

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

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
J	23	23N	9W		1386'	SOUTH	2041'	EAST	SAN JUAN

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	23N	9W		162'	SOUTH	1076'	EAST	SAN JUAN

¹² Lse Code N	¹³ Producing Method Code	¹⁴ Gas Connection Date 3/19/24	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	WESTERN REFINING COMPANY, LLC	O
373888	HARVEST FOUR CORNERS. LLC	G

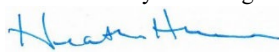
IV. Well Completion Data

²¹ Spud Date 8/27/2023	²² Ready Date 3/19/24	²³ TD 14,727' MD 4,692' TVD	²⁴ PBDT 14,646' MD 4,692' TVD	²⁵ Perforations ~5,160' – 14,570' MD ~4,711' -4,698' TVD AlphaSleeve set at 14,600'	²⁶ DHC, MC R-22081
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17.5"		13.375",54.5#, J-55		370' MD	352 sx
12.25"		9.625",36#, J-55		2,812' MD	762 sx
8.5"		5.5",17#, P-110		14,691' MD	2,233 sx

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: 

Printed name: Heather Huntington

Title: Permitting Technician

E-mail Address: hhuntington@enduringresources.com

Date: 2/27/24

Phone: 505-636-9751

OIL CONSERVATION DIVISION

Approved by: **PATRICIA MARTINEZ**

Title: **PETROLEUM SPECIALIST**

Approval Date: **3/11/2024**

RT EXPIRES 6/19/2024



ENDURING RESOURCES IV LLC

February 27, 2024

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

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

Sincerely,

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

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

District II
811 S. First Street, Artesia, NM 88240
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 30-045-38308	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 054H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6802'

¹⁰ Surface Location

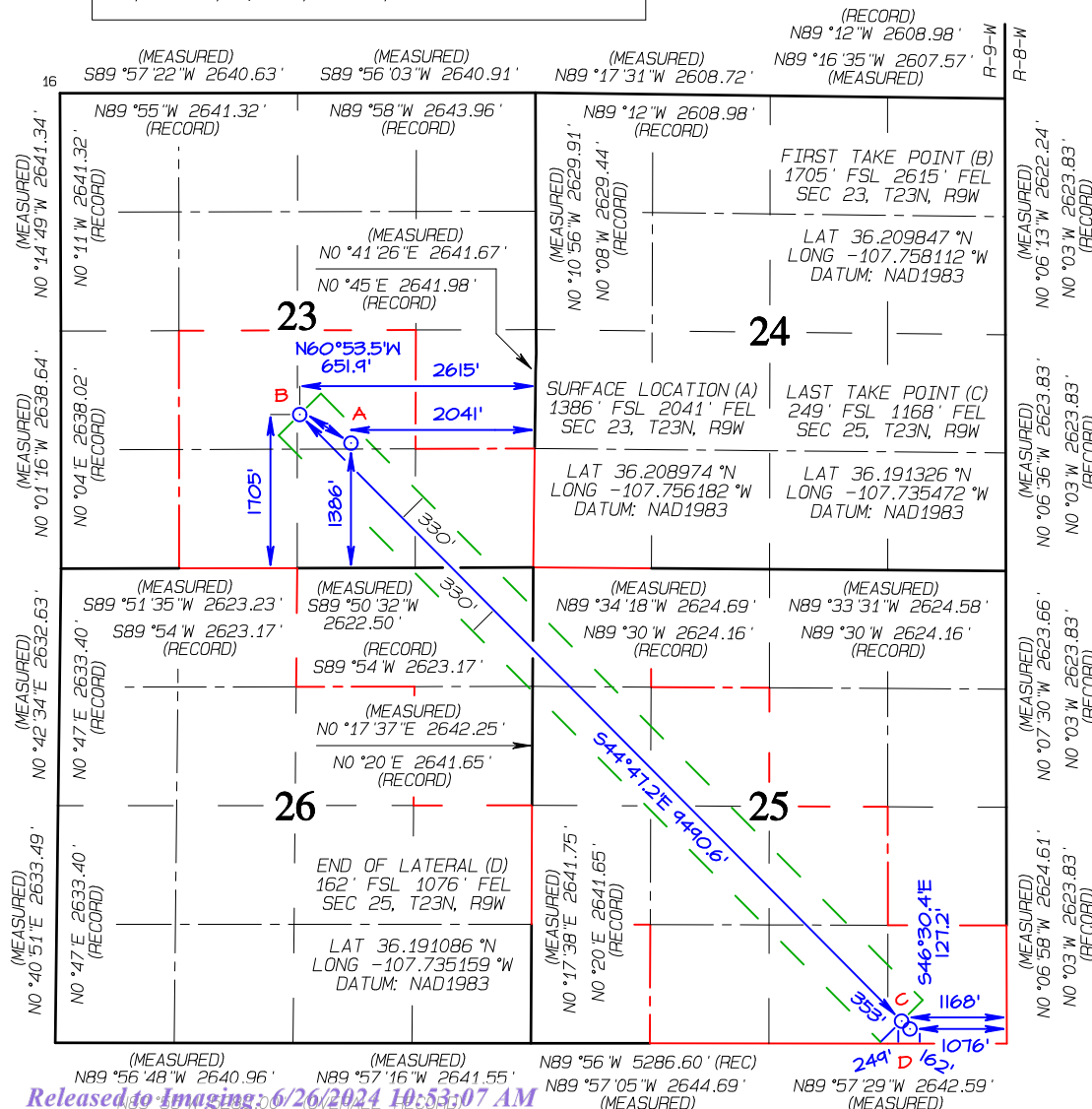
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹¹ Bottom Hole Location If Different From Surface

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		162	SOUTH	1076	EAST	SAN JUAN

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



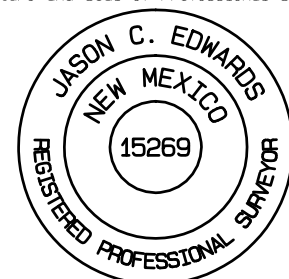
17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to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

Signature: *Heather Huntington* Date: **2/20/24**
Printed Name: **Heather Huntington**
Email Address: **hhuntington@enduringresources.com**

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

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

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number **15269**

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

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

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⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6802'

