

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 30-045-38307	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number 053H

II. ¹⁰ Surface Location

Ul or lot no. J	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 1397'	North/South Line SOUTH	Feet from the 2058'	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no. O	Section 25	Township 23N	Range 9W	Lot Idn	Feet from the 141'	North/South line SOUTH	Feet from the 1893'	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 8/14/2023	²² Ready Date 3/20/24	²³ TD 14,381' MD 4,266' TVD	²⁴ PBDT 14,257' MD 4,266' TVD	²⁵ Perforations ~ 5,410' – 14,178' MD ~ 4,337'-4,276' TVD AlphaSleeve 14,203'	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		2,942' MD		713 sx
8.5"		5.5",17#, P-110		14,307' MD		2,169 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 Title: PETROLEUM SPECIALIST Approval Date: 3/11/2024 RT EXPIRES 6/20/2024		
Printed name: Heather Huntington					
Title: Permitting Technician					
E-mail Address:hhuntington@enduringresources.com					
Date: 2/27/24		Phone:505-636-9751			



ENDURING RESOURCES IV LLC

February 27, 2024

Re: GREATER LYBROOK UNIT 053H-30-045-38307

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

Sincerely,

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

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

District I
1025 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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811 S. First Street, Artesia, NM 88210
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District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

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Appropriate District Office

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1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38307	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 053H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6802'

¹⁰ Surface Location

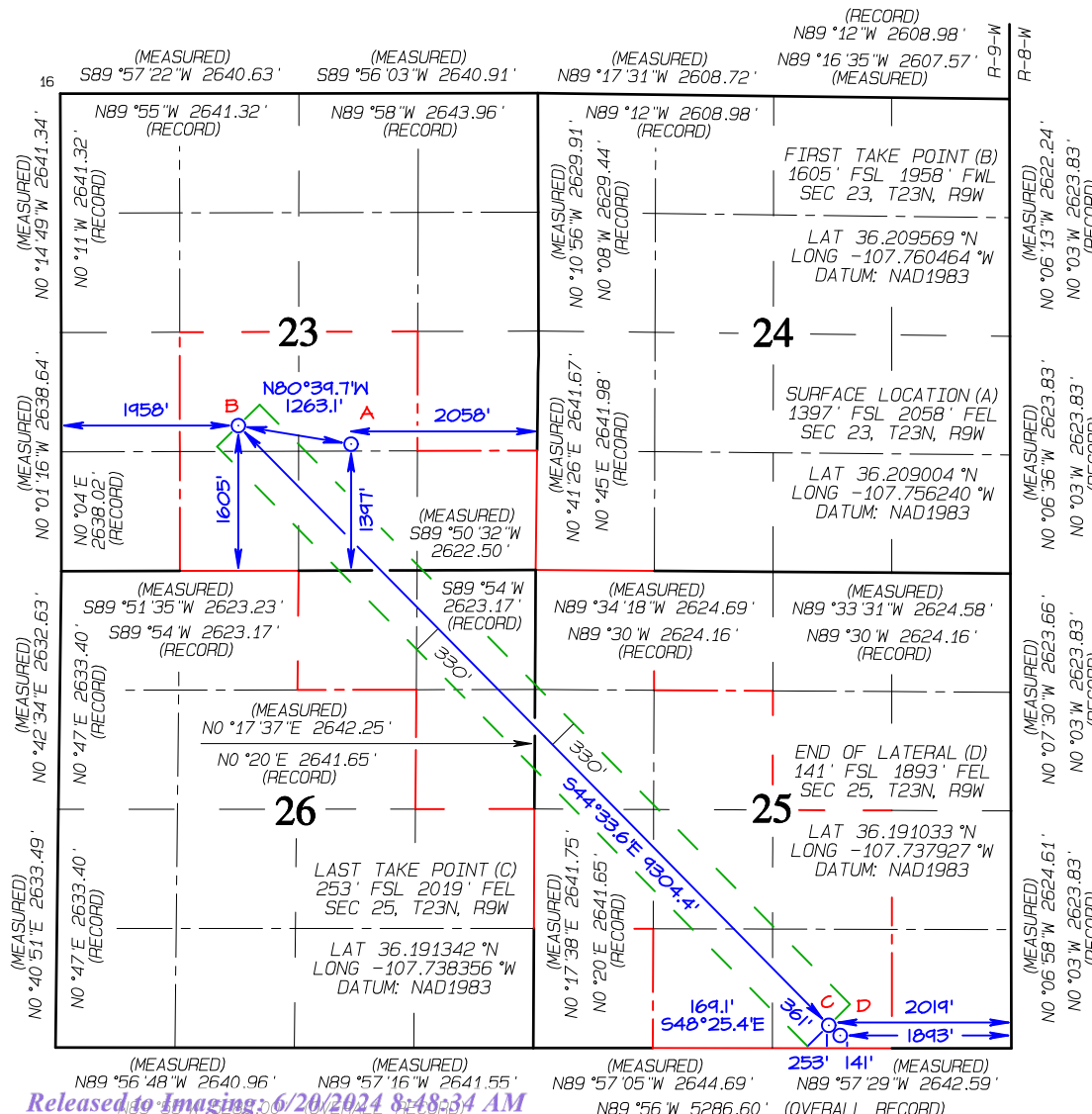
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	23N	9W		1397	SOUTH	2058	EAST	SAN JUAN

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
0	25	23N	9W		141	SOUTH	1893	EAST	SAN JUAN

¹² Dedicated Acres 640.0	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, W/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.

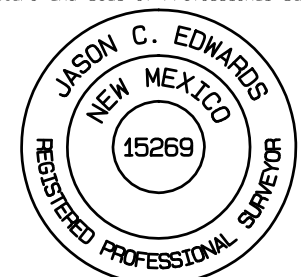
Signature Heather Huntington Date 2/28/24
Printed Name Heather Huntington
E-mail Address hhuntington@enduringresources.com

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 27, 2024
Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

District I
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AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38307	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 053H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6802'

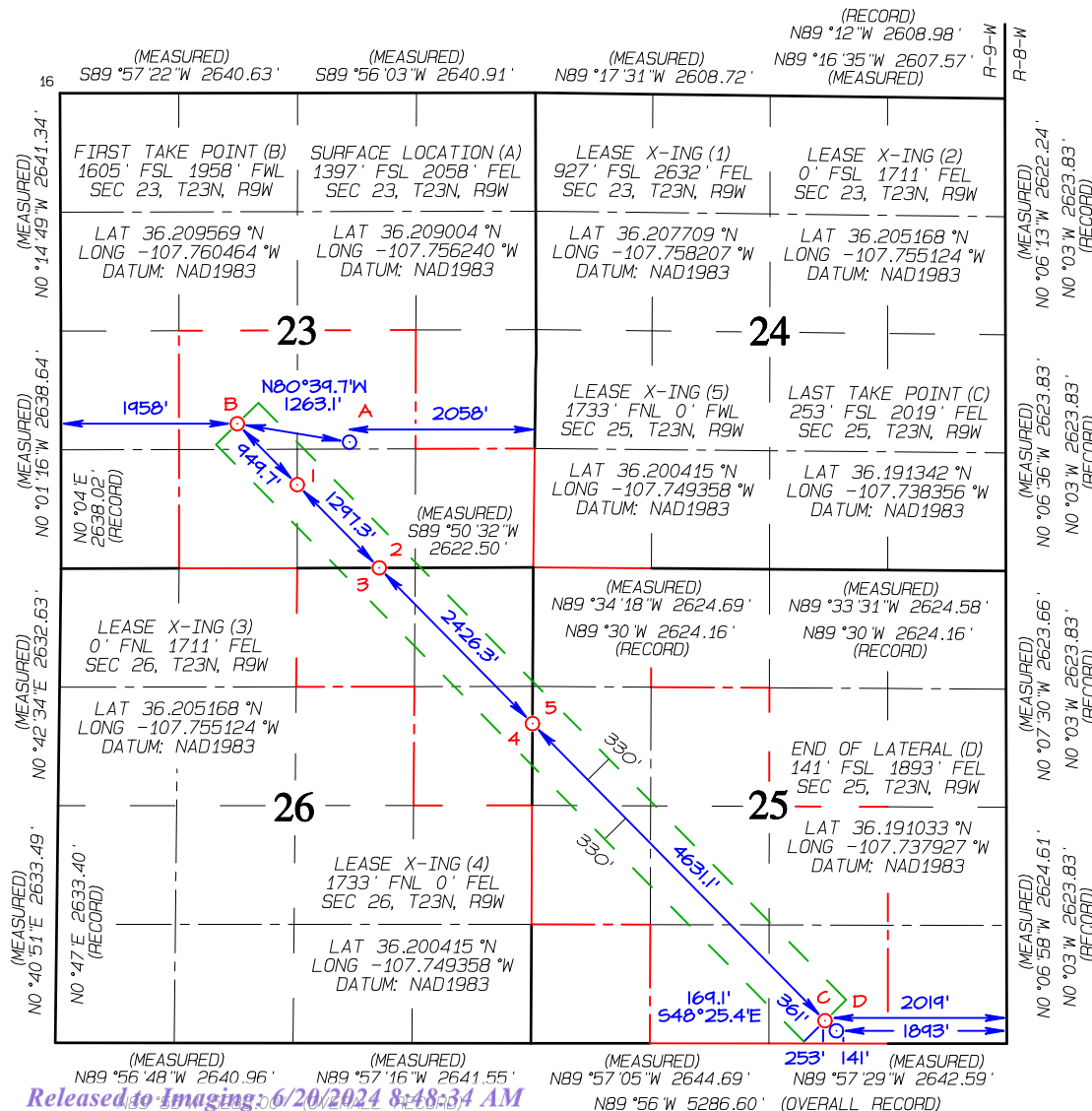
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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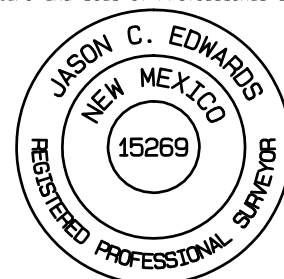
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Signature: Heather Huntington Date: 2/28/24Printed Name: Heather Huntington
E-mail Address: hhuntington@enduringresources.com¹⁸ SURVEYOR CERTIFICATION

