

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 30-045-38309	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number 055H

II. ¹⁰ Surface Location

Ul or lot no. J	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 1376'	North/South Line SOUTH	Feet from the 2024'	East/West line EAST	County SAN JUAN
--------------------	---------------	-----------------	-------------	---------	------------------------	---------------------------	------------------------	------------------------	--------------------

¹¹ Bottom Hole Location

UL or lot no. P	Section 25	Township 23N	Range 9W	Lot Idn	Feet from the 161'	North/South line SOUTH	Feet from the 238'	East/West line EAST	County SAN JUAN
¹² Lse Code N	¹³ Producing Method Code		¹⁴ Gas Connection Date 03/20/24		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 8/29/2023	²² Ready Date 3/20/24	²³ TD 14,992' MD 4,292' TVD	²⁴ PBDT 14,912' MD 4,292' TVD	²⁵ Perforations ~ 4,793' – 14,832' MD ~ 4,333' -4,295' TVD AlphaSleeve 14,862'	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		375' MD		352 sx
12.25"		9.625",36#, J-55		2,815' MD		684 sx
8.5"		5.5",17#, P-110		14,962' MD		2,277 sx

V. Well Test Data

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

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION Approved by: PATRICIA MARTINEZ	
Printed name: Heather Huntington		Title: PETROLEUM SPECIALIST	
Title: Permitting Technician		Approval Date: 3/11/2024	
E-mail Address:hhuntington@enduringresources.com			
Date: 2/27/24	Phone:505-636-9751	RT EXPIRES 6/20/2024	



ENDURING RESOURCES IV LLC

February 27, 2024

Re: GREATER LYBROOK UNIT 055H-30-045-38309

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

Sincerely,

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

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

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

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

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

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38309		² Pool Code 98157	³ Pool Name LYBROOK MANCOS W	
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT			⁶ Well Number 055H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6802 '

¹⁰ Surface Location

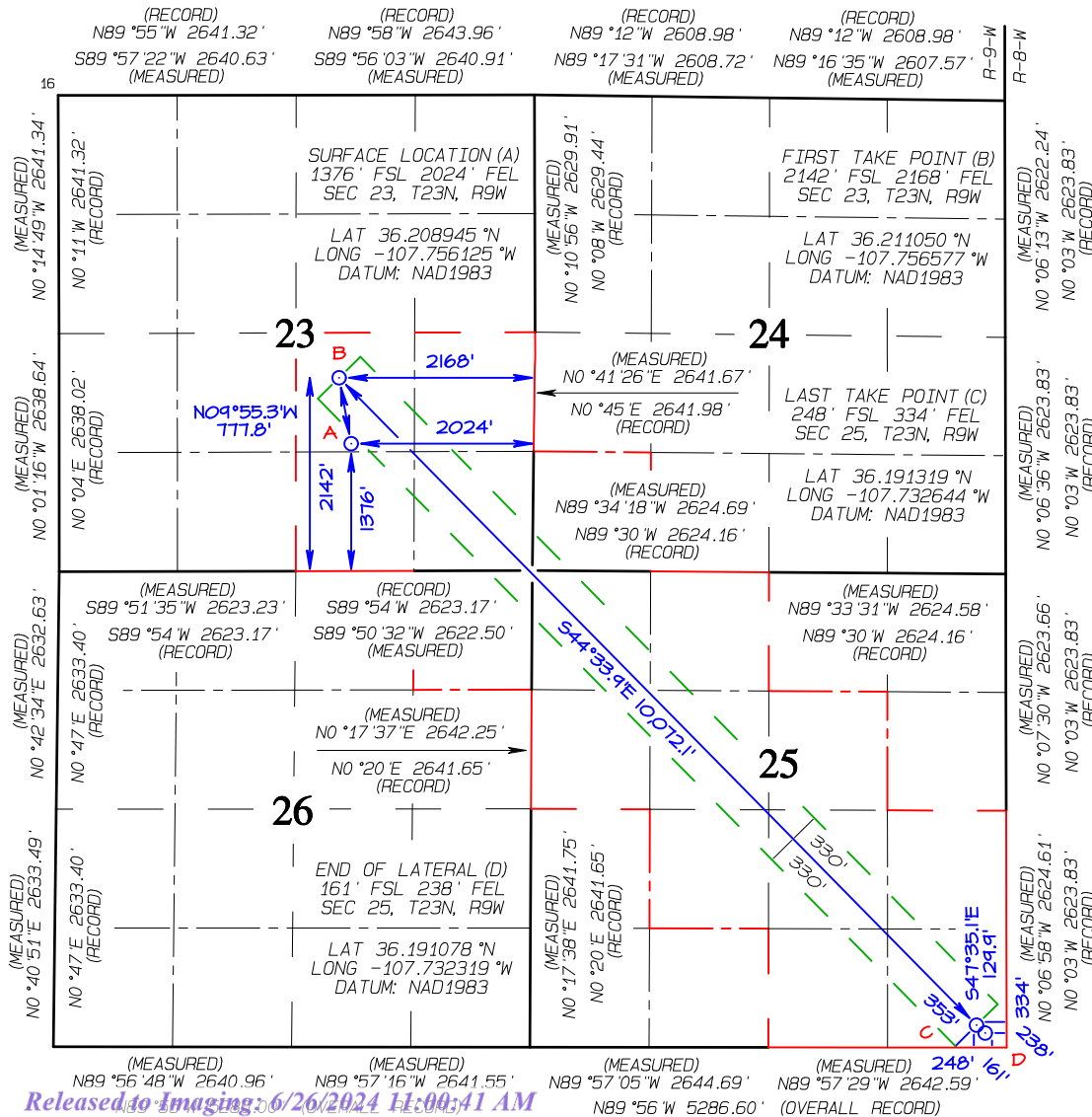
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	23N	9W		1376	SOUTH	2024	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	23N	9W		161	SOUTH	238	EAST	SAN JUAN

12 Dedicated Acres 640.0 SE/4 - Section 23 SW/4 - Section 24 NW/4, SE/4, SW/4 NE/4 NE/4 SW/4 - Section 25 NE/4 NE/4 - Section 26	13 Joint or Infill	14 Consolidation Code	15 Order No. R-22081
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

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

Heater Heater 2/27/24

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

Heather Huntington

Printed Name
 Student ID Number

18 SURVEYOR CERTIFICATION

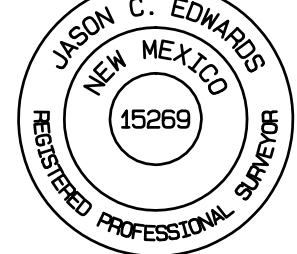
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: FEBRUARY 22, 2024

Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor

25



JASON C. EDWARDS

Certificate Number	15269
--------------------	-------

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

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

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

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38309	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 055H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6802'

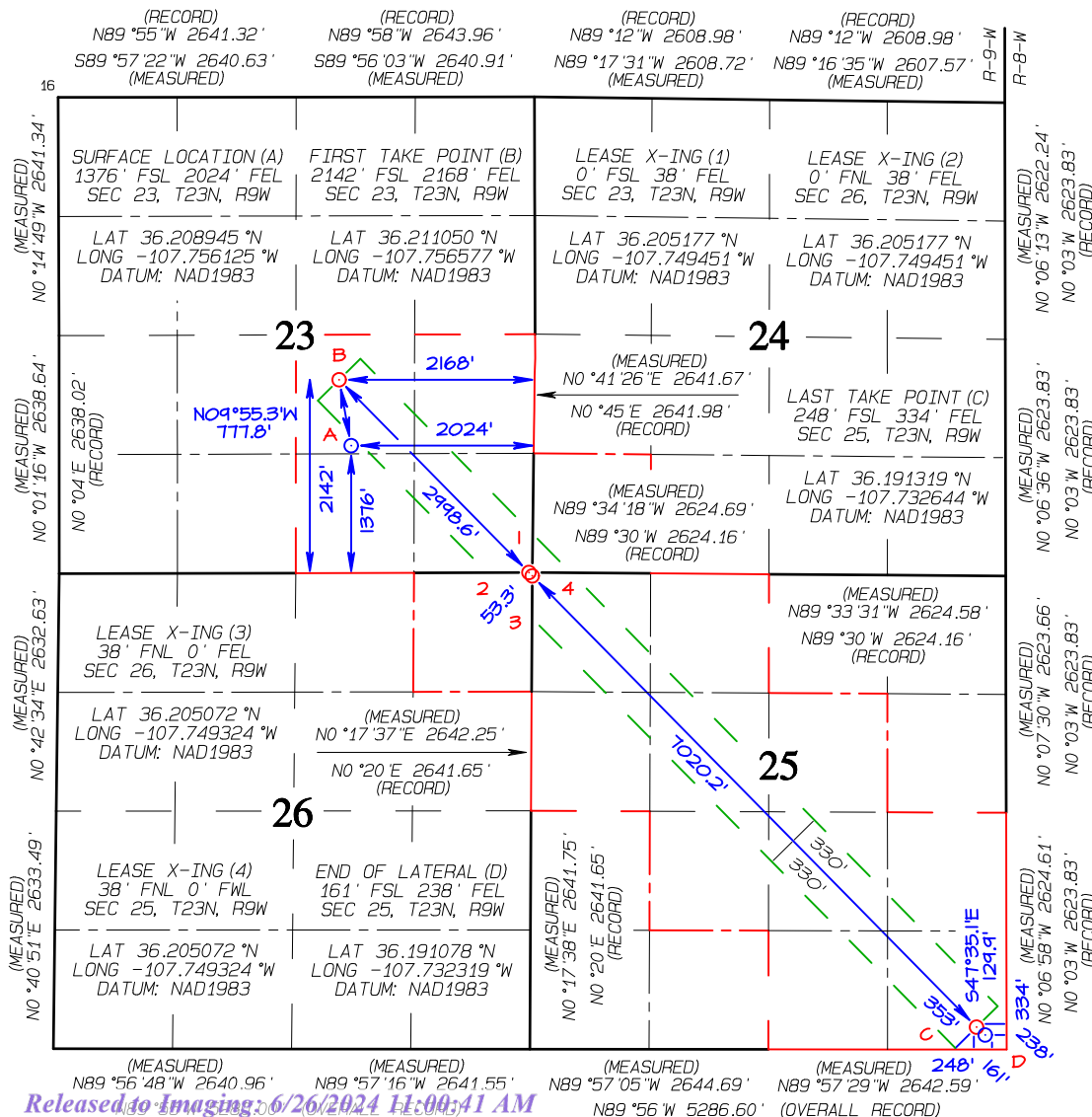
¹⁰ Surface Location

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		1376	SOUTH	2024	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	23N	9W		161	SOUTH	238	EAST	SAN JUAN