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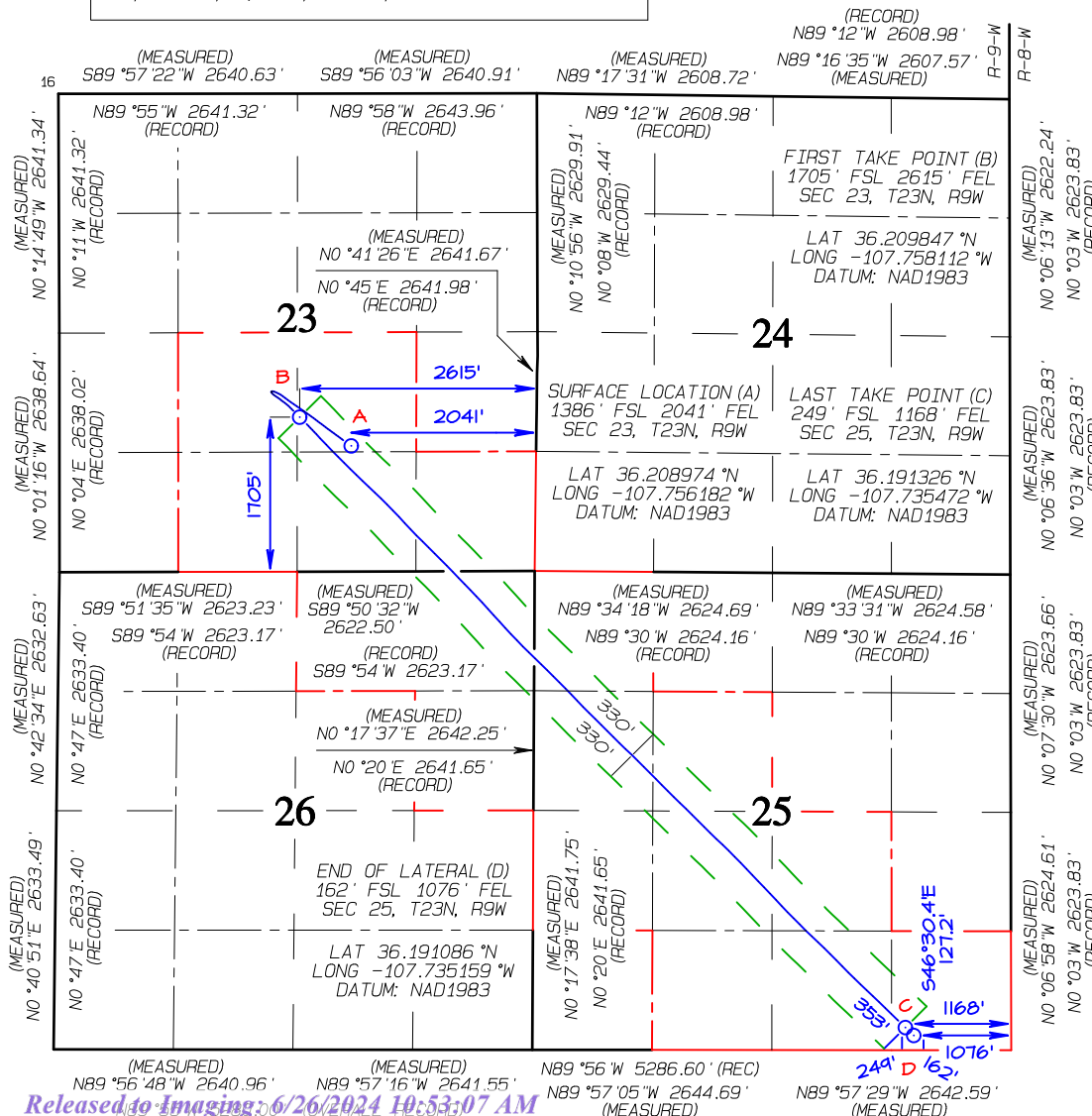
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I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole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