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Date Revised: FEBRUARY 27, 2024
Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor

Jason C. Edwards
Certificate Number 15269

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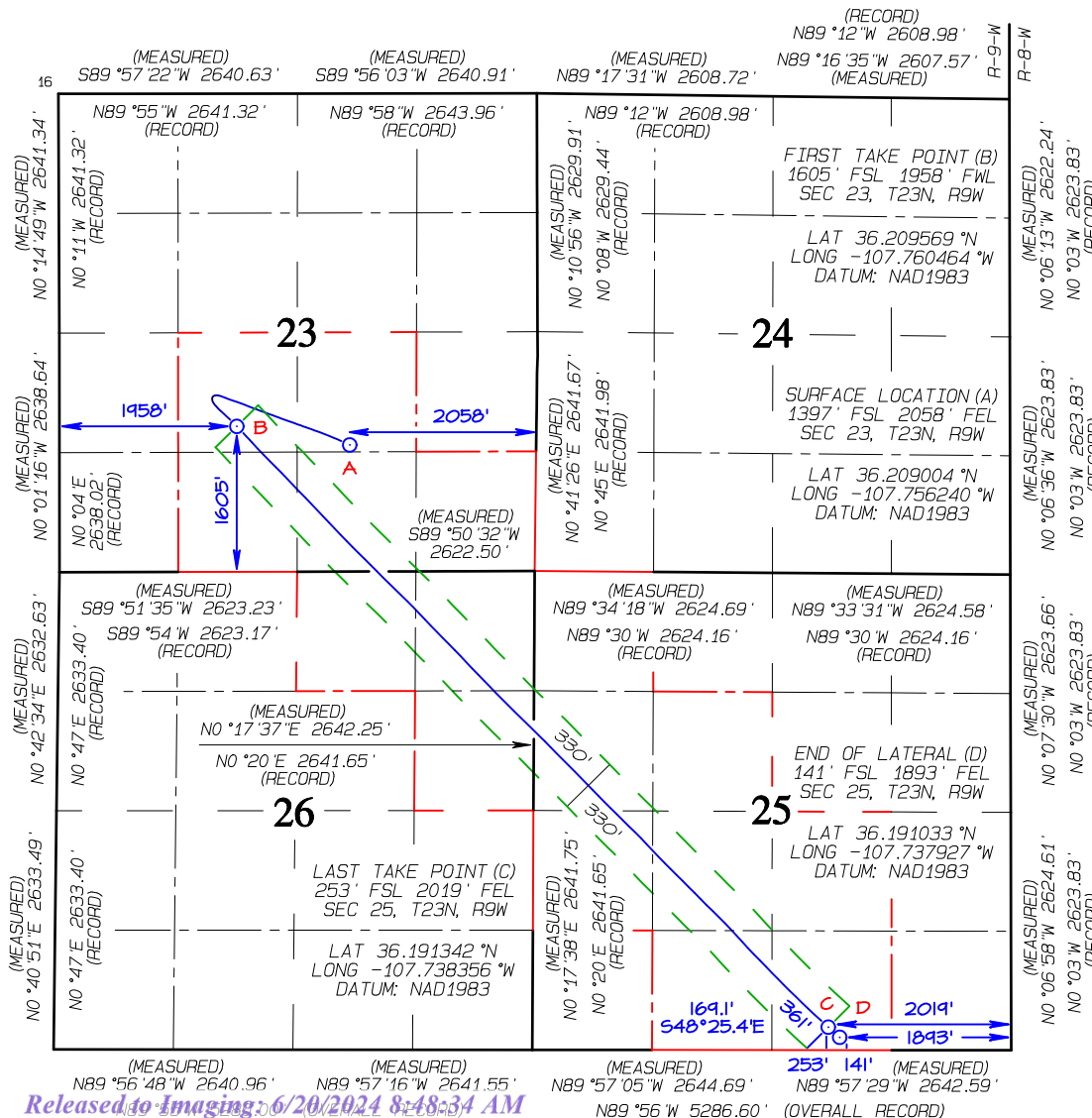
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Heath H. 2/28/24

Signature	Date
-----------	------

Heather Huntington

Printed Name _____

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Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number	15269
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Well: Greater Lybrook Unit No. 053H
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

ANNOTATIONS SURVEYS

Annotation

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
426.00	0.50	268.00	425.99	-0.06	-1.82	-1.23	MWD surveys
2950.20	32.26	291.07	2670.58	386.92	-1014.01	-986.94	9 5/8" Casing shoe @ 2950.20 MD 2670.58 TVD
4900.81	70.00	135.16	4304.70	204.81	-1246.31	-1020.02	FTP @ 4900.81 MD 4304.70 TVD
14211.70	92.90	131.91	4274.70	-6424.69	5282.29	8284.43	LTP @ 14211.70 MD 4274.70 TVD
14223.00	92.91	131.85	4274.13	-6432.23	5290.69	8295.70	330 pd @ 14223.00 MD 4274.13 TVD
14288.00	93.00	131.48	4270.78	-6475.38	5339.18	8360.47	Survey @ 14288.00 MD 4270.78 TVD
14381.00	93.00	131.48	4265.91	-6536.90	5408.76	8453.11	Survey proj. to 14381.00 MD 4265.91 TVD 141 FSL 1894 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)

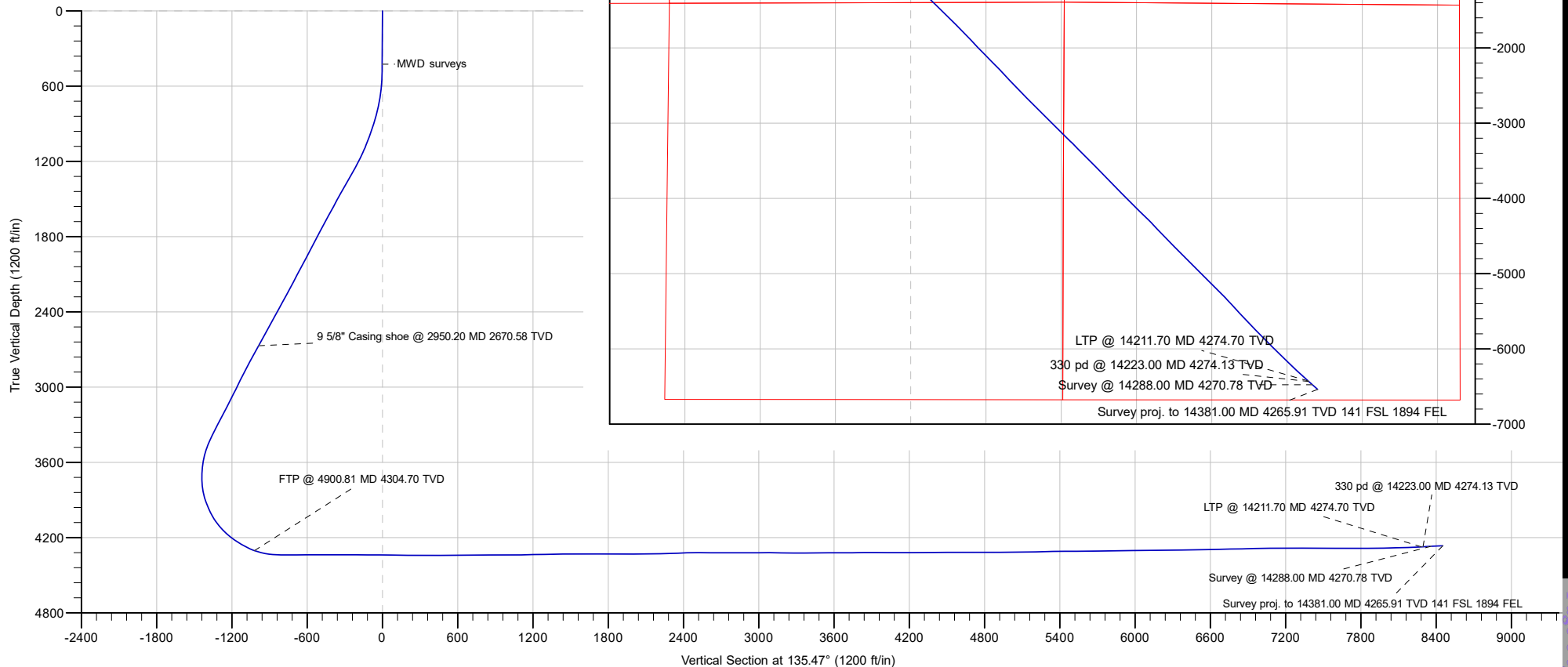
Surface location:
Northing: 1895384.12 Easting: 2745834.58 Latitude: 36.20900400 Longitude: -107.75624000

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





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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
From:	Lat/Long	Easting:	2,745,902.47 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.20888700
		Longitude:	-107.75601000

Well	Greater Lybrook Unit No. 053H, Surf loc: 1397 FSL 2058 FEL Section 23-T23N-R09W		
Well Position	+N/-S	0.00 ft	Northing: 1,895,384.12 usft
	+E/-W	0.00 ft	Easting: 2,745,834.58 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.05 °	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	49,032.36247107

