	113.27	390.42	792.70	775.16	17.54	45.192	
3,100.00	3,052.13	2,870.12	2,792.10	10.69	11.51	179.34	111.94	414.25	847.75	830.14	17.61	48.142	
3,200.00	3,148.25	2,963.09	2,879.91	10.99	11.83	-178.11	110.66	444.77	903.55	885.73	17.82	50.703	
3,300.00	3,244.63	3,035.50	2,948.51	11.31	12.10	-175.52	109.75	467.93	957.99	940.05	17.94	53.393	
3,400.00	3,341.36	3,093.00	3,002.51	11.63	12.32	-173.56	109.52	487.65	1,013.39	995.38	18.00	56.286	
3,500.00	3,438.41	3,196.13	3,099.31	11.96	12.76	-166.10	109.62	523.24	1,067.99	1,049.64	18.34	58.227	
3,600.00	3,534.80	3,291.49	3,189.36	12.30	13.17	-122.28	110.06	554.60	1,119.21	1,100.52	18.69	59.887	
3,700.00	3,628.36	3,375.06	3,268.41	12.61	13.54	-102.24	110.84	581.72	1,164.06	1,145.01	19.05	61.114	
3,800.00	3,717.75	3,494.98	3,382.76	12.91	14.06	-91.69	112.57	617.73	1,200.84	1,181.15	19.69	60.982	
3,900.00	3,803.80	3,546.11	3,431.41	13.20	14.29	-86.81	113.53	633.44	1,234.04	1,213.98	20.06	61.520	
4,000.00	3,885.98	3,603.86	3,485.87	13.51	14.56	-81.83	114.67	652.63	1,265.51	1,244.95	20.56	61.554	
4,100.00	3,962.27	3,668.79	3,546.71	13.83	14.90	-76.32	116.22	675.25	1,291.73	1,270.50	21.24	60.819	
4,200.00	4,031.66	3,801.62	3,673.16	14.17	15.42	-76.66	137.74	707.86	1,309.59	1,287.17	22.42	58.405	