¹² Dedicated Acres 640.0	SE/4 - Section 23 SW/4 SW/4 - Section 24 NW/4, SE/4, SW/4 NE/4 NE/4 SW/4 - Section 25 NE/4 NE/4 - Section 26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-22081
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION				



¹⁷ OPERATOR CERTIFICATION

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

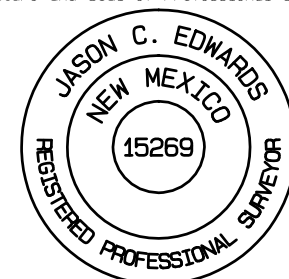
Signature Heather Huntington Date 2/27/24
Printed Name Heather Huntington
E-mail Address hhuntington@enduringresources.com

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 22, 2024
Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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

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

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

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38309	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 055H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6802'

¹⁰ Surface Location

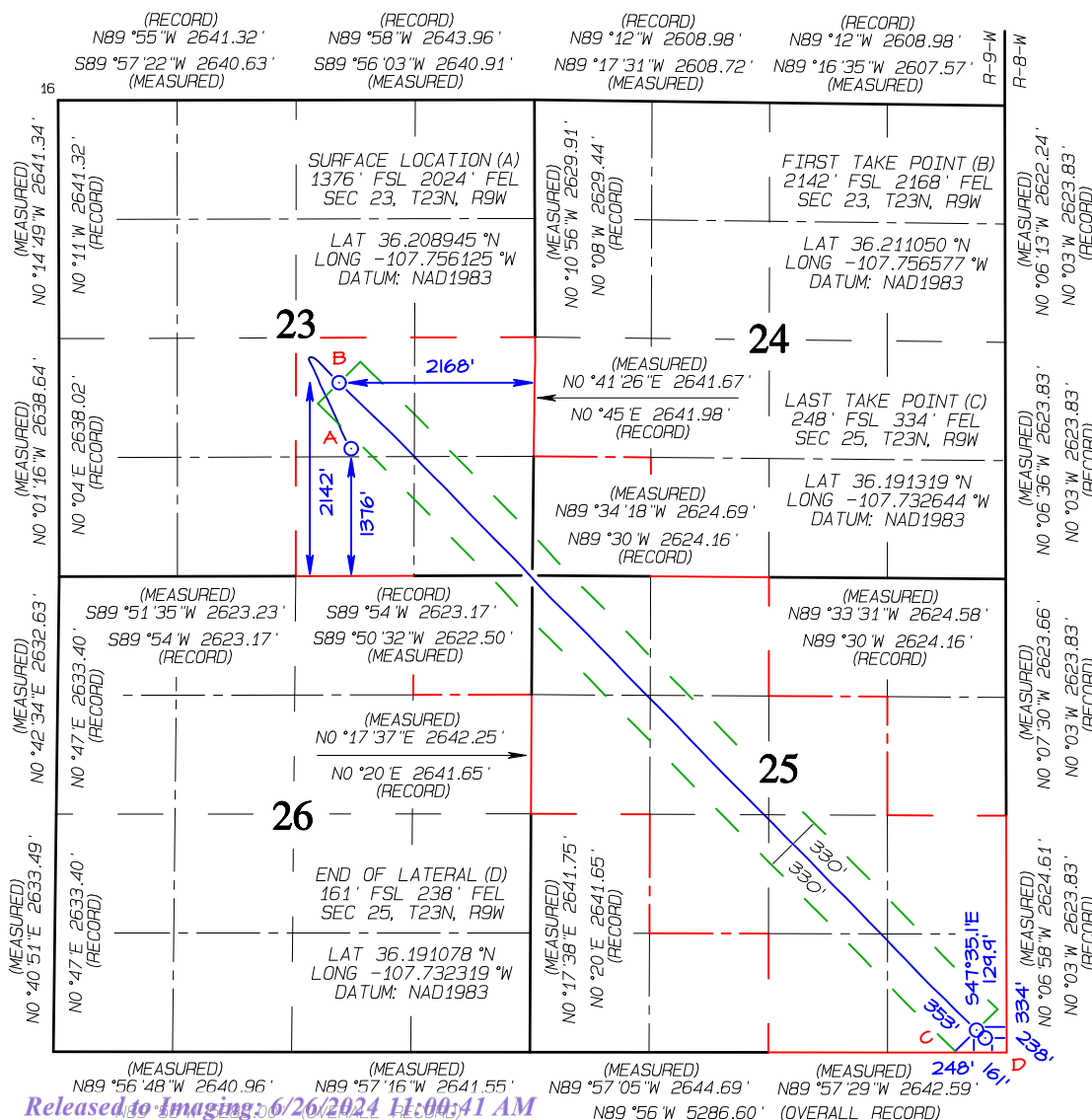
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	23N	9W		1376	SOUTH	2024	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	23N	9W		161	SOUTH	238	EAST	SAN JUAN

¹² Dedicated Acres 640.0	SE/4 - Section 23 SW/4 SW/4 - Section 24 NW/4, SE/4, SW/4 NE/4 NE/4 SW/4 - Section 25 NE/4 NE/4 - Section 26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-22081
---	--	-------------------------------	----------------------------------	---

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

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

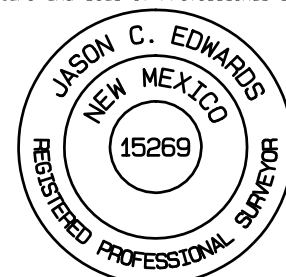
Signature: Heather Huntington Date: 2/27/24
Printed Name: Heather Huntington
E-mail Address: hhuntington@enduringresources.com

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 22, 2024
Survey Date: SEPTEMBER 29, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Well: Greater Lybrook Unit No. 055H
Site: Greater Lybrook 57 Pad (53,54,55,56 & 57)
Project: San Juan County, New Mexico NAD83 NM W
Design: MWD surveys
Rig: Aztec 1000

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

Surface location:
 Northing: 1895362.67 Easting: 2745868.52 Latitude: 36.20894500 Longitude: -107.75612500

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



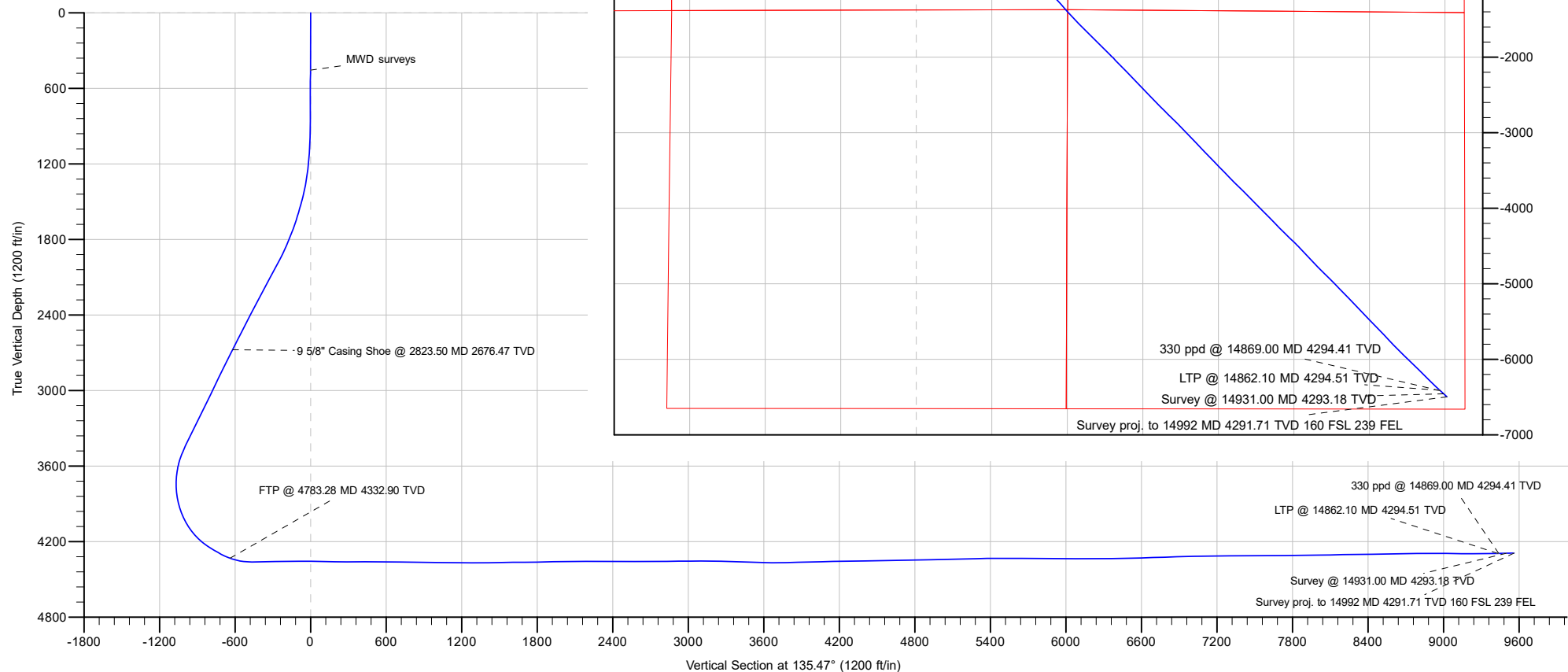
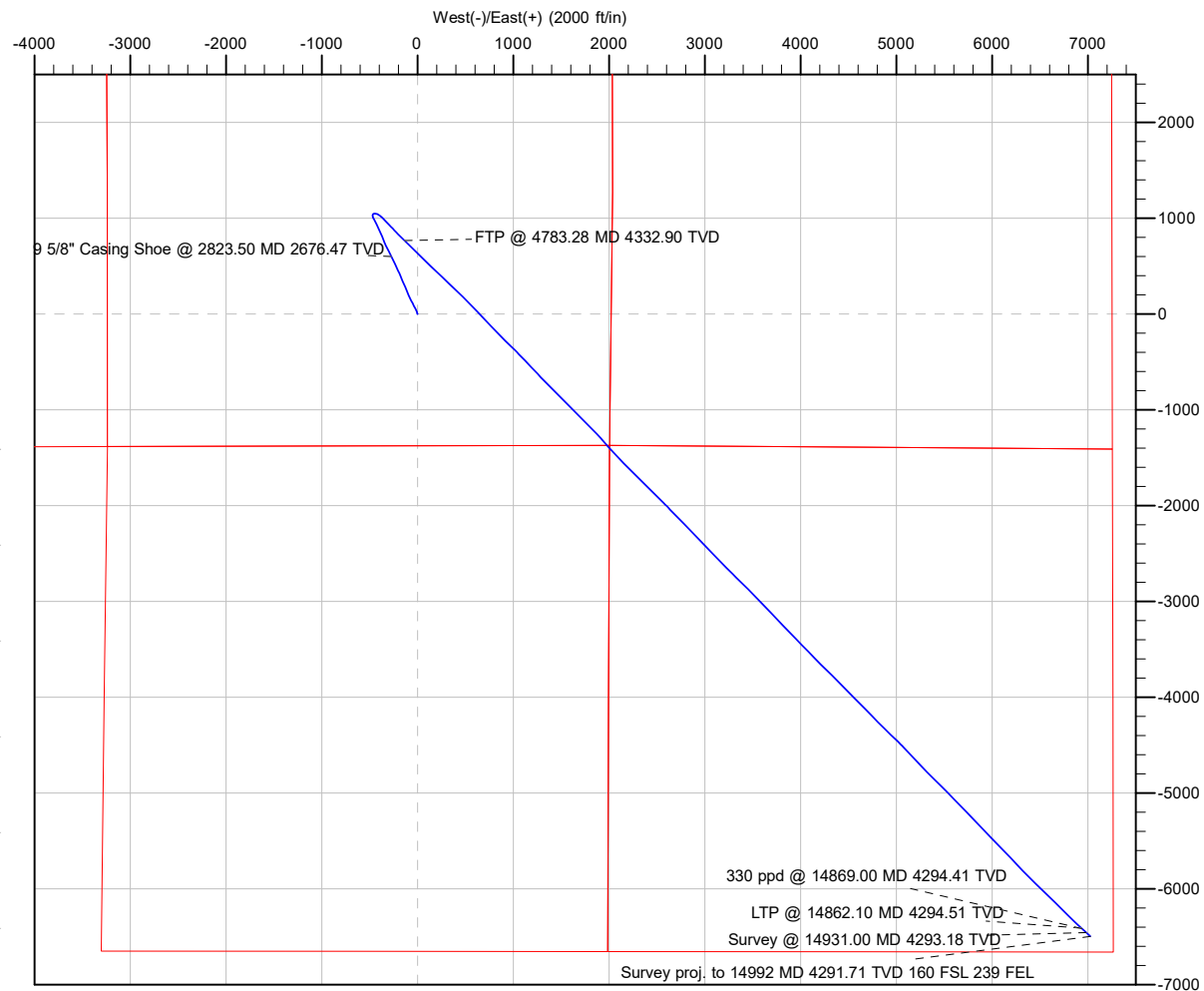
Azimuths to Grid North
 True North: -0.05°
 Magnetic North: 8.48°