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	2/16/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,859.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,899.00	14,288.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,381.00	14,381.00	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	
426.00	0.50	268.00	425.99	-0.06	-1.82	-1.23	0.12	0.12	0.00	
MWD surveys										
485.00	1.31	290.29	484.99	0.16	-2.71	-2.02	1.47	1.37	37.78	
544.00	3.12	296.52	543.94	1.11	-4.78	-4.15	3.09	3.07	10.56	
604.00	5.67	297.40	603.76	3.21	-8.88	-8.51	4.25	4.25	1.47	
664.00	8.31	295.24	663.31	6.42	-15.43	-15.40	4.42	4.40	-3.60	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
725.00	10.49	295.84	723.49	10.72	-24.42	-24.76	3.58	3.57	0.98
785.00	13.59	295.72	782.16	16.16	-35.69	-36.55	5.17	5.17	-0.20
845.00	16.46	296.16	840.10	22.97	-49.67	-51.21	4.79	4.78	0.73
904.00	18.53	295.11	896.37	30.63	-65.66	-67.89	3.55	3.51	-1.78
964.00	20.10	294.31	952.99	38.92	-83.69	-86.44	2.65	2.62	-1.33
1,029.00	22.12	293.64	1,013.63	48.43	-105.08	-108.22	3.13	3.11	-1.03
1,092.00	23.76	293.30	1,071.64	58.21	-127.61	-130.98	2.61	2.60	-0.54
1,155.00	25.94	292.64	1,128.80	68.53	-151.98	-155.44	3.49	3.46	-1.05
1,219.00	28.31	291.59	1,185.76	79.51	-179.02	-182.22	3.78	3.70	-1.64
1,282.00	30.45	291.44	1,240.66	90.84	-207.77	-210.46	3.40	3.40	-0.24
1,345.00	31.65	292.37	1,294.63	102.97	-237.92	-240.25	2.05	1.90	1.48
1,408.00	32.03	292.35	1,348.15	115.61	-268.65	-270.82	0.60	0.60	-0.03
1,471.00	32.17	291.80	1,401.52	128.19	-299.68	-301.54	0.51	0.22	-0.87
1,534.00	31.54	290.21	1,455.03	140.11	-330.71	-331.81	1.67	-1.00	-2.52
1,597.00	30.97	289.69	1,508.89	151.27	-361.44	-361.31	1.00	-0.90	-0.83
1,660.00	31.49	288.99	1,562.76	162.08	-392.26	-390.63	1.01	0.83	-1.11
1,723.00	31.34	289.50	1,616.52	172.91	-423.26	-420.09	0.48	-0.24	0.81
1,786.00	30.89	289.61	1,670.46	183.80	-453.94	-449.37	0.72	-0.71	0.17
1,849.00	31.38	289.79	1,724.38	194.78	-484.61	-478.70	0.79	0.78	0.29
1,913.00	30.56	289.96	1,779.26	205.98	-515.58	-508.41	1.29	-1.28	0.27
1,976.00	29.39	289.78	1,833.83	216.68	-545.18	-536.79	1.86	-1.86	-0.29
2,039.00	29.69	289.50	1,888.64	227.12	-574.43	-564.75	0.52	0.48	-0.44
2,102.00	30.34	289.94	1,943.19	237.75	-604.10	-593.13	1.09	1.03	0.70
2,165.00	31.22	290.02	1,997.32	248.77	-634.40	-622.24	1.40	1.40	0.13
2,228.00	30.84	289.30	2,051.30	259.69	-664.98	-651.47	0.84	-0.60	-1.14
2,291.00	29.83	289.51	2,105.68	270.27	-694.99	-680.05	1.61	-1.60	0.33
2,354.00	30.23	289.59	2,160.22	280.82	-724.70	-708.41	0.64	0.63	0.13
2,417.00	30.54	289.86	2,214.57	291.57	-754.70	-737.11	0.54	0.49	0.43
2,480.00	31.04	290.02	2,268.69	302.57	-785.01	-766.21	0.80	0.79	0.25
2,543.00	31.44	290.36	2,322.55	313.85	-815.68	-795.76	0.69	0.63	0.54
2,606.00	31.32	290.59	2,376.34	325.32	-846.41	-825.49	0.27	-0.19	0.37
2,669.00	30.54	290.13	2,430.38	336.59	-876.77	-854.81	1.29	-1.24	-0.73
2,732.00	30.79	289.90	2,484.57	347.59	-906.96	-883.82	0.44	0.40	-0.37
2,796.00	31.31	289.66	2,539.40	358.76	-938.02	-913.57	0.84	0.81	-0.38
2,859.00	31.59	290.57	2,593.14	370.06	-968.89	-943.27	0.87	0.44	1.44
2,899.00	31.80	290.12	2,627.18	377.37	-988.59	-962.30	0.79	0.53	-1.13
2,950.20	32.26	291.07	2,670.58	386.92	-1,014.01	-986.94	1.34	0.91	1.86
9 5/8" Casing shoe @ 2950.20 MD 2670.58 TVD									
2,976.00	32.50	291.54	2,692.37	391.94	-1,026.88	-999.54	1.34	0.92	1.82
3,070.00	30.04	289.42	2,772.71	409.04	-1,072.57	-1,043.77	2.87	-2.62	-2.26
3,165.00	29.66	292.43	2,855.11	425.92	-1,116.73	-1,086.77	1.63	-0.40	3.17
3,259.00	28.80	291.25	2,937.14	443.00	-1,159.33	-1,128.82	1.10	-0.91	-1.26
3,354.00	28.17	289.44	3,020.64	458.75	-1,201.80	-1,169.84	1.12	-0.66	-1.91
3,448.00	30.58	289.74	3,102.55	474.22	-1,245.24	-1,211.33	2.57	2.56	0.32



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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)
3,542.00	29.07	287.88	3,184.10	489.31	-1,289.48	-1,253.11	1.88	-1.61	-1.98
3,637.00	30.87	291.28	3,266.40	505.24	-1,334.16	-1,295.80	2.60	1.89	3.58
3,732.00	29.40	290.17	3,348.56	522.13	-1,378.76	-1,339.12	1.65	-1.55	-1.17
3,826.00	25.56	289.61	3,431.94	536.89	-1,419.54	-1,378.24	4.09	-4.09	-0.60
3,857.00	24.74	288.58	3,460.00	541.20	-1,431.99	-1,390.04	3.00	-2.65	-3.32
3,888.00	22.87	284.17	3,488.36	544.75	-1,443.98	-1,400.98	8.32	-6.03	-14.23
3,920.00	20.80	277.87	3,518.07	547.05	-1,455.64	-1,410.79	9.76	-6.47	-19.69
3,951.00	19.08	269.31	3,547.22	547.74	-1,466.16	-1,418.67	10.92	-5.55	-27.61
3,983.00	16.94	264.98	3,577.65	547.27	-1,476.04	-1,425.26	7.88	-6.69	-13.53
4,014.00	14.86	260.11	3,607.46	546.19	-1,484.45	-1,430.39	7.97	-6.71	-15.71
4,045.00	13.68	251.90	3,637.51	544.37	-1,491.85	-1,434.28	7.55	-3.81	-26.48
4,077.00	12.47	243.28	3,668.68	541.64	-1,498.54	-1,437.02	7.16	-3.78	-26.94
4,108.00	11.68	234.55	3,699.00	538.31	-1,504.08	-1,438.54	6.41	-2.55	-28.16
4,139.00	12.17	222.78	3,729.33	534.10	-1,508.86	-1,438.88	7.99	1.58	-37.97
4,171.00	13.19	211.66	3,760.56	528.51	-1,513.07	-1,437.85	8.25	3.19	-34.75
4,202.00	13.96	200.63	3,790.69	522.00	-1,516.24	-1,435.44	8.70	2.48	-35.58
4,234.00	15.15	184.87	3,821.68	514.22	-1,517.96	-1,431.09	12.88	3.72	-49.25
4,265.00	16.62	175.79	3,851.50	505.76	-1,517.98	-1,425.08	9.30	4.74	-29.29
4,296.00	18.61	170.08	3,881.05	496.46	-1,516.80	-1,417.62	8.49	6.42	-18.42
4,328.00	21.20	163.79	3,911.14	485.87	-1,514.30	-1,408.33	10.49	8.09	-19.66
4,359.00	23.18	156.36	3,939.84	474.90	-1,510.29	-1,397.69	11.07	6.39	-23.97
4,391.00	24.09	148.24	3,969.17	463.57	-1,504.33	-1,385.43	10.55	2.84	-25.38
4,422.00	25.75	140.94	3,997.29	452.96	-1,496.75	-1,372.55	11.27	5.35	-23.55
4,453.00	29.32	138.81	4,024.77	442.02	-1,487.51	-1,358.27	11.94	11.52	-6.87
4,485.00	32.98	139.28	4,052.15	429.52	-1,476.66	-1,341.75	11.46	11.44	1.47
4,516.00	36.47	137.94	4,077.63	416.28	-1,464.98	-1,324.12	11.52	11.26	-4.32
4,548.00	39.51	135.31	4,102.85	401.98	-1,451.45	-1,304.44	10.76	9.50	-8.22
4,579.00	41.88	133.91	4,126.35	387.79	-1,437.05	-1,284.23	8.19	7.65	-4.52
4,611.00	44.75	132.67	4,149.63	372.74	-1,421.07	-1,262.29	9.35	8.97	-3.88
4,642.00	47.66	132.13	4,171.08	357.66	-1,404.55	-1,239.95	9.47	9.39	-1.74
4,674.00	50.44	131.99	4,192.05	341.47	-1,386.61	-1,215.83	8.69	8.69	-0.44
4,705.00	53.87	132.79	4,211.07	324.96	-1,368.53	-1,191.39	11.25	11.06	2.58
4,737.00	57.15	133.69	4,229.19	306.89	-1,349.32	-1,165.04	10.51	10.25	2.81
4,768.00	59.76	134.50	4,245.40	288.51	-1,330.35	-1,138.63	8.71	8.42	2.61
4,800.00	60.31	135.01	4,261.39	268.99	-1,310.67	-1,110.91	2.20	1.72	1.59
4,831.00	62.29	134.73	4,276.27	249.81	-1,291.40	-1,083.72	6.44	6.39	-0.90
4,863.00	65.37	134.92	4,290.39	229.57	-1,271.03	-1,055.00	9.64	9.63	0.59
4,894.00	69.29	135.10	4,302.33	209.34	-1,250.81	-1,026.41	12.66	12.65	0.58
4,900.81	70.00	135.16	4,304.70	204.81	-1,246.31	-1,020.02	10.44	10.41	0.92
FTP @ 4900.81 MD 4304.70 TVD									
4,926.00	72.62	135.39	4,312.77	187.86	-1,229.52	-996.16	10.44	10.41	0.90
4,957.00	75.88	135.96	4,321.19	166.52	-1,208.67	-966.33	10.66	10.52	1.84
4,989.00	79.36	136.37	4,328.05	143.98	-1,187.03	-935.08	10.95	10.88	1.28



