

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 NW	
⁴ API Number 30-045-38264	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 321259	⁸ Property Name W LYBROOK UNIT		⁹ Well Number #758H

II. ¹⁰ Surface Location

Ul or lot no. J	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 2611'	North/South Line South	Feet from the 2127'	East/West line East	County San Juan
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¹¹ Bottom Hole Location

Ul or lot no. D	Section 15	Township 23N	Range 9W	Lot Idn	Feet from the 173'	North/South line North	Feet from the 1318'	East/West line West	County San Juan
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 3/9/2022		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 8/4/2021	²² Ready Date 3/9/2022	²³ TD 15734' MD 4719' TVD	²⁴ PBDT 15456' MD 4732' TVD	²⁵ Perforations ~ 5076'-15456' MD ~ 4686'-4732' TVD	²⁶ DHC, MC R-14051	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		365' MD		350 sx - surface
12-1/4"		9-5/8",36#, J-55		2705' MD		644 sx- surface
8-1/2"		5-1/2",17#, P-110		15573' MD		2456 sx- surface
8-1/2"		2-7/8",6.5#, L-80		4959' MD		NA

V. Well Test Data

³¹ Date New Oil 3/12/2022	³² Gas Delivery Date 3/10/2022	³³ Test Date 3/12/2022	³⁴ Test Length 24 hour	³⁵ Tbg. Pressure 289	³⁶ Csg. Pressure 917
³⁷ Choke Size 64/64"	³⁸ Oil 80	³⁹ Water 320	⁴⁰ Gas 438		⁴¹ Test Method F

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION Approved by: PATRICIA MARTINEZ
Printed name: Kayla White	Title: PETROLEUM SPECIALIST
Title: Consultant, Geologist	Approval Date: 3/21/2024
E-mail Address: Kayla.N.White@wsp.com	
Date: 4/22/2022	Phone: 720-384-6452



ENDURING RESOURCES IV LLC

April 12, 2022

Re: W LYBROOK UNIT 758H-30-045-38264

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



Well: W Lybrook Unit No. 758H
Site: W Lybrook Unit
Project: San Juan County, New Mexico NAD83 NM W
Design: Surveys Original Hole
Rig: Ensign 733

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Annotation
419.00	0.70	262.69	418.99	-0.33	-2.54	1.56	MWD surveys
2695.00	24.04	104.74	2649.66	-63.64	303.44	-259.56	9 5/8" Casing @ 2695.00 MD 2649.66 TVD
4781.00	53.42	315.94	4579.82	23.52	540.62	-365.64	FTP MNCS_G top @ 4781.00 MD 4579.82 TVD
15461.00	92.39	313.95	4732.70	7553.06	-6992.56	10285.31	Frac sleeve @ 15461.00 MD 4732.70 TVD
15591.00	93.16	313.58	4726.62	7642.80	-7086.41	10415.13	Survey @ 15591.00 MD 4726.62 TVD
15618.00	93.16	313.58	4725.13	7661.39	-7105.94	10442.08	LTP 330 perp @ 15618 MD 4725 TVD
15734.00	93.16	313.58	4718.74	7741.23	-7189.85	10557.87	Survey Proj. to 15734.00 MD 4718.74 TVD



Azimuths to Grid North
 True North: -0.05°
 Magnetic North: 8.72°

Magnetic Field
 Strength: 49260.1nT
 Dip Angle: 62.73°
 Date: 10/30/2021
 Model: IGRF2020

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

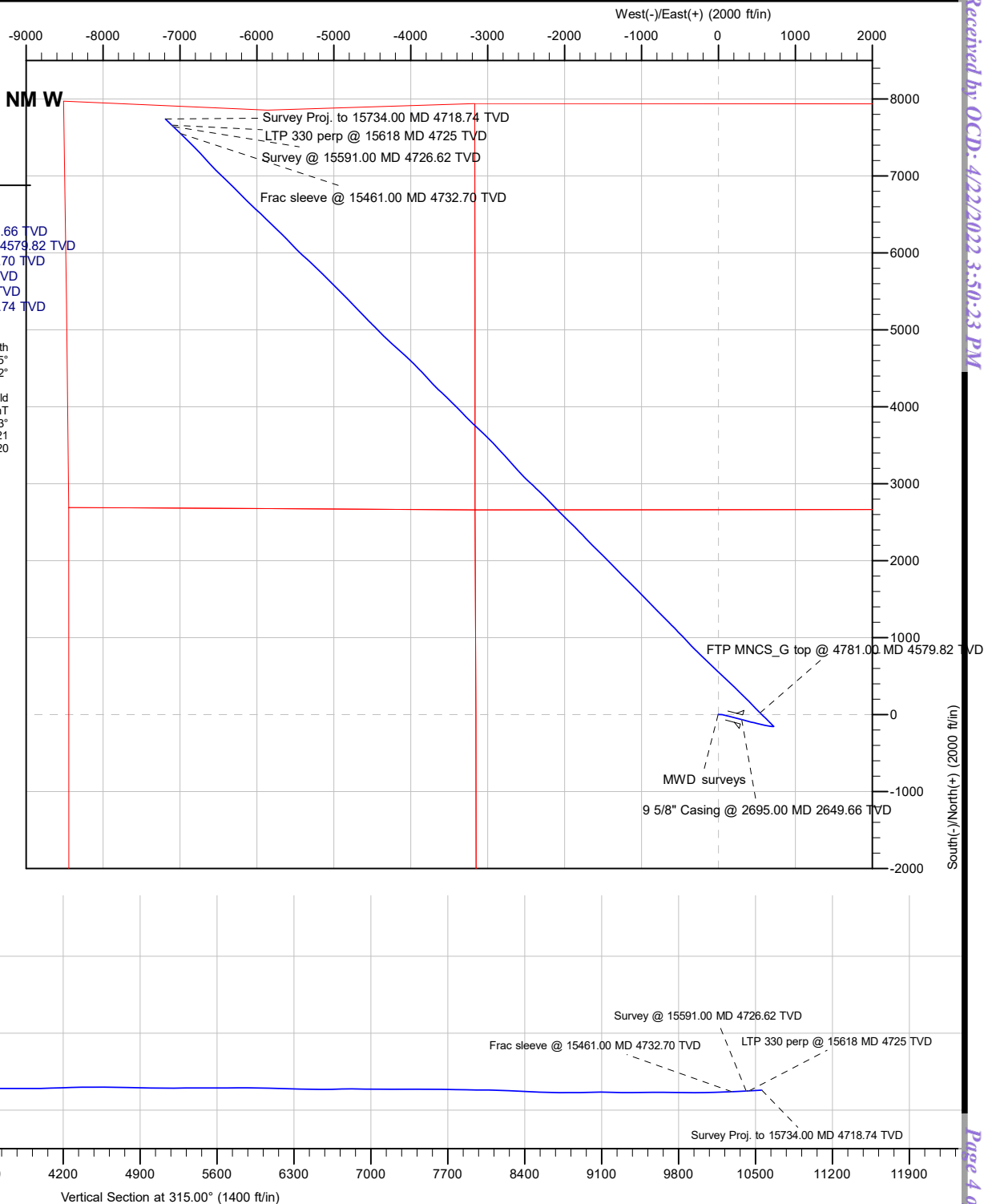
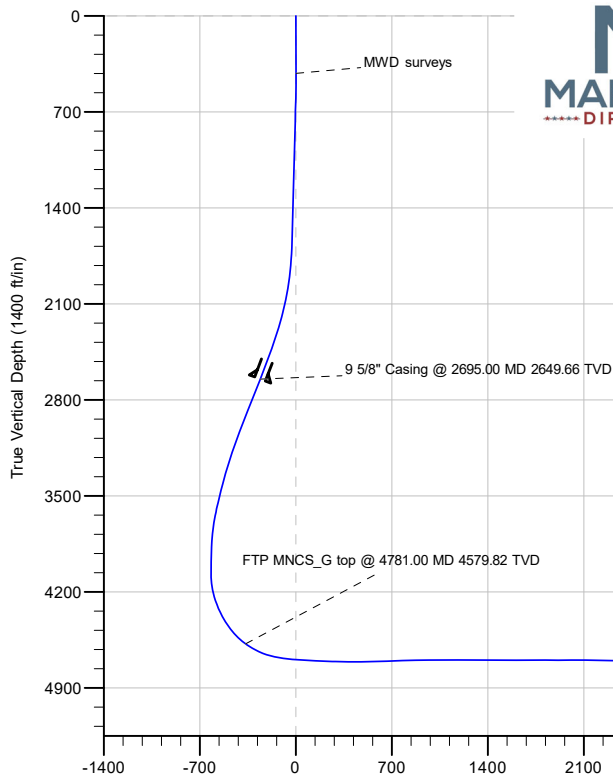
Zone: New Mexico Western Zone