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

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

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

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



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

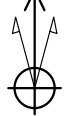
DESIGN TARGET DETAILS

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

ANNOTATIONS SURVEYS

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

TGM



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

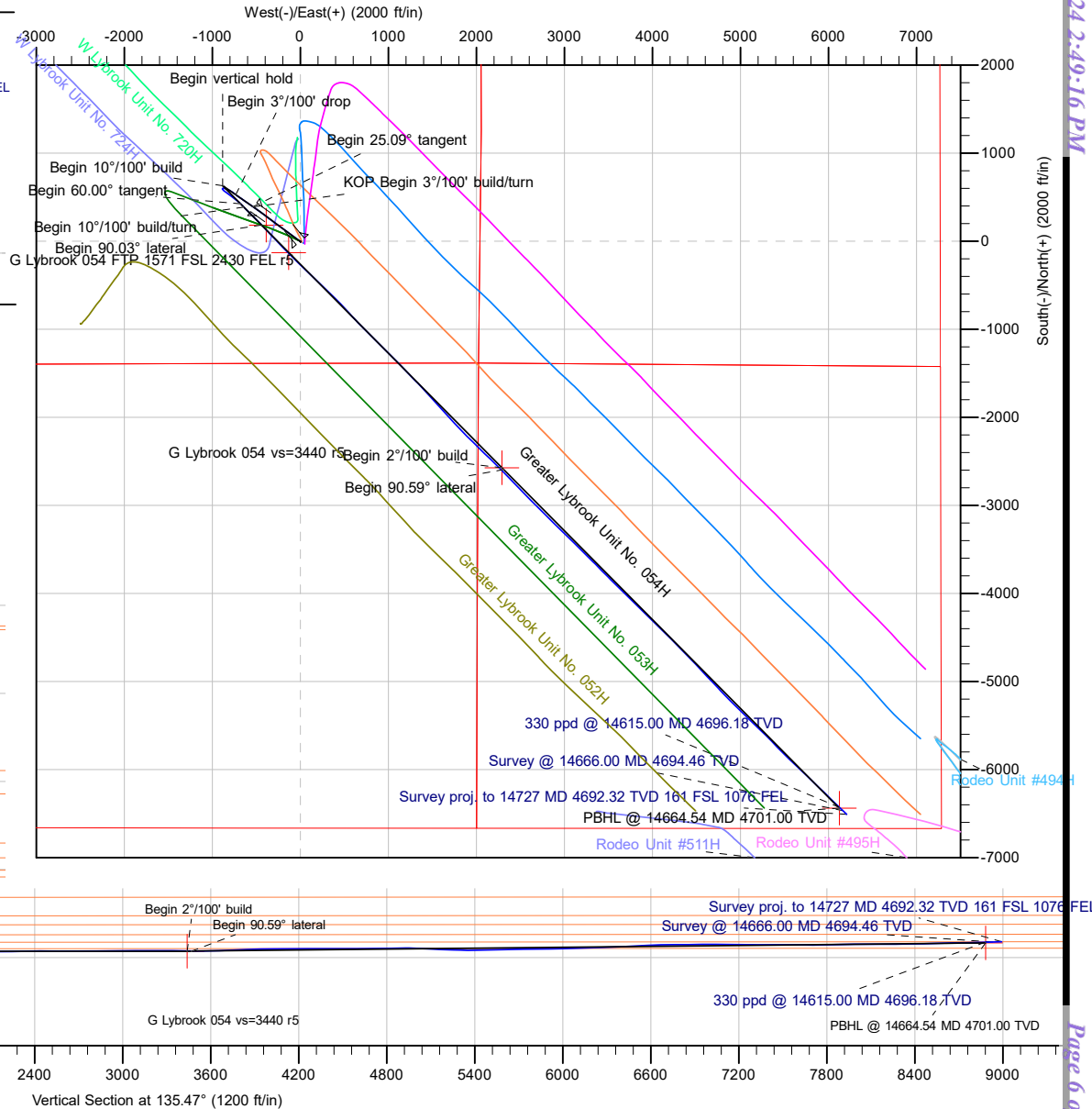
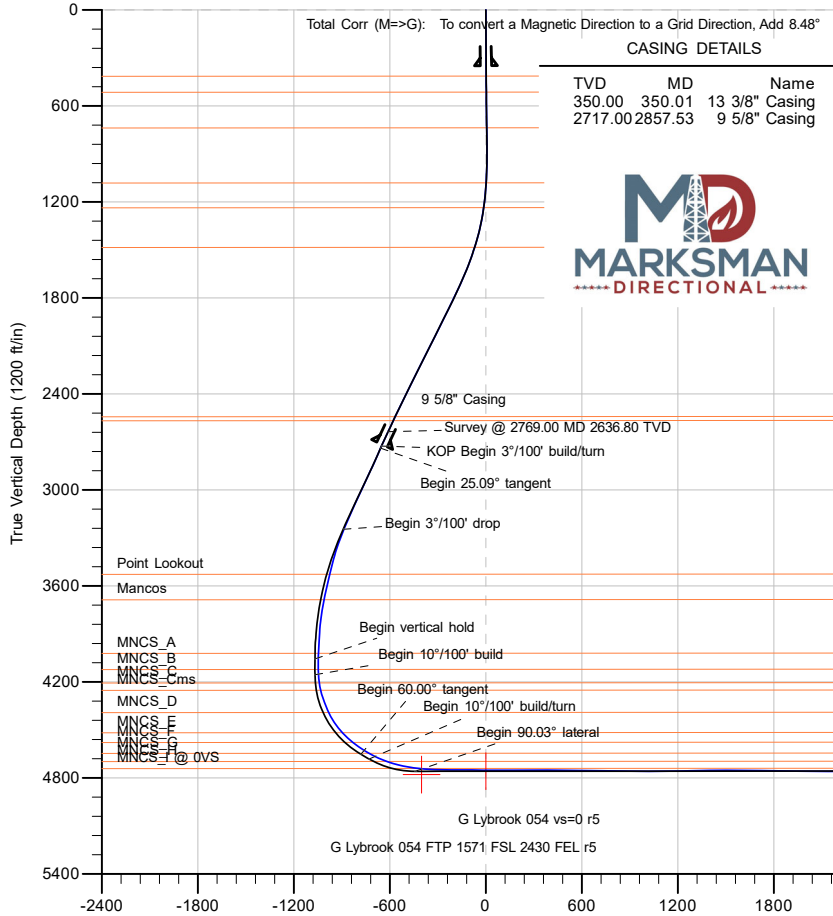
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone
 System Datum: Mean Sea Level
 Depth Reference: RKB=6802+25 @ 6827.00ft (Aztec 1000)

Surface location:
 Northing Easting Latitude Longitude
 1895373.21 2745851.70 36.20897400 -107.75618200

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

CASING DETAILS

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



Vertical Section at 135.47° (1200 ft/in)



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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

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

Well	Greater Lybrook Unit No. 054H, Surf loc: 1386 FSL 2041 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,895,373.22 usft	Latitude:	36.20897400
	+E/-W	0.00 ft	Easting:	2,745,851.70 usft	Longitude:	-107.75618200
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,802.00 ft
Grid Convergence:		0.05 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/13/2024	8.53	62.67	49,032.35279017