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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)	
5,020.00	82.67	136.68	4,332.89	121.76	-1,165.97	-904.47	10.72	10.68	1.00	
5,051.00	85.53	137.04	4,336.07	99.26	-1,144.88	-873.65	9.30	9.23	1.16	
5,115.00	89.43	137.62	4,338.89	52.26	-1,101.56	-809.76	6.16	6.09	0.91	
5,146.00	89.92	137.43	4,339.06	29.39	-1,080.62	-778.78	1.70	1.58	-0.61	
5,240.00	90.60	136.96	4,338.63	-39.57	-1,016.75	-684.82	0.88	0.72	-0.50	
5,335.00	90.43	136.33	4,337.78	-108.64	-951.54	-589.85	0.69	-0.18	-0.66	
5,430.00	90.27	135.29	4,337.20	-176.76	-885.32	-494.85	1.11	-0.17	-1.09	
5,524.00	89.70	133.40	4,337.23	-242.46	-818.10	-400.87	2.10	-0.61	-2.01	
5,619.00	89.94	136.41	4,337.52	-309.52	-750.82	-305.89	3.18	0.25	3.17	
5,713.00	89.94	136.94	4,337.62	-377.90	-686.32	-211.91	0.56	0.00	0.56	
5,808.00	89.58	136.34	4,338.02	-446.97	-621.10	-116.93	0.74	-0.38	-0.63	
5,903.00	89.56	136.15	4,338.73	-515.58	-555.40	-21.94	0.20	-0.02	-0.20	
5,997.00	88.96	135.26	4,339.95	-582.86	-489.76	72.05	1.14	-0.64	-0.95	
6,091.00	89.79	137.06	4,340.97	-650.65	-424.66	166.03	2.11	0.88	1.91	
6,185.00	89.70	136.30	4,341.39	-719.04	-360.17	260.01	0.81	-0.10	-0.81	
6,280.00	89.45	136.47	4,342.10	-787.81	-294.64	354.99	0.32	-0.26	0.18	
6,374.00	88.92	135.78	4,343.43	-855.57	-229.50	448.98	0.93	-0.56	-0.73	
6,468.00	90.73	136.81	4,343.72	-923.52	-164.55	542.96	2.22	1.93	1.10	
6,562.00	91.17	136.33	4,342.16	-991.77	-99.94	636.93	0.69	0.47	-0.51	
6,656.00	90.99	135.90	4,340.39	-1,059.51	-34.79	730.91	0.50	-0.19	-0.46	
6,750.00	90.64	135.25	4,339.05	-1,126.63	31.00	824.90	0.79	-0.37	-0.69	
6,844.00	90.17	134.69	4,338.39	-1,193.06	97.50	918.89	0.78	-0.50	-0.60	
6,939.00	89.66	133.83	4,338.53	-1,259.36	165.54	1,013.87	1.05	-0.54	-0.91	
7,033.00	90.77	135.62	4,338.18	-1,325.51	232.32	1,107.85	2.24	1.18	1.90	
7,127.00	91.23	135.41	4,336.54	-1,392.56	298.18	1,201.84	0.54	0.49	-0.22	
7,222.00	91.22	134.89	4,334.50	-1,459.90	365.16	1,296.82	0.55	-0.01	-0.55	
7,316.00	91.18	134.40	4,332.54	-1,525.94	432.02	1,390.78	0.52	-0.04	-0.52	
7,411.00	91.04	133.98	4,330.70	-1,592.14	500.13	1,485.74	0.47	-0.15	-0.44	
7,505.00	89.45	134.82	4,330.29	-1,657.91	567.29	1,579.72	1.91	-1.69	0.89	
7,599.00	89.33	133.80	4,331.29	-1,723.57	634.54	1,673.70	1.09	-0.13	-1.09	
7,693.00	89.72	135.49	4,332.07	-1,789.62	701.42	1,767.68	1.85	0.41	1.80	
7,787.00	90.21	136.93	4,332.13	-1,857.47	766.47	1,861.67	1.62	0.52	1.53	
7,881.00	90.40	136.84	4,331.63	-1,926.09	830.71	1,955.64	0.22	0.20	-0.10	
7,975.00	90.49	136.29	4,330.90	-1,994.34	895.34	2,049.62	0.59	0.10	-0.59	
8,070.00	90.80	135.69	4,329.83	-2,062.67	961.34	2,144.61	0.71	0.33	-0.63	
8,164.00	91.43	135.34	4,328.00	-2,129.71	1,027.19	2,238.59	0.77	0.67	-0.37	
8,258.00	92.43	135.10	4,324.84	-2,196.40	1,093.37	2,332.53	1.09	1.06	-0.26	
8,352.00	91.31	135.55	4,321.77	-2,263.21	1,159.42	2,426.48	1.28	-1.19	0.48	
8,447.00	89.51	136.89	4,321.09	-2,331.79	1,225.14	2,521.47	2.36	-1.89	1.41	
8,541.00	89.82	137.02	4,321.64	-2,400.49	1,289.30	2,615.43	0.36	0.33	0.14	
8,635.00	89.88	136.36	4,321.89	-2,468.88	1,353.78	2,709.41	0.71	0.06	-0.70	
8,730.00	89.78	135.58	4,322.17	-2,537.19	1,419.81	2,804.41	0.83	-0.11	-0.82	
8,824.00	90.16	135.63	4,322.22	-2,604.35	1,485.57	2,898.40	0.41	0.40	0.05	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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)	
8,918.00	91.03	136.24	4,321.24	-2,671.89	1,550.94	2,992.40	1.13	0.93	0.65	
9,012.00	89.06	135.87	4,321.17	-2,739.57	1,616.17	3,086.39	2.13	-2.10	-0.39	
9,106.00	89.23	135.31	4,322.57	-2,806.71	1,681.94	3,180.37	0.62	0.18	-0.60	
9,201.00	89.49	134.60	4,323.63	-2,873.83	1,749.17	3,275.36	0.80	0.27	-0.75	
9,295.00	90.28	134.53	4,323.82	-2,939.79	1,816.14	3,369.35	0.84	0.84	-0.07	
9,389.00	90.68	134.45	4,323.03	-3,005.66	1,883.19	3,463.33	0.43	0.43	-0.09	
9,483.00	90.80	133.67	4,321.82	-3,071.02	1,950.73	3,557.30	0.84	0.13	-0.83	
9,578.00	89.76	134.80	4,321.35	-3,137.29	2,018.80	3,652.27	1.62	-1.09	1.19	
9,672.00	90.41	134.11	4,321.21	-3,203.12	2,085.89	3,746.26	1.01	0.69	-0.73	
9,767.00	91.38	135.39	4,319.73	-3,270.00	2,153.35	3,841.23	1.69	1.02	1.35	
9,861.00	89.29	136.01	4,319.18	-3,337.27	2,219.00	3,935.22	2.32	-2.22	0.66	
9,955.00	89.60	135.82	4,320.09	-3,404.78	2,284.39	4,029.22	0.39	0.33	-0.20	
10,049.00	90.00	134.81	4,320.42	-3,471.61	2,350.49	4,123.22	1.16	0.43	-1.07	
10,143.00	89.84	134.06	4,320.55	-3,537.42	2,417.61	4,217.20	0.82	-0.17	-0.80	
10,237.00	90.19	135.90	4,320.53	-3,603.86	2,484.10	4,311.19	1.99	0.37	1.96	
10,331.00	90.91	135.90	4,319.62	-3,671.36	2,549.51	4,405.18	0.77	0.77	0.00	
10,425.00	91.48	135.32	4,317.66	-3,738.52	2,615.25	4,499.16	0.87	0.61	-0.62	
10,519.00	88.96	136.03	4,317.30	-3,805.76	2,680.93	4,593.15	2.79	-2.68	0.76	
10,613.00	89.59	136.10	4,318.49	-3,873.45	2,746.14	4,687.14	0.67	0.67	0.07	
10,707.00	89.78	135.33	4,319.01	-3,940.74	2,811.78	4,781.14	0.84	0.20	-0.82	
10,801.00	89.95	134.59	4,319.23	-4,007.16	2,878.29	4,875.13	0.81	0.18	-0.79	
10,896.00	90.91	134.85	4,318.52	-4,074.00	2,945.79	4,970.12	1.05	1.01	0.27	
10,990.00	91.18	134.63	4,316.80	-4,140.16	3,012.55	5,064.10	0.37	0.29	-0.23	
11,084.00	91.43	134.37	4,314.66	-4,206.03	3,079.58	5,158.06	0.38	0.27	-0.28	
11,178.00	91.81	133.92	4,312.00	-4,271.47	3,147.00	5,252.00	0.63	0.40	-0.48	
11,272.00	90.13	136.60	4,310.41	-4,338.22	3,213.15	5,345.97	3.36	-1.79	2.85	
11,366.00	90.25	136.65	4,310.10	-4,406.55	3,277.70	5,439.95	0.14	0.13	0.05	
11,461.00	90.54	136.70	4,309.45	-4,475.65	3,342.89	5,534.93	0.31	0.31	0.05	
11,555.00	90.62	135.84	4,308.49	-4,543.57	3,407.86	5,628.91	0.92	0.09	-0.91	
11,649.00	90.44	135.32	4,307.62	-4,610.71	3,473.65	5,722.91	0.59	-0.19	-0.55	
11,743.00	90.70	134.91	4,306.69	-4,677.31	3,539.98	5,816.90	0.52	0.28	-0.44	
11,837.00	90.82	134.69	4,305.44	-4,743.54	3,606.67	5,910.89	0.27	0.13	-0.23	
11,931.00	91.38	134.74	4,303.64	-4,809.66	3,673.46	6,004.86	0.60	0.60	0.05	
12,025.00	90.15	135.57	4,302.38	-4,876.30	3,739.74	6,098.85	1.58	-1.31	0.88	
12,120.00	90.37	135.35	4,301.95	-4,944.01	3,806.37	6,193.85	0.33	0.23	-0.23	
12,213.00	90.74	135.41	4,301.05	-5,010.20	3,871.69	6,286.84	0.40	0.40	0.06	
12,308.00	90.77	134.72	4,299.80	-5,077.45	3,938.78	6,381.83	0.73	0.03	-0.73	
12,402.00	91.31	134.12	4,298.09	-5,143.23	4,005.91	6,475.80	0.86	0.57	-0.64	
12,496.00	91.17	135.16	4,296.06	-5,209.26	4,072.78	6,569.77	1.12	-0.15	1.11	
12,590.00	91.78	135.00	4,293.64	-5,275.80	4,139.13	6,663.73	0.67	0.65	-0.17	
12,685.00	90.62	137.27	4,291.65	-5,344.27	4,204.94	6,758.70	2.68	-1.22	2.39	
12,779.00	90.86	137.74	4,290.44	-5,413.58	4,268.44	6,852.63	0.56	0.26	0.50	
12,873.00	91.33	137.23	4,288.64	-5,482.85	4,331.95	6,946.55	0.74	0.50	-0.54	
12,967.00	91.88	137.34	4,286.01	-5,551.89	4,395.69	7,040.47	0.60	0.59	0.12	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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)
13,061.00	89.87	136.14	4,284.57	-5,620.33	4,460.09	7,134.43	2.49	-2.14	-1.28
13,155.00	89.72	135.24	4,284.91	-5,687.59	4,525.76	7,228.43	0.97	-0.16	-0.96
13,250.00	90.20	135.85	4,284.97	-5,755.40	4,592.29	7,323.42	0.82	0.51	0.64
13,344.00	89.11	135.57	4,285.54	-5,822.69	4,657.93	7,417.42	1.20	-1.16	-0.30
13,438.00	89.72	135.34	4,286.50	-5,889.68	4,723.86	7,511.42	0.69	0.65	-0.24
13,532.00	91.13	135.63	4,285.80	-5,956.70	4,789.76	7,605.41	1.53	1.50	0.31
13,627.00	89.27	134.38	4,285.47	-6,023.88	4,856.92	7,700.40	2.36	-1.96	-1.32
13,722.00	89.76	134.01	4,286.27	-6,090.10	4,925.03	7,795.37	0.65	0.52	-0.39
13,816.00	90.54	133.91	4,286.03	-6,155.35	4,992.70	7,889.34	0.84	0.83	-0.11
13,910.00	91.15	133.72	4,284.64	-6,220.42	5,060.52	7,983.29	0.68	0.65	-0.20
14,004.00	91.36	132.86	4,282.58	-6,284.86	5,128.92	8,077.20	0.94	0.22	-0.91
14,099.00	92.10	132.35	4,279.72	-6,349.14	5,198.81	8,172.04	0.95	0.78	-0.54
14,193.00	92.87	132.02	4,275.64	-6,412.21	5,268.40	8,265.79	0.89	0.82	-0.35
14,211.70	92.90	131.91	4,274.70	-6,424.69	5,282.29	8,284.43	0.58	0.14	-0.57
LTP @ 14211.70 MD 4274.70 TVD									
14,223.00	92.91	131.85	4,274.13	-6,432.23	5,290.69	8,295.70	0.58	0.14	-0.57
330 pd @ 14223.00 MD 4274.13 TVD									
14,288.00	93.00	131.48	4,270.78	-6,475.38	5,339.18	8,360.47	0.58	0.14	-0.57
Survey @ 14288.00 MD 4270.78 TVD									
14,381.00	93.00	131.48	4,265.91	-6,536.90	5,408.76	8,453.11	0.00	0.00	0.00
Survey proj. to 14381.00 MD 4265.91 TVD 141 FSL 1894 FEL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
426.00	425.99	-0.06	-1.82	MWD surveys
2,950.20	2,670.58	386.92	-1,014.01	9 5/8" Casing shoe @ 2950.20 MD 2670.58 TVD
4,900.81	4,304.70	204.81	-1,246.31	FTP @ 4900.81 MD 4304.70 TVD
14,211.70	4,274.70	-6,424.69	5,282.29	LTP @ 14211.70 MD 4274.70 TVD
14,223.00	4,274.13	-6,432.23	5,290.69	330 pd @ 14223.00 MD 4274.13 TVD
14,288.00	4,270.78	-6,475.38	5,339.18	Survey @ 14288.00 MD 4270.78 TVD
14,381.00	4,265.91	-6,536.90	5,408.76	Survey proj. to 14381.00 MD 4265.91 TVD 141 FSL 1894 FEL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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. 053H, Surf loc: 1397 FSL 2058 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,895,384.12 usft	Latitude:	36.20900400
	+E/-W	0.00 ft	Easting:	2,745,834.58 usft	Longitude:	-107.75624000
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	49,032.36247107