System Datum: Mean Sea Level

Depth Reference: RKB=6719+28 @ 6747.00ft (Ensign 733)

Northing	Easting	Latitude	Longitude
1896598.087	2745780.224	36.212339000	-107.756421000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.723°





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

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	W Lybrook Unit		
Site Position:		Northing:	1,897,416.802 usft
From:	Lat/Long	Easting:	2,747,156.265 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.214585000
		Longitude:	-107.751754000

Well	W Lybrook Unit No. 758H, Surf loc: 2611 FSL 2127 FEL Section 23-T23N-R09W			
Well Position	+N/-S	0.00 ft	Northing:	1,896,598.087 usft
	+E/-W	0.00 ft	Easting:	2,745,780.223 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
Grid Convergence:		0.045 °	Ground Level:	6,719.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/30/2021	8.769	62.734	49,260.11791863

Design	Surveys Original Hole				
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		315.00

Survey Program	Date	12/7/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
419.00	2,605.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,645.00	15,591.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
15,734.00	15,734.00	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	
419.00	0.70	262.69	418.99	-0.33	-2.54	1.56	0.17	0.17	0.00	
MWD surveys										
510.00	0.79	74.60	509.99	-0.23	-2.49	1.59	1.63	0.10	188.91	
601.00	2.20	81.63	600.95	0.19	-0.15	0.24	1.56	1.55	7.73	
692.00	2.37	81.98	691.88	0.71	3.44	-1.93	0.19	0.19	0.38	
784.00	2.33	81.81	783.80	1.24	7.17	-4.20	0.04	-0.04	-0.18	
875.00	2.15	84.71	874.73	1.66	10.70	-6.39	0.23	-0.20	3.19	



Survey Report



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Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

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)
965.00	2.07	84.00	964.67	1.99	14.00	-8.50	0.09	-0.09	-0.79
1,056.00	2.37	87.08	1,055.61	2.25	17.52	-10.79	0.35	0.33	3.38
1,148.00	2.50	90.42	1,147.52	2.34	21.42	-13.50	0.21	0.14	3.63
1,238.00	2.20	93.85	1,237.45	2.21	25.11	-16.19	0.37	-0.33	3.81
1,326.00	2.15	94.73	1,325.38	1.96	28.44	-18.73	0.07	-0.06	1.00
1,416.00	1.93	88.84	1,415.33	1.85	31.64	-21.06	0.34	-0.24	-6.54
1,509.00	1.85	90.33	1,508.28	1.87	34.70	-23.22	0.10	-0.09	1.60
1,601.00	1.85	84.27	1,600.23	2.01	37.67	-25.21	0.21	0.00	-6.59
1,693.00	3.34	96.84	1,692.13	1.84	41.80	-28.26	1.72	1.62	13.66
1,783.00	5.14	99.47	1,781.88	0.86	48.38	-33.60	2.01	2.00	2.92
1,873.00	7.51	102.11	1,871.33	-1.03	58.11	-41.82	2.65	2.63	2.93
1,966.00	10.33	101.76	1,963.19	-4.01	72.22	-53.90	3.03	3.03	-0.38
2,057.00	12.96	103.78	2,052.31	-8.10	90.12	-69.46	2.92	2.89	2.22
2,147.00	15.16	106.59	2,139.61	-13.87	111.21	-88.44	2.56	2.44	3.12
2,238.00	17.58	105.89	2,226.92	-21.03	135.83	-110.92	2.67	2.66	-0.77
2,330.00	20.52	103.87	2,313.87	-28.70	164.85	-136.86	3.27	3.20	-2.20
2,422.00	22.50	103.78	2,399.46	-36.76	197.61	-165.72	2.15	2.15	-0.10
2,513.00	23.38	104.13	2,483.26	-45.31	232.03	-196.11	0.98	0.97	0.38
2,605.00	24.04	104.31	2,567.49	-54.40	267.89	-227.90	0.72	0.72	0.20
2,645.00	24.13	104.57	2,604.01	-58.47	283.70	-241.95	0.35	0.23	0.65
2,695.00	24.04	104.74	2,649.66	-63.64	303.44	-259.56	0.23	-0.18	0.34
9 5/8" Casing @ 2695.00 MD 2649.66 TVD									
2,722.00	23.99	104.83	2,674.32	-66.44	314.06	-269.06	0.23	-0.18	0.34
2,816.00	23.42	104.04	2,760.39	-75.86	350.66	-301.60	0.69	-0.61	-0.84
2,911.00	25.27	105.10	2,846.94	-85.73	388.55	-335.37	2.00	1.95	1.12
3,005.00	25.00	104.75	2,932.04	-96.01	427.13	-369.92	0.33	-0.29	-0.37
3,100.00	24.13	103.60	3,018.44	-105.69	465.42	-403.83	1.04	-0.92	-1.21
3,194.00	22.98	103.25	3,104.61	-114.41	501.96	-435.84	1.23	-1.22	-0.37
3,288.00	21.93	103.52	3,191.48	-122.72	536.89	-466.41	1.12	-1.12	0.29
3,383.00	20.21	101.50	3,280.12	-130.14	570.22	-495.23	1.97	-1.81	-2.13
3,477.00	18.19	102.46	3,368.89	-136.54	600.46	-521.14	2.17	-2.15	1.02
3,572.00	16.44	100.79	3,459.58	-142.26	628.15	-544.76	1.91	-1.84	-1.76
3,666.00	16.48	100.70	3,549.73	-147.23	654.31	-566.77	0.05	0.04	-0.10
3,761.00	13.45	99.30	3,641.50	-151.51	678.46	-586.88	3.21	-3.19	-1.47
3,855.00	9.40	97.01	3,733.62	-154.22	696.88	-601.82	4.33	-4.31	-2.44
3,950.00	5.27	92.71	3,827.82	-155.37	708.94	-611.16	4.38	-4.35	-4.53
4,044.00	2.29	80.23	3,921.61	-155.26	715.11	-615.44	3.27	-3.17	-13.28
4,138.00	1.89	75.65	4,015.54	-154.55	718.46	-617.31	0.46	-0.43	-4.87
4,169.00	1.76	78.56	4,046.53	-154.33	719.42	-617.84	0.51	-0.42	9.39
4,201.00	1.05	20.81	4,078.52	-153.96	720.01	-617.99	4.66	-2.22	-180.47
4,233.00	3.56	324.21	4,110.49	-152.88	719.53	-616.89	9.71	7.84	-176.88
4,264.00	7.34	318.94	4,141.35	-150.61	717.66	-613.96	12.29	12.19	-17.00
4,296.00	10.50	316.65	4,172.96	-146.94	714.32	-609.01	9.94	9.88	-7.16
4,327.00	13.10	316.04	4,203.30	-142.36	709.94	-602.67	8.40	8.39	-1.97



