

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

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

II. ¹⁰ Surface Location

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

¹¹ Bottom Hole Location

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

III. Oil and Gas Transporters

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

IV. Well Completion Data

²¹ Spud Date 3/3/2023	²² Ready Date 7/23/2023	²³ TD 12135' MD 4644' TVD	²⁴ PBTD 12052.6' MD 4646' TVD	²⁵ Perforations ~ 4841' - 12053' MD ~ 4633'-4646' TVD	²⁶ DHC, MC R-22081	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		370.61' MD		352 sx - surface
12-1/4"		9-5/8",36#, J-55		2616.6' MD		628 sx- surface
8-1/2"		5-1/2",17#, P-110		12134.95' MD		1814 sx- surface
8-1/2"		2-7/8",6.5#, J-55		4987.7'		NA

V. Well Test Data

³¹ Date New Oil 7/27/23	³² Gas Delivery Date 7/23/23	³³ Test Date 7/27/23	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure 220	³⁶ Csg. Pressure 788
³⁷ Choke Size 64/64"	³⁸ Oil 30	³⁹ Water 0	⁴⁰ Gas 543		⁴¹ Test Method F

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: 	OIL CONSERVATION DIVISION				
	Approved by: <i>PATRICIA MARTINEZ</i>				
	Title: <i>PETROLEUM SPECIALIST</i>				
	Approval Date: <i>10/12/2023</i>				
Printed name: Kayla White					
Title: Environmental Engineer					
E-mail Address: kwhite@enduringresources.com					
Date: 8/18/2023		Phone: 720-768-3575			



ENDURING RESOURCES IV LLC

May 25, 2023

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

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

Sincerely,

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

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

District I
 9000 Pleasant Drive, Hobbs, NM 88240
 Phone: (575) 393-6161 Fax: (575) 393-0720
 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 30-045-38278	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	
⁷ GRID No. 372286	⁶ Operator Name ENDURING RESOURCES, LLC	⁸ Well Number 050H
		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		417	SOUTH	685	WEST	SAN JUAN

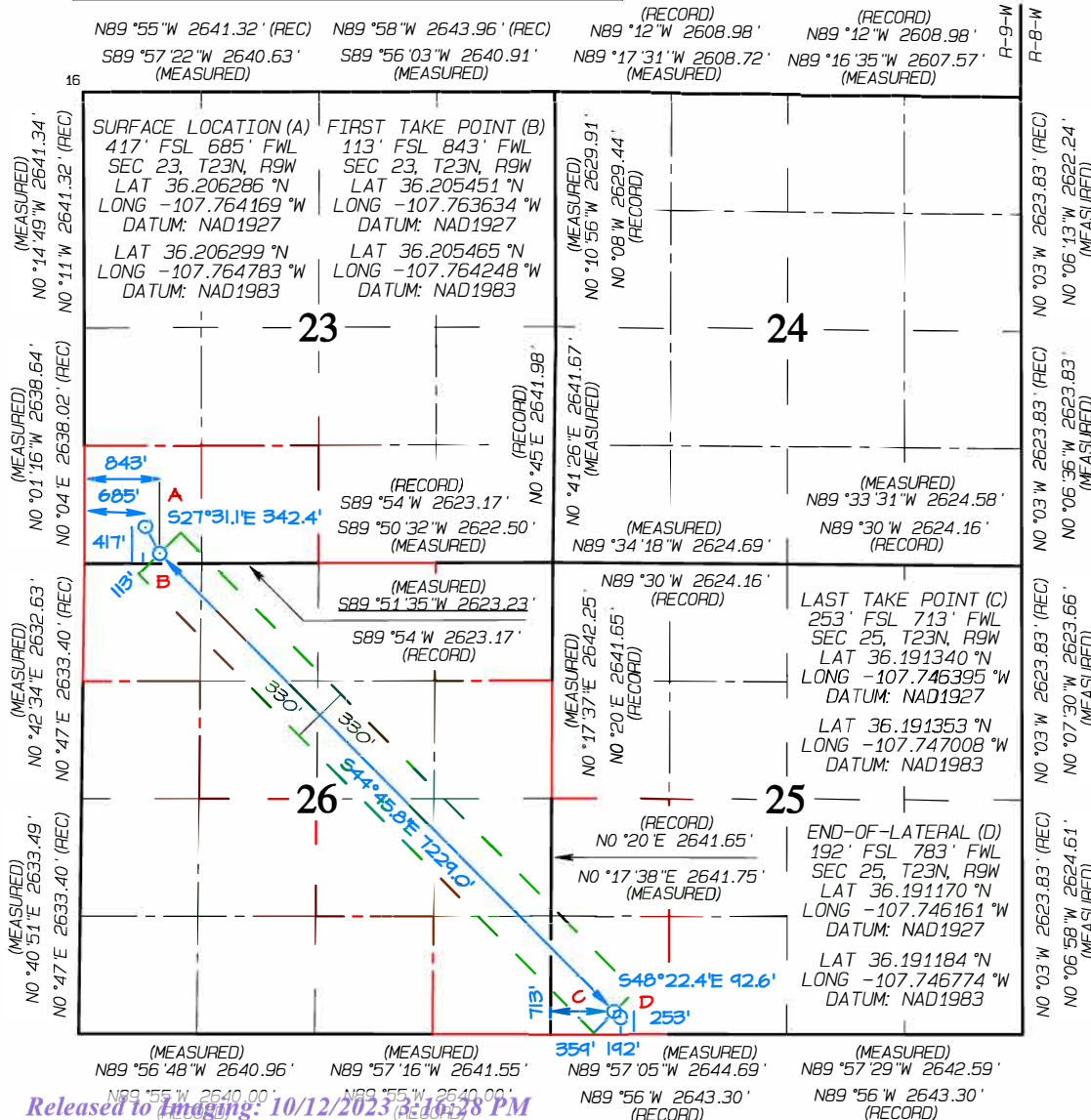
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	23N	9W		192	SOUTH	783	WEST	SAN JUAN

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

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

N89°55'W 2641.32' (REC)	N89°58'W 2643.96' (REC)	(RECORD) N89°12'W 2608.98'	(RECORD) N89°12'W 2608.98'
S89°57'22"W 2640.63' (MEASURED)	S89°56'03"W 2640.91' (MEASURED)	N89°17'31"W 2608.72' (MEASURED)	N89°16'35"W 2607.57' (MEASURED)



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.

Heath H. 5/31/23

Signature Heather Huntington Date _____

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 I
1025 N. Front Street, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462Submit one copy to
Appropriate District OfficeOIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

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

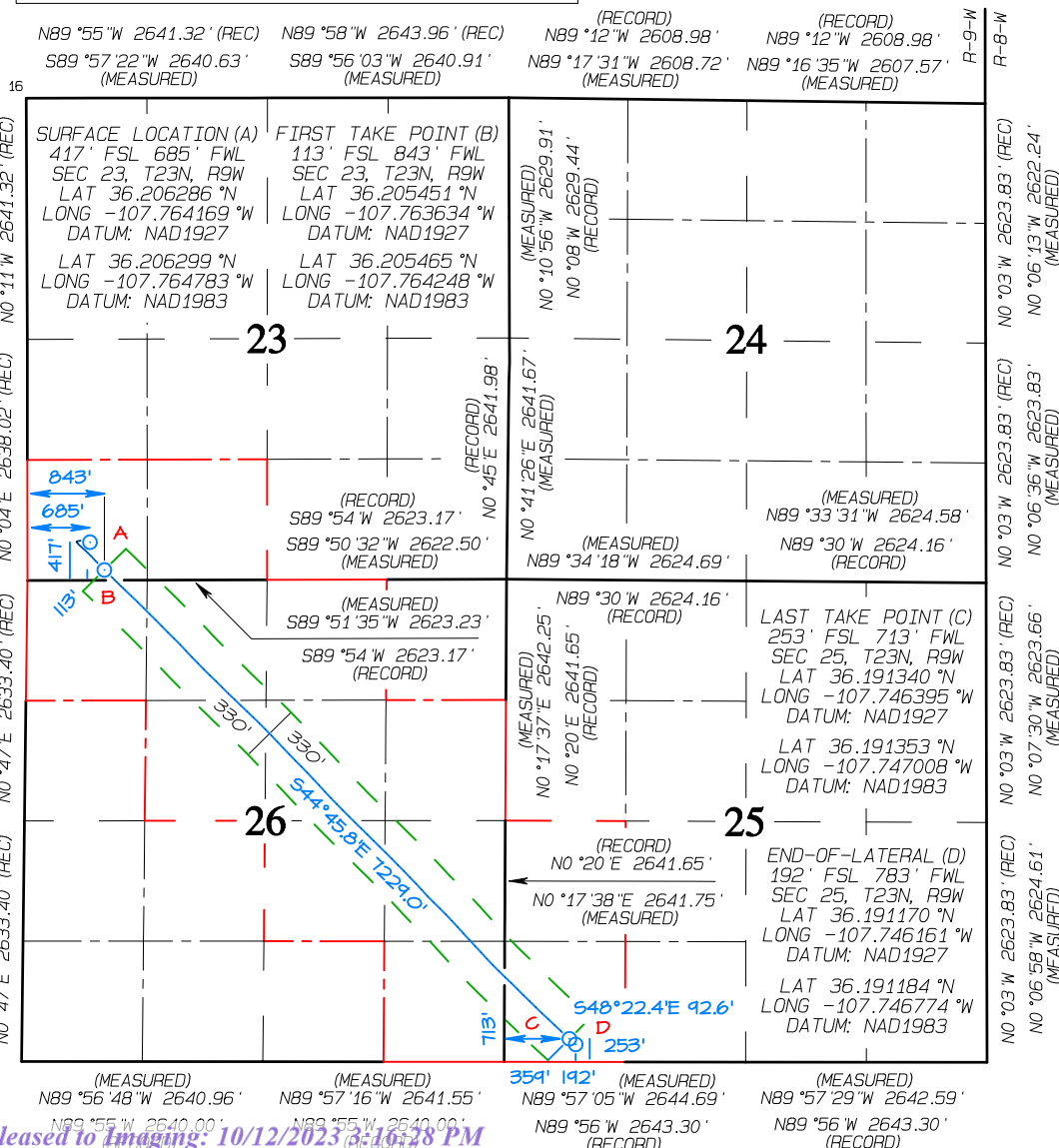
¹⁰ Surface Location

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

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	23N	9W		192	SOUTH	783	WEST	SAN JUAN

¹² Dedicated Acres 520.0	S/2 SW/4 - Section 23 W/2 SW/4 - Section 25 N/2 NW/4, SE/4 NW/4 W/2 NE/4, SE/4 NE/4 N/2 SE/4, SE/4 SE/4 - Section 26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-22081
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION				

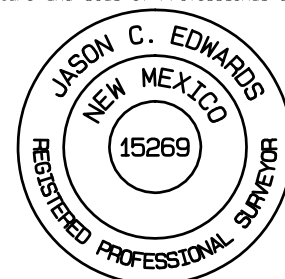


¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

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

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MAY 30, 2023
Date of Survey: MAY 20, 2021
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Reference	Surveys Original Hole		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,415.60ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Program	Date	4/26/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
416.00	2,466.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard
2,565.00	12,089.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
12,156.00	12,156.00	Projection (Original Hole)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Greater Lybrook Pad (48,49,50,51 & 52)						
Greater Lybrook Unit No. 048H - Original Hole - MWD su	0.00	0.00	39.92			
Greater Lybrook Unit No. 048H - Original Hole - MWD su	200.00	199.98	40.31	39.65	61.922 ES	
Greater Lybrook Unit No. 048H - Original Hole - MWD su	1,000.00	996.58	51.58	46.02	9.276 SF	
Greater Lybrook Unit No. 048H - Original Hole - rev2	0.00	0.00	39.92			
Greater Lybrook Unit No. 048H - Original Hole - rev2	300.00	300.00	40.68	39.33	30.248 ES	
Greater Lybrook Unit No. 048H - Original Hole - rev2	12,000.00	12,157.74	1,230.93	888.57	3.595 SF	
Greater Lybrook Unit No. 049H - Original Hole - rev2	0.00	0.00	19.95			
Greater Lybrook Unit No. 049H - Original Hole - rev2	1,400.00	1,399.94	27.88	18.86	3.092 ES	
Greater Lybrook Unit No. 049H - Original Hole - rev2	1,500.00	1,499.90	28.80	19.07	2.960 SF	
Greater Lybrook Unit No. 049H - Original Hole - Surveys	0.00	0.00	19.95			
Greater Lybrook Unit No. 049H - Original Hole - Surveys	200.00	199.98	20.37	19.72	31.301 ES	
Greater Lybrook Unit No. 049H - Original Hole - Surveys	1,400.00	1,399.86	28.63	20.20	3.397 SF	
Greater Lybrook Unit No. 050H - Original Hole - rev2	100.00	100.00	0.16	-0.11	0.585 Level 1<1.00, CC	
Greater Lybrook Unit No. 050H - Original Hole - rev2	6,228.02	6,228.53	1.02	-28.30	0.035 Level 1<1.00, SF	
Greater Lybrook Unit No. 050H - Original Hole - rev2	12,000.04	11,997.82	24.15	-102.12	0.191 Level 1<1.00, ES	
Greater Lybrook Unit No. 051H - Original Hole - rev2	1,603.76	1,603.60	33.14	22.67	3.165 CC, ES	
Greater Lybrook Unit No. 051H - Original Hole - rev2	12,156.00	11,826.43	720.74	455.07	2.713 SF	
Greater Lybrook Unit No. 051H - Original Hole - Surveys	1,540.89	1,540.63	38.52	29.08	4.079 CC, ES	
Greater Lybrook Unit No. 051H - Original Hole - Surveys	1,600.00	1,598.68	39.35	29.49	3.993 SF	
Greater Lybrook Unit No. 052H - Original Hole - rev2	1,514.20	1,513.69	53.31	43.48	5.424 CC, ES	
Greater Lybrook Unit No. 052H - Original Hole - rev2	12,156.00	12,356.35	1,193.47	842.53	3.401 SF	
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,339.95	1,339.75	52.60	44.67	6.629 CC	
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,400.00	1,399.13	52.95	44.60	6.341 ES	
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,600.00	1,597.28	58.58	48.84	6.016 SF	
Rodeo Unit 511 pad (511, 512 & 513)						
Rodeo Unit #512H - Original Hole - Surveys Original Hole	12,156.00	4,425.00	545.28	486.99	9.354 CC, ES, SF	
Rodeo Unit #513H - Original Hole - Surveys Original Hole	12,156.00	4,978.21	1,024.17	836.82	5.467 CC, ES, SF	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
W Lybrook 726 Pad (726, 728, 729, 760 & 761)						
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,183.33	1,185.98	144.36	137.55	21.193	CC
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,200.00	1,202.35	144.39	137.46	20.832	ES
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,600.00	1,588.38	164.99	155.14	16.746	SF
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,183.33	1,185.98	144.36	137.55	21.193	CC
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,200.00	1,202.35	144.39	137.46	20.832	ES
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,600.00	1,588.38	164.99	155.14	16.746	SF
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,743.25	1,752.70	113.26	102.36	10.389	CC, ES
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,800.00	1,806.48	114.49	103.15	10.100	SF
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,611.67	1,621.18	82.26	71.98	8.008	CC, ES
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,700.00	1,705.45	85.69	74.74	7.830	SF
W Lybrook Unit No. 760H - Original Hole - Surveys Origin	2,026.67	2,044.07	39.71	26.54	3.016	CC, ES, SF
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,371.04	1,377.77	135.78	127.60	16.598	CC
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,400.00	1,406.89	135.84	127.44	16.178	ES
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,600.00	1,598.50	145.20	135.32	14.697	SF