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. 049H
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. 049H	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		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	3.04	3.04	0.00	0.01	-41.88	104.04	-93.30	139.75				
100.00	100.00	104.36	104.35	0.13	0.18	20.86	103.52	-93.12	139.18	138.87	0.31	446.632	
200.00	200.00	205.65	205.63	0.31	0.35	20.63	102.02	-92.60	137.55	136.89	0.66	207.545	
300.00	300.00	306.89	306.84	0.49	0.53	20.25	99.54	-91.74	134.85	133.84	1.01	132.914	
400.00	400.00	408.06	407.94	0.67	0.70	19.68	96.08	-90.54	131.10	129.73	1.37	95.832	
500.00	500.00	508.30	508.09	1.00	1.02	-1.80	91.89	-89.16	126.58	124.57	2.01	62.844	
600.00	600.00	607.95	607.64	1.36	1.39	23.58	87.79	-87.72	122.13	119.40	2.73	44.729	
700.00	699.99	707.30	706.91	1.72	1.75	4.60	83.81	-86.70	118.03	114.58	3.45	34.244	
800.00	799.99	806.63	806.17	2.08	2.11	1.36	80.27	-85.86	114.44	110.28	4.16	27.490	
900.00	899.99	905.99	905.48	2.43	2.47	36.17	77.18	-85.39	111.62	106.74	4.88	22.890	
1,000.00	999.99	1,005.24	1,004.70	2.78	2.83	72.10	74.59	-85.11	109.60	104.01	5.58	19.628	
1,100.00	1,099.99	1,106.69	1,106.11	3.13	3.20	42.88	71.80	-85.05	107.61	101.30	6.30	17.072	
1,200.00	1,199.99	1,211.01	1,210.23	3.49	3.59	8.69	65.72	-83.57	102.52	95.48	7.04	14.568	
1,300.00	1,299.99	1,313.79	1,312.42	3.85	3.98	3.12	55.33	-80.21	93.41	85.64	7.77	12.022	
1,400.00	1,399.99	1,414.83	1,412.43	4.21	4.39	40.53	41.67	-75.84	82.23	73.71	8.51	9.659	
1,500.00	1,499.97	1,514.96	1,511.05	4.56	4.82	50.70	25.10	-70.68	69.51	60.23	9.28	7.487	
1,600.00	1,599.73	1,614.15	1,607.95	4.92	5.26	37.93	4.86	-64.58	53.67	43.55	10.12	5.306	
1,700.00	1,698.94	1,710.93	1,701.45	5.29	5.73	11.74	-19.17	-58.00	37.20	26.20	11.00	3.381	
1,770.95	1,768.84	1,778.58	1,766.31	5.56	6.08	-21.70	-37.76	-53.17	31.68	20.38	11.31	2.802 CC, ES, SF	
1,800.00	1,797.33	1,806.14	1,792.66	5.67	6.22	-37.14	-45.60	-51.16	32.75	21.45	11.31	2.897	
1,900.00	1,894.70	1,900.84	1,883.16	6.08	6.72	-73.99	-72.65	-44.41	49.53	37.73	11.80	4.197	
2,000.00	1,991.28	1,995.53	1,973.74	6.51	7.24	-91.87	-99.48	-37.89	76.15	63.39	12.76	5.968	
2,100.00	2,087.79	2,090.37	2,064.58	6.97	7.76	-101.49	-125.97	-31.40	106.14	92.40	13.74	7.726	
2,200.00	2,184.34	2,185.90	2,156.34	7.44	8.28	-107.14	-151.69	-24.82	136.99	122.28	14.71	9.313	
2,300.00	2,280.85	2,280.41	2,247.29	7.92	8.80	-111.04	-176.61	-18.49	168.23	152.59	15.65	10.750	
2,400.00	2,377.21	2,372.58	2,335.66	8.42	9.31	-113.88	-202.01	-12.12	201.24	184.69	16.55	12.158	
2,500.00	2,473.49	2,468.23	2,427.28	8.93	9.85	-115.47	-228.72	-5.81	234.65	217.13	17.52	13.393	
2,600.00	2,569.80	2,564.12	2,519.45	9.44	10.39	-116.92	-254.39	0.63	267.60	249.12	18.48	14.479	
2,700.00	2,666.14	2,662.78	2,614.61	9.78	10.81	-116.03	-279.67	6.78	299.03	279.84	19.19	15.582	
2,800.00	2,762.55	2,755.82	2,704.65	9.97	11.08	-127.74	-302.49	12.32	331.60	312.08	19.53	16.980	
2,900.00	2,859.09	2,841.47	2,787.25	10.18	11.29	-129.03	-324.31	18.39	367.24	347.48	19.76	18.586	
3,000.00	2,955.88	2,924.36	2,866.58	10.42	11.53	-128.19	-347.20	25.63	404.64	384.65	19.99	20.241	
3,100.00	3,052.13	3,006.18	2,944.37	10.69	11.79	-127.30	-371.03	34.24	445.20	424.93	20.27	21.964	
3,200.00	3,148.25	3,100.47	3,033.92	10.99	12.12	-126.28	-398.55	44.97	486.38	465.65	20.72	23.468	
3,300.00	3,244.63	3,201.74	3,130.55	11.31	12.48	-124.98	-426.89	55.64	525.19	503.93	21.27	24.696	
3,400.00	3,341.36	3,288.59	3,213.26	11.63	12.81	-123.82	-451.98	64.09	562.48	540.79	21.70	25.925	
3,500.00	3,438.41	3,401.69	3,321.63	11.96	13.25	-117.77	-482.73	74.14	596.86	574.49	22.37	26.677	
3,600.00	3,534.80	3,487.53	3,403.83	12.30	13.59	-79.07	-506.28	81.49	622.01	599.14	22.87	27.196	
3,700.00	3,628.36	3,975.82	3,870.21	12.61	14.38	-71.52	-550.50	2.58	598.50	575.70	22.81	26.240	
3,800.00	3,717.75	4,378.85	4,160.30	12.91	13.67	-113.70	-394.96	-213.75	511.20	495.11	16.09	31.778	
3,900.00	3,803.80	4,385.10	4,163.36	13.20	13.66	-116.54	-391.44	-217.92	425.32	408.35	16.97	25.065	
4,000.00	3,885.98	4,383.06	4,162.36	13.51	13.66	-119.51	-392.59	-216.55	346.08	327.73	18.35	18.863	
4,100.00	3,962.27	4,369.27	4,155.63	13.83	13.68	-116.95	-400.37	-207.38	278.43	257.98	20.45	13.617	
4,200.00	4,031.66	4,342.59	4,142.55	14.17	13.72	-111.14	-415.40	-189.64	231.17	208.17	23.01	10.048	
4,276.76	4,079.02	4,316.59	4,129.26	14.51	13.77	-105.38	-429.68	-172.45	218.74	194.56	24.18	9.046	
4,300.00	4,091.96	4,308.23	4,124.78	14.63	13.79	-103.32	-434.13	-166.97	219.79	195.60	24.19	9.085	
4,400.00	4,146.16	4,277.20	4,107.16	15.25	13.85	-94.39	-449.96	-146.93	247.99	225.03	22.96	10.801	
4,500.00	4,191.72	4,247.29	4,088.73	16.08	13.91	-81.18	-464.24	-128.21	302.13	280.83	21.29	14.188	
4,600.00	4,223.73	4,215.33	4,067.49	17.14	13.97	-68.23	-478.37	-108.97	366.30	345.97	20.33	18.017	
4,700.00	4,240.94	4,180.91	4,042.97	18.42	14.04	-56.42	-492.30	-89.25	433.79	413.79	20.00	21.693	
4,800.00	4,246.89	4,147.73	4,017.86	19.92	14.10	-51.17	-504.52	-71.33	504.51	484.38	20.13	25.064	
4,900.00	4,250.15	4,116.90	3,993.28	21.59	14.16	-47.70	-514.79	-55.81	579.53	559.15	20.38	28.441	

