

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 30-045-38283	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number #048H

II. ¹⁰ Surface Location

Ul or lot no. M	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 390'	North/South Line SOUTH	Feet from the 655'	East/West line WEST	County SAN JUAN
--------------------	---------------	-----------------	-------------	---------	-----------------------	---------------------------	-----------------------	------------------------	--------------------

¹¹ Bottom Hole Location

UL or lot no. A	Section 35	Township 23N	Range 9W	Lot Idn	Feet from the 553'	North/South line NORTH	Feet from the 188'	East/West line EAST	County SAN JUAN
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 7/24/2023		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 3/6/2023	²² Ready Date 7/24/2023	²³ TD 12191' MD 4606' TVD	²⁴ PBTD 12135.2' MD 4609' TVD	²⁵ Perforations ~ 5030' - 12130' MD ~ 4599'-4609' 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		372.91' MD		354 sx - surface
12-1/4"		9-5/8",36#, J-55		2696.8' MD		656 sx- surface
8-1/2"		5-1/2",17#, P-110		12191' MD		1848 sx- surface
8-1/2"		2-7/8",6.5#, L-80		5,182.17' MD		NA

V. Well Test Data

³¹ Date New Oil 7/28/23	³² Gas Delivery Date 7/24/23	³³ Test Date 7/28/23	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure 283	³⁶ Csg. Pressure 792
³⁷ Choke Size 64"/64"	³⁸ Oil 22	³⁹ Water 0	⁴⁰ Gas 626		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>
Printed name: Kayla White	Title: <i>PETROLEUM SPECIALIST</i>
Title: Staff Engineer	Approval Date: <i>10/12/2023</i>
E-mail Address: kwhite@enduringresources.com	
Date: 8/18/2023	Phone: 720-768-3575



ENDURING RESOURCES IV LLC

September 6, 2023

Re: GREATER LYBROOK UNIT 048H-30-045-38283

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

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

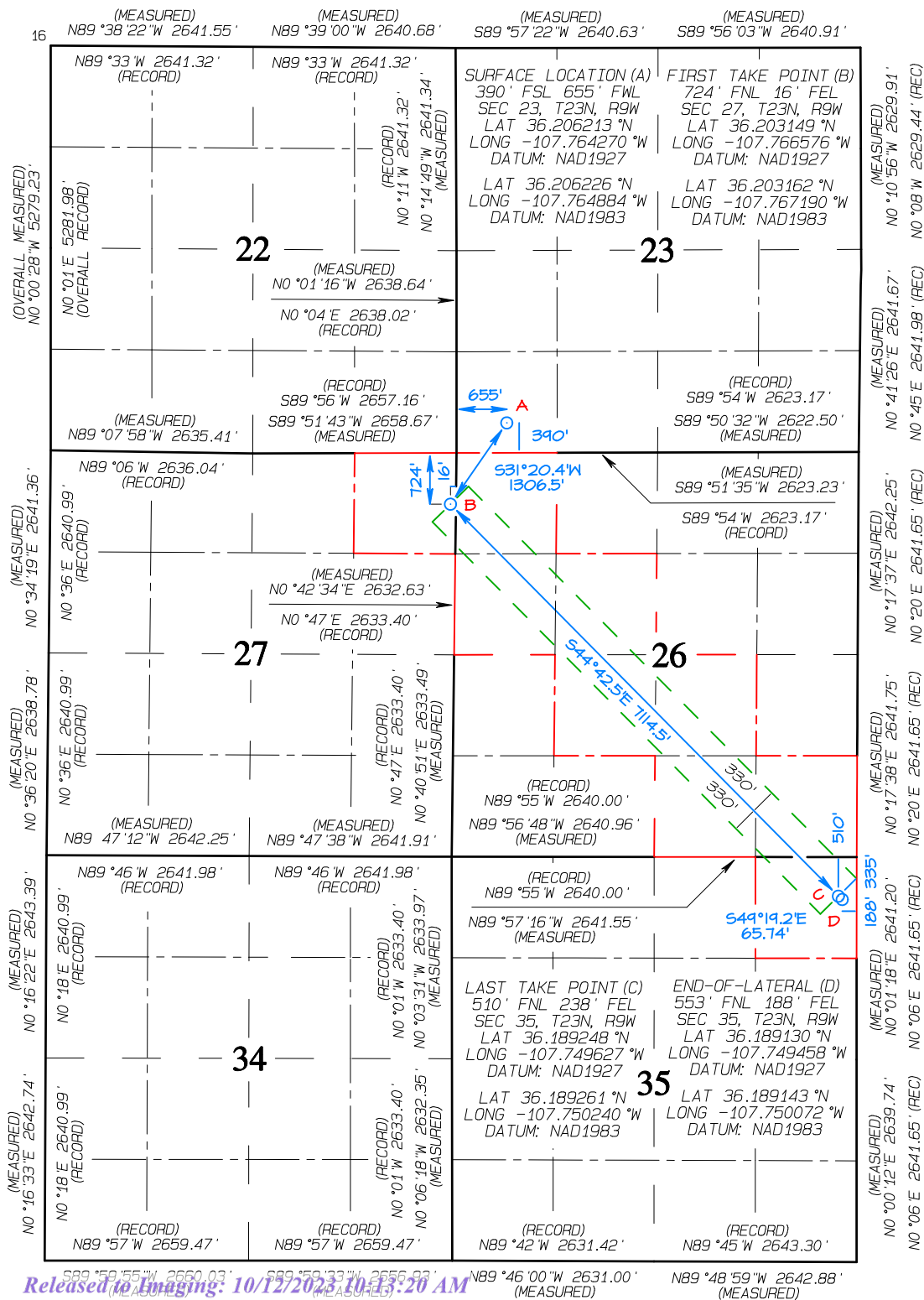
¹ API Number 30-045-38283		² Pool Code 98157		³ Pool Name LYBROOK MANCOS W			
⁴ Property Code 332891		⁵ Property Name GREATER LYBROOK UNIT				⁶ Well Number 048H	
⁷ OGRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC				⁹ Elevation 6747'	

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		390	SOUTH	655	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
A	35	23N	9W		553	NORTH	188	EAST	SAN JUAN



¹² Dedicated Acres 360.0 W/2 NW/4, SE/4 NW/4 NE/4 SW/4, W/2 SE/4 SE/4 SE/4 - Section 26 NE/4 NE/4 - Section 27 NE/4 NE/4 - Section 35	
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 5/30/23
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 NEW MEXICO 15269 REGISTERED PROFESSIONAL SURVEYOR JASON C. EDWARDS Certificate Number 15269	

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

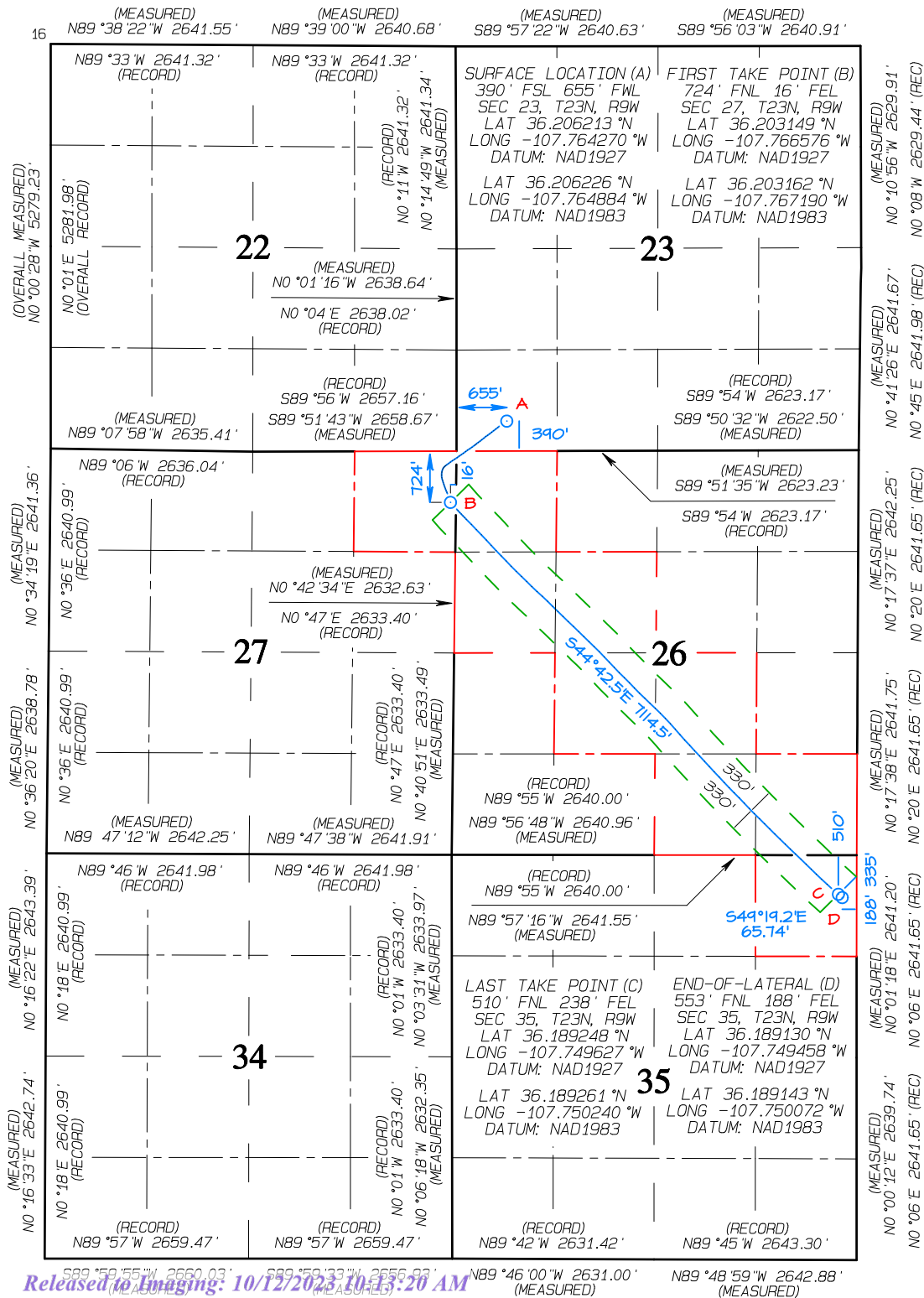
¹ API Number 30-045-38283		² Pool Code 98157		³ Pool Name LYBROOK MANCOS W			
⁴ Property Code 332891		⁵ Property Name GREATER LYBROOK UNIT				⁶ Well Number 048H	
⁷ OGRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC				⁹ Elevation 6747'	

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		390	SOUTH	655	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
A	35	23N	9W		553	NORTH	188	EAST	SAN JUAN



¹² Dedicated Acres 360.0		W/2 NW/4, SE/4 NW/4 NE/4 SW/4, W/2 SE/4 SE/4 SE/4 - Section 26 NE/4 NE/4 - Section 27 NE/4 NE/4 - Section 35	
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.	
	5/30/23
Signature	Date
Heather Huntington	
Printed Name	
hhuntington@enduringresources.com	
E-mail Address	

¹⁸ SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
Date Revised: MAY 30, 2023	
Date of Survey: MAY 20, 2021	
Signature and Seal of Professional Surveyor	



JASON C. EDWARDS
Certificate Number 15269

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38283	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 048H
⁷ OGRID 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		390	SOUTH	655	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
A	35	23N	9W		553	NORTH	188	EAST	SAN JUAN

[illegible]

12	Dedicated Acres	W/2 NW/4, SE/4 NW/4 NE/4 SW/4, W/2 SE/4 SE/4 SE/4 - Section 26 NE/4 NE/4 - Section 27 NE/4 NE/4 - Section 35
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.

