

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-045-38310	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number 056H

II. ¹⁰ Surface Location

Ul or lot no. J	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 1365'	North/South Line SOUTH	Feet from the 2007'	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no. P	Section 25	Township 23N	Range 9W	Lot Idn	Feet from the 970'	North/South line SOUTH	Feet from the 177'	East/West line EAST	County SAN JUAN
¹² Lse Code N	¹³ Producing Method Code		¹⁴ Gas Connection Date 3/20/24		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 9/7/2023	²² Ready Date 3/20/24	²³ TD 14,837' MD 4,738' TVD	²⁴ PBDT 14,824' MD 4,738' TVD	²⁵ Perforations ~ 5,200' – 14,697' MD ~ 4,746' -4,736' TVD AlphaSleeve 14,726'	²⁶ DHC, MC R-22081	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17.5"		13.375",54.5#, J-55		377' MD		352 sx
12.25"		9.625",36#, J-55		2,843' MD		684 sx
8.5"		5.5",17#, P-110		14,827' MD		2,243 sx

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION Approved by: PATRICIA MARTINEZ	
Printed name: Heather Huntington		Title: PETROLEUM SPECIALIST	
Title: Permitting Technician		Approval Date: 3/12/2024	
E-mail Address:hhuntington@enduringresources.com		RT EXPIRES 6/20/2024	
Date: 2/27/24	Phone:505-636-9751		



ENDURING RESOURCES IV LLC

February 27, 2024

Re: GREATER LYBROOK UNIT 056H-30-045-38310

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

Sincerely,

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

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

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

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Phone: (505) 334-6178 Fax: (505) 334-6170

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

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☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38310		² Pool Code 98157	³ Pool Name LYBROOK MANCOS W	
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT			⁶ Well Number 056H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6802'

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
J	23	23N	9W		1365	SOUTH	2007	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	23N	9W		970	SOUTH	177	EAST	SAN JUAN

¹² Dedicated Acres 560.0	N/2 NW/4, SE/4 NW/4 SW/4 NE/4, N/2 SE/4 SE/4 SE/4 - Section 25 S/2 SW/4 - Section 24 N/2 SE/4, SE/4 SE/4 S/2 NE/4 - Section 23	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		

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.

Heater Heater 2/29/24

Signature _____
Heather Huntington

Printed Name
hhuntington@enduringresources.com

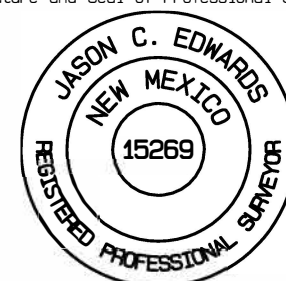
F-mail Address

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.

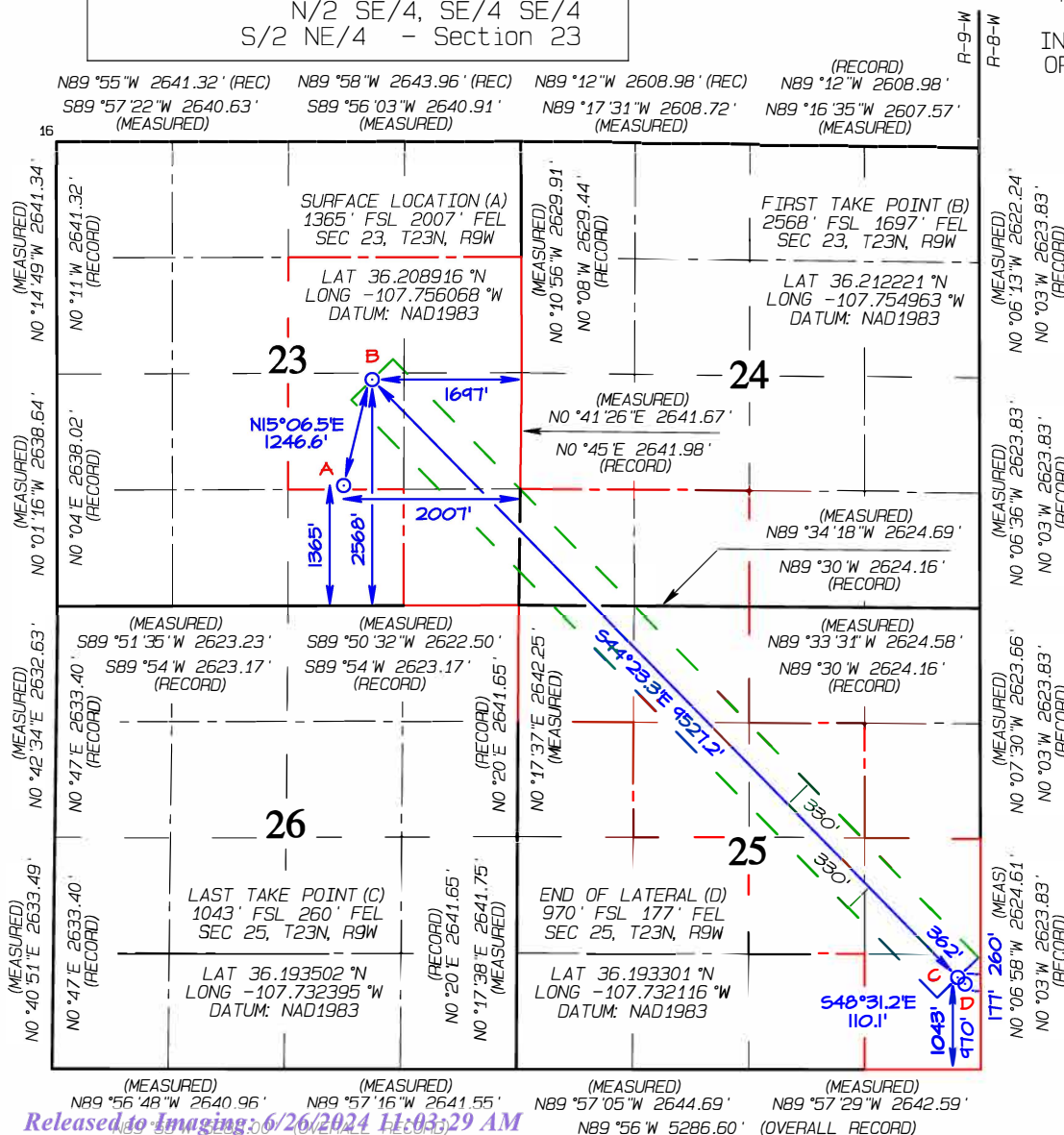
Date Revised: FEBRUARY 29, 2024
Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number	15269
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⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6802'

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J	23	23N	9W		1365	SOUTH	2007	EAST	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
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Signature Heath H Date 2/29/24

Heather Huntington

Printed Name _____

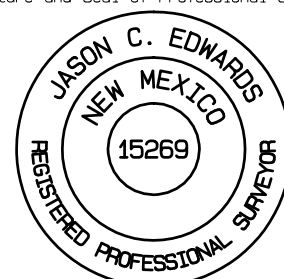
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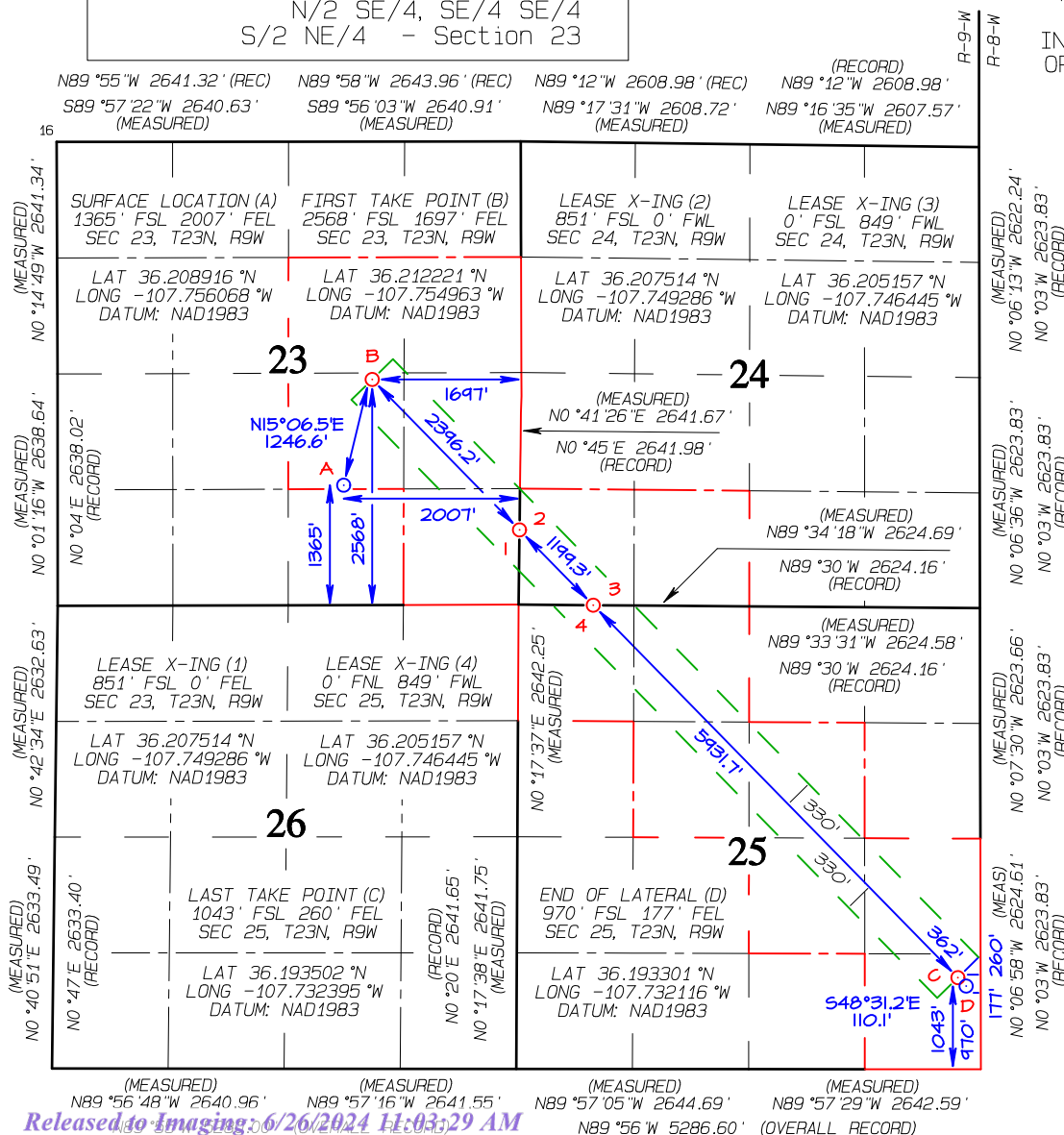
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Heath Hunt 2/29/24