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. 049H
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. 049H	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		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,251.53	4,089.73	3,970.83	23.37	14.21	-45.38	-523.08	-42.96	657.76	637.07	20.69	31.791	
5,100.00	4,250.78	4,065.03	3,949.79	25.23	14.25	-43.84	-529.93	-31.98	737.66	716.64	21.02	35.087	
5,200.00	4,248.42	4,044.00	3,931.47	27.16	14.28	-42.20	-535.31	-23.17	819.36	797.99	21.37	38.341	
5,300.00	4,245.60	4,013.00	3,903.91	29.15	14.33	-40.41	-542.61	-11.01	903.28	881.70	21.58	41.866	
5,400.00	4,245.75	3,995.92	3,888.51	31.18	14.35	-39.09	-546.36	-4.64	990.89	969.03	21.86	45.329	
5,500.00	4,244.80	3,981.00	3,874.96	33.25	14.37	-36.88	-549.49	0.77	1,079.54	1,057.42	22.12	48.807	
5,600.00	4,241.48	3,950.00	3,846.55	35.35	14.41	-34.10	-555.52	11.59	1,168.42	1,146.18	22.24	52.537	
5,700.00	4,238.97	3,938.53	3,835.94	37.47	14.42	-36.23	-557.56	15.46	1,258.69	1,236.22	22.47	56.011	

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. 049H
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. 049H	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 (°)	Offset Wellbore Centre +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	-33.66	117.52	-78.26	141.20				
100.00	100.00	102.31	102.31	0.13	0.17	29.25	117.84	-78.24	141.39	141.08	0.31	461.176	
200.00	200.00	201.63	201.63	0.31	0.34	29.51	118.75	-78.17	141.94	141.29	0.65	217.435	
300.00	300.00	300.94	300.93	0.49	0.51	29.95	120.25	-78.07	142.86	141.86	1.00	142.994	
400.00	400.00	400.23	400.20	0.67	0.67	30.54	122.34	-77.92	144.15	142.80	1.35	107.129	
500.00	500.00	499.64	499.56	1.00	0.97	10.60	125.06	-77.64	145.82	143.84	1.97	73.893	
600.00	600.00	599.97	599.86	1.36	1.33	37.51	127.88	-77.38	147.62	144.93	2.69	54.844	
700.00	699.99	701.74	701.60	1.72	1.70	20.12	130.10	-77.11	148.86	145.44	3.41	43.618	
800.00	799.99	804.75	804.60	2.08	2.05	18.37	130.39	-75.89	148.02	143.90	4.13	35.860	
900.00	899.99	904.47	904.31	2.43	2.39	54.53	129.78	-74.54	146.51	141.69	4.82	30.374	
1,000.00	999.99	1,004.05	1,003.88	2.78	2.74	91.46	129.40	-74.01	145.91	140.40	5.52	26.454	
1,100.00	1,099.99	1,103.81	1,103.64	3.13	3.08	63.50	129.10	-73.29	145.24	139.02	6.22	23.363	
1,200.00	1,199.99	1,203.70	1,203.53	3.49	3.43	31.46	128.88	-72.93	144.66	137.74	6.92	20.899	
1,300.00	1,299.99	1,303.60	1,303.43	3.85	3.78	29.64	128.55	-72.81	143.94	136.32	7.62	18.878	
1,400.00	1,399.99	1,407.85	1,407.65	4.21	4.14	73.50	127.51	-71.25	142.15	133.81	8.34	17.041	
1,500.00	1,499.97	1,516.05	1,515.52	4.56	4.53	95.12	123.58	-64.03	135.94	126.89	9.06	15.011	
1,600.00	1,599.73	1,621.33	1,619.65	4.92	4.92	102.32	115.68	-50.84	125.20	115.45	9.76	12.834	
1,700.00	1,698.94	1,720.56	1,717.05	5.29	5.30	113.45	105.45	-34.90	115.26	104.76	10.49	10.983	
1,768.09	1,766.03	1,785.60	1,780.57	5.55	5.56	123.32	98.02	-23.04	112.65	101.61	11.04	10.206 CC, ES	
1,800.00	1,797.33	1,815.91	1,810.08	5.67	5.69	128.55	94.39	-17.15	113.32	102.02	11.30	10.029 SF	
1,900.00	1,894.70	1,909.04	1,900.34	6.08	6.10	147.22	82.08	2.22	125.01	112.91	12.11	10.325	