 5/30/2023

Signature Date

Heather Huntington

Printed Name

hhuntington@enduringresources.com

E-mail Address

18 SURVEYOR CERTIFICATION

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

Date Revised: MAY 30, 2023
Date of Survey: MAY 20, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Reference	MWD 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 1,420.10ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Program	Date	5/18/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
416.00	2,646.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard
2,756.00	12,123.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
12,201.00	12,201.00	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 - rev4	3,000.00	2,999.92	0.45	-1.27	0.261	Level 1<1.00, CC, SF
Greater Lybrook Unit No. 048H - Original Hole - rev4	12,000.00	12,021.77	9.99	-12.84	0.437	Level 1<1.00, ES
Greater Lybrook Unit No. 049H - Original Hole - Surveys	514.14	514.14	19.73	17.63	9.375	CC
Greater Lybrook Unit No. 049H - Original Hole - Surveys	800.00	800.00	20.65	16.50	4.979	ES
Greater Lybrook Unit No. 049H - Original Hole - Surveys	11,700.00	11,111.06	738.17	487.91	2.950	SF
Greater Lybrook Unit No. 050H - Original Hole - Surveys	0.00	0.00	39.92			
Greater Lybrook Unit No. 050H - Original Hole - Surveys	200.00	199.87	40.31	39.65	61.940	ES
Greater Lybrook Unit No. 050H - Original Hole - Surveys	12,201.00	11,947.62	1,204.25	864.54	3.545	SF
Greater Lybrook Unit No. 051H - Original Hole - Surveys	0.00	0.00	80.09			
Greater Lybrook Unit No. 051H - Original Hole - Surveys	100.00	99.82	80.22	79.91	264.884	ES
Greater Lybrook Unit No. 051H - Original Hole - Surveys	1,100.00	1,099.35	102.74	96.44	16.307	SF
Greater Lybrook Unit No. 052H - Original Hole - Surveys	600.00	600.24	99.33	96.60	36.475	CC
Greater Lybrook Unit No. 052H - Original Hole - Surveys	900.00	900.29	100.77	95.90	20.706	ES
Greater Lybrook Unit No. 052H - Original Hole - Surveys	1,100.00	1,099.25	114.70	108.43	18.299	SF
Rodeo Unit 511 pad (511, 512 & 513)						
Rodeo Unit #513H - Original Hole - Surveys Original Hole	12,201.00	4,866.00	347.38	236.71	3.139	CC, ES, SF
W Lybrook 726 Pad (726, 728, 729, 760 & 761)						
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	567.12	569.04	171.19	168.74	69.929	CC
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	900.00	902.41	172.37	167.59	36.047	ES
W Lybrook Unit No. 726H - Original Hole - Surveys Origin	1,200.00	1,194.12	189.56	182.64	27.375	SF
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	567.12	569.04	171.19	168.74	69.929	CC
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	900.00	902.41	172.37	167.59	36.047	ES
W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetr	1,200.00	1,194.12	189.56	182.64	27.375	SF
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	0.00	2.99	161.17			
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,000.00	1,005.62	162.93	157.42	29.620	ES
W Lybrook Unit No. 728H - Original Hole - Surveys Origin	1,300.00	1,302.20	179.47	171.79	23.374	SF
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,335.70	1,348.15	92.71	84.63	11.479	CC, ES
W Lybrook Unit No. 729H - Original Hole - Surveys Origin	1,400.00	1,412.38	94.32	85.76	11.019	SF
W Lybrook Unit No. 760H - Original Hole - Surveys Origin	0.00	2.98	145.59			
W Lybrook Unit No. 760H - Original Hole - Surveys Origin	1,100.00	1,103.01	151.71	145.48	24.334	ES
W Lybrook Unit No. 760H - Original Hole - Surveys Origin	1,400.00	1,399.30	179.08	170.62	21.179	SF
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,772.85	1,796.00	84.09	73.06	7.621	CC, ES
W Lybrook Unit No. 761H - Original Hole - Surveys Origin	1,900.00	1,919.86	88.90	76.69	7.283	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. 048H
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. 048H	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:	MWD 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 - rev4													Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2646-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis			Offset Wellbore Centre			Distance			Minimum	Separation	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)	Separation (ft)	Factor		
2,646.00	2,566.92	2,646.00	2,566.92	0.00	0.00	89.76	-295.76	-394.13	0.06					
2,700.00	2,618.35	2,700.00	2,618.33	0.29	0.34	62.87	-305.92	-407.18	0.13	-0.36	0.49	0.267	Level 1<1.00	
2,800.00	2,713.54	2,799.97	2,713.28	0.70	0.97	47.53	-324.90	-432.04	1.13	0.01	1.13	1.008	Level 2<1.50	
2,900.00	2,807.58	2,899.93	2,807.01	1.07	1.65	12.62	-344.72	-460.56	1.66	0.57	1.09	1.524	Level 3<2.00	
3,000.00	2,900.65	2,999.92	2,900.57	1.51	2.33	-62.07	-364.67	-489.62	0.45	-1.27	1.72	0.261	Level 1<1.00, CC, SF	
3,000.00	2,900.51	2,999.91	2,900.57	1.51	2.33	-107.31	-364.67	-489.62	0.51	-1.28	1.78	0.283	Level 1<1.00	
3,100.00	2,993.55	3,099.90	2,994.13	1.97	3.02	-172.43	-384.62	-518.69	1.65	-0.43	2.08	0.795	Level 1<1.00	
3,200.00	3,087.03	3,199.89	3,087.70	2.44	3.72	158.91	-404.57	-547.76	2.05	-0.54	2.58	0.793	Level 1<1.00	
3,300.00	3,180.19	3,299.89	3,181.27	2.92	4.41	162.91	-424.52	-576.83	3.23	0.13	3.10	1.041	Level 2<1.50	
3,399.66	3,273.52	3,399.54	3,274.53	3.41	5.10	152.59	-444.41	-605.80	3.24	-0.26	3.50	0.925	Level 1<1.00	
3,400.00	3,274.17	3,399.87	3,274.84	3.41	5.10	135.11	-444.47	-605.90	2.71	-1.03	3.75	0.724	Level 1<1.00	
3,500.00	3,367.41	3,499.86	3,368.41	3.92	5.80	146.11	-464.42	-634.97	3.38	-0.65	4.03	0.838	Level 1<1.00	
3,600.00	3,459.96	3,599.82	3,461.94	4.47	6.49	168.00	-484.37	-664.03	5.74	1.33	4.40	1.303	Level 2<1.50	
3,700.00	3,552.80	3,699.80	3,555.50	5.03	7.19	174.15	-504.32	-693.10	7.71	2.74	4.97	1.550	Level 3<2.00	
3,800.00	3,646.16	3,799.80	3,649.07	5.59	7.89	172.66	-524.27	-722.17	8.33	3.05	5.28	1.577	Level 3<2.00	
3,900.00	3,739.94	3,899.78	3,742.63	6.12	8.58	169.88	-544.22	-751.24	7.81	2.12	5.69	1.373	Level 2<1.50	
4,000.00	3,835.14	3,999.64	3,836.08	6.63	9.28	132.62	-564.15	-780.27	4.12	-2.54	6.66	0.619	Level 1<1.00	
4,033.53	3,867.00	4,033.14	3,867.43	6.80	9.51	111.08	-570.83	-790.01	3.75	-3.88	7.64	0.491	Level 1<1.00	
4,100.00	3,930.20	4,099.53	3,929.56	7.13	9.98	70.06	-584.08	-809.31	4.69	-3.59	8.29	0.566	Level 1<1.00	
4,200.00	4,022.81	4,199.64	4,023.26	7.72	10.67	110.62	-604.68	-837.83	13.24	-3.22	16.46	0.804	Level 1<1.00	
4,300.00	4,111.34	4,302.07	4,118.74	8.35	11.34	142.50	-635.75	-857.41	26.25	8.90	17.35	1.513	Level 3<2.00	
4,400.00	4,198.24	4,406.93	4,213.30	8.90	11.94	157.90	-680.29	-863.83	34.03	17.29	16.74	2.033		
4,500.00	4,283.14	4,512.22	4,301.99	9.36	12.46	166.45	-736.30	-856.44	33.14	17.88	15.26	2.172		
4,600.00	4,364.26	4,616.17	4,382.13	9.78	12.93	165.19	-799.66	-837.75	27.05	14.22	12.82	2.109		
4,700.00	4,437.42	4,719.15	4,452.83	10.25	13.37	170.44	-868.64	-808.92	20.19	10.04	10.15	1.989	Level 3<2.00	
4,787.98	4,492.47	4,808.80	4,506.18	10.74	13.75	-167.35	-932.61	-775.93	17.08	6.57	10.51	1.625	Level 3<2.00	
4,800.00	4,499.34	4,820.93	4,512.76	10.81	13.80	-162.29	-941.49	-770.93	17.06	6.11	10.94	1.559	Level 3<2.00	
4,900.00	4,549.41	4,921.25	4,563.48	11.42	14.26	-140.97	-1,015.90	-726.75	21.33	8.11	13.21	1.614	Level 3<2.00	
5,000.00	4,592.10	5,022.53	4,605.85	12.03	14.79	-130.96	-1,092.35	-675.85	22.36	7.59	14.78	1.513	Level 3<2.00	
5,100.00	4,620.02	5,123.58	4,632.83	12.67	15.39	-131.49	-1,168.98	-615.97	19.47	3.60	15.87	1.227	Level 2<1.50	
5,200.00	4,632.31	5,224.70	4,643.69	13.41	16.12	-136.39	-1,243.64	-548.84	15.71	0.38	15.32	1.025	Level 2<1.50	
5,300.00	4,637.77	5,324.73	4,643.77	14.37	16.99	-117.50	-1,315.02	-478.77	12.98	-6.98	19.96	0.650	Level 1<1.00	
5,371.99	4,639.40	5,396.70	4,643.66	15.17	17.70	-109.74	-1,366.33	-428.31	12.61	-7.24	19.85	0.635	Level 1<1.00	
5,400.00	4,639.18	5,424.71	4,643.61	15.50	18.00	-110.53	-1,386.30	-408.66	12.65	-7.79	20.44	0.619	Level 1<1.00	
5,500.00	4,639.23	5,524.71	4,643.46	16.76	19.12	-108.14	-1,457.60	-338.55	13.56	-7.76	21.32	0.636	Level 1<1.00	
5,600.00	4,638.86	5,624.69	4,643.30	18.32	20.44	-107.26	-1,528.88	-268.44	14.98	-9.01	23.99	0.624	Level 1<1.00	
5,700.00	4,639.03	5,724.63	4,643.14	20.94	23.15	-103.36	-1,600.13	-198.36	17.74	0.17	17.57	1.010	Level 2<1.50	
5,800.00	4,638.74	5,824.53	4,642.99	23.46	25.52	-101.41	-1,671.36	-128.31	21.49	2.61	18.87	1.139	Level 2<1.50	
5,900.00	4,641.22	5,924.50	4,642.83	25.89	27.83	-94.43	-1,742.63	-58.22	20.85	2.38	18.47	1.129	Level 2<1.50	
5,935.83	4,641.92	5,960.32	4,642.78	26.73	28.64	-92.37	-1,768.18	-33.10	20.67	2.25	18.42	1.122	Level 2<1.50	
6,000.00	4,642.45	6,024.48	4,642.68	28.25	30.10	-90.61	-1,813.92	11.89	21.29	2.82	18.48	1.152	Level 2<1.50	
6,100.00	4,642.17	6,124.46	4,642.52	30.56	32.34	-90.86	-1,885.20	82.00	23.15	3.73	19.42	1.192	Level 2<1.50	
6,200.00	4,643.36	6,224.44	4,642.36	32.85	34.56	-87.43	-1,956.48	152.10	22.47	2.83	19.64	1.144	Level 2<1.50	
6,300.00	4,644.93	6,324.40	4,642.21	35.13	36.78	-82.33	-2,027.75	222.19	20.38	2.19	18.19	1.120	Level 2<1.50	
6,400.00	4,644.27	6,424.39	4,642.05	37.40	38.99	-83.31	-2,099.04	292.30	19.02	0.45	18.57	1.024	Level 2<1.50	
6,500.00	4,646.36	6,524.31	4,641.90	39.66	41.19	-74.31	-2,170.28	362.37	16.56	2.00	14.56	1.137	Level 2<1.50	
6,600.00	4,649.49	6,624.17	4,641.74	41.91	43.39	-56.87	-2,241.48	432.39	14.21	2.90	11.31	1.256	Level 2<1.50	
6,700.00	4,652.08	6,723.99	4,641.59	44.17	45.59	-32.07	-2,312.65	502.38	12.39	2.84	9.55	1.298	Level 2<1.50	
6,800.00	4,650.97	6,823.96	4,641.43	46.41	47.79	-27.60	-2,383.93	572.48	10.76	1.48	9.28	1.159	Level 2<1.50	
6,900.00	4,649.40	6,923.95	4,641.27	48.65	49.99	-24.57	-2,455.21	642.59	8.94	0.12	8.82	1.013	Level 2<1.50	
7,000.00	4,648.08	7,023.91	4,641.12	50.90	52.19	-12.20	-2,526.48	712.69	7.12	-2.63	9.74	0.730	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. 048H
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. 048H	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:	MWD 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 - rev4												Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2646-MWD												Offset Well Error:	0.00 ft
Reference												Rule Assigned:	
Offset												Distance	
Semi Major Axis												Between	
Reference												Centres	
Offset												Ellipses	
Highside												Minimum	
Toolface												Separation	
+N/-S												Factor	
+E/-W												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	Warning
7,099.43	4,647.05	7,123.30	4,640.96	53.13	54.39	12.89	-2,597.34	782.38	6.25	-4.55	10.80	0.578	Level 1<1.00
7,100.00	4,647.03	7,123.86	4,640.96	53.14	54.40	14.64	-2,597.74	782.77	6.27	-4.28	10.55	0.594	Level 1<1.00
7,200.00	4,646.32	7,223.83	4,640.81	55.39	56.61	35.60	-2,669.02	852.87	6.78	-5.04	11.82	0.573	Level 1<1.00
7,300.00	4,646.06	7,323.80	4,640.65	57.63	58.82	48.67	-2,740.29	922.97	8.19	-5.60	13.79	0.594	Level 1<1.00
7,400.00	4,645.71	7,423.76	4,640.49	59.88	61.03	59.11	-2,811.56	993.06	10.16	-5.56	15.72	0.646	Level 1<1.00
7,500.00	4,644.49	7,523.75	4,640.34	62.12	63.25	67.11	-2,882.85	1,063.17	10.67	-6.61	17.27	0.618	Level 1<1.00
7,600.00	4,644.48	7,623.68	4,640.18	64.38	65.46	72.14	-2,954.10	1,133.24	14.02	-6.14	20.16	0.695	Level 1<1.00
7,700.00	4,645.02	7,723.65	4,640.03	66.62	67.68	71.30	-3,025.37	1,203.34	15.56	-5.85	21.42	0.727	Level 1<1.00
7,800.00	4,644.85	7,823.64	4,639.87	68.86	69.90	69.43	-3,096.66	1,273.45	14.17	-6.24	20.41	0.694	Level 1<1.00
7,900.00	4,644.07	7,923.61	4,639.71	71.09	72.13	68.51	-3,167.94	1,343.55	11.87	-6.79	18.66	0.636	Level 1<1.00
8,000.00	4,642.60	8,023.58	4,639.56	73.32	74.36	70.60	-3,239.21	1,413.65	9.14	-9.91	19.06	0.480	Level 1<1.00
8,080.66	4,641.70	8,104.22	4,639.43	75.13	76.15	74.13	-3,296.71	1,470.20	8.31	-11.04	19.35	0.429	Level 1<1.00
8,100.00	4,641.45	8,123.57	4,639.40	75.56	76.58	75.62	-3,310.50	1,483.76	8.26	-11.27	19.52	0.423	Level 1<1.00
8,200.00	4,641.68	8,223.55	4,639.25	77.82	78.82	76.12	-3,381.78	1,553.86	10.14	-10.12	20.26	0.501	Level 1<1.00
8,300.00	4,641.76	8,323.54	4,639.09	80.06	81.05	74.40	-3,453.08	1,623.98	9.93	-10.28	20.21	0.491	Level 1<1.00
8,399.39	4,641.29	8,422.94	4,638.94	82.30	83.27	75.72	-3,523.94	1,693.67	9.55	-10.29	19.84	0.481	Level 1<1.00
8,400.00	4,641.33	8,423.54	4,638.94	82.31	83.28	75.19	-3,524.37	1,694.10	9.37	-11.31	20.68	0.453	Level 1<1.00
8,500.00	4,640.40	8,523.53	4,638.78	84.57	85.52	80.99	-3,595.66	1,764.21	10.40	-9.66	20.06	0.518	Level 1<1.00
8,600.00	4,639.83	8,623.48	4,638.62	86.83	87.76	84.84	-3,666.92	1,834.29	13.42	-7.34	20.76	0.646	Level 1<1.00
8,700.00	4,639.44	8,723.43	4,638.47	89.10	90.00	86.61	-3,738.18	1,904.38	16.33	-6.94	23.27	0.702	Level 1<1.00
8,800.00	4,640.98	8,823.35	4,638.31	91.37	92.24	82.35	-3,809.42	1,974.44	19.98	-5.03	25.01	0.799	Level 1<1.00
8,900.00	4,641.84	8,923.34	4,638.16	93.63	94.48	79.65	-3,880.71	2,044.56	20.54	-3.70	24.24	0.847	Level 1<1.00
9,000.00	4,642.86	9,023.29	4,638.00	95.87	96.72	74.47	-3,951.98	2,114.64	18.20	-5.93	24.13	0.754	Level 1<1.00
9,100.00	4,643.47	9,123.12	4,637.16	98.09	98.96	63.20	-4,023.14	2,184.64	14.00	-5.96	19.97	0.701	Level 1<1.00
9,200.00	4,643.91	9,222.94	4,636.24	100.31	101.21	41.10	-4,094.31	2,254.63	10.18	-6.33	16.51	0.617	Level 1<1.00
9,300.00	4,642.80	9,322.81	4,635.32	102.54	103.45	12.96	-4,165.50	2,324.66	7.67	-5.79	13.46	0.570	Level 1<1.00
9,398.73	4,640.50	9,421.46	4,634.41	104.75	105.67	-17.62	-4,235.83	2,393.84	6.39	-6.07	12.46	0.513	Level 1<1.00
9,400.00	4,640.48	9,422.72	4,634.40	104.77	105.70	-19.08	-4,236.74	2,394.72	6.43	-6.18	12.61	0.510	Level 1<1.00
9,500.00	4,638.46	9,522.67	4,633.48	107.01	107.95	-46.13	-4,307.99	2,464.80	7.19	-6.32	13.51	0.532	Level 1<1.00
9,600.00	4,636.50	9,622.63	4,632.56	109.26	110.20	-63.49	-4,379.25	2,534.89	8.83	-8.70	17.53	0.504	Level 1<1.00
9,700.00	4,634.87	9,722.60	4,631.64	111.51	112.46	-72.44	-4,450.52	2,604.99	10.71	-9.07	19.78	0.542	Level 1<1.00
9,800.00	4,633.72	9,822.57	4,630.72	113.75	114.71	-76.68	-4,521.79	2,675.09	13.03	-9.93	22.95	0.568	Level 1<1.00
9,900.00	4,633.01	9,922.52	4,629.80	116.00	116.97	-78.36	-4,593.05	2,745.18	15.93	-8.88	24.82	0.642	Level 1<1.00
10,000.00	4,632.61	10,022.47	4,628.88	118.24	119.22	-78.73	-4,664.30	2,815.26	19.13	-6.98	26.11	0.733	Level 1<1.00
10,100.00	4,632.33	10,122.43	4,627.96	120.49	121.48	-78.46	-4,735.57	2,885.35	21.87	-5.45	27.32	0.800	Level 1<1.00
10,200.00	4,630.93	10,222.43	4,627.04	122.75	123.73	-79.86	-4,806.85	2,955.47	22.10	-6.56	28.66	0.771	Level 1<1.00
10,269.65	4,630.08	10,292.08	4,626.39	124.33	125.31	-80.39	-4,856.51	3,004.31	22.09	-7.98	30.07	0.735	Level 1<1.00
10,300.00	4,629.85	10,322.43	4,626.12	125.02	125.99	-80.24	-4,878.15	3,025.59	22.04	-5.88	27.93	0.789	Level 1<1.00
10,400.00	4,628.70	10,422.43	4,625.19	127.28	128.25	-81.13	-4,949.43	3,095.71	22.74	-6.20	28.94	0.786	Level 1<1.00
10,500.00	4,627.55	10,522.41	4,624.27	129.54	130.51	-82.23	-5,020.72	3,165.82	24.27	-6.90	31.17	0.779	Level 1<1.00
10,600.00	4,626.66	10,622.41	4,623.35	131.80	132.77	-82.37	-5,092.00	3,235.93	24.88	-6.35	31.23	0.797	Level 1<1.00
10,700.00	4,626.32	10,722.40	4,622.43	134.07	135.04	-80.51	-5,163.28	3,306.04	23.59	-5.79	29.38	0.803	Level 1<1.00
10,800.00	4,625.59	10,822.39	4,621.51	136.35	137.30	-79.63	-5,234.57	3,376.16	22.68	-8.09	30.77	0.737	Level 1<1.00
10,900.00	4,624.56	10,922.39	4,620.59	138.62	139.56	-79.77	-5,305.86	3,446.28	22.38	-5.33	27.71	0.808	Level 1<1.00
10,930.53	4,624.29	10,952.92	4,620.31	139.31	140.25	-79.73	-5,327.63	3,467.68	22.31	-5.81	28.13	0.793	Level 1<1.00
11,000.00	4,623.95	11,022.38	4,619.67	140.89	141.83	-78.35	-5,377.15	3,516.39	21.19	-7.37	28.56	0.742	Level 1<1.00
11,100.00	4,623.92	11,122.35	4,618.75	143.18	144.09	-74.43	-5,448.42	3,586.49	19.29	-5.66	24.95	0.773	Level 1<1.00
11,200.00	4,623.83	11,222.33	4,617.83	145.46	146.35	-70.31	-5,519.69	3,656.59	17.81	-7.08	24.90	0.715	Level 1<1.00
11,300.00	4,624.25	11,322.29	4,616.91	147.74	148.62	-62.86	-5,590.96	3,726.69	16.11	-6.51	22.61	0.712	Level 1<1.00
11,400.00	4,624.72	11,422.24	4,615.98	150.03	150.88	-52.75	-5,662.21	3,796.77	14.44	-6.20	20.64	0.700	Level 1<1.00
11,500.00	4,624.82	11,522.18	4,615.06	152.31	153.15	-39.84	-5,733.46	3,866.85	12.71	-5.07	17.77	0.715	Level 1<1.00
11,600.00	4,624.62	11,622.13	4,614.14	154.60	155.42	-25.86	-5,804.71	3,936.93	11.64	-6.44	18.08	0.644	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. 048H
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. 048H	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:	MWD 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 - rev4												Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2646-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Rule Assigned:											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
11,700.00	4,623.02	11,722.11	4,613.22	156.89	157.68	-18.59	-5,875.99	4,007.04	10.33	-7.63	17.96	0.575	Level 1<1.00
11,800.00	4,620.57	11,822.06	4,612.30	159.17	159.95	-4.65	-5,947.25	4,077.12	8.29	-8.64	16.93	0.490	Level 1<1.00
11,887.98	4,618.09	11,909.95	4,611.49	161.19	161.94	23.29	-6,009.91	4,138.75	7.19	-8.31	15.50	0.464	Level 1<1.00
11,900.00	4,617.69	11,921.96	4,611.38	161.47	162.22	28.34	-6,018.47	4,147.17	7.17	-9.60	16.77	0.428	Level 1<1.00
12,000.00	4,614.62	12,021.77	4,610.46	163.77	164.48	65.27	-6,089.63	4,217.16	9.99	-12.84	22.83	0.437	Level 1<1.00, ES
12,100.00	4,610.86	12,121.46	4,609.54	166.08	166.74	85.21	-6,160.70	4,287.06	16.46	-10.67	27.13	0.607	Level 1<1.00
12,200.00	4,606.49	12,180.53	4,609.00	167.87	168.08	91.74	-6,202.81	4,328.48	47.52	36.87	10.65	4.463	
12,201.00	4,606.44	12,180.53	4,609.00	167.89	168.08	91.74	-6,202.81	4,328.48	48.41	38.77	9.64	5.022	