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

Survey Program	Date	2/10/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,769.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,852.00	14,666.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,727.00	14,727.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	
455.00	0.75	139.88	454.99	-2.24	1.89	2.92	0.17	0.17	0.00	
MWD surveys										
514.00	0.62	137.47	513.98	-2.77	2.35	3.62	0.23	-0.22	-4.08	
574.00	0.58	140.64	573.98	-3.24	2.76	4.25	0.09	-0.07	5.28	
634.00	0.48	139.55	633.98	-3.67	3.12	4.80	0.17	-0.17	-1.82	
694.00	0.46	155.76	693.98	-4.08	3.38	5.28	0.22	-0.03	27.02	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
754.00	0.32	144.21	753.97	-4.43	3.58	5.67	0.27	-0.23	-19.25
815.00	0.34	147.87	814.97	-4.73	3.77	6.01	0.05	0.03	6.00
875.00	0.32	148.98	874.97	-5.02	3.95	6.35	0.03	-0.03	1.85
934.00	0.23	127.58	933.97	-5.23	4.13	6.63	0.23	-0.15	-36.27
998.00	0.67	309.29	997.97	-5.07	3.94	6.38	1.41	0.69	-278.58
1,029.00	1.56	313.40	1,028.96	-4.67	3.50	5.78	2.88	2.87	13.26
1,092.00	3.61	305.52	1,091.90	-2.93	1.26	2.97	3.29	3.25	-12.51
1,155.00	5.86	307.64	1,154.68	0.19	-2.90	-2.17	3.58	3.57	3.37
1,219.00	8.06	309.86	1,218.20	5.06	-8.93	-9.87	3.46	3.44	3.47
1,282.00	10.29	306.96	1,280.39	11.27	-16.82	-19.83	3.61	3.54	-4.60
1,345.00	12.52	303.76	1,342.15	18.45	-27.00	-32.09	3.68	3.54	-5.08
1,408.00	14.71	304.23	1,403.37	26.75	-39.29	-46.62	3.48	3.48	0.75
1,471.00	16.62	305.10	1,464.03	36.43	-53.27	-63.33	3.05	3.03	1.38
1,534.00	18.75	306.58	1,524.05	47.65	-68.78	-82.20	3.46	3.38	2.35
1,597.00	20.88	307.38	1,583.31	60.50	-85.83	-103.32	3.41	3.38	1.27
1,660.00	22.79	307.92	1,641.79	74.81	-104.38	-126.53	3.05	3.03	0.86
1,723.00	24.44	307.32	1,699.51	90.21	-124.37	-151.53	2.65	2.62	-0.95
1,786.00	25.38	306.53	1,756.65	106.15	-145.59	-177.77	1.58	1.49	-1.25
1,849.00	26.08	306.19	1,813.41	122.37	-167.61	-204.78	1.14	1.11	-0.54
1,913.00	26.53	305.86	1,870.78	139.05	-190.55	-232.75	0.74	0.70	-0.52
1,976.00	26.46	305.42	1,927.16	155.42	-213.39	-260.45	0.33	-0.11	-0.70
2,039.00	26.80	305.96	1,983.48	171.90	-236.32	-288.27	0.66	0.54	0.86
2,102.00	27.15	306.17	2,039.63	188.72	-259.42	-316.47	0.58	0.56	0.33
2,165.00	27.63	307.21	2,095.56	206.04	-282.66	-345.11	1.08	0.76	1.65
2,228.00	27.00	306.95	2,151.54	223.47	-305.73	-373.71	1.02	-1.00	-0.41
2,291.00	26.07	306.06	2,207.90	240.22	-328.35	-401.51	1.61	-1.48	-1.41
2,354.00	26.51	306.73	2,264.38	256.77	-350.81	-429.06	0.84	0.70	1.06
2,417.00	27.09	307.17	2,320.62	273.85	-373.51	-457.16	0.97	0.92	0.70
20" Casing									
2,480.00	26.96	306.90	2,376.74	291.09	-396.36	-485.47	0.28	-0.21	-0.43
2,543.00	26.36	306.86	2,433.04	308.05	-418.97	-513.42	0.95	-0.95	-0.06
2,606.00	25.90	306.54	2,489.60	324.64	-441.21	-540.84	0.76	-0.73	-0.51
2,669.00	25.47	305.63	2,546.38	340.72	-463.28	-567.78	0.93	-0.68	-1.44
2,732.00	25.24	305.89	2,603.31	356.49	-485.17	-594.37	0.41	-0.37	0.41
2,769.00	25.06	305.60	2,636.80	365.67	-497.93	-609.87	0.59	-0.49	-0.78
2,852.00	24.88	306.34	2,712.04	386.25	-526.29	-644.43	0.43	-0.22	0.89
2,883.00	24.88	304.13	2,740.17	393.77	-536.94	-657.26	3.00	0.00	-7.13
2,978.00	24.43	302.45	2,826.51	415.53	-570.06	-696.00	0.88	-0.47	-1.77
3,072.00	25.92	306.11	2,911.58	438.07	-603.07	-735.21	2.29	1.59	3.89
3,166.00	25.13	305.02	2,996.41	461.63	-636.01	-775.11	0.98	-0.84	-1.16
3,261.00	24.32	303.71	3,082.70	484.06	-668.80	-814.10	1.03	-0.85	-1.38
3,355.00	24.92	307.40	3,168.16	506.84	-700.64	-852.66	1.76	0.64	3.93
3,450.00	21.83	306.79	3,255.35	529.58	-730.69	-889.95	3.26	-3.25	-0.64
3,544.00	19.42	306.61	3,343.32	549.36	-757.24	-922.67	2.56	-2.56	-0.19



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
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Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,639.00	15.70	301.84	3,433.88	565.57	-780.84	-950.78	4.20	-3.92	-5.02
3,733.00	13.90	296.81	3,524.76	577.37	-801.73	-973.84	2.35	-1.91	-5.35
3,827.00	14.28	295.25	3,615.93	587.41	-822.29	-995.41	0.57	0.40	-1.66
3,921.00	11.43	290.77	3,707.57	595.66	-841.49	-1,014.76	3.21	-3.03	-4.77
4,015.00	8.61	285.18	3,800.13	600.81	-856.99	-1,029.30	3.17	-3.00	-5.95
4,110.00	5.71	272.61	3,894.38	602.89	-868.58	-1,038.91	3.45	-3.05	-13.23
4,204.00	3.69	259.32	3,988.06	602.54	-876.22	-1,044.02	2.43	-2.15	-14.14
4,298.00	3.50	233.58	4,081.89	600.27	-881.50	-1,046.11	1.71	-0.20	-27.38
4,329.00	3.41	234.14	4,112.83	599.17	-883.01	-1,046.38	0.31	-0.29	1.81
4,361.00	3.66	202.99	4,144.77	597.67	-884.18	-1,046.13	5.98	0.78	-97.34
4,392.00	5.90	170.56	4,175.67	595.19	-884.31	-1,044.45	11.05	7.23	-104.61
4,423.00	9.25	154.46	4,206.40	591.37	-882.97	-1,040.79	12.69	10.81	-51.94
4,455.00	11.96	140.63	4,237.85	586.48	-879.76	-1,035.06	11.56	8.47	-43.22
4,486.00	15.09	133.54	4,267.99	581.22	-874.80	-1,027.82	11.41	10.10	-22.87
4,518.00	17.75	134.58	4,298.68	574.93	-868.30	-1,018.78	8.36	8.31	3.25
4,549.00	19.97	131.90	4,328.02	568.07	-860.99	-1,008.77	7.69	7.16	-8.65
4,581.00	22.77	126.28	4,357.82	560.76	-851.93	-997.20	10.83	8.75	-17.56
4,612.00	25.65	122.99	4,386.09	553.55	-841.46	-984.72	10.26	9.29	-10.61
4,644.00	28.53	123.23	4,414.57	545.59	-829.26	-970.49	9.01	9.00	0.75
4,675.00	31.97	124.57	4,441.35	536.87	-816.31	-955.19	11.31	11.10	4.32
4,707.00	35.69	126.93	4,467.93	526.46	-801.86	-937.63	12.33	11.63	7.38
4,738.00	39.27	127.89	4,492.52	514.99	-786.89	-918.96	11.70	11.55	3.10
4,770.00	43.19	127.31	4,516.59	502.13	-770.18	-898.07	12.31	12.25	-1.81
4,802.00	46.35	126.38	4,539.30	488.62	-752.14	-875.80	10.08	9.88	-2.91
4,833.00	49.38	127.50	4,560.10	474.80	-733.77	-853.06	10.13	9.77	3.61
4,864.00	51.47	129.84	4,579.85	459.87	-715.13	-829.34	8.90	6.74	7.55
4,896.00	53.75	131.53	4,599.28	443.30	-695.85	-804.01	8.27	7.13	5.28
4,927.00	56.66	133.88	4,616.97	426.03	-677.16	-778.59	11.26	9.39	7.58
4,959.00	59.71	136.21	4,633.84	406.78	-657.95	-751.40	11.36	9.53	7.28
4,990.00	60.46	136.41	4,649.30	387.35	-639.39	-724.53	2.48	2.42	0.65
5,022.00	62.52	136.01	4,664.57	367.06	-619.94	-696.42	6.53	6.44	-1.25
5,053.00	65.38	134.87	4,678.18	347.22	-600.39	-668.57	9.80	9.23	-3.68
5,085.00	68.55	133.96	4,690.70	326.61	-579.36	-639.13	10.25	9.91	-2.84
5,116.00	71.50	134.59	4,701.29	306.27	-558.50	-610.01	9.71	9.52	2.03
5,148.00	74.22	134.75	4,710.72	284.78	-536.76	-579.43	8.51	8.50	0.50
5,179.00	76.40	134.85	4,718.58	263.65	-515.48	-549.45	7.04	7.03	0.32
5,211.00	77.08	134.95	4,725.92	241.66	-493.42	-518.30	2.15	2.13	0.31
5,242.00	78.61	135.12	4,732.45	220.22	-472.01	-488.00	4.96	4.94	0.55
5,274.00	81.33	135.94	4,738.02	197.74	-449.93	-456.49	8.87	8.50	2.56
5,305.00	83.89	136.44	4,742.01	175.55	-428.65	-425.76	8.41	8.26	1.61
5,336.00	86.37	136.59	4,744.64	153.14	-407.40	-394.88	8.01	8.00	0.48
5,368.00	87.61	137.04	4,746.32	129.84	-385.53	-362.93	4.12	3.88	1.41
5,431.00	88.37	137.19	4,748.53	83.71	-342.68	-299.99	1.23	1.21	0.24