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 048H - Original Hole - MWD surveys Original Hole													Offset Site Error: 0.00 ft	
Survey Program: 416-MWD				Rule Assigned:									Offset Well Error: 0.00 ft	
Reference	Offset	Semi Major Axis			Offset Wellbore Centre				Distance			Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-131.77	-26.59	-29.78	39.92					
100.00	100.00	99.99	99.99	0.13	0.17	-121.30	-26.55	-29.84	40.02	39.72	0.30	132.068		
200.00	200.00	199.98	199.98	0.31	0.34	-121.56	-26.41	-30.02	40.31	39.65	0.65	61.922	ES	
300.00	300.00	299.97	299.97	0.49	0.51	-121.98	-26.18	-30.31	40.78	39.78	1.00	40.832		
400.00	399.99	399.95	399.95	0.67	0.67	-122.55	-25.85	-30.73	41.46	40.11	1.35	30.783		
500.00	499.98	500.02	500.01	1.00	1.00	-127.96	-25.34	-31.25	42.35	40.35	2.00	21.126		
600.00	599.96	599.86	599.85	1.36	1.36	-127.97	-24.73	-31.93	43.54	40.81	2.72	15.997		
700.00	699.95	699.72	699.71	1.72	1.72	-130.38	-24.41	-32.81	44.75	41.31	3.44	13.020		
800.00	799.95	799.68	799.66	2.08	2.07	-129.59	-24.38	-33.69	45.90	41.75	4.15	11.060		
900.00	899.95	899.01	898.99	2.44	2.43	-121.32	-24.64	-34.62	47.15	42.29	4.86	9.700		
1,000.00	999.95	996.58	996.44	2.79	2.77	-119.65	-26.32	-38.77	51.58	46.02	5.56	9.276	SF	
1,100.00	1,099.95	1,093.24	1,092.60	3.15	3.13	-124.68	-30.05	-47.74	61.35	55.10	6.25	9.821		
1,200.00	1,199.94	1,189.05	1,187.38	3.51	3.50	-133.15	-36.36	-60.21	75.88	68.96	6.92	10.967		
1,300.00	1,299.94	1,283.32	1,279.95	3.87	3.88	-154.54	-46.17	-75.04	95.07	87.51	7.57	12.561		
1,400.00	1,399.94	1,375.75	1,369.84	4.22	4.28	-161.73	-59.98	-91.45	118.89	110.69	8.20	14.498		
1,500.00	1,499.94	1,465.88	1,456.50	4.58	4.71	-161.65	-77.05	-109.41	147.13	138.33	8.80	16.717		
1,600.00	1,599.93	1,553.91	1,540.01	4.93	5.17	-139.96	-95.76	-129.98	179.39	170.00	9.39	19.106		
1,700.00	1,699.93	1,642.46	1,622.97	5.29	5.67	-128.80	-115.44	-153.87	214.60	204.59	10.00	21.456		
1,800.00	1,799.93	1,735.49	1,709.77	5.65	6.23	-104.57	-136.02	-180.27	250.75	240.05	10.70	23.441		
1,900.00	1,899.93	1,829.72	1,797.75	6.01	6.82	-103.21	-156.52	-207.07	286.64	275.22	11.41	25.113		
2,000.00	1,999.90	1,924.51	1,886.34	6.36	7.42	-43.92	-176.84	-233.96	320.88	308.75	12.13	26.455		
2,100.00	2,099.70	2,022.14	1,977.73	6.71	8.04	-44.96	-197.31	-261.56	351.86	338.99	12.87	27.336		
2,200.00	2,199.30	2,122.93	2,072.53	7.06	8.69	-46.73	-217.44	-289.26	379.89	366.23	13.66	27.813		
2,300.00	2,298.85	2,219.61	2,163.70	7.42	9.31	-47.20	-236.96	-314.80	406.98	392.58	14.40	28.260		
2,400.00	2,398.39	2,314.71	2,253.33	7.78	9.92	-46.39	-256.48	-339.88	434.19	419.06	15.13	28.690		
2,500.00	2,497.95	2,412.33	2,345.34	8.08	10.55	-45.32	-276.54	-365.61	461.37	445.53	15.83	29.136		
2,600.00	2,597.52	2,515.42	2,442.78	8.21	11.21	-44.40	-297.31	-392.11	487.71	471.28	16.43	29.687		
2,700.00	2,697.09	2,618.05	2,540.32	8.25	11.85	-44.44	-317.07	-417.16	512.36	495.43	16.92	30.275		
2,800.00	2,796.69	2,646.00	2,566.92	8.30	12.02	-42.12	-322.35	-423.91	541.13	524.49	16.64	32.515		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 048H - Original Hole - 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				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	2,896.32	2,646.00	2,566.92	8.37	12.02	-39.62	-322.35	-423.91	585.14	569.27	15.87	36.876		
3,000.00	2,995.99	2,646.00	2,566.92	8.46	12.02	-38.50	-322.35	-423.91	641.91	626.87	15.03	42.694		
3,100.00	3,095.65	2,646.00	2,566.92	8.56	12.02	-37.42	-322.35	-423.91	708.26	693.99	14.26	49.662		
3,200.00	3,195.34	2,646.00	2,566.92	8.68	12.02	-36.49	-322.35	-423.91	781.87	768.26	13.60	57.482		
3,300.00	3,295.04	2,646.00	2,566.92	8.81	12.02	-34.36	-322.35	-423.91	860.83	847.77	13.06	65.895		
3,400.00	3,394.76	2,646.00	2,566.92	8.95	12.02	-31.22	-322.35	-423.91	943.80	931.17	12.64	74.679		
3,500.00	3,494.46	2,646.00	2,566.92	9.11	12.02	-29.40	-322.35	-423.91	1,029.58	1,017.27	12.31	83.663		
3,600.00	3,594.16	2,646.00	2,566.92	9.28	12.02	-23.75	-322.35	-423.91	1,117.65	1,105.60	12.05	92.720		
3,700.00	3,693.91	2,646.00	2,566.92	9.46	12.02	-16.02	-322.35	-423.91	1,207.60	1,195.73	11.87	101.754		
3,800.00	3,793.72	2,646.00	2,566.92	9.64	12.02	-11.48	-322.35	-423.91	1,299.33	1,287.59	11.75	110.619		
3,900.00	3,893.71	2,646.00	2,566.92	9.82	12.02	18.26	-322.35	-423.91	1,393.75	1,382.06	11.69	119.200		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 048H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-131.77	-26.59	-29.78	39.92				
100.00	100.00	100.00	100.00	0.13	0.13	-121.41	-26.59	-29.78	40.01	39.74	0.27	148.726	
200.00	200.00	200.00	200.00	0.31	0.49	-121.98	-26.59	-29.78	40.25	39.45	0.81	49.889	
300.00	300.00	300.00	300.00	0.49	0.85	-122.92	-26.59	-29.78	40.68	39.33	1.34	30.248 ES	
400.00	399.99	399.99	399.99	0.67	1.21	-124.20	-26.59	-29.78	41.29	39.40	1.88	21.929	
500.00	499.98	499.98	499.98	1.00	1.57	-130.57	-26.59	-29.78	42.20	39.63	2.57	16.414	
600.00	599.96	599.96	599.96	1.36	1.93	-131.73	-26.59	-29.78	43.40	40.11	3.29	13.197	
700.00	699.95	699.95	699.95	1.72	2.29	-135.15	-26.59	-29.78	44.27	40.27	4.01	11.054	
800.00	799.95	799.95	799.95	2.08	2.64	-135.13	-26.59	-29.78	44.89	40.16	4.72	9.505	
900.00	899.95	899.95	899.95	2.44	3.00	-127.41	-26.59	-29.78	45.32	39.88	5.44	8.333	
1,000.00	999.95	999.88	999.88	2.79	3.36	-127.69	-26.60	-29.78	45.54	39.39	6.15	7.400	
1,100.00	1,099.95	1,097.50	1,097.45	3.15	3.68	-135.31	-28.25	-31.84	48.52	41.69	6.83	7.104	
1,200.00	1,199.94	1,194.57	1,194.21	3.51	4.01	-144.68	-32.98	-37.74	56.50	49.00	7.50	7.538	
1,300.00	1,299.94	1,290.58	1,289.42	3.87	4.35	-165.01	-40.68	-47.35	69.57	61.43	8.14	8.546	
1,400.00	1,399.94	1,385.03	1,382.37	4.22	4.70	-169.89	-51.17	-60.43	87.80	79.04	8.76	10.020	
1,500.00	1,499.94	1,477.49	1,472.43	4.58	5.07	-167.37	-64.20	-76.69	111.08	101.72	9.36	11.867	
1,600.00	1,599.93	1,567.65	1,559.20	4.93	5.47	-144.03	-79.52	-95.80	138.88	128.95	9.93	13.987	
1,700.00	1,699.93	1,655.36	1,642.40	5.29	5.89	-132.04	-96.87	-117.44	170.69	160.22	10.48	16.295	
1,800.00	1,799.93	1,744.81	1,726.05	5.65	6.36	-107.38	-116.67	-142.14	206.19	195.12	11.08	18.613	
1,900.00	1,899.93	1,838.11	1,813.13	6.01	6.88	-105.76	-137.62	-168.27	242.15	230.39	11.76	20.584	
2,000.00	1,999.90	1,931.91	1,900.69	6.36	7.43	-46.34	-158.68	-194.54	276.78	264.33	12.45	22.230	
2,100.00	2,099.70	2,026.66	1,989.12	6.71	8.01	-47.39	-179.96	-221.08	308.63	295.48	13.15	23.478	
2,200.00	2,199.30	2,121.87	2,077.99	7.06	8.60	-49.24	-201.33	-247.74	338.91	325.05	13.86	24.455	
2,300.00	2,298.85	2,217.14	2,166.91	7.42	9.20	-49.68	-222.72	-274.42	368.96	354.37	14.58	25.303	
2,400.00	2,398.39	2,312.47	2,255.89	7.78	9.82	-48.81	-244.13	-301.12	398.91	383.60	15.31	26.048	
2,500.00	2,497.95	2,407.84	2,344.90	8.08	10.44	-47.65	-265.54	-327.83	428.80	412.81	15.99	26.817	
2,600.00	2,597.52	2,503.25	2,433.95	8.21	11.07	-46.60	-286.96	-354.55	458.59	442.08	16.51	27.781	
2,700.00	2,697.09	2,598.71	2,523.05	8.25	11.70	-46.49	-308.39	-381.28	488.28	471.33	16.94	28.816	
2,800.00	2,796.69	2,694.16	2,612.13	8.30	12.34	-44.31	-329.82	-408.02	518.03	500.63	17.40	29.770	
2,900.00	2,896.32	2,789.62	2,701.23	8.37	12.99	-41.92	-351.25	-434.75	547.78	529.91	17.87	30.647	
3,000.00	2,995.99	2,885.06	2,790.32	8.46	13.64	-40.85	-372.68	-461.48	577.61	559.25	18.36	31.457	
3,100.00	3,095.65	2,980.53	2,879.42	8.56	14.29	-39.78	-394.12	-488.22	607.36	588.49	18.87	32.193	
3,200.00	3,195.34	3,075.97	2,968.50	8.68	14.94	-38.76	-415.55	-514.95	637.20	617.82	19.38	32.872	
3,300.00	3,295.04	3,171.41	3,057.58	8.81	15.60	-36.41	-436.98	-541.68	667.06	647.14	19.92	33.493	
3,400.00	3,394.76	3,266.85	3,146.66	8.95	16.25	-32.96	-458.40	-568.40	696.91	676.45	20.46	34.062	
3,500.00	3,494.46	3,362.42	3,235.87	9.11	16.91	-31.06	-479.86	-595.17	726.32	705.30	21.02	34.560	
3,600.00	3,594.16	3,458.04	3,325.12	9.28	17.58	-24.36	-501.33	-621.95	755.58	733.99	21.58	35.008	
3,700.00	3,693.91	3,553.63	3,414.33	9.46	18.24	-15.45	-522.79	-648.72	784.87	762.71	22.15	35.426	
3,800.00	3,793.72	3,648.94	3,503.29	9.64	18.90	-8.71	-544.19	-675.41	814.96	792.23	22.74	35.844	
3,900.00	3,893.71	3,742.70	3,590.80	9.82	19.56	22.55	-565.24	-701.67	849.46	826.14	23.31	36.439	
4,000.00	3,993.71	3,836.20	3,678.07	10.00	20.21	17.39	-586.24	-727.86	884.65	860.76	23.89	37.032	
4,100.00	4,093.56	3,929.50	3,765.16	10.18	20.86	81.46	-607.18	-753.99	919.57	895.12	24.45	37.608	
4,200.00	4,191.71	4,020.88	3,850.45	10.34	21.50	83.23	-627.70	-779.58	953.61	928.64	24.97	38.195	
4,300.00	4,285.99	4,107.66	3,931.44	10.50	22.11	86.54	-647.18	-803.88	988.58	963.12	25.47	38.817	
4,400.00	4,374.16	4,187.09	4,005.58	10.66	22.66	86.84	-665.02	-826.13	1,026.87	1,000.87	26.00	39.491	
4,500.00	4,454.00	4,265.46	4,078.73	10.84	23.21	84.17	-683.11	-847.60	1,066.48	1,039.79	26.70	39.949	
4,600.00	4,522.75	4,369.89	4,175.54	11.34	23.90	82.32	-716.95	-866.58	1,103.18	1,075.34	27.84	39.629	
4,700.00	4,577.65	4,501.29	4,291.94	12.09	24.65	83.13	-777.13	-870.79	1,136.26	1,106.87	29.39	38.658	
4,800.00	4,621.40	4,680.79	4,431.00	13.11	25.49	86.03	-885.46	-841.03	1,166.00	1,134.70	31.30	37.248	
4,900.00	4,652.61	4,863.89	4,537.20	14.41	26.17	87.37	-1,016.74	-771.96	1,189.61	1,156.17	33.44	35.574	
5,000.00	4,666.66	5,135.75	4,629.40	15.93	27.18	88.44	-1,221.74	-623.37	1,206.79	1,170.30	36.50	33.067	
5,100.00	4,669.58	5,298.20	4,634.52	17.61	27.94	88.32	-1,338.99	-511.33	1,208.99	1,169.20	39.79	30.387	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 048H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.00	4,666.89	5,398.14	4,634.10	19.43	28.60	88.38	-1,410.24	-441.25	1,211.52	1,168.53	42.99	28.182	
5,300.00	4,664.19	5,498.03	4,633.69	21.34	29.46	88.54	-1,481.46	-371.21	1,215.48	1,169.06	46.41	26.187	
5,400.00	4,663.31	5,598.01	4,633.27	23.31	30.52	88.58	-1,552.74	-301.09	1,216.89	1,166.86	50.03	24.325	
5,500.00	4,660.98	5,697.99	4,632.85	25.34	31.76	88.65	-1,624.02	-230.99	1,217.97	1,164.23	53.74	22.665	
5,600.00	4,659.81	5,797.96	4,632.44	27.41	33.17	88.71	-1,695.29	-160.89	1,219.66	1,162.04	57.62	21.167	
5,671.16	4,660.50	5,869.11	4,632.14	28.90	34.26	88.67	-1,746.02	-110.99	1,219.84	1,159.42	60.43	20.187	
5,700.00	4,661.14	5,897.94	4,632.02	29.50	34.72	88.64	-1,766.57	-90.78	1,219.67	1,158.08	61.58	19.805	
5,800.00	4,661.23	5,997.94	4,631.61	31.63	36.38	88.61	-1,837.86	-20.66	1,220.12	1,154.50	65.62	18.593	
5,900.00	4,658.93	6,097.91	4,631.19	33.78	38.12	88.65	-1,909.14	49.44	1,221.40	1,151.68	69.72	17.518	
6,000.00	4,657.08	6,197.89	4,630.78	35.94	39.94	88.77	-1,980.41	119.55	1,221.50	1,147.62	73.87	16.535	
6,100.00	4,655.96	6,297.86	4,630.36	38.10	41.82	88.82	-2,051.69	189.65	1,219.32	1,141.27	78.05	15.622	
6,200.00	4,653.59	6,397.82	4,629.94	40.27	43.74	88.90	-2,122.95	259.74	1,217.22	1,134.95	82.27	14.795	
6,287.37	4,653.88	6,485.18	4,629.58	42.19	45.45	88.86	-2,185.23	321.00	1,216.50	1,130.50	86.00	14.145	
6,300.00	4,654.93	6,497.79	4,629.53	42.47	45.70	88.81	-2,194.22	329.84	1,216.65	1,130.11	86.54	14.058	
6,400.00	4,657.38	6,597.74	4,629.11	44.68	47.70	88.68	-2,265.48	399.93	1,217.27	1,126.41	90.86	13.398	
6,500.00	4,658.73	6,697.72	4,628.70	46.90	49.73	88.59	-2,336.76	470.04	1,218.69	1,123.50	95.19	12.802	
6,600.00	4,658.53	6,797.70	4,628.28	49.13	51.78	88.57	-2,408.04	540.15	1,220.32	1,120.77	99.55	12.258	
6,700.00	4,656.34	6,897.67	4,627.87	51.37	53.85	88.63	-2,479.31	610.25	1,222.19	1,118.26	103.93	11.760	
6,800.00	4,653.02	6,997.60	4,627.45	53.62	55.94	88.79	-2,550.56	680.32	1,224.08	1,115.76	108.32	11.301	
6,900.00	4,653.18	7,097.57	4,627.04	55.87	58.05	88.80	-2,621.83	750.43	1,226.17	1,113.43	112.74	10.876	
7,000.00	4,654.18	7,197.49	4,626.62	58.14	60.17	88.72	-2,693.07	820.49	1,229.92	1,112.74	117.17	10.497	
7,100.00	4,655.11	7,297.42	4,626.20	60.40	62.30	88.70	-2,764.31	890.56	1,233.40	1,111.78	121.62	10.141	
7,200.00	4,658.90	7,397.32	4,625.79	62.66	64.45	88.49	-2,835.53	960.61	1,235.13	1,109.06	126.07	9.797	
7,300.00	4,661.78	7,497.24	4,625.37	64.92	66.60	88.34	-2,906.77	1,030.68	1,237.03	1,106.50	130.53	9.477	
7,400.00	4,663.68	7,597.21	4,624.96	67.18	68.77	88.19	-2,978.04	1,100.78	1,237.58	1,102.60	134.98	9.169	
7,500.00	4,665.04	7,697.17	4,624.54	69.41	70.94	88.11	-3,049.30	1,170.87	1,235.58	1,096.16	139.42	8.862	
7,600.00	4,664.82	7,797.15	4,624.13	71.66	73.12	88.13	-3,120.58	1,240.98	1,233.65	1,089.78	143.87	8.575	
7,700.00	4,662.48	7,897.11	4,623.71	73.90	75.30	88.22	-3,191.85	1,311.07	1,231.76	1,083.43	148.33	8.304	
7,768.20	4,660.19	7,965.28	4,623.43	75.44	76.80	88.29	-3,240.45	1,358.88	1,231.29	1,079.92	151.38	8.134	
7,800.00	4,659.07	7,997.06	4,623.30	76.16	77.50	88.32	-3,263.11	1,381.16	1,231.59	1,078.79	152.80	8.060	
7,900.00	4,655.02	8,096.99	4,622.88	78.42	79.69	88.51	-3,334.35	1,451.24	1,231.95	1,074.67	157.28	7.833	
8,000.00	4,653.14	8,196.96	4,622.47	80.67	81.90	88.58	-3,405.62	1,521.33	1,230.04	1,068.28	161.76	7.604	
8,100.00	4,652.74	8,296.92	4,622.05	82.91	84.10	88.57	-3,476.89	1,591.43	1,227.17	1,060.94	166.23	7.383	
8,200.00	4,652.27	8,396.87	4,621.63	85.15	86.32	88.58	-3,548.15	1,661.51	1,224.03	1,053.34	170.70	7.171	
8,300.00	4,650.67	8,496.83	4,621.22	87.40	88.53	88.65	-3,619.41	1,731.61	1,221.63	1,046.45	175.18	6.974	
8,400.00	4,648.42	8,596.80	4,620.80	89.66	90.75	88.71	-3,690.68	1,801.71	1,219.81	1,040.14	179.67	6.789	
8,499.90	4,647.97	8,696.70	4,620.39	91.92	92.97	88.70	-3,761.90	1,871.76	1,219.29	1,035.12	184.17	6.621	
8,500.00	4,648.28	8,696.80	4,620.39	91.92	92.97	88.69	-3,761.97	1,871.83	1,219.60	1,035.42	184.17	6.622	
8,513.29	4,648.32	8,710.09	4,620.33	92.22	93.27	88.69	-3,771.45	1,881.15	1,219.59	1,034.82	184.77	6.600	
8,600.00	4,648.67	8,796.79	4,619.97	94.19	95.20	88.65	-3,833.27	1,941.95	1,219.66	1,030.98	188.69	6.464	
8,700.00	4,648.52	8,896.78	4,619.56	96.47	97.43	88.63	-3,904.55	2,012.06	1,220.82	1,027.62	193.21	6.319	
8,800.00	4,647.35	8,996.75	4,619.14	98.76	99.66	88.65	-3,975.82	2,082.16	1,223.35	1,025.60	197.74	6.187	
8,900.00	4,646.47	9,096.71	4,618.73	101.04	101.89	88.70	-4,047.09	2,152.26	1,225.49	1,023.22	202.28	6.059	
8,969.04	4,647.14	9,165.75	4,618.44	102.61	103.44	88.66	-4,096.31	2,200.66	1,225.73	1,020.33	205.40	5.968	
9,000.00	4,647.77	9,196.70	4,618.31	103.32	104.13	88.63	-4,118.37	2,222.37	1,225.53	1,018.73	206.80	5.926	
9,100.00	4,647.91	9,296.69	4,617.89	105.60	106.37	88.59	-4,189.66	2,292.48	1,226.65	1,015.32	211.33	5.804	
9,200.00	4,645.87	9,396.65	4,617.48	107.89	108.61	88.63	-4,260.92	2,362.58	1,228.76	1,012.89	215.87	5.692	
9,300.00	4,644.68	9,496.63	4,617.06	110.17	110.85	88.71	-4,332.21	2,432.69	1,229.90	1,009.49	220.41	5.580	
9,400.00	4,645.90	9,596.62	4,616.65	112.44	113.10	88.64	-4,403.49	2,502.80	1,229.88	1,004.94	224.93	5.468	
9,500.00	4,648.38	9,696.57	4,616.23	114.71	115.34	88.49	-4,474.75	2,572.89	1,229.24	999.79	229.45	5.357	
9,600.00	4,652.60	9,796.46	4,615.82	116.98	117.59	88.27	-4,545.96	2,642.93	1,228.87	994.91	233.96	5.252	
9,700.00	4,655.75	9,896.37	4,615.40	119.23	119.84	88.06	-4,617.19	2,712.99	1,226.78	988.31	238.47	5.144	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 048H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,800.00	4,659.08	9,996.24	4,614.99	121.48	122.08	87.90	-4,688.39	2,783.02	1,223.45	980.49	242.95	5.036	
9,900.00	4,658.60	10,096.20	4,614.57	123.74	124.34	87.94	-4,759.66	2,853.11	1,221.11	973.63	247.47	4.934	
9,916.53	4,658.30	10,112.73	4,614.50	124.12	124.71	87.94	-4,771.44	2,864.70	1,221.07	972.84	248.22	4.919	
10,000.00	4,656.51	10,196.17	4,614.15	126.03	126.59	87.98	-4,830.93	2,923.21	1,222.71	970.69	252.02	4.852	
10,100.00	4,653.92	10,296.12	4,613.74	128.31	128.84	88.12	-4,902.19	2,993.30	1,224.53	967.95	256.58	4.773	
10,200.00	4,654.13	10,396.10	4,613.32	130.58	131.10	88.08	-4,973.47	3,063.41	1,223.15	962.04	261.10	4.685	
10,300.00	4,655.04	10,496.07	4,612.91	132.84	133.35	88.05	-5,044.74	3,133.51	1,221.53	955.91	265.62	4.599	
10,400.00	4,652.21	10,595.95	4,612.49	135.09	135.61	88.20	-5,115.95	3,203.55	1,217.19	947.05	270.13	4.506	
10,500.00	4,649.97	10,695.86	4,612.08	137.34	137.87	88.23	-5,187.18	3,273.61	1,213.35	938.70	274.65	4.418	
10,600.00	4,650.23	10,795.80	4,611.66	139.59	140.13	88.15	-5,258.43	3,343.69	1,210.06	930.90	279.16	4.335	
10,700.00	4,650.17	10,895.75	4,611.25	141.85	142.38	88.20	-5,329.69	3,413.77	1,207.30	923.63	283.67	4.256	
10,800.00	4,647.38	10,995.68	4,610.83	144.10	144.65	88.30	-5,400.93	3,483.85	1,204.47	916.26	288.20	4.179	
10,900.00	4,646.16	11,095.66	4,610.42	146.37	146.91	88.30	-5,472.21	3,553.95	1,202.61	909.88	292.74	4.108	
10,932.82	4,646.12	11,128.48	4,610.28	147.12	147.65	88.29	-5,495.60	3,576.96	1,202.44	908.22	294.23	4.087	
11,000.00	4,645.82	11,195.65	4,610.00	148.65	149.17	88.29	-5,543.50	3,624.07	1,203.21	905.93	297.29	4.047	
11,100.00	4,646.73	11,295.61	4,609.58	150.95	151.43	88.26	-5,614.76	3,694.16	1,205.95	904.11	301.85	3.995	
11,200.00	4,646.41	11,395.58	4,609.17	153.24	153.70	88.22	-5,686.03	3,764.26	1,208.04	901.64	306.41	3.943	
11,300.00	4,643.45	11,495.54	4,608.75	155.53	155.96	88.34	-5,757.30	3,834.36	1,208.77	897.79	310.98	3.887	
11,400.00	4,642.72	11,595.53	4,608.34	157.82	158.23	88.38	-5,828.58	3,904.47	1,209.94	894.41	315.53	3.835	
11,500.00	4,643.70	11,695.49	4,607.92	160.12	160.49	88.33	-5,899.85	3,974.57	1,212.14	892.05	320.09	3.787	
11,600.00	4,645.75	11,795.42	4,607.51	162.41	162.76	88.23	-5,971.09	4,044.64	1,215.05	890.41	324.65	3.743	
11,700.00	4,647.13	11,895.37	4,607.09	164.72	165.02	88.14	-6,042.35	4,114.72	1,217.90	888.70	329.21	3.700	
11,800.00	4,648.08	11,995.26	4,606.68	167.02	167.29	88.06	-6,113.57	4,184.77	1,222.28	888.51	333.77	3.662	
11,900.00	4,647.47	12,095.20	4,606.26	169.33	169.56	88.05	-6,184.82	4,254.85	1,225.68	887.32	338.35	3.622	
12,000.00	4,646.52	12,157.74	4,606.00	171.64	170.98	88.04	-6,229.40	4,298.70	1,230.93	888.57	342.35	3.595 SF	
12,100.00	4,645.14	12,157.74	4,606.00	173.89	170.98	88.04	-6,229.40	4,298.70	1,244.01	900.79	343.21	3.625	
12,156.00	4,644.46	12,157.74	4,606.00	174.81	170.98	88.04	-6,229.40	4,298.70	1,255.13	913.00	342.13	3.669	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 049H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-131.10	-13.12	-15.04	19.95				
100.00	100.00	100.00	100.00	0.13	0.13	-120.93	-13.12	-15.04	20.03	19.76	0.27	74.474	
200.00	200.00	200.00	200.00	0.31	0.49	-122.08	-13.12	-15.04	20.28	19.47	0.81	25.133	
300.00	300.00	300.00	300.00	0.49	0.85	-123.92	-13.12	-15.04	20.71	19.36	1.34	15.399	
400.00	399.99	399.99	399.99	0.67	1.21	-126.37	-13.12	-15.04	21.34	19.46	1.88	11.336	
500.00	499.98	499.98	499.98	1.00	1.57	-134.12	-13.12	-15.04	22.32	19.75	2.57	8.681	
600.00	599.96	599.96	599.96	1.36	1.93	-136.62	-13.12	-15.04	23.61	20.32	3.29	7.179	
700.00	699.95	699.95	699.95	1.72	2.29	-140.84	-13.12	-15.04	24.57	20.56	4.01	6.134	
800.00	799.95	799.95	799.95	2.08	2.64	-141.27	-13.12	-15.04	25.24	20.52	4.72	5.345	
900.00	899.95	899.95	899.95	2.44	3.00	-133.91	-13.12	-15.04	25.73	20.29	5.44	4.731	
1,000.00	999.95	999.95	999.95	2.79	3.36	-134.45	-13.12	-15.04	25.98	19.83	6.16	4.221	
1,100.00	1,099.95	1,099.95	1,099.95	3.15	3.72	-143.01	-13.12	-15.04	26.36	19.49	6.87	3.836	
1,200.00	1,199.94	1,199.94	1,199.94	3.51	4.08	-154.27	-13.12	-15.04	26.74	19.15	7.59	3.524	
1,300.00	1,299.94	1,299.94	1,299.94	3.87	4.44	-176.63	-13.12	-15.04	27.20	18.90	8.30	3.276	
1,400.00	1,399.94	1,399.94	1,399.94	4.22	4.79	-176.83	-13.12	-15.04	27.88	18.86	9.02	3.092 ES	
1,500.00	1,499.94	1,499.90	1,499.90	4.58	5.15	-178.07	-13.12	-15.04	28.80	19.07	9.73	2.960 SF	
1,600.00	1,599.93	1,598.43	1,598.39	4.93	5.48	-157.54	-14.57	-17.30	32.07	21.67	10.40	3.083	
1,700.00	1,699.93	1,696.41	1,696.05	5.29	5.81	-141.99	-18.72	-23.80	39.71	28.66	11.05	3.594	
1,800.00	1,799.93	1,793.34	1,792.15	5.65	6.15	-113.46	-25.48	-34.36	52.30	40.63	11.67	4.483	
1,900.00	1,899.93	1,888.75	1,886.01	6.01	6.49	-108.72	-34.70	-48.76	69.87	57.62	12.25	5.703	
2,000.00	1,999.90	1,982.58	1,977.37	6.36	6.85	-47.69	-46.21	-66.75	91.01	78.22	12.79	7.113	
2,100.00	2,099.70	2,078.70	2,070.07	6.71	7.25	-48.41	-59.90	-88.13	112.97	99.55	13.43	8.415	
2,200.00	2,199.30	2,176.54	2,164.38	7.06	7.67	-50.44	-73.94	-110.09	133.57	119.44	14.12	9.457	
2,300.00	2,298.85	2,274.43	2,258.73	7.42	8.11	-50.99	-88.00	-132.05	153.90	139.07	14.83	10.379	
2,400.00	2,398.39	2,372.35	2,353.11	7.78	8.56	-50.11	-102.06	-154.02	174.11	158.57	15.54	11.203	
2,500.00	2,497.95	2,470.30	2,447.52	8.08	9.03	-48.84	-116.13	-176.00	194.23	178.03	16.20	11.990	
2,600.00	2,597.52	2,568.27	2,541.95	8.21	9.51	-47.65	-130.19	-197.98	214.22	197.53	16.69	12.833	
2,700.00	2,697.09	2,666.28	2,636.41	8.25	9.99	-47.38	-144.27	-219.97	234.09	216.99	17.10	13.689	
2,800.00	2,796.69	2,764.27	2,730.87	8.30	10.49	-44.99	-158.34	-241.96	254.01	236.49	17.53	14.492	
2,900.00	2,896.32	2,862.27	2,825.33	8.37	10.99	-42.33	-172.41	-263.95	273.92	255.95	17.97	15.243	
3,000.00	2,995.99	2,960.25	2,919.77	8.46	11.50	-41.01	-186.48	-285.93	293.90	275.47	18.43	15.948	
3,100.00	3,095.65	3,058.25	3,014.22	8.56	12.01	-39.70	-200.55	-307.92	313.80	294.90	18.90	16.601	
3,200.00	3,195.34	3,156.22	3,108.66	8.68	12.53	-38.45	-214.62	-329.90	333.80	314.41	19.39	17.213	
3,300.00	3,295.04	3,254.19	3,203.09	8.81	13.05	-35.84	-228.69	-351.88	353.82	333.92	19.90	17.784	
3,400.00	3,394.76	3,352.15	3,297.51	8.95	13.57	-32.15	-242.75	-373.86	373.84	353.43	20.41	18.317	
3,500.00	3,494.46	3,450.20	3,392.01	9.11	14.10	-30.01	-256.83	-395.86	393.42	372.48	20.94	18.790	
3,600.00	3,594.16	3,548.27	3,486.54	9.28	14.63	-23.03	-270.92	-417.87	412.86	391.38	21.48	19.224	
3,700.00	3,693.91	3,646.29	3,581.02	9.46	15.16	-13.78	-284.99	-439.86	432.38	410.36	22.02	19.637	
3,800.00	3,793.72	3,744.07	3,675.32	9.64	15.69	-6.92	-300.69	-460.21	452.77	430.20	22.57	20.061	
3,900.00	3,893.71	3,839.22	3,766.39	9.82	16.16	22.69	-326.00	-470.04	477.88	454.79	23.10	20.690	
4,000.00	3,993.71	3,928.26	3,848.90	10.00	16.55	14.41	-359.22	-468.96	504.89	481.34	23.55	21.441	
4,100.00	4,093.56	4,009.72	3,920.34	10.18	16.87	75.08	-397.01	-459.30	534.18	510.31	23.87	22.379	
4,200.00	4,191.71	4,087.30	3,983.42	10.34	17.15	73.15	-438.84	-442.55	564.44	540.38	24.06	23.463	
4,300.00	4,285.99	4,161.61	4,038.22	10.50	17.40	72.56	-483.54	-419.90	596.09	571.93	24.17	24.665	
4,400.00	4,374.16	4,233.15	4,084.91	10.66	17.63	69.30	-530.15	-392.35	629.64	605.35	24.29	25.917	
4,500.00	4,454.00	4,303.10	4,124.09	10.84	17.88	63.67	-578.41	-360.37	661.34	636.82	24.53	26.965	
4,600.00	4,522.75	4,389.57	4,167.13	11.34	18.22	58.88	-639.72	-317.18	685.46	660.23	25.22	27.175	
4,700.00	4,577.65	4,460.65	4,196.99	12.09	18.58	57.02	-691.22	-278.44	702.02	675.92	26.11	26.890	
4,800.00	4,621.40	4,531.04	4,218.84	13.11	19.03	56.08	-743.06	-236.20	716.31	688.97	27.34	26.201	
4,900.00	4,652.61	4,600.00	4,232.47	14.41	19.59	55.30	-793.90	-191.71	728.82	699.90	28.92	25.199	
5,000.00	4,666.66	4,670.22	4,238.23	15.93	20.29	54.46	-844.95	-143.90	736.11	705.20	30.91	23.817	
5,100.00	4,669.58	4,762.78	4,238.01	17.61	21.38	54.26	-910.99	-79.05	739.23	705.88	33.34	22.170	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 049H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.00	4,666.89	4,862.72	4,237.50	19.43	22.77	54.48	-982.24	-8.97	740.06	703.89	36.18	20.456	
5,300.00	4,664.19	4,962.61	4,237.00	21.34	24.31	54.83	-1,053.45	61.07	742.07	702.86	39.21	18.926	
5,400.00	4,663.31	5,062.60	4,236.50	23.31	25.98	54.94	-1,124.74	131.19	743.02	700.72	42.30	17.565	
5,473.49	4,661.84	5,136.07	4,236.13	24.80	27.27	55.03	-1,177.12	182.71	743.16	698.50	44.66	16.639	
5,500.00	4,660.98	5,162.57	4,236.00	25.34	27.75	55.08	-1,196.01	201.29	742.90	697.37	45.53	16.317	
5,600.00	4,659.81	5,262.54	4,235.50	27.41	29.59	55.23	-1,267.29	271.39	743.91	695.08	48.83	15.234	
5,700.00	4,661.14	5,362.53	4,235.00	29.50	31.49	55.11	-1,338.57	341.50	744.93	692.84	52.09	14.301	
5,800.00	4,661.23	5,462.52	4,234.49	31.63	33.44	55.09	-1,409.86	411.62	745.64	690.19	55.45	13.448	
5,824.63	4,660.86	5,487.15	4,234.37	32.16	33.93	55.10	-1,427.42	428.89	745.62	689.33	56.29	13.245	
5,900.00	4,658.93	5,562.49	4,233.99	33.78	35.44	55.23	-1,481.13	481.72	745.70	686.74	58.95	12.649	
6,000.00	4,657.08	5,662.47	4,233.49	35.94	37.46	55.35	-1,552.41	551.83	745.03	682.58	62.45	11.930	
6,100.00	4,655.96	5,762.45	4,232.99	38.10	39.52	55.31	-1,623.68	621.93	742.91	677.04	65.87	11.278	
6,200.00	4,653.59	5,862.41	4,232.49	40.27	41.60	55.33	-1,694.95	692.02	740.14	670.78	69.36	10.671	
6,248.65	4,653.29	5,911.05	4,232.24	41.34	42.62	55.30	-1,729.63	726.13	739.64	668.59	71.05	10.410	
6,300.00	4,654.93	5,962.37	4,231.99	42.47	43.70	55.20	-1,766.22	762.12	740.70	667.94	72.76	10.180	
6,400.00	4,657.38	6,062.33	4,231.48	44.68	45.82	55.03	-1,837.48	832.21	742.84	666.68	76.16	9.754	
6,500.00	4,658.73	6,162.30	4,230.98	46.90	47.96	54.96	-1,908.75	902.31	745.04	665.39	79.64	9.354	
6,600.00	4,658.53	6,262.28	4,230.48	49.13	50.11	55.00	-1,980.04	972.42	746.54	663.31	83.23	8.970	
6,700.00	4,656.34	6,362.25	4,229.98	51.37	52.27	55.18	-2,051.30	1,042.52	747.15	660.20	86.95	8.593	
6,767.96	4,654.51	6,430.18	4,229.64	52.90	53.74	55.34	-2,099.74	1,090.16	747.37	657.86	89.51	8.350	
6,800.00	4,653.02	6,462.19	4,229.48	53.62	54.44	55.45	-2,122.55	1,112.60	747.15	656.39	90.76	8.232	
6,900.00	4,653.18	6,562.16	4,228.97	55.87	56.62	55.52	-2,193.83	1,182.70	749.24	654.85	94.38	7.938	
7,000.00	4,654.18	6,662.08	4,228.47	58.14	58.81	55.56	-2,265.06	1,252.77	753.15	655.11	98.05	7.681	
7,100.00	4,655.11	6,762.00	4,227.97	60.40	61.00	55.67	-2,336.30	1,322.83	756.81	655.10	101.71	7.441	
7,200.00	4,658.90	6,861.90	4,227.47	62.66	63.20	55.48	-2,407.52	1,392.88	760.58	655.50	105.08	7.238	
7,300.00	4,661.78	6,961.82	4,226.97	64.92	65.41	55.33	-2,478.76	1,462.95	763.99	655.48	108.51	7.041	
7,400.00	4,663.68	7,061.78	4,226.47	67.18	67.62	55.17	-2,550.02	1,533.04	765.75	653.84	111.91	6.842	
7,500.00	4,665.04	7,161.74	4,225.97	69.41	69.84	54.98	-2,621.29	1,603.14	765.13	649.95	115.18	6.643	
7,600.00	4,664.82	7,261.72	4,225.46	71.66	72.06	54.89	-2,692.57	1,673.24	763.71	645.15	118.56	6.442	
7,700.00	4,662.48	7,361.68	4,224.96	73.90	74.29	54.94	-2,763.83	1,743.34	761.15	639.05	122.10	6.234	
7,800.00	4,659.07	7,461.64	4,224.46	76.16	76.52	55.09	-2,835.10	1,813.43	759.42	633.56	125.86	6.034	
7,900.00	4,655.02	7,561.58	4,223.96	78.42	78.75	55.35	-2,906.34	1,883.50	757.77	628.04	129.73	5.841	
8,000.00	4,653.14	7,661.54	4,223.46	80.67	80.99	55.33	-2,977.61	1,953.60	755.45	622.21	133.23	5.670	
8,100.00	4,652.74	7,761.50	4,222.96	82.91	83.22	55.20	-3,048.88	2,023.69	753.14	616.63	136.51	5.517	
8,200.00	4,652.27	7,861.45	4,222.45	85.15	85.46	55.07	-3,120.13	2,093.78	750.59	610.84	139.75	5.371	
8,300.00	4,650.67	7,961.41	4,221.95	87.40	87.71	55.05	-3,191.40	2,163.88	748.01	604.87	143.14	5.226	
8,400.00	4,648.42	8,061.38	4,221.45	89.66	89.95	55.07	-3,262.67	2,233.98	745.55	598.91	146.64	5.084	
8,474.74	4,647.93	8,136.12	4,221.07	91.35	91.63	55.05	-3,315.96	2,286.39	745.11	595.90	149.21	4.994	
8,500.00	4,648.28	8,161.38	4,220.95	91.92	92.20	55.03	-3,333.96	2,304.10	745.58	595.53	150.05	4.969	
8,600.00	4,648.67	8,261.38	4,220.45	94.19	94.45	54.98	-3,405.25	2,374.21	746.13	592.72	153.42	4.863	
8,700.00	4,648.52	8,361.37	4,219.94	96.47	96.70	54.99	-3,476.54	2,444.33	747.28	590.34	156.94	4.762	
8,800.00	4,647.35	8,461.33	4,219.44	98.76	98.96	55.12	-3,547.81	2,514.43	748.98	588.27	160.71	4.660	
8,900.00	4,646.47	8,561.30	4,218.94	101.04	101.21	55.28	-3,619.08	2,584.52	750.54	586.12	164.42	4.565	
9,000.00	4,647.77	8,661.28	4,218.44	103.32	103.47	55.17	-3,690.36	2,654.63	751.56	583.92	167.64	4.483	
9,100.00	4,647.91	8,761.27	4,217.94	105.60	105.72	55.16	-3,761.65	2,724.75	752.84	581.74	171.11	4.400	
9,200.00	4,645.87	8,861.23	4,217.44	107.89	107.98	55.33	-3,832.91	2,794.84	753.73	578.77	174.95	4.308	
9,300.00	4,644.68	8,961.22	4,216.93	110.17	110.24	55.45	-3,904.19	2,864.95	754.30	575.71	178.59	4.224	
9,400.00	4,645.90	9,061.20	4,216.43	112.44	112.50	55.35	-3,975.48	2,935.06	755.22	573.45	181.77	4.155	
9,500.00	4,648.38	9,161.15	4,215.93	114.71	114.76	55.13	-4,046.73	3,005.15	756.34	571.66	184.68	4.095	
9,600.00	4,652.60	9,261.04	4,215.43	116.98	117.02	54.83	-4,117.95	3,075.19	758.64	571.31	187.33	4.050	
9,700.00	4,655.75	9,360.94	4,214.93	119.23	119.29	54.46	-4,189.17	3,145.25	758.95	569.07	189.89	3.997	
9,800.00	4,659.08	9,460.81	4,214.43	121.48	121.55	54.07	-4,260.37	3,215.27	758.38	566.18	192.20	3.946	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 049H - Original Hole - rev2											Offset Site Error:	0.00 ft
Survey Program: 0-MWD											Offset Well Error:	0.00 ft
Rule Assigned:											Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
9,900.00	4,658.60	9,560.77	4,213.92	123.74	123.81	54.00	-4,331.63	3,285.37	756.50	561.33	195.17	3.876
9,958.02	4,657.45	9,618.78	4,213.63	125.07	125.13	54.05	-4,373.00	3,326.05	756.19	558.95	197.23	3.834
10,000.00	4,656.51	9,660.74	4,213.42	126.03	126.08	54.14	-4,402.91	3,355.47	756.91	558.00	198.91	3.805
10,100.00	4,653.92	9,760.69	4,212.92	128.31	128.35	54.38	-4,474.17	3,425.56	757.23	554.47	202.76	3.735
10,200.00	4,654.13	9,860.68	4,212.42	130.58	130.61	54.27	-4,545.45	3,495.67	756.50	550.78	205.72	3.677
10,249.10	4,654.47	9,909.76	4,212.17	131.69	131.73	54.20	-4,580.44	3,530.08	756.13	549.04	207.10	3.651
10,300.00	4,655.04	9,960.64	4,211.92	132.84	132.88	54.12	-4,616.72	3,565.77	755.98	547.48	208.50	3.626
10,400.00	4,652.21	10,060.52	4,211.42	135.09	135.15	54.10	-4,687.93	3,635.80	751.16	539.71	211.46	3.552
10,500.00	4,649.97	10,160.44	4,210.91	137.34	137.42	54.01	-4,759.16	3,705.86	747.08	532.72	214.36	3.485
10,600.00	4,650.23	10,260.37	4,210.41	139.59	139.68	53.79	-4,830.41	3,775.94	744.85	527.96	216.89	3.434
10,700.00	4,650.17	10,360.32	4,209.91	141.85	141.95	53.68	-4,901.66	3,846.03	742.88	523.37	219.51	3.384
10,800.00	4,647.38	10,460.26	4,209.41	144.10	144.22	53.69	-4,972.91	3,916.10	739.30	516.71	222.58	3.321
10,900.00	4,646.16	10,560.24	4,208.91	146.37	146.50	53.63	-5,044.19	3,986.21	737.40	511.88	225.52	3.270
10,925.04	4,646.13	10,585.28	4,208.78	146.94	147.06	53.62	-5,062.04	4,003.77	737.33	511.07	226.26	3.259
11,000.00	4,645.82	10,660.23	4,208.41	148.65	148.77	53.64	-5,115.48	4,056.33	737.98	509.27	228.71	3.227
11,100.00	4,646.73	10,760.18	4,207.90	150.95	151.04	53.69	-5,186.74	4,126.41	740.99	508.95	232.04	3.193
11,200.00	4,646.41	10,860.15	4,207.40	153.24	153.31	53.76	-5,258.01	4,196.51	742.78	507.30	235.48	3.154
11,300.00	4,643.45	10,960.12	4,206.90	155.53	155.59	53.96	-5,329.28	4,266.61	741.98	502.79	239.19	3.102
11,327.53	4,642.83	10,987.65	4,206.76	156.16	156.21	53.99	-5,348.90	4,285.91	741.88	501.70	240.18	3.089
11,400.00	4,642.72	11,060.11	4,206.40	157.82	157.86	54.03	-5,400.56	4,336.72	742.80	500.26	242.54	3.063
11,500.00	4,643.70	11,139.60	4,206.00	160.12	159.67	54.04	-5,457.24	4,392.47	745.70	500.17	245.53	3.037
11,600.00	4,645.75	11,139.60	4,206.00	162.41	159.67	54.04	-5,457.24	4,392.47	758.83	514.97	243.86	3.112
11,700.00	4,647.13	11,139.60	4,206.00	164.72	159.67	53.88	-5,457.24	4,392.47	784.17	547.23	236.95	3.309
11,800.00	4,648.08	11,139.60	4,206.00	167.02	159.67	53.67	-5,457.24	4,392.47	821.90	595.09	226.81	3.624
11,900.00	4,647.47	11,139.60	4,206.00	169.33	159.67	53.42	-5,457.24	4,392.47	868.10	653.31	214.79	4.042
12,000.00	4,646.52	11,139.60	4,206.00	171.64	159.67	52.93	-5,457.24	4,392.47	923.55	721.00	202.55	4.560
12,100.00	4,645.14	11,139.60	4,206.00	173.89	159.67	52.55	-5,457.24	4,392.47	986.69	795.71	190.98	5.166
12,156.00	4,644.46	11,139.60	4,206.00	174.81	159.67	52.55	-5,457.24	4,392.47	1,024.87	839.90	184.98	5.541