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. 048H
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. 048H	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:	MWD 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, 2694-MWD, 11175-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	47.56	13.48	14.74	19.97					
100.00	100.00	100.01	100.01	0.13	0.17	99.61	13.51	14.68	19.96	19.66	0.30	65.906		
200.00	200.00	200.02	200.02	0.31	0.34	99.71	13.60	14.50	19.93	19.28	0.65	30.634		
300.00	300.00	300.03	300.03	0.49	0.51	99.88	13.76	14.20	19.88	18.88	1.00	19.910		
400.00	400.00	400.04	400.04	0.67	0.67	100.11	13.97	13.79	19.80	18.46	1.35	14.711		
500.00	499.99	500.00	500.00	1.00	1.00	87.51	14.29	13.34	19.73	17.73	2.00	9.850		
514.14	514.13	514.14	514.13	1.05	1.05	90.70	14.35	13.29	19.73	17.63	2.10	9.375 CC		
600.00	599.99	600.04	600.04	1.36	1.36	109.16	14.60	12.94	19.74	17.03	2.72	7.261		
700.00	699.99	700.02	700.01	1.72	1.72	131.05	14.90	12.46	20.05	16.61	3.43	5.837		
800.00	799.98	800.00	800.00	2.07	2.08	146.37	15.25	12.10	20.65	16.50	4.15	4.979 ES		
900.00	899.98	900.03	900.02	2.43	2.43	162.32	15.41	11.76	21.40	16.54	4.86	4.404		
1,000.00	999.85	999.91	999.90	2.79	2.78	165.96	15.34	11.60	25.76	20.19	5.56	4.629		
1,100.00	1,099.31	1,099.41	1,099.40	3.16	3.13	172.17	15.28	11.36	35.64	29.36	6.28	5.677		
1,200.00	1,198.17	1,198.27	1,198.27	3.54	3.49	179.64	15.34	11.05	50.35	43.35	6.99	7.199		
1,300.00	1,296.24	1,296.36	1,296.35	3.95	3.84	-174.03	15.58	10.73	69.67	61.96	7.71	9.038		
1,400.00	1,393.27	1,393.61	1,393.60	4.39	4.18	-171.24	15.66	10.43	93.42	85.00	8.42	11.095		
1,500.00	1,489.00	1,493.36	1,493.33	4.88	4.54	-174.13	14.97	9.11	120.63	111.49	9.14	13.200		
1,600.00	1,583.31	1,597.41	1,597.16	5.42	4.91	-178.81	11.59	3.34	147.75	137.89	9.86	14.984		
1,700.00	1,676.66	1,703.99	1,702.88	6.01	5.30	178.85	5.04	-8.27	171.79	161.21	10.58	16.243		
1,800.00	1,769.99	1,811.70	1,808.78	6.63	5.72	177.60	-4.17	-25.53	190.48	179.19	11.29	16.870		
1,900.00	1,863.43	1,920.35	1,914.38	7.26	6.16	176.34	-16.37	-47.95	203.55	191.54	12.01	16.950		
2,000.00	1,956.98	2,021.56	2,012.08	7.90	6.61	175.04	-29.32	-71.00	213.65	200.87	12.77	16.727		
2,100.00	2,050.92	2,120.28	2,107.37	8.54	7.06	174.01	-41.84	-93.53	222.66	209.10	13.56	16.422		
2,200.00	2,145.21	2,220.05	2,203.70	9.18	7.54	175.05	-54.27	-116.34	230.87	216.52	14.35	16.088		
2,300.00	2,239.47	2,320.50	2,300.61	9.82	8.03	174.23	-66.74	-139.61	239.03	223.88	15.15	15.777		
2,400.00	2,333.71	2,421.01	2,397.44	10.47	8.53	173.30	-79.12	-163.57	246.90	230.94	15.96	15.466		
2,500.00	2,428.17	2,520.53	2,493.26	11.11	9.04	172.56	-91.42	-187.50	254.02	237.23	16.79	15.129		
2,600.00	2,523.15	2,620.14	2,589.21	11.74	9.51	171.58	-103.63	-211.31	259.79	242.21	17.58	14.780		
2,700.00	2,618.35	2,719.18	2,684.63	12.26	9.81	171.31	-116.41	-234.55	264.74	246.66	18.08	14.643		
2,800.00	2,713.54	2,813.59	2,775.66	12.66	10.00	168.09	-125.68	-257.77	271.36	253.01	18.35	14.790		
2,900.00	2,807.58	2,910.47	2,869.22	13.00	10.20	162.94	-133.47	-281.68	282.28	263.76	18.52	15.241		
3,000.00	2,900.51	3,011.03	2,966.55	13.40	10.44	163.66	-141.48	-305.68	296.66	277.94	18.72	15.847		
3,100.00	2,993.55	3,115.85	3,067.36	13.83	10.73	164.74	-150.85	-332.80	309.03	290.05	18.98	16.283		
3,200.00	3,087.03	3,214.16	3,161.88	14.27	11.03	163.66	-160.21	-358.14	320.11	300.80	19.31	16.578		
3,300.00	3,180.19	3,311.31	3,255.55	14.73	11.34	163.02	-169.84	-382.04	332.33	312.68	19.65	16.913		
3,400.00	3,274.17	3,407.63	3,348.75	15.21	11.66	162.81	-179.59	-404.31	343.36	323.34	20.02	17.149		
3,500.00	3,367.41	3,509.63	3,447.76	15.71	11.99	161.05	-190.30	-426.32	356.76	336.39	20.37	17.513		
3,600.00	3,459.96	3,636.66	3,569.51	16.25	12.41	164.16	-220.51	-443.97	365.75	345.43	20.32	17.999		
3,700.00	3,552.80	3,741.06	3,665.62	16.80	12.74	170.62	-260.97	-446.22	371.40	351.20	20.20	18.385		
3,800.00	3,646.16	3,828.59	3,742.57	17.35	12.99	176.52	-302.17	-440.16	379.21	358.84	20.37	18.612		
3,900.00	3,739.94	3,907.28	3,809.96	17.88	13.22	-175.65	-341.61	-430.50	392.73	371.90	20.83	18.851		
4,000.00	3,835.14	3,982.00	3,871.60	18.38	13.45	-170.35	-381.74	-417.44	409.81	388.29	21.52	19.043		
4,100.00	3,930.20	4,045.00	3,921.14	18.89	13.65	-164.28	-417.65	-402.50	437.07	414.84	22.23	19.665		
4,200.00	4,022.81	4,096.83	3,959.95	19.48	13.82	-135.52	-448.19	-386.81	477.42	454.79	22.63	21.100		
4,300.00	4,111.34	4,152.67	3,999.84	20.09	14.00	-113.75	-481.74	-366.81	522.93	500.00	22.93	22.805		
4,400.00	4,198.24	4,217.27	4,042.78	20.62	14.24	-97.04	-522.14	-340.45	564.11	540.73	23.38	24.125		
4,500.00	4,283.14	4,286.13	4,084.15	21.06	14.55	-83.49	-567.85	-309.81	600.05	576.10	23.95	25.056		
4,600.00	4,364.26	4,366.83	4,128.51	21.45	15.02	-75.72	-623.82	-272.25	630.69	605.75	24.94	25.286		
4,700.00	4,437.42	4,429.25	4,160.78	21.88	15.47	-71.17	-667.71	-241.82	659.01	633.67	25.34	26.012		
4,800.00	4,499.34	4,485.00	4,185.70	22.38	15.94	-67.03	-707.92	-212.34	686.49	660.89	25.59	26.822		
4,900.00	4,549.41	4,532.48	4,203.64	22.91	16.40	-63.92	-742.42	-185.11	710.00	684.30	25.70	27.630		
5,000.00	4,592.10	4,580.00	4,218.42	23.42	16.91	-59.69	-776.77	-155.81	727.99	702.10	25.89	28.116		

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. 048H
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. 048H	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:	MWD 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, 2694-MWD, 11175-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	4,620.02	4,634.73	4,231.48	23.90	17.56	-57.28	-816.12	-120.11	734.08	707.53	26.55	27.645
5,200.00	4,632.31	4,695.60	4,240.52	24.41	18.36	-57.33	-860.04	-78.98	731.16	703.40	27.75	26.344
5,300.00	4,637.77	4,775.81	4,245.76	25.07	19.54	-57.36	-918.72	-24.57	728.71	698.84	29.87	24.397
5,400.00	4,639.18	4,862.00	4,249.16	25.92	20.94	-57.46	-981.62	34.26	725.54	693.17	32.37	22.412
5,500.00	4,639.23	4,957.00	4,251.18	26.98	22.59	-57.57	-1,050.75	99.39	723.51	688.14	35.37	20.453
5,542.66	4,639.01	4,990.32	4,251.49	27.49	23.19	-57.60	-1,074.84	122.41	723.17	686.53	36.63	19.740
5,600.00	4,638.86	5,035.01	4,251.50	28.24	24.01	-57.64	-1,106.76	153.68	723.67	685.93	37.74	19.176
5,700.00	4,639.03	5,120.93	4,250.41	29.67	25.63	-57.57	-1,167.22	214.72	728.02	687.52	40.51	17.973
5,800.00	4,638.74	5,210.24	4,248.09	31.24	27.36	-57.89	-1,229.40	278.78	734.43	690.89	43.54	16.867
5,900.00	4,641.22	5,351.17	4,245.74	32.91	30.18	-57.57	-1,328.46	378.96	737.93	689.15	48.78	15.128
5,902.36	4,641.27	5,346.06	4,245.63	32.95	30.08	-57.57	-1,324.77	375.42	737.98	689.45	48.53	15.207
6,000.00	4,642.45	5,438.55	4,245.64	34.67	31.98	-57.51	-1,390.85	440.13	738.87	687.13	51.74	14.281
6,100.00	4,642.17	5,529.56	4,244.07	36.51	33.87	-57.49	-1,455.85	503.83	741.06	686.15	54.90	13.497
6,200.00	4,643.36	5,620.22	4,240.52	38.40	35.78	-57.19	-1,520.42	567.35	743.23	685.35	57.88	12.842
6,300.00	4,644.93	5,749.28	4,239.61	40.35	38.52	-56.86	-1,612.99	657.25	741.80	679.13	62.67	11.837
6,400.00	4,644.27	5,840.32	4,240.14	42.33	40.48	-56.88	-1,678.14	720.83	739.71	673.80	65.90	11.224
6,500.00	4,646.36	5,943.59	4,239.32	44.36	42.71	-56.50	-1,751.94	793.05	738.63	669.16	69.47	10.632
6,600.00	4,649.49	6,048.49	4,241.64	46.41	44.99	-56.21	-1,826.85	866.45	735.60	662.43	73.17	10.053
6,700.00	4,652.08	6,141.77	4,242.80	48.48	47.03	-55.97	-1,893.34	931.86	731.94	655.69	76.24	9.600
6,800.00	4,650.97	6,234.74	4,242.19	50.59	49.07	-55.96	-1,959.82	996.85	730.11	650.62	79.50	9.184
6,900.00	4,649.40	6,346.64	4,240.91	52.72	51.53	-55.91	-2,039.79	1,075.10	728.68	645.03	83.64	8.712
7,000.00	4,648.08	6,445.42	4,243.29	54.86	53.72	-56.05	-2,110.15	1,144.39	724.82	637.46	87.36	8.297
7,100.00	4,647.03	6,535.61	4,244.59	57.02	55.72	-56.10	-2,173.95	1,208.12	721.51	630.94	90.57	7.966
7,200.00	4,646.32	6,628.28	4,244.33	59.19	57.78	-56.07	-2,239.27	1,273.85	720.26	626.43	93.82	7.677
7,251.03	4,646.11	6,674.89	4,243.64	60.30	58.82	-56.03	-2,272.11	1,306.93	720.21	624.81	95.40	7.549
7,300.00	4,646.06	6,718.41	4,242.63	61.37	59.79	-55.95	-2,302.66	1,337.90	720.46	623.65	96.81	7.442
7,400.00	4,645.71	6,852.45	4,242.14	63.55	62.79	-55.88	-2,397.24	1,432.83	719.36	617.32	102.03	7.050
7,500.00	4,644.49	6,945.76	4,244.88	65.75	64.87	-56.10	-2,463.51	1,498.46	716.39	610.79	105.60	6.784
7,600.00	4,644.48	7,036.13	4,246.49	67.96	66.90	-56.05	-2,527.33	1,562.43	713.28	604.54	108.74	6.560
7,650.75	4,644.87	7,082.48	4,246.65	69.08	67.94	-56.02	-2,559.99	1,595.31	712.53	602.26	110.27	6.462
7,700.00	4,645.02	7,124.00	4,246.35	70.17	68.87	-56.01	-2,589.25	1,624.77	713.50	601.84	111.66	6.390
7,800.00	4,644.85	7,219.90	4,244.41	72.37	71.03	-56.00	-2,656.72	1,692.89	716.86	601.80	115.06	6.230
7,900.00	4,644.07	7,337.56	4,244.77	74.58	73.68	-56.26	-2,739.33	1,776.66	719.30	599.37	119.93	5.998
8,000.00	4,642.60	7,428.96	4,246.34	76.80	75.75	-56.64	-2,803.12	1,842.08	721.30	597.64	123.66	5.833
8,100.00	4,641.45	7,516.96	4,246.87	79.02	77.74	-56.93	-2,863.91	1,905.71	723.48	596.45	127.03	5.695
8,200.00	4,641.68	7,614.26	4,246.00	81.25	79.95	-56.97	-2,930.44	1,976.71	725.95	595.38	130.57	5.560
8,300.00	4,641.76	7,742.89	4,244.62	83.48	82.85	-56.86	-3,022.28	2,066.73	726.37	590.83	135.53	5.359
8,400.00	4,641.33	7,834.05	4,242.98	85.72	84.91	-56.75	-3,087.96	2,129.92	726.63	588.11	138.52	5.246
8,500.00	4,640.40	7,922.81	4,240.24	87.96	86.91	-56.58	-3,151.34	2,192.01	726.64	585.42	141.22	5.146
8,600.00	4,639.83	8,051.56	4,236.27	90.21	89.82	-56.20	-3,243.26	2,282.04	725.63	580.04	145.59	4.984
8,700.00	4,639.44	8,152.11	4,236.30	92.47	92.08	-55.92	-3,316.74	2,350.68	720.82	572.10	148.72	4.847
8,800.00	4,640.98	8,270.84	4,237.74	94.72	94.74	-55.61	-3,403.85	2,431.33	715.59	563.23	152.36	4.697
8,900.00	4,641.84	8,362.28	4,239.97	96.97	96.80	-55.61	-3,470.85	2,493.52	711.98	556.62	155.36	4.583
8,944.09	4,642.30	8,402.63	4,240.85	97.96	97.71	-55.65	-3,500.18	2,521.21	711.58	554.81	156.76	4.539
9,000.00	4,642.86	8,453.77	4,241.89	99.21	98.86	-55.74	-3,537.14	2,556.54	712.18	553.52	158.66	4.489
9,100.00	4,643.47	8,544.95	4,243.30	101.43	100.92	-55.97	-3,602.53	2,620.07	715.31	553.07	162.24	4.409
9,200.00	4,643.91	8,634.01	4,243.93	103.65	102.94	-56.21	-3,665.72	2,682.83	720.38	554.59	165.79	4.345
9,300.00	4,642.80	8,731.12	4,243.78	105.87	105.15	-56.53	-3,734.26	2,751.62	724.84	555.01	169.84	4.268
9,400.00	4,640.48	8,822.00	4,242.69	108.11	107.22	-56.78	-3,798.44	2,815.96	728.25	554.80	173.45	4.199
9,500.00	4,638.46	8,916.00	4,240.43	110.35	109.36	-56.98	-3,864.33	2,882.95	732.44	555.40	177.04	4.137
9,600.00	4,636.50	9,056.21	4,240.11	112.59	112.54	-57.27	-3,964.88	2,980.63	732.93	549.85	183.08	4.003
9,700.00	4,634.87	9,149.46	4,240.89	114.84	114.64	-57.44	-4,032.57	3,044.76	731.98	545.32	186.65	3.922

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. 048H
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. 048H	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:	MWD 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, 2694-MWD, 11175-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,713.39	4,634.69	9,161.40	4,240.92	115.14	114.91	-57.45	-4,041.20	3,053.01	731.96	544.86	187.09	3.912	
9,800.00	4,633.72	9,240.60	4,240.57	117.08	116.71	-57.53	-4,098.24	3,107.96	732.70	542.72	189.98	3.857	
9,900.00	4,633.01	9,334.58	4,239.28	119.33	118.84	-57.58	-4,165.65	3,173.43	735.00	541.68	193.31	3.802	
10,000.00	4,632.61	9,445.71	4,237.71	121.57	121.36	-57.64	-4,245.16	3,251.04	737.95	540.44	197.51	3.736	
10,100.00	4,632.33	9,550.82	4,240.86	123.82	123.75	-57.98	-4,320.21	3,324.56	738.26	536.21	202.05	3.654	
10,200.00	4,630.93	9,642.58	4,243.40	126.08	125.83	-58.27	-4,385.32	3,389.17	736.71	530.89	205.82	3.579	
10,275.34	4,630.02	9,711.17	4,244.61	127.78	127.40	-58.43	-4,433.70	3,437.77	736.25	527.73	208.52	3.531	
10,300.00	4,629.85	9,733.63	4,244.89	128.34	127.91	-58.47	-4,449.49	3,453.75	736.25	526.89	209.36	3.517	
10,400.00	4,628.70	9,826.07	4,245.34	130.60	130.02	-58.66	-4,514.20	3,519.75	737.57	524.59	212.97	3.463	
10,500.00	4,627.55	9,915.89	4,244.40	132.86	132.08	-58.79	-4,576.89	3,584.07	740.68	524.39	216.29	3.425	
10,600.00	4,626.66	10,002.89	4,242.01	135.12	134.07	-58.87	-4,637.05	3,646.87	744.72	525.67	219.04	3.400	
10,700.00	4,626.32	10,137.08	4,238.05	137.39	137.14	-58.71	-4,730.08	3,743.47	747.64	523.19	224.45	3.331	
10,787.34	4,625.71	10,217.31	4,237.42	139.38	138.97	-58.68	-4,787.19	3,799.82	747.07	520.08	226.99	3.291	
10,800.00	4,625.59	10,228.49	4,237.28	139.67	139.23	-58.68	-4,795.09	3,807.72	747.10	519.77	227.33	3.286	
10,900.00	4,624.56	10,317.62	4,235.32	141.94	141.26	-58.64	-4,857.86	3,870.97	748.49	518.43	230.06	3.253	
11,000.00	4,623.95	10,446.22	4,234.68	144.21	144.19	-58.63	-4,948.81	3,961.85	748.00	512.84	235.16	3.181	
11,100.00	4,623.92	10,541.47	4,236.59	146.49	146.37	-58.69	-5,016.45	4,028.89	745.43	506.96	238.46	3.126	
11,200.00	4,623.83	10,631.82	4,237.13	148.77	148.43	-58.69	-5,080.33	4,092.77	744.23	502.90	241.33	3.084	
11,300.00	4,624.25	10,732.54	4,235.99	151.05	150.72	-58.52	-5,151.51	4,164.03	743.71	499.43	244.28	3.045	
11,400.00	4,624.72	10,844.73	4,232.89	153.34	153.26	-58.05	-5,233.33	4,240.71	740.86	494.05	246.81	3.002	
11,500.00	4,624.82	10,932.77	4,229.43	155.62	155.25	-57.60	-5,297.51	4,300.87	738.14	490.22	247.92	2.977	
11,594.53	4,624.45	11,015.71	4,225.29	157.79	157.13	-57.22	-5,357.27	4,358.24	737.20	488.25	248.95	2.961	
11,600.00	4,624.62	11,020.48	4,225.02	157.91	157.24	-57.17	-5,360.68	4,361.56	737.17	488.23	248.94	2.961	
11,700.00	4,623.02	11,111.06	4,219.24	160.19	159.14	-56.81	-5,425.21	4,424.87	738.17	487.91	250.26	2.950 SF	
11,800.00	4,620.57	11,175.00	4,214.90	162.48	160.18	-56.59	-5,470.61	4,469.68	739.38	490.17	249.21	2.967	
11,900.00	4,617.69	11,175.00	4,214.90	164.78	160.18	-56.66	-5,470.61	4,469.68	749.83	510.21	239.61	3.129	
12,000.00	4,614.62	11,175.00	4,214.90	167.08	160.18	-56.76	-5,470.61	4,469.68	771.79	546.65	225.14	3.428	
12,100.00	4,610.86	11,175.00	4,214.90	169.38	160.18	-56.81	-5,470.61	4,469.68	804.04	596.11	207.93	3.867	
12,200.00	4,606.49	11,175.00	4,214.90	171.21	160.18	-56.82	-5,470.61	4,469.68	845.90	656.38	189.52	4.463	
12,201.00	4,606.44	11,175.00	4,214.90	171.23	160.18	-56.82	-5,470.61	4,469.68	846.37	657.03	189.33	4.470	