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,526.00	89.05	136.04	4,750.67	14.69	-277.45	-205.04	1.41	0.72	-1.21
5,620.00	89.27	135.58	4,752.05	-52.70	-211.93	-111.05	0.54	0.23	-0.49
5,715.00	89.73	135.38	4,752.88	-120.44	-145.32	-16.06	0.53	0.48	-0.21
5,809.00	90.07	135.05	4,753.04	-187.15	-79.11	77.94	0.50	0.36	-0.35
5,904.00	90.19	134.72	4,752.83	-254.19	-11.80	172.94	0.37	0.13	-0.35
5,998.00	90.14	134.24	4,752.55	-320.06	55.27	266.92	0.51	-0.05	-0.51
6,093.00	89.82	133.68	4,752.59	-386.00	123.65	361.89	0.68	-0.34	-0.59
6,187.00	90.02	133.05	4,752.72	-450.54	191.99	455.83	0.70	0.21	-0.67
6,281.00	89.16	133.84	4,753.39	-515.18	260.24	549.76	1.24	-0.91	0.84
6,375.00	89.42	133.45	4,754.56	-580.05	328.25	643.71	0.50	0.28	-0.41
6,470.00	88.36	135.93	4,756.40	-646.85	395.77	738.67	2.84	-1.12	2.61
6,563.00	88.74	135.65	4,758.75	-713.49	460.60	831.64	0.51	0.41	-0.30
6,657.00	89.70	136.64	4,760.03	-781.26	525.72	925.62	1.47	1.02	1.05
6,751.00	90.50	138.31	4,759.87	-850.53	589.25	1,019.56	1.97	0.85	1.78
6,846.00	90.40	136.21	4,759.12	-920.30	653.72	1,114.51	2.21	-0.11	-2.21
6,940.00	91.15	135.35	4,757.85	-987.66	719.27	1,208.49	1.21	0.80	-0.91
7,035.00	91.27	134.87	4,755.84	-1,054.95	786.30	1,303.47	0.52	0.13	-0.51
7,129.00	91.62	134.40	4,753.47	-1,120.97	853.17	1,397.43	0.62	0.37	-0.50
7,223.00	88.95	135.19	4,753.00	-1,187.19	919.86	1,491.41	2.96	-2.84	0.84
7,318.00	89.55	134.90	4,754.25	-1,254.41	986.98	1,586.40	0.70	0.63	-0.31
7,412.00	90.07	134.50	4,754.56	-1,320.53	1,053.79	1,680.39	0.70	0.55	-0.43
7,507.00	88.64	136.71	4,755.63	-1,388.40	1,120.25	1,775.38	2.77	-1.51	2.33
7,601.00	88.89	136.17	4,757.66	-1,456.50	1,185.01	1,869.34	0.63	0.27	-0.57
7,695.00	89.61	136.30	4,758.89	-1,524.38	1,250.02	1,963.33	0.78	0.77	0.14
7,789.00	89.27	134.43	4,759.80	-1,591.27	1,316.06	2,057.32	2.02	-0.36	-1.99
7,883.00	90.21	137.90	4,760.23	-1,659.06	1,381.15	2,151.29	3.82	1.00	3.69
7,977.00	90.90	137.60	4,759.32	-1,728.64	1,444.35	2,245.21	0.80	0.73	-0.32
8,071.00	91.52	137.44	4,757.34	-1,797.95	1,507.82	2,339.13	0.68	0.66	-0.17
8,166.00	89.15	137.80	4,756.78	-1,868.12	1,571.85	2,434.06	2.52	-2.49	0.38
8,260.00	89.84	137.59	4,757.61	-1,937.63	1,635.11	2,527.98	0.77	0.73	-0.22
8,354.00	90.66	138.17	4,757.20	-2,007.36	1,698.15	2,621.90	1.07	0.87	0.62
8,449.00	89.92	136.38	4,756.72	-2,077.14	1,762.61	2,716.84	2.04	-0.78	-1.88
8,543.00	90.31	136.08	4,756.53	-2,145.02	1,827.63	2,810.84	0.52	0.41	-0.32
8,637.00	90.58	135.15	4,755.80	-2,212.19	1,893.38	2,904.83	1.03	0.29	-0.99
8,731.00	90.66	134.39	4,754.78	-2,278.39	1,960.11	2,998.82	0.81	0.09	-0.81
8,826.00	90.91	133.91	4,753.48	-2,344.56	2,028.27	3,093.78	0.57	0.26	-0.51
8,920.00	89.60	134.56	4,753.06	-2,410.13	2,095.61	3,187.76	1.56	-1.39	0.69
9,014.00	89.73	133.98	4,753.61	-2,475.74	2,162.92	3,281.74	0.63	0.14	-0.62
9,108.00	88.88	135.20	4,754.75	-2,541.73	2,229.86	3,375.71	1.58	-0.90	1.30
9,202.00	89.58	134.73	4,756.01	-2,608.15	2,296.36	3,469.70	0.90	0.74	-0.50
9,297.00	90.64	135.94	4,755.83	-2,675.71	2,363.14	3,564.70	1.69	1.12	1.27
9,391.00	92.15	136.73	4,753.54	-2,743.69	2,428.02	3,658.66	1.81	1.61	0.84
9,485.00	92.33	136.12	4,749.87	-2,811.73	2,492.76	3,752.57	0.68	0.19	-0.65