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 049H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 416-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-131.10	-13.12	-15.04	19.95				
100.00	100.00	99.99	99.99	0.13	0.17	-120.75	-13.08	-15.10	20.06	19.75	0.30	66.193	
200.00	200.00	199.98	199.98	0.31	0.34	-121.37	-12.99	-15.28	20.37	19.72	0.65	31.301 ES	
300.00	300.00	299.97	299.97	0.49	0.51	-122.35	-12.84	-15.57	20.91	19.91	1.00	20.931	
400.00	399.99	399.95	399.95	0.67	0.67	-123.64	-12.62	-15.99	21.66	20.31	1.35	16.084	
500.00	499.98	499.99	499.99	1.00	1.00	-130.09	-12.30	-16.44	22.66	20.65	2.00	11.303	
600.00	599.96	599.93	599.92	1.36	1.36	-131.54	-12.00	-16.84	23.89	21.17	2.72	8.781	
700.00	699.95	699.96	699.95	1.72	1.72	-134.64	-11.69	-17.32	24.85	21.42	3.44	7.229	
800.00	799.95	799.96	799.95	2.08	2.08	-134.08	-11.34	-17.68	25.43	21.27	4.15	6.121	
900.00	899.95	899.92	899.91	2.44	2.43	-126.04	-11.18	-18.02	25.95	21.09	4.87	5.333	
1,000.00	999.95	999.91	999.90	2.79	2.78	-126.48	-11.26	-18.18	26.33	20.75	5.57	4.722	
1,100.00	1,099.95	1,099.90	1,099.89	3.15	3.13	-134.83	-11.32	-18.42	26.86	20.57	6.29	4.273	
1,200.00	1,199.94	1,199.94	1,199.93	3.51	3.49	-145.58	-11.25	-18.73	27.34	20.34	7.00	3.905	
1,300.00	1,299.94	1,299.94	1,299.93	3.87	3.85	-167.24	-11.01	-19.06	27.80	20.09	7.72	3.603	
1,400.00	1,399.94	1,399.86	1,399.85	4.22	4.21	-173.44	-10.94	-19.37	28.63	20.20	8.43	3.397 SF	
1,500.00	1,499.94	1,498.82	1,498.79	4.58	4.56	-171.36	-11.73	-20.84	31.12	21.99	9.13	3.409	
1,600.00	1,599.93	1,596.73	1,596.47	4.93	4.91	-146.28	-14.97	-26.38	38.17	28.36	9.80	3.894	
1,700.00	1,699.93	1,693.63	1,692.64	5.29	5.26	-131.52	-20.79	-36.67	50.28	39.83	10.44	4.814	
1,800.00	1,799.93	1,789.35	1,786.90	5.65	5.63	-104.26	-28.67	-51.30	67.45	56.39	11.06	6.096	
1,900.00	1,899.93	1,883.09	1,878.31	6.01	6.01	-100.73	-38.42	-69.53	89.30	77.65	11.65	7.666	
2,000.00	1,999.90	1,978.26	1,970.31	6.36	6.42	-40.65	-50.30	-90.81	113.30	101.02	12.28	9.224	
2,100.00	2,099.70	2,076.22	2,064.83	6.71	6.86	-41.92	-62.90	-113.28	134.87	121.89	12.99	10.387	
2,200.00	2,199.30	2,174.38	2,159.61	7.06	7.32	-44.07	-75.19	-135.66	154.31	140.61	13.70	11.266	
2,300.00	2,298.85	2,272.12	2,253.96	7.42	7.79	-44.65	-87.34	-158.12	173.54	159.13	14.41	12.045	
2,400.00	2,398.39	2,369.19	2,347.54	7.78	8.27	-43.70	-99.34	-180.93	193.04	177.92	15.11	12.774	
2,500.00	2,497.95	2,466.77	2,441.49	8.08	8.76	-42.30	-111.37	-204.36	212.85	197.08	15.77	13.498	
2,600.00	2,597.52	2,565.36	2,536.44	8.21	9.27	-41.02	-123.51	-228.01	232.54	216.26	16.28	14.283	
2,700.00	2,697.09	2,595.00	2,564.99	8.25	9.43	-40.61	-127.13	-235.10	261.13	245.93	15.20	17.176	
2,800.00	2,796.69	2,595.00	2,564.99	8.30	9.43	-38.29	-127.13	-235.10	318.54	305.37	13.17	24.182	
2,900.00	2,896.32	2,595.00	2,564.99	8.37	9.43	-36.01	-127.13	-235.10	393.42	381.77	11.65	33.776	
3,000.00	2,995.99	2,595.00	2,564.99	8.46	9.43	-35.02	-127.13	-235.10	477.64	466.95	10.69	44.698	
3,100.00	3,095.65	2,595.00	2,564.99	8.56	9.43	-34.04	-127.13	-235.10	566.98	556.88	10.10	56.116	
3,200.00	3,195.34	2,595.00	2,564.99	8.68	9.43	-33.33	-127.13	-235.10	659.44	649.67	9.76	67.533	
3,300.00	3,295.04	2,595.00	2,564.99	8.81	9.43	-31.58	-127.13	-235.10	753.83	744.26	9.57	78.737	
3,400.00	3,394.76	2,595.00	2,564.99	8.95	9.43	-28.88	-127.13	-235.10	849.52	840.05	9.48	89.625	
3,500.00	3,494.46	2,595.00	2,564.99	9.11	9.43	-27.14	-127.13	-235.10	946.00	936.55	9.44	100.179	
3,600.00	3,594.16	2,595.00	2,564.99	9.28	9.43	-22.89	-127.13	-235.10	1,043.10	1,033.65	9.45	110.360	
3,700.00	3,693.91	2,595.00	2,564.99	9.46	9.43	-16.55	-127.13	-235.10	1,140.72	1,131.22	9.49	120.165	
3,800.00	3,793.72	2,595.00	2,564.99	9.64	9.43	-15.40	-127.13	-235.10	1,238.86	1,229.29	9.56	129.532	
3,900.00	3,893.71	2,595.00	2,564.99	9.82	9.43	11.47	-127.13	-235.10	1,337.95	1,328.28	9.67	138.424	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
100.00	100.00	100.00	100.00	0.13	0.13	180.00	0.00	0.00	0.16	-0.11	0.27	0.585 Level 1<1.00, CC	
200.00	200.00	200.00	200.00	0.31	0.49	180.00	0.00	0.00	0.63	-0.18	0.81	0.780 Level 1<1.00	
300.00	300.00	300.00	300.00	0.49	0.85	180.00	0.00	0.00	1.42	0.07	1.34	1.053 Level 2<1.50	
400.00	399.99	399.99	399.99	0.67	1.21	180.00	0.00	0.00	2.52	0.63	1.88	1.337 Level 2<1.50	
500.00	499.98	499.98	499.98	1.00	1.57	176.17	0.00	0.00	4.03	1.46	2.57	1.567 Level 3<2.00	
600.00	599.96	599.96	599.96	1.36	1.93	177.96	0.00	0.00	5.83	2.55	3.29	1.774 Level 3<2.00	
700.00	699.95	699.95	699.95	1.72	2.29	176.29	0.00	0.00	7.11	3.11	4.00	1.776 Level 3<2.00	
800.00	799.95	799.95	799.95	2.08	2.64	177.49	0.00	0.00	7.97	3.24	4.72	1.687 Level 3<2.00	
900.00	899.95	899.95	899.95	2.44	3.00	-174.24	0.00	0.00	8.62	3.18	5.44	1.585 Level 3<2.00	
1,000.00	999.95	999.95	999.95	2.79	3.36	-174.56	0.00	0.00	9.01	2.86	6.15	1.464 Level 2<1.50	
1,100.00	1,099.95	1,099.95	1,099.95	3.15	3.72	177.60	0.00	0.00	9.50	2.63	6.87	1.382 Level 2<1.50	
1,200.00	1,199.94	1,199.94	1,199.94	3.51	4.08	167.12	0.00	0.00	9.95	2.37	7.59	1.312 Level 2<1.50	
1,300.00	1,299.94	1,299.94	1,299.94	3.87	4.44	146.10	0.00	0.00	10.39	2.09	8.30	1.252 Level 2<1.50	
1,400.00	1,399.94	1,399.94	1,399.94	4.22	4.79	141.75	0.00	0.00	10.93	1.91	9.02	1.212 Level 2<1.50	
1,500.00	1,499.94	1,499.94	1,499.94	4.58	5.15	145.68	0.00	0.00	11.66	1.93	9.73	1.199 Level 2<1.50	
1,600.00	1,599.93	1,599.93	1,599.93	4.93	5.51	169.79	0.00	0.00	12.38	1.93	10.45	1.185 Level 2<1.50	
1,700.00	1,699.93	1,699.93	1,699.93	5.29	5.87	-178.99	0.00	0.00	12.81	1.65	11.16	1.148 Level 2<1.50	
1,800.00	1,799.93	1,799.93	1,799.93	5.65	6.23	-155.32	0.00	0.00	13.22	1.34	11.88	1.113 Level 2<1.50	
1,900.00	1,899.93	1,899.93	1,899.93	6.01	6.59	-155.01	0.00	0.00	13.64	1.05	12.59	1.083 Level 2<1.50	
2,000.00	1,999.90	1,999.91	1,999.91	6.36	6.94	-104.54	0.00	0.00	14.23	0.93	13.30	1.070 Level 2<1.50	
2,100.00	2,099.70	2,100.15	2,100.10	6.71	7.29	-118.29	0.34	-2.76	15.46	1.47	13.98	1.105 Level 2<1.50	
2,200.00	2,199.30	2,200.40	2,200.05	7.06	7.64	-123.80	1.26	-10.30	16.15	1.50	14.65	1.103 Level 2<1.50	
2,300.00	2,298.85	2,300.39	2,299.69	7.42	7.99	-126.25	2.30	-18.73	16.78	1.43	15.35	1.093 Level 2<1.50	
2,400.00	2,398.39	2,400.38	2,399.32	7.78	8.34	-127.67	3.33	-27.15	17.32	1.28	16.04	1.080 Level 2<1.50	
2,500.00	2,497.95	2,500.38	2,498.95	8.08	8.70	-128.95	4.36	-35.58	17.60	0.92	16.68	1.055 Level 2<1.50	
2,600.00	2,597.52	2,600.38	2,598.59	8.21	9.06	-130.68	5.40	-44.00	17.66	0.52	17.14	1.030 Level 2<1.50	
2,700.00	2,697.09	2,700.37	2,698.22	8.25	9.42	-133.75	6.43	-52.42	17.63	0.13	17.50	1.007 Level 2<1.50	
2,800.00	2,796.69	2,800.36	2,797.85	8.30	9.78	-134.63	7.46	-60.85	17.32	-0.55	17.87	0.969 Level 1<1.00	
2,900.00	2,896.32	2,900.35	2,897.48	8.37	10.15	-135.62	8.50	-69.27	16.50	-1.74	18.25	0.904 Level 1<1.00	
3,000.00	2,995.99	3,000.34	2,997.11	8.46	10.51	-138.36	9.53	-77.69	15.32	-3.30	18.63	0.823 Level 1<1.00	
3,100.00	3,095.65	3,100.32	3,096.73	8.56	10.88	-142.26	10.56	-86.12	14.07	-4.95	19.01	0.740 Level 1<1.00	
3,200.00	3,195.34	3,200.31	3,196.35	8.68	11.25	-147.07	11.59	-94.54	12.69	-6.70	19.40	0.654 Level 1<1.00	
3,300.00	3,295.04	3,300.28	3,295.97	8.81	11.62	-152.63	12.63	-102.96	11.16	-8.63	19.79	0.564 Level 1<1.00	
3,400.00	3,394.76	3,400.24	3,395.57	8.95	11.99	-161.00	13.66	-111.38	9.55	-10.66	20.22	0.472 Level 1<1.00	
3,500.00	3,494.46	3,500.20	3,495.16	9.11	12.36	-177.98	14.69	-119.80	8.73	-12.01	20.75	0.421 Level 1<1.00	
3,527.25	3,521.63	3,527.43	3,522.30	9.16	12.46	177.95	14.97	-122.10	8.71	-12.22	20.93	0.416 Level 1<1.00	
3,600.00	3,594.16	3,600.14	3,594.74	9.28	12.73	167.20	15.72	-128.22	9.09	-12.40	21.49	0.423 Level 1<1.00	
3,700.00	3,693.91	3,699.87	3,694.19	9.46	13.10	154.69	16.64	-135.71	11.19	-11.20	22.40	0.500 Level 1<1.00	
3,800.00	3,793.72	3,799.47	3,793.73	9.64	13.45	161.16	16.98	-138.46	15.46	-7.49	22.95	0.674 Level 1<1.00	
3,900.00	3,893.71	3,899.45	3,893.71	9.82	13.80	-167.27	16.98	-138.46	16.68	-6.78	23.47	0.711 Level 1<1.00	
4,000.00	3,993.71	3,999.44	3,993.71	10.00	14.16	-173.33	16.98	-138.46	17.24	-6.77	24.00	0.718 Level 1<1.00	
4,100.00	4,093.56	4,099.76	4,093.99	10.18	14.50	-115.40	16.02	-137.52	18.70	-5.87	24.57	0.761 Level 1<1.00	
4,200.00	4,191.71	4,201.13	4,193.99	10.34	14.81	-118.66	4.73	-126.41	21.04	-3.39	24.43	0.861 Level 1<1.00	
4,300.00	4,285.99	4,302.85	4,289.95	10.50	15.10	-114.76	-19.04	-103.04	21.13	-2.70	23.83	0.887 Level 1<1.00	
4,400.00	4,374.16	4,404.30	4,378.30	10.66	15.37	-111.67	-54.40	-68.26	17.15	-5.80	22.95	0.747 Level 1<1.00	
4,500.00	4,454.00	4,505.05	4,456.02	10.84	15.68	-102.18	-99.96	-23.46	12.15	-12.24	24.39	0.498 Level 1<1.00	
4,565.05	4,500.16	4,570.14	4,499.80	11.14	15.97	-87.46	-134.28	10.28	10.97	-15.75	26.71	0.411 Level 1<1.00	
4,600.00	4,522.75	4,604.97	4,520.89	11.34	16.15	-79.01	-154.03	29.71	11.49	-12.81	24.31	0.473 Level 1<1.00	
4,700.00	4,577.65	4,704.51	4,572.94	12.09	16.79	-67.02	-214.48	89.16	13.77	-7.95	21.72	0.634 Level 1<1.00	
4,755.75	4,602.69	4,759.94	4,599.47	12.65	17.24	-74.76	-249.18	123.28	13.54	-10.81	24.34	0.556 Level 1<1.00	
4,800.00	4,621.40	4,803.85	4,617.22	13.11	17.63	-71.40	-277.80	151.42	14.06	-9.59	23.65	0.594 Level 1<1.00	
4,900.00	4,652.61	4,902.84	4,645.65	14.41	18.66	-58.94	-345.31	217.82	13.92	-6.77	20.69	0.673 Level 1<1.00	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - rev2													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
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)				
4,984.12	4,666.31	4,985.67	4,656.62	15.68	19.67	-46.39	-403.80	275.34	14.09	-4.31	18.40	0.766 Level 1<1.00		
5,000.00	4,666.66	5,001.33	4,657.36	15.93	19.87	-46.10	-414.95	286.31	13.42	-4.91	18.34	0.732 Level 1<1.00		
5,100.00	4,669.58	5,100.89	4,657.32	17.61	21.24	-33.60	-485.93	356.12	14.72	-2.71	17.43	0.844 Level 1<1.00		
5,200.00	4,666.89	5,200.83	4,656.87	19.43	22.76	-28.98	-557.19	426.19	11.45	-6.19	17.63	0.649 Level 1<1.00		
5,300.00	4,664.19	5,300.72	4,656.42	21.34	24.40	-11.10	-628.40	496.24	7.91	-9.57	17.48	0.453 Level 1<1.00		
5,400.00	4,663.31	5,400.71	4,655.98	23.31	26.14	-0.75	-699.69	566.35	7.33	-11.14	18.47	0.397 Level 1<1.00		
5,500.00	4,660.98	5,500.68	4,655.53	25.34	27.95	10.75	-770.97	636.45	5.55	-14.24	19.79	0.280 Level 1<1.00		
5,546.13	4,660.20	5,546.81	4,655.32	26.29	28.82	20.65	-803.85	668.79	5.22	-15.53	20.75	0.252 Level 1<1.00		
5,600.00	4,659.81	5,600.66	4,655.08	27.41	29.83	30.12	-842.24	706.55	5.47	-16.74	22.20	0.246 Level 1<1.00		
5,700.00	4,661.14	5,700.64	4,654.63	29.50	31.77	22.64	-913.53	776.66	7.05	-15.90	22.96	0.307 Level 1<1.00		
5,800.00	4,661.23	5,800.64	4,654.18	31.63	33.75	24.14	-984.82	846.77	7.72	-16.73	24.45	0.316 Level 1<1.00		
5,900.00	4,658.93	5,900.61	4,653.73	33.78	35.76	40.80	-1,056.09	916.87	6.87	-21.31	28.18	0.244 Level 1<1.00		
6,000.00	4,657.08	6,000.58	4,653.28	35.94	37.81	50.58	-1,127.37	986.97	5.97	-26.30	32.28	0.185 Level 1<1.00		
6,100.00	4,655.96	6,100.56	4,652.83	38.10	39.88	38.23	-1,198.65	1,057.08	3.98	-26.24	30.22	0.132 Level 1<1.00		
6,200.00	4,653.59	6,200.52	4,652.38	40.27	41.98	18.31	-1,269.92	1,127.17	1.27	-28.03	29.30	0.043 Level 1<1.00		
6,228.02	4,653.28	6,228.53	4,652.26	40.89	42.57	1.05	-1,289.89	1,146.81	1.02	-28.30	29.31	0.035 Level 1<1.00, SF		
6,300.00	4,654.93	6,300.48	4,651.93	42.47	44.09	-3.87	-1,341.19	1,197.26	3.01	-27.36	30.36	0.099 Level 1<1.00		
6,400.00	4,657.38	6,400.44	4,651.49	44.68	46.22	3.43	-1,412.45	1,267.35	5.91	-25.90	31.81	0.186 Level 1<1.00		
6,500.00	4,658.73	6,500.41	4,651.04	46.90	48.36	12.75	-1,483.73	1,337.45	7.88	-25.66	33.54	0.235 Level 1<1.00		
6,600.00	4,658.53	6,600.40	4,650.59	49.13	50.52	22.99	-1,555.01	1,407.56	8.63	-27.23	35.85	0.241 Level 1<1.00		
6,700.00	4,656.34	6,700.36	4,650.14	51.37	52.69	40.42	-1,626.28	1,477.66	8.15	-32.64	40.79	0.200 Level 1<1.00		
6,765.22	4,654.57	6,765.56	4,649.85	52.84	54.11	54.18	-1,672.77	1,523.37	8.07	-39.68	47.75	0.169 Level 1<1.00		
6,800.00	4,653.02	6,800.30	4,649.69	53.62	54.86	65.31	-1,697.53	1,547.73	7.97	-48.82	56.79	0.140 Level 1<1.00		
6,900.00	4,653.18	6,900.27	4,649.24	55.87	57.05	67.08	-1,768.81	1,617.83	10.12	-51.29	61.41	0.165 Level 1<1.00		
7,000.00	4,654.18	7,000.19	4,648.79	58.14	59.24	67.53	-1,840.05	1,687.89	14.11	-51.11	65.22	0.216 Level 1<1.00		
7,100.00	4,655.11	7,100.12	4,648.34	60.40	61.44	67.74	-1,911.29	1,757.96	17.84	-50.88	68.71	0.260 Level 1<1.00		
7,200.00	4,658.90	7,200.01	4,647.89	62.66	63.65	58.78	-1,982.51	1,828.01	21.21	-40.97	62.18	0.341 Level 1<1.00		
7,300.00	4,661.78	7,299.94	4,647.45	64.92	65.86	54.31	-2,053.76	1,898.08	24.56	-36.62	61.18	0.401 Level 1<1.00		
7,400.00	4,663.68	7,399.90	4,647.00	67.18	68.07	50.75	-2,125.02	1,968.17	26.37	-34.53	60.90	0.433 Level 1<1.00		
7,500.00	4,665.04	7,499.86	4,646.55	69.41	70.29	44.81	-2,196.29	2,038.26	26.07	-32.58	58.64	0.444 Level 1<1.00		
7,600.00	4,664.82	7,599.84	4,646.10	71.66	72.52	41.28	-2,267.57	2,108.36	24.91	-33.31	58.22	0.428 Level 1<1.00		
7,700.00	4,662.48	7,699.80	4,645.65	73.90	74.75	40.97	-2,338.84	2,178.46	22.28	-37.07	59.35	0.375 Level 1<1.00		
7,800.00	4,659.07	7,799.76	4,645.20	76.16	76.98	46.33	-2,410.10	2,248.55	20.09	-43.56	63.64	0.316 Level 1<1.00		
7,900.00	4,655.02	7,899.69	4,644.75	78.42	79.21	55.62	-2,481.35	2,318.62	18.17	-53.96	72.13	0.252 Level 1<1.00		
8,000.00	4,653.14	7,999.66	4,644.30	80.67	81.45	56.02	-2,552.62	2,388.71	15.82	-58.08	73.90	0.214 Level 1<1.00		
8,100.00	4,652.74	8,099.61	4,643.85	82.91	83.69	49.07	-2,623.89	2,458.80	13.57	-55.99	69.56	0.195 Level 1<1.00		
8,200.00	4,652.27	8,199.56	4,643.40	85.15	85.93	38.78	-2,695.15	2,528.89	11.37	-53.80	65.17	0.174 Level 1<1.00		
8,300.00	4,650.67	8,299.53	4,642.96	87.40	88.18	31.62	-2,766.42	2,598.98	9.05	-54.78	63.84	0.142 Level 1<1.00		
8,400.00	4,648.42	8,399.50	4,642.51	89.66	90.43	26.69	-2,837.69	2,669.08	6.62	-57.35	63.97	0.103 Level 1<1.00		
8,461.90	4,647.95	8,461.39	4,642.23	91.06	91.82	24.09	-2,881.82	2,712.48	6.27	-58.18	64.45	0.097 Level 1<1.00		
8,500.00	4,648.28	8,499.49	4,642.06	91.92	92.68	23.91	-2,908.98	2,739.20	6.80	-58.30	65.11	0.104 Level 1<1.00		
8,600.00	4,648.67	8,599.49	4,641.61	94.19	94.93	21.70	-2,980.28	2,809.31	7.60	-58.71	66.31	0.115 Level 1<1.00		
8,700.00	4,648.52	8,699.48	4,641.16	96.47	97.18	28.31	-3,051.57	2,879.43	8.36	-60.87	69.23	0.121 Level 1<1.00		
8,800.00	4,647.35	8,799.44	4,640.71	98.76	99.44	44.42	-3,122.84	2,949.52	9.30	-68.52	77.81	0.119 Level 1<1.00		
8,900.00	4,646.47	8,899.41	4,640.26	101.04	101.69	54.41	-3,194.11	3,019.62	10.66	-77.79	88.45	0.121 Level 1<1.00		
9,000.00	4,647.77	8,999.40	4,639.81	103.32	103.95	47.48	-3,265.39	3,089.73	11.77	-72.23	83.99	0.140 Level 1<1.00		
9,100.00	4,647.91	9,099.38	4,639.36	105.60	106.21	48.83	-3,336.68	3,159.84	12.99	-74.07	87.06	0.149 Level 1<1.00		
9,200.00	4,645.87	9,199.35	4,638.91	107.89	108.47	59.75	-3,407.95	3,229.93	13.81	-88.19	102.00	0.135 Level 1<1.00		
9,300.00	4,644.68	9,299.33	4,638.47	110.17	110.73	64.60	-3,479.23	3,300.04	14.50	-97.87	112.37	0.129 Level 1<1.00		
9,400.00	4,645.90	9,399.31	4,638.02	112.44	112.99	58.84	-3,550.52	3,370.15	15.24	-89.69	104.93	0.145 Level 1<1.00		
9,500.00	4,648.38	9,499.27	4,637.57	114.71	115.25	48.77	-3,621.78	3,440.23	16.40	-78.64	95.05	0.173 Level 1<1.00		
9,600.00	4,652.60	9,599.16	4,637.12	116.98	117.51	37.43	-3,693.00	3,510.27	19.49	-69.09	88.58	0.220 Level 1<1.00		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - rev2													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
9,700.00	4,655.75	9,699.06	4,636.67	119.23	119.78	26.78	-3,764.22	3,580.33	21.37	-64.30	85.68	0.249 Level 1<1.00		
9,800.00	4,659.08	9,798.93	4,636.22	121.48	122.04	15.11	-3,835.42	3,650.35	23.68	-60.84	84.52	0.280 Level 1<1.00		
9,900.00	4,658.60	9,898.89	4,635.77	123.74	124.31	9.54	-3,906.69	3,720.45	23.15	-62.04	85.19	0.272 Level 1<1.00		
10,000.00	4,656.51	9,998.86	4,635.32	126.03	126.57	14.54	-3,977.97	3,790.54	21.89	-65.62	87.51	0.250 Level 1<1.00		
10,100.00	4,653.92	10,098.81	4,634.87	128.31	128.84	21.23	-4,049.23	3,860.63	20.44	-69.91	90.35	0.226 Level 1<1.00		
10,140.25	4,653.60	10,139.06	4,634.69	129.23	129.75	21.13	-4,077.92	3,888.85	20.27	-70.71	90.98	0.223 Level 1<1.00		
10,200.00	4,654.13	10,198.80	4,634.43	130.58	131.11	16.94	-4,120.51	3,930.74	20.60	-70.43	91.02	0.226 Level 1<1.00		
10,300.00	4,655.04	10,298.77	4,633.98	132.84	133.38	11.63	-4,191.79	4,000.84	21.50	-70.19	91.70	0.235 Level 1<1.00		
10,400.00	4,652.21	10,398.64	4,633.53	135.09	135.64	0.24	-4,263.00	4,070.87	18.68	-73.91	92.59	0.202 Level 1<1.00		
10,494.81	4,650.25	10,493.37	4,633.10	137.22	137.79	-11.81	-4,330.53	4,137.30	17.52	-77.08	94.60	0.185 Level 1<1.00		
10,500.00	4,649.97	10,498.56	4,633.08	137.34	137.91	-12.35	-4,334.23	4,140.93	17.29	-77.50	94.79	0.182 Level 1<1.00		
10,600.00	4,650.23	10,598.49	4,632.63	139.59	140.18	-21.72	-4,405.48	4,211.01	18.94	-79.30	98.24	0.193 Level 1<1.00		
10,700.00	4,650.17	10,698.45	4,632.18	141.85	142.45	-28.51	-4,476.74	4,281.09	20.48	-81.73	102.21	0.200 Level 1<1.00		
10,794.30	4,647.77	10,792.68	4,631.76	143.97	144.59	-37.64	-4,543.93	4,347.17	20.23	-88.45	108.68	0.186 Level 1<1.00		
10,800.00	4,647.38	10,798.38	4,631.73	144.10	144.72	-38.69	-4,547.99	4,351.16	20.05	-89.54	109.59	0.183 Level 1<1.00		
10,900.00	4,646.16	10,898.36	4,631.28	146.37	146.99	-43.99	-4,619.27	4,421.27	20.68	-94.96	115.64	0.179 Level 1<1.00		
11,000.00	4,645.82	10,998.35	4,630.83	148.65	149.27	-42.56	-4,690.56	4,491.38	20.35	-95.75	116.10	0.175 Level 1<1.00		
11,100.00	4,646.73	11,098.30	4,630.39	150.95	151.54	-34.08	-4,761.82	4,561.47	19.73	-91.63	111.36	0.177 Level 1<1.00		
11,200.00	4,646.41	11,198.27	4,629.94	153.24	153.81	-28.57	-4,833.09	4,631.57	18.75	-91.38	110.13	0.170 Level 1<1.00		
11,300.00	4,643.45	11,298.24	4,629.49	155.53	156.09	-30.32	-4,904.36	4,701.66	16.18	-96.18	112.36	0.144 Level 1<1.00		
11,397.29	4,642.34	11,395.51	4,629.05	157.76	158.30	-27.85	-4,973.72	4,769.87	15.03	-97.68	112.71	0.133 Level 1<1.00		
11,400.00	4,642.72	11,398.22	4,629.04	157.82	158.36	-27.02	-4,975.65	4,771.77	15.36	-97.11	112.47	0.137 Level 1<1.00		
11,500.00	4,643.70	11,498.19	4,628.59	160.12	160.63	-17.68	-5,046.92	4,841.87	15.86	-95.45	111.31	0.142 Level 1<1.00		
11,600.00	4,645.75	11,598.12	4,628.14	162.41	162.91	-6.40	-5,118.17	4,911.94	17.72	-93.85	111.57	0.159 Level 1<1.00		
11,700.00	4,647.13	11,698.06	4,627.69	164.72	165.18	2.42	-5,189.42	4,982.02	19.45	-93.32	112.77	0.172 Level 1<1.00		
11,800.00	4,648.08	11,797.96	4,627.24	167.02	167.46	13.90	-5,260.64	5,052.06	21.47	-94.05	115.52	0.186 Level 1<1.00		
11,900.00	4,647.47	11,897.90	4,626.79	169.33	169.73	22.48	-5,331.90	5,122.14	22.38	-96.85	119.22	0.188 Level 1<1.00		
12,000.00	4,646.52	11,997.78	4,626.35	171.64	172.00	33.29	-5,403.11	5,192.18	24.15	-102.11	126.26	0.191 Level 1<1.00		
12,000.04	4,646.52	11,997.82	4,626.35	171.65	172.01	33.30	-5,403.14	5,192.21	24.15	-102.12	126.27	0.191 Level 1<1.00, ES		
12,100.00	4,645.14	12,074.70	4,626.00	173.89	173.76	42.44	-5,457.95	5,246.11	35.64	-20.42	56.06	0.636 Level 1<1.00		
12,156.00	4,644.46	12,074.70	4,626.00	174.81	173.76	42.44	-5,457.95	5,246.11	84.23	41.52	42.72	1.972 Level 3<2.00		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 051H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	0.00	0.00	0.00	0.00	47.84	26.96	29.78	40.17				
100.00	100.00	100.00	100.00	0.13	0.13	58.59	26.96	29.78	40.09	39.82	0.27	149.021	
200.00	200.00	200.00	200.00	0.31	0.49	59.17	26.96	29.78	39.84	39.03	0.81	49.377	
300.00	300.00	300.00	300.00	0.49	0.85	60.15	26.96	29.78	39.44	38.10	1.34	29.332	
400.00	399.99	399.99	399.99	0.67	1.21	61.55	26.96	29.78	38.91	37.03	1.88	20.667	
500.00	499.98	499.98	499.98	1.00	1.57	58.79	26.96	29.78	38.15	35.58	2.57	14.840	
600.00	599.96	599.96	599.96	1.36	1.93	61.83	26.96	29.78	37.26	33.97	3.29	11.329	
700.00	699.95	699.95	699.95	1.72	2.29	61.38	26.96	29.78	36.65	32.65	4.01	9.150	
800.00	799.95	799.95	799.95	2.08	2.64	63.35	26.96	29.78	36.25	31.53	4.72	7.676	
900.00	899.95	899.95	899.95	2.44	3.00	72.65	26.96	29.78	35.99	30.56	5.44	6.618	
1,000.00	999.95	999.95	999.95	2.79	3.36	73.41	26.96	29.78	35.91	29.75	6.16	5.834	
1,100.00	1,099.95	1,099.95	1,099.95	3.15	3.72	66.23	26.96	29.78	35.72	28.85	6.87	5.198	
1,200.00	1,199.94	1,199.94	1,199.94	3.51	4.08	56.19	26.96	29.78	35.52	27.93	7.59	4.681	
1,300.00	1,299.94	1,299.94	1,299.94	3.87	4.44	34.63	26.96	29.78	35.18	26.88	8.30	4.237	
1,400.00	1,399.94	1,399.94	1,399.94	4.22	4.79	28.59	26.96	29.78	34.59	25.58	9.02	3.837	
1,500.00	1,499.94	1,499.94	1,499.94	4.58	5.15	30.50	26.96	29.78	33.79	24.06	9.73	3.473	
1,600.00	1,599.93	1,599.89	1,599.89	4.93	5.51	53.63	26.96	29.78	33.14	22.70	10.45	3.173	
1,603.76	1,603.69	1,603.60	1,603.60	4.95	5.52	53.64	26.97	29.78	33.14	22.67	10.47	3.165 CC, ES	
1,700.00	1,699.93	1,698.35	1,698.31	5.29	5.86	63.18	29.23	31.22	35.30	24.15	11.14	3.168	
1,800.00	1,799.93	1,796.31	1,795.95	5.65	6.21	82.52	35.72	35.36	42.15	30.34	11.81	3.569	
1,900.00	1,899.93	1,893.25	1,892.06	6.01	6.56	78.46	46.30	42.09	54.07	41.63	12.44	4.345	
2,000.00	1,999.90	1,988.47	1,985.73	6.36	6.91	133.61	60.68	51.25	72.46	59.43	13.04	5.559	
2,100.00	2,099.70	2,081.04	2,075.87	6.71	7.27	131.00	78.42	62.54	98.46	84.86	13.59	7.243	
2,200.00	2,199.30	2,170.61	2,162.03	7.06	7.63	129.42	99.08	75.69	130.44	116.31	14.12	9.237	
2,300.00	2,298.85	2,257.23	2,244.15	7.42	8.01	129.41	122.27	90.45	166.88	152.27	14.61	11.419	
2,400.00	2,398.39	2,341.27	2,322.58	7.78	8.41	130.49	147.75	106.67	207.44	192.36	15.08	13.752	
2,500.00	2,497.95	2,431.83	2,406.46	8.08	8.86	131.74	176.55	125.01	249.80	234.08	15.71	15.896	
2,600.00	2,597.52	2,522.34	2,490.28	8.21	9.34	132.81	205.33	143.33	292.28	276.08	16.20	18.040	
2,700.00	2,697.09	2,612.79	2,574.06	8.25	9.83	132.99	234.10	161.65	334.89	318.30	16.59	20.182	
2,800.00	2,796.69	2,703.25	2,657.85	8.30	10.34	135.28	262.87	179.96	377.47	360.46	17.01	22.197	
2,900.00	2,896.32	2,793.70	2,741.62	8.37	10.87	137.77	291.64	198.28	420.06	402.63	17.43	24.093	
3,000.00	2,995.99	2,884.17	2,825.41	8.46	11.41	138.71	320.41	216.59	462.60	444.72	17.88	25.872	
3,100.00	3,095.65	3,001.60	2,935.21	8.56	12.10	139.59	355.51	238.94	503.16	484.49	18.67	26.950	
3,200.00	3,195.34	3,129.59	3,057.52	8.68	12.80	140.63	387.24	259.13	537.76	518.26	19.50	27.579	
3,300.00	3,295.04	3,263.41	3,187.80	8.81	13.46	143.16	412.94	275.50	565.98	545.69	20.29	27.897	
3,400.00	3,394.76	3,402.09	3,324.71	8.95	14.07	146.85	431.40	287.25	587.44	566.43	21.01	27.955	
3,500.00	3,494.46	3,544.33	3,466.40	9.11	14.58	149.03	441.57	293.72	602.28	580.63	21.65	27.815	
3,600.00	3,594.16	3,672.12	3,594.16	9.28	14.99	156.32	443.40	294.89	610.51	588.32	22.19	27.509	
3,700.00	3,693.91	3,772.11	3,694.12	9.46	15.28	165.59	442.56	295.71	617.23	594.54	22.69	27.204	
3,800.00	3,793.72	3,869.91	3,790.72	9.64	15.54	173.88	432.19	305.92	623.24	600.07	23.17	26.900	
3,900.00	3,893.71	3,960.66	3,876.94	9.82	15.75	-152.47	412.22	325.56	625.87	602.24	23.64	26.478	
4,000.00	3,993.71	4,041.04	3,948.78	10.00	15.93	-154.71	386.63	350.73	631.06	606.98	24.08	26.209	
4,100.00	4,093.56	4,111.91	4,007.42	10.18	16.07	-84.77	358.31	378.59	641.26	616.82	24.44	26.241	
4,200.00	4,191.71	4,178.84	4,057.91	10.34	16.21	-77.31	327.03	409.37	655.38	630.71	24.68	26.557	
4,300.00	4,285.99	4,250.00	4,105.57	10.50	16.38	-68.63	289.41	446.37	670.76	645.88	24.88	26.959	
4,400.00	4,374.16	4,300.00	4,134.98	10.66	16.53	-64.31	260.59	474.72	684.48	659.56	24.91	27.474	
4,500.00	4,454.00	4,381.36	4,176.59	10.84	16.85	-62.43	210.77	523.73	697.69	672.36	25.33	27.544	
4,600.00	4,522.75	4,450.00	4,208.61	11.34	17.25	-61.78	167.51	566.28	710.07	684.17	25.90	27.416	
4,700.00	4,577.65	4,500.00	4,227.37	12.09	17.64	-60.08	134.48	598.78	721.34	694.73	26.61	27.107	
4,800.00	4,621.40	4,566.86	4,246.00	13.11	18.28	-58.60	88.73	643.78	730.99	703.15	27.83	26.265	
4,900.00	4,652.61	4,625.58	4,256.11	14.41	18.94	-57.07	47.51	684.32	737.55	708.26	29.29	25.180	
5,000.00	4,666.66	4,684.06	4,260.24	15.93	19.67	-56.63	5.94	725.21	739.48	708.37	31.11	23.767	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 051H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,100.00	4,669.58	4,773.87	4,259.95	17.61	20.90	-56.39	-58.08	788.18	739.94	706.39	33.55	22.057	
5,200.00	4,666.89	4,873.81	4,259.44	19.43	22.42	-56.45	-129.33	858.26	736.57	700.19	36.38	20.245	
5,300.00	4,664.19	4,973.70	4,258.92	21.34	24.06	-56.39	-200.55	928.31	732.01	692.64	39.37	18.594	
5,400.00	4,663.31	5,073.69	4,258.41	23.31	25.80	-56.35	-271.83	998.42	730.62	688.14	42.48	17.200	
5,500.00	4,660.98	5,173.66	4,257.90	25.34	27.63	-56.44	-343.11	1,068.53	728.68	682.94	45.74	15.932	
5,590.91	4,660.12	5,264.56	4,257.43	27.22	29.34	-56.39	-407.91	1,132.27	727.50	678.76	48.74	14.927	
5,600.00	4,659.81	5,273.64	4,257.38	27.41	29.51	-56.39	-414.38	1,138.63	726.90	677.86	49.04	14.824	
5,700.00	4,661.14	5,373.62	4,256.87	29.50	31.45	-56.27	-485.66	1,208.74	727.95	675.59	52.35	13.905	
5,800.00	4,661.23	5,473.62	4,256.35	31.63	33.44	-56.21	-556.95	1,278.86	727.92	672.17	55.74	13.058	
5,900.00	4,658.93	5,573.59	4,255.84	33.78	35.46	-56.30	-628.22	1,348.96	725.82	666.58	59.24	12.252	
5,968.94	4,657.29	5,642.50	4,255.49	35.27	36.87	-56.32	-677.36	1,397.29	724.59	662.91	61.68	11.747	
6,000.00	4,657.08	5,673.57	4,255.33	35.94	37.51	-56.34	-699.50	1,419.07	724.98	662.19	62.79	11.547	
6,100.00	4,655.96	5,773.54	4,254.81	38.10	39.58	-56.46	-770.77	1,489.17	726.44	660.05	66.39	10.942	
6,200.00	4,653.59	5,873.50	4,254.30	40.27	41.68	-56.68	-842.04	1,559.27	727.14	657.07	70.08	10.377	
6,300.00	4,654.93	5,973.47	4,253.78	42.47	43.80	-56.61	-913.31	1,629.37	728.67	655.09	73.58	9.903	
6,400.00	4,657.38	6,073.42	4,253.27	44.68	45.93	-56.38	-984.57	1,699.45	729.85	652.84	77.01	9.477	
6,500.00	4,658.73	6,173.39	4,252.76	46.90	48.08	-56.19	-1,055.84	1,769.56	729.73	649.27	80.46	9.070	
6,600.00	4,658.53	6,273.38	4,252.24	49.13	50.24	-56.11	-1,127.12	1,839.67	728.55	644.58	83.97	8.676	
6,700.00	4,656.34	6,373.34	4,251.73	51.37	52.41	-56.16	-1,198.39	1,909.77	726.03	638.45	87.59	8.289	
6,800.00	4,653.02	6,473.28	4,251.21	53.62	54.59	-56.24	-1,269.64	1,979.85	722.85	631.57	91.28	7.919	
6,900.00	4,653.18	6,573.25	4,250.70	55.87	56.77	-56.07	-1,340.91	2,049.95	721.50	626.75	94.75	7.615	
7,000.00	4,654.18	6,673.17	4,250.19	58.14	58.97	-55.81	-1,412.15	2,120.01	719.27	621.19	98.08	7.334	
7,097.99	4,655.76	6,771.09	4,249.68	60.36	61.13	-55.54	-1,481.95	2,188.68	717.88	616.59	101.29	7.087	
7,100.00	4,655.11	6,773.10	4,249.67	60.40	61.17	-55.56	-1,483.38	2,190.08	717.23	615.84	101.39	7.074	
7,200.00	4,658.90	6,872.99	4,249.16	62.66	63.38	-55.22	-1,554.60	2,260.13	718.33	613.78	104.55	6.870	
7,300.00	4,661.78	6,972.91	4,248.64	64.92	65.59	-54.90	-1,625.84	2,330.20	718.80	611.05	107.74	6.671	
7,311.94	4,662.04	6,984.85	4,248.58	65.19	65.85	-54.88	-1,634.35	2,338.57	718.77	610.64	108.13	6.647	
7,400.00	4,663.68	7,072.87	4,248.13	67.18	67.81	-54.75	-1,697.10	2,400.29	719.79	608.74	111.05	6.481	
7,500.00	4,665.04	7,172.83	4,247.62	69.41	70.03	-54.71	-1,768.37	2,470.39	722.56	608.02	114.54	6.308	
7,600.00	4,664.82	7,272.81	4,247.10	71.66	72.26	-54.76	-1,839.65	2,540.49	724.31	606.16	118.15	6.130	
7,700.00	4,662.48	7,372.78	4,246.59	73.90	74.49	-54.97	-1,910.91	2,610.59	724.76	602.82	121.94	5.944	
7,800.00	4,659.07	7,472.73	4,246.07	76.16	76.72	-55.20	-1,982.17	2,680.68	723.17	597.45	125.72	5.752	
7,900.00	4,655.02	7,572.67	4,245.56	78.42	78.96	-55.39	-2,053.42	2,750.76	720.77	591.23	129.54	5.564	
7,940.78	4,653.78	7,613.44	4,245.35	79.34	79.87	-55.45	-2,082.49	2,779.34	720.47	589.37	131.10	5.496	
8,000.00	4,653.14	7,672.63	4,245.05	80.67	81.19	-55.54	-2,124.69	2,820.86	721.55	588.22	133.33	5.412	
8,100.00	4,652.74	7,772.59	4,244.53	82.91	83.44	-55.66	-2,195.95	2,890.95	723.98	586.93	137.05	5.283	
8,200.00	4,652.27	7,872.54	4,244.02	85.15	85.68	-55.79	-2,267.21	2,961.04	726.60	585.79	140.80	5.160	
8,300.00	4,650.67	7,972.51	4,243.50	87.40	87.93	-55.97	-2,338.48	3,031.13	727.96	583.33	144.62	5.033	
8,400.00	4,648.42	8,072.48	4,242.99	89.66	90.18	-56.18	-2,409.75	3,101.23	728.46	579.99	148.48	4.906	
8,500.00	4,648.28	8,172.47	4,242.48	91.92	92.43	-56.17	-2,481.04	3,171.35	728.85	576.87	151.98	4.796	
8,600.00	4,648.67	8,272.47	4,241.96	94.19	94.68	-56.11	-2,552.33	3,241.47	729.32	573.92	155.40	4.693	
8,700.00	4,648.52	8,372.46	4,241.45	96.47	96.93	-56.03	-2,623.61	3,311.59	728.56	569.80	158.76	4.589	
8,800.00	4,647.35	8,472.42	4,240.93	98.76	99.19	-55.98	-2,694.88	3,381.68	726.09	563.98	162.11	4.479	
8,891.75	4,646.82	8,564.15	4,240.46	100.85	101.26	-55.89	-2,760.28	3,446.01	724.67	559.52	165.15	4.388	
8,900.00	4,646.47	8,572.39	4,240.42	101.04	101.44	-55.89	-2,766.15	3,451.78	724.10	558.67	165.43	4.377	
9,000.00	4,647.77	8,672.37	4,239.91	103.32	103.70	-55.77	-2,837.43	3,521.89	725.12	556.45	168.67	4.299	
9,100.00	4,647.91	8,772.36	4,239.39	105.60	105.96	-55.69	-2,908.71	3,592.01	724.58	552.66	171.92	4.215	
9,200.00	4,645.87	8,872.33	4,238.88	107.89	108.22	-55.72	-2,979.98	3,662.10	721.94	546.60	175.34	4.117	
9,284.81	4,644.60	8,957.12	4,238.44	109.82	110.14	-55.68	-3,040.43	3,721.56	720.46	542.23	178.22	4.042	
9,300.00	4,644.68	8,972.31	4,238.36	110.17	110.48	-55.68	-3,051.26	3,732.21	720.60	541.88	178.73	4.032	
9,400.00	4,645.90	9,072.29	4,237.85	112.44	112.75	-55.57	-3,122.54	3,802.32	721.63	539.73	181.90	3.967	
9,500.00	4,648.38	9,172.24	4,237.34	114.71	115.01	-55.43	-3,193.80	3,872.41	723.91	538.96	184.95	3.914	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 051H - Original Hole - rev2											Offset Site Error:	0.00 ft
Survey Program: 0-MWD											Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor
9,600.00	4,652.60	9,272.13	4,236.82	116.98	117.27	-55.16	-3,265.01	3,942.45	727.02	539.33	187.70	3.873
9,700.00	4,655.75	9,372.03	4,236.31	119.23	119.53	-55.01	-3,336.24	4,012.51	730.93	540.16	190.77	3.831
9,800.00	4,659.08	9,471.90	4,235.79	121.48	121.80	-54.91	-3,407.43	4,082.54	735.98	542.01	193.96	3.794
9,900.00	4,658.60	9,571.86	4,235.28	123.74	124.06	-54.99	-3,478.70	4,152.63	737.91	540.33	197.58	3.735
10,000.00	4,656.51	9,671.83	4,234.77	126.03	126.33	-55.04	-3,549.97	4,222.73	735.65	534.72	200.93	3.661
10,100.00	4,653.92	9,771.78	4,234.25	128.31	128.60	-55.07	-3,621.23	4,292.82	732.91	528.59	204.31	3.587
10,119.31	4,653.71	9,791.09	4,234.15	128.75	129.04	-55.07	-3,635.00	4,306.36	732.86	527.89	204.97	3.575
10,200.00	4,654.13	9,871.77	4,233.74	130.58	130.87	-55.09	-3,692.51	4,362.93	734.47	526.78	207.69	3.536
10,300.00	4,655.04	9,971.73	4,233.22	132.84	133.14	-55.03	-3,763.78	4,433.03	736.65	525.68	210.97	3.492
10,400.00	4,652.21	10,071.62	4,232.71	135.09	135.40	-55.34	-3,834.99	4,503.07	738.83	523.59	215.24	3.433
10,500.00	4,649.97	10,171.53	4,232.20	137.34	137.67	-55.64	-3,906.22	4,573.13	740.98	521.61	219.36	3.378
10,600.00	4,650.23	10,271.47	4,231.68	139.59	139.94	-55.78	-3,977.47	4,643.21	744.15	521.14	223.00	3.337
10,700.00	4,650.17	10,371.42	4,231.17	141.85	142.21	-55.83	-4,048.72	4,713.30	746.70	520.08	226.62	3.295
10,800.00	4,647.38	10,471.35	4,230.66	144.10	144.49	-56.10	-4,119.97	4,783.37	747.71	517.00	230.72	3.241
10,900.00	4,646.16	10,571.33	4,230.14	146.37	146.76	-56.25	-4,191.25	4,853.48	748.84	514.44	234.41	3.195
11,000.00	4,645.82	10,671.32	4,229.63	148.65	149.03	-56.21	-4,262.53	4,923.60	748.44	510.87	237.57	3.150
11,100.00	4,646.73	10,771.27	4,229.11	150.95	151.30	-55.99	-4,333.79	4,993.68	746.99	506.84	240.15	3.110
11,200.00	4,646.41	10,871.24	4,228.60	153.24	153.58	-55.92	-4,405.06	5,063.78	745.37	502.35	243.02	3.067
11,300.00	4,643.45	10,971.21	4,228.08	155.53	155.85	-56.04	-4,476.33	5,133.88	743.34	496.75	246.59	3.014
11,400.00	4,642.72	11,071.20	4,227.57	157.82	158.13	-55.99	-4,547.62	5,204.00	742.24	492.59	249.65	2.973
11,500.00	4,643.70	11,171.16	4,227.06	160.12	160.40	-55.79	-4,618.88	5,274.09	741.29	489.12	252.17	2.940
11,600.00	4,645.75	11,271.09	4,226.54	162.41	162.67	-55.49	-4,690.12	5,344.16	740.40	486.08	254.31	2.911
11,700.00	4,647.13	11,371.03	4,226.03	164.72	164.95	-55.24	-4,761.37	5,414.24	739.17	482.62	256.55	2.881
11,800.00	4,648.08	11,470.92	4,225.52	167.02	167.22	-54.97	-4,832.59	5,484.29	736.45	477.94	258.51	2.849
11,900.00	4,647.47	11,570.87	4,225.00	169.33	169.50	-54.83	-4,903.84	5,554.37	733.61	472.67	260.94	2.811
12,000.00	4,646.52	11,670.75	4,224.49	171.64	171.77	-54.65	-4,975.05	5,624.42	729.52	466.39	263.12	2.773
12,100.00	4,645.14	11,770.56	4,223.97	173.89	174.05	-54.41	-5,046.21	5,694.40	724.05	459.06	264.99	2.732
12,156.00	4,644.46	11,826.43	4,223.69	174.81	175.32	-54.26	-5,086.04	5,733.58	720.74	455.07	265.67	2.713 SF