Signature Heather Huntington Date _____

Printed Name
hhuntington@enduringresources.com

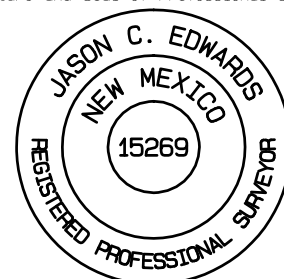
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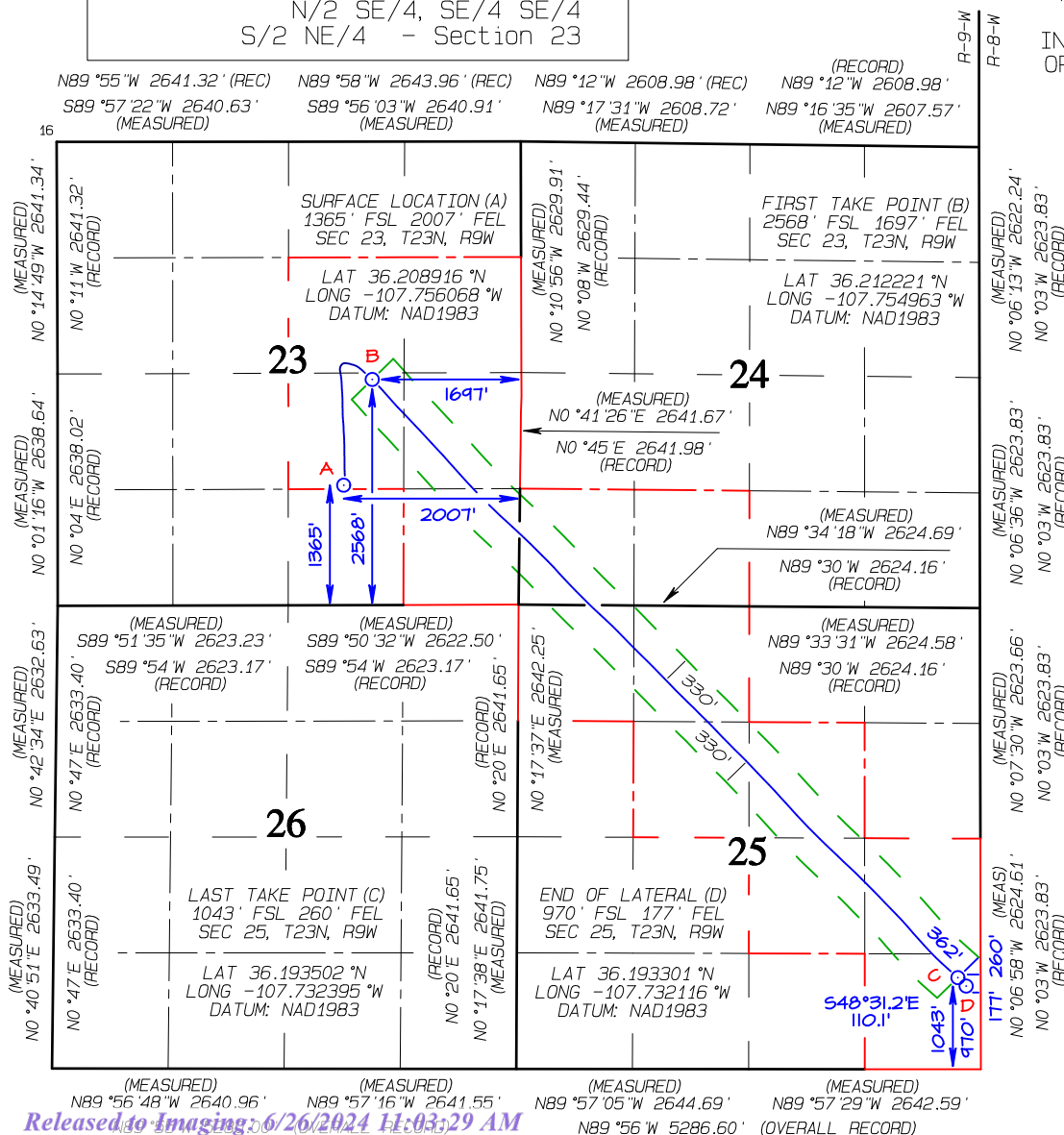
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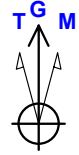


Well: Greater Lybrook Unit No. 056H
Site: Greater Lybrook 57 Pad (53,54,55,56 & 57)
Project: San Juan County, New Mexico NAD83 NM W
Design: MWD surveys
Rig: Aztec 1000

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone
 System Datum: Mean Sea Level
 Depth Reference: RKB=6802+25 @ 6827.00ft (Aztec 1000)

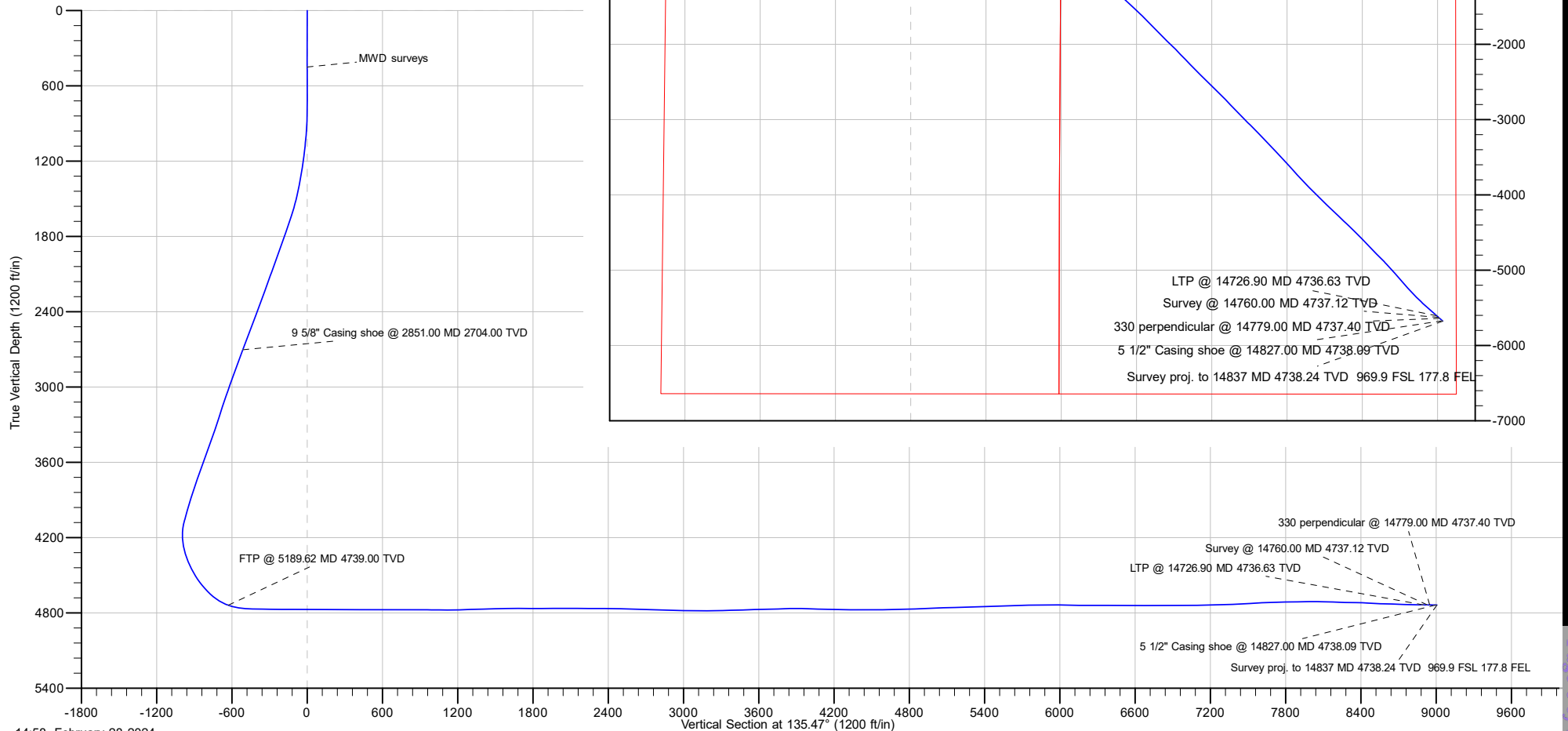
Surface location:
 Northing 1895352.13 Easting 2745885.35 Latitude 36.20891600 Longitude -107.75606800

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.48°



Azimuths to Grid North
 True North: -0.05°
 Magnetic North: 8.48°

Magnetic Field
 Strength: 49032.3nT
 Dip Angle: 62.67°
 Date: 1/13/2024
 Model: IGRF2020



ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
451.00	0.89	45.15	450.98	2.43	2.44	-0.02	MWD surveys
2851.00	26.08	356.27	2704.00	713.50	-5.10	-512.22	9 5/8\" Casing shoe @ 2851.00 MD 2704.00 TVD
5189.62	69.95	133.96	4739.00	1203.45	325.02	-629.99	FTP @ 5189.62 MD 4739.00 TVD
14726.90	89.11	131.67	4736.63	-5604.66	6989.60	8897.16	LTP @ 14726.90 MD 4736.63 TVD
14760.00	89.17	131.53	4737.12	-5626.64	7014.35	8930.18	Survey @ 14760.00 MD 4737.12 TVD
14779.00	89.17	131.53	4737.40	-5639.23	7028.57	8949.13	330 perpendicular @ 14779.00 MD 4737.40 TVD
14827.00	89.17	131.53	4738.09	-5671.05	7064.50	8997.01	5 1/2\" Casing shoe @ 14827.00 MD 4738.09 TVD
14837.00	89.17	131.53	4738.24	-5677.68	7071.99	9006.99	Survey proj. to 14837 MD 4738.24 TVD 969.9 FSL 177.8 FEL