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



ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
455.00	0.34	0.16	455.00	1.33	0.00	-0.94	MWD surveys
2823.50	28.01	333.12	2676.47	601.32	-272.01	-619.43	9 5/8" Casing Shoe @ 2823.50 MD 2676.47 TVD
4783.28	70.22	133.58	4332.90	766.21	-134.02	-640.21	FTP @ 4783.28 MD 4332.90 TVD
14862.10	90.84	132.71	4294.51	-6409.76	6933.71	9431.90	LTP @ 14862.10 MD 4294.51 TVD
14869.00	90.89	132.67	4294.41	-6414.43	6938.78	9438.79	330 ppd @ 14869.00 MD 4294.41 TVD
14931.00	91.38	132.31	4293.18	-6456.30	6984.49	9500.69	Survey @ 14931.00 MD 4293.18 TVD
14992.00	91.38	132.31	4291.71	-6497.35	7029.58	9561.58	Survey proj. to 14992 MD 4291.71 TVD 160 FSL 239 FEL





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

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. 055H, Surf loc: 1376 FSL 2024 FEL Section 23-T23N-R09W						
Well Position		+N/-S	0.00 ft	Northing:		1,895,362.67 usft		Latitude:		36.20894500			
		+E/-W	0.00 ft			Easting:				2,745,868.53 usft		Longitude:	
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	49,032.34354952

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	2/4/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,772.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,852.00	14,931.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,992.00	14,992.00	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	0.34	0.16	455.00	1.33	0.00	-0.94	0.08	0.08	0.00	
MWD surveys										
484.00	0.36	0.68	484.00	1.50	0.01	-1.07	0.07	0.07	1.79	
543.00	0.29	344.92	543.00	1.83	-0.03	-1.33	0.19	-0.12	-26.71	
603.00	0.35	1.83	602.99	2.16	-0.07	-1.59	0.19	0.10	28.18	
663.00	0.48	338.83	662.99	2.58	-0.15	-1.94	0.35	0.22	-38.33	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

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)
724.00	0.33	341.55	723.99	2.99	-0.30	-2.34	0.25	-0.25	4.46
784.00	0.34	324.44	783.99	3.29	-0.46	-2.67	0.17	0.02	-28.52
844.00	0.42	335.02	843.99	3.64	-0.65	-3.05	0.18	0.13	17.63
903.00	0.33	354.00	902.99	4.00	-0.76	-3.39	0.26	-0.15	32.17
963.00	0.40	347.91	962.99	4.38	-0.82	-3.70	0.13	0.12	-10.15
1,028.00	1.96	350.95	1,027.97	5.70	-1.05	-4.80	2.40	2.40	4.68
1,091.00	3.65	345.71	1,090.89	8.71	-1.71	-7.41	2.71	2.68	-8.32
1,155.00	5.54	344.62	1,154.69	13.66	-3.03	-11.86	2.96	2.95	-1.70
1,218.00	7.49	340.64	1,217.28	20.47	-5.20	-18.24	3.18	3.10	-6.32
1,281.00	9.35	339.18	1,279.59	29.12	-8.38	-26.64	2.97	2.95	-2.32
1,344.00	10.78	335.14	1,341.62	39.25	-12.68	-36.87	2.53	2.27	-6.41
1,407.00	12.48	332.12	1,403.33	50.62	-18.34	-48.95	2.87	2.70	-4.79
1,470.00	14.11	331.83	1,464.64	63.41	-25.15	-62.84	2.59	2.59	-0.46
1,533.00	15.64	332.45	1,525.52	77.71	-32.70	-78.33	2.44	2.43	0.98
1,597.00	17.15	332.49	1,586.92	93.72	-41.05	-95.60	2.36	2.36	0.06
1,659.00	18.82	332.80	1,645.89	110.73	-49.84	-113.89	2.70	2.69	0.50
1,722.00	20.67	333.12	1,705.18	129.69	-59.52	-134.19	2.94	2.94	0.51
1,786.00	22.34	333.67	1,764.73	150.66	-70.02	-156.51	2.63	2.61	0.86
1,849.00	24.07	333.60	1,822.63	172.90	-81.04	-180.09	2.75	2.75	-0.11
1,912.00	25.98	335.59	1,879.71	196.98	-92.46	-205.26	3.31	3.03	3.16
1,975.00	28.21	337.28	1,935.79	223.28	-103.91	-232.05	3.74	3.54	2.68
2,038.00	30.02	337.53	1,990.83	251.58	-115.69	-260.48	2.88	2.87	0.40
2,101.00	30.38	337.75	2,045.28	280.89	-127.75	-289.83	0.60	0.57	0.35
2,164.00	29.99	337.03	2,099.74	310.13	-139.92	-319.21	0.84	-0.62	-1.14
2,227.00	29.31	336.43	2,154.49	338.76	-152.23	-348.26	1.18	-1.08	-0.95
2,290.00	30.06	337.06	2,209.22	367.43	-164.55	-377.33	1.29	1.19	1.00
2,353.00	30.21	336.17	2,263.71	396.46	-177.10	-406.83	0.75	0.24	-1.41
2,416.00	29.19	335.64	2,318.43	424.95	-189.84	-436.08	1.67	-1.62	-0.84
2,479.00	28.85	334.92	2,373.52	452.71	-202.62	-464.83	0.77	-0.54	-1.14
2,542.00	28.26	335.49	2,428.86	480.05	-215.25	-493.17	1.03	-0.94	0.90
2,605.00	28.58	335.69	2,484.26	507.35	-227.64	-521.33	0.53	0.51	0.32
2,669.00	28.63	335.06	2,540.45	535.21	-240.41	-550.14	0.48	0.08	-0.98
2,732.00	28.29	334.52	2,595.84	562.37	-253.20	-578.47	0.68	-0.54	-0.86
2,772.00	28.30	334.70	2,631.06	579.50	-261.33	-596.38	0.21	0.03	0.45
2,823.50	28.01	333.12	2,676.47	601.32	-272.01	-619.43	1.55	-0.56	-3.06
9 5/8" Casing Shoe @ 2823.50 MD 2676.47 TVD									
2,852.00	27.86	332.24	2,701.64	613.19	-278.14	-632.19	1.55	-0.53	-3.10
2,884.00	27.58	331.96	2,729.97	626.34	-285.10	-646.45	0.97	-0.88	-0.88
2,978.00	27.75	334.14	2,813.23	665.24	-304.88	-688.05	1.09	0.18	2.32
3,072.00	27.38	333.19	2,896.56	704.23	-324.17	-729.37	0.61	-0.39	-1.01
3,166.00	27.72	338.16	2,979.91	743.82	-342.06	-770.13	2.47	0.36	5.29
3,261.00	27.56	337.92	3,064.07	784.69	-358.54	-810.83	0.21	-0.17	-0.25
3,355.00	26.64	336.97	3,147.75	824.24	-374.96	-850.54	1.08	-0.98	-1.01
3,450.00	28.60	335.62	3,231.92	864.55	-392.68	-891.70	2.17	2.06	-1.42