2,000.00	1,991.28	2,000.39	1,988.36	6.51	6.52	162.28	68.16	22.26	149.50	136.64	12.86	11.629	
2,100.00	2,087.79	2,090.61	2,075.28	6.97	6.94	172.16	54.13	41.96	181.31	167.76	13.55	13.376	
2,200.00	2,184.34	2,181.33	2,162.96	7.44	7.39	178.95	40.66	60.94	216.65	202.40	14.25	15.201	
2,300.00	2,280.85	2,267.82	2,246.32	7.92	7.82	-176.41	27.59	79.93	255.25	240.34	14.92	17.113	
2,400.00	2,377.21	2,357.66	2,332.63	8.42	8.28	-172.92	13.38	100.44	296.43	280.79	15.64	18.959	
2,500.00	2,473.49	2,450.06	2,421.52	8.93	8.76	-169.60	-1.30	120.95	338.42	322.03	16.40	20.639	
2,600.00	2,569.80	2,544.96	2,513.22	9.44	9.25	-167.17	-15.65	140.67	379.91	362.72	17.19	22.104	
2,700.00	2,666.14	2,639.23	2,604.75	9.78	9.65	-163.13	-28.95	158.91	420.50	402.72	17.78	23.652	
2,800.00	2,762.55	2,729.84	2,692.94	9.97	9.90	-173.09	-41.19	175.76	461.03	443.05	17.98	25.641	
2,900.00	2,859.09	2,813.19	2,773.69	10.18	10.06	-172.28	-53.70	192.17	502.59	484.53	18.06	27.823	
3,000.00	2,955.88	2,894.64	2,851.98	10.42	10.24	-169.69	-67.56	209.80	545.16	526.99	18.17	29.998	
3,100.00	3,052.13	2,990.32	2,944.00	10.69	10.49	-167.33	-83.71	230.48	589.85	571.43	18.42	32.014	
3,200.00	3,148.25	3,069.96	3,020.58	10.99	10.71	-164.70	-97.20	247.65	635.08	616.47	18.62	34.116	
3,300.00	3,244.63	3,158.15	3,104.90	11.31	10.99	-161.68	-113.46	267.72	680.48	661.59	18.89	36.018	
3,400.00	3,341.36	3,247.64	3,190.59	11.63	11.29	-159.27	-129.74	287.79	724.40	705.19	19.21	37.707	
3,500.00	3,438.41	3,368.33	3,306.72	11.96	11.70	-151.74	-150.41	313.24	766.08	746.34	19.74	38.810	
3,600.00	3,534.80	3,443.42	3,379.53	12.30	11.96	-110.42	-161.64	327.71	801.47	781.43	20.05	39.978	
3,700.00	3,628.36	3,519.18	3,452.43	12.61	12.24	-92.10	-173.81	344.37	829.47	809.02	20.45	40.563	
3,800.00	3,717.75	3,597.31	3,527.15	12.91	12.56	-82.01	-186.84	363.09	850.92	829.96	20.96	40.592	
3,900.00	3,803.80	3,704.22	3,628.92	13.20	13.01	-78.93	-205.34	390.07	867.45	845.66	21.79	39.817	
4,000.00	3,885.98	3,892.62	3,813.65	13.51	13.62	-79.65	-223.98	420.73	871.53	848.42	23.11	37.708	
4,100.00	3,962.27	4,019.09	3,939.75	13.83	13.88	-79.09	-227.81	429.02	862.75	838.71	24.04	35.888	
4,200.00	4,031.66	4,100.06	4,020.69	14.17	14.01	-80.72	-228.48	431.00	847.06	822.16	24.90	34.015	
4,300.00	4,091.96	4,179.61	4,100.21	14.63	14.10	-85.85	-227.23	430.92	832.69	806.82	25.87	32.182	
4,400.00	4,146.16	4,239.40	4,159.63	15.25	14.13	-89.26	-221.92	427.23	824.69	797.84	26.85	30.712	
4,481.02	4,184.06	4,273.31	4,193.04	15.91	14.12	-90.46	-217.33	423.62	822.73	795.05	27.68	29.722	
4,500.00	4,191.72	4,278.89	4,198.50	16.08	14.12	-90.60	-216.47	422.90	823.26	795.42	27.84	29.571	
4,600.00	4,223.73	4,292.02	4,211.33	17.14	14.12	-89.85	-214.34	421.08	826.85	797.96	28.89	28.625	
4,700.00	4,240.94	4,287.33	4,206.75	18.42	14.12	-88.29	-215.12	421.75	837.71	807.94	29.77	28.143	
4,800.00	4,246.89	4,273.98	4,193.68	19.92	14.12	-86.81	-217.23	423.54	859.75	829.18	30.56	28.130	
4,900.00	4,250.15	4,258.00	4,177.99	21.59	14.13	-85.32	-219.54	425.40	891.71	860.53	31.18	28.601	