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Project	San Juan County, New Mexico NAD83 NM W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Greater Lybrook 57 Pad (53,54,55,56 & 57)				
Site Position:		Northing:	1,895,341.59 usft	Latitude:	36.20888700
From:	Lat/Long	Easting:	2,745,902.47 usft	Longitude:	-107.75601000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Greater Lybrook Unit No. 056H, Surf loc: 1365 FSL 2007 FEL Section 23-T23N-T09W					
Well Position	+N/-S	0.00 ft	Northing:	1,895,352.13 usft	Latitude:	36.20891600
	+E/-W	0.00 ft	Easting:	2,745,885.35 usft	Longitude:	-107.75606800
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,802.00 ft
Grid Convergence:		0.05 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/13/2024	8.53	62.67	49,032.27480223

Design	MWD surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	135.47	

Survey Program	Date	2/28/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,789.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,883.00	14,760.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,837.00	14,837.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
451.00	0.89	45.15	450.98	2.43	2.44	-0.02	0.20	0.20	0.00	
MWD surveys										
480.00	1.10	50.21	479.98	2.76	2.81	0.00	0.78	0.72	17.45	
539.00	1.04	61.11	538.97	3.38	3.72	0.19	0.36	-0.10	18.47	
599.00	1.06	58.04	598.96	3.94	4.66	0.46	0.10	0.03	-5.12	
659.00	0.94	63.47	658.95	4.46	5.58	0.73	0.25	-0.20	9.05	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
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Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
720.00	0.97	51.51	719.94	5.00	6.43	0.94	0.33	0.05	-19.61
781.00	1.48	33.29	780.93	5.98	7.26	0.83	1.04	0.84	-29.87
840.00	3.12	18.99	839.88	8.14	8.20	-0.05	2.92	2.78	-24.24
900.00	4.74	14.49	899.73	12.08	9.36	-2.05	2.75	2.70	-7.50
959.00	6.34	10.44	958.46	17.64	10.56	-5.17	2.79	2.71	-6.86
1,022.00	7.99	2.75	1,020.96	25.44	11.40	-10.14	3.02	2.62	-12.21
1,085.00	9.12	3.66	1,083.26	34.80	11.93	-16.44	1.81	1.79	1.44
1,148.00	10.26	0.97	1,145.36	45.39	12.34	-23.70	1.95	1.81	-4.27
1,212.00	11.57	0.14	1,208.20	57.51	12.45	-32.26	2.06	2.05	-1.30
1,275.00	12.80	1.47	1,269.78	70.80	12.65	-41.60	2.00	1.95	2.11
1,338.00	13.96	0.51	1,331.07	85.38	12.89	-51.82	1.87	1.84	-1.52
1,401.00	15.46	359.65	1,392.01	101.37	12.91	-63.21	2.41	2.38	-1.37
1,464.00	16.64	357.91	1,452.55	118.78	12.53	-75.89	2.02	1.87	-2.76
1,527.00	18.20	357.32	1,512.66	137.63	11.74	-89.88	2.49	2.48	-0.94
1,590.00	20.97	358.51	1,572.01	158.73	10.99	-105.45	4.44	4.40	1.89
1,653.00	23.79	359.16	1,630.26	182.71	10.51	-122.88	4.49	4.48	1.03
1,716.00	25.43	359.84	1,687.53	208.94	10.28	-141.74	2.64	2.60	1.08
1,779.00	25.92	359.20	1,744.31	236.24	10.05	-161.36	0.89	0.78	-1.02
1,842.00	25.98	359.36	1,800.96	263.80	9.71	-181.25	0.15	0.10	0.25
1,906.00	26.06	358.75	1,858.47	291.87	9.24	-201.59	0.44	0.13	-0.95
1,969.00	26.14	359.56	1,915.05	319.59	8.84	-221.63	0.58	0.13	1.29
2,032.00	26.85	359.88	1,971.43	347.69	8.70	-241.76	1.15	1.13	0.51
2,095.00	27.13	0.32	2,027.57	376.28	8.75	-262.11	0.55	0.44	0.70
2,158.00	26.87	359.20	2,083.70	404.88	8.63	-282.58	0.91	-0.41	-1.78
2,221.00	25.85	358.61	2,140.15	432.85	8.10	-302.89	1.67	-1.62	-0.94
2,284.00	26.10	358.72	2,196.79	460.43	7.46	-323.01	0.40	0.40	0.17
2,347.00	26.70	359.12	2,253.22	488.44	6.93	-343.34	0.99	0.95	0.63
2,410.00	26.80	357.91	2,309.48	516.79	6.19	-364.07	0.88	0.16	-1.92
2,473.00	26.15	356.73	2,365.87	544.84	4.88	-384.98	1.33	-1.03	-1.87
2,536.00	26.93	356.88	2,422.23	572.95	3.32	-406.12	1.24	1.24	0.24
2,599.00	27.05	356.32	2,478.37	601.49	1.62	-427.65	0.45	0.19	-0.89
2,662.00	26.89	356.71	2,534.52	630.01	-0.12	-449.20	0.38	-0.25	0.62
2,725.00	26.50	356.96	2,590.80	658.27	-1.68	-470.44	0.64	-0.62	0.40
2,789.00	25.82	356.28	2,648.25	686.43	-3.34	-491.69	1.16	-1.06	-1.06
2,851.00	26.08	356.27	2,704.00	713.50	-5.10	-512.22	0.41	0.41	-0.01
9 5/8" Casing shoe @ 2851.00 MD 2704.00 TVD									
2,883.00	26.21	356.27	2,732.72	727.57	-6.02	-522.90	0.41	0.41	-0.01
2,977.00	26.06	355.38	2,817.11	768.87	-9.03	-554.45	0.45	-0.16	-0.95
3,071.00	26.35	358.97	2,901.46	810.31	-11.07	-585.42	1.71	0.31	3.82
3,166.00	26.47	359.02	2,986.54	852.56	-11.81	-616.06	0.13	0.13	0.05
3,260.00	25.40	359.82	3,071.07	893.67	-12.24	-645.66	1.20	-1.14	0.85
3,355.00	24.54	358.66	3,157.19	933.76	-12.76	-674.61	1.04	-0.91	-1.22
3,449.00	24.00	357.78	3,242.89	972.38	-13.96	-702.98	0.69	-0.57	-0.94
3,544.00	25.41	358.23	3,329.19	1,012.06	-15.34	-732.24	1.50	1.48	0.47



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,638.00	23.26	355.67	3,414.83	1,050.73	-17.36	-761.22	2.55	-2.29	-2.72
3,733.00	24.76	356.32	3,501.61	1,089.29	-20.05	-790.60	1.60	1.58	0.68
3,827.00	26.18	357.79	3,586.47	1,129.66	-22.12	-820.82	1.65	1.51	1.56
3,921.00	26.33	356.52	3,670.78	1,171.19	-24.18	-851.88	0.62	0.16	-1.35
4,015.00	24.39	354.24	3,755.72	1,211.31	-27.40	-882.74	2.31	-2.06	-2.43
4,110.00	22.33	351.69	3,842.93	1,248.69	-31.97	-912.59	2.42	-2.17	-2.68
4,203.00	18.89	347.69	3,929.97	1,280.89	-37.74	-939.59	3.99	-3.70	-4.30
4,235.00	17.72	346.96	3,960.35	1,290.70	-39.94	-948.13	3.73	-3.66	-2.28
4,266.00	18.44	348.96	3,989.82	1,300.10	-41.94	-956.24	3.07	2.32	6.45
4,298.00	20.57	354.93	4,019.98	1,310.67	-43.41	-964.80	9.11	6.66	18.66
4,329.00	22.79	31.16	4,048.79	1,322.10	-43.56	-973.05	12.13	7.16	26.55
4,360.00	24.55	11.87	4,077.19	1,334.40	-41.90	-980.66	12.61	5.68	28.10
4,392.00	24.81	20.41	4,106.28	1,347.20	-38.20	-987.18	11.16	0.81	26.69
4,423.00	23.33	30.38	4,134.59	1,358.60	-32.82	-991.54	13.94	-4.77	32.16
4,454.00	22.30	40.46	4,163.18	1,368.37	-25.90	-993.65	13.02	-3.32	32.52
4,486.00	20.10	50.43	4,193.02	1,376.50	-17.71	-993.71	13.18	-6.88	31.16
4,518.00	18.28	61.23	4,223.25	1,382.42	-9.07	-991.87	12.44	-5.69	33.75
4,549.00	18.22	72.81	4,252.70	1,386.19	-0.18	-988.32	11.68	-0.19	37.35
4,580.00	19.08	83.17	4,282.08	1,388.23	9.48	-982.99	11.03	2.77	33.42
4,612.00	20.67	91.74	4,312.18	1,388.68	20.33	-975.71	10.36	4.97	26.78
4,644.00	22.25	97.44	4,341.97	1,387.72	31.98	-966.86	8.17	4.94	17.81
4,675.00	24.49	99.92	4,370.42	1,385.86	44.13	-957.00	7.89	7.23	8.00
4,707.00	26.93	102.85	4,399.25	1,383.10	57.73	-945.50	8.60	7.63	9.16
4,738.00	28.93	104.75	4,426.64	1,379.63	71.83	-933.14	7.06	6.45	6.13
4,770.00	31.04	105.03	4,454.36	1,375.52	87.28	-919.37	6.61	6.59	0.88
4,801.00	33.13	105.57	4,480.62	1,371.17	103.16	-905.14	6.81	6.74	1.74
4,833.00	34.76	108.93	4,507.17	1,365.86	120.22	-889.39	7.77	5.09	10.50
4,864.00	36.20	114.13	4,532.42	1,359.25	136.94	-872.96	10.78	4.65	16.77
4,896.00	37.92	119.83	4,557.96	1,350.50	154.10	-854.68	12.00	5.38	17.81
4,927.00	39.61	124.58	4,582.14	1,340.15	170.50	-835.80	11.03	5.45	15.32
4,959.00	41.36	128.41	4,606.48	1,327.78	187.19	-815.28	9.50	5.47	11.97
4,990.00	44.17	131.72	4,629.24	1,314.23	203.28	-794.33	11.60	9.06	10.68
5,021.00	47.03	133.23	4,650.92	1,299.27	219.61	-772.22	9.86	9.23	4.87
5,053.00	50.95	132.43	4,671.92	1,282.86	237.32	-748.10	12.39	12.25	-2.50
5,084.00	55.44	131.28	4,690.49	1,266.31	255.81	-723.34	14.78	14.48	-3.71
5,116.00	59.82	131.39	4,707.61	1,248.46	276.10	-696.39	13.69	13.69	0.34
5,148.00	63.90	132.37	4,722.70	1,229.63	297.10	-668.23	13.03	12.75	3.06
5,179.00	68.43	133.52	4,735.23	1,210.31	317.85	-639.91	15.00	14.61	3.71
5,189.62	69.95	133.96	4,739.00	1,203.45	325.02	-629.99	14.79	14.28	4.11
FTP @ 5189.62 MD 4739.00 TVD									
5,210.00	72.86	134.77	4,745.50	1,189.94	338.82	-610.68	14.79	14.30	3.99
5,242.00	77.00	135.34	4,753.82	1,168.08	360.65	-579.79	13.05	12.94	1.78
5,273.00	80.63	136.59	4,759.83	1,146.22	381.78	-549.38	12.36	11.71	4.03