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

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)	
3,544.00	28.14	334.28	3,314.63	905.01	-411.58	-933.81	0.84	-0.49	-1.43	
3,639.00	26.50	335.16	3,399.03	944.43	-430.21	-974.97	1.78	-1.73	0.93	
3,702.00	25.00	331.50	3,455.78	968.89	-442.47	-1,001.00	3.47	-2.38	-5.81	
3,733.00	24.61	330.60	3,483.92	980.27	-448.76	-1,013.53	1.75	-1.26	-2.90	
3,765.00	22.11	331.25	3,513.29	991.36	-454.93	-1,025.76	7.85	-7.81	2.03	
3,796.00	19.39	333.71	3,542.28	1,001.09	-460.02	-1,036.26	9.21	-8.77	7.94	
3,827.00	16.52	336.47	3,571.77	1,009.75	-464.06	-1,045.27	9.65	-9.26	8.90	
3,859.00	13.77	344.60	3,602.66	1,017.59	-466.89	-1,052.84	10.84	-8.59	25.41	
3,890.00	12.01	354.08	3,632.88	1,024.36	-468.20	-1,058.59	8.86	-5.68	30.58	
3,921.00	10.94	3.67	3,663.26	1,030.50	-468.34	-1,063.07	7.04	-3.45	30.94	
3,953.00	8.99	18.23	3,694.78	1,035.91	-467.37	-1,066.24	9.91	-6.09	45.50	
3,984.00	8.96	39.03	3,725.41	1,040.08	-465.09	-1,067.62	10.41	-0.10	67.10	
4,016.00	9.50	53.78	3,757.00	1,043.58	-461.39	-1,067.52	7.56	1.69	46.09	
4,047.00	9.91	65.00	3,787.56	1,046.22	-456.91	-1,066.25	6.23	1.32	36.19	
4,079.00	11.19	79.01	3,819.02	1,047.98	-451.36	-1,063.62	8.93	4.00	43.78	
4,110.00	12.92	90.84	3,849.34	1,048.50	-444.94	-1,059.49	9.70	5.58	38.16	
4,141.00	15.00	101.66	3,879.43	1,047.64	-437.55	-1,053.69	10.74	6.71	34.90	
4,172.00	17.12	106.60	3,909.22	1,045.52	-429.24	-1,046.36	8.13	6.84	15.94	
4,204.00	19.50	112.01	3,939.60	1,042.17	-419.78	-1,037.33	9.13	7.44	16.91	
4,235.00	22.26	118.73	3,968.56	1,037.41	-409.83	-1,026.96	11.78	8.90	21.68	
4,267.00	24.04	124.97	3,997.99	1,030.76	-399.17	-1,014.74	9.46	5.56	19.50	
4,298.00	26.53	128.42	4,026.02	1,022.84	-388.57	-1,001.66	9.33	8.03	11.13	
4,330.00	29.34	131.39	4,054.29	1,013.21	-377.08	-986.74	9.80	8.78	9.28	
4,361.00	32.42	133.49	4,080.89	1,002.47	-365.35	-970.86	10.52	9.94	6.77	
4,393.00	36.29	134.48	4,107.31	989.92	-352.37	-952.81	12.22	12.09	3.09	
4,424.00	39.97	135.78	4,131.69	976.35	-338.87	-933.67	12.15	11.87	4.19	
4,455.00	43.42	136.49	4,154.83	961.49	-324.59	-913.06	11.23	11.13	2.29	
4,487.00	46.31	136.65	4,177.51	945.10	-309.07	-890.49	9.04	9.03	0.50	
4,518.00	49.40	136.34	4,198.31	928.43	-293.25	-867.51	10.00	9.97	-1.00	
4,550.00	52.54	136.03	4,218.46	910.49	-276.04	-842.66	9.84	9.81	-0.97	
4,581.00	55.64	136.45	4,236.64	892.36	-258.68	-817.56	10.06	10.00	1.35	
4,613.00	58.19	136.52	4,254.10	872.92	-240.22	-790.75	7.97	7.97	0.22	
4,644.00	59.69	136.55	4,270.10	853.64	-221.95	-764.20	4.84	4.84	0.10	
4,676.00	59.64	136.23	4,286.26	833.65	-202.90	-736.59	0.88	-0.16	-1.00	
4,707.00	60.93	135.14	4,301.63	814.39	-184.09	-709.66	5.16	4.16	-3.52	
4,739.00	65.25	133.71	4,316.11	794.42	-163.72	-681.14	14.08	13.50	-4.47	
4,770.00	68.67	133.39	4,328.24	774.77	-143.04	-652.64	11.07	11.03	-1.03	
4,783.28	70.22	133.58	4,332.90	766.21	-134.02	-640.21	11.76	11.69	1.43	
FTP @ 4783.28 MD 4332.90 TVD										
4,802.00	72.41	133.84	4,338.90	753.96	-121.20	-622.48	11.76	11.69	1.39	
4,833.00	75.82	135.02	4,347.38	733.09	-99.92	-592.68	11.59	11.00	3.81	
4,865.00	79.54	135.41	4,354.21	710.90	-77.90	-561.42	11.69	11.63	1.22	
4,896.00	83.40	135.18	4,358.80	689.12	-56.34	-530.77	12.47	12.45	-0.74	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

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)
4,959.00	90.39	134.13	4,362.21	644.93	-11.61	-467.91	11.22	11.10	-1.67
5,053.00	91.48	133.61	4,360.68	579.80	56.14	-373.96	1.28	1.16	-0.55
5,148.00	90.62	134.46	4,358.94	513.78	124.43	-279.01	1.27	-0.91	0.89
5,242.00	90.53	133.88	4,358.00	448.28	191.85	-185.04	0.62	-0.10	-0.62
5,337.00	91.19	132.83	4,356.57	383.07	260.91	-90.11	1.31	0.69	-1.11
5,431.00	88.61	134.03	4,356.73	318.46	329.17	3.82	3.03	-2.74	1.28
5,526.00	89.06	133.53	4,358.67	252.74	397.74	98.76	0.71	0.47	-0.53
5,620.00	89.04	134.92	4,360.22	187.19	465.09	192.72	1.48	-0.02	1.48
5,715.00	89.51	135.31	4,361.43	119.89	532.13	287.71	0.64	0.49	0.41
5,810.00	90.04	135.52	4,361.80	52.23	598.82	382.71	0.60	0.56	0.22
5,904.00	90.14	136.28	4,361.65	-15.28	664.23	476.70	0.82	0.11	0.81
5,999.00	89.83	137.44	4,361.68	-84.60	729.19	571.67	1.26	-0.33	1.22
6,093.00	89.54	136.07	4,362.19	-153.07	793.59	665.65	1.49	-0.31	-1.46
6,187.00	89.32	135.06	4,363.13	-220.18	859.39	759.64	1.10	-0.23	-1.07
6,281.00	89.21	135.07	4,364.33	-286.72	925.78	853.63	0.12	-0.12	0.01
6,376.00	89.32	133.83	4,365.55	-353.24	993.59	948.61	1.31	0.12	-1.31
6,470.00	89.11	136.40	4,366.84	-419.83	1,059.91	1,042.59	2.74	-0.22	2.73
6,564.00	89.25	136.46	4,368.19	-487.93	1,124.69	1,136.56	0.16	0.15	0.06
6,658.00	88.74	136.04	4,369.83	-555.82	1,189.69	1,230.54	0.70	-0.54	-0.45
6,752.00	90.76	136.93	4,370.24	-623.98	1,254.40	1,324.52	2.35	2.15	0.95
6,846.00	91.16	135.74	4,368.67	-691.97	1,319.30	1,418.49	1.34	0.43	-1.27
6,941.00	91.84	134.78	4,366.18	-759.43	1,386.14	1,513.46	1.24	0.72	-1.01
7,035.00	89.67	135.73	4,364.94	-826.18	1,452.30	1,607.44	2.52	-2.31	1.01
7,129.00	90.16	135.59	4,365.08	-893.41	1,518.00	1,701.44	0.54	0.52	-0.15
7,224.00	90.97	135.40	4,364.15	-961.16	1,584.59	1,796.44	0.88	0.85	-0.20
7,318.00	91.27	135.10	4,362.31	-1,027.90	1,650.75	1,890.42	0.45	0.32	-0.32
7,412.00	91.86	133.74	4,359.74	-1,093.67	1,717.86	1,984.36	1.58	0.63	-1.45
7,507.00	90.57	136.26	4,357.73	-1,160.82	1,785.02	2,079.33	2.98	-1.36	2.65
7,601.00	90.84	135.72	4,356.57	-1,228.42	1,850.32	2,173.32	0.64	0.29	-0.57
7,695.00	89.04	137.85	4,356.67	-1,296.92	1,914.68	2,267.28	2.97	-1.91	2.27
7,789.00	89.30	138.48	4,358.03	-1,366.95	1,977.37	2,361.17	0.72	0.28	0.67
7,883.00	89.55	137.83	4,358.97	-1,436.97	2,040.08	2,455.06	0.74	0.27	-0.69
7,977.00	89.86	136.94	4,359.46	-1,506.15	2,103.72	2,549.01	1.00	0.33	-0.95
8,072.00	89.99	135.78	4,359.58	-1,574.89	2,169.28	2,643.99	1.23	0.14	-1.22
8,166.00	90.71	134.98	4,359.01	-1,641.80	2,235.30	2,737.99	1.14	0.77	-0.85
8,260.00	91.03	134.15	4,357.58	-1,707.75	2,302.26	2,831.97	0.95	0.34	-0.88
8,354.00	91.31	133.81	4,355.66	-1,773.01	2,369.89	2,925.92	0.47	0.30	-0.36
8,449.00	89.35	135.35	4,355.11	-1,839.69	2,437.55	3,020.89	2.62	-2.06	1.62
8,543.00	89.85	135.02	4,355.77	-1,906.37	2,503.80	3,114.89	0.64	0.53	-0.35
8,637.00	90.02	134.24	4,355.88	-1,972.41	2,570.70	3,208.88	0.85	0.18	-0.83
8,732.00	88.06	136.61	4,357.47	-2,040.06	2,637.35	3,303.86	3.24	-2.06	2.49
8,826.00	88.05	136.03	4,360.66	-2,108.00	2,702.24	3,397.79	0.62	-0.01	-0.62
8,920.00	88.21	135.34	4,363.73	-2,175.22	2,767.87	3,491.74	0.75	0.17	-0.73