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. 049H
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. 049H	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	4,251.53	4,250.88	4,170.97	23.37	14.13	-84.36	-220.49	426.14	932.42	900.79	31.63	29.480	
5,100.00	4,250.78	4,240.87	4,161.08	25.23	14.13	-83.20	-221.74	427.10	979.22	947.31	31.92	30.681	
5,200.00	4,248.42	4,226.00	4,146.36	27.16	14.13	-81.73	-223.42	428.34	1,032.16	1,000.10	32.06	32.190	
5,300.00	4,245.60	4,226.00	4,146.36	29.15	14.13	-82.58	-223.42	428.34	1,091.44	1,059.29	32.15	33.948	
5,400.00	4,245.75	4,217.51	4,137.94	31.18	14.12	-82.35	-224.29	428.96	1,158.23	1,126.11	32.12	36.062	
5,500.00	4,244.80	4,211.97	4,132.44	33.25	14.12	-80.78	-224.81	429.33	1,229.45	1,197.42	32.04	38.374	
5,600.00	4,241.48	4,206.08	4,126.58	35.35	14.12	-78.91	-225.33	429.69	1,304.09	1,272.16	31.93	40.842	

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. 049H
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. 049H	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		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	3.00	3.00	0.00	0.01	-49.91	90.93	-108.04	141.21				
100.00	100.00	102.93	102.92	0.13	0.17	13.08	91.26	-107.80	141.17	140.86	0.31	457.444	
200.00	200.00	202.84	202.83	0.31	0.34	13.57	92.20	-107.11	141.06	140.40	0.66	214.723	
300.00	300.00	302.73	302.70	0.49	0.51	14.38	93.75	-105.96	140.90	139.89	1.01	140.165	
400.00	400.00	402.58	402.52	0.67	0.68	15.52	95.92	-104.36	140.72	139.36	1.35	103.969	
500.00	500.00	502.61	502.49	1.00	0.99	-3.77	98.60	-102.35	140.55	138.56	1.99	70.645	
600.00	600.00	602.82	602.68	1.36	1.35	23.30	100.32	-101.06	140.33	137.62	2.71	51.837	
700.00	699.99	703.11	702.96	1.72	1.70	5.64	100.97	-100.65	139.95	136.53	3.42	40.890	
800.00	799.99	803.02	802.87	2.08	2.05	3.52	101.13	-100.31	139.32	135.19	4.13	33.740	
826.75	826.74	829.38	829.23	2.17	2.14	10.08	101.10	-100.42	139.28	134.96	4.31	32.285	
900.00	899.99	902.67	902.51	2.43	2.39	38.94	100.80	-101.25	139.40	134.58	4.82	28.926	
1,000.00	999.99	1,004.50	1,004.31	2.78	2.73	74.73	98.91	-102.88	139.17	133.66	5.51	25.268	
1,100.00	1,099.99	1,108.44	1,107.98	3.13	3.08	43.72	92.34	-105.92	136.88	130.67	6.21	22.042	
1,200.00	1,199.99	1,209.28	1,208.01	3.49	3.43	6.43	80.47	-110.38	132.61	125.69	6.92	19.169	
1,300.00	1,299.99	1,310.32	1,307.91	3.85	3.80	-1.89	66.11	-115.23	128.40	120.76	7.65	16.796	
1,400.00	1,399.99	1,412.02	1,407.92	4.21	4.20	33.37	48.16	-119.50	124.10	115.70	8.40	14.780	
1,500.00	1,499.97	1,510.24	1,503.70	4.56	4.61	42.62	26.86	-123.53	120.42	111.25	9.17	13.137	
1,600.00	1,599.73	1,607.40	1,597.28	4.92	5.05	31.64	1.22	-128.28	116.84	106.89	9.95	11.744	
1,700.00	1,698.94	1,702.12	1,686.94	5.29	5.53	18.20	-28.79	-133.85	114.27	103.59	10.68	10.698	
1,800.00	1,797.33	1,798.75	1,777.76	5.67	6.05	3.82	-61.23	-139.86	113.37	102.01	11.35	9.986	
1,812.68	1,809.74	1,810.82	1,789.11	5.72	6.12	2.40	-65.28	-140.61	113.35	101.92	11.43	9.917 CC, ES	
1,900.00	1,894.70	1,894.12	1,867.27	6.08	6.59	-7.71	-93.57	-146.02	114.14	102.23	11.91	9.582	
2,000.00	1,991.28	1,990.97	1,958.09	6.51	7.16	-19.97	-126.60	-152.33	118.02	105.54	12.48	9.459	
2,100.00	2,087.79	2,088.06	2,049.37	6.97	7.74	-31.86	-159.09	-158.74	126.70	113.58	13.12	9.658	
2,200.00	2,184.34	2,183.99	2,139.59	7.44	8.32	-41.77	-191.04	-165.11	139.97	126.13	13.85	10.109	
2,300.00	2,280.85	2,278.21	2,227.84	7.92	8.91	-50.02	-223.42	-171.42	157.66	143.01	14.65	10.763	
2,400.00	2,377.21	2,374.09	2,317.42	8.42	9.52	-57.24	-257.02	-177.75	178.48	162.90	15.59	11.450	
2,500.00	2,473.49	2,472.63	2,409.70	8.93	10.15	-62.66	-290.94	-184.29	200.47	183.83	16.65	12.043	
2,600.00	2,569.80	2,571.36	2,502.76	9.44	10.77	-67.23	-323.39	-190.27	222.37	204.64	17.73	12.544	
2,700.00	2,666.14	2,666.45	2,592.42	9.78	11.31	-68.72	-354.56	-195.77	244.66	226.15	18.51	13.220	
2,800.00	2,762.55	2,755.07	2,675.65	9.97	11.66	-81.70	-384.59	-200.64	271.24	252.38	18.86	14.380	
2,900.00	2,859.09	2,841.87	2,756.01	10.18	11.98	-84.61	-416.95	-206.17	303.80	284.63	19.17	15.845	
3,000.00	2,955.88	2,932.42	2,839.39	10.42	12.35	-85.36	-451.87	-211.33	338.08	318.50	19.58	17.265	
3,100.00	3,052.13	3,023.60	2,923.11	10.69	12.76	-85.83	-487.61	-216.65	372.77	352.69	20.07	18.569	
3,200.00	3,148.25	3,112.46	3,004.48	10.99	13.18	-86.00	-523.03	-221.08	408.06	387.47	20.60	19.813	
3,300.00	3,244.63	3,205.48	3,089.65	11.31	13.64	-85.74	-560.26	-224.70	443.38	422.18	21.20	20.917	
3,400.00	3,341.36	3,302.03	3,178.31	11.63	14.14	-85.63	-598.35	-227.87	477.86	456.00	21.85	21.867	
3,500.00	3,438.41	3,400.39	3,268.96	11.96	14.65	-80.58	-636.40	-230.79	511.21	488.68	22.53	22.691	
3,600.00	3,534.80	3,508.77	3,369.60	12.30	15.21	-43.67	-676.49	-233.97	532.37	509.08	23.29	22.860	
3,700.00	3,628.36	3,611.78	3,465.94	12.61	15.74	-26.71	-712.86	-236.71	534.21	510.29	23.92	22.333	
3,800.00	3,717.75	3,710.25	3,557.66	12.91	16.27	-15.60	-748.46	-240.82	522.63	498.20	24.43	21.397	
3,900.00	3,803.80	3,815.82	3,656.37	13.20	16.83	-9.19	-785.69	-244.76	501.88	476.95	24.94	20.127	
4,000.00	3,885.98	3,916.85	3,751.60	13.51	17.37	-2.29	-819.24	-248.12	471.88	446.58	25.31	18.646	
4,100.00	3,962.27	4,006.66	3,836.39	13.83	17.84	8.35	-848.66	-251.21	432.67	407.33	25.34	17.074	
4,200.00	4,031.66	4,094.34	3,919.12	14.17	18.31	18.16	-877.50	-254.53	386.70	361.67	25.03	15.450	
4,300.00	4,091.96	4,190.49	4,010.47	14.63	18.80	28.63	-906.68	-260.49	331.99	307.48	24.52	13.542	
4,400.00	4,146.16	4,288.36	4,102.98	15.25	19.23	47.20	-928.97	-282.63	272.69	249.14	23.55	11.578	
4,500.00	4,191.72	4,340.63	4,152.36	16.08	19.39	66.33	-934.50	-298.83	221.58	197.38	24.20	9.157	
4,584.70	4,219.85	4,354.51	4,165.37	16.96	19.42	73.01	-935.25	-303.57	204.42	176.01	28.41	7.196	
4,600.00	4,223.73	4,355.10	4,165.93	17.14	19.43	73.33	-935.27	-303.78	205.19	175.87	29.32	6.998	
4,700.00	4,240.94	4,351.48	4,162.54	18.42	19.42	69.78	-935.11	-302.52	234.28	199.59	34.69	6.753 SF	
4,800.00	4,246.89	4,341.22	4,152.91	19.92	19.39	65.28	-934.53	-299.03	293.13	256.30	36.84	7.958	