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,304.00	83.79	137.29	4,764.03	1,123.78	402.75	-518.68	10.44	10.19	2.26
5,336.00	85.90	137.92	4,766.91	1,100.24	424.23	-486.84	6.88	6.59	1.97
5,368.00	87.91	138.39	4,768.63	1,076.44	445.55	-454.92	6.45	6.28	1.47
5,399.00	88.88	138.51	4,769.50	1,053.25	466.10	-423.97	3.15	3.13	0.39
5,431.00	89.09	138.95	4,770.07	1,029.20	487.21	-392.03	1.52	0.66	1.38
5,526.00	89.29	138.06	4,771.41	958.05	550.14	-297.17	0.96	0.21	-0.94
5,620.00	89.47	136.83	4,772.43	888.81	613.71	-203.24	1.32	0.19	-1.31
5,715.00	89.41	135.76	4,773.36	820.14	679.35	-108.25	1.13	-0.06	-1.13
5,809.00	89.52	136.68	4,774.24	752.28	744.38	-14.27	0.99	0.12	0.98
5,904.00	89.82	136.05	4,774.78	683.52	809.93	80.72	0.73	0.32	-0.66
5,998.00	90.54	137.32	4,774.49	615.13	874.42	174.70	1.55	0.77	1.35
6,092.00	90.26	137.42	4,773.83	545.97	938.08	268.64	0.32	-0.30	0.11
6,187.00	89.44	137.15	4,774.08	476.18	1,002.52	363.59	0.91	-0.86	-0.28
6,281.00	89.36	136.69	4,775.06	407.52	1,066.72	457.56	0.50	-0.09	-0.49
6,375.00	90.00	137.72	4,775.59	338.55	1,130.58	551.51	1.29	0.68	1.10
6,469.00	89.98	138.36	4,775.61	268.65	1,193.43	645.42	0.68	-0.02	0.68
6,563.00	89.86	137.96	4,775.74	198.62	1,256.13	739.31	0.44	-0.13	-0.43
6,657.00	89.87	137.70	4,775.96	128.95	1,319.24	833.23	0.28	0.01	-0.28
6,751.00	90.25	138.36	4,775.86	59.06	1,382.10	927.14	0.81	0.40	0.70
6,846.00	88.93	136.09	4,776.54	-10.66	1,446.61	1,022.08	2.76	-1.39	-2.39
6,940.00	90.23	138.18	4,777.23	-79.55	1,510.55	1,116.03	2.62	1.38	2.22
7,035.00	91.19	134.91	4,776.05	-148.50	1,575.87	1,210.99	3.59	1.01	-3.44
7,129.00	92.07	133.90	4,773.38	-214.25	1,643.00	1,304.94	1.42	0.94	-1.07
7,223.00	91.74	133.67	4,770.25	-279.26	1,710.82	1,398.85	0.43	-0.35	-0.24
7,318.00	91.25	133.35	4,767.77	-344.64	1,779.70	1,493.76	0.62	-0.52	-0.34
7,412.00	91.80	132.85	4,765.27	-408.84	1,848.31	1,587.64	0.79	0.59	-0.53
7,507.00	89.13	132.45	4,764.50	-473.20	1,918.17	1,682.52	2.84	-2.81	-0.42
7,601.00	89.21	132.09	4,765.86	-536.42	1,987.72	1,776.36	0.39	0.09	-0.38
7,695.00	90.66	134.36	4,765.97	-600.79	2,056.21	1,870.28	2.87	1.54	2.41
7,789.00	90.79	134.03	4,764.78	-666.31	2,123.60	1,964.25	0.38	0.14	-0.35
7,883.00	89.64	135.20	4,764.43	-732.33	2,190.51	2,058.23	1.75	-1.22	1.24
7,977.00	89.87	134.49	4,764.83	-798.62	2,257.16	2,152.23	0.79	0.24	-0.76
8,071.00	89.28	135.81	4,765.53	-865.25	2,323.45	2,246.22	1.54	-0.63	1.40
8,166.00	90.58	137.13	4,765.64	-934.13	2,388.87	2,341.20	1.95	1.37	1.39
8,260.00	88.25	137.68	4,766.60	-1,003.32	2,452.49	2,435.14	2.55	-2.48	0.59
8,354.00	88.67	136.77	4,769.13	-1,072.29	2,516.30	2,529.06	1.07	0.45	-0.97
8,448.00	88.62	136.45	4,771.35	-1,140.58	2,580.86	2,623.01	0.34	-0.05	-0.34
8,543.00	88.45	135.27	4,773.78	-1,208.73	2,646.99	2,717.98	1.25	-0.18	-1.24
8,637.00	88.57	135.20	4,776.23	-1,275.45	2,713.17	2,811.94	0.15	0.13	-0.07
8,731.00	88.59	134.82	4,778.56	-1,341.91	2,779.60	2,905.91	0.40	0.02	-0.40
8,826.00	87.89	133.06	4,781.47	-1,407.80	2,847.97	3,000.83	1.99	-0.74	-1.85
8,919.00	88.23	132.60	4,784.62	-1,470.98	2,916.14	3,093.68	0.61	0.37	-0.49
9,014.00	91.14	133.20	4,785.14	-1,535.64	2,985.72	3,188.57	3.13	3.06	0.63



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,108.00	91.85	133.31	4,782.69	-1,600.04	3,054.16	3,282.47	0.76	0.76	0.12
9,202.00	91.60	136.01	4,779.86	-1,666.07	3,120.98	3,376.40	2.88	-0.27	2.87
9,296.00	91.39	135.44	4,777.41	-1,733.35	3,186.58	3,470.37	0.65	-0.22	-0.61
9,391.00	91.86	135.77	4,774.71	-1,801.21	3,253.02	3,565.33	0.60	0.49	0.35
9,485.00	91.68	134.92	4,771.81	-1,868.04	3,319.05	3,659.29	0.92	-0.19	-0.90
9,579.00	91.59	134.52	4,769.13	-1,934.16	3,385.82	3,753.24	0.44	-0.10	-0.43
9,674.00	91.74	134.05	4,766.37	-2,000.46	3,453.79	3,848.18	0.52	0.16	-0.49
9,768.00	88.74	136.14	4,765.98	-2,067.02	3,520.14	3,942.16	3.89	-3.19	2.22
9,862.00	87.97	135.83	4,768.67	-2,134.60	3,585.43	4,036.12	0.88	-0.82	-0.33
9,956.00	88.14	135.49	4,771.86	-2,201.79	3,651.09	4,130.06	0.40	0.18	-0.36
10,050.00	89.41	136.51	4,773.87	-2,269.39	3,716.37	4,224.03	1.73	1.35	1.09
10,144.00	89.23	135.38	4,774.99	-2,336.94	3,781.73	4,318.02	1.22	-0.19	-1.20
10,239.00	89.45	134.50	4,776.08	-2,404.04	3,848.97	4,413.01	0.95	0.23	-0.93
10,333.00	89.26	134.22	4,777.14	-2,469.75	3,916.17	4,506.99	0.36	-0.20	-0.30
10,427.00	91.77	134.72	4,776.30	-2,535.60	3,983.24	4,600.96	2.72	2.67	0.53
10,520.00	91.99	134.35	4,773.25	-2,600.79	4,049.50	4,693.90	0.46	0.24	-0.40
10,615.00	92.07	134.04	4,769.88	-2,666.97	4,117.57	4,788.82	0.34	0.08	-0.33
10,709.00	91.80	136.58	4,766.71	-2,733.75	4,183.63	4,882.75	2.72	-0.29	2.70
10,803.00	92.11	136.67	4,763.50	-2,802.04	4,248.15	4,976.68	0.34	0.33	0.10
10,897.00	92.13	135.97	4,760.02	-2,869.97	4,313.02	5,070.60	0.74	0.02	-0.74
10,991.00	91.76	135.36	4,756.83	-2,937.17	4,378.68	5,164.55	0.76	-0.39	-0.65
11,086.00	91.99	135.51	4,753.72	-3,004.82	4,445.30	5,259.50	0.29	0.24	0.16
11,180.00	91.05	134.02	4,751.23	-3,070.98	4,512.02	5,353.45	1.87	-1.00	-1.59
11,274.00	91.50	135.90	4,749.14	-3,137.39	4,578.51	5,447.42	2.06	0.48	2.00
11,368.00	92.07	136.31	4,746.21	-3,205.09	4,643.66	5,541.37	0.75	0.61	0.44
11,462.00	92.60	135.73	4,742.38	-3,272.68	4,708.88	5,635.29	0.84	0.56	-0.62
11,556.00	91.09	136.93	4,739.35	-3,340.63	4,773.75	5,729.22	2.05	-1.61	1.28
11,650.00	90.35	136.14	4,738.17	-3,408.85	4,838.40	5,823.20	1.15	-0.79	-0.84
11,745.00	90.46	137.00	4,737.50	-3,477.84	4,903.71	5,918.18	0.91	0.12	0.91
11,838.00	88.76	138.06	4,738.13	-3,546.43	4,966.50	6,011.11	2.15	-1.83	1.14
11,933.00	88.99	137.17	4,740.00	-3,616.59	5,030.53	6,106.03	0.97	0.24	-0.94
12,027.00	90.03	138.29	4,740.80	-3,686.14	5,093.75	6,199.95	1.63	1.11	1.19
12,121.00	89.84	137.09	4,740.91	-3,755.65	5,157.02	6,293.87	1.29	-0.20	-1.28
12,215.00	89.93	136.36	4,741.10	-3,824.09	5,221.46	6,387.85	0.78	0.10	-0.78
12,309.00	89.84	135.95	4,741.29	-3,891.89	5,286.57	6,481.84	0.45	-0.10	-0.44
12,403.00	89.96	134.78	4,741.45	-3,958.77	5,352.62	6,575.84	1.25	0.13	-1.24
12,497.00	90.21	134.91	4,741.31	-4,025.06	5,419.26	6,669.84	0.30	0.27	0.14
12,592.00	89.85	134.37	4,741.26	-4,091.81	5,486.86	6,764.83	0.68	-0.38	-0.57
12,686.00	89.09	133.38	4,742.13	-4,156.96	5,554.62	6,858.78	1.33	-0.81	-1.05
12,780.00	90.78	133.61	4,742.24	-4,221.66	5,622.80	6,952.72	1.81	1.80	0.24
12,874.00	91.11	133.43	4,740.69	-4,286.38	5,690.96	7,046.66	0.40	0.35	-0.19
12,968.00	91.07	132.76	4,738.90	-4,350.59	5,759.59	7,140.56	0.71	-0.04	-0.71
13,062.00	91.81	134.54	4,736.54	-4,415.45	5,827.58	7,234.48	2.05	0.79	1.89
13,157.00	90.75	134.19	4,734.42	-4,481.86	5,895.47	7,329.43	1.18	-1.12	-0.37