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,579.00	92.66	135.48	4,745.78	-2,879.06	2,558.23	3,846.48	0.77	0.35	-0.68
9,674.00	90.40	134.63	4,743.24	-2,946.27	2,625.32	3,941.44	2.54	-2.38	-0.89
9,768.00	90.84	134.87	4,742.22	-3,012.44	2,692.07	4,035.42	0.53	0.47	0.26
9,862.00	91.54	134.76	4,740.27	-3,078.68	2,758.74	4,129.40	0.75	0.74	-0.12
9,957.00	89.19	135.31	4,739.67	-3,145.89	2,825.87	4,224.38	2.54	-2.47	0.58
10,051.00	89.59	134.79	4,740.67	-3,212.41	2,892.27	4,318.38	0.70	0.43	-0.55
10,144.00	90.35	134.79	4,740.72	-3,277.93	2,958.27	4,411.37	0.82	0.82	0.00
10,239.00	90.47	133.90	4,740.04	-3,344.33	3,026.21	4,506.35	0.95	0.13	-0.94
10,333.00	90.04	132.79	4,739.62	-3,408.85	3,094.57	4,600.28	1.27	-0.46	-1.18
10,427.00	90.29	135.36	4,739.35	-3,474.23	3,162.09	4,694.24	2.75	0.27	2.73
10,521.00	90.92	135.39	4,738.36	-3,541.13	3,228.12	4,788.24	0.67	0.67	0.03
10,615.00	91.41	134.32	4,736.44	-3,607.42	3,294.74	4,882.21	1.25	0.52	-1.14
10,709.00	87.93	135.90	4,736.99	-3,674.00	3,361.07	4,976.19	4.07	-3.70	1.68
10,803.00	87.02	135.27	4,741.13	-3,741.07	3,426.79	5,070.10	1.18	-0.97	-0.67
10,897.00	87.86	135.13	4,745.32	-3,807.71	3,492.96	5,164.00	0.91	0.89	-0.15
10,991.00	87.86	134.12	4,748.84	-3,873.69	3,559.81	5,257.92	1.07	0.00	-1.07
11,086.00	89.38	134.46	4,751.12	-3,940.01	3,627.79	5,352.87	1.64	1.60	0.36
11,180.00	91.41	134.21	4,750.48	-4,005.69	3,695.02	5,446.85	2.18	2.16	-0.27
11,274.00	92.00	133.98	4,747.68	-4,071.08	3,762.50	5,540.78	0.67	0.63	-0.24
11,368.00	90.60	135.47	4,745.55	-4,137.20	3,829.27	5,634.74	2.17	-1.49	1.59
11,462.00	90.86	135.15	4,744.35	-4,204.02	3,895.37	5,728.73	0.44	0.28	-0.34
11,557.00	91.15	135.09	4,742.68	-4,271.33	3,962.39	5,823.72	0.31	0.31	-0.06
11,651.00	90.37	132.76	4,741.43	-4,336.53	4,030.09	5,917.67	2.61	-0.83	-2.48
11,745.00	91.51	133.49	4,739.89	-4,400.78	4,098.68	6,011.57	1.44	1.21	0.78
11,839.00	92.48	135.82	4,736.62	-4,466.80	4,165.50	6,105.50	2.68	1.03	2.48
11,933.00	91.77	134.53	4,733.13	-4,533.42	4,231.72	6,199.43	1.57	-0.76	-1.37
12,027.00	91.17	135.55	4,730.72	-4,599.91	4,298.12	6,293.40	1.26	-0.64	1.09
12,121.00	92.56	137.08	4,727.66	-4,667.85	4,363.01	6,387.33	2.20	1.48	1.63
12,215.00	92.93	136.62	4,723.16	-4,736.35	4,427.22	6,481.20	0.63	0.39	-0.49
12,309.00	93.46	135.86	4,717.92	-4,804.13	4,492.13	6,575.04	0.98	0.56	-0.81
12,403.00	91.24	136.49	4,714.07	-4,871.89	4,557.16	6,668.95	2.45	-2.36	0.67
12,497.00	89.86	136.57	4,713.17	-4,940.10	4,621.83	6,762.93	1.47	-1.47	0.09
12,592.00	90.63	136.85	4,712.76	-5,009.25	4,686.97	6,857.90	0.86	0.81	0.29
12,686.00	91.32	137.02	4,711.16	-5,077.91	4,751.15	6,951.86	0.76	0.73	0.18
12,780.00	88.92	135.62	4,710.96	-5,145.89	4,816.06	7,045.84	2.96	-2.55	-1.49
12,874.00	89.37	135.37	4,712.37	-5,212.92	4,881.94	7,139.83	0.55	0.48	-0.27
12,968.00	89.44	134.93	4,713.34	-5,279.56	4,948.23	7,233.82	0.47	0.07	-0.47
13,063.00	89.92	134.43	4,713.87	-5,346.36	5,015.78	7,328.81	0.73	0.51	-0.53
13,157.00	89.93	133.97	4,714.00	-5,411.89	5,083.17	7,422.78	0.49	0.01	-0.49
13,251.00	89.82	132.85	4,714.20	-5,476.49	5,151.45	7,516.72	1.20	-0.12	-1.19
13,345.00	89.63	134.86	4,714.65	-5,541.61	5,219.23	7,610.68	2.15	-0.20	2.14
13,439.00	89.66	134.39	4,715.23	-5,607.64	5,286.13	7,704.67	0.50	0.03	-0.50
13,533.00	91.02	135.37	4,714.68	-5,673.96	5,352.74	7,798.66	1.78	1.45	1.04
13,628.00	92.27	136.19	4,711.95	-5,742.02	5,418.96	7,893.61	1.57	1.32	0.86



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,723.00	90.21	135.31	4,709.89	-5,810.05	5,485.23	7,988.58	2.36	-2.17	-0.93
13,817.00	90.00	134.18	4,709.72	-5,876.22	5,551.99	8,082.57	1.22	-0.22	-1.20
13,912.00	89.99	133.02	4,709.73	-5,941.73	5,620.79	8,177.52	1.22	-0.01	-1.22
14,006.00	90.50	133.87	4,709.33	-6,006.37	5,689.04	8,271.46	1.05	0.54	0.90
14,100.00	90.46	132.87	4,708.54	-6,070.91	5,757.36	8,365.39	1.06	-0.04	-1.06
14,195.00	91.65	134.64	4,706.79	-6,136.60	5,825.97	8,460.33	2.24	1.25	1.86
14,289.00	92.26	134.26	4,703.58	-6,202.39	5,893.03	8,554.26	0.76	0.65	-0.40
14,383.00	90.50	134.14	4,701.32	-6,267.90	5,960.40	8,648.21	1.88	-1.87	-0.13
14,477.00	91.15	134.10	4,699.97	-6,333.33	6,027.87	8,742.17	0.69	0.69	-0.04
14,571.00	91.76	134.01	4,697.58	-6,398.67	6,095.41	8,836.11	0.66	0.65	-0.10
14,615.00	91.88	133.72	4,696.18	-6,429.15	6,127.11	8,880.07	0.71	0.26	-0.66
330 ppd @ 14615.00 MD 4696.18 TVD									
14,666.00	92.01	133.38	4,694.46	-6,464.27	6,164.06	8,931.01	0.71	0.26	-0.66
Survey @ 14666.00 MD 4694.46 TVD									
14,727.00	92.01	133.38	4,692.32	-6,506.14	6,208.36	8,991.93	0.00	0.00	0.00
Survey proj. to 14727 MD 4692.32 TVD 161 FSL 1076 FEL									