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. 049H
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. 049H	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	4,250.15	4,330.00	4,142.34	21.59	19.36	60.95	-933.71	-295.36	369.36	332.26	37.10	9.957	
5,000.00	4,251.53	4,322.23	4,135.00	23.37	19.34	56.56	-933.03	-292.90	454.43	417.53	36.90	12.314	
5,100.00	4,250.78	4,312.45	4,125.75	25.23	19.31	50.73	-932.05	-289.85	544.68	508.10	36.57	14.893	
5,200.00	4,248.42	4,298.00	4,112.10	27.16	19.27	44.72	-930.32	-285.47	637.68	601.53	36.15	17.639	
5,300.00	4,245.60	4,298.00	4,112.10	29.15	19.27	49.65	-930.32	-285.47	732.21	696.13	36.07	20.297	
5,400.00	4,245.75	4,298.00	4,112.10	31.18	19.27	52.11	-930.32	-285.47	828.08	792.16	35.92	23.055	
5,500.00	4,244.80	4,287.11	4,101.80	33.25	19.23	46.30	-928.78	-282.27	924.46	888.87	35.59	25.977	
5,600.00	4,241.48	4,282.80	4,097.74	35.35	19.21	41.33	-928.10	-281.03	1,021.19	985.77	35.42	28.832	
5,700.00	4,238.97	4,279.34	4,094.47	37.47	19.20	52.18	-927.53	-280.04	1,118.52	1,083.25	35.27	31.711	
5,800.00	4,240.06	4,267.00	4,082.82	39.61	19.15	47.44	-925.30	-276.62	1,216.83	1,181.85	34.98	34.784	
5,900.00	4,239.56	4,267.00	4,082.82	41.77	19.15	42.60	-925.30	-276.62	1,315.09	1,280.17	34.92	37.664	

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. 049H
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. 049H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