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

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)	
9,014.00	88.20	134.63	4,366.67	-2,241.64	2,834.32	3,585.69	0.76	-0.01	-0.76	
9,108.00	90.08	137.24	4,368.08	-2,309.17	2,899.68	3,679.66	3.42	2.00	2.78	
9,203.00	90.87	136.76	4,367.30	-2,378.64	2,964.47	3,774.62	0.97	0.83	-0.51	
9,297.00	91.30	136.04	4,365.52	-2,446.70	3,029.28	3,868.59	0.89	0.46	-0.77	
9,391.00	91.75	135.44	4,363.01	-2,514.00	3,094.86	3,962.56	0.80	0.48	-0.64	
9,485.00	92.31	134.84	4,359.68	-2,580.59	3,161.12	4,056.50	0.87	0.60	-0.64	
9,580.00	90.68	135.72	4,357.21	-2,648.06	3,227.94	4,151.46	1.95	-1.72	0.93	
9,674.00	91.10	135.46	4,355.75	-2,715.21	3,293.71	4,245.45	0.53	0.45	-0.28	
9,768.00	90.67	133.77	4,354.29	-2,781.21	3,360.62	4,339.42	1.85	-0.46	-1.80	
9,863.00	90.17	135.92	4,353.60	-2,848.20	3,427.97	4,434.41	2.32	-0.53	2.26	
9,957.00	90.92	135.29	4,352.70	-2,915.36	3,493.73	4,528.40	1.04	0.80	-0.67	
10,051.00	91.37	134.34	4,350.82	-2,981.60	3,560.39	4,622.38	1.12	0.48	-1.01	
10,145.00	90.70	137.29	4,349.13	-3,048.99	3,625.89	4,716.35	3.22	-0.71	3.14	
10,239.00	91.26	136.85	4,347.52	-3,117.81	3,689.91	4,810.30	0.76	0.60	-0.47	
10,333.00	91.81	136.36	4,345.00	-3,186.09	3,754.46	4,904.25	0.78	0.59	-0.52	
10,427.00	92.32	135.56	4,341.61	-3,253.61	3,819.76	4,998.18	1.01	0.54	-0.85	
10,521.00	90.52	135.79	4,339.28	-3,320.84	3,885.42	5,092.15	1.93	-1.91	0.24	
10,615.00	90.92	136.18	4,338.10	-3,388.43	3,950.73	5,186.14	0.59	0.43	0.41	
10,709.00	91.27	136.12	4,336.31	-3,456.21	4,015.84	5,280.11	0.38	0.37	-0.06	
10,803.00	91.66	135.33	4,333.90	-3,523.49	4,081.44	5,374.08	0.94	0.41	-0.84	
10,898.00	89.72	135.81	4,332.76	-3,591.32	4,147.94	5,469.07	2.10	-2.04	0.51	
10,992.00	89.45	135.12	4,333.44	-3,658.32	4,213.86	5,563.06	0.79	-0.29	-0.73	
11,086.00	89.60	134.47	4,334.22	-3,724.55	4,280.56	5,657.05	0.71	0.16	-0.69	
11,180.00	89.87	134.29	4,334.65	-3,790.29	4,347.75	5,751.04	0.35	0.29	-0.19	
11,274.00	89.49	136.44	4,335.18	-3,857.18	4,413.78	5,845.03	2.32	-0.40	2.29	
11,368.00	89.70	135.83	4,335.84	-3,924.95	4,478.92	5,939.02	0.69	0.22	-0.65	
11,463.00	89.95	134.40	4,336.13	-3,992.26	4,545.96	6,034.01	1.53	0.26	-1.51	
11,557.00	90.07	134.03	4,336.12	-4,057.81	4,613.33	6,127.99	0.41	0.13	-0.39	
11,651.00	90.38	136.59	4,335.75	-4,124.63	4,679.43	6,221.98	2.74	0.33	2.72	
11,745.00	90.39	136.02	4,335.12	-4,192.59	4,744.37	6,315.97	0.61	0.01	-0.61	
11,839.00	90.82	135.44	4,334.12	-4,259.90	4,809.98	6,409.96	0.77	0.46	-0.62	
11,933.00	91.27	134.78	4,332.41	-4,326.48	4,876.31	6,503.95	0.85	0.48	-0.70	
12,027.00	91.80	134.24	4,329.89	-4,392.35	4,943.32	6,597.90	0.80	0.56	-0.57	
12,121.00	91.99	133.25	4,326.78	-4,457.31	5,011.19	6,691.80	1.07	0.20	-1.05	
12,215.00	91.70	137.02	4,323.76	-4,523.89	5,077.45	6,785.74	4.02	-0.31	4.01	
12,310.00	92.21	136.92	4,320.51	-4,593.30	5,142.24	6,880.65	0.55	0.54	-0.11	
12,403.00	92.85	136.21	4,316.41	-4,660.76	5,206.12	6,973.54	1.03	0.69	-0.76	
12,498.00	89.75	136.35	4,314.25	-4,729.39	5,271.75	7,068.49	3.27	-3.26	0.15	
12,592.00	89.79	135.38	4,314.63	-4,796.86	5,337.21	7,162.49	1.03	0.04	-1.03	
12,687.00	90.35	134.66	4,314.52	-4,864.05	5,404.36	7,257.48	0.96	0.59	-0.76	
12,781.00	90.72	133.77	4,313.64	-4,929.60	5,471.72	7,351.46	1.03	0.39	-0.95	
12,874.00	89.77	136.48	4,313.24	-4,995.50	5,537.33	7,444.44	3.09	-1.02	2.91	
12,969.00	90.13	136.15	4,313.32	-5,064.20	5,602.95	7,539.43	0.51	0.38	-0.35	
13,063.00	91.18	136.03	4,312.25	-5,131.91	5,668.14	7,633.42	1.12	1.12	-0.13	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

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)
13,157.00	91.95	135.88	4,309.68	-5,199.45	5,733.46	7,727.38	0.83	0.82	-0.16
13,252.00	90.05	135.95	4,308.02	-5,267.68	5,799.54	7,822.36	2.00	-2.00	0.07
13,345.00	90.34	134.72	4,307.71	-5,333.82	5,864.92	7,915.36	1.36	0.31	-1.32
13,440.00	90.35	137.11	4,307.13	-5,402.06	5,931.00	8,010.35	2.52	0.01	2.52
13,534.00	90.99	136.87	4,306.04	-5,470.79	5,995.12	8,104.31	0.73	0.68	-0.26
13,628.00	91.96	135.84	4,303.62	-5,538.78	6,059.97	8,198.26	1.50	1.03	-1.10
13,723.00	89.80	135.51	4,302.16	-5,606.73	6,126.34	8,293.24	2.30	-2.27	-0.35
13,818.00	90.63	136.15	4,301.80	-5,674.87	6,192.54	8,388.24	1.10	0.87	0.67
13,912.00	91.00	137.05	4,300.46	-5,743.16	6,257.11	8,482.21	1.04	0.39	0.96
14,006.00	91.50	136.10	4,298.41	-5,811.42	6,321.71	8,576.17	1.14	0.53	-1.01
14,101.00	92.13	135.48	4,295.40	-5,879.48	6,387.92	8,671.12	0.93	0.66	-0.65
14,195.00	89.84	133.76	4,293.79	-5,945.48	6,454.81	8,765.09	3.05	-2.44	-1.83
14,290.00	90.35	132.92	4,293.63	-6,010.68	6,523.91	8,860.02	1.03	0.54	-0.88
14,384.00	88.90	134.87	4,294.25	-6,075.85	6,591.64	8,953.97	2.59	-1.54	2.07
14,478.00	89.21	135.50	4,295.80	-6,142.53	6,657.88	9,047.96	0.75	0.33	0.67
14,572.00	89.98	135.07	4,296.46	-6,209.32	6,724.01	9,141.96	0.94	0.82	-0.46
14,666.00	90.16	133.49	4,296.35	-6,274.95	6,791.31	9,235.93	1.69	0.19	-1.68
14,760.00	90.58	133.80	4,295.74	-6,339.82	6,859.33	9,329.88	0.56	0.45	0.33
14,855.00	90.78	132.75	4,294.61	-6,404.94	6,928.49	9,424.80	1.13	0.21	-1.11
14,862.10	90.84	132.71	4,294.51	-6,409.76	6,933.71	9,431.90	0.98	0.79	-0.58
LTP @ 14862.10 MD 4294.51 TVD									
14,869.00	90.89	132.67	4,294.41	-6,414.43	6,938.78	9,438.79	0.98	0.79	-0.58
330 ppd @ 14869.00 MD 4294.41 TVD									
14,931.00	91.38	132.31	4,293.18	-6,456.30	6,984.49	9,500.69	0.98	0.79	-0.58
Survey @ 14931.00 MD 4293.18 TVD									
14,992.00	91.38	132.31	4,291.71	-6,497.35	7,029.58	9,561.58	0.00	0.00	0.00
Survey proj. to 14992 MD 4291.71 TVD 160 FSL 239 FEL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
455.00	455.00	1.33	0.00	MWD surveys
2,823.50	2,676.47	601.32	-272.01	9 5/8" Casing Shoe @ 2823.50 MD 2676.47 TVD
4,783.28	4,332.90	766.21	-134.02	FTP @ 4783.28 MD 4332.90 TVD
14,862.10	4,294.51	-6,409.76	6,933.71	LTP @ 14862.10 MD 4294.51 TVD
14,869.00	4,294.41	-6,414.43	6,938.78	330 ppd @ 14869.00 MD 4294.41 TVD
14,931.00	4,293.18	-6,456.30	6,984.49	Survey @ 14931.00 MD 4293.18 TVD
14,992.00	4,291.71	-6,497.35	7,029.58	Survey proj. to 14992 MD 4291.71 TVD 160 FSL 239 FEL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

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. 055H, Surf loc: 1376 FSL 2024 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,895,362.67 usft	Latitude:	36.20894500
	+E/-W	0.00 ft	Easting:	2,745,868.53 usft	Longitude:	-107.75612500
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	49,032.34354952

