

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 ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Form C-104
Revised August 1, 2011

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 30-045-38308	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number 054H

II. 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		1386'	SOUTH	2041'	EAST	SAN JUAN

¹¹ Bottom Hole Location

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		162'	SOUTH	1076'	EAST	SAN JUAN

¹² Lse Code N	¹³ Producing Method Code	¹⁴ Gas Connection Date 4/3/24	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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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 8/27/2023	²² Ready Date 4/3/24	²³ TD 14,727' MD 4,692' TVD	²⁴ PBDT 14,646' MD 4,692' TVD	²⁵ Perforations 5,160' - 14,570' MD 4,738'-4,700' TVD AlphaSleeve set at 14,600'	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	370' MD	352 sx		
12.25"	9.625", 36#, J-55	2,812' MD	762 sx		
8.5"	5.5", 17#, P-110	14,691' MD	2,233 sx		
	2.875", 6.5#, L80	5,119			

V. Well Test Data

³¹ Date New Oil 4/7/2024	³² Gas Delivery Date 4/3/2024	³³ Test Date 4/8/24	³⁴ Test Length 24	³⁵ Tbg. Pressure 151	³⁶ Csg. Pressure 754
³⁷ Choke Size 48/64	³⁸ Oil 214	³⁹ Water 530	⁴⁰ Gas 1647		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: *Heather Huntington*

Printed name: Heather Huntington

Title: Permitting Technician

E-mail Address: hhuntington@enduringresources.com

Date: 5/7/24

Phone: 505-636-9751

OIL CONSERVATION DIVISION

Approved by: *PATRICIA MARTINEZ*Title: *PETROLEUM SPECIALIST*Approval Date: *6/26/2024*



ENDURING RESOURCES IV LLC

February 27, 2024

Re: GREATER LYBROOK UNIT 054H-30-045-38308

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) 393-6161 Fax: (575) 393-0720

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

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Phone: (505) 476-3460 Fax: (505) 476-3462

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Santa Fe, NM 87505

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38308	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 054H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6802'

¹⁰ Surface Location

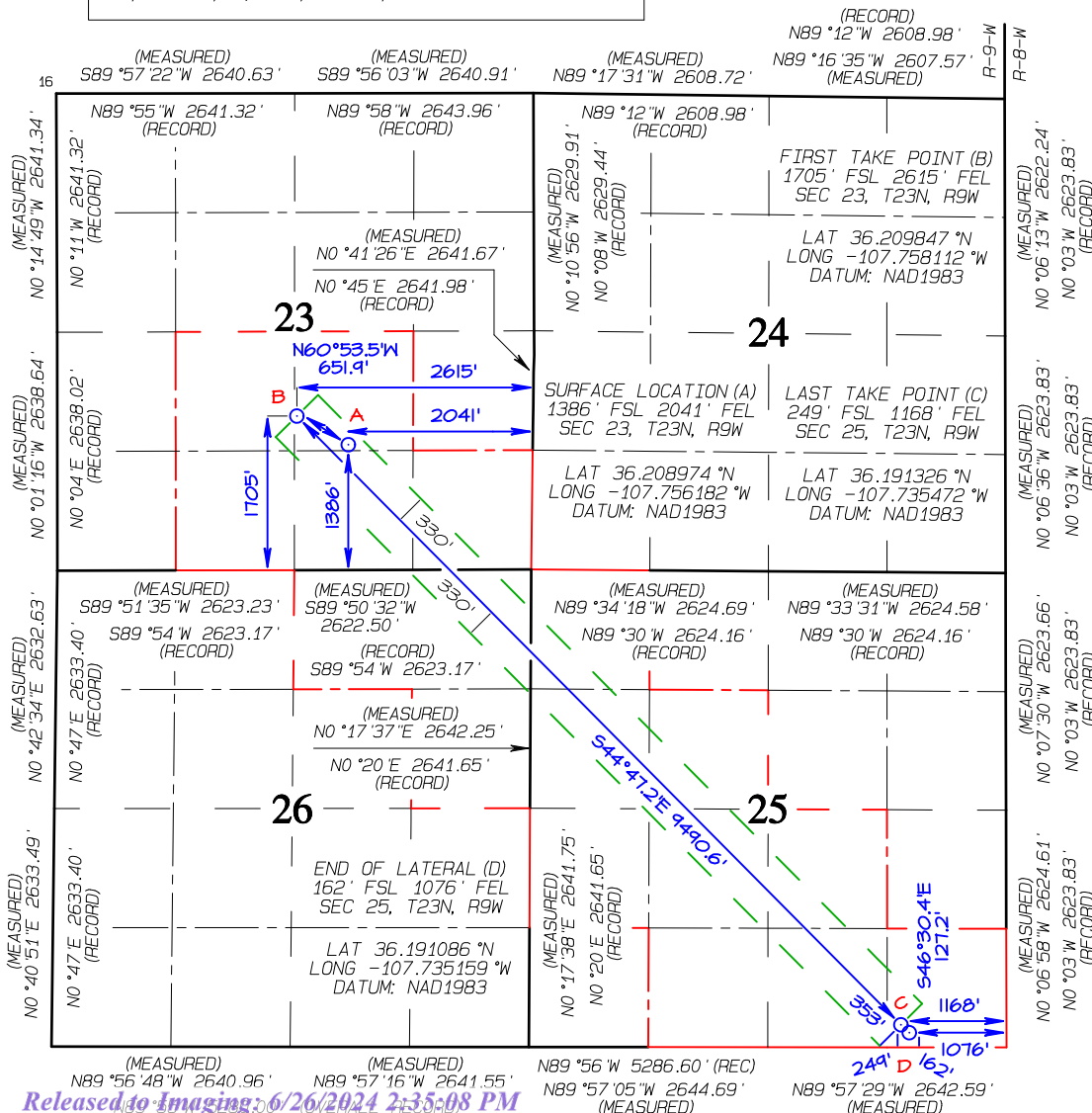
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P	25	23N	9W		162	SOUTH	1076	EAST	SAN JUAN

¹² Dedicated Acres 680.0	E/2 SW/4, NW/4 SE/4 S/2 SE/4 - Section 23 NW/4 NW/4, S/2 NW/4 N/2 SW/4, SE/4 SW/4 NW/4 SE/4, S/2 SE/4 - Section 25 N/2 NE/4, SE/4 NE/4 - Section 26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-22081
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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 2/20/24
Printed Name **Heather Huntington**
E-mail Address **hhuntington@enduringresources.com**

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 20, 2024
Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

District I
1025 N. French Drive, Hobbs, NM 88240
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⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6802'

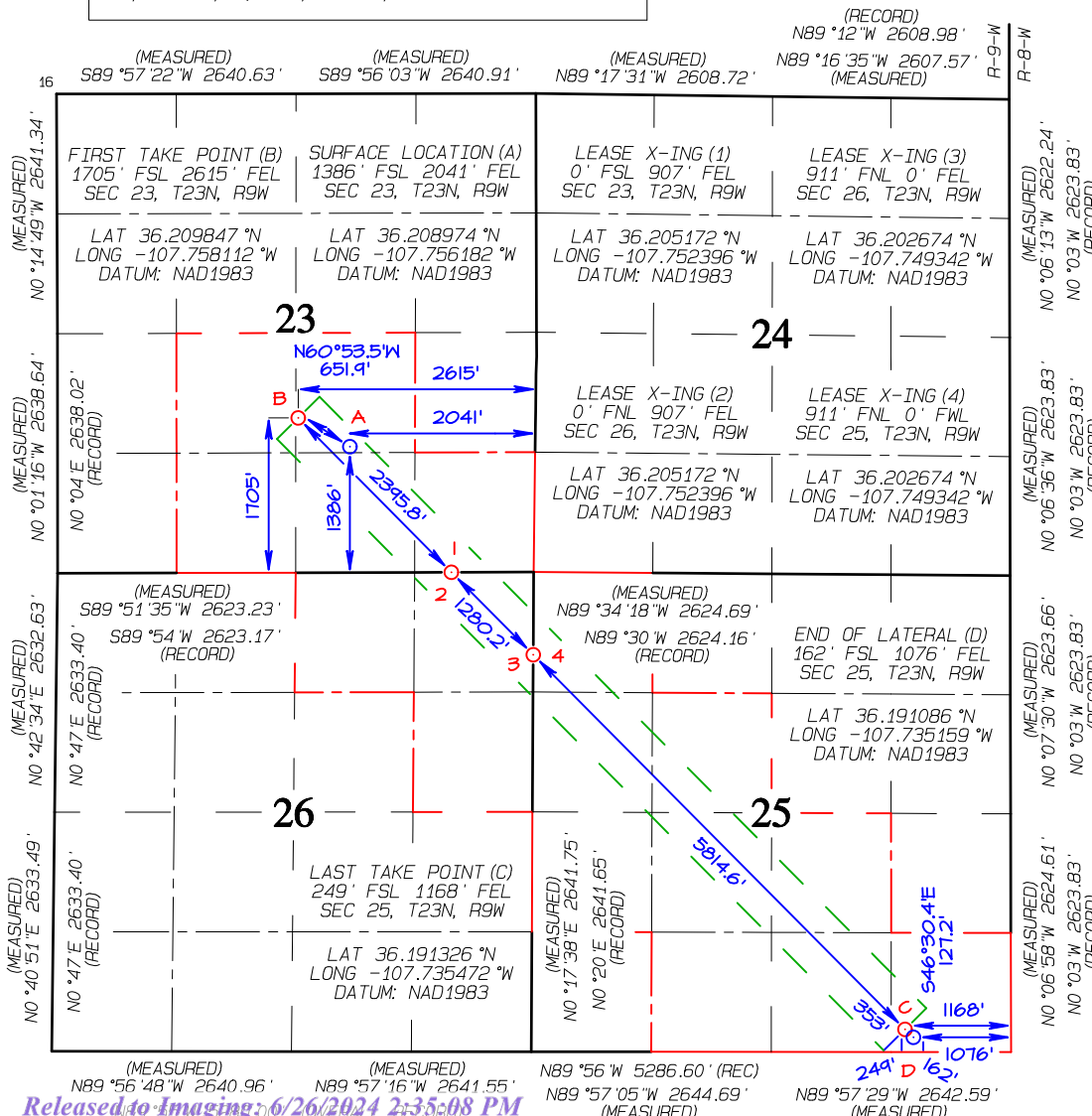
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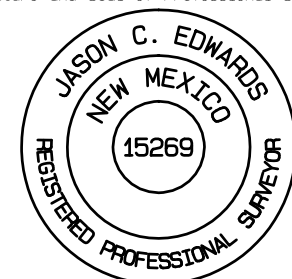
Signature Heather Huntington Date 2/20/24
Printed Name hhuntington@enduringresources.com
E-mail Address