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

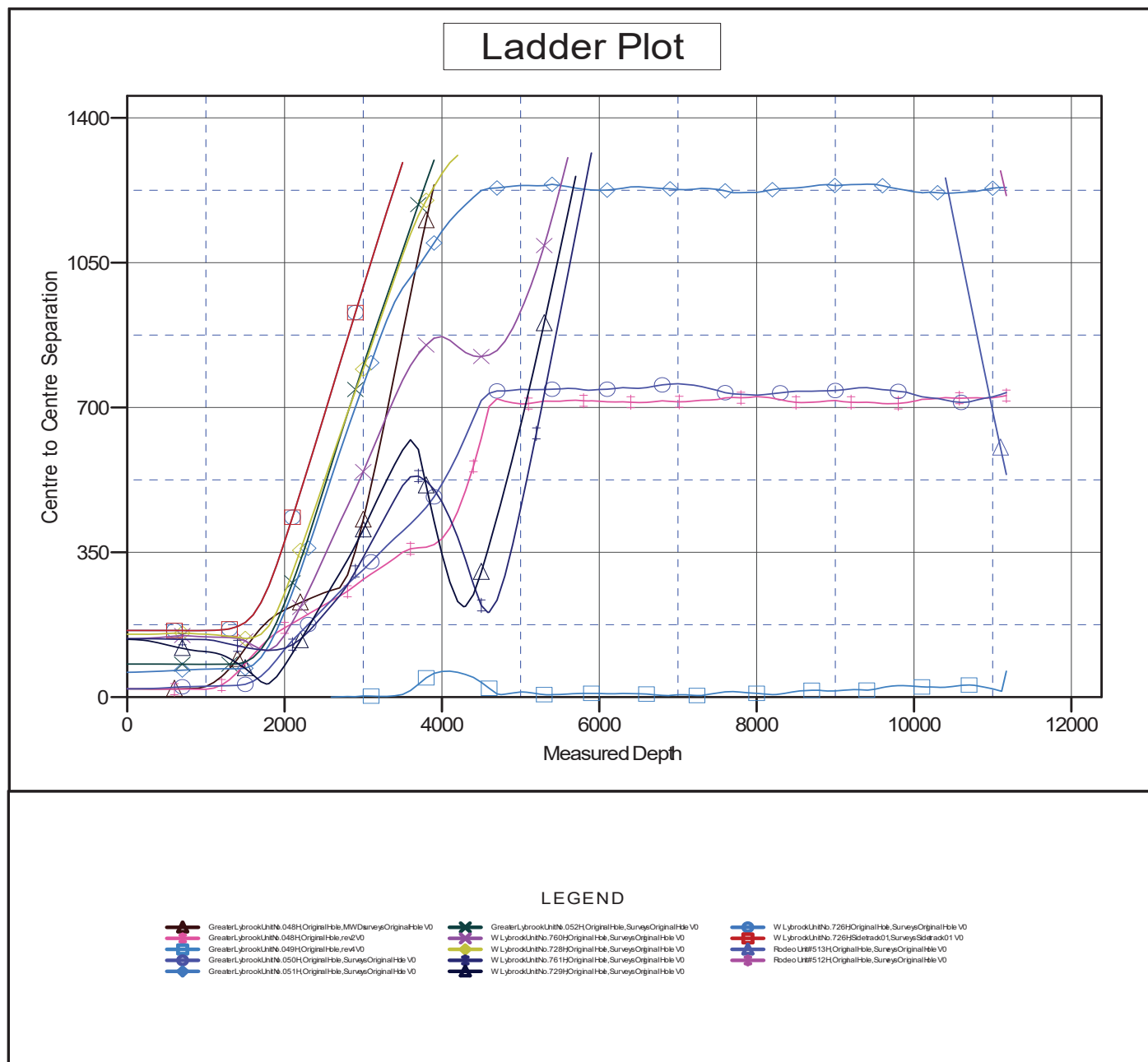
Offset Depths are relative to Offset Datum