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	2/16/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,859.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,899.00	14,288.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,381.00	14,381.00	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	1,895,384.12	2,745,834.58	36.20900400	-107.75624000	
8.00	0.00	0.00	8.00	0.00	0.00	1,895,384.12	2,745,834.58	36.20900400	-107.75624000	
426.00	0.50	268.00	425.99	-0.06	-1.82	1,895,384.06	2,745,832.76	36.20900383	-107.75624618	
MWD surveys										
485.00	1.31	290.29	484.99	0.16	-2.71	1,895,384.28	2,745,831.87	36.20900445	-107.75624920	
544.00	3.12	296.52	543.94	1.11	-4.78	1,895,385.24	2,745,829.80	36.20900707	-107.75625621	
604.00	5.67	297.40	603.76	3.21	-8.88	1,895,387.33	2,745,825.71	36.20901283	-107.75627008	
664.00	8.31	295.24	663.31	6.42	-15.43	1,895,390.54	2,745,819.15	36.20902167	-107.75629229	
725.00	10.49	295.84	723.49	10.72	-24.42	1,895,394.84	2,745,810.17	36.20903350	-107.75632274	
785.00	13.59	295.72	782.16	16.16	-35.69	1,895,400.28	2,745,798.90	36.20904847	-107.75636093	