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 051H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 415-MWD													Offset Well Error:	0.00 ft
Rule Assigned:													Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	47.84	26.96	29.78	40.17					
100.00	100.00	99.91	99.91	0.13	0.17	58.36	27.15	29.76	40.20	39.89	0.30	132.623		
200.00	200.00	199.82	199.82	0.31	0.34	58.26	27.73	29.69	40.29	39.64	0.65	61.888		
300.00	300.00	299.73	299.72	0.49	0.51	58.10	28.68	29.58	40.44	39.44	1.00	40.485		
400.00	399.99	399.64	399.62	0.67	0.67	57.87	30.03	29.42	40.65	39.30	1.35	30.183		
500.00	499.98	499.63	499.60	1.00	1.00	52.92	31.69	29.15	40.72	38.72	2.01	20.296		
600.00	599.96	599.63	599.58	1.36	1.36	53.40	33.48	28.76	40.57	37.85	2.72	14.893		
624.77	624.73	624.40	624.35	1.45	1.45	52.99	33.92	28.67	40.56	37.66	2.90	13.977		
700.00	699.95	699.67	699.61	1.72	1.72	50.60	35.15	28.43	40.69	37.25	3.44	11.822		
800.00	799.95	799.73	799.66	2.08	2.08	50.31	36.71	27.99	40.92	36.76	4.16	9.838		
900.00	899.95	899.80	899.72	2.44	2.44	57.82	37.97	27.67	41.19	36.31	4.88	8.447		
1,000.00	999.95	999.94	999.85	2.79	2.80	57.05	38.95	27.21	41.39	35.79	5.59	7.400		
1,100.00	1,099.95	1,099.99	1,099.90	3.15	3.15	48.43	39.65	26.64	41.20	34.89	6.31	6.532		
1,200.00	1,199.94	1,200.00	1,199.90	3.51	3.51	37.18	40.23	26.19	41.00	33.98	7.02	5.838		
1,300.00	1,299.94	1,300.01	1,299.92	3.87	3.87	14.51	40.70	25.80	40.66	32.92	7.74	5.255		
1,400.00	1,399.94	1,400.10	1,400.00	4.22	4.22	7.30	41.05	25.38	39.97	31.53	8.45	4.732		
1,500.00	1,499.94	1,500.11	1,500.01	4.58	4.58	7.96	41.19	24.90	38.85	29.70	9.15	4.244		
1,540.89	1,540.83	1,540.63	1,540.53	4.72	4.72	13.57	41.30	24.81	38.52	29.08	9.44	4.079 CC, ES		
1,600.00	1,599.93	1,598.68	1,598.56	4.93	4.92	29.97	42.39	25.42	39.35	29.49	9.85	3.993 SF		
1,700.00	1,699.93	1,695.79	1,695.45	5.29	5.27	40.85	47.56	29.10	45.53	35.01	10.52	4.329		
1,800.00	1,799.93	1,792.46	1,791.35	5.65	5.61	64.53	57.24	36.34	57.76	46.60	11.16	5.176		
1,900.00	1,899.93	1,888.04	1,885.51	6.01	5.97	65.54	70.20	46.29	74.67	62.89	11.78	6.341		
2,000.00	1,999.90	1,981.64	1,976.92	6.36	6.34	124.98	85.87	58.91	97.17	84.81	12.36	7.860		
2,100.00	2,099.70	2,071.12	2,063.28	6.71	6.71	125.48	103.69	74.04	126.81	113.92	12.88	9.842		
2,200.00	2,199.30	2,158.17	2,146.07	7.06	7.10	126.19	124.01	91.62	162.66	149.26	13.40	12.138		
2,300.00	2,298.85	2,246.26	2,228.87	7.42	7.53	127.80	147.16	110.80	202.00	188.01	13.99	14.444		
2,400.00	2,398.39	2,335.64	2,312.48	7.78	7.99	130.23	171.47	130.98	242.75	228.13	14.62	16.604		
2,500.00	2,497.95	2,429.01	2,399.75	8.08	8.49	132.55	197.15	152.04	283.82	268.52	15.30	18.551		
2,600.00	2,597.52	2,525.11	2,489.95	8.21	9.01	134.12	223.84	171.71	323.71	307.84	15.87	20.396		
2,700.00	2,697.09	2,558.00	2,520.91	8.25	9.19	134.65	232.86	178.16	367.77	352.49	15.28	24.073		
2,800.00	2,796.69	2,558.00	2,520.91	8.30	9.19	137.37	232.86	178.16	429.71	415.67	14.04	30.607		
2,900.00	2,896.32	2,558.00	2,520.91	8.37	9.19	140.43	232.86	178.16	504.02	491.04	12.99	38.815		
3,000.00	2,995.99	2,558.00	2,520.91	8.46	9.19	141.86	232.86	178.16	585.98	573.79	12.19	48.083		
3,100.00	3,095.65	2,558.00	2,520.91	8.56	9.19	143.20	232.86	178.16	672.87	661.25	11.61	57.949		
3,200.00	3,195.34	2,558.00	2,520.91	8.68	9.19	144.66	232.86	178.16	762.93	751.72	11.21	68.084		
3,300.00	3,295.04	2,558.00	2,520.91	8.81	9.19	147.68	232.86	178.16	855.19	844.27	10.92	78.298		
3,400.00	3,394.76	2,558.00	2,520.91	8.95	9.19	151.81	232.86	178.16	949.01	938.28	10.73	88.436		
3,500.00	3,494.46	2,558.00	2,520.91	9.11	9.19	153.79	232.86	178.16	1,044.11	1,033.50	10.61	98.398		
3,600.00	3,594.16	2,558.00	2,520.91	9.28	9.19	162.74	232.86	178.16	1,140.08	1,129.54	10.54	108.138		
3,700.00	3,693.91	2,558.00	2,520.91	9.46	9.19	173.95	232.86	178.16	1,236.64	1,226.13	10.51	117.666		
3,800.00	3,793.72	2,558.00	2,520.91	9.64	9.19	-177.63	232.86	178.16	1,333.47	1,322.97	10.50	127.011		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
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	48.20	40.07	44.81	60.12				
100.00	100.00	100.00	100.00	0.13	0.13	58.87	40.07	44.81	60.04	59.77	0.27	223.191	
200.00	200.00	200.00	200.00	0.31	0.49	59.26	40.07	44.81	59.79	58.99	0.81	74.105	
300.00	300.00	300.00	300.00	0.49	0.85	59.91	40.07	44.81	59.40	58.05	1.34	44.169	
400.00	399.99	399.99	399.99	0.67	1.21	60.84	40.07	44.81	58.85	56.97	1.88	31.260	
500.00	499.98	499.98	499.98	1.00	1.57	57.40	40.07	44.81	58.07	55.50	2.57	22.587	
600.00	599.96	599.96	599.96	1.36	1.93	59.59	40.07	44.81	57.13	53.84	3.29	17.372	
700.00	699.95	699.95	699.95	1.72	2.29	58.50	40.07	44.81	56.47	52.47	4.01	14.099	
800.00	799.95	799.95	799.95	2.08	2.64	60.03	40.07	44.81	56.03	51.31	4.72	11.865	
900.00	899.95	899.95	899.95	2.44	3.00	68.97	40.07	44.81	55.74	50.30	5.44	10.248	
1,000.00	999.95	999.95	999.95	2.79	3.36	69.50	40.07	44.81	55.63	49.47	6.16	9.038	
1,100.00	1,099.95	1,099.95	1,099.95	3.15	3.72	62.06	40.07	44.81	55.41	48.54	6.87	8.063	
1,200.00	1,199.94	1,199.94	1,199.94	3.51	4.08	51.77	40.07	44.81	55.18	47.59	7.59	7.272	
1,300.00	1,299.94	1,299.94	1,299.94	3.87	4.44	29.98	40.07	44.81	54.81	46.51	8.30	6.602	
1,400.00	1,399.94	1,399.94	1,399.94	4.22	4.79	23.69	40.07	44.81	54.20	45.18	9.02	6.011	
1,500.00	1,499.94	1,499.86	1,499.86	4.58	5.15	25.24	40.08	44.82	53.37	43.64	9.73	5.485	
1,514.20	1,514.13	1,513.69	1,513.69	4.63	5.20	26.97	40.13	44.86	53.31	43.48	9.83	5.424 CC, ES	
1,600.00	1,599.93	1,597.25	1,597.20	4.93	5.50	47.04	42.15	46.43	55.21	44.79	10.42	5.297	
1,700.00	1,699.93	1,694.15	1,693.80	5.29	5.84	56.27	48.09	51.07	62.36	51.27	11.09	5.623	
1,800.00	1,799.93	1,790.06	1,788.91	5.65	6.19	77.74	57.76	58.63	74.50	62.77	11.73	6.353	
1,900.00	1,899.93	1,884.53	1,881.87	6.01	6.54	76.44	70.96	68.93	91.65	79.32	12.33	7.434	
2,000.00	1,999.90	1,976.82	1,971.79	6.36	6.90	133.47	87.33	81.72	115.03	102.14	12.89	8.924	
2,100.00	2,099.70	2,066.00	2,057.62	6.71	7.26	131.61	106.39	96.60	145.77	132.35	13.42	10.861	
2,200.00	2,199.30	2,151.84	2,139.08	7.06	7.64	130.46	127.69	113.23	182.33	168.41	13.92	13.100	
2,300.00	2,298.85	2,240.19	2,221.86	7.42	8.06	130.94	152.02	132.23	222.46	207.94	14.51	15.329	
2,400.00	2,398.39	2,331.59	2,307.40	7.78	8.52	132.62	177.41	152.06	263.03	247.84	15.19	17.320	
2,500.00	2,497.95	2,422.95	2,392.89	8.08	8.99	134.42	202.79	171.88	303.70	287.87	15.82	19.192	
2,600.00	2,597.52	2,514.26	2,478.34	8.21	9.49	135.91	228.16	191.69	344.47	328.15	16.32	21.109	
2,700.00	2,697.09	2,605.52	2,563.75	8.25	9.99	136.38	253.51	211.49	385.35	368.63	16.71	23.054	
2,800.00	2,796.69	2,696.81	2,649.18	8.30	10.51	138.91	278.87	231.29	426.16	409.03	17.13	24.878	
2,900.00	2,896.32	2,788.10	2,734.61	8.37	11.04	141.59	304.24	251.09	466.96	449.40	17.56	26.589	
3,000.00	2,995.99	2,879.43	2,820.08	8.46	11.58	142.68	329.61	270.91	507.66	489.65	18.01	28.188	
3,100.00	3,095.65	2,970.73	2,905.52	8.56	12.13	143.72	354.97	290.71	548.43	529.96	18.47	29.689	
3,200.00	3,195.34	3,062.07	2,991.00	8.68	12.68	144.73	380.34	310.53	589.11	570.16	18.95	31.086	
3,300.00	3,295.04	3,153.42	3,076.48	8.81	13.24	147.09	405.72	330.34	629.76	610.32	19.44	32.390	
3,400.00	3,394.76	3,244.76	3,161.97	8.95	13.80	150.47	431.10	350.16	670.39	650.44	19.95	33.607	
3,500.00	3,494.46	3,335.92	3,247.27	9.11	14.37	152.14	456.42	369.93	711.44	690.98	20.46	34.765	
3,600.00	3,594.16	3,427.01	3,332.52	9.28	14.94	159.04	481.73	389.69	752.63	731.64	20.99	35.854	
3,700.00	3,693.91	3,518.10	3,417.76	9.46	15.52	167.92	507.03	409.45	793.73	772.21	21.52	36.876	
3,800.00	3,793.72	3,609.50	3,503.30	9.64	16.10	174.70	532.42	429.28	834.03	811.97	22.06	37.799	
3,900.00	3,893.71	3,702.64	3,590.46	9.82	16.69	-154.48	558.29	449.49	870.02	847.41	22.61	38.475	
4,000.00	3,993.71	3,796.03	3,677.85	10.00	17.29	-160.36	584.24	469.75	905.36	882.18	23.17	39.067	
4,100.00	4,093.56	3,889.02	3,764.88	10.18	17.89	-92.61	610.07	489.92	940.83	917.10	23.73	39.645	
4,200.00	4,191.71	3,979.59	3,849.64	10.34	18.47	-87.49	635.23	509.57	976.35	952.11	24.25	40.270	
4,300.00	4,285.99	4,066.31	3,930.79	10.50	19.03	-81.76	659.32	528.38	1,010.44	985.71	24.73	40.853	
4,400.00	4,374.16	4,147.83	4,007.08	10.66	19.56	-79.91	681.97	546.06	1,041.83	1,016.59	25.24	41.271	
4,500.00	4,454.00	4,221.08	4,075.63	10.84	20.04	-81.13	702.32	561.95	1,074.00	1,048.17	25.83	41.579	
4,600.00	4,522.75	4,309.59	4,158.44	11.34	20.61	-82.73	723.66	584.48	1,110.46	1,083.66	26.80	41.443	
4,700.00	4,577.65	4,425.30	4,264.67	12.09	21.34	-83.10	736.95	627.86	1,148.27	1,120.05	28.22	40.687	
4,800.00	4,621.40	4,593.46	4,406.78	13.11	22.33	-86.06	725.56	715.90	1,183.22	1,153.00	30.22	39.152	
4,900.00	4,652.61	4,828.13	4,560.33	14.41	23.64	-88.17	651.35	874.65	1,208.57	1,175.63	32.94	36.693	
5,000.00	4,666.66	5,100.40	4,666.33	15.93	25.57	-90.21	507.52	1,077.53	1,224.93	1,188.40	36.54	33.526	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,100.00	4,669.58	5,303.79	4,677.95	17.61	27.43	-90.41	366.82	1,223.19	1,224.32	1,184.03	40.28	30.392	
5,200.00	4,666.89	5,403.73	4,677.44	19.43	28.56	-90.56	295.57	1,293.27	1,221.74	1,178.22	43.51	28.077	
5,300.00	4,664.19	5,503.62	4,676.93	21.34	29.83	-90.62	224.36	1,363.32	1,217.74	1,170.71	47.03	25.894	
5,400.00	4,663.31	5,603.61	4,676.41	23.31	31.23	-90.62	153.07	1,433.43	1,216.33	1,165.64	50.69	23.994	
5,500.00	4,660.98	5,703.58	4,675.90	25.34	32.75	-90.73	81.80	1,503.54	1,215.22	1,160.74	54.48	22.304	
5,600.00	4,659.81	5,803.56	4,675.39	27.41	34.36	-90.73	10.53	1,573.65	1,213.53	1,155.14	58.39	20.784	
5,661.19	4,660.39	5,864.75	4,675.07	28.69	35.38	-90.69	-33.09	1,616.56	1,213.39	1,152.56	60.83	19.948	
5,700.00	4,661.14	5,903.54	4,674.87	29.50	36.05	-90.65	-60.75	1,643.76	1,213.55	1,151.16	62.39	19.452	
5,800.00	4,661.23	6,003.53	4,674.36	31.63	37.81	-90.62	-132.03	1,713.88	1,213.10	1,146.64	66.46	18.254	
5,900.00	4,658.93	6,103.51	4,673.85	33.78	39.62	-90.75	-203.30	1,783.98	1,211.80	1,141.22	70.58	17.169	
5,954.65	4,657.52	6,158.14	4,673.57	34.96	40.64	-90.76	-242.25	1,822.29	1,211.15	1,138.29	72.86	16.624	
6,000.00	4,657.08	6,203.48	4,673.33	35.94	41.49	-90.76	-274.58	1,854.09	1,211.70	1,136.94	74.75	16.209	
6,100.00	4,655.96	6,303.46	4,672.82	38.10	43.40	-90.77	-345.85	1,924.20	1,213.87	1,134.91	78.95	15.374	
6,200.00	4,653.59	6,403.42	4,672.31	40.27	45.35	-90.87	-417.11	1,994.30	1,215.96	1,132.78	83.19	14.617	
6,300.00	4,654.93	6,503.39	4,671.79	42.47	47.32	-90.79	-488.38	2,064.40	1,216.54	1,129.07	87.48	13.907	
6,400.00	4,657.38	6,603.34	4,671.28	44.68	49.33	-90.64	-559.64	2,134.49	1,215.96	1,124.15	91.81	13.245	
6,500.00	4,658.73	6,703.31	4,670.77	46.90	51.36	-90.56	-630.91	2,204.59	1,214.56	1,118.40	96.16	12.630	
6,600.00	4,658.53	6,803.30	4,670.25	49.13	53.41	-90.57	-702.19	2,274.71	1,212.93	1,112.40	100.53	12.065	
6,700.00	4,656.34	6,903.26	4,669.74	51.37	55.49	-90.67	-773.45	2,344.81	1,211.04	1,106.13	104.91	11.543	
6,800.00	4,653.02	7,003.20	4,669.23	53.62	57.57	-90.79	-844.70	2,414.89	1,209.13	1,099.82	109.31	11.062	
6,900.00	4,653.18	7,103.17	4,668.72	55.87	59.68	-90.72	-915.97	2,484.99	1,207.05	1,093.32	113.73	10.613	
7,000.00	4,654.18	7,203.09	4,668.20	58.14	61.79	-90.66	-987.20	2,555.06	1,203.31	1,085.13	118.18	10.182	
7,100.00	4,655.11	7,303.01	4,667.69	60.40	63.92	-90.56	-1,058.44	2,625.13	1,199.84	1,077.21	122.63	9.784	
7,200.00	4,658.90	7,402.91	4,667.18	62.66	66.06	-90.37	-1,129.65	2,695.18	1,198.18	1,071.09	127.10	9.427	
7,300.00	4,661.78	7,502.83	4,666.66	64.92	68.21	-90.20	-1,200.89	2,765.25	1,196.36	1,064.79	131.57	9.093	
7,353.07	4,662.87	7,555.89	4,666.39	66.12	69.35	-90.17	-1,238.71	2,802.45	1,195.73	1,061.79	133.94	8.927	
7,400.00	4,663.68	7,602.79	4,666.15	67.18	70.37	-90.14	-1,272.15	2,835.35	1,195.88	1,059.84	136.04	8.791	
7,500.00	4,665.04	7,702.75	4,665.64	69.41	72.53	-90.04	-1,343.41	2,905.44	1,197.94	1,057.44	140.49	8.527	
7,600.00	4,664.82	7,802.73	4,665.12	71.66	74.70	-90.00	-1,414.69	2,975.55	1,199.88	1,054.93	144.95	8.278	
7,700.00	4,662.48	7,902.70	4,664.61	73.90	76.88	-90.08	-1,485.95	3,045.65	1,201.72	1,052.31	149.41	8.043	
7,800.00	4,659.07	8,002.65	4,664.10	76.16	79.07	-90.25	-1,557.21	3,115.75	1,201.81	1,047.93	153.88	7.810	
7,885.48	4,655.94	8,088.08	4,663.66	78.09	80.94	-90.36	-1,618.12	3,175.66	1,201.59	1,043.88	157.71	7.619	
7,900.00	4,655.02	8,102.59	4,663.58	78.42	81.26	-90.40	-1,628.46	3,185.83	1,201.37	1,043.02	158.35	7.587	
8,000.00	4,653.14	8,202.55	4,663.07	80.67	83.46	-90.46	-1,699.72	3,255.93	1,203.27	1,040.44	162.83	7.390	
8,100.00	4,652.74	8,302.51	4,662.56	82.91	85.66	-90.46	-1,770.98	3,326.02	1,206.14	1,038.84	167.30	7.209	
8,200.00	4,652.27	8,402.46	4,662.05	85.15	87.87	-90.45	-1,842.24	3,396.11	1,209.28	1,037.50	171.78	7.040	
8,300.00	4,650.67	8,502.43	4,661.53	87.40	90.08	-90.49	-1,913.51	3,466.21	1,211.67	1,035.41	176.26	6.874	
8,400.00	4,648.42	8,602.39	4,661.02	89.66	92.29	-90.59	-1,984.77	3,536.31	1,213.46	1,032.72	180.75	6.714	
8,500.00	4,648.28	8,702.39	4,660.51	91.92	94.51	-90.58	-2,056.06	3,606.43	1,213.68	1,028.43	185.26	6.551	
8,600.00	4,648.67	8,802.39	4,659.99	94.19	96.73	-90.53	-2,127.35	3,676.55	1,213.63	1,023.85	189.78	6.395	
8,700.00	4,648.52	8,902.38	4,659.48	96.47	98.95	-90.52	-2,198.63	3,746.67	1,212.48	1,018.17	194.30	6.240	
8,800.00	4,647.35	9,002.34	4,658.97	98.76	101.18	-90.58	-2,269.90	3,816.77	1,209.94	1,011.11	198.84	6.085	
8,900.00	4,646.47	9,102.31	4,658.45	101.04	103.41	-90.57	-2,341.16	3,886.87	1,207.80	1,004.43	203.37	5.939	
8,964.27	4,647.09	9,166.57	4,658.12	102.50	104.84	-90.52	-2,386.98	3,931.93	1,207.60	1,001.32	206.28	5.854	
9,000.00	4,647.77	9,202.29	4,657.94	103.32	105.64	-90.48	-2,412.44	3,956.99	1,207.78	999.88	207.90	5.809	
9,100.00	4,647.91	9,302.28	4,657.43	105.60	107.88	-90.46	-2,483.73	4,027.10	1,206.68	994.24	212.44	5.680	
9,200.00	4,645.87	9,402.25	4,656.91	107.89	110.11	-90.57	-2,554.99	4,097.20	1,204.54	987.57	216.97	5.552	
9,296.71	4,644.62	9,498.94	4,656.42	110.09	112.28	-90.56	-2,623.93	4,165.01	1,203.31	981.95	221.36	5.436	
9,300.00	4,644.68	9,502.23	4,656.40	110.17	112.35	-90.56	-2,626.27	4,167.31	1,203.40	981.89	221.51	5.433	
9,400.00	4,645.90	9,602.21	4,655.89	112.44	114.59	-90.48	-2,697.55	4,237.43	1,203.45	977.40	226.05	5.324	
9,500.00	4,648.38	9,702.16	4,655.37	114.71	116.83	-90.35	-2,768.80	4,307.52	1,204.14	973.55	230.59	5.222	
9,600.00	4,652.60	9,802.05	4,654.86	116.98	119.07	-90.13	-2,840.01	4,377.56	1,204.62	969.49	235.13	5.123	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - rev2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,700.00	4,655.75	9,901.95	4,654.35	119.23	121.32	-89.99	-2,911.23	4,447.62	1,206.83	967.17	239.66	5.036	
9,800.00	4,659.08	10,001.82	4,653.84	121.48	123.56	-89.79	-2,982.43	4,517.65	1,210.31	966.13	244.18	4.957	
9,900.00	4,658.60	10,101.78	4,653.32	123.74	125.81	-89.75	-3,053.69	4,587.74	1,212.65	963.95	248.70	4.876	
10,000.00	4,656.51	10,201.75	4,652.81	126.03	128.06	-89.86	-3,124.96	4,657.85	1,210.99	957.74	253.24	4.782	
10,100.00	4,653.92	10,301.70	4,652.30	128.31	130.31	-89.92	-3,196.22	4,727.94	1,209.09	951.31	257.79	4.690	
10,102.57	4,653.89	10,304.28	4,652.28	128.37	130.37	-89.92	-3,198.05	4,729.74	1,209.09	951.19	257.90	4.688	
10,200.00	4,654.13	10,401.69	4,651.78	130.58	132.56	-89.90	-3,267.50	4,798.05	1,210.50	948.17	262.33	4.614	
10,300.00	4,655.04	10,501.65	4,651.27	132.84	134.82	-89.80	-3,338.76	4,868.15	1,212.18	945.32	266.86	4.542	
10,400.00	4,652.21	10,601.53	4,650.76	135.09	137.07	-89.86	-3,409.97	4,938.19	1,216.44	945.08	271.36	4.483	
10,500.00	4,649.97	10,701.45	4,650.24	137.34	139.32	-89.99	-3,481.20	5,008.26	1,220.22	944.35	275.87	4.423	
10,600.00	4,650.23	10,801.38	4,649.73	139.59	141.58	-90.00	-3,552.44	5,078.34	1,223.54	943.15	280.39	4.364	
10,700.00	4,650.17	10,901.33	4,649.22	141.85	143.83	-89.91	-3,623.70	5,148.43	1,226.31	941.40	284.92	4.304	
10,800.00	4,647.38	11,001.27	4,648.70	144.10	146.09	-90.03	-3,694.94	5,218.51	1,229.08	939.65	289.43	4.247	
10,900.00	4,646.16	11,101.25	4,648.19	146.37	148.35	-90.09	-3,766.22	5,288.61	1,230.92	936.95	293.96	4.187	
11,000.00	4,645.82	11,201.24	4,647.68	148.65	150.61	-90.09	-3,837.50	5,358.73	1,230.32	931.80	298.52	4.121	
11,100.00	4,646.73	11,301.19	4,647.16	150.95	152.87	-90.00	-3,908.76	5,428.82	1,227.62	924.53	303.09	4.050	
11,200.00	4,646.41	11,401.16	4,646.65	153.24	155.13	-90.03	-3,980.03	5,498.93	1,225.53	917.88	307.66	3.983	
11,300.00	4,643.45	11,501.13	4,646.14	155.53	157.40	-90.14	-4,051.29	5,569.03	1,224.74	912.54	312.20	3.923	
11,400.00	4,642.72	11,601.12	4,645.63	157.82	159.66	-90.13	-4,122.57	5,639.14	1,223.56	906.80	316.76	3.863	
11,500.00	4,643.70	11,701.08	4,645.11	160.12	161.92	-90.04	-4,193.84	5,709.24	1,221.41	900.07	321.33	3.801	
11,600.00	4,645.75	11,801.01	4,644.60	162.41	164.19	-89.92	-4,265.08	5,779.31	1,218.57	892.66	325.91	3.739	
11,700.00	4,647.13	11,900.95	4,644.09	164.72	166.45	-89.83	-4,336.33	5,849.40	1,215.78	885.29	330.49	3.679	
11,800.00	4,648.08	12,000.84	4,643.57	167.02	168.71	-89.78	-4,407.54	5,919.45	1,211.46	876.38	335.07	3.615	
11,900.00	4,647.47	12,100.79	4,643.06	169.33	170.98	-89.81	-4,478.79	5,989.53	1,208.06	868.41	339.65	3.557	
12,000.00	4,646.52	12,200.67	4,642.55	171.64	173.24	-89.85	-4,550.00	6,059.58	1,203.36	859.12	344.23	3.496	
12,100.00	4,645.14	12,300.48	4,642.04	173.89	175.51	-89.90	-4,621.16	6,129.57	1,197.26	848.52	348.75	3.433	
12,156.00	4,644.46	12,356.35	4,641.75	174.81	176.77	-89.92	-4,660.99	6,168.75	1,193.47	842.53	350.94	3.401 SF	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 415-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	48.20	40.07	44.81	60.12				
100.00	100.00	100.04	100.04	0.13	0.17	58.79	40.12	44.73	60.00	59.70	0.30	197.956	
200.00	200.00	200.08	200.08	0.31	0.34	58.93	40.24	44.48	59.65	59.00	0.65	91.623	
300.00	300.00	300.12	300.12	0.49	0.51	59.17	40.44	44.07	59.08	58.08	1.00	59.130	
400.00	399.99	400.16	400.16	0.67	0.67	59.51	40.73	43.49	58.27	56.92	1.35	43.254	
500.00	499.98	500.15	500.14	1.00	1.00	55.13	41.25	42.66	57.16	55.15	2.01	28.474	
600.00	599.96	600.13	600.11	1.36	1.36	56.07	41.99	41.65	55.85	53.13	2.72	20.499	
700.00	699.95	700.08	700.06	1.72	1.72	53.57	42.85	40.60	54.88	51.44	3.44	15.947	
800.00	799.95	800.06	800.02	2.08	2.08	53.77	43.71	39.69	54.25	50.09	4.16	13.047	
900.00	899.95	900.15	900.11	2.44	2.44	61.51	44.38	38.77	53.64	48.76	4.88	11.003	
1,000.00	999.95	1,000.06	1,000.02	2.79	2.79	61.42	44.64	38.20	53.23	47.65	5.58	9.534	
1,100.00	1,099.95	1,099.94	1,099.88	3.15	3.12	55.94	43.26	39.41	52.97	46.70	6.28	8.441	
1,200.00	1,199.94	1,199.98	1,199.88	3.51	3.46	48.77	41.09	41.32	52.88	45.92	6.96	7.593	
1,300.00	1,299.94	1,299.93	1,299.78	3.87	3.79	30.29	38.67	43.16	52.66	45.00	7.66	6.877	
1,339.95	1,339.89	1,339.75	1,339.59	4.01	3.93	28.43	37.77	43.90	52.60	44.67	7.93	6.629 CC	
1,400.00	1,399.94	1,399.13	1,398.94	4.22	4.13	26.85	36.89	45.26	52.95	44.60	8.35	6.341 ES	
1,500.00	1,499.94	1,498.23	1,497.99	4.58	4.47	29.95	36.97	48.35	54.93	45.88	9.04	6.074	
1,600.00	1,599.93	1,597.28	1,596.94	4.93	4.82	52.28	39.34	51.94	58.58	48.84	9.74	6.016 SF	
1,700.00	1,699.93	1,694.82	1,694.21	5.29	5.16	61.13	45.03	56.31	65.12	54.70	10.42	6.251	
1,800.00	1,799.93	1,790.34	1,789.00	5.65	5.50	81.98	54.37	63.40	76.43	65.38	11.05	6.915	
1,900.00	1,899.93	1,884.07	1,881.24	6.01	5.85	80.68	66.71	74.43	93.52	81.88	11.65	8.031	
2,000.00	1,999.90	1,976.29	1,971.03	6.36	6.21	137.82	82.08	88.72	117.30	105.09	12.22	9.601	
2,100.00	2,099.70	2,064.85	2,056.20	6.71	6.58	135.76	100.17	104.89	148.60	135.85	12.75	11.659	
2,200.00	2,199.30	2,149.77	2,136.56	7.06	6.97	134.06	121.25	122.41	186.10	172.86	13.24	14.058	
2,300.00	2,298.85	2,234.62	2,215.47	7.42	7.39	133.60	146.32	140.91	227.69	213.92	13.77	16.539	
2,400.00	2,398.39	2,321.61	2,295.67	7.78	7.85	134.43	173.63	160.66	271.25	256.89	14.37	18.880	
2,500.00	2,497.95	2,411.16	2,378.05	8.08	8.36	135.65	201.86	181.50	315.44	300.45	14.99	21.040	
2,600.00	2,597.52	2,503.48	2,463.18	8.21	8.89	136.80	230.30	203.13	359.41	343.89	15.53	23.147	
2,700.00	2,697.09	2,597.18	2,549.93	8.25	9.45	137.03	258.46	224.59	402.62	386.64	15.98	25.198	
2,800.00	2,796.69	2,640.00	2,589.67	8.30	9.71	139.54	271.20	234.20	447.86	432.16	15.70	28.518	
2,900.00	2,896.32	2,640.00	2,589.67	8.37	9.71	142.47	271.20	234.20	507.20	492.47	14.73	34.427	
3,000.00	2,995.99	2,640.00	2,589.67	8.46	9.71	143.83	271.20	234.20	577.79	563.95	13.84	41.753	
3,100.00	3,095.65	2,640.00	2,589.67	8.56	9.71	145.12	271.20	234.20	656.11	643.00	13.11	50.057	
3,200.00	3,195.34	2,640.00	2,589.67	8.68	9.71	146.49	271.20	234.20	739.62	727.08	12.54	58.985	
3,300.00	3,295.04	2,640.00	2,589.67	8.81	9.71	149.36	271.20	234.20	826.77	814.66	12.11	68.270	
3,400.00	3,394.76	2,640.00	2,589.67	8.95	9.71	153.34	271.20	234.20	916.53	904.74	11.79	77.724	
3,500.00	3,494.46	2,640.00	2,589.67	9.11	9.71	155.30	271.20	234.20	1,008.39	996.82	11.57	87.184	
3,600.00	3,594.16	2,640.00	2,589.67	9.28	9.71	163.74	271.20	234.20	1,101.71	1,090.30	11.41	96.576	
3,700.00	3,693.91	2,640.00	2,589.67	9.46	9.71	174.41	271.20	234.20	1,196.03	1,184.73	11.30	105.840	
3,800.00	3,793.72	2,640.00	2,589.67	9.64	9.71	-177.56	271.20	234.20	1,290.91	1,279.68	11.22	115.006	
3,900.00	3,893.71	2,640.00	2,589.67	9.82	9.71	-146.08	271.20	234.20	1,385.04	1,373.89	11.15	124.163	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Rodeo Unit 511 pad (511, 512 & 513) - Rodeo Unit #512H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 412-MWD, 2697-MWD, 13793-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
11,200.00	4,646.41	4,256.31	4,226.48	153.24	11.36	-18.08	-5,661.33	5,656.24	1,396.11	1,358.80	37.30	37.425		
11,300.00	4,643.45	4,268.00	4,237.49	155.53	11.38	-20.02	-5,663.73	5,659.37	1,301.62	1,263.19	38.43	33.874		
11,400.00	4,642.72	4,268.00	4,237.49	157.82	11.38	-17.12	-5,663.73	5,659.37	1,208.57	1,168.57	39.99	30.219		
11,500.00	4,643.70	4,299.00	4,266.31	160.12	11.42	-16.73	-5,670.77	5,668.35	1,116.69	1,075.63	41.06	27.196		
11,600.00	4,645.75	4,299.00	4,266.31	162.41	11.42	-16.41	-5,670.77	5,668.35	1,026.20	983.12	43.08	23.818		
11,700.00	4,647.13	4,331.00	4,295.41	164.72	11.47	-16.86	-5,679.16	5,678.66	936.71	892.21	44.50	21.050		
11,800.00	4,648.08	4,331.00	4,295.41	167.02	11.47	-17.00	-5,679.16	5,678.66	848.23	801.14	47.09	18.012		
11,900.00	4,647.47	4,362.00	4,322.86	169.33	11.52	-18.54	-5,688.48	5,689.64	760.74	711.68	49.06	15.505		
12,000.00	4,646.52	4,382.50	4,340.57	171.64	11.55	-18.31	-5,695.27	5,697.39	674.94	623.19	51.75	13.042		
12,100.00	4,645.14	4,407.37	4,361.57	173.89	11.60	-18.22	-5,704.18	5,707.30	591.01	536.05	54.97	10.752		
12,156.00	4,644.46	4,425.00	4,376.07	174.81	11.63	-19.02	-5,710.92	5,714.74	545.28	486.99	58.29	9.354 CC, ES, SF		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Rodeo Unit 511 pad (511, 512 & 513) - Rodeo Unit #513H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 412-MWD, 2745-MWD, 15103-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		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	4,646.73	4,394.00	4,072.39	150.95	25.17	54.16	-5,987.04	4,571.93	1,363.31	1,249.99	113.32	12.031	
11,200.00	4,646.41	4,394.00	4,072.39	153.24	25.17	54.96	-5,987.04	4,571.93	1,302.16	1,183.21	118.96	10.946	
11,300.00	4,643.45	4,408.50	4,085.06	155.53	25.25	55.89	-5,993.62	4,569.36	1,243.72	1,118.14	125.58	9.904	
11,400.00	4,642.72	4,426.00	4,100.26	157.82	25.34	56.07	-6,001.83	4,566.59	1,192.11	1,059.63	132.48	8.998	
11,500.00	4,643.70	4,432.10	4,105.54	160.12	25.37	56.29	-6,004.76	4,565.72	1,148.22	1,009.60	138.63	8.283	
11,600.00	4,645.75	4,449.02	4,120.13	162.41	25.45	57.13	-6,013.05	4,563.52	1,112.43	967.27	145.16	7.664	
11,700.00	4,647.13	4,469.92	4,138.03	164.72	25.54	58.40	-6,023.61	4,561.30	1,083.83	932.35	151.48	7.155	
11,800.00	4,648.08	4,497.15	4,161.14	167.02	25.66	59.93	-6,037.84	4,559.21	1,064.33	906.72	157.61	6.753	
11,900.00	4,647.47	4,540.96	4,197.89	169.33	25.82	62.24	-6,061.64	4,557.89	1,051.34	887.32	164.02	6.410	
12,000.00	4,646.52	4,869.08	4,457.83	171.64	26.13	77.33	-6,238.45	4,637.84	1,040.73	860.14	180.59	5.763	
12,100.00	4,645.14	4,942.24	4,507.10	173.89	26.05	80.11	-6,277.02	4,675.67	1,028.63	843.26	185.38	5.549	
12,156.00	4,644.46	4,978.21	4,528.65	174.81	26.01	81.33	-6,297.04	4,696.35	1,024.17	836.82	187.35	5.467 CC, ES, SF	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Original Hole - Surveys Original												Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 5231-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	3.00	3.00	0.00	0.01	-18.66	144.48	-48.78	152.49				
100.00	100.00	102.83	102.83	0.13	0.17	-8.16	144.49	-48.92	152.39	152.09	0.31	495.990	
200.00	200.00	202.67	202.67	0.31	0.34	-8.33	144.53	-49.33	152.09	151.43	0.65	232.454	
300.00	300.00	302.51	302.50	0.49	0.51	-8.60	144.58	-50.00	151.58	150.58	1.00	151.392	
400.00	399.99	402.33	402.33	0.67	0.68	-8.99	144.66	-50.93	150.87	149.53	1.35	111.910	
500.00	499.98	502.21	502.19	1.00	0.98	-14.28	144.73	-52.20	149.89	147.91	1.98	75.755	
600.00	599.96	602.79	602.76	1.36	1.32	-13.43	145.36	-51.45	148.47	145.79	2.68	55.371	
700.00	699.95	703.21	703.15	1.72	1.66	-14.75	146.17	-49.00	147.17	143.79	3.38	43.547	
800.00	799.95	803.18	803.08	2.08	2.01	-13.01	146.92	-46.47	146.26	142.17	4.08	35.815	
900.00	899.95	903.14	903.02	2.44	2.36	-3.90	147.44	-44.48	145.50	140.71	4.79	30.366	
1,000.00	999.95	1,002.90	1,002.77	2.79	2.71	-3.09	147.98	-42.87	145.14	139.64	5.50	26.384	
1,100.00	1,099.95	1,103.28	1,103.11	3.15	3.06	-10.09	148.70	-40.64	144.74	138.52	6.22	23.286	
1,183.33	1,183.28	1,185.98	1,185.65	3.45	3.36	-16.90	150.00	-35.72	144.36	137.55	6.81	21.193 CC	
1,200.00	1,199.94	1,202.35	1,201.96	3.51	3.42	-18.21	150.44	-34.28	144.39	137.46	6.93	20.832 ES	
1,300.00	1,299.94	1,300.95	1,299.75	3.87	3.79	-35.52	154.10	-22.39	145.37	137.71	7.65	18.991	
1,400.00	1,399.94	1,398.65	1,395.84	4.22	4.17	-35.48	158.86	-5.41	148.20	139.81	8.39	17.666	
1,500.00	1,499.94	1,494.65	1,489.17	4.58	4.58	-26.31	164.27	16.36	154.14	145.01	9.13	16.886	
1,600.00	1,599.93	1,588.38	1,579.01	4.93	5.02	4.77	170.03	42.41	164.99	155.14	9.85	16.746 SF	
1,700.00	1,699.93	1,677.28	1,662.94	5.29	5.49	24.38	176.35	71.00	182.71	172.21	10.51	17.389	
1,800.00	1,799.93	1,764.20	1,743.61	5.65	6.00	55.91	183.85	102.47	207.71	196.61	11.11	18.699	
1,900.00	1,899.93	1,853.62	1,825.44	6.01	6.57	63.74	192.01	137.59	238.38	226.65	11.73	20.316	
2,000.00	1,999.90	1,942.69	1,906.65	6.36	7.17	127.67	199.91	173.30	273.26	260.91	12.36	22.112	
2,100.00	2,099.70	2,030.64	1,986.63	6.71	7.79	130.76	207.76	209.03	313.24	300.26	12.98	24.134	
2,200.00	2,199.30	2,118.06	2,066.11	7.06	8.43	133.58	215.30	244.64	356.47	342.87	13.61	26.202	
2,300.00	2,298.85	2,204.98	2,145.16	7.42	9.08	137.38	222.75	280.02	401.35	387.12	14.24	28.189	
2,400.00	2,398.39	2,291.07	2,223.44	7.78	9.73	141.76	230.11	315.07	447.37	432.50	14.87	30.086	
2,500.00	2,497.95	2,375.98	2,300.50	8.08	10.38	145.83	237.22	350.02	494.44	478.98	15.46	31.982	
2,600.00	2,597.52	2,462.38	2,378.82	8.21	11.06	149.27	244.48	385.76	542.29	526.34	15.94	34.019	
2,700.00	2,697.09	2,553.70	2,461.77	8.25	11.78	151.44	252.06	423.20	590.23	573.84	16.38	36.032	
2,800.00	2,796.69	2,649.60	2,549.38	8.30	12.49	155.46	260.13	461.35	637.28	620.43	16.85	37.817	
2,900.00	2,896.32	2,741.79	2,633.96	8.37	12.93	159.37	267.53	497.27	683.51	666.49	17.02	40.154	
3,000.00	2,995.99	2,835.42	2,720.13	8.46	13.31	161.52	275.31	533.07	729.12	711.99	17.14	42.547	
3,100.00	3,095.65	2,934.16	2,811.41	8.56	13.72	163.43	284.13	569.66	774.01	756.70	17.31	44.716	
3,200.00	3,195.34	3,020.22	2,891.38	8.68	14.11	165.07	292.29	600.40	817.78	800.34	17.44	46.882	
3,300.00	3,295.04	3,088.00	2,953.69	8.81	14.43	167.95	299.12	626.18	863.62	846.11	17.51	49.325	
3,400.00	3,394.76	3,171.50	3,029.95	8.95	14.86	171.90	308.01	659.00	910.75	893.06	17.69	51.479	
3,500.00	3,494.46	3,272.12	3,122.21	9.11	15.40	174.10	319.29	697.55	957.50	939.50	18.00	53.208	
3,600.00	3,594.16	3,349.40	3,193.11	9.28	15.83	-178.59	327.44	727.19	1,004.11	985.91	18.20	55.169	
3,700.00	3,693.91	3,464.66	3,298.87	9.46	16.48	-169.05	337.54	771.88	1,050.06	1,031.43	18.63	56.368	
3,800.00	3,793.72	3,534.11	3,362.79	9.64	16.89	-162.23	343.07	798.44	1,094.15	1,075.31	18.84	58.086	
3,900.00	3,893.71	3,657.27	3,475.98	9.82	17.62	-130.87	352.05	846.11	1,134.34	1,115.00	19.34	58.667	
4,000.00	3,993.71	3,711.74	3,526.13	10.00	17.96	-136.24	356.19	866.96	1,173.32	1,153.82	19.50	60.176	
4,100.00	4,093.56	3,814.41	3,620.12	10.18	18.61	-67.89	364.78	907.33	1,212.19	1,192.26	19.93	60.811	
4,200.00	4,191.71	3,918.89	3,716.70	10.34	19.25	-62.82	374.67	945.91	1,243.12	1,222.72	20.40	60.928	
4,300.00	4,285.99	4,021.89	3,811.80	10.50	19.89	-57.92	386.52	983.66	1,266.90	1,245.98	20.92	60.550	
4,400.00	4,374.16	4,211.61	3,989.85	10.66	20.98	-59.25	408.56	1,045.11	1,278.07	1,256.08	21.99	58.129	
4,500.00	4,454.00	4,253.00	4,029.04	10.84	21.20	-61.75	413.68	1,057.40	1,280.81	1,258.33	22.48	56.966	
4,600.00	4,522.75	4,272.63	4,047.34	11.34	21.32	-63.90	416.68	1,063.83	1,284.75	1,261.60	23.14	55.513	
4,700.00	4,577.65	4,307.53	4,079.56	12.09	21.54	-64.79	423.59	1,075.32	1,288.92	1,264.67	24.25	53.147	
4,800.00	4,621.40	4,334.47	4,104.29	13.11	21.70	-65.42	430.55	1,083.39	1,293.22	1,267.53	25.69	50.342	
4,900.00	4,652.61	4,347.00	4,115.71	14.41	21.77	-65.14	434.34	1,086.87	1,297.23	1,269.85	27.38	47.372	
5,000.00	4,666.66	4,347.00	4,115.71	15.93	21.77	-64.89	434.34	1,086.87	1,300.65	1,271.35	29.30	44.388	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Original Hole - Surveys Original Hole														Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 5231-MWD														Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,100.00	4,669.58	4,347.00	4,115.71	17.61	21.77	-64.62	434.34	1,086.87	1,307.71	1,276.30	31.41	41.636			
5,200.00	4,666.89	4,347.00	4,115.71	19.43	21.77	-64.61	434.34	1,086.87	1,318.98	1,285.38	33.60	39.254			
5,300.00	4,664.19	4,347.00	4,115.71	21.34	21.77	-64.73	434.34	1,086.87	1,336.40	1,300.65	35.75	37.383			
5,400.00	4,663.31	4,347.00	4,115.71	23.31	21.77	-64.49	434.34	1,086.87	1,363.96	1,326.19	37.77	36.116			
5,500.00	4,660.98	4,347.00	4,115.71	25.34	21.77	-64.53	434.34	1,086.87	1,397.80	1,358.16	39.64	35.262			