Central Meridian is -107.833333333

Coordinates are relative to: Greater Lybrook Unit No. 049H

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

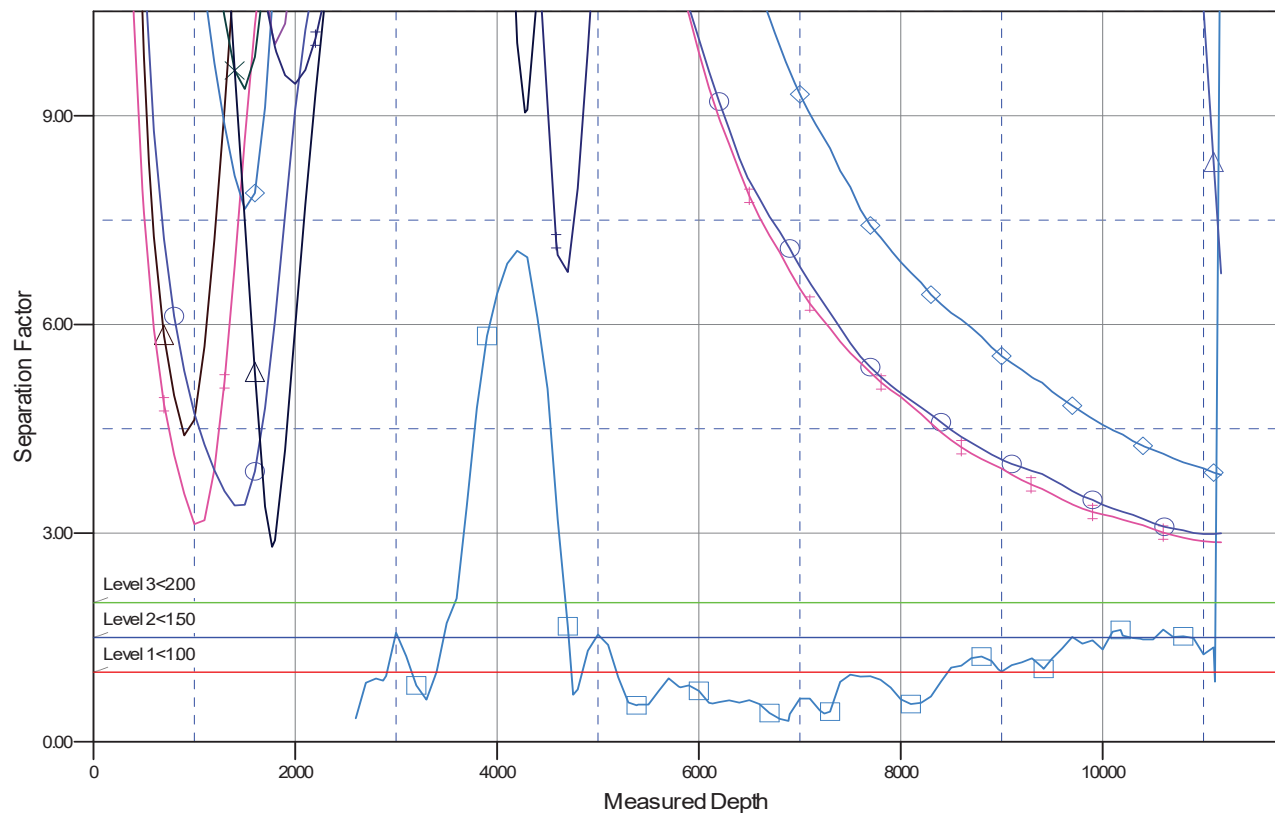


Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 049H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747+25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 049H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

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

Coordinates are relative to: Greater Lybrook Unit No. 049H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.04°

Separation Factor Plot



LEGEND

GreaterLybrookUnitNo.048HOriginalHole,MWDsurveysOriginalHole V0	GreaterLybrookUnitNo.052HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.726HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.048HOriginalHole,rev2V0	W LybrookUnitNo.760HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.726HSideTrack01,SurveysSideTrack01 V0
GreaterLybrookUnitNo.049HOriginalHole,revV0	W LybrookUnitNo.726HOriginalHole,SurveysOriginalHole V0	Rodeo Unit#513HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.050HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.761HOriginalHole,SurveysOriginalHole V0	Rodeo Unit#512HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.051HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.726HOriginalHole,SurveysOriginalHole V0	

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

WELL NAME: GREATER LYBROOK UNIT 049H

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

API Number: 30-045-38284

AFE Number: DV03080

ER Well Number: NM08276.01

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 404 ft FSL 670 ft FWL

BH Location: 26-23N-09W Sec-Twn- Rng 232 ft FSL 143 FEL

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

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

QUICK REFERENCE

Sur TD (MD)	365 ft
Int TD (MD)	2,648 ft
KOP (MD)	4,374 ft
KOP (TVD)	4,161 ft
Target (TVD)	4,142 ft
Curve BUR	10 °/100 ft
POE (MD)	4,479 ft
TD (MD)	11,165 ft
Lat Len (ft)	6,664 ft

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	365	13.375	54.5	J-55	BTC	0	365
Intermediate	12.250	2,648	9.625	36.0	J-55	LTC	0	2,648
Production	8.500	11,165	5.50	17.0	P-110	BTC	0	11,165

CEMENT PROPERTIES SUMMARY:

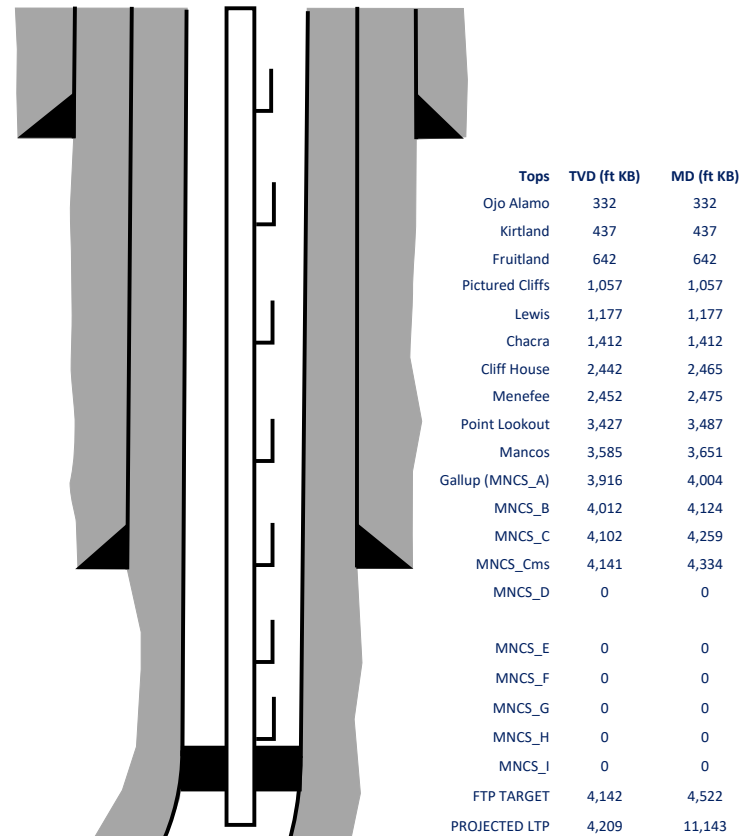
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	% Excess	TOC (ft MD)	Total (sx)	
Surface	TYPE III	14.6	1.39	6.686	100%	0	352	
Inter. (Lead)	10 Type III:P	12.5	2.14	12.05	70%	0	519	
Inter. (Tail)	Type III	14.6	1.38	6.64	20%	2,102	137	
Prod. (Lead)	ASTM type I/I	12.4	2.370	13.4	50%	0	476	
Prod. (Tail)	TegraGuard S	13.3	1.570	7.7	10%	4004	1579	

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



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 223214

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 223214
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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

CONDITIONS

Action 223214

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 223214
	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