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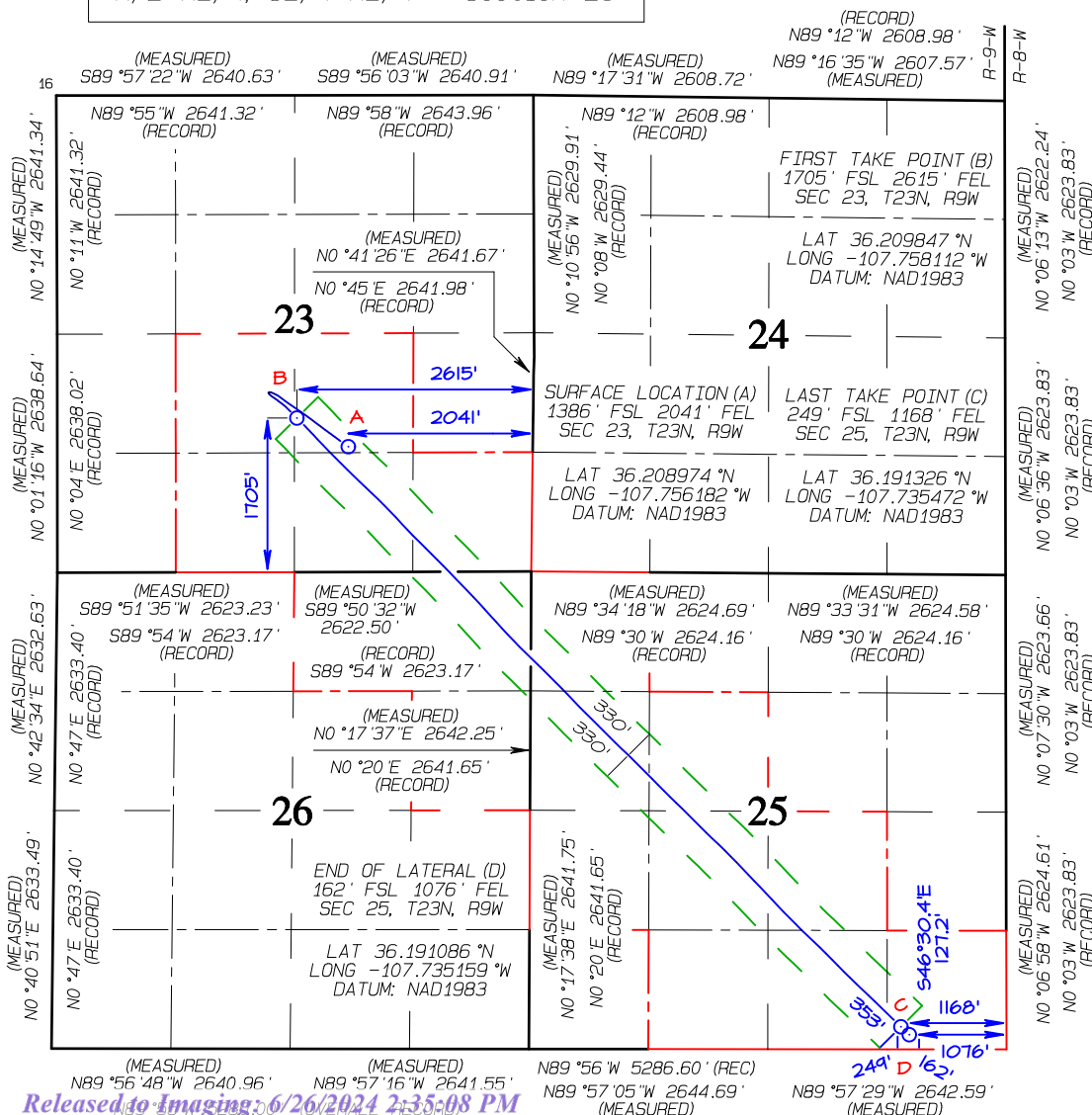
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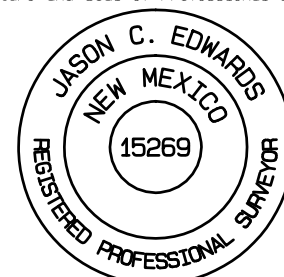
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Signature Heather Huntington Date 2/20/24
Printed Name **Heather Huntington**
E-mail Address **hhuntington@enduringresources.com**

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Date Revised: FEBRUARY 20, 2024
Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Well: Greater Lybrook Unit No. 054H
Site: Greater Lybrook 57 Pad (53,54,55,56 & 57)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev5 RKB=25 ft
Rig: Aztec 1000

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
G Lybrook 054 LTP 232 FSL 1160 FEL r5	4701.00	-6436.19	6124.62	1888937.04	2751976.31	36.19127800	-107.73544300
G Lybrook 054 vs=3440 r5	4757.00	-2570.94	2291.83	1892802.28	2748143.53	36.20190613	-107.74842087
G Lybrook 054 vs=0 r5	4759.00	-128.25	-130.36	1895244.96	2745721.34	36.20862197	-107.75662423
G Lybrook 054 FTP 1571 FSL 2430 FEL r5	4780.00	183.16	-386.31	1895556.38	2745465.40	36.20947800	-107.75749100

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
455.00	0.75	139.88	454.99	-2.24	1.89	2.92	MWD surveys
14615.00	91.88	133.72	4696.18	-6429.15	6127.11	8880.07	330 ppd @ 14615.00 MD 4696.18 TVD
14666.00	92.01	133.38	4694.46	-6464.27	6164.06	8931.01	Survey @ 14666.00 MD 4694.46 TVD
14727.00	92.01	133.38	4692.32	-6506.14	6208.36	8991.93	Survey proj. to 14727 MD 4692.32 TVD 161 FSL 1076 FEL

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: 1895373.21 Easting: 2745851.70 Latitude: 36.20897400 Longitude: -107.75618200

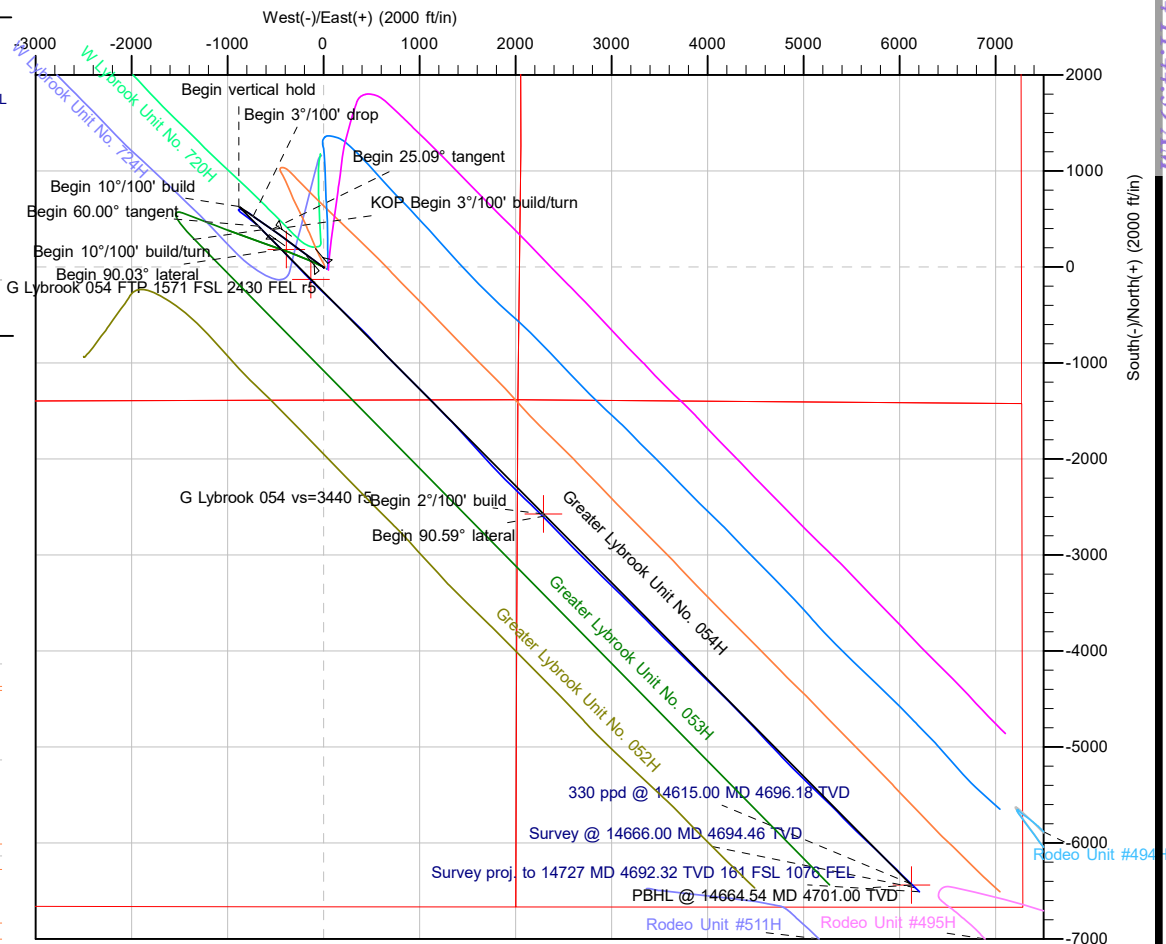
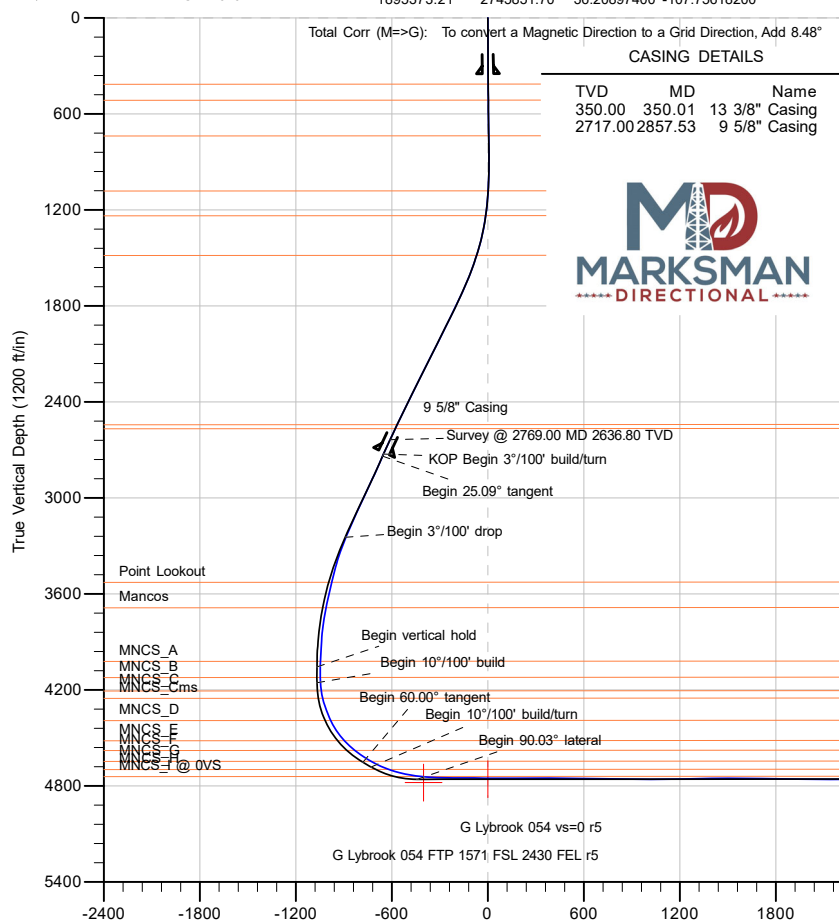