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

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)
4,358.00	15.69	314.10	4,233.32	-136.91	704.49	-594.96	8.50	8.35	-6.26
4,390.00	18.46	312.96	4,263.91	-130.45	697.67	-585.57	8.72	8.66	-3.56
4,421.00	21.09	312.61	4,293.08	-123.33	689.98	-575.09	8.49	8.48	-1.13
4,453.00	23.55	313.49	4,322.68	-115.03	681.10	-562.95	7.76	7.69	2.75
4,484.00	25.62	315.95	4,350.87	-105.95	671.95	-550.05	7.45	6.68	7.94
4,516.00	27.91	317.71	4,379.44	-95.43	662.09	-535.65	7.57	7.16	5.50
4,547.00	30.72	317.35	4,406.47	-84.24	651.85	-520.49	9.08	9.06	-1.16
4,579.00	33.75	316.74	4,433.53	-71.75	640.21	-503.44	9.52	9.47	-1.91
4,610.00	36.61	315.16	4,458.87	-58.92	627.79	-485.58	9.68	9.23	-5.10
4,642.00	39.51	313.22	4,484.06	-45.18	613.64	-465.86	9.80	9.06	-6.06
4,673.00	42.50	311.82	4,507.45	-31.44	598.65	-445.54	10.09	9.65	-4.52
4,705.00	45.62	311.82	4,530.45	-16.61	582.07	-423.33	9.75	9.75	0.00
4,736.00	48.74	313.58	4,551.52	-1.18	565.36	-400.61	10.89	10.06	5.68
4,768.00	51.94	315.60	4,571.94	16.11	547.83	-375.98	11.12	10.00	6.31
4,781.00	53.42	315.94	4,579.82	23.52	540.62	-365.64	11.54	11.35	2.62
FTP MNCS_G top @ 4781.00 MD 4579.82 TVD									
4,799.00	55.46	316.39	4,590.29	34.08	530.48	-351.01	11.54	11.36	2.50
4,830.00	60.21	316.56	4,606.79	53.11	512.41	-324.78	15.33	15.32	0.55
4,862.00	63.11	316.48	4,621.97	73.54	493.04	-296.63	9.07	9.06	-0.25
4,893.00	64.16	316.65	4,635.74	93.71	473.94	-268.86	3.42	3.39	0.55
4,925.00	67.98	316.12	4,648.72	114.88	453.77	-239.63	12.03	11.94	-1.66
4,956.00	71.85	315.60	4,659.36	135.77	433.49	-210.52	12.58	12.48	-1.68
4,988.00	75.10	315.25	4,668.46	157.62	411.96	-179.85	10.21	10.16	-1.09
5,019.00	78.31	315.25	4,675.59	179.04	390.73	-149.68	10.35	10.35	0.00
5,051.00	80.60	315.07	4,681.45	201.35	368.55	-118.23	7.18	7.16	-0.56
5,082.00	82.27	314.81	4,686.06	223.00	346.85	-87.57	5.45	5.39	-0.84
5,177.00	87.06	314.10	4,694.89	289.22	279.35	6.98	5.10	5.04	-0.75
5,272.00	86.44	313.40	4,700.28	354.81	210.84	101.81	0.98	-0.65	-0.74
5,366.00	86.22	313.14	4,706.30	419.11	142.53	195.57	0.36	-0.23	-0.28
5,460.00	89.91	314.37	4,709.47	484.07	74.69	289.48	4.14	3.93	1.31
5,554.00	89.87	313.31	4,709.65	549.18	6.89	383.46	1.13	-0.04	-1.13
5,649.00	89.25	312.70	4,710.38	613.97	-62.58	478.39	0.92	-0.65	-0.64
5,743.00	92.24	314.45	4,709.16	678.75	-130.67	572.34	3.69	3.18	1.86
5,837.00	91.93	314.37	4,705.74	744.49	-197.77	666.28	0.34	-0.33	-0.09
5,950.00	91.36	313.14	4,702.49	822.60	-279.36	779.20	1.20	-0.50	-1.09
6,045.00	91.89	317.27	4,699.80	889.97	-346.25	874.14	4.38	0.56	4.35
6,140.00	91.10	317.35	4,697.32	959.78	-410.64	969.03	0.84	-0.83	0.08
6,234.00	89.52	314.81	4,696.81	1,027.48	-475.83	1,063.00	3.18	-1.68	-2.70
6,329.00	91.10	317.00	4,696.30	1,095.70	-541.93	1,157.98	2.84	1.66	2.31
6,424.00	89.21	314.72	4,696.04	1,163.86	-608.08	1,252.96	3.12	-1.99	-2.40
6,518.00	88.42	313.22	4,697.98	1,229.11	-675.72	1,346.92	1.80	-0.84	-1.60
6,613.00	90.66	316.65	4,698.75	1,296.19	-742.95	1,441.90	4.31	2.36	3.61
6,707.00	90.22	317.09	4,698.03	1,364.79	-807.22	1,535.84	0.66	-0.47	0.47



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
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Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

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)
6,802.00	90.04	316.04	4,697.81	1,433.78	-872.53	1,630.80	1.12	-0.19	-1.11
6,896.00	89.87	314.98	4,697.88	1,500.83	-938.40	1,724.80	1.14	-0.18	-1.13
6,991.00	89.56	313.93	4,698.36	1,567.36	-1,006.21	1,819.79	1.15	-0.33	-1.11
7,085.00	90.31	316.48	4,698.46	1,634.06	-1,072.44	1,913.78	2.83	0.80	2.71
7,180.00	89.82	315.77	4,698.36	1,702.54	-1,138.28	2,008.76	0.91	-0.52	-0.75
7,275.00	88.86	312.70	4,699.45	1,768.80	-1,206.33	2,103.74	3.39	-1.01	-3.23
7,369.00	89.47	316.21	4,700.82	1,834.62	-1,273.41	2,197.71	3.79	0.65	3.73
7,464.00	89.43	316.21	4,701.73	1,903.19	-1,339.15	2,292.68	0.04	-0.04	0.00
7,558.00	89.17	315.33	4,702.88	1,970.54	-1,404.71	2,386.67	0.98	-0.28	-0.94
7,652.00	88.73	315.07	4,704.60	2,037.23	-1,470.94	2,480.65	0.54	-0.47	-0.28
7,747.00	88.42	314.37	4,706.97	2,104.06	-1,538.42	2,575.62	0.81	-0.33	-0.74
7,841.00	87.76	313.66	4,710.10	2,169.33	-1,605.98	2,669.55	1.03	-0.70	-0.76
7,936.00	90.70	316.30	4,711.38	2,236.47	-1,673.16	2,764.52	4.16	3.09	2.78
8,030.00	91.14	317.35	4,709.87	2,305.01	-1,737.47	2,858.46	1.21	0.47	1.12
8,125.00	90.40	315.51	4,708.59	2,373.83	-1,802.94	2,953.42	2.09	-0.78	-1.94
8,220.00	90.00	314.81	4,708.26	2,441.19	-1,869.92	3,048.42	0.85	-0.42	-0.74
8,314.00	89.21	314.54	4,708.91	2,507.28	-1,936.76	3,142.41	0.89	-0.84	-0.29
8,408.00	88.81	313.49	4,710.53	2,572.58	-2,004.35	3,236.38	1.20	-0.43	-1.12
8,503.00	91.76	316.39	4,710.06	2,639.67	-2,071.58	3,331.36	4.35	3.11	3.05
8,597.00	91.41	316.04	4,707.46	2,707.51	-2,136.60	3,425.30	0.53	-0.37	-0.37
8,692.00	91.10	315.42	4,705.38	2,775.52	-2,202.90	3,520.27	0.73	-0.33	-0.65
8,787.00	90.79	314.89	4,703.81	2,842.87	-2,269.88	3,615.26	0.65	-0.33	-0.56
8,881.00	90.40	314.37	4,702.83	2,908.90	-2,336.78	3,709.25	0.69	-0.41	-0.55
8,976.00	89.78	313.22	4,702.68	2,974.64	-2,405.35	3,804.23	1.38	-0.65	-1.21
9,071.00	89.47	312.61	4,703.31	3,039.33	-2,474.92	3,899.16	0.72	-0.33	-0.64
9,166.00	90.92	315.60	4,702.98	3,105.44	-2,543.13	3,994.14	3.50	1.53	3.15
9,260.00	91.71	318.50	4,700.83	3,174.21	-2,607.15	4,088.04	3.20	0.84	3.09
9,354.00	92.11	318.41	4,697.69	3,244.53	-2,669.46	4,181.82	0.44	0.43	-0.10
9,449.00	91.63	318.15	4,694.59	3,315.40	-2,732.64	4,276.61	0.57	-0.51	-0.27
9,544.00	90.79	317.71	4,692.59	3,385.90	-2,796.28	4,371.47	1.00	-0.88	-0.46
9,639.00	90.09	317.27	4,691.86	3,455.93	-2,860.47	4,466.37	0.87	-0.74	-0.46
9,733.00	90.00	316.39	4,691.78	3,524.49	-2,924.78	4,560.32	0.94	-0.10	-0.94
9,827.00	89.12	314.37	4,692.50	3,591.39	-2,990.80	4,654.31	2.34	-0.94	-2.15
9,921.00	89.12	314.01	4,693.95	3,656.90	-3,058.20	4,748.29	0.38	0.00	-0.38
10,016.00	88.24	313.31	4,696.14	3,722.47	-3,126.91	4,843.24	1.18	-0.93	-0.74
10,111.00	88.24	312.78	4,699.05	3,787.28	-3,196.30	4,938.14	0.56	0.00	-0.56
10,205.00	90.35	315.95	4,700.21	3,852.99	-3,263.48	5,032.11	4.05	2.24	3.37
10,299.00	90.13	315.60	4,699.82	3,920.35	-3,329.05	5,126.10	0.44	-0.23	-0.37
10,394.00	90.18	315.25	4,699.56	3,988.03	-3,395.72	5,221.10	0.37	0.05	-0.37
10,488.00	90.18	314.89	4,699.27	4,054.57	-3,462.11	5,315.10	0.38	0.00	-0.38
10,583.00	90.17	313.93	4,698.98	4,121.05	-3,529.97	5,410.09	1.01	-0.01	-1.01
10,678.00	90.04	313.49	4,698.80	4,186.70	-3,598.64	5,505.06	0.48	-0.14	-0.46
10,772.00	89.78	313.05	4,698.95	4,251.13	-3,667.08	5,599.02	0.54	-0.28	-0.47