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,251.00	93.04	135.99	4,731.31	-4,548.38	5,961.79	7,423.37	3.10	2.44	1.91
13,345.00	93.37	135.88	4,726.05	-4,615.82	6,027.07	7,517.22	0.37	0.35	-0.12
13,439.00	93.18	135.23	4,720.68	-4,682.82	6,092.78	7,611.07	0.72	-0.20	-0.69
13,533.00	91.92	136.95	4,716.50	-4,750.47	6,157.90	7,704.96	2.27	-1.34	1.83
13,628.00	90.70	134.95	4,714.33	-4,818.73	6,223.93	7,799.93	2.47	-1.28	-2.11
13,723.00	91.40	135.10	4,712.59	-4,885.92	6,291.07	7,894.91	0.75	0.74	0.16
13,817.00	90.72	138.39	4,710.85	-4,954.36	6,355.46	7,988.85	3.57	-0.72	3.50
13,912.00	88.31	139.07	4,711.65	-5,025.75	6,418.12	8,083.69	2.64	-2.54	0.72
14,006.00	88.12	138.44	4,714.58	-5,096.40	6,480.06	8,177.49	0.70	-0.20	-0.67
14,100.00	88.47	138.10	4,717.38	-5,166.52	6,542.60	8,271.33	0.52	0.37	-0.36
14,195.00	88.88	137.98	4,719.57	-5,237.14	6,606.10	8,366.21	0.45	0.43	-0.13
14,289.00	87.41	137.21	4,722.61	-5,306.51	6,669.45	8,460.10	1.77	-1.56	-0.82
14,383.00	87.47	134.23	4,726.81	-5,373.74	6,735.01	8,553.99	3.17	0.06	-3.17
14,477.00	88.21	132.33	4,730.36	-5,438.13	6,803.39	8,647.85	2.17	0.79	-2.02
14,571.00	88.20	131.49	4,733.30	-5,500.89	6,873.31	8,741.62	0.89	-0.01	-0.89
14,666.00	89.00	131.93	4,735.62	-5,564.08	6,944.21	8,836.39	0.96	0.84	0.46
14,726.90	89.11	131.67	4,736.63	-5,604.66	6,989.60	8,897.16	0.46	0.18	-0.43
LTP @ 14726.90 MD 4736.63 TVD									
14,760.00	89.17	131.53	4,737.12	-5,626.64	7,014.35	8,930.18	0.46	0.18	-0.43
Survey @ 14760.00 MD 4737.12 TVD									
14,779.00	89.17	131.53	4,737.40	-5,639.23	7,028.57	8,949.13	0.00	0.00	0.00
330 perpendicular @ 14779.00 MD 4737.40 TVD									
14,827.00	89.17	131.53	4,738.09	-5,671.05	7,064.50	8,997.01	0.00	0.00	0.00
5 1/2" Casing shoe @ 14827.00 MD 4738.09 TVD									
14,837.00	89.17	131.53	4,738.24	-5,677.68	7,071.99	9,006.99	0.00	0.00	0.00
Survey proj. to 14837 MD 4738.24 TVD 969.9 FSL 177.8 FEL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
451.00	450.98	2.43	2.44	MWD surveys
2,851.00	2,704.00	713.50	-5.10	9 5/8" Casing shoe @ 2851.00 MD 2704.00 TVD
5,189.62	4,739.00	1,203.45	325.02	FTP @ 5189.62 MD 4739.00 TVD
14,726.90	4,736.63	-5,604.66	6,989.60	LTP @ 14726.90 MD 4736.63 TVD
14,760.00	4,737.12	-5,626.64	7,014.35	Survey @ 14760.00 MD 4737.12 TVD
14,779.00	4,737.40	-5,639.23	7,028.57	330 perpendicular @ 14779.00 MD 4737.40 TVD
14,827.00	4,738.09	-5,671.05	7,064.50	5 1/2" Casing shoe @ 14827.00 MD 4738.09 TVD
14,837.00	4,738.24	-5,677.68	7,071.99	Survey proj. to 14837 MD 4738.24 TVD 969.9 FSL 177.8 FEL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Project	San Juan County, New Mexico NAD83 NM W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Greater Lybrook 57 Pad (53,54,55,56 & 57)				
Site Position:		Northing:	1,895,341.59 usft	Latitude:	36.20888700
From:	Lat/Long	Easting:	2,745,902.47 usft	Longitude:	-107.75601000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	Greater Lybrook Unit No. 056H, Surf loc: 1365 FSL 2007 FEL Section 23-T23N-T09W					
Well Position	+N/-S	0.00 ft	Northing:	1,895,352.13 usft	Latitude:	36.20891600
	+E/-W	0.00 ft	Easting:	2,745,885.35 usft	Longitude:	-107.75606800
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,802.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/13/2024	8.53	62.67	49,032.27480223

Design	MWD surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	135.47	

Survey Program	Date	2/28/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,789.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,883.00	14,760.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,837.00	14,837.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,895,352.13	2,745,885.35	36.20891600	-107.75606800	
8.00	0.00	0.00	8.00	0.00	0.00	1,895,352.13	2,745,885.35	36.20891600	-107.75606800	
451.00	0.89	45.15	450.98	2.43	2.44	1,895,354.56	2,745,887.79	36.20892266	-107.75605973	
MWD surveys										
480.00	1.10	50.21	479.98	2.76	2.81	1,895,354.89	2,745,888.16	36.20892359	-107.75605846	
539.00	1.04	61.11	538.97	3.38	3.72	1,895,355.51	2,745,889.07	36.20892529	-107.75605540	
599.00	1.06	58.04	598.96	3.94	4.66	1,895,356.07	2,745,890.01	36.20892682	-107.75605218	
659.00	0.94	63.47	658.95	4.46	5.58	1,895,356.58	2,745,890.93	36.20892823	-107.75604909	
720.00	0.97	51.51	719.94	5.00	6.43	1,895,357.13	2,745,891.78	36.20892972	-107.75604620	
781.00	1.48	33.29	780.93	5.98	7.26	1,895,358.11	2,745,892.61	36.20893241	-107.75604337	