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	48.23	26.59	29.78	39.92					
100.00	100.00	99.93	99.93	0.13	0.17	100.17	26.75	29.75	40.02	39.72	0.30	132.099		
200.00	200.00	199.87	199.87	0.31	0.34	99.91	27.21	29.66	40.31	39.65	0.65	61.940	ES	
300.00	300.00	299.80	299.80	0.49	0.51	99.49	27.98	29.52	40.78	39.78	1.00	40.844		
400.00	400.00	399.73	399.72	0.67	0.67	98.92	29.07	29.32	41.45	40.11	1.35	30.791		
500.00	499.99	499.55	499.52	1.00	1.00	85.06	30.56	29.10	42.35	40.35	2.00	21.141		
600.00	599.99	599.56	599.52	1.36	1.36	104.85	32.36	28.91	43.53	40.81	2.72	16.003		
700.00	699.99	699.77	699.72	1.72	1.72	125.76	33.64	28.79	44.75	41.31	3.44	13.019		
800.00	799.98	799.81	799.76	2.07	2.08	140.83	34.49	28.73	45.90	41.75	4.15	11.058		
900.00	899.98	899.90	899.85	2.43	2.44	156.59	35.14	28.63	47.16	42.29	4.86	9.695		
1,000.00	999.85	999.80	999.75	2.79	2.79	158.86	35.52	28.51	51.69	46.11	5.58	9.266		
1,100.00	1,099.31	1,099.19	1,099.14	3.16	3.15	164.33	35.99	28.45	61.73	55.43	6.30	9.801		
1,200.00	1,198.17	1,198.00	1,197.94	3.54	3.50	172.73	36.45	28.42	76.67	69.65	7.02	10.928		
1,300.00	1,296.24	1,295.82	1,295.77	3.95	3.85	-179.17	36.89	28.55	96.50	88.77	7.73	12.486		
1,400.00	1,393.27	1,392.41	1,392.35	4.39	4.20	-174.82	37.44	28.88	121.23	112.80	8.44	14.371		
1,500.00	1,489.00	1,487.66	1,487.60	4.88	4.53	-176.59	38.15	29.36	150.81	141.67	9.14	16.499		
1,600.00	1,583.31	1,582.41	1,582.35	5.42	4.87	179.54	38.88	29.77	184.81	174.96	9.85	18.766		
1,700.00	1,676.66	1,676.14	1,676.07	6.01	5.21	178.02	39.30	29.80	220.93	210.38	10.55	20.938		
1,800.00	1,769.99	1,769.64	1,769.57	6.63	5.54	177.80	39.70	29.76	257.06	245.80	11.25	22.842		
1,900.00	1,863.43	1,863.18	1,863.11	7.26	5.88	177.63	40.07	29.59	292.76	280.80	11.96	24.480		
2,000.00	1,956.98	1,962.81	1,962.74	7.90	6.23	177.13	40.50	28.63	327.63	314.93	12.70	25.800		
2,100.00	2,050.92	2,069.19	2,068.99	8.54	6.60	176.42	41.00	23.58	358.67	345.20	13.47	26.631		
2,200.00	2,145.21	2,170.11	2,169.54	9.18	6.95	177.65	41.96	15.11	386.36	372.15	14.22	27.176		
2,300.00	2,239.47	2,266.69	2,265.69	9.82	7.30	176.96	43.13	6.05	413.63	398.68	14.96	27.655		
2,400.00	2,333.71	2,363.53	2,362.08	10.47	7.64	176.31	44.23	-3.10	440.96	425.26	15.70	28.082		
2,500.00	2,428.17	2,460.13	2,458.25	11.11	7.99	175.97	45.08	-12.18	467.57	451.12	16.45	28.424		
2,600.00	2,523.15	2,557.44	2,555.14	11.74	8.19	175.46	45.66	-21.19	492.57	475.53	17.04	28.903		
2,700.00	2,618.35	2,655.28	2,652.57	12.26	8.23	175.56	46.02	-30.25	516.77	499.38	17.39	29.713		
2,800.00	2,713.54	2,751.59	2,748.47	12.66	8.27	173.16	46.24	-39.01	541.07	523.49	17.58	30.777		
2,900.00	2,807.58	2,847.67	2,844.18	13.00	8.33	168.61	46.14	-47.47	568.45	550.78	17.67	32.168		
3,000.00	2,900.51	2,942.42	2,938.60	13.40	8.41	170.00	45.71	-55.39	598.73	580.93	17.80	33.637		
3,100.00	2,993.55	3,038.17	3,034.03	13.83	8.50	172.13	45.10	-63.19	629.00	611.04	17.96	35.028		
3,200.00	3,087.03	3,133.32	3,128.86	14.27	8.60	171.86	44.34	-70.89	658.13	639.99	18.14	36.274		
3,300.00	3,180.19	3,228.39	3,223.64	14.73	8.72	171.69	43.49	-78.31	688.15	669.79	18.36	37.483		
3,400.00	3,274.17	3,323.92	3,318.89	15.21	8.84	171.91	42.39	-85.52	716.06	697.46	18.60	38.490		
3,500.00	3,367.41	3,422.21	3,416.91	15.71	8.99	170.03	40.91	-92.70	745.76	726.88	18.88	39.490		
3,600.00	3,459.96	3,519.62	3,514.03	16.25	9.15	170.19	38.99	-100.02	776.68	757.49	19.19	40.467		
3,700.00	3,552.80	3,612.68	3,606.81	16.80	9.30	171.63	36.86	-106.77	806.93	787.42	19.51	41.360		
3,800.00	3,646.16	3,713.83	3,707.71	17.35	9.49	171.93	33.46	-113.12	835.91	816.05	19.86	42.080		
3,900.00	3,739.94	3,782.14	3,775.87	17.88	9.61	174.49	31.12	-116.78	864.51	844.38	20.14	42.928		
4,000.00	3,835.14	3,850.65	3,844.36	18.38	9.73	174.29	30.17	-117.88	892.87	872.47	20.40	43.765		
4,100.00	3,930.20	3,940.83	3,934.54	18.89	9.89	175.40	29.57	-118.17	923.12	902.36	20.76	44.471		
4,200.00	4,022.81	4,034.57	4,028.28	19.48	10.06	-160.59	28.97	-118.27	959.64	938.47	21.17	45.327		
4,300.00	4,111.34	4,125.96	4,119.28	20.09	10.22	-142.13	23.09	-113.67	1,000.52	978.97	21.56	46.415		
4,400.00	4,198.24	4,212.15	4,203.43	20.62	10.36	-127.54	9.26	-101.52	1,036.38	1,014.50	21.88	47.375		
4,500.00	4,283.14	4,284.76	4,271.96	21.06	10.47	-115.81	-7.81	-84.84	1,067.40	1,045.25	22.15	48.199		
4,600.00	4,364.26	4,353.88	4,334.40	21.45	10.58	-110.44	-27.63	-62.89	1,096.47	1,074.03	22.44	48.864		
4,700.00	4,437.42	4,444.33	4,410.74	21.88	10.73	-107.15	-59.53	-26.51	1,128.23	1,105.30	22.93	49.197		
4,800.00	4,499.34	4,601.29	4,523.55	22.38	11.35	-103.39	-135.12	51.22	1,160.03	1,135.85	24.19	47.962		
4,900.00	4,549.41	4,701.26	4,578.25	22.91	12.10	-99.62	-195.61	108.78	1,186.62	1,161.08	25.54	46.455		
5,000.00	4,592.10	4,793.26	4,618.81	23.42	13.04	-94.50	-254.92	166.18	1,205.34	1,178.08	27.26	44.223		
5,100.00	4,620.02	4,870.34	4,644.78	23.90	14.00	-91.70	-306.16	217.51	1,214.53	1,185.37	29.16	41.656		

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. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.00	4,632.31	4,982.79	4,665.59	24.41	15.65	-91.66	-382.84	296.75	1,217.93	1,185.71	32.22	37.795	
5,300.00	4,637.77	5,085.91	4,669.68	25.07	17.36	-91.53	-455.22	370.06	1,220.14	1,184.64	35.50	34.366	
5,400.00	4,639.18	5,170.00	4,667.79	25.92	18.87	-91.36	-513.83	430.34	1,222.60	1,184.07	38.53	31.727	
5,500.00	4,639.23	5,247.56	4,665.35	26.98	20.32	-91.19	-566.90	486.84	1,227.49	1,185.94	41.55	29.543	
5,600.00	4,638.86	5,394.38	4,663.40	28.24	23.20	-91.15	-669.21	592.11	1,230.93	1,184.26	46.67	26.375	
5,700.00	4,639.03	5,482.24	4,661.41	29.67	24.97	-90.96	-731.26	654.28	1,234.81	1,184.59	50.21	24.592	
5,800.00	4,638.74	5,603.43	4,659.84	31.24	27.48	-90.98	-816.18	740.70	1,240.47	1,185.56	54.91	22.591	
5,900.00	4,641.22	5,698.62	4,661.12	32.91	29.47	-90.91	-884.07	807.42	1,240.15	1,181.26	58.90	21.056	
5,913.79	4,641.52	5,711.00	4,661.27	33.14	29.73	-90.91	-892.86	816.14	1,240.12	1,180.70	59.42	20.869	
6,000.00	4,642.45	5,799.36	4,661.24	34.67	31.61	-90.87	-955.58	878.38	1,241.08	1,177.98	63.11	19.666	
6,100.00	4,642.17	5,879.69	4,659.56	36.51	33.34	-90.80	-1,012.21	935.32	1,244.02	1,177.32	66.71	18.649	
6,200.00	4,643.36	6,029.76	4,656.86	38.40	36.58	-90.57	-1,119.19	1,040.49	1,243.30	1,170.72	72.58	17.130	
6,300.00	4,644.93	6,130.75	4,655.35	40.35	38.77	-90.47	-1,192.73	1,109.69	1,238.80	1,161.88	76.92	16.104	
6,400.00	4,644.27	6,218.85	4,653.37	42.33	40.69	-90.42	-1,256.67	1,170.26	1,235.64	1,154.74	80.89	15.275	
6,500.00	4,646.36	6,301.29	4,654.97	44.36	42.50	-90.34	-1,315.66	1,227.81	1,232.27	1,147.56	84.71	14.548	
6,600.00	4,649.49	6,392.35	4,657.23	46.41	44.51	-90.29	-1,380.23	1,291.99	1,228.76	1,139.93	88.83	13.833	
6,700.00	4,652.08	6,484.01	4,658.60	48.48	46.55	-90.30	-1,444.72	1,357.11	1,224.73	1,131.74	92.99	13.171	
6,777.83	4,651.93	6,561.62	4,658.82	50.12	48.28	-90.32	-1,499.18	1,412.40	1,223.94	1,127.50	96.44	12.691	
6,800.00	4,650.97	6,582.82	4,658.70	50.59	48.75	-90.36	-1,514.04	1,427.51	1,224.75	1,127.35	97.40	12.575	
6,900.00	4,649.40	6,679.44	4,656.96	52.72	50.91	-90.35	-1,581.64	1,496.52	1,225.35	1,123.61	101.74	12.044	
7,000.00	4,648.08	6,780.56	4,653.43	54.86	53.18	-90.26	-1,652.27	1,568.80	1,225.11	1,118.86	106.24	11.531	
7,100.00	4,647.03	6,874.10	4,652.95	57.02	55.29	-90.28	-1,717.72	1,635.62	1,223.90	1,113.39	110.51	11.075	
7,117.38	4,646.89	6,887.71	4,653.06	57.39	55.59	-90.29	-1,727.18	1,645.40	1,223.85	1,112.69	111.16	11.010	
7,200.00	4,646.32	6,956.07	4,653.89	59.19	57.14	-90.35	-1,774.25	1,694.97	1,224.80	1,110.44	114.36	10.710	
7,300.00	4,646.06	7,063.96	4,654.33	61.37	59.59	-90.39	-1,848.16	1,773.57	1,226.52	1,107.35	119.17	10.292	
7,384.81	4,645.73	7,169.42	4,657.78	63.22	61.97	-90.56	-1,921.77	1,849.09	1,226.17	1,102.44	123.73	9.910	
7,400.00	4,645.71	7,185.03	4,658.36	63.55	62.32	-90.59	-1,932.73	1,860.10	1,225.90	1,101.46	124.43	9.852	
7,500.00	4,644.49	7,277.36	4,661.26	65.75	64.41	-90.78	-1,997.45	1,925.89	1,226.50	1,097.82	128.68	9.532	
7,600.00	4,644.48	7,430.84	4,664.20	67.96	67.87	-90.89	-2,106.64	2,033.66	1,223.32	1,088.36	134.96	9.064	
7,700.00	4,645.02	7,525.12	4,665.20	70.17	69.98	-90.95	-2,175.08	2,098.51	1,220.06	1,080.78	139.28	8.760	
7,800.00	4,644.85	7,628.48	4,664.36	72.37	72.29	-90.92	-2,250.23	2,169.45	1,219.47	1,075.62	143.86	8.477	
7,819.77	4,644.75	7,646.63	4,663.98	72.81	72.70	-90.90	-2,263.42	2,181.92	1,219.44	1,074.75	144.69	8.428	
7,900.00	4,644.07	7,715.22	4,661.99	74.58	74.24	-90.83	-2,313.02	2,229.25	1,220.08	1,072.16	147.92	8.248	
8,000.00	4,642.60	7,795.11	4,659.25	76.80	76.05	-90.76	-2,369.91	2,285.27	1,222.51	1,070.77	151.74	8.056	
8,100.00	4,641.45	7,913.71	4,654.56	79.02	78.73	-90.62	-2,454.10	2,368.67	1,223.53	1,066.66	156.88	7.799	
8,200.00	4,641.68	8,038.40	4,652.92	81.25	81.53	-90.52	-2,544.98	2,454.02	1,219.24	1,057.09	162.15	7.519	
8,300.00	4,641.76	8,143.10	4,652.60	83.48	83.88	-90.51	-2,621.79	2,525.17	1,216.53	1,049.74	166.79	7.294	
8,400.00	4,641.33	8,233.98	4,651.87	85.72	85.92	-90.51	-2,688.44	2,586.94	1,214.09	1,043.07	171.02	7.099	
8,500.00	4,640.40	8,329.25	4,649.97	87.96	88.06	-90.47	-2,757.80	2,652.23	1,210.67	1,035.28	175.39	6.903	
8,600.00	4,639.83	8,412.01	4,648.29	90.21	89.93	-90.42	-2,817.66	2,709.35	1,206.08	1,026.70	179.38	6.724	
8,700.00	4,639.44	8,505.13	4,648.29	92.47	92.04	-90.40	-2,884.14	2,774.55	1,202.99	1,019.29	183.70	6.549	
8,800.00	4,640.98	8,597.82	4,648.66	94.72	94.14	-90.36	-2,950.19	2,839.58	1,199.55	1,011.55	188.00	6.381	
8,838.14	4,641.36	8,632.00	4,648.71	95.58	94.92	-90.35	-2,974.39	2,863.72	1,199.29	1,009.70	189.59	6.326	
8,900.00	4,641.84	8,684.23	4,648.60	96.97	96.11	-90.34	-3,011.17	2,900.80	1,200.18	1,008.13	192.05	6.249	
9,000.00	4,642.86	8,769.96	4,647.83	99.21	98.07	-90.27	-3,070.93	2,962.27	1,205.06	1,009.04	196.02	6.148	
9,100.00	4,643.47	8,902.39	4,646.49	101.43	101.10	-90.16	-3,163.16	3,057.27	1,212.68	1,010.94	201.74	6.011	
9,200.00	4,643.91	8,997.58	4,647.74	103.65	103.26	-90.20	-3,231.03	3,124.01	1,218.48	1,012.41	206.07	5.913	
9,300.00	4,642.80	9,084.71	4,648.06	105.87	105.25	-90.17	-3,292.53	3,185.72	1,224.47	1,014.36	210.11	5.828	
9,400.00	4,640.48	9,174.44	4,646.56	108.11	107.30	-90.21	-3,355.24	3,249.88	1,230.26	1,016.03	214.24	5.743	
9,500.00	4,638.46	9,310.01	4,644.76	110.35	110.40	-90.27	-3,450.64	3,346.16	1,234.77	1,014.70	220.07	5.611	
9,600.00	4,636.50	9,405.79	4,646.02	112.59	112.57	-90.41	-3,518.94	3,413.29	1,237.46	1,013.01	224.45	5.513	
9,700.00	4,634.87	9,512.66	4,648.80	114.84	115.00	-90.63	-3,595.67	3,487.63	1,239.04	1,009.83	229.21	5.406	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 050H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 416-MWD, 2565-MWD, 12156-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
9,800.00	4,633.72	9,619.71	4,653.40	117.08	117.42	-90.90	-3,672.34	3,562.19	1,241.05	1,007.10	233.95	5.305	
9,900.00	4,633.01	9,746.54	4,657.29	119.33	120.28	-91.12	-3,765.18	3,648.51	1,241.14	1,001.91	239.23	5.188	
9,968.28	4,632.72	9,810.44	4,659.27	120.86	121.72	-91.23	-3,812.25	3,691.68	1,240.93	998.75	242.18	5.124	
10,000.00	4,632.61	9,838.30	4,659.43	121.57	122.34	-91.24	-3,832.68	3,710.62	1,241.03	997.53	243.50	5.097	
10,100.00	4,632.33	9,905.55	4,658.51	123.82	123.87	-91.20	-3,881.45	3,756.91	1,242.00	995.03	246.97	5.029	
10,200.00	4,630.93	9,973.57	4,657.16	126.08	125.42	-91.19	-3,929.21	3,805.33	1,243.71	993.42	250.29	4.969	
10,300.00	4,629.85	10,108.41	4,653.82	128.34	128.50	-91.10	-4,023.51	3,901.63	1,245.82	989.63	256.19	4.863	
10,395.15	4,628.79	10,212.14	4,654.31	130.49	130.86	-91.17	-4,098.53	3,973.26	1,245.09	984.30	260.79	4.774	
10,400.00	4,628.70	10,216.25	4,654.38	130.60	130.95	-91.18	-4,101.49	3,976.12	1,245.07	984.09	260.99	4.771	
10,500.00	4,627.55	10,359.52	4,653.45	132.86	134.18	-91.21	-4,206.38	4,073.64	1,243.83	977.09	266.74	4.663	
10,600.00	4,626.66	10,450.76	4,650.79	135.12	136.23	-91.13	-4,273.92	4,134.92	1,240.38	969.34	271.04	4.576	
10,700.00	4,626.32	10,545.42	4,649.76	137.39	138.36	-91.10	-4,343.78	4,198.79	1,235.33	959.89	275.44	4.485	
10,800.00	4,625.59	10,636.96	4,650.79	139.67	140.42	-91.19	-4,410.89	4,261.03	1,231.46	951.73	279.73	4.402	
10,900.00	4,624.56	10,739.05	4,648.99	141.94	142.73	-91.16	-4,485.67	4,330.51	1,228.32	943.99	284.33	4.320	
11,000.00	4,623.95	10,830.29	4,646.76	144.21	144.79	-91.07	-4,552.32	4,392.77	1,224.45	935.83	288.62	4.242	
11,100.00	4,623.92	10,911.73	4,646.15	146.49	146.64	-91.04	-4,611.23	4,449.00	1,220.79	928.21	292.58	4.173	
11,200.00	4,623.83	10,992.00	4,645.86	148.77	148.47	-91.04	-4,668.07	4,505.67	1,219.55	923.13	296.41	4.114	
11,246.43	4,623.88	11,021.44	4,645.81	149.83	149.14	-91.03	-4,688.61	4,526.76	1,219.49	921.67	297.82	4.095	
11,300.00	4,624.25	11,067.52	4,646.18	151.05	150.20	-91.03	-4,720.59	4,559.94	1,219.45	919.51	299.94	4.066	
11,400.00	4,624.72	11,186.84	4,646.64	153.34	152.94	-91.03	-4,803.59	4,645.65	1,219.10	913.71	305.39	3.992	
11,500.00	4,624.82	11,296.38	4,643.56	155.62	155.45	-90.88	-4,880.98	4,723.11	1,216.55	906.18	310.37	3.920	
11,600.00	4,624.62	11,385.13	4,642.65	157.91	157.48	-90.85	-4,943.56	4,786.02	1,214.57	900.07	314.50	3.862	
11,662.69	4,623.85	11,440.99	4,643.00	159.34	158.76	-90.90	-4,982.67	4,825.91	1,214.31	897.23	317.08	3.830	
11,700.00	4,623.02	11,474.47	4,643.34	160.19	159.53	-90.95	-5,006.01	4,849.91	1,214.79	896.18	318.61	3.813	
11,800.00	4,620.57	11,567.16	4,645.07	162.48	161.66	-91.16	-5,070.27	4,916.68	1,214.98	892.13	322.85	3.763	
11,900.00	4,617.69	11,668.79	4,646.75	164.78	164.00	-91.40	-5,140.79	4,989.85	1,213.67	886.15	327.52	3.706	
12,000.00	4,614.62	11,747.00	4,647.72	167.08	165.80	-91.60	-5,194.37	5,046.81	1,211.96	880.95	331.01	3.661	
12,100.00	4,610.86	11,863.57	4,647.76	169.38	168.49	-91.86	-5,274.33	5,131.62	1,208.47	872.00	336.48	3.592	
12,200.00	4,606.49	11,946.75	4,647.09	171.21	170.41	-92.02	-5,331.23	5,192.29	1,204.29	864.60	339.68	3.545	
12,201.00	4,606.44	11,947.62	4,647.09	171.23	170.43	-92.03	-5,331.83	5,192.92	1,204.25	864.54	339.71	3.545 SF	