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

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)
10,866.00	90.57	317.97	4,698.66	4,318.16	-3,732.94	5,692.99	5.30	0.84	5.23
10,960.00	90.22	318.06	4,698.01	4,388.03	-3,795.81	5,786.85	0.38	-0.37	0.10
11,054.00	89.47	316.39	4,698.27	4,457.03	-3,859.65	5,880.78	1.95	-0.80	-1.78
11,149.00	88.73	314.81	4,699.76	4,524.89	-3,926.11	5,975.76	1.84	-0.78	-1.66
11,244.00	88.51	313.75	4,702.05	4,591.20	-3,994.10	6,070.72	1.14	-0.23	-1.12
11,339.00	88.73	313.49	4,704.34	4,656.72	-4,062.85	6,165.67	0.36	0.23	-0.27
11,433.00	88.99	312.61	4,706.21	4,720.87	-4,131.53	6,259.59	0.98	0.28	-0.94
11,528.00	88.46	311.99	4,708.32	4,784.79	-4,201.78	6,354.46	0.86	-0.56	-0.65
11,623.00	88.33	311.38	4,710.98	4,847.95	-4,272.69	6,449.27	0.66	-0.14	-0.64
11,717.00	89.91	314.45	4,712.42	4,911.94	-4,341.52	6,543.18	3.67	1.68	3.27
11,812.00	91.14	315.16	4,711.55	4,978.88	-4,408.92	6,638.17	1.49	1.29	0.75
11,907.00	91.80	314.98	4,709.12	5,046.11	-4,475.99	6,733.14	0.72	0.69	-0.19
12,001.00	89.38	316.56	4,708.15	5,113.46	-4,541.55	6,827.12	3.07	-2.57	1.68
12,095.00	89.47	316.12	4,709.09	5,181.46	-4,606.44	6,921.09	0.48	0.10	-0.47
12,190.00	89.60	316.12	4,709.86	5,249.93	-4,672.28	7,016.07	0.14	0.14	0.00
12,284.00	89.91	315.77	4,710.27	5,317.48	-4,737.65	7,110.05	0.50	0.33	-0.37
12,379.00	90.26	315.51	4,710.12	5,385.41	-4,804.07	7,205.05	0.46	0.37	-0.27
12,473.00	90.04	315.33	4,709.88	5,452.36	-4,870.05	7,299.04	0.30	-0.23	-0.19
12,568.00	89.91	315.25	4,709.92	5,519.87	-4,936.88	7,394.04	0.16	-0.14	-0.08
12,662.00	90.22	314.28	4,709.81	5,586.07	-5,003.62	7,488.04	1.08	0.33	-1.03
12,756.00	88.46	315.16	4,710.90	5,652.20	-5,070.40	7,582.03	2.09	-1.87	0.94
12,851.00	88.86	314.72	4,713.12	5,719.29	-5,137.63	7,677.00	0.63	0.42	-0.46
12,945.00	89.17	313.75	4,714.73	5,784.85	-5,204.97	7,770.98	1.08	0.33	-1.03
13,039.00	89.34	313.58	4,715.96	5,849.75	-5,272.96	7,864.94	0.26	0.18	-0.18
13,134.00	89.82	312.52	4,716.65	5,914.59	-5,342.38	7,959.88	1.22	0.51	-1.12
13,228.00	90.18	311.64	4,716.65	5,977.59	-5,412.15	8,053.76	1.01	0.38	-0.94
13,323.00	87.14	315.60	4,718.87	6,043.09	-5,480.88	8,148.68	5.25	-3.20	4.17
13,417.00	86.97	316.83	4,723.70	6,110.86	-5,545.84	8,242.53	1.32	-0.18	1.31
13,512.00	87.10	315.51	4,728.62	6,179.30	-5,611.54	8,337.38	1.39	0.14	-1.39
13,606.00	87.76	314.80	4,732.83	6,245.88	-5,677.76	8,431.29	1.03	0.70	-0.76
13,700.00	87.76	314.27	4,736.51	6,311.75	-5,744.71	8,525.21	0.56	0.00	-0.56
13,795.00	88.51	314.01	4,739.60	6,377.88	-5,812.85	8,620.15	0.84	0.79	-0.27
13,889.00	89.34	313.58	4,741.36	6,442.92	-5,880.69	8,714.11	0.99	0.88	-0.46
13,984.00	90.40	313.58	4,741.58	6,508.41	-5,949.51	8,809.08	1.12	1.12	0.00
14,078.00	90.97	313.22	4,740.45	6,572.99	-6,017.80	8,903.04	0.72	0.61	-0.38
14,173.00	92.07	312.61	4,737.93	6,637.65	-6,087.35	8,997.94	1.32	1.16	-0.64
14,268.00	89.17	315.33	4,736.91	6,703.59	-6,155.70	9,092.90	4.18	-3.05	2.86
14,362.00	88.55	315.77	4,738.78	6,770.68	-6,221.52	9,186.87	0.81	-0.66	0.47
14,457.00	89.38	315.16	4,740.49	6,838.39	-6,288.13	9,281.85	1.08	0.87	-0.64
14,551.00	89.96	314.19	4,741.03	6,904.48	-6,354.98	9,375.85	1.20	0.62	-1.03
14,646.00	90.84	313.75	4,740.37	6,970.43	-6,423.34	9,470.83	1.04	0.93	-0.46
14,740.00	91.27	312.70	4,738.64	7,034.80	-6,491.83	9,564.77	1.21	0.46	-1.12
14,835.00	89.17	317.79	4,738.28	7,102.23	-6,558.69	9,659.73	5.80	-2.21	5.36
14,930.00	88.73	317.53	4,740.02	7,172.44	-6,622.66	9,754.61	0.54	-0.46	-0.27