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	2/4/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,772.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,852.00	14,931.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,992.00	14,992.00	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	1,895,362.67	2,745,868.53	36.20894500	-107.75612500	
8.00	0.00	0.00	8.00	0.00	0.00	1,895,362.67	2,745,868.53	36.20894500	-107.75612500	
455.00	0.34	0.16	455.00	1.33	0.00	1,895,364.00	2,745,868.53	36.20894864	-107.75612499	
MWD surveys										
484.00	0.36	0.68	484.00	1.50	0.01	1,895,364.18	2,745,868.53	36.20894913	-107.75612498	
543.00	0.29	344.92	543.00	1.83	-0.03	1,895,364.51	2,745,868.49	36.20895004	-107.75612511	
603.00	0.35	1.83	602.99	2.16	-0.07	1,895,364.84	2,745,868.46	36.20895094	-107.75612522	
663.00	0.48	338.83	662.99	2.58	-0.15	1,895,365.25	2,745,868.38	36.20895209	-107.75612551	
724.00	0.33	341.55	723.99	2.99	-0.30	1,895,365.66	2,745,868.23	36.20895320	-107.75612601	
784.00	0.34	324.44	783.99	3.29	-0.46	1,895,365.97	2,745,868.07	36.20895405	-107.75612654	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
844.00	0.42	335.02	843.99	3.64	-0.65	1,895,366.31	2,745,867.87	36.20895500	-107.75612721
903.00	0.33	354.00	902.99	4.00	-0.76	1,895,366.68	2,745,867.76	36.20895600	-107.75612758
963.00	0.40	347.91	962.99	4.38	-0.82	1,895,367.05	2,745,867.70	36.20895703	-107.75612779
1,028.00	1.96	350.95	1,027.97	5.70	-1.05	1,895,368.37	2,745,867.48	36.20896066	-107.75612854
1,091.00	3.65	345.71	1,090.89	8.71	-1.71	1,895,371.38	2,745,866.82	36.20896892	-107.75613078
1,155.00	5.54	344.62	1,154.69	13.66	-3.03	1,895,376.33	2,745,865.49	36.20898253	-107.75613525
1,218.00	7.49	340.64	1,217.28	20.47	-5.20	1,895,383.14	2,745,863.33	36.20900124	-107.75614258
1,281.00	9.35	339.18	1,279.59	29.12	-8.38	1,895,391.80	2,745,860.15	36.20902503	-107.75615334
1,344.00	10.78	335.14	1,341.62	39.25	-12.68	1,895,401.93	2,745,855.85	36.20905286	-107.75616787
1,407.00	12.48	332.12	1,403.33	50.62	-18.34	1,895,413.29	2,745,850.19	36.20908409	-107.75618703
1,470.00	14.11	331.83	1,464.64	63.41	-25.15	1,895,426.08	2,745,843.38	36.20911924	-107.75621008
1,533.00	15.64	332.45	1,525.52	77.71	-32.70	1,895,440.38	2,745,835.83	36.20915854	-107.75623564
1,597.00	17.15	332.49	1,586.92	93.72	-41.05	1,895,456.40	2,745,827.48	36.20920256	-107.75626390
1,659.00	18.82	332.80	1,645.89	110.73	-49.84	1,895,473.40	2,745,818.68	36.20924929	-107.75629366
1,722.00	20.67	333.12	1,705.18	129.69	-59.52	1,895,492.36	2,745,809.01	36.20930139	-107.75632640
1,786.00	22.34	333.67	1,764.73	150.66	-70.02	1,895,513.34	2,745,798.51	36.20935904	-107.75636195
1,849.00	24.07	333.60	1,822.63	172.90	-81.04	1,895,535.58	2,745,787.48	36.20942016	-107.75639926
1,912.00	25.98	335.59	1,879.71	196.98	-92.46	1,895,559.65	2,745,776.07	36.20948632	-107.75643789
1,975.00	28.21	337.28	1,935.79	223.28	-103.91	1,895,585.96	2,745,764.61	36.20955860	-107.75647665
2,038.00	30.02	337.53	1,990.83	251.58	-115.69	1,895,614.26	2,745,752.84	36.20963637	-107.75651649
2,101.00	30.38	337.75	2,045.28	280.89	-127.75	1,895,643.56	2,745,740.78	36.20971691	-107.75655728
2,164.00	29.99	337.03	2,099.74	310.13	-139.92	1,895,672.80	2,745,728.60	36.20979727	-107.75659847
2,227.00	29.31	336.43	2,154.49	338.76	-152.23	1,895,701.44	2,745,716.29	36.20987594	-107.75664013
2,290.00	30.06	337.06	2,209.22	367.43	-164.55	1,895,730.10	2,745,703.98	36.20995472	-107.75668180
2,353.00	30.21	336.17	2,263.71	396.46	-177.10	1,895,759.13	2,745,691.42	36.21003449	-107.75672428
2,416.00	29.19	335.64	2,318.43	424.95	-189.84	1,895,787.62	2,745,678.68	36.21011280	-107.75676739
2,479.00	28.85	334.92	2,373.52	452.71	-202.62	1,895,815.39	2,745,665.90	36.21018909	-107.75681064
2,542.00	28.26	335.49	2,428.86	480.05	-215.25	1,895,842.72	2,745,653.27	36.21026421	-107.75685338
2,605.00	28.58	335.69	2,484.26	507.35	-227.64	1,895,870.03	2,745,640.88	36.21033924	-107.75689531
2,669.00	28.63	335.06	2,540.45	535.21	-240.41	1,895,897.88	2,745,628.12	36.21041579	-107.75693851
2,732.00	28.29	334.52	2,595.84	562.37	-253.20	1,895,925.04	2,745,615.33	36.21049043	-107.75698179
2,772.00	28.30	334.70	2,631.06	579.50	-261.33	1,895,942.17	2,745,607.20	36.21053751	-107.75700930
2,823.50	28.01	333.12	2,676.47	601.32	-272.01	1,895,964.00	2,745,596.51	36.21059748	-107.75704546
9 5/8" Casing Shoe @ 2823.50 MD 2676.47 TVD									
2,852.00	27.86	332.24	2,701.64	613.19	-278.14	1,895,975.86	2,745,590.39	36.21063008	-107.75706620
2,884.00	27.58	331.96	2,729.97	626.34	-285.10	1,895,989.01	2,745,583.42	36.21066624	-107.75708977
2,978.00	27.75	334.14	2,813.23	665.24	-304.88	1,896,027.91	2,745,563.65	36.21077314	-107.75715670
3,072.00	27.38	333.19	2,896.56	704.23	-324.17	1,896,066.90	2,745,544.35	36.21088028	-107.75722200
3,166.00	27.72	338.16	2,979.91	743.82	-342.06	1,896,106.49	2,745,526.47	36.21098907	-107.75728252
3,261.00	27.56	337.92	3,064.07	784.69	-358.54	1,896,147.36	2,745,509.99	36.21110139	-107.75733828
3,355.00	26.64	336.97	3,147.75	824.24	-374.96	1,896,186.91	2,745,493.57	36.21121006	-107.75739384
3,450.00	28.60	335.62	3,231.92	864.55	-392.68	1,896,227.22	2,745,475.85	36.21132085	-107.75745380
3,544.00	28.14	334.28	3,314.63	905.01	-411.58	1,896,267.69	2,745,456.94	36.21143205	-107.75751778
3,639.00	26.50	335.16	3,399.03	944.43	-430.21	1,896,307.10	2,745,438.32	36.21154038	-107.75758082
3,702.00	25.00	331.50	3,455.78	968.89	-442.47	1,896,331.56	2,745,426.06	36.21160759	-107.75762231
3,733.00	24.61	330.60	3,483.92	980.27	-448.76	1,896,342.94	2,745,419.76	36.21163887	-107.75764362
3,765.00	22.11	331.25	3,513.29	991.36	-454.93	1,896,354.03	2,745,413.59	36.21166933	-107.75766450
3,796.00	19.39	333.71	3,542.28	1,001.09	-460.02	1,896,363.76	2,745,408.51	36.21169608	-107.75768171
3,827.00	16.52	336.47	3,571.77	1,009.75	-464.06	1,896,372.42	2,745,404.47	36.21171987	-107.75769538
3,859.00	13.77	344.60	3,602.66	1,017.59	-466.89	1,896,380.26	2,745,401.64	36.21174142	-107.75770495
3,890.00	12.01	354.08	3,632.88	1,024.36	-468.20	1,896,387.03	2,745,400.33	36.21176001	-107.75770938
3,921.00	10.94	3.67	3,663.26	1,030.50	-468.34	1,896,393.17	2,745,400.18	36.21177689	-107.75770986
3,953.00	8.99	18.23	3,694.78	1,035.91	-467.37	1,896,398.58	2,745,401.16	36.21179174	-107.75770653
3,984.00	8.96	39.03	3,725.41	1,040.08	-465.09	1,896,402.76	2,745,403.44	36.21180321	-107.75769880
4,016.00	9.50	53.78	3,757.00	1,043.58	-461.39	1,896,406.25	2,745,407.14	36.21181281	-107.75768624