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 051H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 415-MWD, 2640-MWD, 12451-MWD													Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	48.04	53.55	59.56	80.09					
100.00	100.00	99.82	99.82	0.13	0.17	100.00	53.74	59.53	80.22	79.91	0.30	264.884 ES		
200.00	200.00	199.64	199.64	0.31	0.34	99.82	54.32	59.47	80.59	79.94	0.65	123.898		
300.00	300.00	299.45	299.45	0.49	0.51	99.53	55.28	59.36	81.22	80.22	1.00	81.371		
400.00	400.00	399.26	399.25	0.67	0.67	99.13	56.62	59.20	82.10	80.76	1.35	61.001		
500.00	499.99	499.24	499.21	1.00	1.00	85.50	58.28	58.93	83.07	81.07	2.00	41.448		
600.00	599.99	599.23	599.18	1.36	1.36	105.51	60.07	58.54	84.10	81.38	2.72	30.903		
700.00	699.99	699.31	699.25	1.72	1.72	126.23	61.74	58.21	85.44	82.00	3.44	24.851		
800.00	799.98	799.44	799.36	2.07	2.08	140.79	63.30	57.77	86.82	82.67	4.15	20.907		
900.00	899.98	899.58	899.50	2.43	2.44	156.19	64.57	57.45	88.34	83.48	4.87	18.154		
1,000.00	999.85	999.76	999.67	2.79	2.80	157.35	65.54	56.99	93.04	87.46	5.58	16.667		
1,100.00	1,099.31	1,099.35	1,099.26	3.16	3.15	161.48	66.24	56.42	102.74	96.44	6.30	16.307 SF		
1,200.00	1,198.17	1,198.23	1,198.13	3.54	3.51	169.27	66.81	55.97	117.28	110.26	7.02	16.709		
1,300.00	1,296.24	1,296.35	1,296.25	3.95	3.86	177.52	67.28	55.59	136.66	128.93	7.73	17.671		
1,400.00	1,393.27	1,393.70	1,393.60	4.39	4.20	-177.57	67.63	55.19	160.75	152.31	8.44	19.037		
1,500.00	1,489.00	1,489.56	1,489.46	4.88	4.54	-178.77	67.77	54.72	189.32	180.17	9.15	20.693		
1,600.00	1,583.31	1,577.99	1,577.89	5.42	4.85	177.69	68.45	54.87	223.19	213.36	9.83	22.715		
1,700.00	1,676.66	1,658.24	1,658.04	6.01	5.13	176.16	71.56	56.98	263.21	252.77	10.44	25.201		
1,800.00	1,769.99	1,734.28	1,733.70	6.63	5.40	175.78	77.56	61.42	307.84	296.83	11.01	27.960		
1,900.00	1,863.43	1,805.00	1,803.75	7.26	5.66	175.36	85.35	67.25	355.80	344.28	11.52	30.892		
2,000.00	1,956.98	1,883.15	1,880.71	7.90	5.95	174.65	96.06	75.49	406.44	394.35	12.09	33.610		
2,100.00	2,050.92	1,953.70	1,949.73	8.54	6.23	174.17	107.48	84.62	459.05	446.45	12.59	36.452		
2,200.00	2,145.21	2,020.21	2,014.30	9.18	6.49	176.24	119.77	94.76	513.67	500.62	13.05	39.354		
2,300.00	2,239.47	2,087.00	2,078.47	9.82	6.78	176.21	133.76	106.88	571.51	557.99	13.52	42.276		
2,400.00	2,333.71	2,143.57	2,132.26	10.47	7.03	176.13	146.98	118.34	632.05	618.17	13.88	45.527		
2,500.00	2,428.17	2,207.75	2,192.74	11.11	7.34	176.24	163.49	132.09	694.23	679.89	14.34	48.428		
2,600.00	2,523.15	2,276.00	2,256.72	11.74	7.68	176.06	181.80	147.22	756.27	741.44	14.83	50.986		
2,700.00	2,618.35	2,352.66	2,328.38	12.26	8.08	176.50	202.72	164.66	818.36	802.97	15.39	53.177		
2,800.00	2,713.54	2,440.72	2,410.72	12.66	8.55	173.90	227.00	184.31	880.40	864.45	15.95	55.195		
2,900.00	2,807.58	2,530.06	2,494.60	13.00	9.04	168.33	251.79	202.47	943.83	927.41	16.42	57.466		
3,000.00	2,900.51	2,614.47	2,574.15	13.40	9.41	169.73	274.81	218.79	1,008.68	991.91	16.77	60.157		
3,100.00	2,993.55	2,692.82	2,648.14	13.83	9.63	172.19	295.84	233.70	1,073.07	1,056.14	16.92	63.407		
3,200.00	3,087.03	2,771.42	2,722.39	14.27	9.83	171.80	316.72	248.84	1,136.57	1,119.53	17.05	66.672		
3,300.00	3,180.19	2,854.49	2,800.90	14.73	10.06	171.45	339.13	264.14	1,200.43	1,183.20	17.23	69.673		
3,400.00	3,274.17	2,983.96	2,923.92	15.21	10.45	171.44	373.53	285.15	1,261.23	1,243.57	17.66	71.416		
3,500.00	3,367.41	3,131.18	3,065.37	15.71	10.89	168.68	410.74	301.79	1,319.88	1,301.68	18.21	72.497		
3,600.00	3,459.96	3,499.91	3,429.10	16.25	11.67	168.65	463.01	318.56	1,370.65	1,351.21	19.44	70.505		
3,700.00	3,552.80	3,632.91	3,562.09	16.80	11.81	170.29	464.16	317.68	1,407.11	1,387.30	19.81	71.034		

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. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Pad (48,49,50,51 & 52) - Greater Lybrook Unit No. 052H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 415-MWD, 2789-MWD, 13558-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	48.21	66.67	74.59	100.04				
100.00	100.00	100.07	100.07	0.13	0.17	100.22	66.71	74.51	100.02	99.72	0.30	330.089	
200.00	200.00	200.14	200.14	0.31	0.34	100.20	66.83	74.26	99.96	99.31	0.65	153.585	
300.00	300.00	300.21	300.20	0.49	0.51	100.17	67.04	73.84	99.85	98.86	1.00	99.988	
400.00	400.00	400.27	400.27	0.67	0.67	100.12	67.33	73.26	99.71	98.36	1.35	74.050	
500.00	499.99	500.26	500.26	1.00	1.01	86.84	67.84	72.43	99.48	97.47	2.01	49.576	
589.12	589.11	589.36	589.35	1.32	1.32	105.08	68.51	71.53	99.34	96.70	2.65	37.555	
600.00	599.99	600.24	600.22	1.36	1.36	107.12	68.58	71.43	99.33	96.60	2.72	36.475 CC	
700.00	699.99	700.16	700.13	1.72	1.72	127.93	69.45	70.38	99.57	96.13	3.44	28.955	
800.00	799.98	800.12	800.09	2.07	2.08	142.65	70.31	69.47	100.11	95.96	4.15	24.108	
900.00	899.98	900.29	900.25	2.43	2.44	158.10	70.97	68.54	100.77	95.90	4.87	20.706 ES	
1,000.00	999.85	1,000.05	1,000.00	2.79	2.79	159.36	71.24	67.98	104.92	99.35	5.57	18.825	
1,100.00	1,099.31	1,099.25	1,099.19	3.16	3.12	164.52	69.87	69.18	114.70	108.43	6.27	18.299 SF	
1,200.00	1,198.17	1,198.18	1,198.07	3.54	3.45	173.44	67.73	71.06	129.54	122.58	6.96	18.613	
1,300.00	1,296.24	1,296.19	1,296.04	3.95	3.78	-177.46	65.35	72.87	149.05	141.40	7.65	19.477	
1,400.00	1,393.27	1,390.91	1,390.72	4.39	4.10	-172.08	63.56	74.83	173.68	165.34	8.34	20.826	
1,500.00	1,489.00	1,482.79	1,482.56	4.88	4.42	-173.26	63.42	77.61	204.53	195.52	9.02	22.681	
1,600.00	1,583.31	1,571.99	1,571.69	5.42	4.73	-177.23	65.04	80.78	241.36	231.67	9.69	24.914	
1,700.00	1,676.66	1,655.92	1,655.46	6.01	5.02	-179.37	68.86	84.10	282.66	272.34	10.32	27.384	
1,800.00	1,769.99	1,733.76	1,732.93	6.63	5.30	179.67	75.04	88.49	327.13	316.23	10.90	30.002	
1,900.00	1,863.43	1,804.00	1,802.49	7.26	5.55	178.91	82.57	94.54	375.02	363.61	11.41	32.861	
2,000.00	1,956.98	1,875.81	1,873.15	7.90	5.82	177.97	92.09	103.07	426.27	414.34	11.93	35.729	
2,100.00	2,050.92	1,943.98	1,939.69	8.54	6.08	177.30	102.91	113.20	479.92	467.51	12.41	38.671	
2,200.00	2,145.21	2,009.96	2,003.55	9.18	6.35	179.21	115.13	124.35	535.56	522.70	12.86	41.639	
2,300.00	2,239.47	2,071.46	2,062.50	9.82	6.61	178.99	128.26	135.98	594.11	580.83	13.28	44.745	
2,400.00	2,333.71	2,129.91	2,117.89	10.47	6.88	178.67	142.50	147.99	655.43	641.76	13.67	47.954	
2,500.00	2,428.17	2,181.00	2,165.72	11.11	7.12	178.57	156.76	158.90	718.80	704.82	13.98	51.434	
2,600.00	2,523.15	2,251.40	2,230.99	11.74	7.48	178.01	178.10	174.45	782.61	768.11	14.50	53.959	
2,700.00	2,618.35	2,321.08	2,295.18	12.26	7.85	178.15	200.06	190.32	846.97	831.98	14.99	56.498	
2,800.00	2,713.54	2,395.99	2,364.10	12.66	8.27	175.29	223.71	207.73	911.73	896.31	15.43	59.097	
2,900.00	2,807.58	2,474.77	2,436.68	13.00	8.72	169.51	248.13	226.21	978.81	962.99	15.82	61.879	
3,000.00	2,900.51	2,557.46	2,513.12	13.40	9.21	170.88	273.18	245.35	1,047.51	1,031.23	16.28	64.349	
3,100.00	2,993.55	2,636.88	2,586.77	13.83	9.69	173.33	296.87	263.28	1,115.58	1,098.87	16.71	66.773	
3,200.00	3,087.03	2,718.03	2,662.20	14.27	10.05	172.85	320.84	281.24	1,182.39	1,165.38	17.00	69.534	
3,300.00	3,180.19	2,801.05	2,739.54	14.73	10.40	172.46	345.02	299.28	1,249.35	1,232.05	17.30	72.207	
3,400.00	3,274.17	2,898.21	2,830.44	15.21	10.69	172.53	372.93	319.24	1,313.72	1,296.17	17.55	74.868	
3,500.00	3,367.41	2,994.16	2,920.71	15.71	10.99	169.90	399.64	337.79	1,378.35	1,360.53	17.82	77.343	