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

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)	
15,025.00	89.34	317.00	4,741.62	7,242.21	-6,687.12	9,849.52	0.85	0.64	-0.56	
15,119.00	90.26	316.39	4,741.94	7,310.61	-6,751.59	9,943.48	1.17	0.98	-0.65	
15,214.00	91.14	315.60	4,740.78	7,378.94	-6,817.58	10,038.46	1.24	0.93	-0.83	
15,308.00	91.71	315.25	4,738.45	7,445.87	-6,883.54	10,132.42	0.71	0.61	-0.37	
15,402.00	92.33	314.28	4,735.13	7,512.03	-6,950.23	10,226.36	1.22	0.66	-1.03	
15,461.00	92.39	313.95	4,732.70	7,553.06	-6,992.56	10,285.31	0.57	0.09	-0.56	
Frac sleeve @ 15461.00 MD 4732.70 TVD										
15,497.00	92.42	313.75	4,731.20	7,577.98	-7,018.49	10,321.27	0.57	0.09	-0.56	
15,591.00	93.16	313.58	4,726.62	7,642.80	-7,086.41	10,415.13	0.81	0.79	-0.18	
Survey @ 15591.00 MD 4726.62 TVD										
15,618.00	93.16	313.58	4,725.13	7,661.39	-7,105.94	10,442.08	0.00	0.00	0.00	
LTP 330 perp @ 15618 MD 4725 TVD										
15,734.00	93.16	313.58	4,718.74	7,741.23	-7,189.85	10,557.87	0.00	0.00	0.00	
Survey Proj. to 15734.00 MD 4718.74 TVD										

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,695.00	2,649.66		9-5/8	12-1/4

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
419.00	418.99	-0.33	-2.54	MWD surveys	
2,695.00	2,649.66	-63.64	303.44	9 5/8" Casing @ 2695.00 MD 2649.66 TVD	
4,781.00	4,579.82	23.52	540.62	FTP MNCS_G top @ 4781.00 MD 4579.82 TVD	
15,461.00	4,732.70	7,553.06	-6,992.56	Frac sleeve @ 15461.00 MD 4732.70 TVD	
15,591.00	4,726.62	7,642.80	-7,086.41	Survey @ 15591.00 MD 4726.62 TVD	
15,618.00	4,725.13	7,661.39	-7,105.94	LTP 330 perp @ 15618 MD 4725 TVD	
15,734.00	4,718.74	7,741.23	-7,189.85	Survey Proj. to 15734.00 MD 4718.74 TVD	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

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	W Lybrook Unit		
Site Position:		Northing:	1,897,416.802 usft
From:	Lat/Long	Easting:	2,747,156.265 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.214585000
		Longitude:	-107.751754000
		Grid Convergence:	0.048 °

Well	W Lybrook Unit No. 758H, Surf loc: 2611 FSL 2127 FEL Section 23-T23N-R09W		
Well Position	+N/-S	0.00 ft	Northing: 1,896,598.087 usft
	+E/-W	0.00 ft	Easting: 2,745,780.223 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.212339000
		Longitude:	-107.756421000
		Ground Level:	6,719.00 ft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	10/30/2021	8.769
			Dip Angle (°)
			62.734
			Field Strength (nT)
			49,260.11791863

Design	Surveys Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°)
			315.00

Survey Program	Date	12/7/2021		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
419.00	2,605.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard
2,645.00	15,591.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
15,734.00	15,734.00	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	1,896,598.087	2,745,780.223	36.212339000	-107.756421000
419.00	0.70	262.69	418.99	-0.33	-2.54	1,896,597.761	2,745,777.685	36.212338111	-107.756429606
MWD surveys									
510.00	0.79	74.60	509.99	-0.23	-2.49	1,896,597.857	2,745,777.738	36.212338374	-107.756429425
601.00	2.20	81.63	600.95	0.19	-0.15	1,896,598.278	2,745,780.071	36.212339525	-107.756421515
692.00	2.37	81.98	691.88	0.71	3.44	1,896,598.795	2,745,783.662	36.212340937	-107.756409340
784.00	2.33	81.81	783.80	1.24	7.17	1,896,599.327	2,745,787.397	36.212342390	-107.756396678
875.00	2.15	84.71	874.73	1.66	10.70	1,896,599.747	2,745,790.927	36.212343538	-107.756384709
965.00	2.07	84.00	964.67	1.99	14.00	1,896,600.073	2,745,794.225	36.212344426	-107.756373530
1,056.00	2.37	87.08	1,055.61	2.25	17.52	1,896,600.341	2,745,797.739	36.212345153	-107.756361618