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Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
840.00	3.12	18.99	839.88	8.14	8.20	1,895,360.26	2,745,893.55	36.20893833	-107.75604017
900.00	4.74	14.49	899.73	12.08	9.36	1,895,364.21	2,745,894.71	36.20894916	-107.75603626
959.00	6.34	10.44	958.46	17.64	10.56	1,895,369.77	2,745,895.91	36.20896445	-107.75603217
1,022.00	7.99	2.75	1,020.96	25.44	11.40	1,895,377.57	2,745,896.75	36.20898586	-107.75602930
1,085.00	9.12	3.66	1,083.26	34.80	11.93	1,895,386.92	2,745,897.28	36.20901156	-107.75602748
1,148.00	10.26	0.97	1,145.36	45.39	12.34	1,895,397.52	2,745,897.69	36.20904066	-107.75602605
1,212.00	11.57	0.14	1,208.20	57.51	12.45	1,895,409.64	2,745,897.80	36.20907395	-107.75602564
1,275.00	12.80	1.47	1,269.78	70.80	12.65	1,895,422.93	2,745,898.00	36.20911047	-107.75602495
1,338.00	13.96	0.51	1,331.07	85.38	12.89	1,895,437.51	2,745,898.24	36.20915051	-107.75602407
1,401.00	15.46	359.65	1,392.01	101.37	12.91	1,895,453.50	2,745,898.26	36.20919445	-107.75602397
1,464.00	16.64	357.91	1,452.55	118.78	12.53	1,895,470.91	2,745,897.88	36.20924228	-107.75602521
1,527.00	18.20	357.32	1,512.66	137.63	11.74	1,895,489.76	2,745,897.09	36.20929405	-107.75602784
1,590.00	20.97	358.51	1,572.01	158.73	10.99	1,895,510.86	2,745,896.34	36.20935202	-107.75603033
1,653.00	23.79	359.16	1,630.26	182.71	10.51	1,895,534.84	2,745,895.86	36.20941789	-107.75603189
1,716.00	25.43	359.84	1,687.53	208.94	10.28	1,895,561.07	2,745,895.63	36.20948996	-107.75603258
1,779.00	25.92	359.20	1,744.31	236.24	10.05	1,895,588.37	2,745,895.40	36.20956494	-107.75603329
1,842.00	25.98	359.36	1,800.96	263.80	9.71	1,895,615.93	2,745,895.06	36.20964067	-107.75603439
1,906.00	26.06	358.75	1,858.47	291.87	9.24	1,895,644.00	2,745,894.59	36.20971778	-107.75603588
1,969.00	26.14	359.56	1,915.05	319.59	8.84	1,895,671.72	2,745,894.19	36.20979391	-107.75603719
2,032.00	26.85	359.88	1,971.43	347.69	8.70	1,895,699.82	2,745,894.05	36.20987112	-107.75603758
2,095.00	27.13	0.32	2,027.57	376.28	8.75	1,895,728.41	2,745,894.10	36.20994966	-107.75603733
2,158.00	26.87	359.20	2,083.70	404.88	8.63	1,895,757.01	2,745,893.98	36.21002823	-107.75603766
2,221.00	25.85	358.61	2,140.15	432.85	8.10	1,895,784.98	2,745,893.45	36.21010506	-107.75603938
2,284.00	26.10	358.72	2,196.79	460.43	7.46	1,895,812.56	2,745,892.81	36.21018084	-107.75604149
2,347.00	26.70	359.12	2,253.22	488.44	6.93	1,895,840.57	2,745,892.28	36.21025778	-107.75604320
2,410.00	26.80	357.91	2,309.48	516.79	6.19	1,895,868.92	2,745,891.54	36.21033565	-107.75604561
2,473.00	26.15	356.73	2,365.87	544.84	4.88	1,895,896.97	2,745,890.23	36.21041272	-107.75604998
2,536.00	26.93	356.88	2,422.23	572.95	3.32	1,895,925.07	2,745,888.67	36.21048993	-107.75605522
2,599.00	27.05	356.32	2,478.37	601.49	1.62	1,895,953.62	2,745,886.97	36.21056834	-107.75606089
2,662.00	26.89	356.71	2,534.52	630.01	-0.12	1,895,982.13	2,745,885.23	36.21064668	-107.75606670
2,725.00	26.50	356.96	2,590.80	658.27	-1.68	1,896,010.39	2,745,883.67	36.21072432	-107.75607192
2,789.00	25.82	356.28	2,648.25	686.43	-3.34	1,896,038.56	2,745,882.01	36.21080170	-107.75607748
2,851.00	26.08	356.27	2,704.00	713.50	-5.10	1,896,065.63	2,745,880.25	36.21087607	-107.75608338
9 5/8" Casing shoe @ 2851.00 MD 2704.00 TVD									
2,883.00	26.21	356.27	2,732.72	727.57	-6.02	1,896,079.70	2,745,879.33	36.21091472	-107.75608645
2,977.00	26.06	355.38	2,817.11	768.87	-9.03	1,896,121.00	2,745,876.32	36.21102817	-107.75609655
3,071.00	26.35	358.97	2,901.46	810.31	-11.07	1,896,162.44	2,745,874.28	36.21114202	-107.75610335
3,166.00	26.47	359.02	2,986.54	852.56	-11.81	1,896,204.69	2,745,873.54	36.21125808	-107.75610575
3,260.00	25.40	359.82	3,071.07	893.67	-12.24	1,896,245.79	2,745,873.11	36.21137101	-107.75610707
3,355.00	24.54	358.66	3,157.19	933.76	-12.76	1,896,285.89	2,745,872.59	36.21148116	-107.75610874
3,449.00	24.00	357.78	3,242.89	972.38	-13.96	1,896,324.51	2,745,871.39	36.21158725	-107.75611269
3,544.00	25.41	358.23	3,329.19	1,012.06	-15.34	1,896,364.19	2,745,870.01	36.21169626	-107.75611726
3,638.00	23.26	355.67	3,414.83	1,050.73	-17.36	1,896,402.86	2,745,867.99	36.21180249	-107.75612402
3,733.00	24.76	356.32	3,501.61	1,089.29	-20.05	1,896,441.42	2,745,865.30	36.21190843	-107.75613304
3,827.00	26.18	357.79	3,586.47	1,129.66	-22.12	1,896,481.79	2,745,863.23	36.21201932	-107.75613993
3,921.00	26.33	356.52	3,670.78	1,171.19	-24.18	1,896,523.31	2,745,861.17	36.21213341	-107.75614682
4,015.00	24.39	354.24	3,755.72	1,211.31	-27.40	1,896,563.44	2,745,857.95	36.21224364	-107.75615760
4,110.00	22.33	351.69	3,842.93	1,248.69	-31.97	1,896,600.82	2,745,853.38	36.21234633	-107.75617302
4,203.00	18.89	347.69	3,929.97	1,280.89	-37.74	1,896,633.02	2,745,847.61	36.21243480	-107.75619247
4,235.00	17.72	346.96	3,960.35	1,290.70	-39.94	1,896,642.82	2,745,845.41	36.21246175	-107.75619992
4,266.00	18.44	348.96	3,989.82	1,300.10	-41.94	1,896,652.23	2,745,843.41	36.21248760	-107.75620668
4,298.00	20.57	354.93	4,019.98	1,310.67	-43.41	1,896,662.80	2,745,841.94	36.21251663	-107.75621162
4,329.00	22.79	3.16	4,048.79	1,322.10	-43.56	1,896,674.22	2,745,841.79	36.21254802	-107.75621210
4,360.00	24.55	11.87	4,077.19	1,334.40	-41.90	1,896,686.53	2,745,843.45	36.21258181	-107.75620646
4,392.00	24.81	20.41	4,106.28	1,347.20	-38.20	1,896,699.33	2,745,847.16	36.21261697	-107.75619384



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Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
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Design:	MWD surveys	Database:	DT_Feb1624_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,423.00	23.33	30.38	4,134.59	1,358.60	-32.82	1,896,710.73	2,745,852.53	36.21264826	-107.75617559
4,454.00	22.30	40.46	4,163.18	1,368.37	-25.90	1,896,720.50	2,745,859.45	36.21267510	-107.75615210
4,486.00	20.10	50.43	4,193.02	1,376.50	-17.71	1,896,728.63	2,745,867.64	36.21269740	-107.75612434
4,518.00	18.28	61.23	4,223.25	1,382.42	-9.07	1,896,734.55	2,745,876.28	36.21271365	-107.75609503
4,549.00	18.22	72.81	4,252.70	1,386.19	-0.18	1,896,738.32	2,745,885.17	36.21272400	-107.75606487
4,580.00	19.08	83.17	4,282.08	1,388.23	9.48	1,896,740.35	2,745,894.83	36.21272957	-107.75603210
4,612.00	20.67	91.74	4,312.18	1,388.68	20.33	1,896,740.81	2,745,905.68	36.21273078	-107.75599535
4,644.00	22.25	97.44	4,341.97	1,387.72	31.98	1,896,739.85	2,745,917.33	36.21272813	-107.75595584
4,675.00	24.49	99.92	4,370.42	1,385.86	44.13	1,896,737.98	2,745,929.48	36.21272297	-107.75591466
4,707.00	26.93	102.85	4,399.25	1,383.10	57.73	1,896,735.23	2,745,943.08	36.21271538	-107.75586856
4,738.00	28.93	104.75	4,426.64	1,379.63	71.83	1,896,731.76	2,745,957.18	36.21270581	-107.75582078
4,770.00	31.04	105.03	4,454.36	1,375.52	87.28	1,896,727.65	2,745,972.63	36.21269448	-107.75576841
4,801.00	33.13	105.57	4,480.62	1,371.17	103.16	1,896,723.30	2,745,988.51	36.21268251	-107.75571458
4,833.00	34.76	108.93	4,507.17	1,365.86	120.22	1,896,717.99	2,746,005.57	36.21266789	-107.75565678
4,864.00	36.20	114.13	4,532.42	1,359.25	136.94	1,896,711.38	2,746,022.29	36.21264969	-107.75560012
4,896.00	37.92	119.83	4,557.96	1,350.50	154.10	1,896,702.62	2,746,039.45	36.21262560	-107.75554197
4,927.00	39.61	124.58	4,582.14	1,340.15	170.50	1,896,692.27	2,746,055.85	36.21259713	-107.75548639
4,959.00	41.36	128.41	4,606.48	1,327.78	187.19	1,896,679.91	2,746,072.54	36.21256313	-107.75542986
4,990.00	44.17	131.72	4,629.24	1,314.23	203.28	1,896,666.36	2,746,088.63	36.21252586	-107.75537534
5,021.00	47.03	133.23	4,650.92	1,299.27	219.61	1,896,651.40	2,746,104.96	36.21248473	-107.75532003
5,053.00	50.95	132.43	4,671.92	1,282.86	237.32	1,896,634.99	2,746,122.67	36.21243962	-107.75526004
5,084.00	55.44	131.28	4,690.49	1,266.31	255.81	1,896,618.44	2,746,141.16	36.21239411	-107.75519742
5,116.00	59.82	131.39	4,707.61	1,248.46	276.10	1,896,600.59	2,746,161.45	36.21234503	-107.75512869
5,148.00	63.90	132.37	4,722.70	1,229.63	297.10	1,896,581.75	2,746,182.45	36.21229324	-107.75505755
5,179.00	68.43	133.52	4,735.23	1,210.31	317.85	1,896,562.44	2,746,203.19	36.21224013	-107.75498727
5,189.62	69.95	133.96	4,739.00	1,203.45	325.02	1,896,555.57	2,746,210.37	36.21222126	-107.75496298
FTP @ 5189.62 MD 4739.00 TVD									
5,210.00	72.86	134.77	4,745.50	1,189.94	338.82	1,896,542.07	2,746,224.17	36.21218413	-107.75491621
5,242.00	77.00	135.34	4,753.82	1,168.08	360.65	1,896,520.20	2,746,246.00	36.21212401	-107.75484229
5,273.00	80.63	136.59	4,759.83	1,146.22	381.78	1,896,498.34	2,746,267.13	36.21206391	-107.75477071
5,304.00	83.79	137.29	4,764.03	1,123.78	402.75	1,896,475.90	2,746,288.10	36.21200223	-107.75469970
5,336.00	85.90	137.92	4,766.91	1,100.24	424.23	1,896,452.37	2,746,309.58	36.21193753	-107.75462693
5,368.00	87.91	138.39	4,768.63	1,076.44	445.55	1,896,428.57	2,746,330.90	36.21187209	-107.75455474
5,399.00	88.88	138.51	4,769.50	1,053.25	466.10	1,896,405.38	2,746,351.45	36.21180834	-107.75448513
5,431.00	89.09	138.95	4,770.07	1,029.20	487.21	1,896,381.33	2,746,372.56	36.21174223	-107.75441365
5,526.00	89.29	138.06	4,771.41	958.05	550.14	1,896,310.18	2,746,435.49	36.21154664	-107.75420050
5,620.00	89.47	136.83	4,772.43	888.81	613.71	1,896,240.94	2,746,499.06	36.21135629	-107.75398521
5,715.00	89.41	135.76	4,773.36	820.14	679.35	1,896,172.27	2,746,564.69	36.21116750	-107.75376291
5,809.00	89.52	136.68	4,774.24	752.28	744.38	1,896,104.41	2,746,629.73	36.21098092	-107.75354264
5,904.00	89.82	136.05	4,774.78	683.52	809.93	1,896,035.65	2,746,695.28	36.21079190	-107.75332061
5,998.00	90.54	137.32	4,774.49	615.13	874.42	1,895,967.26	2,746,759.76	36.21060387	-107.75310222
6,092.00	90.26	137.42	4,773.83	545.97	938.08	1,895,898.10	2,746,823.43	36.21041375	-107.75288661
6,187.00	89.44	137.15	4,774.08	476.18	1,002.52	1,895,828.30	2,746,887.87	36.21022185	-107.75266836
6,281.00	89.36	136.69	4,775.06	407.52	1,066.72	1,895,759.65	2,746,952.07	36.21003311	-107.75245093
6,375.00	90.00	137.72	4,775.59	338.55	1,130.58	1,895,690.68	2,747,015.93	36.20984349	-107.75223465
6,469.00	89.98	138.36	4,775.61	268.65	1,193.43	1,895,620.78	2,747,078.78	36.20965132	-107.75202181
6,563.00	89.86	137.96	4,775.74	198.62	1,256.13	1,895,550.75	2,747,141.48	36.20945880	-107.75180946
6,657.00	89.87	137.70	4,775.96	128.95	1,319.24	1,895,481.08	2,747,204.58	36.20926726	-107.75159574
6,751.00	90.25	138.36	4,775.86	59.06	1,382.10	1,895,411.19	2,747,267.44	36.20907513	-107.75138286
6,846.00	88.93	136.09	4,776.54	-10.66	1,446.61	1,895,341.47	2,747,331.95	36.20888344	-107.75116439
6,940.00	90.23	138.18	4,777.23	-79.55	1,510.55	1,895,272.58	2,747,395.89	36.20869404	-107.75094785
7,035.00	91.19	134.91	4,776.05	-148.50	1,575.87	1,895,203.63	2,747,461.22	36.20850449	-107.75072661
7,129.00	92.07	133.90	4,773.38	-214.25	1,643.00	1,895,137.88	2,747,528.34	36.20832372	-107.75049926
7,223.00	91.74	133.67	4,770.25	-279.26	1,710.82	1,895,072.88	2,747,596.17	36.20814498	-107.75026954
7,318.00	91.25	133.35	4,767.77	-344.64	1,779.70	1,895,007.49	2,747,665.04	36.20796520	-107.75003626