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,047.00	9.91	65.00	3,787.56	1,046.22	-456.91	1,896,408.89	2,745,411.62	36.21182005	-107.75767104
4,079.00	11.19	79.01	3,819.02	1,047.98	-451.36	1,896,410.65	2,745,417.17	36.21182486	-107.75765224
4,110.00	12.92	90.84	3,849.34	1,048.50	-444.94	1,896,411.17	2,745,423.58	36.21182629	-107.75763048
4,141.00	15.00	101.66	3,879.43	1,047.64	-437.55	1,896,410.31	2,745,430.98	36.21182390	-107.75760541
4,172.00	17.12	106.60	3,909.22	1,045.52	-429.24	1,896,408.19	2,745,439.28	36.21181807	-107.75757727
4,204.00	19.50	112.01	3,939.60	1,042.17	-419.78	1,896,404.85	2,745,448.75	36.21180886	-107.75754518
4,235.00	22.26	118.73	3,968.56	1,037.41	-409.83	1,896,400.08	2,745,458.70	36.21179575	-107.75751147
4,267.00	24.04	124.97	3,997.99	1,030.76	-399.17	1,896,393.43	2,745,469.36	36.21177746	-107.75747536
4,298.00	26.53	128.42	4,026.02	1,022.84	-388.57	1,896,385.51	2,745,479.96	36.21175567	-107.75743944
4,330.00	29.34	131.39	4,054.29	1,013.21	-377.08	1,896,375.88	2,745,491.44	36.21172920	-107.75740054
4,361.00	32.42	133.49	4,080.89	1,002.47	-365.35	1,896,365.14	2,745,503.17	36.21169966	-107.75736081
4,393.00	36.29	134.48	4,107.31	989.92	-352.37	1,896,352.59	2,745,516.16	36.21166517	-107.75731682
4,424.00	39.97	135.78	4,131.69	976.35	-338.87	1,896,339.03	2,745,529.65	36.21162787	-107.75727111
4,455.00	43.42	136.49	4,154.83	961.49	-324.59	1,896,324.16	2,745,543.94	36.21158700	-107.75722273
4,487.00	46.31	136.65	4,177.51	945.10	-309.07	1,896,307.77	2,745,559.45	36.21154193	-107.75717018
4,518.00	49.40	136.34	4,198.31	928.43	-293.25	1,896,291.10	2,745,575.28	36.21149611	-107.75711659
4,550.00	52.54	136.03	4,218.46	910.49	-276.04	1,896,273.16	2,745,592.48	36.21144681	-107.75705830
4,581.00	55.64	136.45	4,236.64	892.36	-258.68	1,896,255.03	2,745,609.85	36.21139696	-107.75699949
4,613.00	58.19	136.52	4,254.10	872.92	-240.22	1,896,235.59	2,745,628.31	36.21134351	-107.75693697
4,644.00	59.69	136.55	4,270.10	853.64	-221.95	1,896,216.32	2,745,646.57	36.21129052	-107.75687510
4,676.00	59.64	136.23	4,286.26	833.65	-202.90	1,896,196.32	2,745,665.62	36.21123555	-107.75681057
4,707.00	60.93	135.14	4,301.63	814.39	-184.09	1,896,177.06	2,745,684.43	36.21118259	-107.75674686
4,739.00	65.25	133.71	4,316.11	794.42	-163.72	1,896,157.09	2,745,704.81	36.21112771	-107.75667784
4,770.00	68.67	133.39	4,328.24	774.77	-143.04	1,896,137.44	2,745,725.48	36.21107368	-107.75660781
4,783.28	70.22	133.58	4,332.90	766.21	-134.02	1,896,128.89	2,745,734.50	36.21105015	-107.75657725
FTP @ 4783.28 MD 4332.90 TVD									
4,802.00	72.41	133.84	4,338.90	753.96	-121.20	1,896,116.63	2,745,747.32	36.21101646	-107.75653383
4,833.00	75.82	135.02	4,347.38	733.09	-99.92	1,896,095.76	2,745,768.61	36.21095908	-107.75646173
4,865.00	79.54	135.41	4,354.21	710.90	-77.90	1,896,073.58	2,745,790.63	36.21089809	-107.75638715
4,896.00	83.40	135.18	4,358.80	689.12	-56.34	1,896,051.79	2,745,812.19	36.21083820	-107.75631412
4,959.00	90.39	134.13	4,362.21	644.93	-11.61	1,896,007.61	2,745,856.91	36.21071672	-107.75616264
5,053.00	91.48	133.61	4,360.68	579.80	56.14	1,895,942.47	2,745,924.67	36.21053764	-107.75593313
5,148.00	90.62	134.46	4,358.94	513.78	124.43	1,895,876.45	2,745,992.95	36.21035612	-107.75570184
5,242.00	90.53	133.88	4,358.00	448.28	191.85	1,895,810.96	2,746,060.37	36.21017606	-107.75547348
5,337.00	91.19	132.83	4,356.57	383.07	260.91	1,895,745.75	2,746,129.44	36.20999676	-107.75523953
5,431.00	88.61	134.03	4,356.73	318.46	329.17	1,895,681.13	2,746,197.69	36.20981911	-107.75500833
5,526.00	89.06	133.53	4,358.67	252.74	397.74	1,895,615.41	2,746,266.27	36.20963843	-107.75477605
5,620.00	89.04	134.92	4,360.22	187.19	465.09	1,895,549.86	2,746,333.62	36.20945820	-107.75454793
5,715.00	89.51	135.31	4,361.43	119.89	532.13	1,895,482.56	2,746,400.65	36.20927316	-107.75432088
5,810.00	90.04	135.52	4,361.80	52.23	598.82	1,895,414.90	2,746,467.34	36.20908715	-107.75409502
5,904.00	90.14	136.28	4,361.65	-15.28	664.23	1,895,347.40	2,746,532.76	36.20890156	-107.75387346
5,999.00	89.83	137.44	4,361.68	-84.60	729.19	1,895,278.08	2,746,597.71	36.20871099	-107.75365346
6,093.00	89.54	136.07	4,362.19	-153.07	793.59	1,895,209.61	2,746,662.11	36.20852275	-107.75343536
6,187.00	89.32	135.06	4,363.13	-220.18	859.39	1,895,142.49	2,746,727.92	36.20833823	-107.75321249
6,281.00	89.21	135.07	4,364.33	-286.72	925.78	1,895,075.95	2,746,794.30	36.20815529	-107.75298764
6,376.00	89.32	133.83	4,365.55	-353.24	993.59	1,895,009.43	2,746,862.11	36.20797240	-107.75275797
6,470.00	89.11	136.40	4,366.84	-419.83	1,059.91	1,894,942.84	2,746,928.44	36.20778932	-107.75253334
6,564.00	89.25	136.46	4,368.19	-487.93	1,124.69	1,894,874.75	2,746,993.22	36.20760210	-107.75231394
6,658.00	88.74	136.04	4,369.83	-555.82	1,189.69	1,894,806.85	2,747,058.21	36.20741544	-107.75209383
6,752.00	90.76	136.93	4,370.24	-623.98	1,254.40	1,894,738.69	2,747,122.93	36.20722804	-107.75187465
6,846.00	91.16	135.74	4,368.67	-691.97	1,319.30	1,894,670.70	2,747,187.82	36.20704113	-107.75165488
6,941.00	91.84	134.78	4,366.18	-759.43	1,386.14	1,894,603.25	2,747,254.66	36.20685567	-107.75142849
7,035.00	89.67	135.73	4,364.94	-826.18	1,452.30	1,894,536.50	2,747,320.83	36.20667214	-107.75120442
7,129.00	90.16	135.59	4,365.08	-893.41	1,518.00	1,894,469.27	2,747,386.52	36.20648730	-107.75098192
7,224.00	90.97	135.40	4,364.15	-961.16	1,584.59	1,894,401.52	2,747,453.11	36.20630103	-107.75075640



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,318.00	91.27	135.10	4,362.31	-1,027.90	1,650.75	1,894,334.77	2,747,519.28	36.20611752	-107.75053232
7,412.00	91.86	133.74	4,359.74	-1,093.67	1,717.86	1,894,269.01	2,747,586.39	36.20593670	-107.75030503
7,507.00	90.57	136.26	4,357.73	-1,160.82	1,785.02	1,894,201.86	2,747,653.54	36.20575207	-107.75007760
7,601.00	90.84	135.72	4,356.57	-1,228.42	1,850.32	1,894,134.25	2,747,718.84	36.20556620	-107.74985644
7,695.00	89.04	137.85	4,356.67	-1,296.92	1,914.68	1,894,065.75	2,747,783.20	36.20537788	-107.74963849
7,789.00	89.30	138.48	4,358.03	-1,366.95	1,977.37	1,893,995.73	2,747,845.89	36.20518535	-107.74942620
7,883.00	89.55	137.83	4,358.97	-1,436.97	2,040.08	1,893,925.71	2,747,908.60	36.20499285	-107.74921386
7,977.00	89.86	136.94	4,359.46	-1,506.15	2,103.72	1,893,856.53	2,747,972.24	36.20480267	-107.74899834
8,072.00	89.99	135.78	4,359.58	-1,574.89	2,169.28	1,893,787.78	2,748,037.80	36.20461365	-107.74877632
8,166.00	90.71	134.98	4,359.01	-1,641.80	2,235.30	1,893,720.88	2,748,103.82	36.20442970	-107.74855273
8,260.00	91.03	134.15	4,357.58	-1,707.75	2,302.26	1,893,654.92	2,748,170.79	36.20424836	-107.74832595
8,354.00	91.31	133.81	4,355.66	-1,773.01	2,369.89	1,893,589.66	2,748,238.41	36.20406892	-107.74809692
8,449.00	89.35	135.35	4,355.11	-1,839.69	2,437.55	1,893,522.99	2,748,306.07	36.20388559	-107.74786779
8,543.00	89.85	135.02	4,355.77	-1,906.37	2,503.80	1,893,456.31	2,748,372.32	36.20370225	-107.74764343
8,637.00	90.02	134.24	4,355.88	-1,972.41	2,570.70	1,893,390.27	2,748,439.22	36.20352068	-107.74741688
8,732.00	88.06	136.61	4,357.47	-2,040.06	2,637.35	1,893,322.62	2,748,505.88	36.20333467	-107.74719114
8,826.00	88.05	136.03	4,360.66	-2,108.00	2,702.24	1,893,254.68	2,748,570.76	36.20314787	-107.74697143
8,920.00	88.21	135.34	4,363.73	-2,175.22	2,767.87	1,893,187.45	2,748,636.39	36.20296304	-107.74674917
9,014.00	88.20	134.63	4,366.67	-2,241.64	2,834.32	1,893,121.04	2,748,702.84	36.20278042	-107.74652413
9,108.00	90.08	137.24	4,368.08	-2,309.17	2,899.68	1,893,053.51	2,748,768.20	36.20259476	-107.74630281
9,203.00	90.87	136.76	4,367.30	-2,378.64	2,964.47	1,892,984.03	2,748,832.99	36.20240374	-107.74608342
9,297.00	91.30	136.04	4,365.52	-2,446.70	3,029.28	1,892,915.97	2,748,897.80	36.20221662	-107.74586395
9,391.00	91.75	135.44	4,363.01	-2,514.00	3,094.86	1,892,848.68	2,748,963.38	36.20203158	-107.74564188
9,485.00	92.31	134.84	4,359.68	-2,580.59	3,161.12	1,892,782.09	2,749,029.64	36.20184850	-107.74541748
9,580.00	90.68	135.72	4,357.21	-2,648.06	3,227.94	1,892,714.61	2,749,096.46	36.20166296	-107.74519121
9,674.00	91.10	135.46	4,355.75	-2,715.21	3,293.71	1,892,647.47	2,749,162.23	36.20147836	-107.74496848
9,768.00	90.67	133.77	4,354.29	-2,781.21	3,360.62	1,892,581.46	2,749,229.14	36.20129686	-107.74474193
9,863.00	90.17	135.92	4,353.60	-2,848.20	3,427.97	1,892,514.48	2,749,296.49	36.20111267	-107.74451385
9,957.00	90.92	135.29	4,352.70	-2,915.36	3,493.73	1,892,447.31	2,749,362.25	36.20092800	-107.74429118
10,051.00	91.37	134.34	4,350.82	-2,981.60	3,560.39	1,892,381.08	2,749,428.91	36.20074587	-107.74406542
10,145.00	90.70	137.29	4,349.13	-3,048.99	3,625.89	1,892,313.69	2,749,494.41	36.20056058	-107.74384363
10,239.00	91.26	136.85	4,347.52	-3,117.81	3,689.91	1,892,244.87	2,749,558.42	36.20037138	-107.74362688
10,333.00	91.81	136.36	4,345.00	-3,186.09	3,754.46	1,892,176.59	2,749,622.98	36.20018364	-107.74340829
10,427.00	92.32	135.56	4,341.61	-3,253.61	3,819.76	1,892,109.07	2,749,688.28	36.19999797	-107.74318717
10,521.00	90.52	135.79	4,339.28	-3,320.84	3,885.42	1,892,041.84	2,749,753.94	36.19981314	-107.74296484
10,615.00	90.92	136.18	4,338.10	-3,388.43	3,950.73	1,891,974.25	2,749,819.25	36.19962728	-107.74274370
10,709.00	91.27	136.12	4,336.31	-3,456.21	4,015.84	1,891,906.47	2,749,884.36	36.19944092	-107.74252323
10,803.00	91.66	135.33	4,333.90	-3,523.49	4,081.44	1,891,839.19	2,749,949.96	36.19925593	-107.74230111
10,898.00	89.72	135.81	4,332.76	-3,591.32	4,147.94	1,891,771.36	2,750,016.45	36.19906942	-107.74207595
10,992.00	89.45	135.12	4,333.44	-3,658.32	4,213.86	1,891,704.36	2,750,082.38	36.19888518	-107.74185272
11,086.00	89.60	134.47	4,334.22	-3,724.55	4,280.56	1,891,638.13	2,750,149.08	36.19870308	-107.74162686
11,180.00	89.87	134.29	4,334.65	-3,790.29	4,347.75	1,891,572.39	2,750,216.26	36.19852230	-107.74139937
11,274.00	89.49	136.44	4,335.18	-3,857.18	4,413.78	1,891,505.50	2,750,282.30	36.19833838	-107.74117576
11,368.00	89.70	135.83	4,335.84	-3,924.95	4,478.92	1,891,437.73	2,750,347.44	36.19815204	-107.74095521
11,463.00	89.95	134.40	4,336.13	-3,992.26	4,545.96	1,891,370.42	2,750,414.48	36.19796697	-107.74072822
11,557.00	90.07	134.03	4,336.12	-4,057.81	4,613.33	1,891,304.87	2,750,481.85	36.19778672	-107.74050008
11,651.00	90.38	136.59	4,335.75	-4,124.63	4,679.43	1,891,238.05	2,750,547.95	36.19760298	-107.74027627
11,745.00	90.39	136.02	4,335.12	-4,192.59	4,744.37	1,891,170.09	2,750,612.88	36.19741611	-107.74005640
11,839.00	90.82	135.44	4,334.12	-4,259.90	4,809.98	1,891,102.78	2,750,678.50	36.19723104	-107.73983425
11,933.00	91.27	134.78	4,332.41	-4,326.48	4,876.31	1,891,036.20	2,750,744.82	36.19704795	-107.73960966
12,027.00	91.80	134.24	4,329.89	-4,392.35	4,943.32	1,890,970.33	2,750,811.83	36.19686682	-107.73938277
12,121.00	91.99	133.25	4,326.78	-4,457.31	5,011.19	1,890,905.37	2,750,879.70	36.19668818	-107.73915295
12,215.00	91.70	137.02	4,323.76	-4,523.89	5,077.45	1,890,838.79	2,750,945.97	36.19650511	-107.73892859
12,310.00	92.21	136.92	4,320.51	-4,593.30	5,142.24	1,890,769.39	2,751,010.76	36.19631428	-107.73870923
12,403.00	92.85	136.21	4,316.41	-4,660.76	5,206.12	1,890,701.92	2,751,074.63	36.19612877	-107.73849296