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,148.00	2.50	90.42	1,147.52	2.34	21.42	1,896,600.423	2,745,801.645	36.212345370	-107.756348376
1,238.00	2.20	93.85	1,237.45	2.21	25.11	1,896,600.292	2,745,805.331	36.212345004	-107.756335880
1,326.00	2.15	94.73	1,325.38	1.96	28.44	1,896,600.043	2,745,808.661	36.212344311	-107.756324591
1,416.00	1.93	88.84	1,415.33	1.85	31.64	1,896,599.934	2,745,811.859	36.212344006	-107.756313752
1,509.00	1.85	90.33	1,508.28	1.87	34.70	1,896,599.957	2,745,814.926	36.212344063	-107.756303355
1,601.00	1.85	84.27	1,600.23	2.01	37.67	1,896,600.097	2,745,817.889	36.212344440	-107.756293312
1,693.00	3.34	96.84	1,692.13	1.84	41.80	1,896,599.926	2,745,822.027	36.212343962	-107.756279282
1,783.00	5.14	99.47	1,781.88	0.86	48.38	1,896,598.951	2,745,828.608	36.212341267	-107.756256979
1,873.00	7.51	102.11	1,871.33	-1.03	58.11	1,896,597.053	2,745,838.336	36.212336034	-107.756224005
1,966.00	10.33	101.76	1,963.19	-4.01	72.22	1,896,594.078	2,745,852.444	36.212327830	-107.756176187
2,057.00	12.96	103.78	2,052.31	-8.10	90.12	1,896,589.984	2,745,870.346	36.212316544	-107.756115513
2,147.00	15.16	106.59	2,139.61	-13.87	111.21	1,896,584.219	2,745,891.429	36.212300661	-107.756044060
2,238.00	17.58	105.89	2,226.92	-21.03	135.83	1,896,577.058	2,745,916.054	36.212280935	-107.755960603
2,330.00	20.52	103.87	2,313.87	-28.70	164.85	1,896,569.387	2,745,945.077	36.212259798	-107.755862236
2,422.00	22.50	103.78	2,399.46	-36.76	197.61	1,896,561.328	2,745,977.832	36.212237587	-107.755751223
2,513.00	23.38	104.13	2,483.26	-45.31	232.03	1,896,552.772	2,746,012.253	36.212214009	-107.755634562
2,605.00	24.04	104.31	2,567.49	-54.40	267.89	1,896,543.684	2,746,048.113	36.212188964	-107.755513025
2,645.00	24.13	104.57	2,604.01	-58.47	283.70	1,896,539.614	2,746,063.920	36.212177747	-107.755459449
2,695.00	24.04	104.74	2,649.66	-63.64	303.44	1,896,534.452	2,746,083.661	36.212163523	-107.755392545
9 5/8" Casing @ 2695.00 MD 2649.66 TVD									
2,722.00	23.99	104.83	2,674.32	-66.44	314.06	1,896,531.648	2,746,094.285	36.212155797	-107.755356537
2,816.00	23.42	104.04	2,760.39	-75.86	350.66	1,896,522.225	2,746,130.881	36.212129830	-107.755232506
2,911.00	25.27	105.10	2,846.94	-85.73	388.55	1,896,512.361	2,746,168.777	36.212102650	-107.755104069
3,005.00	25.00	104.75	2,932.04	-96.01	427.13	1,896,502.078	2,746,207.356	36.212074314	-107.754973317
3,100.00	24.13	103.60	3,018.44	-105.69	465.42	1,896,492.400	2,746,245.644	36.212047645	-107.754843552
3,194.00	22.98	103.25	3,104.61	-114.41	501.96	1,896,483.676	2,746,282.181	36.212023598	-107.754719719
3,288.00	21.93	103.52	3,191.48	-122.72	536.89	1,896,475.367	2,746,317.110	36.212000693	-107.754601337
3,383.00	20.21	101.50	3,280.12	-130.14	570.22	1,896,467.947	2,746,350.441	36.211980236	-107.754488368
3,477.00	18.19	102.46	3,368.89	-136.54	600.46	1,896,461.544	2,746,380.681	36.211962578	-107.754385874
3,572.00	16.44	100.79	3,459.58	-142.26	628.15	1,896,455.828	2,746,408.368	36.211946813	-107.754292037
3,666.00	16.48	100.70	3,549.73	-147.23	654.31	1,896,450.862	2,746,434.535	36.211933113	-107.754203346
3,761.00	13.45	99.30	3,641.50	-151.51	678.46	1,896,446.574	2,746,458.685	36.211921278	-107.754121494
3,855.00	9.40	97.01	3,733.62	-154.22	696.88	1,896,443.869	2,746,477.100	36.211913807	-107.754059076
3,950.00	5.27	92.71	3,827.82	-155.37	708.94	1,896,442.715	2,746,489.163	36.211910611	-107.754018186
4,044.00	2.29	80.23	3,921.61	-155.26	715.11	1,896,442.830	2,746,495.327	36.211910912	-107.753997290
4,138.00	1.89	75.65	4,015.54	-154.55	718.46	1,896,443.533	2,746,498.680	36.211912835	-107.753985923
4,169.00	1.76	78.56	4,046.53	-154.33	719.42	1,896,443.754	2,746,499.641	36.211913441	-107.753982662
4,201.00	1.05	20.81	4,078.52	-153.96	720.01	1,896,444.125	2,746,500.227	36.211914460	-107.753980675
4,233.00	3.56	324.21	4,110.49	-152.88	719.53	1,896,445.206	2,746,499.750	36.211917429	-107.753982289
4,264.00	7.34	318.94	4,141.35	-150.61	717.66	1,896,447.480	2,746,497.886	36.211923682	-107.753988602
4,296.00	10.50	316.65	4,172.96	-146.94	714.32	1,896,451.143	2,746,494.541	36.211933750	-107.753999931
4,327.00	13.10	316.04	4,203.30	-142.36	709.94	1,896,455.727	2,746,490.163	36.211946352	-107.754014761
4,358.00	15.69	314.10	4,233.32	-136.91	704.49	1,896,461.173	2,746,484.713	36.211961327	-107.754033220
4,390.00	18.46	312.96	4,263.91	-130.45	697.67	1,896,467.638	2,746,477.897	36.211979102	-107.754056309
4,421.00	21.09	312.61	4,293.08	-123.33	689.98	1,896,474.760	2,746,470.199	36.211998684	-107.754082384
4,453.00	23.55	313.49	4,322.68	-115.03	681.10	1,896,483.059	2,746,461.322	36.212021501	-107.754112452
4,484.00	25.62	315.95	4,350.87	-105.95	671.95	1,896,492.139	2,746,452.168	36.212046467	-107.754143459
4,516.00	27.91	317.71	4,379.44	-95.43	662.09	1,896,502.654	2,746,442.317	36.212075373	-107.754176824
4,547.00	30.72	317.35	4,406.47	-84.24	651.85	1,896,513.847	2,746,432.068	36.212106144	-107.754211535
4,579.00	33.75	316.74	4,433.53	-71.75	640.21	1,896,526.335	2,746,420.436	36.212140476	-107.754250933
4,610.00	36.61	315.16	4,458.87	-58.92	627.79	1,896,539.164	2,746,408.014	36.212175746	-107.754293007
4,642.00	39.51	313.22	4,484.06	-45.18	613.64	1,896,552.904	2,746,393.864	36.212213523	-107.754340935
4,673.00	42.50	311.82	4,507.45	-31.44	598.65	1,896,566.643	2,746,378.870	36.212251298	-107.754391725
4,705.00	45.62	311.82	4,530.45	-16.61	582.07	1,896,581.479	2,746,362.288	36.212292092	-107.754447895
4,736.00	48.74	313.58	4,551.52	-1.18	565.36	1,896,596.903	2,746,345.587	36.212334500	-107.754504469