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetrack 01													Offset Site Error: 0.00 ft
Survey Program: 432-MWD, 2692-MWD, 4630-MWD, 14739-MWD													Offset Well Error: 0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	3.00	3.00	0.00	0.01	-18.66	144.48	-48.78	152.49				
100.00	100.00	102.83	102.83	0.13	0.17	-8.16	144.49	-48.92	152.39	152.09	0.31	495.990	
200.00	200.00	202.67	202.67	0.31	0.34	-8.33	144.53	-49.33	152.09	151.43	0.65	232.454	
300.00	300.00	302.51	302.50	0.49	0.51	-8.60	144.58	-50.00	151.58	150.58	1.00	151.392	
400.00	399.99	402.33	402.33	0.67	0.68	-8.99	144.66	-50.93	150.87	149.53	1.35	111.910	
500.00	499.98	502.21	502.19	1.00	0.98	-14.28	144.73	-52.20	149.89	147.91	1.98	75.755	
600.00	599.96	602.79	602.76	1.36	1.32	-13.43	145.36	-51.45	148.47	145.79	2.68	55.371	
700.00	699.95	703.21	703.15	1.72	1.66	-14.75	146.17	-49.00	147.17	143.79	3.38	43.547	
800.00	799.95	803.18	803.08	2.08	2.01	-13.01	146.92	-46.47	146.26	142.17	4.08	35.815	
900.00	899.95	903.14	903.02	2.44	2.36	-3.90	147.44	-44.48	145.50	140.71	4.79	30.366	
1,000.00	999.95	1,002.90	1,002.77	2.79	2.71	-3.09	147.98	-42.87	145.14	139.64	5.50	26.384	
1,100.00	1,099.95	1,103.28	1,103.11	3.15	3.06	-10.09	148.70	-40.64	144.74	138.52	6.22	23.286	
1,183.33	1,183.28	1,185.98	1,185.65	3.45	3.36	-16.90	150.00	-35.72	144.36	137.55	6.81	21.193 CC	
1,200.00	1,199.94	1,202.35	1,201.96	3.51	3.42	-18.21	150.44	-34.28	144.39	137.46	6.93	20.832 ES	
1,300.00	1,299.94	1,300.95	1,299.75	3.87	3.79	-35.52	154.10	-22.39	145.37	137.71	7.65	18.991	
1,400.00	1,399.94	1,398.65	1,395.84	4.22	4.17	-35.48	158.86	-5.41	148.20	139.81	8.39	17.666	
1,500.00	1,499.94	1,494.65	1,489.17	4.58	4.58	-26.31	164.27	16.36	154.14	145.01	9.13	16.885	
1,600.00	1,599.93	1,588.38	1,579.01	4.93	5.02	4.77	170.03	42.41	164.99	155.14	9.85	16.746 SF	
1,700.00	1,699.93	1,677.28	1,662.94	5.29	5.49	24.38	176.35	71.00	182.71	172.21	10.51	17.389	
1,800.00	1,799.93	1,764.20	1,743.61	5.65	6.00	55.91	183.85	102.47	207.71	196.61	11.11	18.699	
1,900.00	1,899.93	1,853.62	1,825.44	6.01	6.57	63.74	192.01	137.59	238.38	226.65	11.73	20.316	
2,000.00	1,999.90	1,942.69	1,906.65	6.36	7.17	127.67	199.91	173.30	273.26	260.91	12.36	22.112	
2,100.00	2,099.70	2,030.64	1,986.63	6.71	7.79	130.76	207.76	209.03	313.24	300.26	12.98	24.134	
2,200.00	2,199.30	2,118.06	2,066.11	7.06	8.43	133.58	215.30	244.64	356.47	342.87	13.61	26.201	
2,300.00	2,298.85	2,204.98	2,145.16	7.42	9.08	137.38	222.75	280.02	401.35	387.12	14.24	28.189	
2,400.00	2,398.39	2,291.07	2,223.44	7.78	9.73	141.76	230.11	315.07	447.37	432.50	14.87	30.086	
2,500.00	2,497.95	2,375.98	2,300.50	8.08	10.39	145.83	237.22	350.02	494.44	478.98	15.46	31.982	
2,600.00	2,597.52	2,462.38	2,378.82	8.21	11.06	149.27	244.48	385.76	542.29	526.34	15.94	34.019	
2,700.00	2,697.09	2,553.70	2,461.77	8.25	11.78	151.44	252.06	423.20	590.23	573.84	16.38	36.032	
2,800.00	2,796.69	2,649.60	2,549.38	8.30	12.49	155.46	260.13	461.35	637.28	620.43	16.85	37.817	
2,900.00	2,896.32	2,741.79	2,633.96	8.37	12.93	159.37	267.53	497.27	683.51	666.49	17.02	40.154	
3,000.00	2,995.99	2,835.42	2,720.13	8.46	13.31	161.52	275.31	533.07	729.12	711.99	17.14	42.547	
3,100.00	3,095.65	2,934.16	2,811.41	8.56	13.72	163.43	284.13	569.66	774.01	756.70	17.31	44.716	
3,200.00	3,195.34	3,020.22	2,891.38	8.68	14.11	165.07	292.29	600.40	817.78	800.34	17.44	46.882	
3,300.00	3,295.04	3,088.00	2,953.69	8.81	14.43	167.95	299.12	626.18	863.62	846.11	17.51	49.325	
3,400.00	3,394.76	3,171.50	3,029.95	8.95	14.86	171.90	308.01	659.00	910.75	893.06	17.69	51.479	
3,500.00	3,494.46	3,272.12	3,122.21	9.11	15.40	174.10	319.29	697.55	957.50	939.50	18.00	53.208	
3,600.00	3,594.16	3,349.40	3,193.11	9.28	15.83	-178.59	327.44	727.19	1,004.11	985.91	18.20	55.169	
3,700.00	3,693.91	3,464.66	3,298.87	9.46	16.49	-169.05	337.54	771.88	1,050.06	1,031.43	18.63	56.368	
3,800.00	3,793.72	3,534.11	3,362.79	9.64	16.89	-162.23	343.07	798.44	1,094.15	1,075.31	18.84	58.086	
3,900.00	3,893.71	3,657.27	3,475.98	9.82	17.63	-130.87	352.05	846.11	1,134.34	1,115.00	19.34	58.667	
4,000.00	3,993.71	3,711.74	3,526.13	10.00	17.96	-136.24	356.19	866.96	1,173.32	1,153.82	19.50	60.176	
4,100.00	4,093.56	3,814.41	3,620.12	10.18	18.61	-67.89	364.78	907.33	1,212.19	1,192.26	19.93	60.811	
4,200.00	4,191.71	3,918.89	3,716.70	10.34	19.25	-62.82	374.67	945.91	1,243.12	1,222.72	20.40	60.928	
4,300.00	4,285.99	4,021.89	3,811.80	10.50	19.89	-57.92	386.52	983.66	1,266.90	1,245.98	20.92	60.550	
4,400.00	4,374.16	4,211.61	3,989.85	10.66	20.98	-59.25	408.56	1,045.11	1,278.07	1,256.08	21.99	58.129	
4,500.00	4,454.00	4,253.00	4,029.04	10.84	21.21	-61.75	413.68	1,057.40	1,280.81	1,258.33	22.48	56.966	
4,600.00	4,522.75	4,272.63	4,047.34	11.34	21.32	-63.90	416.68	1,063.83	1,284.75	1,261.60	23.14	55.513	
4,700.00	4,577.65	4,307.53	4,079.56	12.09	21.54	-64.79	423.59	1,075.32	1,288.92	1,264.67	24.25	53.147	
4,800.00	4,621.40	4,334.47	4,104.29	13.11	21.70	-65.42	430.55	1,083.39	1,293.22	1,267.53	25.69	50.341	
4,900.00	4,652.61	4,347.00	4,115.71	14.41	21.77	-65.14	434.34	1,086.87	1,297.23	1,269.85	27.38	47.372	
5,000.00	4,666.66	4,347.00	4,115.71	15.93	21.77	-64.89	434.34	1,086.87	1,300.65	1,271.35	29.30	44.387	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetrack 01														Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 4630-MWD, 14739-MWD														Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,100.00	4,669.58	4,347.00	4,115.71	17.61	21.77	-64.62	434.34	1,086.87	1,307.71	1,276.30	31.41	41.636			
5,200.00	4,666.89	4,347.00	4,115.71	19.43	21.77	-64.61	434.34	1,086.87	1,318.98	1,285.38	33.60	39.253			
5,300.00	4,664.19	4,347.00	4,115.71	21.34	21.77	-64.73	434.34	1,086.87	1,336.40	1,300.65	35.75	37.383			
5,400.00	4,663.31	4,347.00	4,115.71	23.31	21.77	-64.49	434.34	1,086.87	1,363.96	1,326.19	37.77	36.115			
5,500.00	4,660.98	4,347.00	4,115.71	25.34	21.77	-64.53	434.34	1,086.87	1,397.80	1,358.16	39.64	35.261			