Magnetic Field
 Strength: 49032.4nT
 Dip Angle: 62.67°
 Date: 1/13/2024
 Model: IGRF2020

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

CASING DETAILS

TVD	MD	Name
350.00	350.01	13 3/8" Casing
2717.00	2857.53	9 5/8" Casing



Vertical Section at 135.47° (1200 ft/in)



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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. 054H, Surf loc: 1386 FSL 2041 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,895,373.22 usft	Latitude:	36.20897400
	+E/-W	0.00 ft	Easting:	2,745,851.70 usft	Longitude:	-107.75618200
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	49,032.35279017

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	2/10/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,769.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,852.00	14,666.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,727.00	14,727.00	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	
455.00	0.75	139.88	454.99	-2.24	1.89	2.92	0.17	0.17	0.00	
MWD surveys										
514.00	0.62	137.47	513.98	-2.77	2.35	3.62	0.23	-0.22	-4.08	
574.00	0.58	140.64	573.98	-3.24	2.76	4.25	0.09	-0.07	5.28	
634.00	0.48	139.55	633.98	-3.67	3.12	4.80	0.17	-0.17	-1.82	
694.00	0.46	155.76	693.98	-4.08	3.38	5.28	0.22	-0.03	27.02	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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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)
754.00	0.32	144.21	753.97	-4.43	3.58	5.67	0.27	-0.23	-19.25
815.00	0.34	147.87	814.97	-4.73	3.77	6.01	0.05	0.03	6.00
875.00	0.32	148.98	874.97	-5.02	3.95	6.35	0.03	-0.03	1.85
934.00	0.23	127.58	933.97	-5.23	4.13	6.63	0.23	-0.15	-36.27
998.00	0.67	309.29	997.97	-5.07	3.94	6.38	1.41	0.69	-278.58
1,029.00	1.56	313.40	1,028.96	-4.67	3.50	5.78	2.88	2.87	13.26
1,092.00	3.61	305.52	1,091.90	-2.93	1.26	2.97	3.29	3.25	-12.51
1,155.00	5.86	307.64	1,154.68	0.19	-2.90	-2.17	3.58	3.57	3.37
1,219.00	8.06	309.86	1,218.20	5.06	-8.93	-9.87	3.46	3.44	3.47
1,282.00	10.29	306.96	1,280.39	11.27	-16.82	-19.83	3.61	3.54	-4.60
1,345.00	12.52	303.76	1,342.15	18.45	-27.00	-32.09	3.68	3.54	-5.08
1,408.00	14.71	304.23	1,403.37	26.75	-39.29	-46.62	3.48	3.48	0.75
1,471.00	16.62	305.10	1,464.03	36.43	-53.27	-63.33	3.05	3.03	1.38
1,534.00	18.75	306.58	1,524.05	47.65	-68.78	-82.20	3.46	3.38	2.35
1,597.00	20.88	307.38	1,583.31	60.50	-85.83	-103.32	3.41	3.38	1.27
1,660.00	22.79	307.92	1,641.79	74.81	-104.38	-126.53	3.05	3.03	0.86
1,723.00	24.44	307.32	1,699.51	90.21	-124.37	-151.53	2.65	2.62	-0.95
1,786.00	25.38	306.53	1,756.65	106.15	-145.59	-177.77	1.58	1.49	-1.25
1,849.00	26.08	306.19	1,813.41	122.37	-167.61	-204.78	1.14	1.11	-0.54
1,913.00	26.53	305.86	1,870.78	139.05	-190.55	-232.75	0.74	0.70	-0.52
1,976.00	26.46	305.42	1,927.16	155.42	-213.39	-260.45	0.33	-0.11	-0.70
2,039.00	26.80	305.96	1,983.48	171.90	-236.32	-288.27	0.66	0.54	0.86
2,102.00	27.15	306.17	2,039.63	188.72	-259.42	-316.47	0.58	0.56	0.33
2,165.00	27.63	307.21	2,095.56	206.04	-282.66	-345.11	1.08	0.76	1.65
2,228.00	27.00	306.95	2,151.54	223.47	-305.73	-373.71	1.02	-1.00	-0.41
2,291.00	26.07	306.06	2,207.90	240.22	-328.35	-401.51	1.61	-1.48	-1.41
2,354.00	26.51	306.73	2,264.38	256.77	-350.81	-429.06	0.84	0.70	1.06
2,417.00	27.09	307.17	2,320.62	273.85	-373.51	-457.16	0.97	0.92	0.70
20" Casing									
2,480.00	26.96	306.90	2,376.74	291.09	-396.36	-485.47	0.28	-0.21	-0.43
2,543.00	26.36	306.86	2,433.04	308.05	-418.97	-513.42	0.95	-0.95	-0.06
2,606.00	25.90	306.54	2,489.60	324.64	-441.21	-540.84	0.76	-0.73	-0.51
2,669.00	25.47	305.63	2,546.38	340.72	-463.28	-567.78	0.93	-0.68	-1.44
2,732.00	25.24	305.89	2,603.31	356.49	-485.17	-594.37	0.41	-0.37	0.41
2,769.00	25.06	305.60	2,636.80	365.67	-497.93	-609.87	0.59	-0.49	-0.78
2,852.00	24.88	306.34	2,712.04	386.25	-526.29	-644.43	0.43	-0.22	0.89
2,883.00	24.88	304.13	2,740.17	393.77	-536.94	-657.26	3.00	0.00	-7.13
2,978.00	24.43	302.45	2,826.51	415.53	-570.06	-696.00	0.88	-0.47	-1.77
3,072.00	25.92	306.11	2,911.58	438.07	-603.07	-735.21	2.29	1.59	3.89
3,166.00	25.13	305.02	2,996.41	461.63	-636.01	-775.11	0.98	-0.84	-1.16
3,261.00	24.32	303.71	3,082.70	484.06	-668.80	-814.10	1.03	-0.85	-1.38
3,355.00	24.92	307.40	3,168.16	506.84	-700.64	-852.66	1.76	0.64	3.93
3,450.00	21.83	306.79	3,255.35	529.58	-730.69	-889.95	3.26	-3.25	-0.64
3,544.00	19.42	306.61	3,343.32	549.36	-757.24	-922.67	2.56	-2.56	-0.19



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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)
3,639.00	15.70	301.84	3,433.88	565.57	-780.84	-950.78	4.20	-3.92	-5.02
3,733.00	13.90	296.81	3,524.76	577.37	-801.73	-973.84	2.35	-1.91	-5.35
3,827.00	14.28	295.25	3,615.93	587.41	-822.29	-995.41	0.57	0.40	-1.66
3,921.00	11.43	290.77	3,707.57	595.66	-841.49	-1,014.76	3.21	-3.03	-4.77
4,015.00	8.61	285.18	3,800.13	600.81	-856.99	-1,029.30	3.17	-3.00	-5.95
4,110.00	5.71	272.61	3,894.38	602.89	-868.58	-1,038.91	3.45	-3.05	-13.23
4,204.00	3.69	259.32	3,988.06	602.54	-876.22	-1,044.02	2.43	-2.15	-14.14
4,298.00	3.50	233.58	4,081.89	600.27	-881.50	-1,046.11	1.71	-0.20	-27.38
4,329.00	3.41	234.14	4,112.83	599.17	-883.01	-1,046.38	0.31	-0.29	1.81
4,361.00	3.66	202.99	4,144.77	597.67	-884.18	-1,046.13	5.98	0.78	-97.34
4,392.00	5.90	170.56	4,175.67	595.19	-884.31	-1,044.45	11.05	7.23	-104.61
4,423.00	9.25	154.46	4,206.40	591.37	-882.97	-1,040.79	12.69	10.81	-51.94
4,455.00	11.96	140.63	4,237.85	586.48	-879.76	-1,035.06	11.56	8.47	-43.22
4,486.00	15.09	133.54	4,267.99	581.22	-874.80	-1,027.82	11.41	10.10	-22.87
4,518.00	17.75	134.58	4,298.68	574.93	-868.30	-1,018.78	8.36	8.31	3.25
4,549.00	19.97	131.90	4,328.02	568.07	-860.99	-1,008.77	7.69	7.16	-8.65
4,581.00	22.77	126.28	4,357.82	560.76	-851.93	-997.20	10.83	8.75	-17.56
4,612.00	25.65	122.99	4,386.09	553.55	-841.46	-984.72	10.26	9.29	-10.61
4,644.00	28.53	123.23	4,414.57	545.59	-829.26	-970.49	9.01	9.00	0.75
4,675.00	31.97	124.57	4,441.35	536.87	-816.31	-955.19	11.31	11.10	4.32
4,707.00	35.69	126.93	4,467.93	526.46	-801.86	-937.63	12.33	11.63	7.38
4,738.00	39.27	127.89	4,492.52	514.99	-786.89	-918.96	11.70	11.55	3.10
4,770.00	43.19	127.31	4,516.59	502.13	-770.18	-898.07	12.31	12.25	-1.81
4,802.00	46.35	126.38	4,539.30	488.62	-752.14	-875.80	10.08	9.88	-2.91
4,833.00	49.38	127.50	4,560.10	474.80	-733.77	-853.06	10.13	9.77	3.61
4,864.00	51.47	129.84	4,579.85	459.87	-715.13	-829.34	8.90	6.74	7.55
4,896.00	53.75	131.53	4,599.28	443.30	-695.85	-804.01	8.27	7.13	5.28
4,927.00	56.66	133.88	4,616.97	426.03	-677.16	-778.59	11.26	9.39	7.58
4,959.00	59.71	136.21	4,633.84	406.78	-657.95	-751.40	11.36	9.53	7.28
4,990.00	60.46	136.41	4,649.30	387.35	-639.39	-724.53	2.48	2.42	0.65
5,022.00	62.52	136.01	4,664.57	367.06	-619.94	-696.42	6.53	6.44	-1.25
5,053.00	65.38	134.87	4,678.18	347.22	-600.39	-668.57	9.80	9.23	-3.68
5,085.00	68.55	133.96	4,690.70	326.61	-579.36	-639.13	10.25	9.91	-2.84
5,116.00	71.50	134.59	4,701.29	306.27	-558.50	-610.01	9.71	9.52	2.03
5,148.00	74.22	134.75	4,710.72	284.78	-536.76	-579.43	8.51	8.50	0.50
5,179.00	76.40	134.85	4,718.58	263.65	-515.48	-549.45	7.04	7.03	0.32
5,211.00	77.08	134.95	4,725.92	241.66	-493.42	-518.30	2.15	2.13	0.31
5,242.00	78.61	135.12	4,732.45	220.22	-472.01	-488.00	4.96	4.94	0.55
5,274.00	81.33	135.94	4,738.02	197.74	-449.93	-456.49	8.87	8.50	2.56
5,305.00	83.89	136.44	4,742.01	175.55	-428.65	-425.76	8.41	8.26	1.61
5,336.00	86.37	136.59	4,744.64	153.14	-407.40	-394.88	8.01	8.00	0.48
5,368.00	87.61	137.04	4,746.32	129.84	-385.53	-362.93	4.12	3.88	1.41
5,431.00	88.37	137.19	4,748.53	83.71	-342.68	-299.99	1.23	1.21	0.24