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,768.00	51.94	315.60	4,571.94	16.11	547.83	1,896,614.200	2,746,328.054	36.212382057	-107.754563856
4,781.00	53.42	315.94	4,579.82	23.52	540.62	1,896,621.608	2,746,320.843	36.212402423	-107.754588279
FTP MNCS_G top @ 4781.00 MD 4579.82 TVD									
4,799.00	55.46	316.39	4,590.29	34.08	530.48	1,896,632.170	2,746,310.703	36.212431461	-107.754622625
4,830.00	60.21	316.56	4,606.79	53.11	512.41	1,896,651.193	2,746,292.637	36.212483758	-107.754683815
4,862.00	63.11	316.48	4,621.97	73.54	493.04	1,896,671.627	2,746,273.259	36.212539936	-107.754749450
4,893.00	64.16	316.65	4,635.74	93.71	473.94	1,896,691.796	2,746,254.162	36.212595385	-107.754814129
4,925.00	67.98	316.12	4,648.72	114.88	453.77	1,896,712.967	2,746,233.988	36.212653588	-107.754882459
4,956.00	71.85	315.60	4,659.36	135.77	433.49	1,896,733.856	2,746,213.715	36.212711017	-107.754951126
4,988.00	75.10	315.25	4,668.46	157.62	411.96	1,896,755.705	2,746,192.186	36.212771087	-107.755024048
5,019.00	78.31	315.25	4,675.59	179.04	390.73	1,896,777.128	2,746,170.950	36.212829985	-107.755095980
5,051.00	80.60	315.07	4,681.45	201.35	368.55	1,896,799.434	2,746,148.768	36.212891310	-107.755171114
5,082.00	82.27	314.81	4,686.06	223.00	346.85	1,896,821.086	2,746,127.070	36.212950838	-107.755244609
5,177.00	87.06	314.10	4,694.89	289.22	279.35	1,896,887.309	2,746,059.572	36.213132909	-107.755473245
5,272.00	86.44	313.40	4,700.28	354.81	210.84	1,896,952.897	2,745,991.058	36.213313235	-107.755705323
5,366.00	86.22	313.14	4,706.30	419.11	142.53	1,897,017.195	2,745,922.755	36.213490020	-107.755936696
5,460.00	89.91	314.37	4,709.47	484.07	74.69	1,897,082.155	2,745,854.911	36.213668617	-107.756166509
5,554.00	89.87	313.31	4,709.65	549.18	6.89	1,897,147.262	2,745,787.112	36.213847622	-107.756396170
5,649.00	89.25	312.70	4,710.38	613.97	-62.58	1,897,212.056	2,745,717.642	36.214025767	-107.756631499
5,743.00	92.24	314.45	4,709.16	678.75	-130.67	1,897,276.834	2,745,649.557	36.214203867	-107.756862131
5,837.00	91.93	314.37	4,705.74	744.49	-197.77	1,897,342.571	2,745,582.453	36.214384596	-107.757089439
5,950.00	91.36	313.14	4,702.49	822.60	-279.36	1,897,420.684	2,745,500.868	36.214599358	-107.757365804
6,045.00	91.89	317.27	4,699.80	889.97	-346.25	1,897,488.057	2,745,433.976	36.214784581	-107.757592394
6,140.00	91.10	317.35	4,697.32	959.78	-410.64	1,897,557.861	2,745,369.585	36.214976476	-107.757810494
6,234.00	89.52	314.81	4,696.81	1,027.48	-475.83	1,897,625.561	2,745,304.390	36.215162594	-107.758031329
6,329.00	91.10	317.00	4,696.30	1,095.70	-541.93	1,897,693.781	2,745,238.291	36.215350142	-107.758255227
6,424.00	89.21	314.72	4,696.04	1,163.86	-608.08	1,897,761.949	2,745,172.140	36.215537546	-107.758479305
6,518.00	88.42	313.22	4,697.98	1,229.11	-675.72	1,897,827.195	2,745,104.505	36.215716926	-107.758708421
6,613.00	90.66	316.65	4,698.75	1,296.19	-742.95	1,897,894.278	2,745,037.271	36.215901351	-107.758936175
6,707.00	90.22	317.09	4,698.03	1,364.79	-807.22	1,897,962.877	2,744,973.009	36.216089934	-107.759153848
6,802.00	90.04	316.04	4,697.81	1,433.78	-872.53	1,898,031.860	2,744,907.695	36.216279575	-107.759375089
6,896.00	89.87	314.98	4,697.88	1,500.83	-938.40	1,898,098.916	2,744,841.822	36.216463922	-107.759598230
6,991.00	89.56	313.93	4,698.36	1,567.36	-1,006.21	1,898,165.447	2,744,774.013	36.216646830	-107.759827938
7,085.00	90.31	316.48	4,698.46	1,634.06	-1,072.44	1,898,232.146	2,744,707.790	36.216830197	-107.760052273
7,180.00	89.82	315.77	4,698.36	1,702.54	-1,138.28	1,898,300.627	2,744,641.947	36.217018455	-107.760275311
7,275.00	88.86	312.70	4,699.45	1,768.80	-1,206.33	1,898,366.886	2,744,573.895	36.217200616	-107.760505847
7,369.00	89.47	316.21	4,700.82	1,834.62	-1,273.41	1,898,432.701	2,744,506.816	36.217381555	-107.760733087
7,464.00	89.43	316.21	4,701.73	1,903.19	-1,339.15	1,898,501.277	2,744,441.077	36.217570073	-107.760955775
7,558.00	89.17	315.33	4,702.88	1,970.54	-1,404.71	1,898,568.626	2,744,375.514	36.217755222	-107.761177873
7,652.00	88.73	315.07	4,704.60	2,037.23	-1,470.94	1,898,635.314	2,744,309.290	36.217938556	-107.761402215
7,747.00	88.42	314.37	4,706.97	2,104.06	-1,538.42	1,898,702.139	2,744,241.809	36.218122267	-107.761630819
7,841.00	87.76	313.66	4,710.10	2,169.33	-1,605.98	1,898,767.417	2,744,174.247	36.218301730	-107.761859703
7,936.00	90.70	316.30	4,711.38	2,236.47	-1,673.16	1,898,834.550	2,744,107.068	36.218486285	-107.762087283
8,030.00	91.14	317.35	4,709.87	2,305.01	-1,737.47	1,898,903.091	2,744,042.760	36.218674704	-107.762305129
8,125.00	90.40	315.51	4,708.59	2,373.83	-1,802.94	1,898,971.912	2,743,977.292	36.218863892	-107.762526909
8,220.00	90.00	314.81	4,708.26	2,441.19	-1,869.92	1,899,039.273	2,743,910.305	36.219049074	-107.762753839
8,314.00	89.21	314.54	4,708.91	2,507.28	-1,936.76	1,899,105.361	2,743,843.464	36.219230756	-107.762980284
8,408.00	88.81	313.49	4,710.53	2,572.58	-2,004.35	1,899,170.665	2,743,775.874	36.219410289	-107.763209266
8,503.00	91.76	316.39	4,710.06	2,639.67	-2,071.58	1,899,237.754	2,743,708.644	36.219594722	-107.763437027
8,597.00	91.41	316.04	4,707.46	2,707.51	-2,136.60	1,899,305.591	2,743,643.626	36.219781203	-107.763657290
8,692.00	91.10	315.42	4,705.38	2,775.52	-2,202.90	1,899,373.599	2,743,577.328	36.219968159	-107.763881888
8,787.00	90.79	314.89	4,703.81	2,842.87	-2,269.88	1,899,440.946	2,743,510.345	36.220153299	-107.764108816
8,881.00	90.40	314.37	4,702.83	2,908.90	-2,336.78	1,899,506.980	2,743,443.453	36.220334830	-107.764335437
8,976.00	89.78	313.22	4,702.68	2,974.64	-2,405.35	1,899,572.726	2,743,374.882	36.220515574	-107.764567753
9,071.00	89.47	312.61	4,703.31	3,039.33	-2,474.92	1,899,637.410	2,743,305.309	36.220693404	-107.764803468