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,412.00	91.80	132.85	4,765.27	-408.84	1,848.31	1,894,943.29	2,747,733.65	36.20778866	-107.74980388
7,507.00	89.13	132.45	4,764.50	-473.20	1,918.17	1,894,878.93	2,747,803.52	36.20761171	-107.74956725
7,601.00	89.21	132.09	4,765.86	-536.42	1,987.72	1,894,815.71	2,747,873.07	36.20743787	-107.74933168
7,695.00	90.66	134.36	4,765.97	-600.79	2,056.21	1,894,751.34	2,747,941.56	36.20726087	-107.74909971
7,789.00	90.79	134.03	4,764.78	-666.31	2,123.60	1,894,685.82	2,748,008.95	36.20708072	-107.74887148
7,883.00	89.64	135.20	4,764.43	-732.33	2,190.51	1,894,619.80	2,748,075.86	36.20689920	-107.74864487
7,977.00	89.87	134.49	4,764.83	-798.62	2,257.16	1,894,553.51	2,748,142.50	36.20671694	-107.74841915
8,071.00	89.28	135.81	4,765.53	-865.25	2,323.45	1,894,486.88	2,748,208.79	36.20653372	-107.74819465
8,166.00	90.58	137.13	4,765.64	-934.13	2,388.87	1,894,418.00	2,748,274.22	36.20634436	-107.74797308
8,260.00	88.25	137.68	4,766.60	-1,003.32	2,452.49	1,894,348.81	2,748,337.83	36.20615414	-107.74775766
8,354.00	88.67	136.77	4,769.13	-1,072.29	2,516.30	1,894,279.84	2,748,401.65	36.20596451	-107.74754157
8,448.00	88.62	136.45	4,771.35	-1,140.58	2,580.86	1,894,211.55	2,748,466.20	36.20577675	-107.74732295
8,543.00	88.45	135.27	4,773.78	-1,208.73	2,646.99	1,894,143.40	2,748,532.34	36.20558937	-107.74709898
8,637.00	88.57	135.20	4,776.23	-1,275.45	2,713.17	1,894,076.68	2,748,598.51	36.20540593	-107.74687488
8,731.00	88.59	134.82	4,778.56	-1,341.91	2,779.60	1,894,010.22	2,748,664.95	36.20522320	-107.74664989
8,826.00	87.89	133.06	4,781.47	-1,407.80	2,847.97	1,893,944.34	2,748,733.32	36.20504203	-107.74641834
8,919.00	88.23	132.60	4,784.62	-1,470.98	2,916.14	1,893,881.15	2,748,801.48	36.20486828	-107.74618748
9,014.00	91.14	133.20	4,785.14	-1,535.64	2,985.72	1,893,816.49	2,748,871.06	36.20469048	-107.74595182
9,108.00	91.85	133.31	4,782.69	-1,600.04	3,054.16	1,893,752.10	2,748,939.50	36.20451343	-107.74572005
9,202.00	91.60	136.01	4,779.86	-1,666.07	3,120.98	1,893,686.06	2,749,006.33	36.20433185	-107.74549374
9,296.00	91.39	135.44	4,777.41	-1,733.35	3,186.58	1,893,618.78	2,749,071.92	36.20414686	-107.74527160
9,391.00	91.86	135.77	4,774.71	-1,801.21	3,253.02	1,893,550.93	2,749,138.36	36.20396030	-107.74504662
9,485.00	91.68	134.92	4,771.81	-1,868.04	3,319.05	1,893,484.09	2,749,204.39	36.20377653	-107.74482300
9,579.00	91.59	134.52	4,769.13	-1,934.16	3,385.82	1,893,417.98	2,749,271.16	36.20359474	-107.74459690
9,674.00	91.74	134.05	4,766.37	-2,000.46	3,453.79	1,893,351.68	2,749,339.14	36.20341243	-107.74436669
9,768.00	88.74	136.14	4,765.98	-2,067.02	3,520.14	1,893,285.11	2,749,405.48	36.20322940	-107.74414202
9,862.00	87.97	135.83	4,768.67	-2,134.60	3,585.43	1,893,217.54	2,749,470.77	36.20304360	-107.74392094
9,956.00	88.14	135.49	4,771.86	-2,201.79	3,651.09	1,893,150.35	2,749,536.43	36.20285886	-107.74369859
10,050.00	89.41	136.51	4,773.87	-2,269.39	3,716.37	1,893,082.75	2,749,601.71	36.20267299	-107.74347753
10,144.00	89.23	135.38	4,774.99	-2,336.94	3,781.73	1,893,015.20	2,749,667.07	36.20248726	-107.74325622
10,239.00	89.45	134.50	4,776.08	-2,404.04	3,848.97	1,892,948.10	2,749,734.31	36.20230276	-107.74302852
10,333.00	89.26	134.22	4,777.14	-2,469.75	3,916.17	1,892,882.38	2,749,801.51	36.20212205	-107.74280095
10,427.00	91.77	134.72	4,776.30	-2,535.60	3,983.24	1,892,816.54	2,749,868.58	36.20194101	-107.74257382
10,520.00	91.99	134.35	4,773.25	-2,600.79	4,049.50	1,892,751.35	2,749,934.84	36.20176175	-107.74234946
10,615.00	92.07	134.04	4,769.88	-2,666.97	4,117.57	1,892,685.17	2,750,002.91	36.20157977	-107.74211895
10,709.00	91.80	136.58	4,766.71	-2,733.75	4,183.63	1,892,618.38	2,750,068.97	36.20139614	-107.74189524
10,803.00	92.11	136.67	4,763.50	-2,802.04	4,248.15	1,892,550.10	2,750,133.49	36.20120838	-107.74167678
10,897.00	92.13	135.97	4,760.02	-2,869.97	4,313.02	1,892,482.16	2,750,198.36	36.20102159	-107.74145711
10,991.00	91.76	135.36	4,756.83	-2,937.17	4,378.68	1,892,414.97	2,750,264.02	36.20083682	-107.74123480
11,086.00	91.99	135.51	4,753.72	-3,004.82	4,445.30	1,892,347.32	2,750,330.65	36.20065082	-107.74100919
11,180.00	91.05	134.02	4,751.23	-3,070.98	4,512.02	1,892,281.15	2,750,397.36	36.20046887	-107.74078328
11,274.00	91.50	135.90	4,749.14	-3,137.39	4,578.51	1,892,214.75	2,750,463.85	36.20028628	-107.74055812
11,368.00	92.07	136.31	4,746.21	-3,205.09	4,643.66	1,892,147.05	2,750,529.00	36.20010012	-107.74033755
11,462.00	92.60	135.73	4,742.38	-3,272.68	4,708.88	1,892,079.46	2,750,594.22	36.19991429	-107.74011671
11,556.00	91.09	136.93	4,739.35	-3,340.63	4,773.75	1,892,011.51	2,750,659.09	36.19972744	-107.73989707
11,650.00	90.35	136.14	4,738.17	-3,408.85	4,838.40	1,891,943.29	2,750,723.74	36.19953987	-107.73967814
11,745.00	90.46	137.00	4,737.50	-3,477.84	4,903.71	1,891,874.30	2,750,789.05	36.19935018	-107.73945702
11,838.00	88.76	138.06	4,738.13	-3,546.43	4,966.50	1,891,805.71	2,750,851.84	36.19916158	-107.73924443
11,933.00	88.99	137.17	4,740.00	-3,616.59	5,030.53	1,891,735.55	2,750,915.87	36.19896868	-107.73902765
12,027.00	90.03	138.29	4,740.80	-3,686.14	5,093.75	1,891,666.00	2,750,979.09	36.19877744	-107.73881360
12,121.00	89.84	137.09	4,740.91	-3,755.65	5,157.02	1,891,596.48	2,751,042.36	36.19858631	-107.73859937
12,215.00	89.93	136.36	4,741.10	-3,824.09	5,221.46	1,891,528.05	2,751,106.80	36.19839813	-107.73838120
12,309.00	89.84	135.95	4,741.29	-3,891.89	5,286.57	1,891,460.25	2,751,171.91	36.19821172	-107.73816073
12,403.00	89.96	134.78	4,741.45	-3,958.77	5,352.62	1,891,393.36	2,751,237.96	36.19802779	-107.73793712
12,497.00	90.21	134.91	4,741.31	-4,025.06	5,419.26	1,891,327.08	2,751,304.60	36.19784551	-107.73771146