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. 048H
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. 048H	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:	MWD 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 (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
11,000.00	4,623.95	4,551.00	4,206.24	144.21	25.86	-32.53	-6,040.62	4,587.75	1,345.11	1,275.83	69.28	19.414		
11,100.00	4,623.92	4,567.89	4,220.22	146.49	25.91	-33.07	-6,050.08	4,588.17	1,253.97	1,183.33	70.64	17.751		
11,200.00	4,623.83	4,583.00	4,232.69	148.77	25.95	-33.44	-6,058.59	4,588.83	1,163.73	1,091.47	72.26	16.105		
11,300.00	4,624.25	4,603.48	4,249.51	151.05	26.01	-32.52	-6,070.19	4,590.21	1,074.53	1,000.67	73.86	14.549		
11,400.00	4,624.72	4,623.15	4,265.60	153.34	26.05	-32.82	-6,081.35	4,592.16	986.46	910.78	75.68	13.035		
11,500.00	4,624.82	4,646.00	4,284.17	155.62	26.10	-33.18	-6,094.31	4,595.15	899.46	821.84	77.62	11.588		
11,600.00	4,624.62	4,677.00	4,309.23	157.91	26.15	-35.26	-6,111.76	4,600.46	814.03	734.37	79.66	10.219		
11,700.00	4,623.02	4,695.54	4,324.14	160.19	26.17	-36.98	-6,122.07	4,604.36	730.13	647.27	82.86	8.812		
11,800.00	4,620.57	4,722.25	4,345.46	162.48	26.19	-37.65	-6,136.68	4,611.07	648.00	561.66	86.35	7.505		
11,900.00	4,617.69	4,752.63	4,369.45	164.78	26.20	-38.55	-6,152.90	4,620.27	568.07	477.66	90.41	6.283		
12,000.00	4,614.62	4,787.87	4,397.02	167.08	26.19	-40.27	-6,170.93	4,632.76	490.80	395.48	95.32	5.149		
12,100.00	4,610.86	4,825.00	4,425.47	169.38	26.17	-43.02	-6,189.50	4,647.73	416.83	315.28	101.55	4.105		
12,200.00	4,606.49	4,866.00	4,455.62	171.21	26.14	-47.01	-6,210.28	4,666.15	348.03	237.46	110.57	3.148		
12,201.00	4,606.44	4,866.00	4,455.62	171.23	26.14	-47.01	-6,210.28	4,666.15	347.38	236.71	110.67	3.139 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. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 5231-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	3.00	3.00	0.00	0.01	-6.34	171.08	-19.00	172.13				
100.00	100.00	102.91	102.91	0.13	0.17	45.65	171.09	-19.14	172.10	171.80	0.31	560.061	
200.00	200.00	202.82	202.82	0.31	0.34	45.57	171.12	-19.55	172.02	171.37	0.65	262.881	
300.00	300.00	302.73	302.73	0.49	0.51	45.44	171.18	-20.22	171.89	170.89	1.00	171.640	
400.00	400.00	402.64	402.63	0.67	0.68	45.26	171.25	-21.16	171.70	170.35	1.35	127.326	
500.00	499.99	502.55	502.53	1.00	0.98	31.83	171.32	-22.43	171.35	169.37	1.98	86.568	
567.12	567.11	569.04	569.02	1.24	1.21	46.12	171.64	-22.33	171.19	168.74	2.45	69.929 CC	
600.00	599.99	601.85	601.83	1.36	1.32	52.76	171.94	-21.69	171.20	168.52	2.68	63.943	
700.00	699.99	702.19	702.13	1.72	1.66	75.00	172.75	-19.25	171.34	167.97	3.37	50.775	
800.00	799.98	802.24	802.14	2.07	2.00	91.23	173.51	-16.72	171.77	167.69	4.08	42.137	
900.00	899.98	902.41	902.30	2.43	2.35	108.05	174.03	-14.71	172.37	167.59	4.78	36.047 ES	
1,000.00	999.85	1,002.04	1,001.91	2.79	2.70	110.69	174.57	-13.10	174.43	168.94	5.49	31.764	
1,100.00	1,099.31	1,100.43	1,100.27	3.16	3.05	116.83	175.27	-10.97	179.26	173.05	6.21	28.874	
1,200.00	1,198.17	1,194.12	1,193.76	3.54	3.39	128.20	176.81	-5.24	189.56	182.64	6.92	27.375 SF	
1,300.00	1,296.24	1,284.35	1,283.34	3.95	3.73	141.71	179.99	5.02	209.22	201.59	7.64	27.401	
1,400.00	1,393.27	1,371.00	1,368.74	4.39	4.06	152.66	184.02	19.05	239.12	230.79	8.32	28.724	
1,500.00	1,489.00	1,452.61	1,448.45	4.88	4.40	157.07	188.42	35.96	278.49	269.52	8.97	31.038	
1,600.00	1,583.31	1,528.47	1,521.73	5.42	4.74	158.10	192.90	55.04	326.01	316.44	9.57	34.062	
1,700.00	1,676.66	1,600.00	1,590.06	6.01	5.08	160.77	197.37	75.71	379.61	369.50	10.12	37.522	
1,800.00	1,769.99	1,664.51	1,650.97	6.63	5.42	163.87	201.94	96.45	437.24	426.64	10.60	41.259	
1,900.00	1,863.43	1,726.92	1,709.18	7.26	5.77	166.41	207.13	118.33	498.32	487.26	11.06	45.072	
2,000.00	1,956.98	1,788.00	1,765.45	7.90	6.14	168.26	212.62	141.45	562.14	550.64	11.50	48.862	
2,100.00	2,050.92	1,858.70	1,830.07	8.54	6.60	170.37	219.05	169.39	626.96	614.89	12.06	51.971	
2,200.00	2,145.21	1,929.38	1,894.53	9.18	7.08	174.72	225.32	197.71	691.95	679.31	12.63	54.779	
2,300.00	2,239.47	2,000.43	1,959.17	9.82	7.58	176.53	231.69	226.52	757.85	744.63	13.22	57.333	
2,400.00	2,333.71	2,074.75	2,026.73	10.47	8.11	178.11	238.18	256.78	824.18	810.33	13.85	59.511	
2,500.00	2,428.17	2,148.80	2,094.07	11.11	8.66	179.70	244.53	286.93	890.23	875.75	14.48	61.471	
2,600.00	2,523.15	2,223.63	2,162.12	11.74	9.22	-179.20	250.94	317.38	955.25	940.12	15.12	63.165	
2,700.00	2,618.35	2,297.14	2,228.95	12.26	9.78	-177.59	257.22	347.34	1,019.94	1,004.22	15.72	64.900	
2,800.00	2,713.54	2,369.15	2,294.30	12.66	10.33	-179.05	263.25	376.98	1,085.00	1,068.82	16.18	67.055	
2,900.00	2,807.58	2,439.70	2,358.27	13.00	10.88	176.46	269.16	406.16	1,153.02	1,136.47	16.54	69.701	
3,000.00	2,900.51	2,515.69	2,427.21	13.40	11.48	178.97	275.53	437.47	1,223.32	1,206.34	16.99	72.010	
3,100.00	2,993.55	2,598.97	2,503.05	13.83	12.13	-177.71	282.43	471.18	1,293.06	1,275.56	17.50	73.888	
3,200.00	3,087.03	2,684.10	2,581.01	14.27	12.69	-177.37	289.54	504.62	1,361.19	1,343.27	17.93	75.931	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 726H - Sidetrack 01 - Surveys Sidetrack 01												Offset Site Error:	0.00 ft
Survey Program: 432-MWD, 2692-MWD, 4630-MWD, 14739-MWD												Offset Well Error:	0.00 ft
Reference												Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	3.00	3.00	0.00	0.01	-6.34	171.08	-19.00	172.13				
100.00	100.00	102.91	102.91	0.13	0.17	45.65	171.09	-19.14	172.10	171.80	0.31	560.061	
200.00	200.00	202.82	202.82	0.31	0.34	45.57	171.12	-19.55	172.02	171.37	0.65	262.881	
300.00	300.00	302.73	302.73	0.49	0.51	45.44	171.18	-20.22	171.89	170.89	1.00	171.640	
400.00	400.00	402.64	402.63	0.67	0.68	45.26	171.25	-21.16	171.70	170.35	1.35	127.326	
500.00	499.99	502.55	502.53	1.00	0.98	31.83	171.32	-22.43	171.35	169.37	1.98	86.568	
567.12	567.11	569.04	569.02	1.24	1.21	46.12	171.64	-22.33	171.19	168.74	2.45	69.929 CC	
600.00	599.99	601.85	601.83	1.36	1.32	52.76	171.94	-21.69	171.20	168.52	2.68	63.943	
700.00	699.99	702.19	702.13	1.72	1.66	75.00	172.75	-19.25	171.34	167.97	3.37	50.775	
800.00	799.98	802.24	802.14	2.07	2.00	91.23	173.51	-16.72	171.77	167.69	4.08	42.137	
900.00	899.98	902.41	902.30	2.43	2.35	108.05	174.03	-14.71	172.37	167.59	4.78	36.047 ES	
1,000.00	999.85	1,002.04	1,001.91	2.79	2.70	110.69	174.57	-13.10	174.43	168.94	5.49	31.764	
1,100.00	1,099.31	1,100.43	1,100.27	3.16	3.05	116.83	175.27	-10.97	179.26	173.05	6.21	28.874	
1,200.00	1,198.17	1,194.12	1,193.76	3.54	3.39	128.20	176.81	-5.24	189.56	182.64	6.92	27.375 SF	
1,300.00	1,296.24	1,284.35	1,283.34	3.95	3.73	141.71	179.99	5.02	209.22	201.59	7.64	27.401	
1,400.00	1,393.27	1,371.00	1,368.74	4.39	4.06	152.66	184.02	19.05	239.12	230.79	8.32	28.724	
1,500.00	1,489.00	1,452.61	1,448.45	4.88	4.40	157.07	188.42	35.96	278.49	269.52	8.97	31.037	
1,600.00	1,583.31	1,528.47	1,521.73	5.42	4.74	158.10	192.90	55.04	326.01	316.44	9.57	34.062	
1,700.00	1,676.66	1,600.00	1,590.06	6.01	5.08	160.77	197.37	75.71	379.61	369.50	10.12	37.522	
1,800.00	1,769.99	1,664.51	1,650.97	6.63	5.42	163.87	201.94	96.45	437.24	426.64	10.60	41.259	
1,900.00	1,863.43	1,726.92	1,709.18	7.26	5.77	166.41	207.13	118.33	498.32	487.26	11.06	45.072	
2,000.00	1,956.98	1,788.00	1,765.45	7.90	6.14	168.26	212.62	141.45	562.14	550.64	11.50	48.862	
2,100.00	2,050.92	1,858.70	1,830.07	8.54	6.60	170.37	219.05	169.39	626.96	614.89	12.06	51.971	
2,200.00	2,145.21	1,929.38	1,894.53	9.18	7.08	174.72	225.32	197.71	691.95	679.31	12.63	54.779	
2,300.00	2,239.47	2,000.43	1,959.17	9.82	7.58	176.53	231.69	226.52	757.85	744.63	13.22	57.333	
2,400.00	2,333.71	2,074.75	2,026.73	10.47	8.11	178.11	238.18	256.78	824.18	810.33	13.85	59.511	
2,500.00	2,428.17	2,148.80	2,094.07	11.11	8.66	179.70	244.53	286.93	890.23	875.75	14.48	61.471	
2,600.00	2,523.15	2,223.63	2,162.12	11.74	9.22	-179.20	250.94	317.38	955.25	940.12	15.12	63.165	
2,700.00	2,618.35	2,297.14	2,228.95	12.26	9.78	-177.59	257.22	347.34	1,019.94	1,004.22	15.72	64.899	
2,800.00	2,713.54	2,369.15	2,294.30	12.66	10.33	-179.05	263.25	376.98	1,085.00	1,068.82	16.18	67.055	
2,900.00	2,807.58	2,439.70	2,358.27	13.00	10.88	176.46	269.16	406.16	1,153.02	1,136.47	16.54	69.700	
3,000.00	2,900.51	2,515.69	2,427.21	13.40	11.48	178.97	275.53	437.47	1,223.32	1,206.34	16.99	72.009	
3,100.00	2,993.55	2,598.97	2,503.05	13.83	12.13	-177.71	282.43	471.18	1,293.06	1,275.56	17.50	73.888	
3,200.00	3,087.03	2,684.10	2,581.01	14.27	12.69	-177.37	289.54	504.62	1,361.19	1,343.27	17.93	75.931	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 728H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2695-MWD, 13517-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	2.99	2.99	0.00	0.01	-12.08	157.60	-33.74	161.17				
100.00	100.00	102.60	102.60	0.13	0.17	40.13	157.83	-33.27	161.24	160.93	0.31	520.709	
200.00	200.00	202.19	202.17	0.31	0.34	40.70	158.49	-31.91	161.45	160.79	0.66	245.014	
300.00	300.00	301.73	301.69	0.49	0.51	41.65	159.59	-29.67	161.82	160.81	1.01	160.520	
400.00	400.00	401.21	401.10	0.67	0.69	42.95	161.12	-26.54	162.41	161.06	1.36	119.666	
500.00	499.99	499.90	499.72	1.00	0.99	31.14	163.12	-23.38	163.37	161.38	1.99	82.231	
600.00	599.99	600.05	599.82	1.36	1.34	52.54	165.53	-21.57	164.85	162.14	2.70	61.040	
700.00	699.99	703.82	703.59	1.72	1.69	74.05	166.19	-21.40	165.04	161.63	3.41	48.422	
800.00	799.98	805.05	804.78	2.07	2.03	88.63	165.11	-23.59	164.09	159.99	4.10	40.014	
900.00	899.98	905.30	904.99	2.43	2.37	103.86	163.57	-26.13	163.03	158.23	4.80	33.991	
953.48	953.42	958.82	958.49	2.62	2.55	104.59	162.73	-27.42	162.85	157.68	5.17	31.489	
1,000.00	999.85	1,005.62	1,005.27	2.79	2.72	105.27	161.95	-28.49	162.93	157.42	5.50	29.620 ES	
1,100.00	1,099.31	1,105.51	1,105.12	3.16	3.06	110.43	160.10	-30.61	164.36	158.14	6.22	26.441	
1,200.00	1,198.17	1,204.12	1,203.70	3.54	3.41	120.51	158.40	-32.14	169.12	162.18	6.94	24.360	
1,300.00	1,296.24	1,302.20	1,301.75	3.95	3.75	133.16	156.87	-30.92	179.47	171.79	7.68	23.374 SF	
1,400.00	1,393.27	1,395.49	1,394.84	4.39	4.08	144.25	155.45	-25.12	197.45	189.05	8.40	23.505	
1,500.00	1,489.00	1,482.93	1,481.74	4.88	4.39	149.58	155.02	-15.47	224.56	215.47	9.09	24.703	
1,600.00	1,583.31	1,569.45	1,567.16	5.42	4.71	152.35	155.14	-1.73	259.95	250.18	9.76	26.630	
1,700.00	1,676.66	1,652.86	1,648.87	6.01	5.04	156.79	154.26	14.95	300.90	290.50	10.40	28.933	
1,800.00	1,769.99	1,731.07	1,724.85	6.63	5.36	161.49	152.87	33.40	345.83	334.84	10.99	31.464	
1,900.00	1,863.43	1,803.50	1,794.50	7.26	5.68	165.30	151.58	53.25	394.83	383.30	11.53	34.252	
2,000.00	1,956.98	1,870.22	1,857.77	7.90	6.01	168.14	150.48	74.34	447.92	435.91	12.01	37.288	
2,100.00	2,050.92	1,940.30	1,923.35	8.54	6.38	171.02	149.27	99.02	503.76	491.23	12.54	40.184	
2,200.00	2,145.21	2,013.25	1,991.03	9.18	6.79	176.14	147.75	126.20	561.25	548.14	13.10	42.834	
2,300.00	2,239.47	2,090.79	2,062.80	9.82	7.25	178.79	146.18	155.51	620.19	606.45	13.74	45.130	
2,400.00	2,333.71	2,174.93	2,140.88	10.47	7.77	-178.89	144.31	186.82	679.42	664.95	14.47	46.952	
2,500.00	2,428.17	2,254.44	2,214.77	11.11	8.28	-176.84	142.34	216.11	738.28	723.13	15.16	48.713	
2,600.00	2,523.15	2,336.43	2,290.97	11.74	8.81	-175.30	140.09	246.27	796.08	780.21	15.87	50.154	
2,700.00	2,618.35	2,418.50	2,367.28	12.26	9.35	-173.30	137.57	276.38	853.44	836.90	16.55	51.581	
2,800.00	2,713.54	2,508.93	2,451.53	12.66	9.95	-174.15	134.69	309.11	910.69	893.52	17.18	53.013	
2,900.00	2,807.58	2,604.07	2,540.78	13.00	10.57	-177.77	131.71	341.94	970.02	952.26	17.75	54.638	
3,000.00	2,900.51	2,687.92	2,619.86	13.40	10.94	-175.20	129.37	369.71	1,031.18	1,013.11	18.06	57.085	
3,100.00	2,993.55	2,769.34	2,696.85	13.83	11.19	-172.14	127.39	396.11	1,091.82	1,073.58	18.24	59.866	
3,200.00	3,087.03	2,839.62	2,763.32	14.27	11.41	-171.90	125.92	418.90	1,151.66	1,133.30	18.36	62.717	
3,300.00	3,180.19	2,915.69	2,835.08	14.73	11.67	-171.65	124.79	444.13	1,213.12	1,194.57	18.55	65.390	
3,400.00	3,274.17	2,999.00	2,913.96	15.21	11.96	-170.98	123.64	470.91	1,271.98	1,253.18	18.80	67.664	
3,500.00	3,367.41	3,055.89	2,967.71	15.71	12.18	-172.72	123.09	489.50	1,333.38	1,314.44	18.94	70.399	
3,600.00	3,459.96	3,112.24	3,020.51	16.25	12.40	-172.40	123.00	509.20	1,398.07	1,378.97	19.10	73.184	

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. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 729H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2701-MWD, 12316-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	3.04	3.04	0.00	0.01	-33.76	117.52	-78.56	141.36				
100.00	100.00	104.44	104.44	0.13	0.18	18.21	117.00	-78.38	140.76	140.45	0.31	451.873	
200.00	200.00	205.81	205.80	0.31	0.35	18.08	115.50	-77.86	139.03	138.37	0.66	209.853	
300.00	300.00	307.14	307.09	0.49	0.53	17.84	113.01	-76.99	136.16	135.15	1.01	134.242	
400.00	400.00	408.38	408.26	0.67	0.70	17.50	109.55	-75.79	132.16	130.80	1.37	96.623	
500.00	499.99	508.65	508.44	1.00	1.03	3.84	105.35	-74.41	127.22	125.21	2.01	63.155	
600.00	599.99	608.25	607.94	1.36	1.39	23.86	101.26	-72.97	122.14	119.41	2.73	44.745	
700.00	699.99	707.64	707.25	1.72	1.75	44.51	97.28	-71.96	117.52	114.08	3.44	34.127	
800.00	799.98	806.95	806.49	2.07	2.12	59.24	93.74	-71.11	113.60	109.44	4.16	27.331	
900.00	899.98	906.29	905.78	2.43	2.48	74.82	90.65	-70.64	110.47	105.60	4.87	22.693	
1,000.00	999.85	1,005.45	1,004.91	2.79	2.83	77.33	88.07	-70.37	107.08	101.50	5.58	19.184	
1,100.00	1,099.31	1,106.61	1,106.02	3.16	3.20	84.85	85.28	-70.31	103.01	96.70	6.31	16.324	
1,200.00	1,198.17	1,210.16	1,209.38	3.54	3.58	99.24	79.27	-68.85	97.56	90.51	7.06	13.825	
1,300.00	1,296.24	1,312.27	1,310.91	3.95	3.98	118.19	68.99	-65.52	93.14	85.33	7.80	11.933	
1,335.70	1,331.01	1,348.15	1,346.48	4.11	4.12	124.93	64.48	-64.09	92.71	84.63	8.08	11.479 CC, ES	
1,400.00	1,393.27	1,412.38	1,410.01	4.39	4.38	136.89	55.51	-61.21	94.32	85.76	8.56	11.019 SF	
1,500.00	1,489.00	1,511.97	1,508.11	4.88	4.80	150.62	39.12	-56.10	102.80	93.48	9.32	11.029	
1,600.00	1,583.31	1,610.89	1,604.78	5.42	5.25	161.55	19.08	-50.06	117.90	107.79	10.11	11.667	
1,700.00	1,676.66	1,708.79	1,699.40	6.01	5.72	172.81	-5.12	-43.41	138.21	127.26	10.95	12.620	
1,800.00	1,769.99	1,803.73	1,790.35	6.63	6.21	-177.41	-31.44	-36.59	162.08	150.21	11.86	13.662	
1,900.00	1,863.43	1,897.62	1,880.08	7.26	6.71	-170.03	-58.25	-29.89	189.00	176.18	12.82	14.747	
2,000.00	1,956.98	1,991.14	1,969.53	7.90	7.21	-164.84	-84.77	-23.44	218.09	204.29	13.79	15.811	
2,100.00	2,050.92	2,084.32	2,058.77	8.54	7.72	-160.86	-110.82	-17.07	248.02	233.24	14.78	16.778	
2,200.00	2,145.21	2,177.58	2,148.34	9.18	8.23	-155.59	-136.01	-10.65	278.27	262.49	15.78	17.640	
2,300.00	2,239.47	2,272.55	2,239.73	9.82	8.75	-152.94	-161.04	-4.27	309.05	292.26	16.79	18.407	
2,400.00	2,333.71	2,366.78	2,330.10	10.47	9.28	-150.69	-186.90	2.22	340.31	322.49	17.82	19.099	
2,500.00	2,428.17	2,462.74	2,422.02	11.11	9.82	-148.56	-213.73	8.58	371.09	352.21	18.88	19.657	
2,600.00	2,523.15	2,555.78	2,511.42	11.74	10.34	-147.09	-238.72	14.81	401.01	381.12	19.89	20.158	
2,700.00	2,618.35	2,653.62	2,605.76	12.26	10.77	-145.22	-263.90	20.98	430.38	409.62	20.76	20.736	
2,800.00	2,713.54	2,747.35	2,696.46	12.66	11.06	-146.07	-286.91	26.52	459.51	438.22	21.29	21.583	
2,900.00	2,807.58	2,834.55	2,780.59	13.00	11.27	-149.18	-309.00	32.59	493.84	472.20	21.64	22.825	
3,000.00	2,900.51	2,917.97	2,860.48	13.40	11.51	-146.79	-331.91	39.76	532.50	510.48	22.02	24.179	
3,100.00	2,993.55	3,005.00	2,943.25	13.83	11.78	-144.04	-357.20	48.85	572.09	549.60	22.49	25.435	
3,200.00	3,087.03	3,090.78	3,024.70	14.27	12.09	-143.53	-382.29	58.61	611.38	588.38	22.99	26.589	
3,300.00	3,180.19	3,191.69	3,120.94	14.73	12.45	-143.15	-410.65	69.39	651.22	627.55	23.67	27.517	
3,400.00	3,274.17	3,285.71	3,210.53	15.21	12.80	-142.36	-437.64	78.56	688.11	663.80	24.31	28.306	
3,500.00	3,367.41	3,388.56	3,308.98	15.71	13.20	-143.40	-465.88	87.77	726.49	701.43	25.06	28.994	
3,600.00	3,459.96	3,477.00	3,393.79	16.25	13.54	-143.04	-489.79	95.31	766.19	740.49	25.70	29.816	
3,700.00	3,552.80	3,516.97	3,415.88	16.80	14.45	-144.78	-547.57	37.26	781.37	755.00	26.37	29.629	
3,800.00	3,646.16	3,597.17	3,469.27	17.35	13.65	-166.19	-371.16	-211.20	750.06	729.29	20.78	36.104	
3,900.00	3,739.94	4,515.26	4,219.45	17.88	13.71	-172.90	-300.33	-290.93	711.10	689.82	21.28	33.410	
4,000.00	3,835.14	4,607.45	4,240.04	18.38	14.24	178.95	-236.40	-353.86	673.55	650.65	22.89	29.421	
4,100.00	3,930.20	4,637.43	4,243.45	18.89	14.53	177.11	-214.85	-374.42	648.31	623.79	24.52	26.445	
4,168.63	3,994.25	4,645.05	4,244.12	19.29	14.61	-168.62	-209.37	-379.66	642.67	617.29	25.38	25.318	
4,200.00	4,022.81	4,644.66	4,244.09	19.48	14.60	-163.16	-209.65	-379.39	644.03	618.35	25.67	25.084	
4,300.00	4,111.34	4,628.87	4,242.61	20.09	14.44	-144.96	-221.02	-368.53	660.22	634.10	26.12	25.280	
4,400.00	4,198.24	4,604.70	4,239.66	20.62	14.22	-128.33	-238.37	-351.97	685.31	659.31	25.99	26.364	
4,500.00	4,283.14	4,580.00	4,235.75	21.06	14.02	-114.03	-255.93	-335.05	716.74	691.22	25.52	28.089	
4,600.00	4,364.26	4,555.74	4,230.76	21.45	13.87	-105.58	-272.92	-318.48	754.62	729.78	24.84	30.377	
4,700.00	4,437.42	4,533.89	4,225.09	21.88	13.77	-98.20	-287.92	-303.62	802.30	778.14	24.16	33.206	
4,800.00	4,499.34	4,517.00	4,220.01	22.38	13.71	-89.36	-299.18	-292.12	858.03	834.38	23.64	36.291	
4,900.00	4,549.41	4,486.00	4,209.21	22.91	13.65	-82.17	-319.11	-270.98	915.37	892.25	23.12	39.593	