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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)
5,526.00	89.05	136.04	4,750.67	14.69	-277.45	-205.04	1.41	0.72	-1.21
5,620.00	89.27	135.58	4,752.05	-52.70	-211.93	-111.05	0.54	0.23	-0.49
5,715.00	89.73	135.38	4,752.88	-120.44	-145.32	-16.06	0.53	0.48	-0.21
5,809.00	90.07	135.05	4,753.04	-187.15	-79.11	77.94	0.50	0.36	-0.35
5,904.00	90.19	134.72	4,752.83	-254.19	-11.80	172.94	0.37	0.13	-0.35
5,998.00	90.14	134.24	4,752.55	-320.06	55.27	266.92	0.51	-0.05	-0.51
6,093.00	89.82	133.68	4,752.59	-386.00	123.65	361.89	0.68	-0.34	-0.59
6,187.00	90.02	133.05	4,752.72	-450.54	191.99	455.83	0.70	0.21	-0.67
6,281.00	89.16	133.84	4,753.39	-515.18	260.24	549.76	1.24	-0.91	0.84
6,375.00	89.42	133.45	4,754.56	-580.05	328.25	643.71	0.50	0.28	-0.41
6,470.00	88.36	135.93	4,756.40	-646.85	395.77	738.67	2.84	-1.12	2.61
6,563.00	88.74	135.65	4,758.75	-713.49	460.60	831.64	0.51	0.41	-0.30
6,657.00	89.70	136.64	4,760.03	-781.26	525.72	925.62	1.47	1.02	1.05
6,751.00	90.50	138.31	4,759.87	-850.53	589.25	1,019.56	1.97	0.85	1.78
6,846.00	90.40	136.21	4,759.12	-920.30	653.72	1,114.51	2.21	-0.11	-2.21
6,940.00	91.15	135.35	4,757.85	-987.66	719.27	1,208.49	1.21	0.80	-0.91
7,035.00	91.27	134.87	4,755.84	-1,054.95	786.30	1,303.47	0.52	0.13	-0.51
7,129.00	91.62	134.40	4,753.47	-1,120.97	853.17	1,397.43	0.62	0.37	-0.50
7,223.00	88.95	135.19	4,753.00	-1,187.19	919.86	1,491.41	2.96	-2.84	0.84
7,318.00	89.55	134.90	4,754.25	-1,254.41	986.98	1,586.40	0.70	0.63	-0.31
7,412.00	90.07	134.50	4,754.56	-1,320.53	1,053.79	1,680.39	0.70	0.55	-0.43
7,507.00	88.64	136.71	4,755.63	-1,388.40	1,120.25	1,775.38	2.77	-1.51	2.33
7,601.00	88.89	136.17	4,757.66	-1,456.50	1,185.01	1,869.34	0.63	0.27	-0.57
7,695.00	89.61	136.30	4,758.89	-1,524.38	1,250.02	1,963.33	0.78	0.77	0.14
7,789.00	89.27	134.43	4,759.80	-1,591.27	1,316.06	2,057.32	2.02	-0.36	-1.99
7,883.00	90.21	137.90	4,760.23	-1,659.06	1,381.15	2,151.29	3.82	1.00	3.69
7,977.00	90.90	137.60	4,759.32	-1,728.64	1,444.35	2,245.21	0.80	0.73	-0.32
8,071.00	91.52	137.44	4,757.34	-1,797.95	1,507.82	2,339.13	0.68	0.66	-0.17
8,166.00	89.15	137.80	4,756.78	-1,868.12	1,571.85	2,434.06	2.52	-2.49	0.38
8,260.00	89.84	137.59	4,757.61	-1,937.63	1,635.11	2,527.98	0.77	0.73	-0.22
8,354.00	90.66	138.17	4,757.20	-2,007.36	1,698.15	2,621.90	1.07	0.87	0.62
8,449.00	89.92	136.38	4,756.72	-2,077.14	1,762.61	2,716.84	2.04	-0.78	-1.88
8,543.00	90.31	136.08	4,756.53	-2,145.02	1,827.63	2,810.84	0.52	0.41	-0.32
8,637.00	90.58	135.15	4,755.80	-2,212.19	1,893.38	2,904.83	1.03	0.29	-0.99
8,731.00	90.66	134.39	4,754.78	-2,278.39	1,960.11	2,998.82	0.81	0.09	-0.81
8,826.00	90.91	133.91	4,753.48	-2,344.56	2,028.27	3,093.78	0.57	0.26	-0.51
8,920.00	89.60	134.56	4,753.06	-2,410.13	2,095.61	3,187.76	1.56	-1.39	0.69
9,014.00	89.73	133.98	4,753.61	-2,475.74	2,162.92	3,281.74	0.63	0.14	-0.62
9,108.00	88.88	135.20	4,754.75	-2,541.73	2,229.86	3,375.71	1.58	-0.90	1.30
9,202.00	89.58	134.73	4,756.01	-2,608.15	2,296.36	3,469.70	0.90	0.74	-0.50
9,297.00	90.64	135.94	4,755.83	-2,675.71	2,363.14	3,564.70	1.69	1.12	1.27
9,391.00	92.15	136.73	4,753.54	-2,743.69	2,428.02	3,658.66	1.81	1.61	0.84
9,485.00	92.33	136.12	4,749.87	-2,811.73	2,492.76	3,752.57	0.68	0.19	-0.65



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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)
9,579.00	92.66	135.48	4,745.78	-2,879.06	2,558.23	3,846.48	0.77	0.35	-0.68
9,674.00	90.40	134.63	4,743.24	-2,946.27	2,625.32	3,941.44	2.54	-2.38	-0.89
9,768.00	90.84	134.87	4,742.22	-3,012.44	2,692.07	4,035.42	0.53	0.47	0.26
9,862.00	91.54	134.76	4,740.27	-3,078.68	2,758.74	4,129.40	0.75	0.74	-0.12
9,957.00	89.19	135.31	4,739.67	-3,145.89	2,825.87	4,224.38	2.54	-2.47	0.58
10,051.00	89.59	134.79	4,740.67	-3,212.41	2,892.27	4,318.38	0.70	0.43	-0.55
10,144.00	90.35	134.79	4,740.72	-3,277.93	2,958.27	4,411.37	0.82	0.82	0.00
10,239.00	90.47	133.90	4,740.04	-3,344.33	3,026.21	4,506.35	0.95	0.13	-0.94
10,333.00	90.04	132.79	4,739.62	-3,408.85	3,094.57	4,600.28	1.27	-0.46	-1.18
10,427.00	90.29	135.36	4,739.35	-3,474.23	3,162.09	4,694.24	2.75	0.27	2.73
10,521.00	90.92	135.39	4,738.36	-3,541.13	3,228.12	4,788.24	0.67	0.67	0.03
10,615.00	91.41	134.32	4,736.44	-3,607.42	3,294.74	4,882.21	1.25	0.52	-1.14
10,709.00	87.93	135.90	4,736.99	-3,674.00	3,361.07	4,976.19	4.07	-3.70	1.68
10,803.00	87.02	135.27	4,741.13	-3,741.07	3,426.79	5,070.10	1.18	-0.97	-0.67
10,897.00	87.86	135.13	4,745.32	-3,807.71	3,492.96	5,164.00	0.91	0.89	-0.15
10,991.00	87.86	134.12	4,748.84	-3,873.69	3,559.81	5,257.92	1.07	0.00	-1.07
11,086.00	89.38	134.46	4,751.12	-3,940.01	3,627.79	5,352.87	1.64	1.60	0.36
11,180.00	91.41	134.21	4,750.48	-4,005.69	3,695.02	5,446.85	2.18	2.16	-0.27
11,274.00	92.00	133.98	4,747.68	-4,071.08	3,762.50	5,540.78	0.67	0.63	-0.24
11,368.00	90.60	135.47	4,745.55	-4,137.20	3,829.27	5,634.74	2.17	-1.49	1.59
11,462.00	90.86	135.15	4,744.35	-4,204.02	3,895.37	5,728.73	0.44	0.28	-0.34
11,557.00	91.15	135.09	4,742.68	-4,271.33	3,962.39	5,823.72	0.31	0.31	-0.06
11,651.00	90.37	132.76	4,741.43	-4,336.53	4,030.09	5,917.67	2.61	-0.83	-2.48
11,745.00	91.51	133.49	4,739.89	-4,400.78	4,098.68	6,011.57	1.44	1.21	0.78
11,839.00	92.48	135.82	4,736.62	-4,466.80	4,165.50	6,105.50	2.68	1.03	2.48
11,933.00	91.77	134.53	4,733.13	-4,533.42	4,231.72	6,199.43	1.57	-0.76	-1.37
12,027.00	91.17	135.55	4,730.72	-4,599.91	4,298.12	6,293.40	1.26	-0.64	1.09
12,121.00	92.56	137.08	4,727.66	-4,667.85	4,363.01	6,387.33	2.20	1.48	1.63
12,215.00	92.93	136.62	4,723.16	-4,736.35	4,427.22	6,481.20	0.63	0.39	-0.49
12,309.00	93.46	135.86	4,717.92	-4,804.13	4,492.13	6,575.04	0.98	0.56	-0.81
12,403.00	91.24	136.49	4,714.07	-4,871.89	4,557.16	6,668.95	2.45	-2.36	0.67
12,497.00	89.86	136.57	4,713.17	-4,940.10	4,621.83	6,762.93	1.47	-1.47	0.09
12,592.00	90.63	136.85	4,712.76	-5,009.25	4,686.97	6,857.90	0.86	0.81	0.29
12,686.00	91.32	137.02	4,711.16	-5,077.91	4,751.15	6,951.86	0.76	0.73	0.18
12,780.00	88.92	135.62	4,710.96	-5,145.89	4,816.06	7,045.84	2.96	-2.55	-1.49
12,874.00	89.37	135.37	4,712.37	-5,212.92	4,881.94	7,139.83	0.55	0.48	-0.27
12,968.00	89.44	134.93	4,713.34	-5,279.56	4,948.23	7,233.82	0.47	0.07	-0.47
13,063.00	89.92	134.43	4,713.87	-5,346.36	5,015.78	7,328.81	0.73	0.51	-0.53
13,157.00	89.93	133.97	4,714.00	-5,411.89	5,083.17	7,422.78	0.49	0.01	-0.49
13,251.00	89.82	132.85	4,714.20	-5,476.49	5,151.45	7,516.72	1.20	-0.12	-1.19
13,345.00	89.63	134.86	4,714.65	-5,541.61	5,219.23	7,610.68	2.15	-0.20	2.14
13,439.00	89.66	134.39	4,715.23	-5,607.64	5,286.13	7,704.67	0.50	0.03	-0.50
13,533.00	91.02	135.37	4,714.68	-5,673.96	5,352.74	7,798.66	1.78	1.45	1.04
13,628.00	92.27	136.19	4,711.95	-5,742.02	5,418.96	7,893.61	1.57	1.32	0.86