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 728H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2695-MWD, 13517-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	3.00	3.00	0.00	0.01	-25.87	131.00	-63.52	145.59				
100.00	100.00	102.99	102.99	0.13	0.18	-15.13	131.23	-63.05	145.44	145.13	0.31	468.599	
200.00	200.00	202.97	202.95	0.31	0.35	-14.57	131.90	-61.68	145.00	144.34	0.66	219.549	
300.00	300.00	302.90	302.86	0.49	0.52	-13.65	133.01	-59.42	144.30	143.29	1.01	142.806	
400.00	399.99	402.78	402.67	0.67	0.69	-12.35	134.55	-56.26	143.38	142.02	1.36	105.401	
500.00	499.98	501.23	501.05	1.00	0.99	-15.76	136.55	-53.13	142.59	140.60	1.99	71.588	
600.00	599.96	601.07	600.84	1.36	1.34	-14.26	138.96	-51.34	142.45	139.74	2.71	52.653	
700.00	699.95	703.31	703.08	1.72	1.69	-16.44	139.60	-51.17	141.74	138.33	3.41	41.573	
800.00	799.95	803.69	803.43	2.08	2.02	-16.73	138.53	-53.33	140.71	136.61	4.10	34.311	
900.00	899.95	903.92	903.62	2.44	2.36	-9.65	136.99	-55.87	139.62	134.82	4.80	29.089	
1,000.00	999.95	1,004.24	1,003.89	2.79	2.71	-10.69	135.38	-58.24	138.70	133.19	5.50	25.199	
1,100.00	1,099.95	1,104.43	1,104.04	3.15	3.06	-19.77	133.52	-60.37	137.45	131.24	6.21	22.126	
1,200.00	1,199.94	1,204.75	1,204.33	3.51	3.41	-31.45	131.80	-61.92	136.15	129.23	6.92	19.670	
1,300.00	1,299.94	1,307.98	1,307.53	3.87	3.77	-53.46	130.18	-60.47	133.78	126.14	7.64	17.519	
1,400.00	1,399.94	1,409.73	1,409.03	4.22	4.13	-57.88	128.71	-53.62	129.23	120.89	8.34	15.491	
1,500.00	1,499.94	1,510.06	1,508.59	4.58	4.49	-51.93	128.54	-41.35	123.99	114.93	9.06	13.691	
1,600.00	1,599.93	1,612.11	1,609.03	4.93	4.87	-21.69	128.20	-23.37	118.32	108.52	9.80	12.079	
1,700.00	1,699.93	1,711.06	1,705.49	5.29	5.27	0.23	126.64	-1.38	113.87	103.30	10.56	10.779	
1,743.25	1,743.18	1,752.70	1,745.73	5.45	5.45	15.76	125.88	9.26	113.26	102.36	10.90	10.389 CC, ES	
1,800.00	1,799.93	1,806.48	1,797.34	5.65	5.70	37.29	124.94	24.35	114.49	103.15	11.34	10.100 SF	
1,900.00	1,899.93	1,898.64	1,884.45	6.01	6.15	52.55	123.43	54.37	124.02	112.00	12.02	10.315	
2,000.00	1,999.90	1,989.44	1,968.97	6.36	6.65	124.36	121.66	87.47	144.23	131.63	12.60	11.443	
2,100.00	2,099.70	2,079.01	2,051.89	6.71	7.18	133.73	119.83	121.28	174.67	161.52	13.15	13.283	
2,200.00	2,199.30	2,170.15	2,136.44	7.06	7.74	140.78	117.83	155.28	211.19	197.44	13.76	15.353	
2,300.00	2,298.85	2,259.38	2,219.36	7.42	8.31	147.12	115.62	188.15	250.55	236.19	14.36	17.454	
2,400.00	2,398.39	2,349.10	2,302.75	7.78	8.89	153.20	113.11	221.15	291.67	276.69	14.98	19.467	
2,500.00	2,497.95	2,438.86	2,386.22	8.08	9.48	158.39	110.33	254.05	333.73	318.14	15.59	21.409	
2,600.00	2,597.52	2,534.34	2,475.30	8.21	10.12	162.65	107.29	288.28	375.77	359.63	16.14	23.283	
2,700.00	2,697.09	2,631.51	2,566.62	8.25	10.69	165.24	104.31	321.34	416.64	400.11	16.53	25.203	
2,800.00	2,796.69	2,726.02	2,655.87	8.30	11.07	169.39	101.82	352.32	456.54	439.81	16.72	27.302	
2,900.00	2,896.32	2,816.58	2,741.55	8.37	11.34	173.29	99.76	381.59	495.95	479.16	16.79	29.547	
3,000.00	2,995.99	2,904.69	2,824.69	8.46	11.63	175.40	98.34	410.72	536.00	519.13	16.87	31.779	
3,100.00	3,095.65	2,999.00	2,913.96	8.56	11.96	177.32	97.05	441.13	575.34	558.32	17.02	33.803	
3,200.00	3,195.34	3,075.49	2,986.12	8.68	12.25	178.95	96.42	466.46	615.55	598.46	17.09	36.015	
3,300.00	3,295.04	3,171.92	3,076.52	8.81	12.66	-178.09	96.47	500.04	657.27	639.94	17.33	37.937	
3,400.00	3,394.76	3,273.46	3,172.30	8.95	13.09	-174.18	96.83	533.72	697.16	679.55	17.61	39.578	
3,500.00	3,494.46	3,364.96	3,258.85	9.11	13.49	-172.08	97.61	563.40	736.60	718.73	17.87	41.219	
3,600.00	3,594.16	3,485.52	3,373.71	9.28	14.02	-164.99	99.29	599.94	773.94	755.62	18.31	42.264	
3,700.00	3,693.91	3,550.08	3,435.17	9.46	14.30	-155.86	100.49	619.68	810.77	792.31	18.46	43.911	
3,800.00	3,793.72	3,619.28	3,500.33	9.64	14.64	-149.45	101.80	642.92	849.40	830.75	18.65	45.537	
3,900.00	3,893.71	3,868.13	3,735.55	9.82	15.59	-121.10	145.66	701.98	876.65	856.93	19.72	44.451	
4,000.00	3,993.71	4,504.49	4,197.38	10.00	15.48	-153.32	503.79	537.90	872.89	851.42	21.47	40.655	
4,100.00	4,093.56	4,591.38	4,234.17	10.18	15.34	-93.99	559.94	482.85	853.45	830.65	22.81	37.418	
4,200.00	4,191.71	4,613.09	4,241.55	10.34	15.31	-92.89	574.25	468.30	843.50	819.89	23.61	35.727	
4,247.97	4,237.60	4,614.43	4,241.98	10.41	15.31	-90.29	575.15	467.39	842.44	818.59	23.85	35.323	
4,300.00	4,285.99	4,612.33	4,241.31	10.50	15.31	-88.18	573.75	468.81	844.07	820.05	24.02	35.140	
4,400.00	4,374.16	4,599.41	4,236.99	10.66	15.33	-85.04	565.22	477.49	853.21	829.05	24.16	35.317	
4,500.00	4,454.00	4,574.00	4,227.74	10.84	15.37	-83.28	548.56	494.30	872.48	848.35	24.13	36.163	
4,600.00	4,522.75	4,543.00	4,215.09	11.34	15.42	-80.09	528.42	514.18	902.92	878.75	24.17	37.357	
4,700.00	4,577.65	4,506.46	4,198.33	12.09	15.48	-74.03	505.05	536.71	940.27	915.89	24.38	38.567	
4,800.00	4,621.40	4,441.67	4,166.92	13.11	15.59	-68.12	463.76	575.52	979.99	955.39	24.61	39.829	
4,900.00	4,652.61	4,396.63	4,144.61	14.41	15.68	-62.73	434.99	602.04	1,018.12	992.85	25.27	40.287	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 728H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2695-MWD, 13517-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,666.66	4,336.12	4,110.44	15.93	15.80	-57.02	397.43	634.87	1,053.52	1,027.44	26.08	40.398	
5,100.00	4,669.58	4,262.49	4,063.28	17.61	15.90	-53.30	350.87	666.81	1,086.88	1,059.99	26.88	40.431	
5,200.00	4,666.89	4,215.37	4,030.09	19.43	15.94	-51.51	321.40	682.60	1,120.68	1,092.79	27.89	40.182	
5,300.00	4,664.19	4,166.68	3,993.35	21.34	15.96	-49.69	291.80	694.56	1,158.71	1,129.97	28.73	40.325	
5,400.00	4,663.31	4,133.00	3,967.03	23.31	15.96	-47.75	271.65	700.48	1,204.44	1,174.87	29.57	40.734	
5,500.00	4,660.98	4,110.94	3,949.29	25.34	15.94	-47.01	258.85	703.32	1,254.68	1,224.28	30.40	41.278	
5,600.00	4,659.81	4,091.17	3,933.09	27.41	15.93	-46.49	247.71	705.32	1,310.10	1,279.01	31.09	42.139	
5,700.00	4,661.14	4,070.00	3,915.40	29.50	15.91	-45.73	236.19	706.95	1,372.32	1,340.69	31.63	43.393	