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. 048H
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. 048H	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:	MWD 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	4,592.10	4,454.00	4,196.18	23.42	13.63	-73.28	-338.63	-249.23	969.43	946.70	22.73	42.650	
5,100.00	4,620.02	4,422.00	4,181.40	23.90	13.63	-66.58	-357.15	-227.74	1,015.16	992.56	22.60	44.920	
5,200.00	4,632.31	4,359.00	4,150.63	24.41	13.70	-62.07	-392.70	-185.81	1,053.36	1,030.90	22.46	46.896	
5,300.00	4,637.77	4,316.66	4,129.30	25.07	13.77	-60.17	-416.16	-157.75	1,092.02	1,069.25	22.78	47.944	
5,400.00	4,639.18	4,296.00	4,118.02	25.92	13.81	-59.12	-427.01	-144.27	1,133.77	1,110.44	23.33	48.604	
5,500.00	4,639.23	4,265.00	4,099.81	26.98	13.87	-57.75	-442.42	-124.47	1,180.28	1,156.45	23.84	49.512	
5,600.00	4,638.86	4,233.00	4,079.42	28.24	13.94	-57.65	-457.22	-104.76	1,231.51	1,207.17	24.33	50.607	
5,700.00	4,639.03	4,202.00	4,058.18	29.67	14.00	-54.70	-470.44	-86.46	1,288.41	1,263.58	24.82	51.904	
5,800.00	4,638.74	4,184.94	4,045.91	31.24	14.03	-57.05	-477.26	-76.75	1,349.37	1,323.98	25.40	53.132	
5,900.00	4,641.22	4,170.00	4,034.87	32.91	14.06	-56.97	-482.98	-68.48	1,412.44	1,386.51	25.93	54.461	

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. 048H
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. 048H	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:	MWD 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	-25.87	131.00	-63.52	145.59				
100.00	100.00	102.22	102.22	0.13	0.17	26.23	131.32	-63.50	145.80	145.49	0.31	475.847	
200.00	200.00	201.46	201.45	0.31	0.34	26.44	132.22	-63.43	146.39	145.74	0.65	224.390	
300.00	300.00	300.68	300.67	0.49	0.51	26.80	133.72	-63.33	147.37	146.37	1.00	147.603	
400.00	400.00	399.89	399.85	0.67	0.67	27.28	135.81	-63.18	148.75	147.40	1.34	110.610	
500.00	499.99	499.18	499.10	1.00	0.97	14.74	138.53	-62.90	150.44	148.47	1.97	76.300	
600.00	599.99	599.61	599.50	1.36	1.33	35.87	141.35	-62.64	152.08	149.39	2.69	56.527	
700.00	699.99	701.45	701.31	1.72	1.70	57.66	143.57	-62.37	153.34	149.93	3.41	44.955	
800.00	799.98	804.56	804.41	2.07	2.05	73.51	143.87	-61.15	152.79	148.67	4.12	37.046	
900.00	899.98	904.38	904.22	2.43	2.39	90.10	143.26	-59.80	151.62	146.80	4.82	31.455	
1,000.00	999.85	1,003.83	1,003.66	2.79	2.74	92.73	142.88	-59.27	151.22	145.70	5.52	27.393	
1,016.09	1,015.89	1,019.91	1,019.74	2.85	2.79	93.88	142.83	-59.16	151.21	145.57	5.64	26.833	
1,100.00	1,099.31	1,103.01	1,102.84	3.16	3.08	99.35	142.58	-58.55	151.71	145.48	6.23	24.334 ES	
1,200.00	1,198.17	1,201.87	1,201.70	3.54	3.43	110.85	142.37	-58.19	155.29	148.33	6.96	22.302	
1,300.00	1,296.24	1,299.94	1,299.77	3.95	3.77	124.13	142.04	-58.07	164.10	156.40	7.70	21.305	
1,400.00	1,393.27	1,399.30	1,399.11	4.39	4.11	135.43	141.14	-56.79	179.08	170.62	8.46	21.179 SF	
1,500.00	1,489.00	1,498.66	1,498.22	4.88	4.46	142.06	137.95	-50.94	198.91	189.70	9.21	21.604	
1,600.00	1,583.31	1,595.76	1,594.45	5.42	4.82	147.02	131.45	-39.77	223.07	213.13	9.94	22.439	
1,700.00	1,676.66	1,687.75	1,684.91	6.01	5.17	153.51	122.52	-25.72	251.81	241.16	10.65	23.646	
1,800.00	1,769.99	1,775.31	1,770.53	6.63	5.52	159.95	112.70	-10.25	284.51	273.18	11.33	25.112	
1,900.00	1,863.43	1,863.24	1,856.03	7.26	5.89	165.56	101.83	7.21	320.69	308.68	12.02	26.690	
2,000.00	1,956.98	1,953.30	1,943.03	7.90	6.30	170.30	89.03	26.59	359.14	346.40	12.73	28.204	
2,100.00	2,050.92	2,041.77	2,028.20	8.54	6.71	174.37	75.16	46.09	398.30	384.85	13.46	29.594	
2,200.00	2,145.21	2,131.39	2,114.66	9.18	7.14	-179.98	61.47	65.34	438.22	424.01	14.21	30.832	
2,300.00	2,239.47	2,217.08	2,197.48	9.82	7.56	-177.11	48.82	83.31	479.33	464.37	14.95	32.052	
2,400.00	2,333.71	2,302.56	2,279.71	10.47	8.00	-174.58	35.64	102.61	522.29	506.58	15.71	33.245	
2,500.00	2,428.17	2,393.58	2,367.14	11.11	8.47	-172.04	21.10	123.28	565.30	548.76	16.53	34.193	
2,600.00	2,523.15	2,488.07	2,458.19	11.74	8.96	-170.11	6.31	143.78	606.78	589.39	17.39	34.887	
2,700.00	2,618.35	2,583.70	2,550.80	12.26	9.45	-167.93	-7.74	163.03	647.24	629.06	18.19	35.584	
2,800.00	2,713.54	2,677.72	2,642.21	12.66	9.78	-168.65	-20.68	180.84	687.40	668.73	18.66	36.830	
2,900.00	2,807.58	2,763.98	2,726.07	13.00	9.96	-171.98	-32.64	197.06	731.26	712.40	18.86	38.782	
3,000.00	2,900.51	2,843.35	2,802.76	13.40	10.12	-169.33	-45.17	213.24	778.84	759.80	19.04	40.913	
3,100.00	2,993.55	2,927.67	2,883.69	13.83	10.33	-166.06	-59.82	231.84	827.07	807.78	19.29	42.884	
3,200.00	3,087.03	3,017.84	2,970.53	14.27	10.56	-165.34	-74.70	250.99	873.98	854.37	19.61	44.574	
3,300.00	3,180.19	3,096.15	3,045.63	14.73	10.79	-164.75	-88.54	268.36	922.42	902.52	19.90	46.356	
3,400.00	3,274.17	3,187.43	3,132.93	15.21	11.09	-163.62	-105.30	289.03	969.10	948.78	20.31	47.705	
3,500.00	3,367.41	3,272.59	3,214.46	15.71	11.38	-164.63	-120.85	308.15	1,017.88	997.14	20.73	49.094	
3,600.00	3,459.96	3,374.54	3,312.76	16.25	11.72	-163.83	-137.81	329.08	1,067.26	1,045.98	21.28	50.153	
3,700.00	3,552.80	3,451.23	3,387.07	16.80	11.98	-162.26	-149.39	344.08	1,115.75	1,094.08	21.67	51.487	
3,800.00	3,646.16	3,518.47	3,451.74	17.35	12.23	-161.73	-160.21	358.94	1,164.75	1,142.73	22.03	52.878	
3,900.00	3,739.94	3,587.56	3,517.86	17.88	12.51	-159.33	-171.69	375.41	1,214.08	1,191.66	22.42	54.159	
4,000.00	3,835.14	3,659.00	3,585.77	18.38	12.83	-159.27	-184.28	393.63	1,260.86	1,238.03	22.84	55.207	
4,100.00	3,930.20	3,927.14	3,847.99	18.89	13.71	-157.61	-212.08	438.57	1,301.99	1,277.59	24.40	53.352	
4,200.00	4,022.81	4,080.31	4,000.95	19.48	13.98	-134.33	-214.87	445.33	1,336.56	1,311.50	25.06	53.334	
4,300.00	4,111.34	5,118.30	4,669.96	20.09	15.97	-151.08	206.56	13.28	1,339.96	1,313.58	26.38	50.790	
4,400.00	4,198.24	5,099.52	4,669.10	20.62	15.75	-137.33	193.67	26.90	1,341.66	1,314.81	26.85	49.976	
4,500.00	4,283.14	5,073.10	4,667.74	21.06	15.46	-125.55	175.72	46.24	1,345.47	1,318.37	27.10	49.651	
4,600.00	4,364.26	5,020.53	4,664.95	21.45	14.97	-119.20	140.07	84.78	1,352.48	1,325.44	27.04	50.023	
4,700.00	4,437.42	4,958.10	4,661.25	21.88	14.44	-114.55	97.54	130.32	1,367.76	1,340.86	26.90	50.855	
4,800.00	4,499.34	4,830.18	4,629.19	22.38	13.81	-106.43	13.17	220.08	1,389.96	1,363.24	26.71	52.033	
4,900.00	4,549.41	4,764.74	4,598.67	22.91	13.68	-100.30	-26.67	262.01	1,414.84	1,387.78	27.05	52.297	

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. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook 726 Pad (726, 728, 729, 760 & 761) - W Lybrook Unit No. 761H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2703-MWD, 12833-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	2.99	2.99	0.00	0.01	-41.78	104.41	-93.30	140.02				
100.00	100.00	102.77	102.77	0.13	0.17	10.40	104.73	-93.06	140.03	139.72	0.31	454.118	
200.00	200.00	202.54	202.53	0.31	0.34	10.89	105.67	-92.37	140.06	139.40	0.66	213.368	
300.00	300.00	302.28	302.25	0.49	0.51	11.68	107.22	-91.23	140.12	139.11	1.00	139.505	
400.00	400.00	401.99	401.92	0.67	0.68	12.80	109.39	-89.63	140.25	138.89	1.35	103.709	
500.00	499.99	501.96	501.84	1.00	0.99	0.99	112.06	-87.62	140.36	138.37	1.99	70.628	
600.00	599.99	602.59	602.44	1.36	1.35	22.37	113.79	-86.32	140.05	137.34	2.71	51.736	
700.00	699.99	703.00	702.85	1.72	1.70	44.00	114.45	-85.91	139.54	136.12	3.42	40.778	
800.00	799.98	803.04	802.89	2.07	2.05	59.51	114.61	-85.57	138.92	134.79	4.13	33.660	
900.00	899.98	902.98	902.83	2.43	2.39	75.33	114.28	-86.52	138.88	134.06	4.82	28.826	
1,000.00	999.85	1,005.38	1,005.19	2.79	2.73	77.01	112.36	-88.16	137.18	131.66	5.52	24.868	
1,100.00	1,099.31	1,110.97	1,110.49	3.16	3.09	81.58	105.57	-91.28	131.50	125.27	6.24	21.088	
1,200.00	1,198.17	1,212.94	1,211.64	3.54	3.45	90.18	93.48	-95.81	122.61	115.64	6.96	17.605	
1,300.00	1,296.24	1,315.43	1,312.95	3.95	3.82	101.83	78.79	-100.72	114.31	106.59	7.72	14.813	
1,400.00	1,393.27	1,418.96	1,414.71	4.39	4.22	113.43	60.27	-105.01	106.91	98.43	8.48	12.611	
1,500.00	1,489.00	1,521.80	1,514.91	4.88	4.66	121.89	37.55	-109.32	100.26	91.03	9.23	10.868	
1,600.00	1,583.31	1,625.11	1,614.18	5.42	5.14	130.98	9.47	-114.49	93.11	83.23	9.88	9.425	
1,700.00	1,676.66	1,725.71	1,709.09	6.01	5.66	144.54	-23.27	-120.61	85.99	75.49	10.49	8.193	
1,772.85	1,744.65	1,796.00	1,775.17	6.46	6.04	156.03	-46.83	-124.95	84.09	73.06	11.03	7.621 CC, ES	
1,800.00	1,769.99	1,822.55	1,800.13	6.63	6.19	160.45	-55.74	-126.60	84.33	73.09	11.25	7.498	
1,900.00	1,863.43	1,919.86	1,891.39	7.26	6.75	176.02	-88.89	-132.98	88.90	76.69	12.21	7.283 SF	
2,000.00	1,956.98	2,016.34	1,981.92	7.90	7.31	-171.00	-121.68	-139.24	99.54	86.13	13.40	7.426	
2,100.00	2,050.92	2,113.15	2,072.96	8.54	7.89	-160.83	-153.94	-145.67	113.97	99.26	14.71	7.749	
2,200.00	2,145.21	2,210.53	2,164.50	9.18	8.49	-150.79	-186.54	-152.13	130.29	114.24	16.05	8.117	
2,300.00	2,239.47	2,307.73	2,255.43	9.82	9.10	-144.04	-220.26	-158.65	148.28	130.86	17.42	8.513	
2,400.00	2,333.71	2,404.74	2,346.08	10.47	9.72	-138.78	-254.21	-165.04	167.97	149.19	18.77	8.947	
2,500.00	2,428.17	2,501.30	2,436.67	11.11	10.33	-134.73	-287.05	-171.37	188.17	168.09	20.08	9.371	
2,600.00	2,523.15	2,598.05	2,527.94	11.74	10.93	-131.79	-318.61	-177.08	208.34	187.00	21.35	9.761	
2,700.00	2,618.35	2,693.95	2,618.33	12.26	11.44	-128.58	-350.18	-182.52	228.87	206.47	22.40	10.216	
2,800.00	2,713.54	2,791.90	2,709.86	12.66	11.79	-127.51	-384.57	-188.22	249.99	226.82	23.18	10.786	
2,900.00	2,807.58	2,884.15	2,794.98	13.00	12.15	-128.67	-419.68	-193.90	276.15	252.32	23.84	11.585	
3,000.00	2,900.51	2,979.51	2,882.66	13.40	12.56	-125.25	-456.78	-199.30	305.76	281.16	24.61	12.426	
3,100.00	2,993.55	3,071.11	2,966.64	13.83	12.98	-121.94	-493.00	-204.44	334.81	309.46	25.36	13.204	
3,200.00	3,087.03	3,162.65	3,050.42	14.27	13.43	-120.76	-529.66	-208.39	364.25	338.11	26.14	13.934	
3,300.00	3,180.19	3,256.18	3,136.16	14.73	13.90	-119.96	-566.88	-211.68	395.54	368.55	26.99	14.657	
3,400.00	3,274.17	3,351.45	3,223.82	15.21	14.39	-118.81	-604.09	-214.62	425.30	397.43	27.87	15.259	
3,500.00	3,367.41	3,449.37	3,314.33	15.71	14.90	-119.55	-641.34	-217.48	456.77	427.94	28.82	15.847	
3,600.00	3,459.96	3,545.76	3,404.15	16.25	15.40	-119.34	-676.18	-220.22	488.93	459.17	29.77	16.426	
3,700.00	3,552.80	3,646.35	3,498.19	16.80	15.92	-118.38	-711.77	-223.25	519.93	489.15	30.78	16.892	
3,800.00	3,646.16	3,741.75	3,587.03	17.35	16.44	-117.94	-746.28	-227.35	548.99	517.25	31.75	17.293	
3,900.00	3,739.94	3,840.38	3,679.46	17.88	16.97	-116.24	-780.52	-230.85	577.31	544.57	32.74	17.634	
4,000.00	3,835.14	3,939.01	3,772.53	18.38	17.48	-116.29	-813.02	-234.11	602.40	568.70	33.70	17.876	
4,100.00	3,930.20	4,038.31	3,866.23	18.89	18.01	-114.74	-845.68	-237.71	627.62	592.93	34.68	18.096	
4,200.00	4,022.81	4,131.57	3,949.00	19.48	19.52	-121.96	-878.68	-241.98	651.42	618.84	35.74	18.335	
4,300.00	4,111.34	4,221.61	4,021.61	20.09	19.35	-124.07	-906.14	-246.68	672.47	640.79	36.88	18.583	
4,400.00	4,198.24	4,308.86	4,108.81	20.62	19.35	-124.10	-938.55	-251.79	694.42	663.62	38.00	18.836	
4,500.00	4,283.14	4,391.07	4,201.93	21.06	19.38	-124.51	-970.49	-257.34	716.64	686.59	39.10	19.093	
4,600.00	4,364.26	4,475.26	4,286.53	21.45	19.41	-124.33	-1002.77	-262.45	739.51	709.68	40.18	19.356	
4,700.00	4,437.42	4,560.35	4,368.96	21.88	19.44	-124.72	-1034.78	-267.75	762.42	732.64	41.25	19.623	
4,759.95	4,476.00	4,617.30	4,416.80	22.18	19.46	-119.43	-1066.31	-272.04	785.17	755.85	42.31	19.893	
4,800.00	4,499.34	4,601.04	4,569.04	22.38	19.48	-115.09	-1097.72	-276.49	807.49	778.17	43.36	20.166	
4,900.00	4,549.41	4,659.94	4,548.16	22.91	19.53	-102.92	-1129.50	-281.85	829.67	800.56	44.40	20.443	

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. 048H
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. 048H	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:	MWD 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		
5,000.00	4,592.10	4,817.44	4,525.90	23.42	19.58	-87.56	-820.63	-541.44	327.85	303.24	24.61	13.322		
5,100.00	4,620.02	4,772.00	4,500.46	23.90	19.63	-74.52	-841.19	-509.92	378.51	354.66	23.85	15.870		
5,200.00	4,632.31	4,740.00	4,481.17	24.41	19.65	-67.23	-853.75	-487.70	431.94	407.41	24.53	17.610		
5,300.00	4,637.77	4,697.45	4,453.47	25.07	19.66	-62.23	-868.26	-458.87	492.68	467.48	25.20	19.550		
5,400.00	4,639.18	4,657.05	4,425.00	25.92	19.67	-58.29	-880.63	-433.01	558.20	532.19	26.01	21.464		
5,500.00	4,639.23	4,623.89	4,400.13	26.98	19.67	-54.92	-889.70	-413.06	629.07	602.10	26.97	23.325		
5,600.00	4,638.86	4,593.99	4,376.61	28.24	19.67	-54.34	-896.97	-396.09	704.43	676.54	27.89	25.255		
5,700.00	4,639.03	4,568.14	4,355.57	29.67	19.66	-48.55	-902.63	-382.17	784.22	755.49	28.73	27.294		
5,800.00	4,638.74	4,551.00	4,341.30	31.24	19.66	-53.14	-906.01	-373.31	867.02	837.44	29.58	29.309		
5,900.00	4,641.22	4,519.00	4,314.09	32.91	19.64	-51.91	-911.49	-357.40	951.36	921.36	30.00	31.713		
6,000.00	4,642.45	4,507.53	4,304.17	34.67	19.64	-48.07	-913.19	-351.89	1,037.51	1,006.77	30.74	33.750		
6,100.00	4,642.17	4,488.00	4,287.11	36.51	19.62	-46.87	-915.77	-342.73	1,125.34	1,094.12	31.21	36.055		
6,200.00	4,643.36	4,476.06	4,276.58	38.40	19.61	-50.83	-917.16	-337.30	1,214.09	1,182.35	31.74	38.252		
6,300.00	4,644.93	4,456.00	4,258.66	40.35	19.59	-48.22	-919.12	-328.49	1,303.76	1,271.68	32.08	40.637		
6,400.00	4,644.27	4,456.00	4,258.66	42.33	19.59	-47.39	-919.12	-328.49	1,394.10	1,361.45	32.65	42.704		