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

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

Checked By: _____	Approved By: _____	Date: _____
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Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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

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

Well	Greater Lybrook Unit No. 054H, Surf loc: 1386 FSL 2041 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,895,373.22 usft	Latitude:	36.20897400
	+E/-W	0.00 ft	Easting:	2,745,851.70 usft	Longitude:	-107.75618200
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,802.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/13/2024	8.53	62.67	49,032.35279017

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

Survey Program	Date	2/10/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,769.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,852.00	14,666.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,727.00	14,727.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,895,373.22	2,745,851.70	36.20897400	-107.75618200
8.00	0.00	0.00	8.00	0.00	0.00	1,895,373.22	2,745,851.70	36.20897400	-107.75618200
455.00	0.75	139.88	454.99	-2.24	1.89	1,895,370.98	2,745,853.59	36.20896785	-107.75617562
MWD surveys									
514.00	0.62	137.47	513.98	-2.77	2.35	1,895,370.45	2,745,854.05	36.20896639	-107.75617405
574.00	0.58	140.64	573.98	-3.24	2.76	1,895,369.97	2,745,854.46	36.20896509	-107.75617265
634.00	0.48	139.55	633.98	-3.67	3.12	1,895,369.55	2,745,854.82	36.20896392	-107.75617145
694.00	0.46	155.76	693.98	-4.08	3.38	1,895,369.14	2,745,855.08	36.20896279	-107.75617056
754.00	0.32	144.21	753.97	-4.43	3.58	1,895,368.78	2,745,855.28	36.20896181	-107.75616989
815.00	0.34	147.87	814.97	-4.73	3.77	1,895,368.49	2,745,855.47	36.20896101	-107.75616923



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,486.00	15.09	133.54	4,267.99	581.22	-874.80	1,895,954.43	2,744,976.91	36.21057254	-107.75914585
4,518.00	17.75	134.58	4,298.68	574.93	-868.30	1,895,948.14	2,744,983.40	36.21055523	-107.75912385
4,549.00	19.97	131.90	4,328.02	568.07	-860.99	1,895,941.29	2,744,990.71	36.21053639	-107.75909909
4,581.00	22.77	126.28	4,357.82	560.76	-851.93	1,895,933.97	2,744,999.77	36.21051628	-107.75906839
4,612.00	25.65	122.99	4,386.09	553.55	-841.46	1,895,926.77	2,745,010.24	36.21049646	-107.75903293
4,644.00	28.53	123.23	4,414.57	545.59	-829.26	1,895,918.81	2,745,022.44	36.21047457	-107.75899158
4,675.00	31.97	124.57	4,441.35	536.87	-816.31	1,895,910.09	2,745,035.40	36.21045060	-107.75894769
4,707.00	35.69	126.93	4,467.93	526.46	-801.86	1,895,899.67	2,745,049.84	36.21042194	-107.75889876
4,738.00	39.27	127.89	4,492.52	514.99	-786.89	1,895,888.21	2,745,064.82	36.21039042	-107.75884802
4,770.00	43.19	127.31	4,516.59	502.13	-770.18	1,895,875.35	2,745,081.53	36.21035505	-107.75879142
4,802.00	46.35	126.38	4,539.30	488.62	-752.14	1,895,861.84	2,745,099.56	36.21031791	-107.75873032
4,833.00	49.38	127.50	4,560.10	474.80	-733.77	1,895,848.02	2,745,117.93	36.21027991	-107.75868609
4,864.00	51.47	129.84	4,579.85	459.87	-715.13	1,895,833.09	2,745,136.58	36.21023885	-107.75860491
4,896.00	53.75	131.53	4,599.28	443.30	-695.85	1,895,816.51	2,745,155.85	36.21019327	-107.75853962
4,927.00	56.66	133.88	4,616.97	426.03	-677.16	1,895,799.24	2,745,174.55	36.21014579	-107.75847629
4,959.00	59.71	136.21	4,633.84	406.78	-657.95	1,895,780.00	2,745,193.75	36.21009288	-107.75841125
4,990.00	60.46	136.41	4,649.30	387.35	-639.39	1,895,760.57	2,745,212.31	36.21003947	-107.75834838
5,022.00	62.52	136.01	4,664.57	367.06	-619.94	1,895,740.27	2,745,231.77	36.20998367	-107.75828248
5,053.00	65.38	134.87	4,678.18	347.22	-600.39	1,895,720.43	2,745,251.31	36.20992913	-107.75821629
5,085.00	68.55	133.96	4,690.70	326.61	-579.36	1,895,699.83	2,745,272.34	36.20987248	-107.75814504
5,116.00	71.50	134.59	4,701.29	306.27	-558.50	1,895,679.49	2,745,293.20	36.20981657	-107.75807439
5,148.00	74.22	134.75	4,710.72	284.78	-536.76	1,895,657.99	2,745,314.94	36.20975747	-107.75800074
5,179.00	76.40	134.85	4,718.58	263.65	-515.48	1,895,636.86	2,745,336.22	36.20969938	-107.75792867
5,211.00	77.08	134.95	4,725.92	241.66	-493.42	1,895,614.88	2,745,358.28	36.20963894	-107.75785394
5,242.00	78.61	135.12	4,732.45	220.22	-472.01	1,895,593.44	2,745,379.70	36.20957999	-107.75778141
5,274.00	81.33	135.94	4,738.02	197.74	-449.93	1,895,570.95	2,745,401.77	36.20951818	-107.75770665
5,305.00	83.89	136.44	4,742.01	175.55	-428.65	1,895,548.77	2,745,423.05	36.20945719	-107.75763457
5,336.00	86.37	136.59	4,744.64	153.14	-407.40	1,895,526.36	2,745,444.30	36.20939558	-107.75756259
5,368.00	87.61	137.04	4,746.32	129.84	-385.53	1,895,503.06	2,745,466.17	36.20933153	-107.75748852
5,431.00	88.37	137.19	4,748.53	83.71	-342.68	1,895,456.93	2,745,509.02	36.20920471	-107.75734340
5,526.00	89.05	136.04	4,750.67	14.69	-277.45	1,895,387.91	2,745,574.26	36.20901495	-107.75712244
5,620.00	89.27	135.58	4,752.05	-52.70	-211.93	1,895,320.51	2,745,639.77	36.20882968	-107.75690054
5,715.00	89.73	135.38	4,752.88	-120.44	-145.32	1,895,252.78	2,745,706.38	36.20864346	-107.75667494
5,809.00	90.07	135.05	4,753.04	-187.15	-79.11	1,895,186.06	2,745,772.60	36.20846004	-107.75645066
5,904.00	90.19	134.72	4,752.83	-254.19	-11.80	1,895,119.02	2,745,839.91	36.20827573	-107.75622268
5,998.00	90.14	134.24	4,752.55	-320.06	55.27	1,895,053.16	2,745,906.97	36.20809466	-107.75599552
6,093.00	89.82	133.68	4,752.59	-386.00	123.65	1,894,987.22	2,745,975.36	36.20791335	-107.75576389
6,187.00	90.02	133.05	4,752.72	-450.54	191.99	1,894,922.67	2,746,043.69	36.20773589	-107.75553243
6,281.00	89.16	133.84	4,753.39	-515.18	260.24	1,894,858.04	2,746,111.94	36.20755818	-107.75530127
6,375.00	89.42	133.45	4,754.56	-580.05	328.25	1,894,793.16	2,746,179.95	36.20737982	-107.75507090
6,470.00	88.36	135.93	4,756.40	-646.85	395.77	1,894,726.37	2,746,247.47	36.20719618	-107.75484221
6,563.00	88.74	135.65	4,758.75	-713.49	460.60	1,894,659.73	2,746,312.30	36.20701297	-107.75462265
6,657.00	89.70	136.64	4,760.03	-781.26	525.72	1,894,591.96	2,746,377.42	36.20682664	-107.75440211
6,751.00	90.50	138.31	4,759.87	-850.53	589.25	1,894,522.68	2,746,440.95	36.20663620	-107.75418694
6,846.00	90.40	136.21	4,759.12	-920.30	653.72	1,894,452.92	2,746,505.42	36.20644440	-107.75396861
6,940.00	91.15	135.35	4,757.85	-987.66	719.27	1,894,385.56	2,746,570.97	36.20625921	-107.75374661
7,035.00	91.27	134.87	4,755.84	-1,054.95	786.30	1,894,318.27	2,746,638.00	36.20607421	-107.75351958
7,129.00	91.62	134.40	4,753.47	-1,120.97	853.17	1,894,252.25	2,746,704.87	36.20589270	-107.75329311
7,223.00	88.95	135.19	4,753.00	-1,187.19	919.86	1,894,186.03	2,746,771.57	36.20571062	-107.75306721
7,318.00	89.55	134.90	4,754.25	-1,254.41	986.98	1,894,118.80	2,746,838.68	36.20552581	-107.75283990
7,412.00	90.07	134.50	4,754.56	-1,320.53	1,053.79	1,894,052.69	2,746,905.50	36.20534402	-107.75261362
7,507.00	88.64	136.71	4,755.63	-1,388.40	1,120.25	1,893,984.82	2,746,971.95	36.20515742	-107.75238856
7,601.00	88.89	136.17	4,757.66	-1,456.50	1,185.01	1,893,916.72	2,747,036.71	36.20497019	-107.75216924
7,695.00	89.61	136.30	4,758.89	-1,524.38	1,250.02	1,893,848.84	2,747,101.72	36.20478357	-107.75194906
7,789.00	89.27	134.43	4,759.80	-1,591.27	1,316.06	1,893,781.95	2,747,167.76	36.20459969	-107.75172541