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 729H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2701-MWD, 12316-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	3.04	3.04	0.00	0.01	-49.99	90.93	-108.33	141.44				
100.00	100.00	104.28	104.27	0.13	0.18	-39.60	90.41	-108.15	140.85	140.54	0.31	451.502	
200.00	200.00	205.48	205.47	0.31	0.35	-40.06	88.91	-107.64	139.15	138.48	0.66	209.680	
300.00	300.00	306.62	306.57	0.49	0.53	-40.86	86.43	-106.78	136.35	135.33	1.02	134.195	
400.00	399.99	407.67	407.55	0.67	0.70	-42.02	82.98	-105.58	132.49	131.12	1.37	96.711	
500.00	499.98	507.81	507.59	1.00	1.02	-48.35	78.79	-104.20	127.81	125.80	2.02	63.379	
600.00	599.96	607.42	607.11	1.36	1.39	-49.46	74.70	-102.76	123.09	120.36	2.74	45.002	
700.00	699.95	706.68	706.29	1.72	1.75	-53.43	70.72	-101.74	119.24	115.78	3.45	34.535	
800.00	799.95	806.07	805.61	2.08	2.11	-54.23	67.17	-100.90	116.15	111.98	4.17	27.846	
900.00	899.95	905.44	904.93	2.44	2.47	-47.36	64.08	-100.42	113.77	108.88	4.89	23.272	
1,000.00	999.95	1,004.73	1,004.19	2.79	2.83	-48.45	61.49	-100.15	111.99	106.38	5.61	19.979	
1,100.00	1,099.95	1,105.91	1,105.32	3.15	3.20	-57.81	58.71	-100.09	110.41	104.08	6.33	17.443	
1,200.00	1,199.94	1,209.65	1,208.87	3.51	3.58	-71.27	52.72	-98.64	106.47	99.40	7.07	15.064	
1,300.00	1,299.94	1,311.81	1,310.45	3.87	3.98	-98.32	42.45	-95.32	99.71	91.90	7.81	12.768	
1,400.00	1,399.94	1,412.38	1,410.01	4.22	4.38	-112.46	28.92	-90.99	92.19	83.62	8.57	10.759	
1,500.00	1,499.94	1,511.76	1,507.90	4.58	4.80	-122.00	12.57	-85.89	85.69	76.33	9.36	9.157	
1,600.00	1,599.93	1,609.93	1,603.84	4.93	5.24	-114.11	-7.30	-79.90	82.31	72.13	10.18	8.089	
1,611.67	1,611.60	1,621.18	1,614.77	4.98	5.30	-114.85	-9.85	-79.15	82.26	71.98	10.27	8.008 CC, ES	
1,700.00	1,699.93	1,705.45	1,696.18	5.29	5.70	-119.76	-30.82	-73.42	85.69	74.74	10.94	7.830 SF	
1,800.00	1,799.93	1,800.29	1,787.07	5.65	6.19	-111.55	-57.05	-66.62	98.08	86.48	11.60	8.455	
1,900.00	1,899.93	1,895.49	1,878.05	6.01	6.70	-122.50	-84.23	-59.82	117.24	105.02	12.22	9.597	
2,000.00	1,999.90	1,991.22	1,969.62	6.36	7.21	-72.41	-111.39	-53.22	139.37	126.54	12.84	10.858	
2,100.00	2,099.70	2,087.08	2,061.42	6.71	7.74	-80.95	-138.18	-46.66	162.82	149.37	13.46	12.100	
2,200.00	2,199.30	2,183.86	2,154.38	7.06	8.27	-88.81	-164.27	-39.99	187.62	173.50	14.12	13.291	
2,300.00	2,298.85	2,278.30	2,245.25	7.42	8.78	-93.67	-189.16	-33.66	213.84	199.08	14.76	14.484	
2,400.00	2,398.39	2,369.32	2,332.53	7.78	9.29	-96.11	-214.21	-27.39	242.36	226.98	15.38	15.756	
2,500.00	2,497.95	2,465.41	2,424.58	8.08	9.84	-97.65	-241.06	-21.03	271.93	255.89	16.04	16.952	
2,600.00	2,597.52	2,564.40	2,519.72	8.21	10.39	-98.87	-267.58	-14.39	300.72	284.14	16.59	18.132	
2,700.00	2,697.09	2,664.59	2,616.37	8.25	10.81	-100.61	-293.23	-8.15	328.60	311.70	16.90	19.447	
2,800.00	2,796.69	2,759.83	2,708.52	8.30	11.08	-99.83	-316.60	-2.46	355.48	338.45	17.03	20.878	
2,900.00	2,896.32	2,847.07	2,792.62	8.37	11.30	-98.66	-338.91	3.79	383.44	366.38	17.06	22.479	
3,000.00	2,995.99	2,932.34	2,874.18	8.46	11.55	-98.80	-362.59	11.37	413.84	396.73	17.11	24.187	
3,100.00	3,095.65	3,020.17	2,957.63	8.56	11.84	-98.99	-388.30	20.80	446.20	428.98	17.22	25.919	
3,200.00	3,195.34	3,120.55	3,053.03	8.68	12.19	-99.32	-417.38	32.18	478.56	461.10	17.46	27.413	
3,300.00	3,295.04	3,218.21	3,146.28	8.81	12.55	-98.00	-444.61	42.22	509.44	491.74	17.70	28.775	
3,400.00	3,394.76	3,309.69	3,233.32	8.95	12.90	-95.28	-471.32	51.06	541.11	523.17	17.94	30.170	
3,500.00	3,494.46	3,419.93	3,339.16	9.11	13.32	-94.21	-500.61	60.64	569.50	551.18	18.32	31.084	
3,600.00	3,594.16	3,505.08	3,420.60	9.28	13.66	-88.05	-524.38	67.99	599.07	580.50	18.57	32.266	
3,700.00	3,693.91	3,981.94	3,875.82	9.46	14.37	-73.44	-562.41	-14.61	610.67	592.02	18.65	32.749	
3,800.00	3,793.72	4,379.32	4,160.54	9.64	13.67	-42.48	-407.81	-229.11	555.70	538.84	16.86	32.962	
3,900.00	3,893.71	4,449.33	4,194.12	9.82	13.63	-2.64	-367.98	-275.85	492.56	474.38	18.18	27.097	
4,000.00	3,993.71	4,600.02	4,238.99	10.00	14.18	13.30	-268.31	-378.54	430.41	410.06	20.35	21.150	
4,100.00	4,093.56	4,615.60	4,241.09	10.18	14.31	85.03	-257.15	-389.21	381.99	359.42	22.57	16.922	
4,200.00	4,191.71	4,607.83	4,240.09	10.34	14.25	89.52	-262.72	-383.90	355.19	331.06	24.13	14.722	
4,243.87	4,233.71	4,600.19	4,239.02	10.41	14.18	91.15	-268.19	-378.66	352.24	327.83	24.41	14.431	
4,300.00	4,285.99	4,587.40	4,237.02	10.50	14.08	90.78	-277.29	-369.90	356.55	332.20	24.35	14.644	
4,400.00	4,374.16	4,562.02	4,232.18	10.66	13.91	85.61	-295.15	-352.53	385.84	362.39	23.45	16.454	
4,500.00	4,454.00	4,532.16	4,224.60	10.84	13.76	74.92	-315.68	-332.23	433.03	410.82	22.21	19.495	
4,600.00	4,522.75	4,497.45	4,213.41	11.34	13.67	63.25	-338.46	-308.56	487.33	466.17	21.17	23.024	
4,700.00	4,577.65	4,460.96	4,199.17	12.09	13.63	53.55	-361.07	-283.73	544.10	523.54	20.56	26.463	
4,800.00	4,621.40	4,422.00	4,181.40	13.11	13.63	46.88	-383.75	-257.51	603.68	583.34	20.34	29.685	
4,900.00	4,652.61	4,360.26	4,151.24	14.41	13.70	38.67	-418.59	-216.42	662.64	642.47	20.17	32.850	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 729H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2701-MWD, 12316-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,666.66	4,312.03	4,126.83	15.93	13.78	33.21	-445.23	-184.49	714.30	693.75	20.55	34.764	
5,100.00	4,669.58	4,274.93	4,105.81	17.61	13.85	30.54	-464.19	-160.52	763.53	742.33	21.20	36.013	
5,200.00	4,666.89	4,233.00	4,079.42	19.43	13.94	28.34	-483.82	-134.54	815.27	793.45	21.82	37.368	
5,300.00	4,664.19	4,202.00	4,058.18	21.34	14.00	28.09	-497.04	-116.24	873.08	850.59	22.49	38.820	
5,400.00	4,663.31	4,184.45	4,045.56	23.31	14.03	28.14	-504.04	-106.26	935.94	912.79	23.15	40.430	
5,500.00	4,660.98	4,170.00	4,034.87	25.34	14.06	26.76	-509.57	-98.26	1,002.31	978.58	23.73	42.230	
5,600.00	4,659.81	4,139.00	4,011.00	27.41	14.12	27.67	-520.64	-81.87	1,073.21	1,049.14	24.07	44.590	
5,700.00	4,661.14	4,119.98	3,995.78	29.50	14.16	26.87	-526.92	-72.36	1,148.42	1,124.02	24.40	47.068	
5,800.00	4,661.23	4,107.00	3,985.19	31.63	14.18	25.68	-531.01	-66.07	1,225.76	1,201.03	24.73	49.571	
5,900.00	4,658.93	4,076.00	3,959.21	33.78	14.23	22.66	-540.08	-51.81	1,304.39	1,279.50	24.89	52.401	
6,000.00	4,657.08	4,076.00	3,959.21	35.94	14.23	26.71	-540.08	-51.81	1,385.03	1,359.81	25.22	54.918	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 760H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2696-MWD, 13379-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	2.98	2.98	0.00	0.01	-41.78	104.41	-93.30	140.02				
100.00	100.00	102.40	102.40	0.13	0.17	-31.17	104.72	-93.28	140.11	139.80	0.31	456.668	
200.00	200.00	201.81	201.80	0.31	0.34	-31.01	105.63	-93.21	140.34	139.69	0.65	214.859	
300.00	300.00	301.22	301.20	0.49	0.51	-30.73	107.14	-93.10	140.73	139.73	1.00	140.802	
400.00	399.99	400.61	400.57	0.67	0.67	-30.35	109.24	-92.95	141.28	139.93	1.35	104.966	
500.00	499.98	500.18	500.10	1.00	0.97	-34.59	111.96	-92.68	141.89	139.92	1.98	71.821	
600.00	599.96	600.43	600.31	1.36	1.34	-33.53	114.78	-92.42	142.38	139.69	2.69	52.836	
700.00	699.95	702.08	701.94	1.72	1.70	-35.37	116.99	-92.14	142.82	139.40	3.42	41.807	
800.00	799.95	804.88	804.73	2.08	2.06	-34.33	117.28	-90.93	141.58	137.45	4.13	34.276	
900.00	899.95	904.47	904.31	2.44	2.39	-25.86	116.66	-89.58	139.68	134.86	4.83	28.928	
1,000.00	999.95	1,004.04	1,003.88	2.79	2.74	-25.71	116.29	-89.05	138.68	133.15	5.53	25.084	
1,100.00	1,099.95	1,103.82	1,103.65	3.15	3.08	-33.56	115.99	-88.33	137.58	131.35	6.23	22.067	
1,200.00	1,199.94	1,203.63	1,203.46	3.51	3.43	-44.31	115.77	-87.96	136.81	129.87	6.94	19.712	
1,300.00	1,299.94	1,303.50	1,303.33	3.87	3.78	-66.64	115.43	-87.84	136.21	128.56	7.64	17.823	
1,400.00	1,399.94	1,408.02	1,407.83	4.22	4.14	-73.29	114.39	-86.28	134.29	125.93	8.36	16.068	
1,500.00	1,499.94	1,516.84	1,516.30	4.58	4.53	-71.17	110.42	-78.99	126.95	117.88	9.06	14.005	
1,600.00	1,599.93	1,622.97	1,621.27	4.93	4.92	-46.41	102.41	-65.63	112.92	103.18	9.74	11.593	
1,700.00	1,699.93	1,724.35	1,720.76	5.29	5.32	-31.02	91.91	-49.28	94.89	84.47	10.42	9.104	
1,800.00	1,799.93	1,823.85	1,817.79	5.65	5.72	0.48	80.29	-30.61	75.18	64.05	11.13	6.756	
1,900.00	1,899.93	1,922.32	1,913.15	6.01	6.16	15.88	67.06	-9.95	55.24	43.34	11.90	4.640	
2,000.00	1,999.90	2,018.71	2,006.00	6.36	6.60	104.80	52.16	11.26	40.61	27.70	12.91	3.146	
2,026.67	2,026.54	2,044.07	2,030.42	6.45	6.72	115.45	48.20	16.81	39.71	26.54	13.17	3.016 CC, ES, SF	
2,100.00	2,099.70	2,113.54	2,097.41	6.71	7.06	143.91	37.55	31.81	46.73	33.12	13.61	3.432	
2,200.00	2,199.30	2,207.41	2,188.15	7.06	7.51	165.70	23.68	51.44	70.78	56.71	14.07	5.030	
2,300.00	2,298.85	2,299.83	2,277.08	7.42	7.98	177.15	9.47	72.21	102.39	87.79	14.61	7.010	
2,400.00	2,398.39	2,393.79	2,367.34	7.78	8.47	-175.14	-5.52	93.55	136.31	121.05	15.25	8.937	
2,500.00	2,497.95	2,490.07	2,460.11	8.08	8.97	-169.73	-20.59	114.42	169.83	153.90	15.92	10.665	
2,600.00	2,597.52	2,587.96	2,554.94	8.21	9.47	-165.98	-34.94	134.08	201.82	185.35	16.47	12.256	
2,700.00	2,697.09	2,685.59	2,649.87	8.25	9.80	-164.08	-48.32	152.51	232.52	215.81	16.72	13.910	
2,800.00	2,796.69	2,775.92	2,737.65	8.30	9.98	-160.46	-61.02	169.63	263.20	246.46	16.74	15.719	
2,900.00	2,896.32	2,862.29	2,820.97	8.37	10.17	-156.75	-74.99	187.57	295.84	279.09	16.75	17.664	
3,000.00	2,995.99	2,958.79	2,913.62	8.46	10.41	-154.52	-91.67	208.78	329.65	312.76	16.89	19.518	
3,100.00	3,095.65	3,049.70	3,001.17	8.56	10.66	-152.65	-106.72	228.11	362.50	345.49	17.01	21.307	
3,200.00	3,195.34	3,139.84	3,087.39	8.68	10.93	-150.82	-123.22	248.54	397.05	379.89	17.16	23.134	
3,300.00	3,295.04	3,234.69	3,178.19	8.81	11.25	-147.73	-140.49	269.84	431.10	413.72	17.39	24.797	
3,400.00	3,394.76	3,347.02	3,286.04	8.95	11.63	-143.62	-160.28	294.16	464.04	446.27	17.76	26.124	
3,500.00	3,494.46	3,437.91	3,374.20	9.11	11.94	-141.52	-173.90	311.53	493.46	475.45	18.01	27.398	
3,600.00	3,594.16	3,518.82	3,452.08	9.28	12.24	-134.54	-186.87	329.25	525.58	507.36	18.21	28.854	
3,700.00	3,693.91	3,600.88	3,530.56	9.46	12.57	-125.44	-200.57	348.94	558.53	540.08	18.45	30.271	
3,800.00	3,793.72	3,719.50	3,643.64	9.64	13.07	-119.17	-220.71	378.48	591.78	572.81	18.97	31.197	
3,900.00	3,893.71	3,918.15	3,839.03	9.82	13.68	-88.13	-238.31	408.05	608.87	589.08	19.78	30.777	
4,000.00	3,993.71	4,061.00	3,981.64	10.00	13.95	-93.70	-241.32	415.11	613.93	593.72	20.21	30.376	
4,100.00	4,093.56	4,113.80	4,232.49	10.18	14.10	-30.00	-223.59	402.66	607.25	587.05	20.20	30.055	
4,200.00	4,191.71	5,046.69	4,666.33	10.34	15.21	-117.21	131.24	35.85	521.99	506.13	15.86	32.922	
4,300.00	4,285.99	5,018.38	4,664.84	10.50	14.95	-120.64	112.02	56.57	437.90	421.00	16.90	25.914	
4,400.00	4,374.16	4,970.62	4,662.26	10.66	14.53	-120.39	79.46	91.43	362.25	344.02	18.22	19.878	
4,500.00	4,454.00	4,860.74	4,640.68	10.84	13.91	-108.16	6.00	169.69	295.26	274.94	20.32	14.531	
4,600.00	4,522.75	4,800.75	4,616.27	11.34	13.74	-101.86	-31.61	209.48	246.07	222.74	23.34	10.544	
4,700.00	4,577.65	4,751.67	4,591.99	12.09	13.67	-92.88	-61.02	240.36	228.34	202.70	25.64	8.904	
4,703.53	4,579.33	4,749.96	4,591.09	12.13	13.67	-92.49	-62.03	241.42	228.32	202.63	25.69	8.886	
4,800.00	4,621.40	4,707.80	4,567.60	13.11	13.66	-82.12	-85.95	266.94	243.21	217.27	25.94	9.376	
4,900.00	4,652.61	4,668.00	4,542.03	14.41	13.68	-70.36	-106.45	289.50	283.06	258.02	25.04	11.306	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 760H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2696-MWD, 13379-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,666.66	4,636.00	4,519.32	15.93	13.72	-59.08	-121.28	306.46	336.88	312.52	24.36	13.828		
5,100.00	4,669.58	4,594.24	4,487.01	17.61	13.77	-51.30	-138.51	326.50	399.68	375.80	23.88	16.740		
5,200.00	4,666.89	4,555.46	4,454.82	19.43	13.83	-46.96	-153.42	342.11	467.85	444.29	23.56	19.857		
5,300.00	4,664.19	4,523.76	4,427.37	21.34	13.87	-43.84	-165.14	352.79	541.67	518.35	23.32	23.229		
5,400.00	4,663.31	4,496.23	4,402.87	23.31	13.91	-39.62	-174.74	360.89	622.30	599.13	23.17	26.854		
5,500.00	4,660.98	4,468.75	4,378.06	25.34	13.94	-37.80	-183.85	368.39	705.61	682.54	23.07	30.581		
5,600.00	4,659.81	4,447.00	4,358.19	27.41	13.97	-36.12	-190.64	374.06	791.68	768.66	23.02	34.384		
5,700.00	4,661.14	4,424.09	4,337.07	29.50	14.00	-34.67	-197.40	379.80	881.00	858.02	22.99	38.329		
5,800.00	4,661.23	4,405.95	4,320.21	31.63	14.02	-31.66	-202.49	384.14	971.13	948.15	22.98	42.255		
5,900.00	4,658.93	4,384.00	4,299.61	33.78	14.05	-31.03	-208.23	389.12	1,061.49	1,038.52	22.97	46.215		
6,000.00	4,657.08	4,374.90	4,291.02	35.94	14.05	-27.15	-210.47	391.09	1,153.27	1,130.24	23.03	50.081		
6,100.00	4,655.96	4,353.00	4,270.20	38.10	14.08	-24.79	-215.57	395.58	1,246.64	1,223.60	23.04	54.100		
6,200.00	4,653.59	4,353.00	4,270.20	40.27	14.08	-25.71	-215.57	395.58	1,340.15	1,317.02	23.13	57.940		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 761H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2703-MWD, 12833-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	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	-57.70	77.81	-123.08	145.61				
100.00	100.00	103.08	103.08	0.13	0.17	-47.03	78.14	-122.84	145.48	145.17	0.31	470.946	
200.00	200.00	203.15	203.14	0.31	0.34	-46.71	79.09	-122.14	145.08	144.42	0.66	220.624	
300.00	300.00	303.20	303.18	0.49	0.51	-46.17	80.65	-120.99	144.42	143.41	1.01	143.526	
400.00	399.99	403.23	403.17	0.67	0.68	-45.41	82.82	-119.39	143.53	142.17	1.35	105.934	
500.00	499.98	503.33	503.21	1.00	0.99	-49.24	85.50	-117.37	142.35	140.36	1.99	71.429	
600.00	599.96	603.07	602.93	1.36	1.35	-48.26	87.20	-116.10	141.10	138.40	2.71	52.077	
700.00	699.95	703.19	703.04	1.72	1.71	-50.54	87.86	-115.69	140.31	136.88	3.42	40.972	
800.00	799.95	802.94	802.79	2.08	2.05	-49.89	88.01	-115.35	139.58	135.45	4.13	33.790	
826.63	826.58	829.08	828.93	2.17	2.14	-48.36	87.99	-115.46	139.53	135.21	4.32	32.335	
900.00	899.95	902.24	902.08	2.44	2.39	-42.07	87.69	-116.28	139.72	134.90	4.82	28.973	
1,000.00	999.95	1,003.36	1,003.17	2.79	2.72	-43.04	85.83	-117.89	139.70	134.18	5.52	25.323	
1,100.00	1,099.95	1,105.62	1,105.17	3.15	3.07	-53.95	79.50	-120.85	138.57	132.36	6.22	22.280	
1,200.00	1,199.94	1,205.69	1,204.45	3.51	3.42	-69.97	67.82	-125.24	136.78	129.85	6.93	19.746	
1,300.00	1,299.94	1,306.01	1,303.66	3.87	3.78	-98.55	53.67	-130.06	135.94	128.29	7.65	17.768	
1,371.04	1,370.98	1,377.77	1,374.31	4.12	4.06	-109.17	41.54	-133.22	135.78	127.60	8.18	16.598 CC	
1,400.00	1,399.94	1,406.89	1,402.89	4.22	4.18	-113.06	36.05	-134.35	135.84	127.44	8.40	16.178 ES	
1,500.00	1,499.94	1,503.76	1,497.41	4.58	4.58	-121.06	15.28	-138.27	138.08	128.93	9.14	15.100	
1,600.00	1,599.93	1,598.50	1,588.77	4.93	5.01	-108.89	-9.34	-142.85	145.20	135.32	9.88	14.697 SF	
1,700.00	1,699.93	1,689.27	1,674.87	5.29	5.46	-107.81	-37.56	-148.07	158.92	148.36	10.55	15.060	
1,800.00	1,799.93	1,783.76	1,763.67	5.65	5.97	-93.19	-69.34	-153.98	179.02	167.78	11.24	15.933	
1,900.00	1,899.93	1,875.70	1,850.01	6.01	6.49	-99.34	-100.38	-159.82	203.12	191.25	11.87	17.107	
2,000.00	1,999.90	1,970.05	1,938.46	6.36	7.04	-46.40	-132.60	-166.02	229.00	216.47	12.53	18.277	
2,100.00	2,099.70	2,065.15	2,027.80	6.71	7.60	-52.67	-164.60	-172.25	254.02	240.84	13.18	19.270	
2,200.00	2,199.30	2,158.96	2,116.06	7.06	8.17	-58.70	-195.78	-178.49	279.47	265.65	13.82	20.218	
2,300.00	2,298.85	2,248.78	2,200.33	7.42	8.72	-62.54	-226.28	-184.48	307.09	292.67	14.42	21.295	
2,400.00	2,398.39	2,341.04	2,286.55	7.78	9.31	-64.69	-258.54	-190.63	336.85	321.78	15.07	22.350	
2,500.00	2,497.95	2,437.10	2,376.38	8.08	9.92	-66.18	-291.96	-196.97	367.36	351.64	15.73	23.358	
2,600.00	2,597.52	2,539.58	2,472.75	8.21	10.57	-67.48	-326.19	-203.45	397.13	380.82	16.31	24.350	
2,700.00	2,697.09	2,632.15	2,560.10	8.25	11.15	-69.19	-356.38	-208.85	426.45	409.76	16.69	25.557	
2,800.00	2,796.69	2,721.44	2,644.20	8.30	11.55	-68.57	-385.99	-213.75	456.61	439.77	16.84	27.111	
2,900.00	2,896.32	2,797.00	2,714.58	8.37	11.80	-67.38	-413.07	-218.34	489.68	472.91	16.77	29.202	
3,000.00	2,995.99	2,885.13	2,795.88	8.46	12.15	-67.63	-446.65	-223.73	525.16	508.32	16.84	31.185	
3,100.00	3,095.65	2,973.79	2,877.41	8.56	12.53	-67.79	-481.14	-228.74	561.43	544.47	16.96	33.109	
3,200.00	3,195.34	3,063.00	2,959.21	8.68	12.94	-67.90	-516.36	-233.81	598.50	581.39	17.11	34.973	
3,300.00	3,295.04	3,155.37	3,043.75	8.81	13.39	-66.69	-553.34	-237.89	635.91	618.58	17.33	36.695	
3,400.00	3,394.76	3,252.39	3,132.68	8.95	13.88	-64.36	-591.98	-241.33	672.94	655.32	17.61	38.208	
3,500.00	3,494.46	3,351.19	3,223.57	9.11	14.39	-63.48	-630.58	-244.39	708.81	690.88	17.93	39.521	
3,600.00	3,594.16	3,458.54	3,322.84	9.28	14.95	-57.84	-671.33	-247.53	743.50	725.16	18.34	40.538	
3,700.00	3,693.91	3,569.76	3,426.62	9.46	15.52	-49.82	-711.20	-250.58	775.38	756.60	18.79	41.277	
3,800.00	3,793.72	3,650.74	3,502.27	9.64	15.95	-44.17	-739.95	-253.21	807.25	788.19	19.06	42.361	
3,900.00	3,893.71	3,750.65	3,595.34	9.82	16.49	-13.61	-776.04	-257.47	842.65	823.19	19.46	43.292	
4,000.00	3,993.71	3,870.99	3,708.32	10.00	17.13	-19.21	-817.26	-261.64	876.54	856.54	20.00	43.820	
4,100.00	4,093.56	3,966.63	3,798.61	10.18	17.63	45.36	-848.62	-264.80	906.50	886.12	20.39	44.466	
4,200.00	4,191.71	4,060.57	3,887.21	10.34	18.13	48.17	-879.67	-268.39	927.62	906.88	20.74	44.726	
4,300.00	4,285.99	4,183.74	4,004.06	10.50	18.76	53.91	-917.89	-274.61	938.90	917.63	21.28	44.130	
4,400.00	4,374.16	4,599.53	4,381.04	10.66	19.67	74.20	-922.28	-428.94	923.21	900.74	22.47	41.080	
4,500.00	4,454.00	4,638.60	4,411.33	10.84	19.67	76.21	-912.41	-451.54	907.60	884.46	23.14	39.215	
4,600.00	4,522.75	4,646.44	4,417.19	11.34	19.67	75.95	-910.25	-456.28	894.83	870.82	24.02	37.260	
4,700.00	4,577.65	4,636.34	4,409.62	12.09	19.67	76.09	-913.02	-450.18	887.02	861.87	25.14	35.282	
4,742.80	4,597.14	4,629.11	4,404.13	12.52	19.67	75.78	-914.94	-445.89	886.18	860.45	25.74	34.434	
4,800.00	4,621.40	4,619.37	4,396.64	13.11	19.67	75.13	-917.45	-440.21	887.80	861.23	26.56	33.421	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 761H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2703-MWD, 12833-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,652.61	4,597.60	4,379.50	14.41	19.67	73.46	-922.73	-427.87	897.71	869.45	28.26	31.767		
5,000.00	4,666.66	4,568.56	4,355.92	15.93	19.66	70.16	-929.14	-412.17	913.28	883.16	30.12	30.320		
5,100.00	4,669.58	4,533.99	4,326.91	17.61	19.65	67.42	-935.66	-394.53	933.51	901.52	31.99	29.181		
5,200.00	4,666.89	4,499.55	4,297.23	19.43	19.63	65.14	-940.88	-377.89	960.92	927.14	33.78	28.447		
5,300.00	4,664.19	4,472.27	4,273.21	21.34	19.61	64.14	-944.16	-365.38	997.39	961.97	35.43	28.155		
5,400.00	4,663.31	4,456.00	4,258.66	23.31	19.59	63.33	-945.72	-358.27	1,039.95	1,003.04	36.91	28.175		
5,500.00	4,660.98	4,425.00	4,230.53	25.34	19.55	61.15	-947.82	-345.42	1,088.56	1,050.58	37.98	28.662		
5,600.00	4,659.81	4,410.82	4,217.53	27.41	19.53	61.87	-948.41	-339.80	1,144.08	1,105.10	38.98	29.351		
5,700.00	4,661.14	4,393.00	4,201.13	29.50	19.50	60.90	-948.87	-332.84	1,204.62	1,164.94	39.68	30.358		
5,800.00	4,661.23	4,379.34	4,188.50	31.63	19.48	59.09	-948.96	-327.64	1,269.67	1,229.41	40.26	31.539		
5,900.00	4,658.93	4,362.00	4,172.37	33.78	19.44	56.53	-948.65	-321.27	1,338.48	1,297.82	40.65	32.924		
6,000.00	4,657.08	4,362.00	4,172.37	35.94	19.44	59.34	-948.65	-321.27	1,410.26	1,369.13	41.12	34.296		