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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)
13,723.00	90.21	135.31	4,709.89	-5,810.05	5,485.23	7,988.58	2.36	-2.17	-0.93
13,817.00	90.00	134.18	4,709.72	-5,876.22	5,551.99	8,082.57	1.22	-0.22	-1.20
13,912.00	89.99	133.02	4,709.73	-5,941.73	5,620.79	8,177.52	1.22	-0.01	-1.22
14,006.00	90.50	133.87	4,709.33	-6,006.37	5,689.04	8,271.46	1.05	0.54	0.90
14,100.00	90.46	132.87	4,708.54	-6,070.91	5,757.36	8,365.39	1.06	-0.04	-1.06
14,195.00	91.65	134.64	4,706.79	-6,136.60	5,825.97	8,460.33	2.24	1.25	1.86
14,289.00	92.26	134.26	4,703.58	-6,202.39	5,893.03	8,554.26	0.76	0.65	-0.40
14,383.00	90.50	134.14	4,701.32	-6,267.90	5,960.40	8,648.21	1.88	-1.87	-0.13
14,477.00	91.15	134.10	4,699.97	-6,333.33	6,027.87	8,742.17	0.69	0.69	-0.04
14,571.00	91.76	134.01	4,697.58	-6,398.67	6,095.41	8,836.11	0.66	0.65	-0.10
14,615.00	91.88	133.72	4,696.18	-6,429.15	6,127.11	8,880.07	0.71	0.26	-0.66
330 ppd @ 14615.00 MD 4696.18 TVD									
14,666.00	92.01	133.38	4,694.46	-6,464.27	6,164.06	8,931.01	0.71	0.26	-0.66
Survey @ 14666.00 MD 4694.46 TVD									
14,727.00	92.01	133.38	4,692.32	-6,506.14	6,208.36	8,991.93	0.00	0.00	0.00
Survey proj. to 14727 MD 4692.32 TVD 161 FSL 1076 FEL									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,417.00		20" Casing	20	24

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
455.00	454.99	-2.24	1.89	MWD surveys
14,615.00	4,696.18	-6,429.15	6,127.11	330 ppd @ 14615.00 MD 4696.18 TVD
14,666.00	4,694.46	-6,464.27	6,164.06	Survey @ 14666.00 MD 4694.46 TVD
14,727.00	4,692.32	-6,506.14	6,208.36	Survey proj. to 14727 MD 4692.32 TVD 161 FSL 1076 FEL

Checked By: _____ Approved By: _____ Date: _____



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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. 054H, Surf loc: 1386 FSL 2041 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,895,373.22 usft	Latitude:	36.20897400
	+E/-W	0.00 ft	Easting:	2,745,851.70 usft	Longitude:	-107.75618200
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	49,032.35279017

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	2/10/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,769.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,852.00	14,666.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,727.00	14,727.00	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	1,895,373.22	2,745,851.70	36.20897400	-107.75618200	
8.00	0.00	0.00	8.00	0.00	0.00	1,895,373.22	2,745,851.70	36.20897400	-107.75618200	
455.00	0.75	139.88	454.99	-2.24	1.89	1,895,370.98	2,745,853.59	36.20896785	-107.75617562	
MWD surveys										
514.00	0.62	137.47	513.98	-2.77	2.35	1,895,370.45	2,745,854.05	36.20896639	-107.75617405	
574.00	0.58	140.64	573.98	-3.24	2.76	1,895,369.97	2,745,854.46	36.20896509	-107.75617265	
634.00	0.48	139.55	633.98	-3.67	3.12	1,895,369.55	2,745,854.82	36.20896392	-107.75617145	
694.00	0.46	155.76	693.98	-4.08	3.38	1,895,369.14	2,745,855.08	36.20896279	-107.75617056	
754.00	0.32	144.21	753.97	-4.43	3.58	1,895,368.78	2,745,855.28	36.20896181	-107.75616989	
815.00	0.34	147.87	814.97	-4.73	3.77	1,895,368.49	2,745,855.47	36.20896101	-107.75616923	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
875.00	0.32	148.98	874.97	-5.02	3.95	1,895,368.20	2,745,855.66	36.20896020	-107.75616862
934.00	0.23	127.58	933.97	-5.23	4.13	1,895,367.98	2,745,855.83	36.20895961	-107.75616801
998.00	0.67	309.29	997.97	-5.07	3.94	1,895,368.14	2,745,855.65	36.20896005	-107.75616865
1,029.00	1.56	313.40	1,028.96	-4.67	3.50	1,895,368.55	2,745,855.20	36.20896116	-107.75617016
1,092.00	3.61	305.52	1,091.90	-2.93	1.26	1,895,370.29	2,745,852.96	36.20896595	-107.75617774
1,155.00	5.86	307.64	1,154.68	0.19	-2.90	1,895,373.40	2,745,848.80	36.20897452	-107.75619184
1,219.00	8.06	309.86	1,218.20	5.06	-8.93	1,895,378.28	2,745,842.77	36.20898792	-107.75621227
1,282.00	10.29	306.96	1,280.39	11.27	-16.82	1,895,384.49	2,745,834.88	36.20900501	-107.75623899
1,345.00	12.52	303.76	1,342.15	18.45	-27.00	1,895,391.67	2,745,824.71	36.20902475	-107.75627347
1,408.00	14.71	304.23	1,403.37	26.75	-39.29	1,895,399.96	2,745,812.41	36.20904757	-107.75631511
1,471.00	16.62	305.10	1,464.03	36.43	-53.27	1,895,409.65	2,745,798.43	36.20907419	-107.75636249
1,534.00	18.75	306.58	1,524.05	47.65	-68.78	1,895,420.86	2,745,782.93	36.20910504	-107.75641502
1,597.00	20.88	307.38	1,583.31	60.50	-85.83	1,895,433.71	2,745,765.87	36.20914038	-107.75647279
1,660.00	22.79	307.92	1,641.79	74.81	-104.38	1,895,448.03	2,745,747.32	36.20917975	-107.75653563
1,723.00	24.44	307.32	1,699.51	90.21	-124.37	1,895,463.43	2,745,727.33	36.20922210	-107.75660335
1,786.00	25.38	306.53	1,756.65	106.15	-145.59	1,895,479.37	2,745,706.12	36.20926593	-107.75667522
1,849.00	26.08	306.19	1,813.41	122.37	-167.61	1,895,495.58	2,745,684.09	36.20931052	-107.75674984
1,913.00	26.53	305.86	1,870.78	139.05	-190.55	1,895,512.26	2,745,661.15	36.20935639	-107.75682755
1,976.00	26.46	305.42	1,927.16	155.42	-213.39	1,895,528.64	2,745,638.31	36.20940143	-107.75690493
2,039.00	26.80	305.96	1,983.48	171.90	-236.32	1,895,545.11	2,745,615.38	36.20944673	-107.75698263
2,102.00	27.15	306.17	2,039.63	188.72	-259.42	1,895,561.94	2,745,592.28	36.20949300	-107.75706089
2,165.00	27.63	307.21	2,095.56	206.04	-282.66	1,895,579.25	2,745,569.04	36.20954062	-107.75713962
2,228.00	27.00	306.95	2,151.54	223.47	-305.73	1,895,596.69	2,745,545.98	36.20958856	-107.75721775
2,291.00	26.07	306.06	2,207.90	240.22	-328.35	1,895,613.43	2,745,523.36	36.20963461	-107.75729438
2,354.00	26.51	306.73	2,264.38	256.77	-350.81	1,895,629.99	2,745,500.90	36.20968014	-107.75737047
2,417.00	27.09	307.17	2,320.62	273.85	-373.51	1,895,647.06	2,745,478.20	36.20972710	-107.75744737
20" Casing									
2,480.00	26.96	306.90	2,376.74	291.09	-396.36	1,895,664.31	2,745,455.35	36.20977451	-107.75752479
2,543.00	26.36	306.86	2,433.04	308.05	-418.97	1,895,681.27	2,745,432.74	36.20982116	-107.75760139
2,606.00	25.90	306.54	2,489.60	324.64	-441.21	1,895,697.85	2,745,410.49	36.20986676	-107.75767675
2,669.00	25.47	305.63	2,546.38	340.72	-463.28	1,895,713.94	2,745,388.43	36.20991099	-107.75775151
2,732.00	25.24	305.89	2,603.31	356.49	-485.17	1,895,729.70	2,745,366.53	36.20995435	-107.75782568
2,769.00	25.06	305.60	2,636.80	365.67	-497.93	1,895,738.89	2,745,353.77	36.20997961	-107.75786891
2,852.00	24.88	306.34	2,712.04	386.25	-526.29	1,895,759.47	2,745,325.41	36.21003620	-107.75796499
2,883.00	24.88	304.13	2,740.17	393.77	-536.94	1,895,766.99	2,745,314.76	36.21005689	-107.75800107
2,978.00	24.43	302.45	2,826.51	415.53	-570.06	1,895,788.74	2,745,281.64	36.21011672	-107.75811329
3,072.00	25.92	306.11	2,911.58	438.07	-603.07	1,895,811.28	2,745,248.64	36.21017871	-107.75822511
3,166.00	25.13	305.02	2,996.41	461.63	-636.01	1,895,834.85	2,745,215.69	36.21024351	-107.75833672
3,261.00	24.32	303.71	3,082.70	484.06	-668.80	1,895,857.28	2,745,182.90	36.21030521	-107.75844782
3,355.00	24.92	307.40	3,168.16	506.84	-700.64	1,895,880.05	2,745,151.06	36.21036783	-107.75855568
3,450.00	21.83	306.79	3,255.35	529.58	-730.69	1,895,902.79	2,745,121.01	36.21043036	-107.75865750
3,544.00	19.42	306.61	3,343.32	549.36	-757.24	1,895,922.58	2,745,094.47	36.21048478	-107.75874742
3,639.00	15.70	301.84	3,433.88	565.57	-780.84	1,895,938.79	2,745,070.86	36.21052935	-107.75882740
3,733.00	13.90	296.81	3,524.76	577.37	-801.73	1,895,950.59	2,745,049.98	36.21056182	-107.75889817
3,827.00	14.28	295.25	3,615.93	587.41	-822.29	1,895,960.63	2,745,029.41	36.21058944	-107.75896784
3,921.00	11.43	290.77	3,707.57	595.66	-841.49	1,895,968.88	2,745,010.22	36.21061214	-107.75903290
4,015.00	8.61	285.18	3,800.13	600.81	-856.99	1,895,974.02	2,744,994.71	36.21062631	-107.75908544
4,110.00	5.71	272.61	3,894.38	602.89	-868.58	1,895,976.10	2,744,983.13	36.21063204	-107.75912472
4,204.00	3.69	259.32	3,988.06	602.54	-876.22	1,895,975.75	2,744,975.48	36.21063111	-107.75915063
4,298.00	3.50	233.58	4,081.89	600.27	-881.50	1,895,973.49	2,744,970.20	36.21062490	-107.75916854
4,329.00	3.41	234.14	4,112.83	599.17	-883.01	1,895,972.39	2,744,968.69	36.21062187	-107.75917366
4,361.00	3.66	202.99	4,144.77	597.67	-884.18	1,895,970.89	2,744,967.52	36.21061776	-107.75917763
4,392.00	5.90	170.56	4,175.67	595.19	-884.31	1,895,968.41	2,744,967.40	36.21061094	-107.75917806
4,423.00	9.25	154.46	4,206.40	591.37	-882.97	1,895,964.58	2,744,968.73	36.21060044	-107.75917354
4,455.00	11.96	140.63	4,237.85	586.48	-879.76	1,895,959.70	2,744,971.94	36.21058701	-107.75916266