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Well:	Greater Lybrook Unit No. 053H	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
845.00	16.46	296.16	840.10	22.97	-49.67	1,895,407.09	2,745,784.92	36.20906721	-107.75640831
904.00	18.53	295.11	896.37	30.63	-65.66	1,895,414.76	2,745,768.92	36.20908830	-107.75646250
964.00	20.10	294.31	952.99	38.92	-83.69	1,895,423.05	2,745,750.89	36.20911111	-107.75652360
1,029.00	22.12	293.64	1,013.63	48.43	-105.08	1,895,432.55	2,745,729.50	36.20913727	-107.75659608
1,092.00	23.76	293.30	1,071.64	58.21	-127.61	1,895,442.33	2,745,706.98	36.20916418	-107.75667241
1,155.00	25.94	292.64	1,128.80	68.53	-151.98	1,895,452.66	2,745,682.60	36.20919260	-107.75675501
1,219.00	28.31	291.59	1,185.76	79.51	-179.02	1,895,463.63	2,745,655.57	36.20922280	-107.75684662
1,282.00	30.45	291.44	1,240.66	90.84	-207.77	1,895,474.96	2,745,626.81	36.20925400	-107.75694406
1,345.00	31.65	292.37	1,294.63	102.97	-237.92	1,895,487.09	2,745,596.67	36.20928737	-107.75704621
1,408.00	32.03	292.35	1,348.15	115.61	-268.65	1,895,499.73	2,745,565.93	36.20932217	-107.75715037
1,471.00	32.17	291.80	1,401.52	128.19	-299.68	1,895,512.31	2,745,534.91	36.20935680	-107.75725550
1,534.00	31.54	290.21	1,455.03	140.11	-330.71	1,895,524.24	2,745,503.87	36.20938962	-107.75736067
1,597.00	30.97	289.69	1,508.89	151.27	-361.44	1,895,535.39	2,745,473.15	36.20942033	-107.75746479
1,660.00	31.49	288.99	1,562.76	162.08	-392.26	1,895,546.20	2,745,442.33	36.20945010	-107.75756924
1,723.00	31.34	289.50	1,616.52	172.91	-423.26	1,895,557.03	2,745,411.32	36.20947990	-107.75767430
1,786.00	30.89	289.61	1,670.46	183.80	-453.94	1,895,567.92	2,745,380.65	36.20950990	-107.75777827
1,849.00	31.38	289.79	1,724.38	194.78	-484.61	1,895,578.91	2,745,349.98	36.20954013	-107.75788219
1,913.00	30.56	289.96	1,779.26	205.98	-515.58	1,895,590.10	2,745,319.01	36.20957096	-107.75798715
1,976.00	29.39	289.78	1,833.83	216.68	-545.18	1,895,600.80	2,745,289.40	36.20960041	-107.75808747
2,039.00	29.69	289.50	1,888.64	227.12	-574.43	1,895,611.24	2,745,260.15	36.20962915	-107.75818661
2,102.00	30.34	289.94	1,943.19	237.75	-604.10	1,895,621.87	2,745,230.49	36.20965843	-107.75828714
2,165.00	31.22	290.02	1,997.32	248.77	-634.40	1,895,632.89	2,745,200.19	36.20968875	-107.75838981
2,228.00	30.84	289.30	2,051.30	259.69	-664.98	1,895,643.82	2,745,169.60	36.20971884	-107.75849345
2,291.00	29.83	289.51	2,105.68	270.27	-694.99	1,895,654.39	2,745,139.59	36.20974794	-107.75859515
2,354.00	30.23	289.59	2,160.22	280.82	-724.70	1,895,664.94	2,745,109.88	36.20977698	-107.75869584
2,417.00	30.54	289.86	2,214.57	291.57	-754.70	1,895,675.69	2,745,079.89	36.20980659	-107.75879749
2,480.00	31.04	290.02	2,268.69	302.57	-785.01	1,895,686.69	2,745,049.57	36.20983687	-107.75890023
2,543.00	31.44	290.36	2,322.55	313.85	-815.68	1,895,697.97	2,745,018.91	36.20986791	-107.75900415
2,606.00	31.32	290.59	2,376.34	325.32	-846.41	1,895,709.44	2,744,988.17	36.20989950	-107.75910829
2,669.00	30.54	290.13	2,430.38	336.59	-876.77	1,895,720.71	2,744,957.82	36.20993052	-107.75921117
2,732.00	30.79	289.90	2,484.57	347.59	-906.96	1,895,731.71	2,744,927.63	36.20996079	-107.75931348
2,796.00	31.31	289.66	2,539.40	358.76	-938.02	1,895,742.88	2,744,896.56	36.20999154	-107.75941875
2,859.00	31.59	290.57	2,593.14	370.06	-968.89	1,895,754.18	2,744,865.70	36.21002266	-107.75952335
2,899.00	31.80	290.12	2,627.18	377.37	-988.59	1,895,761.49	2,744,845.99	36.21004278	-107.75959012
2,950.20	32.26	291.07	2,670.58	386.92	-1,014.01	1,895,771.04	2,744,820.58	36.21006907	-107.75967626
9 5/8" Casing shoe @ 2950.20 MD 2670.58 TVD									
2,976.00	32.50	291.54	2,692.37	391.94	-1,026.88	1,895,776.06	2,744,807.70	36.21008289	-107.75971989
3,070.00	30.04	289.42	2,772.71	409.04	-1,072.57	1,895,793.16	2,744,762.02	36.21012996	-107.75987472
3,165.00	29.66	292.43	2,855.11	425.92	-1,116.73	1,895,810.04	2,744,717.86	36.21017641	-107.76002435
3,259.00	28.80	291.25	2,937.14	443.00	-1,159.33	1,895,827.12	2,744,675.26	36.21022342	-107.76016872
3,354.00	28.17	289.44	3,020.64	458.75	-1,201.80	1,895,842.88	2,744,632.78	36.21026679	-107.76031266
3,448.00	30.58	289.74	3,102.55	474.22	-1,245.24	1,895,858.34	2,744,589.35	36.21030936	-107.76045986
3,542.00	29.07	287.88	3,184.10	489.31	-1,289.48	1,895,873.43	2,744,545.10	36.21035090	-107.76060980
3,637.00	30.87	291.28	3,266.40	505.24	-1,334.16	1,895,889.36	2,744,500.42	36.21039477	-107.76076122
3,732.00	29.40	290.17	3,348.56	522.13	-1,378.76	1,895,906.25	2,744,455.82	36.21044125	-107.76091237
3,826.00	25.56	289.61	3,431.94	536.89	-1,419.54	1,895,921.01	2,744,415.05	36.21048190	-107.76105055
3,857.00	24.74	288.58	3,460.00	541.20	-1,431.99	1,895,925.33	2,744,402.60	36.21049376	-107.76109274
3,888.00	22.87	284.17	3,488.36	544.75	-1,443.98	1,895,928.87	2,744,390.61	36.21050352	-107.76113338
3,920.00	20.80	277.87	3,518.07	547.05	-1,455.64	1,895,931.17	2,744,378.95	36.21050986	-107.76117290
3,951.00	19.08	269.31	3,547.22	547.74	-1,466.16	1,895,931.86	2,744,368.43	36.21051179	-107.76120856
3,983.00	16.94	264.98	3,577.65	547.27	-1,476.04	1,895,931.39	2,744,358.55	36.21051051	-107.76124204
4,014.00	14.86	260.11	3,607.46	546.19	-1,484.45	1,895,930.31	2,744,350.13	36.21050757	-107.76127057
4,045.00	13.68	251.90	3,637.51	544.37	-1,491.85	1,895,928.49	2,744,342.73	36.21050258	-107.76129567
4,077.00	12.47	243.28	3,668.68	541.64	-1,498.54	1,895,925.76	2,744,336.05	36.21049510	-107.76131833
4,108.00	11.68	234.55	3,699.00	538.31	-1,504.08	1,895,922.44	2,744,330.50	36.21048597	-107.76133714