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 055H
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. 055H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Jan1924v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,498.00	89.75	136.35	4,314.25	-4,729.39	5,271.75	1,890,633.29	2,751,140.27	36.19594005	-107.73827075
12,592.00	89.79	135.38	4,314.63	-4,796.86	5,337.21	1,890,565.83	2,751,205.72	36.19575455	-107.73804913
12,687.00	90.35	134.66	4,314.52	-4,864.05	5,404.36	1,890,498.63	2,751,272.87	36.19556977	-107.73782177
12,781.00	90.72	133.77	4,313.64	-4,929.60	5,471.72	1,890,433.08	2,751,340.24	36.19538952	-107.73759366
12,874.00	89.77	136.48	4,313.24	-4,995.50	5,537.33	1,890,367.18	2,751,405.85	36.19520832	-107.73737152
12,969.00	90.13	136.15	4,313.32	-5,064.20	5,602.95	1,890,298.49	2,751,471.47	36.19501942	-107.73714937
13,063.00	91.18	136.03	4,312.25	-5,131.91	5,668.14	1,890,230.77	2,751,536.65	36.19483322	-107.73692867
13,157.00	91.95	135.88	4,309.68	-5,199.45	5,733.46	1,890,163.23	2,751,601.98	36.19464750	-107.73670750
13,252.00	90.05	135.95	4,308.02	-5,267.68	5,799.54	1,890,095.00	2,751,668.06	36.19445990	-107.73648377
13,345.00	90.34	134.72	4,307.71	-5,333.82	5,864.92	1,890,028.86	2,751,733.43	36.19427802	-107.73626243
13,440.00	90.35	137.11	4,307.13	-5,402.06	5,931.00	1,889,960.63	2,751,799.52	36.19409039	-107.73603869
13,534.00	90.99	136.87	4,306.04	-5,470.79	5,995.12	1,889,891.90	2,751,863.63	36.19390141	-107.73582163
13,628.00	91.96	135.84	4,303.62	-5,538.78	6,059.97	1,889,823.90	2,751,928.49	36.19371443	-107.73560206
13,723.00	89.80	135.51	4,302.16	-5,606.73	6,126.34	1,889,755.95	2,751,994.86	36.19352758	-107.73537737
13,818.00	90.63	136.15	4,301.80	-5,674.87	6,192.54	1,889,687.81	2,752,061.05	36.19334021	-107.73515326
13,912.00	91.00	137.05	4,300.46	-5,743.16	6,257.11	1,889,619.52	2,752,125.63	36.19315243	-107.73493464
14,006.00	91.50	136.10	4,298.41	-5,811.42	6,321.71	1,889,551.27	2,752,190.23	36.19296476	-107.73471594
14,101.00	92.13	135.48	4,295.40	-5,879.48	6,387.92	1,889,483.21	2,752,256.44	36.19277760	-107.73449179
14,195.00	89.84	133.76	4,293.79	-5,945.48	6,454.81	1,889,417.20	2,752,323.33	36.19259608	-107.73426532
14,290.00	90.35	132.92	4,293.63	-6,010.68	6,523.91	1,889,352.00	2,752,392.42	36.19241678	-107.73403139
14,384.00	88.90	134.87	4,294.25	-6,075.85	6,591.64	1,889,286.83	2,752,460.15	36.19223757	-107.73380207
14,478.00	89.21	135.50	4,295.80	-6,142.53	6,657.88	1,889,220.16	2,752,526.39	36.19205422	-107.73357780
14,572.00	89.98	135.07	4,296.46	-6,209.32	6,724.01	1,889,153.36	2,752,592.53	36.19187054	-107.73335390
14,666.00	90.16	133.49	4,296.35	-6,274.95	6,791.31	1,889,087.74	2,752,659.82	36.19169007	-107.73312606
14,760.00	90.58	133.80	4,295.74	-6,339.82	6,859.33	1,889,022.86	2,752,727.84	36.19151166	-107.73289577
14,855.00	90.78	132.75	4,294.61	-6,404.94	6,928.49	1,888,957.75	2,752,797.00	36.19133258	-107.73266161
14,862.10	90.84	132.71	4,294.51	-6,409.76	6,933.71	1,888,952.93	2,752,802.22	36.19131933	-107.73264396
LTP @ 14862.10 MD 4294.51 TVD									
14,869.00	90.89	132.67	4,294.41	-6,414.43	6,938.78	1,888,948.25	2,752,807.29	36.19130647	-107.73262679
330 ppd @ 14869.00 MD 4294.41 TVD									
14,931.00	91.38	132.31	4,293.18	-6,456.30	6,984.49	1,888,906.38	2,752,853.00	36.19119132	-107.73247203
Survey @ 14931.00 MD 4293.18 TVD									
14,992.00	91.38	132.31	4,291.71	-6,497.35	7,029.58	1,888,865.33	2,752,898.10	36.19107842	-107.73231934
Survey proj. to 14992 MD 4291.71 TVD 160 FSL 239 FEL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
455.00	455.00	1.33	0.00	MWD surveys
2,823.50	2,676.47	601.32	-272.01	9 5/8" Casing Shoe @ 2823.50 MD 2676.47 TVD
4,783.28	4,332.90	766.21	-134.02	FTP @ 4783.28 MD 4332.90 TVD
14,862.10	4,294.51	-6,409.76	6,933.71	LTP @ 14862.10 MD 4294.51 TVD
14,869.00	4,294.41	-6,414.43	6,938.78	330 ppd @ 14869.00 MD 4294.41 TVD
14,931.00	4,293.18	-6,456.30	6,984.49	Survey @ 14931.00 MD 4293.18 TVD
14,992.00	4,291.71	-6,497.35	7,029.58	Survey proj. to 14992 MD 4291.71 TVD 160 FSL 239 FEL

WELL NAME: GREATER LYBROOK UNIT 055H

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

API Number: 30-045-38309

AFE Number: DV03075

ER Well Number: NM08270.01

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 1,376 ft FSL 2,024 ft FEL

BH Location: 25-23N-09W Sec-Twn- Rng 232 ft FSL 306 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)	375 ft
Int TD (MD)	2,815 ft
KOP (MD)	3,785 ft
KOP (TVD)	3,529 ft
Target (TVD)	4,384 ft
Curve BUR	10 °/100 ft
POE (MD)	5,014 ft
TD (MD)	14,992 ft
Lat Len (ft)	9,928 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	375	13.375	54.5	J-55	BTC	0	375
Intermediate	12.250	2,815	9.625	36.0	J-55	LTC	0	2,815
Production	8.500	14,962	5.500	17.0	P-110	LTC	0	14,962

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE III	14.6	1.38	6.65	0.6946	100%	0	352
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	547
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,279	137
Prod. (Lead)	Type III	12.4	2.260	12.7	0.2691	65%	0	563
Prod. (Tail)	G:POZ blend	13.3	1.570	7.7	0.13052916	10%	4,312	1,714

COMPLETION / PRODUCTION SUMMARY:

Frac: 41 plug-and-perf stages with 160,000 bbls slickwater fluid and 12,900,000 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	720
Pictured Cliffs	1,100	1,100
Lewis	1,222	1,223
Chacra	1,491	1,496
Cliff House	2,548	2,671
Menefee	2,573	2,699
Point Lookout	3,530	3,784
Mancos	3,675	3,940
Gallup (MNCS_A)	4,035	4,312
MNCS_B	4,146	4,444
MNCS_C	4,236	4,589
MNCS_Cms	4,276	4,663
FTP TARGET	4,384	5,014
PROJECTED TD	4,352	14,942

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 318665

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 318665
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

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

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

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

CONDITIONS

Action 318665

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 318665
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

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