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,486.00	15.09	133.54	4,267.99	581.22	-874.80	1,895,954.43	2,744,976.91	36.21057254	-107.75914585
4,518.00	17.75	134.58	4,298.68	574.93	-868.30	1,895,948.14	2,744,983.40	36.21055523	-107.75912385
4,549.00	19.97	131.90	4,328.02	568.07	-860.99	1,895,941.29	2,744,990.71	36.21053639	-107.75909909
4,581.00	22.77	126.28	4,357.82	560.76	-851.93	1,895,933.97	2,744,999.77	36.21051628	-107.75906839
4,612.00	25.65	122.99	4,386.09	553.55	-841.46	1,895,926.77	2,745,010.24	36.21049646	-107.75903293
4,644.00	28.53	123.23	4,414.57	545.59	-829.26	1,895,918.81	2,745,022.44	36.21047457	-107.75899158
4,675.00	31.97	124.57	4,441.35	536.87	-816.31	1,895,910.09	2,745,035.40	36.21045060	-107.75894769
4,707.00	35.69	126.93	4,467.93	526.46	-801.86	1,895,899.67	2,745,049.84	36.21042194	-107.75889876
4,738.00	39.27	127.89	4,492.52	514.99	-786.89	1,895,888.21	2,745,064.82	36.21039042	-107.75884802
4,770.00	43.19	127.31	4,516.59	502.13	-770.18	1,895,875.35	2,745,081.53	36.21035505	-107.75879142
4,802.00	46.35	126.38	4,539.30	488.62	-752.14	1,895,861.84	2,745,099.56	36.21031791	-107.75873032
4,833.00	49.38	127.50	4,560.10	474.80	-733.77	1,895,848.02	2,745,117.93	36.21027991	-107.7586809
4,864.00	51.47	129.84	4,579.85	459.87	-715.13	1,895,833.09	2,745,136.58	36.21023885	-107.75860491
4,896.00	53.75	131.53	4,599.28	443.30	-695.85	1,895,816.51	2,745,155.85	36.21019327	-107.75853962
4,927.00	56.66	133.88	4,616.97	426.03	-677.16	1,895,799.24	2,745,174.55	36.21014579	-107.75847629
4,959.00	59.71	136.21	4,633.84	406.78	-657.95	1,895,780.00	2,745,193.75	36.21009288	-107.75841125
4,990.00	60.46	136.41	4,649.30	387.35	-639.39	1,895,760.57	2,745,212.31	36.21003947	-107.75834838
5,022.00	62.52	136.01	4,664.57	367.06	-619.94	1,895,740.27	2,745,231.77	36.20998367	-107.75828248
5,053.00	65.38	134.87	4,678.18	347.22	-600.39	1,895,720.43	2,745,251.31	36.20992913	-107.75821629
5,085.00	68.55	133.96	4,690.70	326.61	-579.36	1,895,699.83	2,745,272.34	36.20987248	-107.75814504
5,116.00	71.50	134.59	4,701.29	306.27	-558.50	1,895,679.49	2,745,293.20	36.20981657	-107.75807439
5,148.00	74.22	134.75	4,710.72	284.78	-536.76	1,895,657.99	2,745,314.94	36.20975747	-107.75800074
5,179.00	76.40	134.85	4,718.58	263.65	-515.48	1,895,636.86	2,745,336.22	36.20969938	-107.75792867
5,211.00	77.08	134.95	4,725.92	241.66	-493.42	1,895,614.88	2,745,358.28	36.20963894	-107.75785394
5,242.00	78.61	135.12	4,732.45	220.22	-472.01	1,895,593.44	2,745,379.70	36.20957999	-107.75778141
5,274.00	81.33	135.94	4,738.02	197.74	-449.93	1,895,570.95	2,745,401.77	36.20951818	-107.75770665
5,305.00	83.89	136.44	4,742.01	175.55	-428.65	1,895,548.77	2,745,423.05	36.20945719	-107.75763457
5,336.00	86.37	136.59	4,744.64	153.14	-407.40	1,895,526.36	2,745,444.30	36.20939558	-107.75756259
5,368.00	87.61	137.04	4,746.32	129.84	-385.53	1,895,503.06	2,745,466.17	36.20933153	-107.75748852
5,431.00	88.37	137.19	4,748.53	83.71	-342.68	1,895,456.93	2,745,509.02	36.20920471	-107.75734340
5,526.00	89.05	136.04	4,750.67	14.69	-277.45	1,895,387.91	2,745,574.26	36.20901495	-107.75712244
5,620.00	89.27	135.58	4,752.05	-52.70	-211.93	1,895,320.51	2,745,639.77	36.20882968	-107.75690054
5,715.00	89.73	135.38	4,752.88	-120.44	-145.32	1,895,252.78	2,745,706.38	36.20864346	-107.75667494
5,809.00	90.07	135.05	4,753.04	-187.15	-79.11	1,895,186.06	2,745,772.60	36.20846004	-107.75645066
5,904.00	90.19	134.72	4,752.83	-254.19	-11.80	1,895,119.02	2,745,839.91	36.20827573	-107.75622268
5,998.00	90.14	134.24	4,752.55	-320.06	55.27	1,895,053.16	2,745,906.97	36.20809466	-107.75599552
6,093.00	89.82	133.68	4,752.59	-386.00	123.65	1,894,987.22	2,745,975.36	36.20791335	-107.75576389
6,187.00	90.02	133.05	4,752.72	-450.54	191.99	1,894,922.67	2,746,043.69	36.20773589	-107.75553243
6,281.00	89.16	133.84	4,753.39	-515.18	260.24	1,894,858.04	2,746,111.94	36.20755818	-107.75530127
6,375.00	89.42	133.45	4,754.56	-580.05	328.25	1,894,793.16	2,746,179.95	36.20737982	-107.75507090
6,470.00	88.36	135.93	4,756.40	-646.85	395.77	1,894,726.37	2,746,247.47	36.20719618	-107.75484221
6,563.00	88.74	135.65	4,758.75	-713.49	460.60	1,894,659.73	2,746,312.30	36.20701297	-107.75462265
6,657.00	89.70	136.64	4,760.03	-781.26	525.72	1,894,591.96	2,746,377.42	36.20682664	-107.75440211
6,751.00	90.50	138.31	4,759.87	-850.53	589.25	1,894,522.68	2,746,440.95	36.20663620	-107.75418694
6,846.00	90.40	136.21	4,759.12	-920.30	653.72	1,894,452.92	2,746,505.42	36.20644440	-107.75396861
6,940.00	91.15	135.35	4,757.85	-987.66	719.27	1,894,385.56	2,746,570.97	36.20625921	-107.75374661
7,035.00	91.27	134.87	4,755.84	-1,054.95	786.30	1,894,318.27	2,746,638.00	36.20607421	-107.75351958
7,129.00	91.62	134.40	4,753.47	-1,120.97	853.17	1,894,252.25	2,746,704.87	36.20589270	-107.75329311
7,223.00	88.95	135.19	4,753.00	-1,187.19	919.86	1,894,186.03	2,746,771.57	36.20571062	-107.75306721
7,318.00	89.55	134.90	4,754.25	-1,254.41	986.98	1,894,118.80	2,746,838.68	36.20552581	-107.75283990
7,412.00	90.07	134.50	4,754.56	-1,320.53	1,053.79	1,894,052.69	2,746,905.50	36.20534402	-107.75261362
7,507.00	88.64	136.71	4,755.63	-1,388.40	1,120.25	1,893,984.82	2,746,971.95	36.20515742	-107.75238856
7,601.00	88.89	136.17	4,757.66	-1,456.50	1,185.01	1,893,916.72	2,747,036.71	36.20497019	-107.75216924
7,695.00	89.61	136.30	4,758.89	-1,524.38	1,250.02	1,893,848.84	2,747,101.72	36.20478357	-107.75194906
7,789.00	89.27	134.43	4,759.80	-1,591.27	1,316.06	1,893,781.95	2,747,167.76	36.20459969	-107.75172541