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



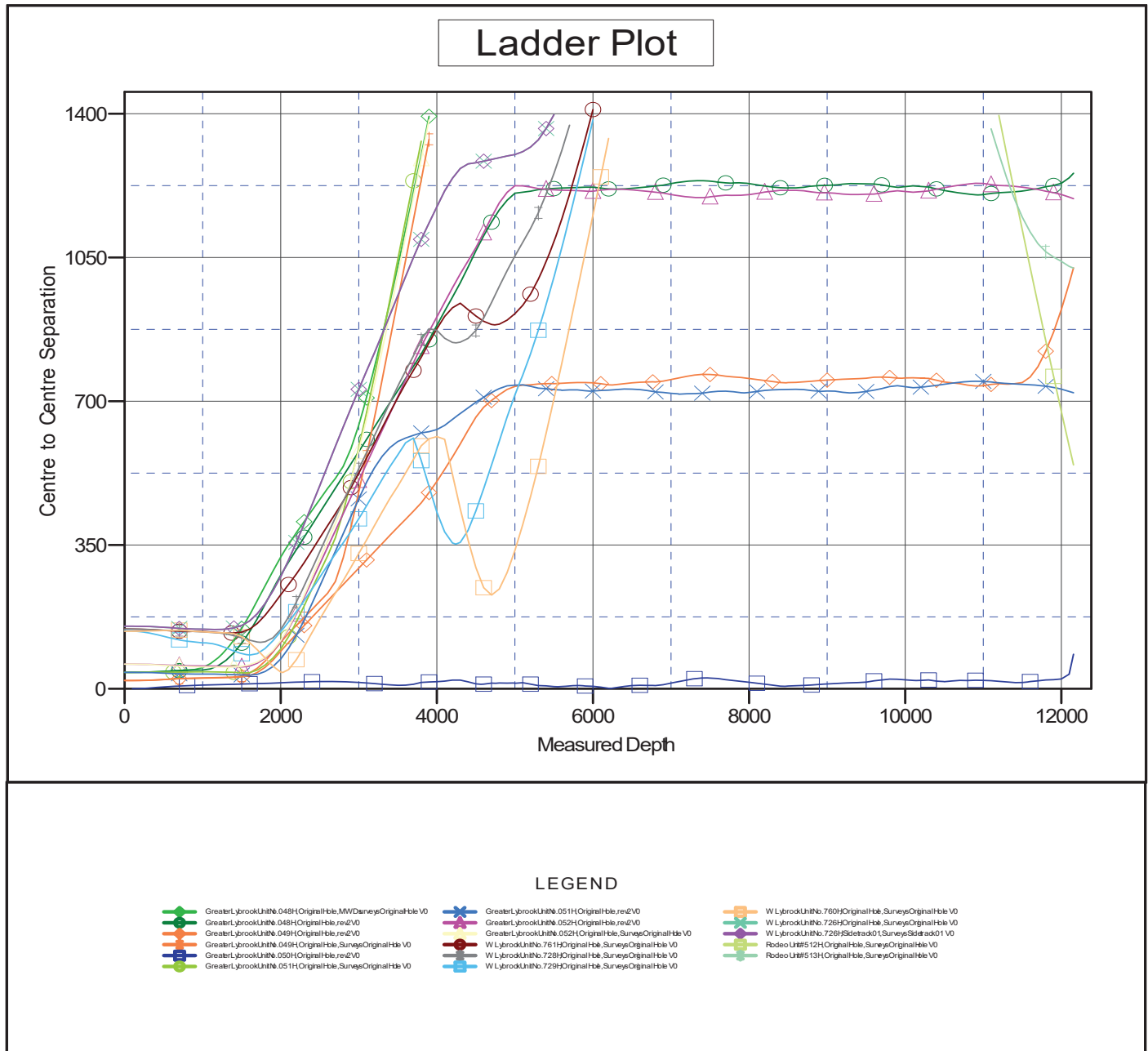
Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6747.25 @ 6772.00ft (Aztec 100)
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.833333333

Coordinates are relative to: Greater Lybrook Unit No. 050H
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.04°



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



Anticollision Report

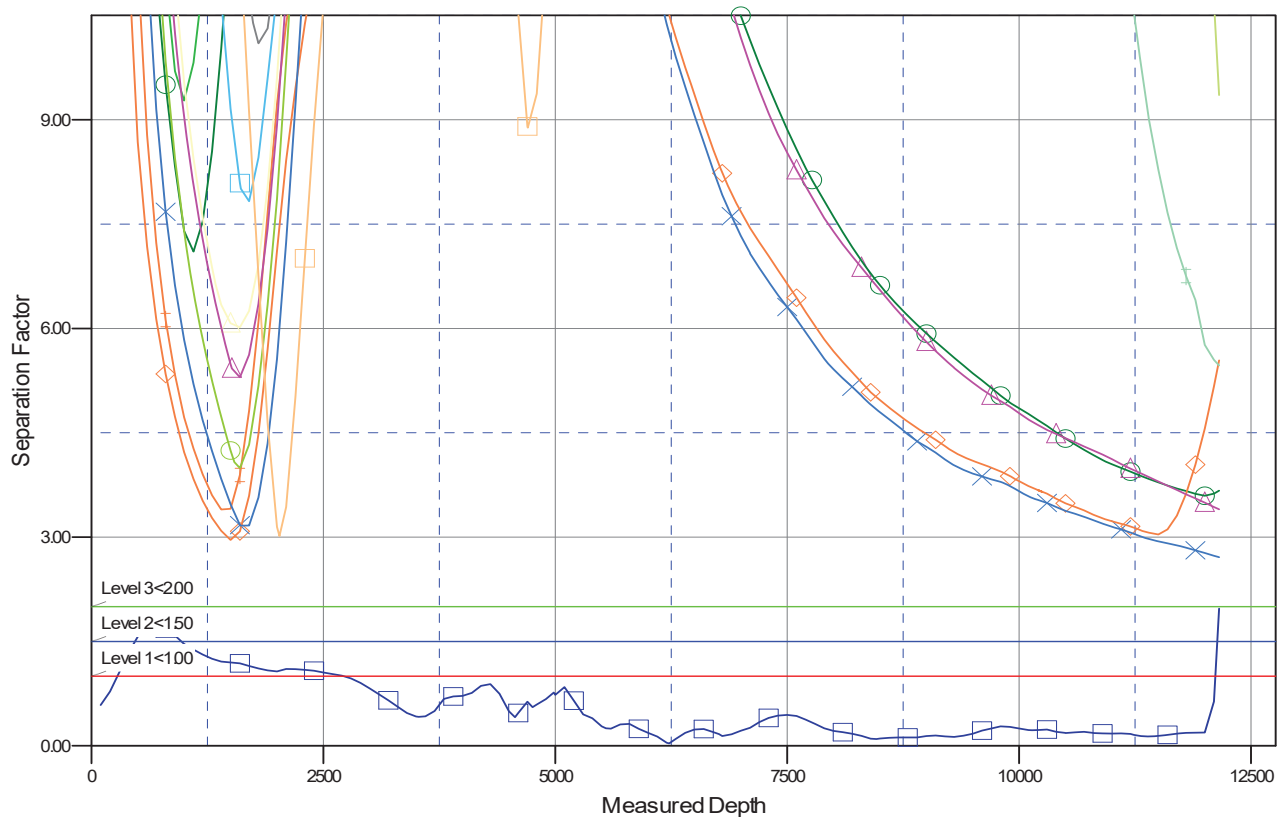


Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 050H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Reference Site:	Greater Lybrook Pad (48,49,50,51 & 52)	MD Reference:	RKB=6747.25 @ 6772.00ft (Aztec 1000)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit No. 050H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	Surveys Original Hole	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6747.25 @ 6772.00ft (Aztec 100)
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.833333333

Coordinates are relative to: Greater Lybrook Unit No. 050H
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.04°

Separation Factor Plot



LEGEND

GreaterLybrookUnitNo.048HOriginalHole,MWDsurveysOriginalHole V0	GreaterLybrookUnitNo.051HOriginalHole,rev2V0	W LybrookUnitNo.760HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.048HOriginalHole,rev2V0	GreaterLybrookUnitNo.052HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.726HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.049HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.761HOriginalHole,SurveysOriginalHole V0	Rodeo Unit#512HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.049HOriginalHole,rev2V0	W LybrookUnitNo.728HOriginalHole,SurveysOriginalHole V0	W LybrookUnitNo.729HOriginalHole,SurveysOriginalHole V0
GreaterLybrookUnitNo.050HOriginalHole,rev2V0		
GreaterLybrookUnitNo.051HOriginalHole,SurveysOriginalHole V0		

WELL NAME: GREATER LYBROOK UNIT 050H

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

API Number: 30-045-38278

AFE Number: DV03080

ER Well Number: NM08275.01

State: New Mexico

County: San Juan

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

Surface Location: 23-23N-09W Sec-Twn- Rng 417 ft FSL 685 ft FWL

BH Location: 25-23N-09W Sec-Twn- Rng 232 ft FSL 711 ft FWL

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

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

QUICK REFERENCE

Sur TD (MD)	370 ft
Int TD (MD)	2,616 ft
KOP (MD)	4,085 ft
KOP (TVD)	4,079 ft
Target (TVD)	4,554 ft
Curve BUR	10 °/100 ft
POE (MD)	4,823 ft
TD (MD)	12,135 ft
Lat Len (ft)	7,255 ft

WELL CONSTRUCTION SUMMARY:								
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	370	13.375	54.5	J-55	BTC	0	370
Intermediate	12.250	2,616	9.625	36.0	J-55	LTC	0	2,616
Production	8.500	12,135	5.50	17.0	P-110	BTC	0	12,135

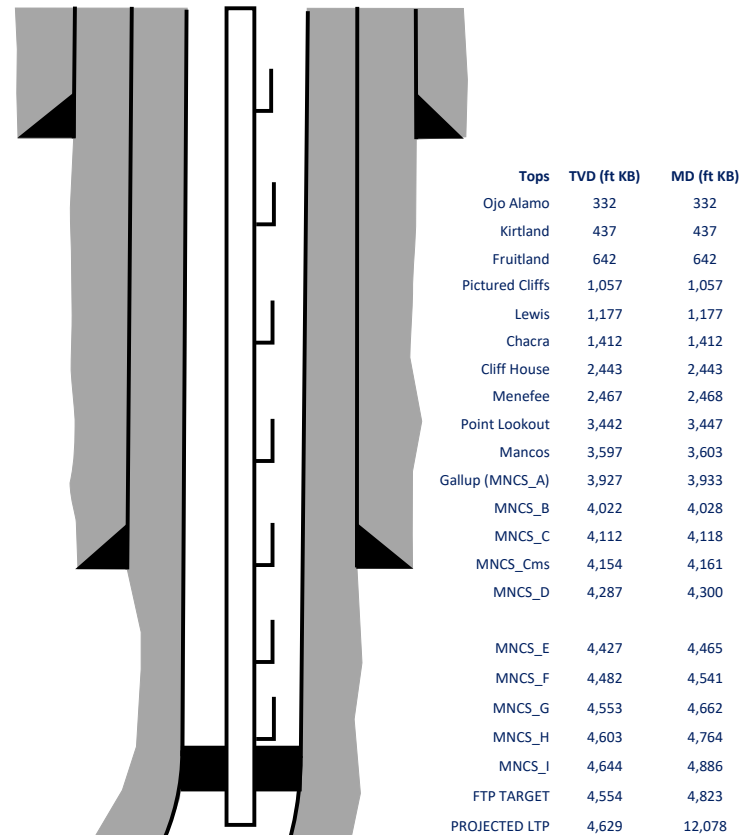
CEMENT PROPERTIES SUMMARY:								
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	% Excess	TOC (ft MD)	Total (sx)	
Surface	TYPE III	14.6	1.39	6.686	100%	0	352	
Inter. (Lead)	10 Type III:P	12.5	2.14	12.05	70%	0	491	
Inter. (Tail)	Type III	14.6	1.38	6.64	20%	2,117	137	
Prod. (Lead)	ASTM type I/I	12.4	2.370	13.4	50%	0	441	
Prod. (Tail)	TegraGuard S	13.3	1.570	7.7	10%	3933	1373	

COMPLETION / PRODUCTION SUMMARY:

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

Flowback: American Cementing Liner & Production Blend

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



Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R9W / SEC 23 / SWSW / 36.206299 / -107.764783	County or Parish/State: SAN JUAN / NM
Well Number: 050H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: NMNM057164	Unit or CA Name: Greater Lybrook	Unit or CA Number: NMNM144419X
US Well Number: 3004538278	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Subsequent Report

Sundry ID: 2747875

Type of Submission: Subsequent Report

Date Sundry Submitted: 08/24/2023

Date Operation Actually Began: 06/05/2023

Type of Action: Hydraulic Fracturing

Time Sundry Submitted: 01:36

Actual Procedure: 6/5/2023 thru 6/8/2023- Pre frac site set up, MIRU, Pressure test 6/13/2023 thru 7/5/2023- 24 hour Frac Ops. 28 total stages, total holes 1176. Perfed interval 4841' - 12053' MD. Perfed w 0.31" holes with ProSurf 170, ProSlick 579, ProChek 172, ProSta 170, and 9,455,000 lbs total proppant 7/18/2023 thru 7/20/2023 – Drilling out operations 7/20/2023 - tubing landed at 4987.7' TVD

SR Attachments

Actual Procedure

5_completion_GLU_050H_20230824133650.pdf

Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R9W / SEC 23 / SWSW / 36.206299 / -107.764783	County or Parish/State: SAN JUAN / NM
Well Number: 050H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: NMNM057164	Unit or CA Name: Greater Lybrook	Unit or CA Number: NMNM144419X
US Well Number: 3004538278	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Operator

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

Operator Electronic Signature: KAYLA WHITE

Signed on: AUG 24, 2023 01:36 PM

Name: ENDURING RESOURCES LLC

Title: Staff Engineer

Street Address: PO BOX 4190

City: PARKER

State: CO

Phone: (720) 768-3575

Email address: KWHITE@CDHCONSULT.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Accepted

Disposition Date: 08/25/2023

Signature: Matthew Kade



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

Well Completion Print

09/06/2023

Operator Name ENDURING RESOURCES LLC	Well Name GREATER LYBROOK UNIT	Well Number 050H	US Well Number 3004538278
SHL SWSW Sec 23 23N 9W	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080755
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Section 1 - General

Well Completion Report Id: 89057**Submission Date:** 08-22-2023**BLM Office:** Farmington Field Office**User:** KAYLA WHITE**Title:** Staff Engineer**Federal/Indian:** INDIAN**Lease Number:** NMNM057164**Lease Acres:****Agreement in place?:** YES**Federal or Indian Agreement:****Agreement Number:****Agreement Name:** Greater Lybrook**Additional Information****Keep this Well Completion Report confidential?:****APD Operator:** ENDURING
RESOURCES LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:****Field Name:** LYBROOK MANCOS W**Well Type:** OIL WELL**Spud Date:** 03-03-2023**Date Total Measured Depth Reached:** 04-27-2023**Drill & Abandon or Ready To Produce:** READY TO**Well Class:** HORIZONTAL

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 050H	US Well Number 3004538278
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080755
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
NACIMIENTO	SANDSTONE, SHALE		6747	0	0	USEABLE WATER	
OJO ALAMO	SANDSTONE, SHALE		6412	335	335	USEABLE WATER	
KIRTLAND	COAL, SHALE		6307	440	440	COAL, NATURAL GAS	
FRUITLAND	COAL		6102	645	645	COAL	
PICTURED CLIFFS	SANDSTONE		5712	1035	1035	NATURAL GAS	
LEWIS	SHALE		5592	1155	1155	NATURAL GAS	
CHACRA	SANDSTONE, SHALE		5332	1415	1415	NATURAL GAS	
CLIFFHOUSE	SANDSTONE		4292	2455	2456	NATURAL GAS	
MENEFEE	COAL, SANDSTONE, SHALE		4272	2475	2476	NATURAL GAS	
POINT LOOKOUT	SANDSTONE, SHALE		3310	3437	3442	NATURAL GAS	
MANCOS	SHALE		3162	3585	3591	NATURAL GAS, OIL	
GALLUP	SHALE		2812	3935	3941	NATURAL GAS, OIL	

Completion and Completed

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 050H	US Well Number 3004538278
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080755
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM105803962	NMNM057164	NEW		POW	07-23-2023	07-23-2023	GALLUP	3982	4800	Y	.31	1134	OPEN

Treatment Data

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

Production Data

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

Test Data

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

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 050H	US Well Number 3004538278
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080755
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	07/27/2023	24	30	543	0	18100	64/64	220		788

Well Location

Survey Type: RECTANGULAR

Survey Number: 15269

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

Wellbore Code	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Acquiduct/Contact
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.206299	-107.764783	6747	N/A	N/A	INDIAN	NOG13121863				417	FSL	685	FWL	23N	9W	23	SW
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.206299	-107.764783	2668	4085	4079	INDIAN	NOG13121863				417	FSL	685	FWL	23N	9W	23	SW
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.205465	-107.764248	2065	5047	4682	FEDERAL	NMNM057164				113	FSL	843	FWL	23N	9W	23	SW
EXIT Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.191353	-107.747008	2100	12099	4647	INDIAN	NMNM036949				253	FSL	713	FWL	23N	9W	25	SW

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 050H	US Well Number 3004538278
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080755
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Acqueduct
BHL Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.191184	-107.746774	2100	12099	4647	INDIAN	NMNM036949				192	FSL	783	FWL	23N	9W	25	SW

Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	371	13.375	54.5	J-55		BUTT		
00	INTERMEDIATE	12.25	0	2617	9.625	36	J-55		LT&C		
00	PRODUCTION	8.5	0	12135	5.5	17	P-110		LT&C		

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 050H	US Well Number 3004538278
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080755
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield (cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		Type III	352	1.39	0					87.1
00	INTERMEDIATE		Type III	491	2.14	0	Type III	137	1.38	1981	220.8
00	PRODUCTION		Type I/II	441	2.37	0	Class G:POZ Blend	1373	1.57	3591	570.1

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		4987		6	L-80		OTHER	EUE

Logs

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

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 050H	US Well Number 3004538278
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X, NMNM105803962 ID 10400080755
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Operator

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

Name: ENDURING RESOURCES LLC

Signed By: KAYLA WHITE

Title: Staff Engineer

Signed on: 08/24/2023

Street Address: PO BOX 4190

City: PARKER

State: CO

Zip: 80134

Phone: (720)768-3575

Email address: KWHITE@CDHCONSULT.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Attachments

List_of_Leases_GLU_050H_20230822084218.pdf

Enduring_Greater_Lybrook_Unit_050H_AC_surveys_final_20230822084219.pdf

Greater_Lybrook_Unit_050H_As_Drilled_C_102_Plat___SIGNED_20230822084221.pdf

GLU_050H_WBD_06022023_20230822084226.pdf

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED

OMB NO. 1004-

0137

Expires: January 31, 2018

5. Lease Serial No.

N0-G-1312-1863

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

NMNM144419A

8. Lease Name and Well No.

Greater Lybrook Unit 050H

9. API Well No.

30-045-38278

10. Field and Pool or Exploratory
Lybrook Mancos W

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

Sec 23 T23N R9W

12. County or Parish

San Juan

13. State

NM

17. Elevations (DF, RKB, RT, GL)*
6772' KB

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

2. Name of Operator

Enduring Resources IV LLC

3. Address

200 Energy Court Farmington NM 87402

3a. Phone No. (Include area code)

505-636-9743

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

At surface

SHL: 417' FSL & 685' FWL, Sec 23 T23N, R9W

BHL: 232' FSL & 711' FWL, Sec 25 T23N, R9W

At top prod. interval reported below At total depth

14. Date Spudded
3/3/2023

15. Date T.D. Reached
4/27/2023

16. Date Completed 7/23/2023
☐ D & A ☒ Ready to Prod.

18. Total Depth: **12,135' MD**
4,644' TVD

19. Plug Back T.D.: **12,052.6' MD**
4,646' TVD

20. Depth Bridge Plug Set: MD
TVD

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

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

Form 3160-4
(June 2015)

UNITED STATES

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

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8", J-55	54.5	0	370.61' MD		352	86	surface	
12-1/4"	9-5/8", J-55	36	0	2616.6' MD		628	220	surface	
8-1/2"	5-1/2", P-110	17	0	12135' MD		1814	569	surface	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8", 6.5#, L-80	4987.7'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
MNCS_A	3927' TVD	4613' TVD	4841' - 12053' MD	.31	1134	

26. Perforation Record

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

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
4841' - 12053' MD	24 hour Frac Ops. 28 total stages, total holes 1176. Perfed interval 4841' - 12053' MD. Perfed w 0.31" holes with ProSurf 170, ProSlick 579, ProChek 172, ProSta 170, and 9,455,000 lbs total proppant

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
7/23/2023	7/27/2023	24 hr	➡	30	543	0			Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	220	788	➡					Producing	

28a. Production - Interval B

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

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

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

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

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

28c. Production - Interval D

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

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

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

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, fl and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

OJAM 332
KRLD 437
FRLD 642
PCCF 1057
CLFH_BASAL 2442
MENF 2467
PNLK 3442
MNCS 3597
Gallup (MNCS_A) 3927

32. Additional remarks (include plugging procedure).

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

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

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

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

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

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

ACKNOWLEDGMENTS

Action 262232

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 262232
	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 262232

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 262232
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

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