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit No. 054H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Site:	Greater Lybrook 57 Pad (53,54,55,56 & 57)	MD Reference:	RKB=6802+25 @ 6827.00ft (Aztec 1000)
Well:	Greater Lybrook Unit No. 054H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	LT-Feb0824v17

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

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

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

WELL NAME: GREATER LYBROOK UNIT 054H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation

API Number: 30-045-38308
AFE Number: DV03076
ER Well Number: NM08271.01

State: New Mexico
County: San Juan

Surface Elev.: 6,802 ft ASL (GL) 6,827 ft ASL (KB)
Surface Location: 23-23N-09W Sec-Twn- Rng 1,386 ft FSL 2,041 ft FEL
BH Location: 25-23N-09W Sec-Twn- Rng 232 ft FSL 1160 ft FEL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 1.2 miles to 4-way intersection; Right (West) exiting CR #7890 along existing roadway for 0.6 mile to fork; Right (Northwest) for 0.3 miles to new access road; Left on access road for 0.2 miles to W LYBROOK UNIT 772H PAD (772H, 773H, 774H, 775H, 776H wells).

QUICK REFERENCE	
Sur TD (MD)	370 ft
Int TD (MD)	2,812 ft
KOP (MD)	4,399 ft
KOP (TVD)	4,177 ft
Target (TVD)	4,780 ft
Curve BUR	10 °/100 ft
POE (MD)	5,363 ft
TD (MD)	14,727 ft
Lat Len (ft)	9,322 ft

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	370
Intermediate	12.250	2,797	9.625	36.0	J-55	LTC	0	2,812
Production	8.500	14,685	5.500	17.0	P-110	LTC	0	14,691

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE III	14.6	1.38	6.65	0.6946	100%	0	352
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	625
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,279	137
Prod. (Lead)	Type II	12.4	2.260	12.71	0.2691	65%	0	555
Prod. (Tail)	G:POZ blend	13.3	1.570	7.71	0.13052916	10%	3,895	1,678

COMPLETION / PRODUCTION SUMMARY:

Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 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	2,660
Menefee	2,573	2,688
Point Lookout	3,530	3,745
Mancos	3,675	3,895
Gallup (MNCS_A)	4,035	4,258
MNCS_B	4,146	4,369
MNCS_C	4,236	4,459
MNCS_Cms	4,276	4,499
MNCS_D	4,425	4,657
MNCS_E	4,540	4,793
MNCS_F	4,603	4,880
MNCS_G	4,674	5,002
MNCS_H	4,719	5,097
MNCS_I	4,763	5,221
FTP TARGET	4,780	5,363
PROJECTED TD	4,727	14,685

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 318662

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 318662
	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 318662

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	Action Number: 318662
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CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 6/19/2024.	6/26/2024