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,883.00	90.21	137.90	4,760.23	-1,659.06	1,381.15	1,893,714.16	2,747,232.85	36.20441330	-107.75150498
7,977.00	90.90	137.60	4,759.32	-1,728.64	1,444.35	1,893,644.58	2,747,296.05	36.20422202	-107.75129096
8,071.00	91.52	137.44	4,757.34	-1,797.95	1,507.82	1,893,575.27	2,747,359.52	36.20403147	-107.75107603
8,166.00	89.15	137.80	4,756.78	-1,868.12	1,571.85	1,893,505.10	2,747,423.54	36.20383856	-107.75085921
8,260.00	89.84	137.59	4,757.61	-1,937.63	1,635.11	1,893,435.59	2,747,486.81	36.20364744	-107.75064496
8,354.00	90.66	138.17	4,757.20	-2,007.36	1,698.15	1,893,365.86	2,747,549.85	36.20345576	-107.75043148
8,449.00	89.92	136.38	4,756.72	-2,077.14	1,762.61	1,893,296.08	2,747,614.31	36.20326390	-107.75021322
8,543.00	90.31	136.08	4,756.53	-2,145.02	1,827.63	1,893,228.20	2,747,679.33	36.20307728	-107.74999301
8,637.00	90.58	135.15	4,755.80	-2,212.19	1,893.38	1,893,161.03	2,747,745.08	36.20289259	-107.74977036
8,731.00	90.66	134.39	4,754.78	-2,278.39	1,960.11	1,893,094.83	2,747,811.81	36.20271058	-107.74954437
8,826.00	90.91	133.91	4,753.48	-2,344.56	2,028.27	1,893,028.67	2,747,879.97	36.20252866	-107.74931354
8,920.00	89.60	134.56	4,753.06	-2,410.13	2,095.61	1,892,963.09	2,747,947.31	36.20234837	-107.74908547
9,014.00	89.73	133.98	4,753.61	-2,475.74	2,162.92	1,892,897.48	2,748,014.62	36.20216796	-107.74885752
9,108.00	88.88	135.20	4,754.75	-2,541.73	2,229.86	1,892,831.50	2,748,081.56	36.20198653	-107.74863084
9,202.00	89.58	134.73	4,756.01	-2,608.15	2,296.36	1,892,765.07	2,748,148.06	36.20180391	-107.74840563
9,297.00	90.64	135.94	4,755.83	-2,675.71	2,363.14	1,892,697.51	2,748,214.84	36.20161814	-107.74817949
9,391.00	92.15	136.73	4,753.54	-2,743.69	2,428.02	1,892,629.53	2,748,279.72	36.20143125	-107.74795978
9,485.00	92.33	136.12	4,749.87	-2,811.73	2,492.76	1,892,561.49	2,748,344.46	36.20124416	-107.74774054
9,579.00	92.66	135.48	4,745.78	-2,879.06	2,558.23	1,892,494.16	2,748,409.93	36.20105905	-107.74751883
9,674.00	90.40	134.63	4,743.24	-2,946.27	2,625.32	1,892,426.95	2,748,477.01	36.20087426	-107.74729167
9,768.00	90.84	134.87	4,742.22	-3,012.44	2,692.07	1,892,360.78	2,748,543.77	36.20069231	-107.74706561
9,862.00	91.54	134.76	4,740.27	-3,078.68	2,758.74	1,892,294.54	2,748,610.43	36.20051018	-107.74683985
9,957.00	89.19	135.31	4,739.67	-3,145.89	2,825.87	1,892,227.33	2,748,677.56	36.20032539	-107.74661253
10,051.00	89.59	134.79	4,740.67	-3,212.41	2,892.27	1,892,160.81	2,748,743.97	36.20014248	-107.74638766
10,144.00	90.35	134.79	4,740.72	-3,277.93	2,958.27	1,892,095.29	2,748,809.97	36.19996233	-107.74616415
10,239.00	90.47	133.90	4,740.04	-3,344.33	3,026.21	1,892,028.89	2,748,877.90	36.19977975	-107.74593409
10,333.00	90.04	132.79	4,739.62	-3,408.85	3,094.57	1,891,964.37	2,748,946.26	36.19960235	-107.74570260
10,427.00	90.29	135.36	4,739.35	-3,474.23	3,162.09	1,891,898.99	2,749,013.79	36.19942257	-107.74547393
10,521.00	90.92	135.39	4,738.36	-3,541.13	3,228.12	1,891,832.09	2,749,079.82	36.19923863	-107.74525035
10,615.00	91.41	134.32	4,736.44	-3,607.42	3,294.74	1,891,765.81	2,749,146.44	36.19905638	-107.74502475
10,709.00	87.93	135.90	4,736.99	-3,674.00	3,361.07	1,891,699.23	2,749,212.76	36.19887330	-107.74480015
10,803.00	87.02	135.27	4,741.13	-3,741.07	3,426.79	1,891,632.15	2,749,278.49	36.19868887	-107.74457761
10,897.00	87.86	135.13	4,745.32	-3,807.71	3,492.96	1,891,565.52	2,749,344.65	36.19850566	-107.74435355
10,991.00	87.86	134.12	4,748.84	-3,873.69	3,559.81	1,891,499.53	2,749,411.51	36.19832422	-107.74412716
11,086.00	89.38	134.46	4,751.12	-3,940.01	3,627.79	1,891,433.22	2,749,479.49	36.19814187	-107.74389696
11,180.00	91.41	134.21	4,750.48	-4,005.69	3,695.02	1,891,367.53	2,749,546.72	36.19796126	-107.74366931
11,274.00	92.00	133.98	4,747.68	-4,071.08	3,762.50	1,891,302.15	2,749,614.20	36.19778148	-107.74344081
11,368.00	90.60	135.47	4,745.55	-4,137.20	3,829.27	1,891,236.02	2,749,680.96	36.19759965	-107.74321473
11,462.00	90.86	135.15	4,744.35	-4,204.02	3,895.37	1,891,169.20	2,749,747.06	36.19741591	-107.74299090
11,557.00	91.15	135.09	4,742.68	-4,271.33	3,962.39	1,891,101.89	2,749,814.09	36.19723085	-107.74276395
11,651.00	90.37	132.76	4,741.43	-4,336.53	4,030.09	1,891,036.70	2,749,881.78	36.19705157	-107.74253473
11,745.00	91.51	133.49	4,739.89	-4,400.78	4,098.68	1,890,972.45	2,749,950.38	36.19687490	-107.74230245
11,839.00	92.48	135.82	4,736.62	-4,466.80	4,165.50	1,890,906.43	2,750,017.20	36.19669336	-107.74207618
11,933.00	91.77	134.53	4,733.13	-4,533.42	4,231.72	1,890,839.81	2,750,083.42	36.19651017	-107.74185197
12,027.00	91.17	135.55	4,730.72	-4,599.91	4,298.12	1,890,773.31	2,750,149.81	36.19632734	-107.74162714
12,121.00	92.56	137.08	4,727.66	-4,667.85	4,363.01	1,890,705.38	2,750,214.70	36.19614054	-107.74140744
12,215.00	92.93	136.62	4,723.16	-4,736.35	4,427.22	1,890,636.88	2,750,278.91	36.19595220	-107.74119003
12,309.00	93.46	135.86	4,717.92	-4,804.13	4,492.13	1,890,569.09	2,750,343.83	36.19576582	-107.74097025
12,403.00	91.24	136.49	4,714.07	-4,871.89	4,557.16	1,890,501.34	2,750,408.86	36.19557952	-107.74075006
12,497.00	89.86	136.57	4,713.17	-4,940.10	4,621.83	1,890,433.12	2,750,473.52	36.19539196	-107.74053112
12,592.00	90.63	136.85	4,712.76	-5,009.25	4,686.97	1,890,363.98	2,750,538.66	36.19520183	-107.74031058
12,686.00	91.32	137.02	4,711.16	-5,077.91	4,751.15	1,890,295.31	2,750,602.84	36.19501303	-107.74009330
12,780.00	88.92	135.62	4,710.96	-5,145.89	4,816.06	1,890,227.34	2,750,667.75	36.19482613	-107.73987352
12,874.00	89.37	135.37	4,712.37	-5,212.92	4,881.94	1,890,160.31	2,750,733.63	36.19464181	-107.73965045
12,968.00	89.44	134.93	4,713.34	-5,279.56	4,948.23	1,890,093.67	2,750,799.92	36.19445857	-107.73942600



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,063.00	89.92	134.43	4,713.87	-5,346.36	5,015.78	1,890,026.87	2,750,867.47	36.19427489	-107.73919729
13,157.00	89.93	133.97	4,714.00	-5,411.89	5,083.17	1,889,961.34	2,750,934.86	36.19409469	-107.73896912
13,251.00	89.82	132.85	4,714.20	-5,476.49	5,151.45	1,889,896.74	2,751,003.15	36.19391705	-107.73873790
13,345.00	89.63	134.86	4,714.65	-5,541.61	5,219.23	1,889,831.62	2,751,070.93	36.19373797	-107.73850841
13,439.00	89.66	134.39	4,715.23	-5,607.64	5,286.13	1,889,765.59	2,751,137.83	36.19355640	-107.73828190
13,533.00	91.02	135.37	4,714.68	-5,673.96	5,352.74	1,889,699.26	2,751,204.43	36.19337402	-107.73805639
13,628.00	92.27	136.19	4,711.95	-5,742.02	5,418.96	1,889,631.21	2,751,270.65	36.19318689	-107.73783218
13,723.00	90.21	135.31	4,709.89	-5,810.05	5,485.23	1,889,563.18	2,751,336.92	36.19299983	-107.73760781
13,817.00	90.00	134.18	4,709.72	-5,876.22	5,551.99	1,889,497.01	2,751,403.69	36.19281787	-107.73738177
13,912.00	89.99	133.02	4,709.73	-5,941.73	5,620.79	1,889,431.50	2,751,472.48	36.19263772	-107.73714884
14,006.00	90.50	133.87	4,709.33	-6,006.37	5,689.04	1,889,366.86	2,751,540.73	36.19245996	-107.73691777
14,100.00	90.46	132.87	4,708.54	-6,070.91	5,757.36	1,889,302.31	2,751,609.06	36.19228246	-107.73668641
14,195.00	91.65	134.64	4,706.79	-6,136.60	5,825.97	1,889,236.63	2,751,677.66	36.19210183	-107.73645414
14,289.00	92.26	134.26	4,703.58	-6,202.39	5,893.03	1,889,170.84	2,751,744.72	36.19192092	-107.73622708
14,383.00	90.50	134.14	4,701.32	-6,267.90	5,960.40	1,889,105.33	2,751,812.09	36.19174076	-107.73599899
14,477.00	91.15	134.10	4,699.97	-6,333.33	6,027.87	1,889,039.90	2,751,879.56	36.19156083	-107.73577055
14,571.00	91.76	134.01	4,697.58	-6,398.67	6,095.41	1,888,974.56	2,751,947.10	36.19138114	-107.73554190
14,615.00	91.88	133.72	4,696.18	-6,429.15	6,127.11	1,888,944.08	2,751,978.80	36.19129734	-107.73543455
330 ppd @ 14615.00 MD 4696.18 TVD									
14,666.00	92.01	133.38	4,694.46	-6,464.27	6,164.06	1,888,908.96	2,752,015.75	36.19120077	-107.73530947
Survey @ 14666.00 MD 4694.46 TVD									
14,727.00	92.01	133.38	4,692.32	-6,506.14	6,208.36	1,888,867.09	2,752,060.05	36.19108562	-107.73515945
Survey proj. to 14727 MD 4692.32 TVD 161 FSL 1076 FEL									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,417.00	2,320.62	20" Casing	20	24

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
455.00	454.99	-2.24	1.89	MWD surveys
14,615.00	4,696.18	-6,429.15	6,127.11	330 ppd @ 14615.00 MD 4696.18 TVD
14,666.00	4,694.46	-6,464.27	6,164.06	Survey @ 14666.00 MD 4694.46 TVD
14,727.00	4,692.32	-6,506.14	6,208.36	Survey proj. to 14727 MD 4692.32 TVD 161 FSL 1076 FEL

WELL NAME: GREATER LYBROOK UNIT 054H

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

API Number: 30-045-38308

AFE Number: DV03076

ER Well Number: NM08271.01

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 1,386 ft FSL 2,041 ft FEL

BH Location: 25-23N-09W Sec-Twn- Rng 232 ft FSL 1160 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)	370 ft
Int TD (MD)	2,812 ft
KOP (MD)	4,399 ft
KOP (TVD)	4,177 ft
Target (TVD)	4,780 ft
Curve BUR	10 °/100 ft
POE (MD)	5,363 ft
TD (MD)	14,727 ft
Lat Len (ft)	9,322 ft

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	417	417
Kirtland	520	520
Fruitland	720	720
Pictured Cliffs	1,100	1,100
Lewis	1,222	1,223
Chacra	1,491	1,496
Cliff House	2,548	2,660
Menefee	2,573	2,688
Point Lookout	3,530	3,745
Mancos	3,675	3,895
Gallup (MNCS_A)	4,035	4,258

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	370	13.375	54.5	J-55	BTC	0	370
Intermediate	12.250	2,812	9.625	36.0	J-55	LTC	0	2,812
Production	8.500	14,691	5.500	17.0	P-110	LTC	0	14,691

CEMENT PROPERTIES SUMMARY:

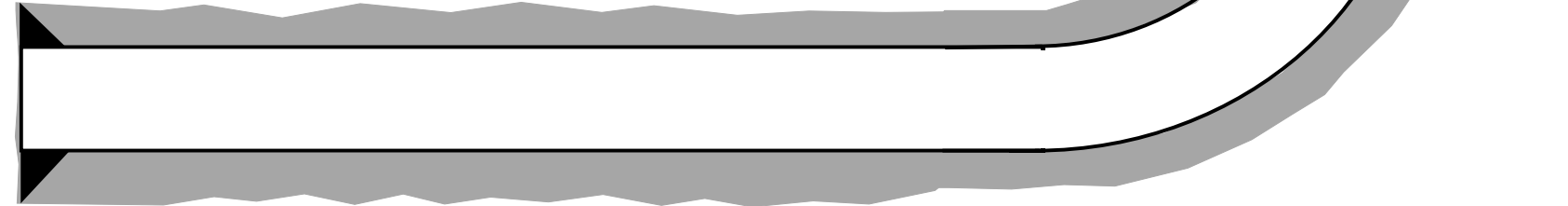
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE III	14.6	1.38	6.65	0.6946	100%	0	352
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	625
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,279	137
Prod. (Lead)	Type II	12.4	2.260	12.71	0.2691	65%	0	555
Prod. (Tail)	G:POZ blend	13.3	1.570	7.71	0.13052916	10%	4,312	1,678

COMPLETION / PRODUCTION SUMMARY:

Frac: Perf, Plug & Frac 38 stages: 3 spf. 0.30" diameter from 5160' to 14570' MD

Total of 1596 open holes. As pumped: 115,992 bbls of fluid. 9,492,214 lbs of proppant.