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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
4,139.00	12.17	222.78	3,729.33	534.10	-1,508.86	1,895,918.22	2,744,325.73	36.21047439	-107.76135334
4,171.00	13.19	211.66	3,760.56	528.51	-1,513.07	1,895,912.63	2,744,321.52	36.21045906	-107.76136762
4,202.00	13.96	200.63	3,790.69	522.00	-1,516.24	1,895,906.12	2,744,318.34	36.21044118	-107.76137840
4,234.00	15.15	184.87	3,821.68	514.22	-1,517.96	1,895,898.34	2,744,316.63	36.21041981	-107.76138423
4,265.00	16.62	175.79	3,851.50	505.76	-1,517.98	1,895,889.88	2,744,316.61	36.21039657	-107.76138432
4,296.00	18.61	170.08	3,881.05	496.46	-1,516.80	1,895,880.58	2,744,317.79	36.21037103	-107.76138035
4,328.00	21.20	163.79	3,911.14	485.87	-1,514.30	1,895,870.00	2,744,320.28	36.21034194	-107.76137191
4,359.00	23.18	156.36	3,939.84	474.90	-1,510.29	1,895,859.02	2,744,324.30	36.21031178	-107.76135834
4,391.00	24.09	148.24	3,969.17	463.57	-1,504.33	1,895,847.70	2,744,330.26	36.21028066	-107.76133815
4,422.00	25.75	140.94	3,997.29	452.96	-1,496.75	1,895,837.08	2,744,337.84	36.21025149	-107.76131250
4,453.00	29.32	138.81	4,024.77	442.02	-1,487.51	1,895,826.14	2,744,347.08	36.21022141	-107.76128118
4,485.00	32.98	139.28	4,052.15	429.52	-1,476.66	1,895,813.64	2,744,357.93	36.21018704	-107.76124445
4,516.00	36.47	137.94	4,077.63	416.28	-1,464.98	1,895,800.40	2,744,369.61	36.21015065	-107.76120489
4,548.00	39.51	135.31	4,102.85	401.98	-1,451.45	1,895,786.10	2,744,383.14	36.21011133	-107.76115905
4,579.00	41.88	133.91	4,126.35	387.79	-1,437.05	1,895,771.91	2,744,397.53	36.21007232	-107.76111030
4,611.00	44.75	132.67	4,149.63	372.74	-1,421.07	1,895,756.86	2,744,413.51	36.21003096	-107.76105617
4,642.00	47.66	132.13	4,171.08	357.66	-1,404.55	1,895,741.78	2,744,430.04	36.20998948	-107.76100019
4,674.00	50.44	131.99	4,192.05	341.47	-1,386.61	1,895,725.59	2,744,447.98	36.20994497	-107.76093941
4,705.00	53.87	132.79	4,211.07	324.96	-1,368.53	1,895,709.08	2,744,466.05	36.20989960	-107.76087818
4,737.00	57.15	133.69	4,229.19	306.89	-1,349.32	1,895,691.02	2,744,485.26	36.20984992	-107.76081312
4,768.00	59.76	134.50	4,245.40	288.51	-1,330.35	1,895,672.63	2,744,504.23	36.20979938	-107.76074886
4,800.00	60.31	135.01	4,261.39	268.99	-1,310.67	1,895,653.11	2,744,523.92	36.20974572	-107.76068217
4,831.00	62.29	134.73	4,276.27	249.81	-1,291.40	1,895,633.93	2,744,543.19	36.20969299	-107.76061690
4,863.00	65.37	134.92	4,290.39	229.57	-1,271.03	1,895,613.69	2,744,563.56	36.20963733	-107.76054791
4,894.00	69.29	135.10	4,302.33	209.34	-1,250.81	1,895,593.46	2,744,583.77	36.20958173	-107.76047943
4,900.81	70.00	135.16	4,304.70	204.81	-1,246.31	1,895,588.94	2,744,588.28	36.20956929	-107.76046417
FTP @ 4900.81 MD 4304.70 TVD									
4,926.00	72.62	135.39	4,312.77	187.86	-1,229.52	1,895,571.98	2,744,605.07	36.20952268	-107.76040730
4,957.00	75.88	135.96	4,321.19	166.52	-1,208.67	1,895,550.64	2,744,625.91	36.20946401	-107.76033670
4,989.00	79.36	136.37	4,328.05	143.98	-1,187.03	1,895,528.10	2,744,647.56	36.20940204	-107.76026339
5,020.00	82.67	136.68	4,332.89	121.76	-1,165.97	1,895,505.88	2,744,668.62	36.20934096	-107.76019204
5,051.00	85.53	137.04	4,336.07	99.26	-1,144.88	1,895,483.38	2,744,689.70	36.20927911	-107.76012064
5,115.00	89.43	137.62	4,338.89	52.26	-1,101.56	1,895,436.38	2,744,733.03	36.20914990	-107.75997389
5,146.00	89.92	137.43	4,339.06	29.39	-1,080.62	1,895,413.52	2,744,753.96	36.20908705	-107.75990299
5,240.00	90.60	136.96	4,338.63	-39.57	-1,016.75	1,895,344.55	2,744,817.83	36.20889747	-107.75968666
5,335.00	90.43	136.33	4,337.78	-108.64	-951.54	1,895,275.48	2,744,883.05	36.20870758	-107.75946577
5,430.00	90.27	135.29	4,337.20	-176.76	-885.32	1,895,207.36	2,744,949.27	36.20852032	-107.75924149
5,524.00	89.70	133.40	4,337.23	-242.46	-818.10	1,895,141.66	2,745,016.49	36.20833970	-107.75901380
5,619.00	89.94	136.41	4,337.52	-309.52	-750.82	1,895,074.61	2,745,083.76	36.20815535	-107.75878592
5,713.00	89.94	136.94	4,337.62	-377.90	-686.32	1,895,006.23	2,745,148.26	36.20796736	-107.75856747
5,808.00	89.58	136.34	4,338.02	-446.97	-621.10	1,894,937.16	2,745,213.48	36.20777748	-107.75834656
5,903.00	89.56	136.15	4,338.73	-515.58	-555.40	1,894,868.54	2,745,279.18	36.20758884	-107.75812404
5,997.00	88.96	135.26	4,339.95	-582.86	-489.76	1,894,801.27	2,745,344.82	36.20740389	-107.75790172
6,091.00	89.79	137.06	4,340.97	-650.65	-424.66	1,894,733.47	2,745,409.92	36.20721752	-107.75768123
6,185.00	89.70	136.30	4,341.39	-719.04	-360.17	1,894,665.09	2,745,474.41	36.20702952	-107.75746281
6,280.00	89.45	136.47	4,342.10	-787.81	-294.64	1,894,596.31	2,745,539.94	36.20684044	-107.75724087
6,374.00	88.92	135.78	4,343.43	-855.57	-229.50	1,894,528.56	2,745,605.08	36.20665418	-107.75702023
6,468.00	90.73	136.81	4,343.72	-923.52	-164.55	1,894,460.61	2,745,670.03	36.20646737	-107.75680027
6,562.00	91.17	136.33	4,342.16	-991.77	-99.94	1,894,392.35	2,745,734.64	36.20627973	-107.75658144
6,656.00	90.99	135.90	4,340.39	-1,059.51	-34.79	1,894,324.62	2,745,799.79	36.20609351	-107.75636079
6,750.00	90.64	135.25	4,339.05	-1,126.63	31.00	1,894,257.49	2,745,865.58	36.20590897	-107.75613796
6,844.00	90.17	134.69	4,338.39	-1,193.06	97.50	1,894,191.06	2,745,932.08	36.20572633	-107.75591273
6,939.00	89.66	133.83	4,338.53	-1,259.36	165.54	1,894,124.76	2,746,000.12	36.20554405	-107.75568229
7,033.00	90.77	135.62	4,338.18	-1,325.51	232.32	1,894,058.62	2,746,066.90	36.20536220	-107.75545611
7,127.00	91.23	135.41	4,336.54	-1,392.56	298.18	1,893,991.57	2,746,132.76	36.20517785	-107.75523306



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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
7,222.00	91.22	134.89	4,334.50	-1,459.90	365.16	1,893,924.23	2,746,199.74	36.20499273	-107.75500620
7,316.00	91.18	134.40	4,332.54	-1,525.94	432.02	1,893,858.19	2,746,266.61	36.20481116	-107.75477974
7,411.00	91.04	133.98	4,330.70	-1,592.14	500.13	1,893,791.98	2,746,334.71	36.20462914	-107.75454907
7,505.00	89.45	134.82	4,330.29	-1,657.91	567.29	1,893,726.22	2,746,401.87	36.20444832	-107.75432162
7,599.00	89.33	133.80	4,331.29	-1,723.57	634.54	1,893,660.56	2,746,469.13	36.20426780	-107.75409382
7,693.00	89.72	135.49	4,332.07	-1,789.62	701.42	1,893,594.51	2,746,536.00	36.20408621	-107.75386733
7,787.00	90.21	136.93	4,332.13	-1,857.47	766.47	1,893,526.66	2,746,601.05	36.20389966	-107.75364704
7,881.00	90.40	136.84	4,331.63	-1,926.09	830.71	1,893,458.04	2,746,665.29	36.20371101	-107.75342947
7,975.00	90.49	136.29	4,330.90	-1,994.34	895.34	1,893,389.78	2,746,729.92	36.20352336	-107.75321061
8,070.00	90.80	135.69	4,329.83	-2,062.67	961.34	1,893,321.46	2,746,795.92	36.20333553	-107.75298709
8,164.00	91.43	135.34	4,328.00	-2,129.71	1,027.19	1,893,254.41	2,746,861.77	36.20315118	-107.75276407
8,258.00	92.43	135.10	4,324.84	-2,196.40	1,093.37	1,893,187.73	2,746,927.95	36.20296785	-107.75253996
8,352.00	91.31	135.55	4,321.77	-2,263.21	1,159.42	1,893,120.92	2,746,994.00	36.20278417	-107.75231626
8,447.00	89.51	136.89	4,321.09	-2,331.79	1,225.14	1,893,052.34	2,747,059.72	36.20259561	-107.75209368
8,541.00	89.82	137.02	4,321.64	-2,400.49	1,289.30	1,892,983.64	2,747,123.88	36.20240675	-107.75187641
8,635.00	89.88	136.36	4,321.89	-2,468.88	1,353.78	1,892,915.24	2,747,188.36	36.20221870	-107.75165805
8,730.00	89.78	135.58	4,322.17	-2,537.19	1,419.81	1,892,846.94	2,747,254.39	36.20203092	-107.75143445
8,824.00	90.16	135.63	4,322.22	-2,604.35	1,485.57	1,892,779.78	2,747,320.15	36.20184625	-107.75121174
8,918.00	91.03	136.24	4,321.24	-2,671.89	1,550.94	1,892,712.24	2,747,385.52	36.20166056	-107.75099037
9,012.00	89.06	135.87	4,321.17	-2,739.57	1,616.17	1,892,644.56	2,747,450.75	36.20147450	-107.75076947
9,106.00	89.23	135.31	4,322.57	-2,806.71	1,681.94	1,892,577.42	2,747,516.52	36.20128990	-107.75054674
9,201.00	89.49	134.60	4,323.63	-2,873.83	1,749.17	1,892,510.30	2,747,583.75	36.20110536	-107.75031908
9,295.00	90.28	134.53	4,323.82	-2,939.79	1,816.14	1,892,444.34	2,747,650.72	36.20092401	-107.75009228
9,389.00	90.68	134.45	4,323.03	-3,005.66	1,883.19	1,892,378.47	2,747,717.77	36.20074289	-107.74986520
9,483.00	90.80	133.67	4,321.82	-3,071.02	1,950.73	1,892,313.11	2,747,785.31	36.20056317	-107.74963646
9,578.00	89.76	134.80	4,321.35	-3,137.29	2,018.80	1,892,246.84	2,747,853.38	36.20038096	-107.74940596
9,672.00	90.41	134.11	4,321.21	-3,203.12	2,085.89	1,892,181.01	2,747,920.47	36.20019996	-107.74917874
9,767.00	91.38	135.39	4,319.73	-3,270.00	2,153.35	1,892,114.13	2,747,987.93	36.20001610	-107.74895030
9,861.00	89.29	136.01	4,319.18	-3,337.27	2,219.00	1,892,046.86	2,748,053.58	36.19983114	-107.74872800
9,955.00	89.60	135.82	4,320.09	-3,404.78	2,284.39	1,891,979.35	2,748,118.97	36.19964551	-107.74850655
10,049.00	90.00	134.81	4,320.42	-3,471.61	2,350.49	1,891,912.52	2,748,185.07	36.19946176	-107.74828271
10,143.00	89.84	134.06	4,320.55	-3,537.42	2,417.61	1,891,846.71	2,748,252.19	36.19928081	-107.74805541
10,237.00	90.19	135.90	4,320.53	-3,603.86	2,484.10	1,891,780.27	2,748,318.68	36.19909813	-107.74783026
10,331.00	90.91	135.90	4,319.62	-3,671.36	2,549.51	1,891,712.77	2,748,384.09	36.19891254	-107.74760876
10,425.00	91.48	135.32	4,317.66	-3,738.52	2,615.25	1,891,645.61	2,748,449.83	36.19872790	-107.74738614
10,519.00	88.96	136.03	4,317.30	-3,805.76	2,680.93	1,891,578.37	2,748,515.51	36.19854302	-107.74716375
10,613.00	89.59	136.10	4,318.49	-3,873.45	2,746.14	1,891,510.68	2,748,580.72	36.19835692	-107.74694292
10,707.00	89.78	135.33	4,319.01	-3,940.74	2,811.78	1,891,443.39	2,748,646.35	36.19817191	-107.74672068
10,801.00	89.95	134.59	4,319.23	-4,007.16	2,878.29	1,891,376.97	2,748,712.87	36.19798928	-107.74649544
10,896.00	90.91	134.85	4,318.52	-4,074.00	2,945.79	1,891,310.13	2,748,780.37	36.19780549	-107.74626687
10,990.00	91.18	134.63	4,316.80	-4,140.16	3,012.55	1,891,243.97	2,748,847.13	36.19762359	-107.74604081
11,084.00	91.43	134.37	4,314.66	-4,206.03	3,079.58	1,891,178.11	2,748,914.15	36.19744248	-107.74581384
11,178.00	91.81	133.92	4,312.00	-4,271.47	3,147.00	1,891,112.66	2,748,981.58	36.19726253	-107.74558552
11,272.00	90.13	136.60	4,310.41	-4,338.22	3,213.15	1,891,045.91	2,749,047.73	36.19707900	-107.74536153
11,366.00	90.25	136.65	4,310.10	-4,406.55	3,277.70	1,890,977.59	2,749,112.28	36.19689114	-107.74514294
11,461.00	90.54	136.70	4,309.45	-4,475.65	3,342.89	1,890,908.48	2,749,177.46	36.19670113	-107.74492224
11,555.00	90.62	135.84	4,308.49	-4,543.57	3,407.86	1,890,840.56	2,749,242.44	36.19651438	-107.74470224
11,649.00	90.44	135.32	4,307.62	-4,610.71	3,473.65	1,890,773.42	2,749,308.23	36.19632979	-107.74447947
11,743.00	90.70	134.91	4,306.69	-4,677.31	3,539.98	1,890,706.83	2,749,374.56	36.19614667	-107.74425487
11,837.00	90.82	134.69	4,305.44	-4,743.54	3,606.67	1,890,640.60	2,749,441.25	36.19596456	-107.74402904
11,931.00	91.38	134.74	4,303.64	-4,809.66	3,673.46	1,890,574.47	2,749,508.04	36.19578275	-107.74380290
12,025.00	90.15	135.57	4,302.38	-4,876.30	3,739.74	1,890,507.83	2,749,574.32	36.19559951	-107.74357847
12,120.00	90.37	135.35	4,301.95	-4,944.01	3,806.37	1,890,440.12	2,749,640.95	36.19541333	-107.74335285
12,213.00	90.74	135.41	4,301.05	-5,010.20	3,871.69	1,890,373.93	2,749,706.27	36.19523133	-107.74313168
12,308.00	90.77	134.72	4,299.80	-5,077.45	3,938.78	1,890,306.68	2,749,773.36	36.19504643	-107.74290450