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 056H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 056H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Feb1624_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,592.00	89.85	134.37	4,741.26	-4,091.81	5,486.86	1,891,260.32	2,751,372.20	36.19766196	-107.73748258
12,686.00	89.09	133.38	4,742.13	-4,156.96	5,554.62	1,891,195.18	2,751,439.95	36.19748281	-107.73725315
12,780.00	90.78	133.61	4,742.24	-4,221.66	5,622.80	1,891,130.48	2,751,508.14	36.19730490	-107.73702226
12,874.00	91.11	133.43	4,740.69	-4,286.38	5,690.96	1,891,065.76	2,751,576.30	36.19712692	-107.73679149
12,968.00	91.07	132.76	4,738.90	-4,350.59	5,759.59	1,891,001.55	2,751,644.92	36.19695034	-107.73655911
13,062.00	91.81	134.54	4,736.54	-4,415.45	5,827.58	1,890,936.69	2,751,712.91	36.19677198	-107.73632889
13,157.00	90.75	134.19	4,734.42	-4,481.86	5,895.47	1,890,870.28	2,751,780.81	36.19658936	-107.73609900
13,251.00	93.04	135.99	4,731.31	-4,548.38	5,961.79	1,890,803.76	2,751,847.13	36.19640642	-107.73587445
13,345.00	93.37	135.88	4,726.05	-4,615.82	6,027.07	1,890,736.32	2,751,912.40	36.19622098	-107.73565346
13,439.00	93.18	135.23	4,720.68	-4,682.82	6,092.78	1,890,669.32	2,751,978.12	36.19603674	-107.73543097
13,533.00	91.92	136.95	4,716.50	-4,750.47	6,157.90	1,890,601.67	2,752,043.24	36.19585072	-107.73521049
13,628.00	90.70	134.95	4,714.33	-4,818.73	6,223.93	1,890,533.41	2,752,109.27	36.19566303	-107.73498693
13,723.00	91.40	135.10	4,712.59	-4,885.92	6,291.07	1,890,466.22	2,752,176.40	36.19547826	-107.73475963
13,817.00	90.72	138.39	4,710.85	-4,954.36	6,355.46	1,890,397.78	2,752,240.80	36.19529007	-107.73454163
13,912.00	88.31	139.07	4,711.65	-5,025.75	6,418.12	1,890,326.39	2,752,303.45	36.19509377	-107.73432953
14,006.00	88.12	138.44	4,714.58	-5,096.40	6,480.06	1,890,255.74	2,752,365.39	36.19489953	-107.73411984
14,100.00	88.47	138.10	4,717.38	-5,166.52	6,542.60	1,890,185.62	2,752,427.94	36.19470672	-107.73390813
14,195.00	88.88	137.98	4,719.57	-5,237.14	6,606.10	1,890,115.00	2,752,491.44	36.19451253	-107.73369316
14,289.00	87.41	137.21	4,722.61	-5,306.51	6,669.45	1,890,045.63	2,752,554.79	36.19432179	-107.73347868
14,383.00	87.47	134.23	4,726.81	-5,373.74	6,735.01	1,889,978.40	2,752,620.35	36.19413693	-107.73325674
14,477.00	88.21	132.33	4,730.36	-5,438.13	6,803.39	1,889,914.01	2,752,688.73	36.19395984	-107.73302522
14,571.00	88.20	131.49	4,733.30	-5,500.89	6,873.31	1,889,851.25	2,752,758.65	36.19378725	-107.73278847
14,666.00	89.00	131.93	4,735.62	-5,564.08	6,944.21	1,889,788.06	2,752,829.54	36.19361346	-107.73254841
14,726.90	89.11	131.67	4,736.63	-5,604.66	6,989.60	1,889,747.48	2,752,874.94	36.19350183	-107.73239472
LTP @ 14726.90 MD 4736.63 TVD									
14,760.00	89.17	131.53	4,737.12	-5,626.64	7,014.35	1,889,725.50	2,752,899.68	36.19344140	-107.73231092
Survey @ 14760.00 MD 4737.12 TVD									
14,779.00	89.17	131.53	4,737.40	-5,639.23	7,028.57	1,889,712.91	2,752,913.91	36.19340675	-107.73226276
330 perpendicular @ 14779.00 MD 4737.40 TVD									
14,827.00	89.17	131.53	4,738.09	-5,671.05	7,064.50	1,889,681.09	2,752,949.84	36.19331923	-107.73214111
5 1/2" Casing shoe @ 14827.00 MD 4738.09 TVD									
14,837.00	89.17	131.53	4,738.24	-5,677.68	7,071.99	1,889,674.46	2,752,957.32	36.19330100	-107.73211576
Survey proj. to 14837 MD 4738.24 TVD 969.9 FSL 177.8 FEL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
451.00	450.98	2.43	2.44	MWD surveys
2,851.00	2,704.00	713.50	-5.10	9 5/8" Casing shoe @ 2851.00 MD 2704.00 TVD
5,189.62	4,739.00	1,203.45	325.02	FTP @ 5189.62 MD 4739.00 TVD
14,726.90	4,736.63	-5,604.66	6,989.60	LTP @ 14726.90 MD 4736.63 TVD
14,760.00	4,737.12	-5,626.64	7,014.35	Survey @ 14760.00 MD 4737.12 TVD
14,779.00	4,737.40	-5,639.23	7,028.57	330 perpendicular @ 14779.00 MD 4737.40 TVD
14,827.00	4,738.09	-5,671.05	7,064.50	5 1/2" Casing shoe @ 14827.00 MD 4738.09 TVD
14,837.00	4,738.24	-5,677.68	7,071.99	Survey proj. to 14837 MD 4738.24 TVD 969.9 FSL 177.8 FEL

WELL NAME: GREATER LYBROOK UNIT 056H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation

API Number: 30-045-38310
AFE Number: DV03074
ER Well Number: NM8269.01

State: New Mexico
County: San Juan

Surface Elev.: 6,802 ft ASL (GL) 6,827 ft ASL (KB)
Surface Location: 23-23N-09W Sec-Twn- Rng 1,365 ft FSL 2,007 ft FEL
BH Location: 25-23N-09W Sec-Twn- Rng 1029 ft FSL 236 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; Right (Northwest) for 0.3 miles to new access road; Left on access road for 0.2 miles to W LYBROOK UNIT 772H PAD (772H, 773H, 774H, 775H, 776H wells).

QUICK REFERENCE	
Sur TD (MD)	377 ft
Int TD (MD)	2,843 ft
KOP (MD)	4,291 ft
KOP (TVD)	4,004 ft
Target (TVD)	4,780 ft
Curve BUR	10 °/100 ft
POE (MD)	5,451 ft
TD (MD)	14,837 ft
Lat Len (ft)	9,277 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	377	13.375	54.5	J-55	BTC	0	377
Intermediate	12.250	2,843	9.625	36.0	J-55	LTC	0	2,843
Production	8.500	14,827	5.500	17.0	P-110	LTC	0	14,827

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE III	14.6	1.38	6.65	0.6946	100%	0	352
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	547
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,312	137
Prod. (Lead)	Type III	12.4	2.260	12.7	0.2691	65%	0	565
Prod. (Tail)	G:POZ blend	13.3	1.570	7.7	0.13052916	10%	3,355	1,678

COMPLETION / PRODUCTION SUMMARY:

Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,000,000 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	417	417
Kirtland	520	520
Fruitland	720	720
Pictured Cliffs	1,100	1,101
Lewis	1,222	1,226
Chacra	1,491	1,507
Cliff House	2,548	2,676
Menefee	2,573	2,704
Point Lookout	3,530	3,765
Mancos	3,675	3,926
Gallup (MNCS_A)	4,035	4,326
MNCS_B	4,146	4,443
MNCS_C	4,236	4,536
MNCS_Cms	4,276	4,578
MNCS_D	4,425	4,740
MNCS_E	4,540	4,878
MNCS_F	4,603	4,966
MNCS_G	4,674	5,089
MNCS_H	4,719	5,181
MNCS_I	4,763	5,307
FTP TARGET	4,780	5,451
PROJECTED TD	4,727	14,728

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

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

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

ACKNOWLEDGMENTS

Action 318998

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 318998
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

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

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CONDITIONS

Action 318998

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 318998
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 6/20/2024.	6/26/2024