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



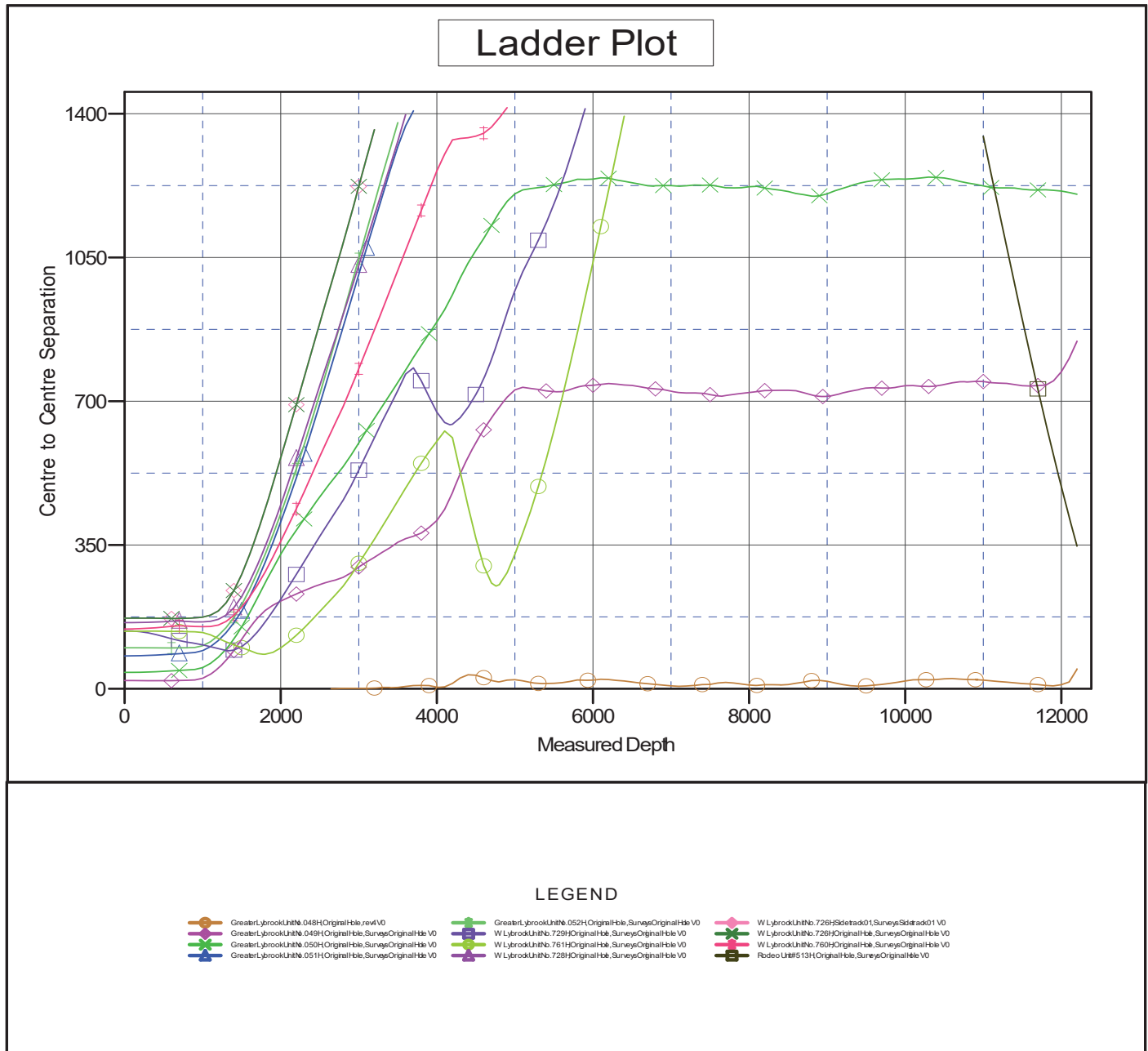
Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

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

Coordinates are relative to: Greater Lybrook Unit No. 048H
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. 048H
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. 048H	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:	MWD surveys Original Hole	Offset TVD Reference:	Offset Datum

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

Offset Depths are relative to Offset Datum

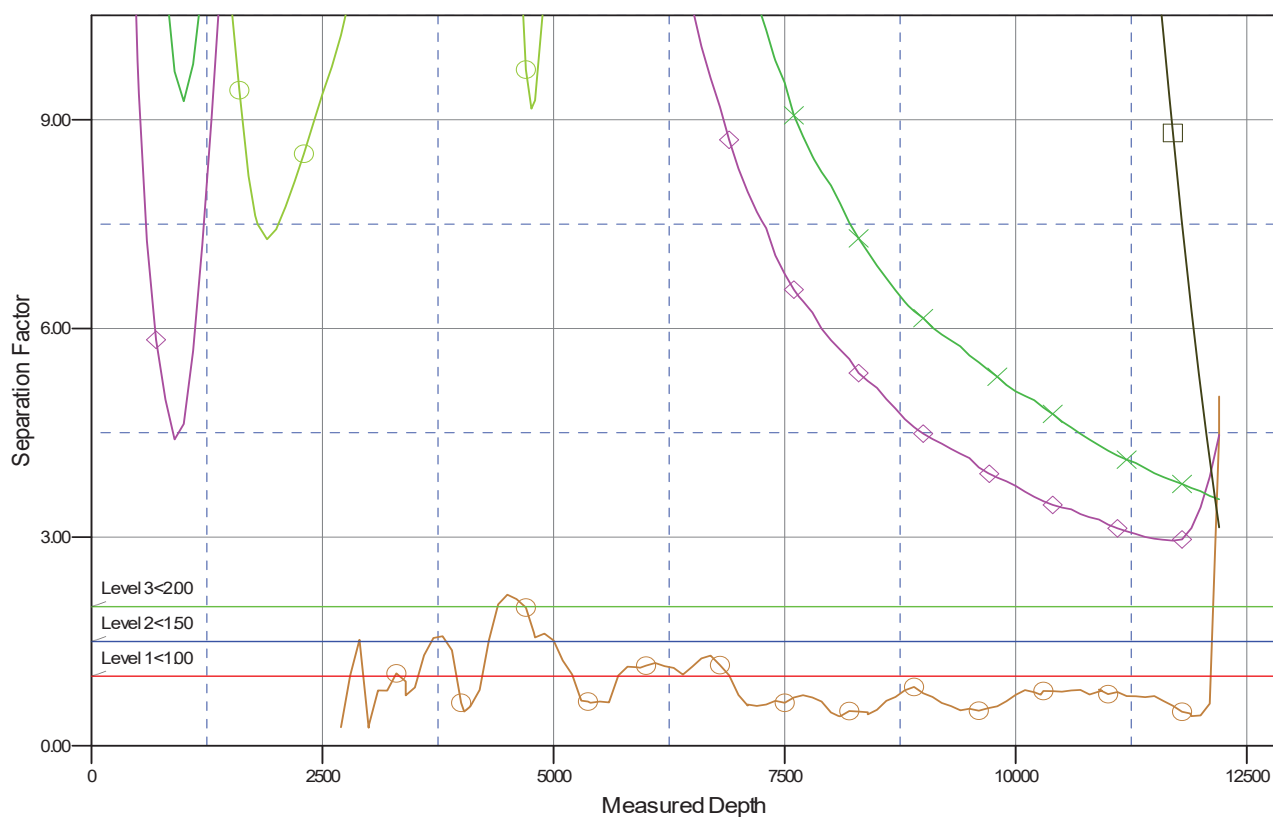
Central Meridian is -107.833333333

Coordinates are relative to: Greater Lybrook Unit No. 048H

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

Grid Convergence at Surface is: 0.04°

Separation Factor Plot



LEGEND

GreaterLybrookUnitNo.048HOriginalHole.revV0	GreaterLybrookUnitNo.052HOriginalHole.SurveyOriginalHole V0	W LybrookUnitNo.726HSideTrack01SurveySideTrack01 V0
GreaterLybrookUnitNo.049HOriginalHole.SurveyOriginalHole V0	W LybrookUnitNo.729HOriginalHole.SurveyOriginalHole V0	W LybrookUnitNo.726HOriginalHole.SurveyOriginalHole V0
GreaterLybrookUnitNo.050HOriginalHole.SurveyOriginalHole V0	W LybrookUnitNo.761HOriginalHole.SurveyOriginalHole V0	W LybrookUnitNo.760HOriginalHole.SurveyOriginalHole V0
GreaterLybrookUnitNo.051HOriginalHole.SurveyOriginalHole V0	W LybrookUnitNo.728HOriginalHole.SurveyOriginalHole V0	Rodeo Unit#513HOriginalHole.SurveyOriginalHole V0

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

WELL NAME: GREATER LYBROOK UNIT 048H**OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation****API Number:** 30-045-38283**AFE Number:** DV03082**ER Well Number:** NM08277.01**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 390 ft FSL 655 ft FWL**BH Location:** 35-23N-09W Sec-Twn- Rng 541 ft FNL 235 ft FEL**Driving Directions:** FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

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

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,678 ft
KOP (MD)	4,894 ft
KOP (TVD)	4,553 ft
Target (TVD)	4,599 ft
Curve BUR	10 °/100 ft
POE (MD)	5,001 ft
TD (MD)	12,161 ft
Lat Len (ft)	7,160 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	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,678	9.625	36.0	J-55	LTC	0	2,678
Production	8.500	12,161	5.500	17.0	P-110	LTC	0	12,161

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	364	
Inter. (Lead)	10 Type III:P	12.5	2.14	12.05	70%	0	514	
Inter. (Tail)	Type III	14.6	1.38	6.64	20%	2178	150	
Prod. (Lead)	ASTM type I/I	12.4	2.370	13.4	50%	0	456	
Prod. (Tail)	G:POZ blend	13.3	1.570	7.7	10%	3723	1354	

COMPLETION / PRODUCTION SUMMARY:**Frac:** 30 plug-and-perf stages with 210,000 bbls slickwater fluid and 13,000,000 lbs of proppant (estimated)**Flowback:** Flow back through production tubing as pressures allow**Production:** Produce through production tubing via gas-lift into permanent production and storage facilities

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	332	332
Kirtland	437	437
Fruitland	642	642
Pictured Cliffs	1,057	1,057
Lewis	1,177	1,177
Chacra	1,412	1,415
Cliff House	2,442	2,512
Menefee	2,447	2,517
Point Lookout	3,417	3,557
Mancos	3,572	3,723
Gallup (MNCS_A)	3,904	4,078
MNCS_B	4,000	4,181
MNCS_C	4,090	4,278
MNCS_Cms	4,132	4,323
MNCS_D	4,266	4,471
MNCS_E	4,407	4,646
MNCS_F	4,462	4,726
MNCS_G	4,531	4,849
MNCS_H	4,581	4,953
MNCS_I	4,621	5,078
FTP TARGET	4,599	5,001
PROJECTED LTP	4,609	12,161

Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R9W / SEC 23 / SWSW / 36.206226 / -107.764884	County or Parish/State: SAN JUAN / NM
Well Number: 048H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: NMNM057164	Unit or CA Name: WEST LYBROOK EXPLORATORY UNIT	Unit or CA Number: NMNM135216X
US Well Number: 3004538283	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Subsequent Report

Sundry ID: 2746921

Type of Submission: Subsequent Report

Type of Action: Hydraulic Fracturing

Date Sundry Submitted: 08/19/2023

Time Sundry Submitted: 09:39

Date Operation Actually Began: 06/05/2023

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. 27 total stages, total holes 1134. Perfed interval 5030 - 12130' MD. Perfed w 0.31" holes with ProSurf 170, ProSlick 579, ProChek 172, ProSta 170, and 8,508,500 lbs total proppant 7/20/2023 thru 7/22/2023 – Drilling out operations 7/23/2023 - tubing landed at 5,182.17'

SR Attachments

Actual Procedure

5_completion_GLU_048H_20230819093944.pdf

Received by OCD: 9/6/2023 7:34:31 AMPage 31 of 43

Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R9W / SEC 23 / SWSW / 36.206226 / -107.764884	County or Parish/State: SAN JUAN / NM
Well Number: 048H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: NMNM057164	Unit or CA Name: WEST LYBROOK EXPLORATORY UNIT	Unit or CA Number: NMNM135216X
US Well Number: 3004538283	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 19, 2023 09:39 AM
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: 08/21/2023
Signature: Matthew Kade	



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

Well Completion Print

08/24/2023

Operator Name ENDURING RESOURCES LLC	Well Name GREATER LYBROOK UNIT	Well Number 048H	US Well Number 3004538283
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 WEST LYBROOK EXPLORATORY UNIT	Agreement Number(s) NMNM105803962, NMNM135216X ID 10400083124
Allottee/Tribe Name NAVAJO NATION	Well Pad Name W LYBROOK UNIT	Well Pad Number 726	

Section 1 - General

Well Completion Report Id: 89065**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:** WEST LYBROOK**Keep this Well Completion Report confidential?:****APD Operator:** ENDURING
RESOURCES LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:****Field Name:** LYBROOK MANCOS W**Well Type:** OIL WELL**Spud Date:** 03-06-2023**Date Total Measured Depth Reached:** 05-18-2023**Drill & Abandon or Ready To Produce:** READY TO**Well Class:** HORIZONTAL

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
NACIMIENTO	SANDSTONE, SHALES		6747	0	0	USEABLE WATER	
OJO ALAMO	SANDSTONE, SHALES		6412	335	335	USEABLE WATER	

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 048H	US Well Number 3004538283
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name WEST LYBROOK EXPLORATORY UNIT	Agreement Number(s) NMNM105803962, NMNM135216X ID 10400083124
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
KIRTLAND	COAL, SHALE		6307	440	440	COAL, NATURAL GAS	
FRUITLAND	COAL		6102	645	645	COAL	
PICTURED CLIFFS	SANDSTONE, SHALE		5712	1035	1035	NATURAL GAS	
LEWIS	SHALE		5592	1155	1155	NATURAL GAS	
CHACRA	SANDSTONE, SHALE		5332	1415	1415	NATURAL GAS	
CLIFFHOUSE	SANDSTONE		4292	2455	2489	NATURAL GAS	
MENEFEE	COAL, SANDSTONE, SHALE		4272	2475	2511	NATURAL GAS	
POINT LOOKOUT	SANDSTONE, SHALE		3310	3437	3539	NATURAL GAS	
MANCOS	SHALE		3162	3585	3697	NATURAL GAS, OIL	
GALLUP	SHALE		2812	3935	4071	NATURAL GAS, OIL	

Completion and Completed

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
---------------	-----------------	-----------------	-------------	--------------	----------------------	-------------------------------	-------------------	----------------	---------------------	-----------	-------------------	----------------------	----------------------	------------------	-----------------	--------------------

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 048H	US Well Number 3004538283
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name WEST LYBROOK EXPLORATORY UNIT	Agreement Number(s) NMNM105803962, NMNM135216X ID 10400083124
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	NMNM135216X	NMNM057164	NEW		POW	07-24-2023	07-24-2023	GALLUP	4076	12201	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 048H	US Well Number 3004538283
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name WEST LYBROOK EXPLORATORY UNIT	Agreement Number(s) NMNM105803962, NMNM135216X ID 10400083124
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	07/28/2023	24	22	626	0	28454	64/64	283		792

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	36.206226	-107.764884	6747	N/A	N/A	INDIAN	N0G13121863				390	FSL	655	FWL	23N	9W	23	SW
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.206226	-107.764884	6747	0	0	INDIAN	N0G13121863				390	FSL	655	FWL	23N	9W	23	SW
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.203162	-107.76719	2065	5265	4682	FEDERAL	NMNM121961				724	FNL	16	FEL	23N	9W	27	NE
EXIT Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.189261	-107.75024	2100	12202	4647	INDIAN	NMNM036949				510	FNL	238	FEL	23N	9W	35	NE

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 048H	US Well Number 3004538283
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name WEST LYBROOK EXPLORATORY UNIT	Agreement Number(s) NMNM105803962, NMNM135216X ID 10400083124
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 Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.189 143	- 107.75 0072	2100	12202	4647	INDIAN	NMNM 03694 9				553	FNL	188	FEL	23N	9W	35	NE

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	373	13.375	54.5	J-55		BUTT		
00	INTERMEDIATE	12.25	0	2699	9.625	36	J-55		LT&C		
00	PRODUCTION	8.5	0	12191	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 048H	US Well Number 3004538283
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name WEST LYBROOK EXPLORATORY UNIT	Agreement Number(s) NMNM105803962, NMNM135216X ID 10400083124
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	354	1.39	0					87.6
00	INTERMEDIATE		Type III: POZ Blend	519	2.14	0	Type III	137	1.38	2157	231.5
00	PRODUCTION		Type I/II	480	2.26	0	Class G:POZ Blend	1368	1.57	2877	575.7

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		5182		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 048H	US Well Number 3004538283
	County SAN JUAN	State NM	Lease Number(s) NMNM057164
Well Type OIL WELL	Well Status Drilling Well	Agreement Name WEST LYBROOK EXPLORATORY UNIT	Agreement Number(s) NMNM105803962, NMNM135216X ID 10400083124
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

Enduring_Greater_Lybrook_Unit_048H_AC_final_surveys_to_12201_MD_20230822120924.pdf

Greater_Lybrook_Unit_048H_As_Drilled_C_102_Plat___SIGNED_20230822120927.pdf

GLU_048H_Drilling_Schematic_3_27_2023_20230822120933.pdf

List_of_Leases_GLU_048H_20230824122022.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.

NMNM057164

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

6. If Indian, Allottee or Tribe Name – Eastern Navajo

7. Unit or CA Agreement Name and No.
NMNM135216X

2. Name of Operator

Enduring Resources IV LLC

8. Lease Name and Well No.

Greater Lybrook Unit 048H

3. Address

200 Energy Court Farmington NM 87402

3a. Phone No. (Include area code)

505-636-9743

9. API Well No.

30-045-38283

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

At surface

SHL: 390' FSL & 655' FWL, Sec 23 T23N, R9W

BHL: 541' FNL & 235' FEL, Sec 26 T23N, R9W

At top prod. interval reported below At total depth

10. Field and Pool or Exploratory Mancos/Basin Mancos

11. Sec., T., R., M., on Block and Survey or Area
Sec 23 T23N R9W

12. County or Parish
San Juan

13. State
NM

14. Date Spudded
3/6/2023

15. Date T.D. Reached
5/18/2023

16. Date Completed 7/24/2023
☐ D & A ☒ Ready to Prod.

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

18. Total Depth: **12,191' MD**
4,606' TVD

19. Plug Back T.D.: **12,135.5' MD**
4,609' 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	372.91' MD		354	87	surface	
12-1/4"	9-5/8", J-55	36	0	2696.8' MD		656	231.7	surface	
8-1/2"	5-1/2", P-110	17	0	12191' MD		1848	574	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	5182'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
MNCS_A	3904' TVD	4880' TVD	5030' - 12130' 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
5030' - 12130' MD	24 hour Frac Ops. 27 total stages, total holes 1134. Perfed interval 5030 - 12130' MD. Perfed w 0.31" holes with ProSurf 170, ProSlick 579, ProChek 172, ProSta 170, and 8,508,500 lbs total proppant

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
7/24/2023	7/28/2023	24 hr	➡	22	626	0			Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	283	792	➡					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 2447
PNLK 3422
MNCS 3577
Gallup (MNCS_A) 3904

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 262214

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 262214
	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 262214

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 262214
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	10/12/2023