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 053H
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. 053H	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
12,402.00	91.31	134.12	4,298.09	-5,143.23	4,005.91	1,890,240.90	2,749,840.49	36.19486555	-107.74267721
12,496.00	91.17	135.16	4,296.06	-5,209.26	4,072.78	1,890,174.87	2,749,907.35	36.19468398	-107.74245079
12,590.00	91.78	135.00	4,293.64	-5,275.80	4,139.13	1,890,108.33	2,749,973.71	36.19450102	-107.74222613
12,685.00	90.62	137.27	4,291.65	-5,344.27	4,204.94	1,890,039.86	2,750,039.52	36.19431275	-107.74200330
12,779.00	90.86	137.74	4,290.44	-5,413.58	4,268.44	1,889,970.56	2,750,103.01	36.19412220	-107.74178833
12,873.00	91.33	137.23	4,288.64	-5,482.85	4,331.95	1,889,901.28	2,750,166.52	36.19393174	-107.74157331
12,967.00	91.88	137.34	4,286.01	-5,551.89	4,395.69	1,889,832.25	2,750,230.26	36.19374192	-107.74135751
13,061.00	89.87	136.14	4,284.57	-5,620.33	4,460.09	1,889,763.80	2,750,294.67	36.19355373	-107.74113945
13,155.00	89.72	135.24	4,284.91	-5,687.59	4,525.76	1,889,696.54	2,750,360.33	36.19336878	-107.74091713
13,250.00	90.20	135.85	4,284.97	-5,755.40	4,592.29	1,889,628.73	2,750,426.86	36.19318233	-107.74069186
13,344.00	89.11	135.57	4,285.54	-5,822.69	4,657.93	1,889,561.45	2,750,492.50	36.19299732	-107.74046963
13,438.00	89.72	135.34	4,286.50	-5,889.68	4,723.86	1,889,494.46	2,750,558.43	36.19281312	-107.74024639
13,532.00	91.13	135.63	4,285.80	-5,956.70	4,789.76	1,889,427.43	2,750,624.33	36.19262882	-107.74002328
13,627.00	89.27	134.38	4,285.47	-6,023.88	4,856.92	1,889,360.26	2,750,691.50	36.19244410	-107.73979587
13,722.00	89.76	134.01	4,286.27	-6,090.10	4,925.03	1,889,294.03	2,750,759.61	36.19226200	-107.73956526
13,816.00	90.54	133.91	4,286.03	-6,155.35	4,992.70	1,889,228.78	2,750,827.27	36.19208257	-107.73933616
13,910.00	91.15	133.72	4,284.64	-6,220.42	5,060.52	1,889,163.71	2,750,895.09	36.19190363	-107.73910653
14,004.00	91.36	132.86	4,282.58	-6,284.86	5,128.92	1,889,099.27	2,750,963.50	36.19172643	-107.73887492
14,099.00	92.10	132.35	4,279.72	-6,349.14	5,198.81	1,889,034.99	2,751,033.39	36.19154966	-107.73863827
14,193.00	92.87	132.02	4,275.64	-6,412.21	5,268.40	1,888,971.93	2,751,102.97	36.19137623	-107.73840265
14,211.70	92.90	131.91	4,274.70	-6,424.69	5,282.29	1,888,959.44	2,751,116.86	36.19134189	-107.73835563
LTP @ 14211.70 MD 4274.70 TVD									
14,223.00	92.91	131.85	4,274.13	-6,432.23	5,290.69	1,888,951.91	2,751,125.26	36.19132117	-107.73832718
330 pd @ 14223.00 MD 4274.13 TVD									
14,288.00	93.00	131.48	4,270.78	-6,475.38	5,339.18	1,888,908.75	2,751,173.75	36.19120249	-107.73816298
Survey @ 14288.00 MD 4270.78 TVD									
14,381.00	93.00	131.48	4,265.91	-6,536.90	5,408.76	1,888,847.24	2,751,243.33	36.19103332	-107.73792738
Survey proj. to 14381.00 MD 4265.91 TVD 141 FSL 1894 FEL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
426.00	425.99	-0.06	-1.82	MWD surveys
2,950.20	2,670.58	386.92	-1,014.01	9 5/8" Casing shoe @ 2950.20 MD 2670.58 TVD
4,900.81	4,304.70	204.81	-1,246.31	FTP @ 4900.81 MD 4304.70 TVD
14,211.70	4,274.70	-6,424.69	5,282.29	LTP @ 14211.70 MD 4274.70 TVD
14,223.00	4,274.13	-6,432.23	5,290.69	330 pd @ 14223.00 MD 4274.13 TVD
14,288.00	4,270.78	-6,475.38	5,339.18	Survey @ 14288.00 MD 4270.78 TVD
14,381.00	4,265.91	-6,536.90	5,408.76	Survey proj. to 14381.00 MD 4265.91 TVD 141 FSL 1894 FEL

WELL NAME: GREATER LYBROOK UNIT 053H

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

API Number: 30-045-38307

AFE Number: DV03077

ER Well Number: NM08272.01

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 1,397 ft FSL 2,058 ft FEL

BH Location: 25-23N-09W Sec-Twn- Rng 232 ft FSL 2013 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)	2,942 ft
KOP (MD)	3,920 ft
KOP (TVD)	3,523 ft
Target (TVD)	4,276 ft
Curve BUR	10 °/100 ft
POE (MD)	4,813 ft
TD (MD)	14,381 ft
Lat Len (ft)	9,485 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	2,942	9.625	36.0	J-55	LTC	0	2,942
Production	8.500	14,307	5.500	17.0	P-110	LTC	0	14,307

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	576
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,651	137
Prod. (Lead)	Type III	12.4	2.260	13.3	0.2691	65%	0	580
Prod. (Tail)	G:POZ blend	13.3	1.570	7.71	0.13052916	10%	4,450	1,589

COMPLETION / PRODUCTION SUMMARY:

Frac: 38 plug-and-perf stages with 150,000 bbls slickwater fluid and 11,900,000 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	721
Pictured Cliffs	1,100	1,120
Lewis	1,222	1,257
Chacra	1,491	1,568
Cliff House	2,548	2,792
Menefee	2,573	2,821
Point Lookout	3,530	3,928
Mancos	3,675	4,085
Gallup (MNCS_A)	4,035	4,450
MNCS_B	4,146	4,593
MNCS_C	4,236	4,739
MNCS_Cms	4,276	4,813
FTP TARGET	4,276	4,813
PROJECTED TD	4,352	14,298

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 318652

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 318652
	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 318652

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 318652
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	6/20/2024