Production: Produce through production tubing via gas-lift into permanent production and storage facilities



Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R9W / SEC 23 / NWSE / 36.208974 / -107.756182	County or Parish/State: SAN JUAN / NM
Well Number: 054H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: NOG13121857	Unit or CA Name: Greater Lybrook	Unit or CA Number: NMNM144419X
US Well Number: 3004538308	Operator: ENDURING RESOURCES LLC	

Subsequent Report

Sundry ID: 2787427

Type of Submission: Subsequent Report Type of Action: Drilling Operations

Date Sundry Submitted: 04/29/2024 Time Sundry Submitted: 01:45

Date Operation Actually Began: 02/28/2024

Actual Procedure: TD DATE REVISED FROM ORIGINAL SUBMITTAL Completion 2/28/24: NU BOPE. Full function PT L750 H9500 (30min), all tests good & recorded on chart. Open well, increase pressure, Frac Sleeve opened at 6500 psi. 2/29/24-3/8/24: Perf, Plug & Frac 38 stages: 3 spf. 0.30" diameter from 5160' to 14570' MD (4738' to 4700' TVD). Total of 1596 open holes. As pumped: 115,992 bbls of fluid. 9,492,214 lbs of proppant. 3/30/24: MIRU Blackhawk 314. NU BOP. Full function PT to L300 H3000 (30min) test good & recorded on chart. 3/31/24 to 4/3/24 TIH. Drill out plugs. TOH. 4/3/24: RIH with production string. Land 155 jts of 2.875" 6.5# L80 EUE tubing. EOT: 5119'. Seven GLVs set at 1367'-1893'-2455'-3013'-3539'-4068'-4526'. POH. ND BOPE. NU production tree & PT to 10k (30min) test good & recorded on chart. Turn well over to production. Rig released on 4/4/24.

Received by OCD: 5/7/2024 11:44:59 AM

Page 20 of 31

Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R9W / SEC 23 / NWSE / 36.208974 / -107.756182	County or Parish/State: SAN JUAN / NM
Well Number: 054H	Type of Well: OIL WELL	Allottee or Tribe Name: NAVAJO NATION
Lease Number: NOG13121857	Unit or CA Name: Greater Lybrook	Unit or CA Number: NMNM144419X
US Well Number: 3004538308	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: HEATHER HUNTINGTON

Signed on: APR 29, 2024 01:44 PM

Name: ENDURING RESOURCES LLC

Title: Permitting Technician

Street Address: 200 Energy Court

City: FarmingtonState: NM

Phone: (505) 636-9751

Email address: HHUNTINGTON@ENDURINGRESOURCES.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:



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

Well Completion Print

05/07/2024

Operator Name ENDURING RESOURCES LLC SHL NWSE Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 054H	US Well Number 3004538308
	County SAN JUAN	State NM	Lease Number(s) NOG13121857
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X
Allottee/Tribe Name NAVAJO NATION	Well Pad Name GREATER LYBROOK UNIT	Well Pad Number 053H- 054H-055H-056H-057H	APD ID 10400081625

Section 1 - General

Well Completion Report Id: 91659**Submission Date:** 04-29-2024**BLM Office:** Farmington Field Office**User:** HEATHER HUNTINGTON**Title:** Permitting Technician**Federal/Indian:** INDIAN**Lease Number:** NOG13121857**Lease Acres:****Agreement in place?:** YES**Federal or Indian Agreement:** FEDERAL**Agreement Number:****Agreement Name:** Greater Lybrook**Additional Information****Keep this Well Completion Report confidential?:** YES**APD Operator:** ENDURING
RESOURCES LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:** LYBROOK MANCOS W**Field Name:** BASIN MANCOS**Well Type:** OIL WELL**Spud Date:** 08-27-2023**Date Total Measured Depth Reached:** 02-10-2024**Drill & Abandon or Ready To Produce:** READY TO PRODUCE**Well Class:** HORIZONTAL

Operator Name ENDURING RESOURCES LLC SHL NWSE Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 054H	US Well Number 3004538308
	County SAN JUAN	State NM	Lease Number(s) NOG13121857
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X
Allottee/Tribe Name NAVAJO NATION	Well Pad Name GREATER LYBROOK UNIT	Well Pad Number 053H- 054H-055H-056H-057H	APD ID 10400081625

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
NACIMIENTO	SANDSTONE, SHALE		7028	0	0	USEABLE WATER	
OJO ALAMO	SANDSTONE, SHALE		6410	417	417	USEABLE WATER	
KIRTLAND	COAL, SHALE		6307	520	520	COAL, NATURAL GAS	
FRUITLAND	COAL		6107	720	720	COAL	
PICTURED CLIFFS	SANDSTONE		5727	1100	1100	NATURAL GAS	
LEWIS	SHALE		5605	1222	1223	NATURAL GAS	
CHACRA	SANDSTONE, SHALE		5336	1491	1496	NATURAL GAS	
CLIFFHOUSE	SANDSTONE		4279	2548	2660	NATURAL GAS	
MENEFEE	COAL, SANDSTONE, SHALE		4254	2573	2688	NATURAL GAS	
POINT LOOKOUT	SANDSTONE, SHALE		3297	3530	3745	NATURAL GAS	
MANCOS	SHALE		3152	3675	3895	NATURAL GAS, OIL	
GALLUP	SHALE		2792	4035	4258	NATURAL GAS, OIL	

Completion and Completed

Operator Name ENDURING RESOURCES LLC SHL NWSE Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 054H	US Well Number 3004538308
	County SAN JUAN	State NM	Lease Number(s) NOG13121857
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X
Allottee/Tribe Name NAVAJO NATION	Well Pad Name GREATER LYBROOK UNIT	Well Pad Number 053H- 054H-055H-056H-057H	APD ID 10400081625

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	NMNM144419X	NOG13121857	NEW		POW	04-03-2024	04-03-2024	GALLUP	5160	14570	Y	.3	1596	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	115992	9492214	CHEMICAL DISCLOSURE UPLOADED TO FRAC FOCUS 4/22/24

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			GAS LIFT		SOLD	

Operator Name ENDURING RESOURCES LLC SHL NWSE Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 054H	US Well Number 3004538308
	County SAN JUAN	State NM	Lease Number(s) NOG13121857
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X
Allottee/Tribe Name NAVAJO NATION	Well Pad Name GREATER LYBROOK UNIT	Well Pad Number 053H- 054H-055H-056H-057H	APD ID 10400081625

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	04/08/2024	24	214	1647	530	7696	48/64	151		754

Well Location

Survey Type: RECTANGULAR

Survey Number: 15269

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

	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	Aliquot/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.208974	-107.756182	6802	N/A	N/A	INDIAN	NOG13121857				1386	FSL	2041	FEL	23N	9W	23	NWSE
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.208974	-107.756182	6432	370	370	INDIAN	NOG13121857				1386	FSL	2041	FEL	23N	9W	23	NWSE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.200674	-107.749342	2110	14646	4692	INDIAN	NMNM036949				911	FNL	0	FWL	23N	9W	25	NWNW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.205172	-107.752396	2110	14646	4692	INDIAN	NMNM036949				0	FNL	907	FEL	23N	9W	26	NENE

Operator Name ENDURING RESOURCES LLC SHL NWSE Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 054H	US Well Number 3004538308
	County SAN JUAN	State NM	Lease Number(s) NOG13121857
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X
Allottee/Tribe Name NAVAJO NATION	Well Pad Name GREATER LYBROOK UNIT	Well Pad Number 053H- 054H-055H-056H-057H	APD ID 10400081625

	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	Aliquot/Lot/Tract
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.209847	-107.758112	2110	14646	4692	INDIAN	NOG13121857				1705	FSL	2615	FEL	23N	9W	23	NWSE
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.191326	-107.735472	2110	14691	4692	INDIAN	NMNM036949				249	FSL	1168	FEL	23N	9W	25	SESE
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.191086	-107.735159	2110	14727	4692	INDIAN	NMNM036949	4692	14646		162	FSL	1076	FEL	23N	9W	25	SESE

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)
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Operator Name
ENDURING RESOURCES
LLC
SHL NWSE Sec 23 23N
9W

Well Name GREATER
LYBROOK UNIT

County SAN JUAN

Well Status Producing Oil
Well

Allottee/Tribe Name
NAVAJO NATION

Well Number 054H

State NM

Agreement Name Greater
Lybrook

Well Pad Number 053H-
054H-055H-056H-057H

US Well Number 3004538308

Lease Number(s)
NOG13121857

Agreement Number(s)
NMNM144419X

APD ID 10400081625

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	370	13.375	54.5	J-55		BUTT		
00	INTERMEDIATE	12.25	0	2812	9.625	36	J-55		LT&C		
00	PRODUCTION	8.5	0	14691	5.5	17	P-110		LT&C		

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		Type III	352	1.38	0					86.5
00	INTERMEDIATE		Type III: POZ Blend	625	2.14	0	Type III	137	1.38	2279	271.9
00	PRODUCTION		Type III	555	2.26	0	Type G:POZ Blend	1678	1.57	4312	692.6

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		5119		6	L-80		ST&C	

Operator Name ENDURING RESOURCES LLC SHL NWSE Sec 23 23N 9W	Well Name GREATER LYBROOK UNIT	Well Number 054H	US Well Number 3004538308
	County SAN JUAN	State NM	Lease Number(s) NOG13121857
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name Greater Lybrook	Agreement Number(s) NMNM144419X
Allottee/Tribe Name NAVAJO NATION	Well Pad Name GREATER LYBROOK UNIT	Well Pad Number 053H- 054H-055H-056H-057H	APD ID 10400081625

Greater_Lybrook_Unit__054H_As_drilled_C_102_Plat_SIGNED_20240429125807.pdf

Greater_Lybrook_Unit_054H_PVA_final_20240429132935.pdf

WBD_GLU_054H_05022024_20240503092049.pdf

CONFIDENTIAL

From: blm-afmss-notifications@blm.gov
To: [Heather Huntington](#)
Subject: Well Name: GREATER LYBROOK UNIT, Well Number: 054H, Notification of Well Completion Acceptance
Date: Monday, May 6, 2024 5:13:15 PM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **ENDURING RESOURCES LLC**
- Well Name: **GREATER LYBROOK UNIT**
- Well Number: **054H**
- US Well Number: **3004538308**
- Well Completion Report Id: **WCR2024050691659**

This notification is automatically generated. Please do not reply to this message as this account is not monitored.

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 341605

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 341605
	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
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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 341605

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 341605
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	6/26/2024