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,166.00	90.92	315.60	4,702.98	3,105.44	-2,543.13	1,899,703.518	2,743,237.103	36.220875141	-107.765034548
9,260.00	91.71	318.50	4,700.83	3,174.21	-2,607.15	1,899,772.295	2,743,173.079	36.221064201	-107.765251443
9,354.00	92.11	318.41	4,697.69	3,244.53	-2,669.46	1,899,842.608	2,743,110.772	36.221257478	-107.765462514
9,449.00	91.63	318.15	4,694.59	3,315.40	-2,732.64	1,899,913.479	2,743,047.585	36.221452287	-107.765676571
9,544.00	90.79	317.71	4,692.59	3,385.90	-2,796.28	1,899,983.983	2,742,983.946	36.221646091	-107.765892160
9,639.00	90.09	317.27	4,691.86	3,455.93	-2,860.47	1,900,054.010	2,742,919.755	36.221838584	-107.766109622
9,733.00	90.00	316.39	4,691.78	3,524.49	-2,924.78	1,900,122.566	2,742,855.445	36.222027036	-107.766327496
9,827.00	89.12	314.37	4,692.50	3,591.39	-2,990.80	1,900,189.468	2,742,789.425	36.222210945	-107.766551168
9,921.00	89.12	314.01	4,693.95	3,656.90	-3,058.20	1,900,254.981	2,742,722.032	36.222391045	-107.766779500
10,016.00	88.24	313.31	4,696.14	3,722.47	-3,126.91	1,900,320.549	2,742,653.324	36.222571293	-107.767012292
10,111.00	88.24	312.78	4,699.05	3,787.28	-3,196.30	1,900,385.362	2,742,583.930	36.222749472	-107.767247415
10,205.00	90.35	315.95	4,700.21	3,852.99	-3,263.48	1,900,451.073	2,742,516.747	36.222930110	-107.767475037
10,299.00	90.13	315.60	4,699.82	3,920.35	-3,329.05	1,900,518.433	2,742,451.185	36.223115277	-107.767697162
10,394.00	90.18	315.25	4,699.56	3,988.03	-3,395.72	1,900,586.104	2,742,384.510	36.223301299	-107.767923060
10,488.00	90.18	314.89	4,699.27	4,054.57	-3,462.11	1,900,652.653	2,742,318.124	36.223484237	-107.768147983
10,583.00	90.17	313.93	4,698.98	4,121.05	-3,529.97	1,900,719.131	2,742,250.262	36.223666985	-107.768377911
10,678.00	90.04	313.49	4,698.80	4,186.70	-3,598.64	1,900,784.777	2,742,181.592	36.223847445	-107.768610582
10,772.00	89.78	313.05	4,698.95	4,251.13	-3,667.08	1,900,849.207	2,742,113.148	36.224024567	-107.768842490
10,866.00	90.57	317.97	4,698.66	4,318.16	-3,732.94	1,900,916.243	2,742,047.296	36.224208840	-107.769065607
10,960.00	90.22	318.06	4,698.01	4,388.03	-3,795.81	1,900,986.113	2,741,984.417	36.224400894	-107.769278635
11,054.00	89.47	316.39	4,698.27	4,457.03	-3,859.65	1,901,055.108	2,741,920.583	36.224590544	-107.769494907
11,149.00	88.73	314.81	4,699.76	4,524.89	-3,926.11	1,901,122.972	2,741,854.126	36.224777092	-107.769720075
11,244.00	88.51	313.75	4,702.05	4,591.20	-3,994.10	1,901,189.277	2,741,786.133	36.224959362	-107.769950455
11,339.00	88.73	313.49	4,704.34	4,656.72	-4,062.85	1,901,254.796	2,741,717.380	36.225139470	-107.770183415
11,433.00	88.99	312.61	4,706.21	4,720.87	-4,131.53	1,901,318.950	2,741,648.703	36.225315831	-107.770416121
11,528.00	88.46	311.99	4,708.32	4,784.79	-4,201.78	1,901,382.870	2,741,578.456	36.225491549	-107.770654151
11,623.00	88.33	311.38	4,710.98	4,847.95	-4,272.69	1,901,446.023	2,741,507.537	36.225665162	-107.770894462
11,717.00	89.91	314.45	4,712.42	4,911.94	-4,341.52	1,901,510.012	2,741,438.714	36.225841066	-107.771127667
11,812.00	91.14	315.16	4,711.55	4,978.88	-4,408.92	1,901,576.953	2,741,371.315	36.226025079	-107.771356038
11,907.00	91.80	314.98	4,709.12	5,046.11	-4,475.99	1,901,644.188	2,741,304.245	36.226209896	-107.771583295
12,001.00	89.38	316.56	4,708.15	5,113.46	-4,541.55	1,901,711.532	2,741,238.687	36.226395012	-107.771805426
12,095.00	89.47	316.12	4,709.09	5,181.46	-4,606.44	1,901,779.533	2,741,173.795	36.226581928	-107.772025297
12,190.00	89.60	316.12	4,709.86	5,249.93	-4,672.28	1,901,848.006	2,741,107.948	36.226770144	-107.772248407
12,284.00	89.91	315.77	4,710.27	5,317.48	-4,737.65	1,901,915.560	2,741,042.586	36.226955835	-107.772469875
12,379.00	90.26	315.51	4,710.12	5,385.41	-4,804.07	1,901,983.481	2,740,976.166	36.227142534	-107.772694932
12,473.00	90.04	315.33	4,709.88	5,452.36	-4,870.05	1,902,050.434	2,740,910.187	36.227326573	-107.772918495
12,568.00	89.91	315.25	4,709.92	5,519.87	-4,936.88	1,902,117.948	2,740,843.353	36.227512154	-107.773144958
12,662.00	90.22	314.28	4,709.81	5,586.07	-5,003.62	1,902,184.142	2,740,776.614	36.227694108	-107.773371102
12,756.00	88.46	315.16	4,710.90	5,652.20	-5,070.40	1,902,250.276	2,740,709.830	36.227875899	-107.773597402
12,851.00	88.86	314.72	4,713.12	5,719.29	-5,137.63	1,902,317.362	2,740,642.603	36.228060304	-107.773825200
12,945.00	89.17	313.75	4,714.73	5,784.85	-5,204.97	1,902,382.926	2,740,575.265	36.228240527	-107.774053382
13,039.00	89.34	313.58	4,715.96	5,849.75	-5,272.96	1,902,447.822	2,740,507.272	36.228418915	-107.774283784
13,134.00	89.82	312.52	4,716.65	5,914.59	-5,342.38	1,902,512.670	2,740,437.853	36.228597173	-107.774519023
13,228.00	90.18	311.64	4,716.65	5,977.59	-5,412.15	1,902,575.664	2,740,368.086	36.228770342	-107.774755446
13,323.00	87.14	315.60	4,718.87	6,043.09	-5,480.88	1,902,641.162	2,740,299.352	36.228950383	-107.774988364
13,417.00	86.97	316.83	4,723.70	6,110.86	-5,545.84	1,902,708.933	2,740,234.396	36.229136664	-107.775208470
13,512.00	87.10	315.51	4,728.62	6,179.30	-5,611.54	1,902,777.373	2,740,168.696	36.229324781	-107.775431096
13,606.00	87.76	314.80	4,732.83	6,245.88	-5,677.76	1,902,843.952	2,740,102.475	36.229507789	-107.775655492
13,700.00	87.76	314.27	4,736.51	6,311.75	-5,744.71	1,902,909.828	2,740,035.522	36.229688865	-107.775882377
13,795.00	88.51	314.01	4,739.60	6,377.88	-5,812.85	1,902,975.952	2,739,967.383	36.229870623	-107.776113281
13,889.00	89.34	313.58	4,741.36	6,442.92	-5,880.69	1,903,040.995	2,739,899.544	36.230049412	-107.776343169
13,984.00	90.40	313.58	4,741.58	6,508.41	-5,949.51	1,903,106.483	2,739,830.726	36.230229426	-107.776576379
14,078.00	90.97	313.22	4,740.45	6,572.99	-6,017.80	1,903,171.064	2,739,762.434	36.230406946	-107.776807810
14,173.00	92.07	312.61	4,737.93	6,637.65	-6,087.35	1,903,235.727	2,739,692.885	36.230584691	-107.777043500
14,268.00	89.17	315.33	4,736.91	6,703.59	-6,155.70	1,903,301.667	2,739,624.532	36.230765942	-107.777275138



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 758H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
Well:	W Lybrook Unit No. 758H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
14,362.00	88.55	315.77	4,738.78	6,770.68	-6,221.52	1,903,368.756	2,739,558.718	36.230950346	-107.777498161	
14,457.00	89.38	315.16	4,740.49	6,838.39	-6,288.13	1,903,436.462	2,739,492.103	36.231136446	-107.777723905	
14,551.00	89.96	314.19	4,741.03	6,904.48	-6,354.98	1,903,502.550	2,739,425.261	36.231318099	-107.777950419	
14,646.00	90.84	313.75	4,740.37	6,970.43	-6,423.34	1,903,568.504	2,739,356.892	36.231499388	-107.778182113	
14,740.00	91.27	312.70	4,738.64	7,034.80	-6,491.83	1,903,632.869	2,739,288.410	36.231676312	-107.778414195	
14,835.00	89.17	317.79	4,738.28	7,102.23	-6,558.69	1,903,700.305	2,739,221.549	36.231861667	-107.778640774	
14,930.00	88.73	317.53	4,740.02	7,172.44	-6,622.66	1,903,770.513	2,739,157.575	36.232054634	-107.778857561	
15,025.00	89.34	317.00	4,741.62	7,242.21	-6,687.12	1,903,840.280	2,739,093.117	36.232246389	-107.779075990	
15,119.00	90.26	316.39	4,741.94	7,310.61	-6,751.59	1,903,908.683	2,739,028.645	36.232434398	-107.779294469	
15,214.00	91.14	315.60	4,740.78	7,378.94	-6,817.58	1,903,977.008	2,738,962.653	36.232622194	-107.779518106	
15,308.00	91.71	315.25	4,738.45	7,445.87	-6,883.54	1,904,043.946	2,738,896.701	36.232806179	-107.779741611	
15,402.00	92.33	314.28	4,735.13	7,512.03	-6,950.23	1,904,110.099	2,738,830.004	36.232988007	-107.779967644	
15,461.00	92.39	313.95	4,732.70	7,553.06	-6,992.56	1,904,151.134	2,738,787.681	36.233100798	-107.780111075	
Frac sleeve @ 15461.00 MD 4732.70 TVD										
15,497.00	92.42	313.75	4,731.20	7,577.98	-7,018.49	1,904,176.052	2,738,761.743	36.233169289	-107.780198981	
15,591.00	93.16	313.58	4,726.62	7,642.80	-7,086.41	1,904,240.876	2,738,693.825	36.233347468	-107.780429156	
Survey @ 15591.00 MD 4726.62 TVD										
15,618.00	93.16	313.58	4,725.13	7,661.39	-7,105.94	1,904,259.461	2,738,674.296	36.233398551	-107.780495343	
LTP 330 perp @ 15618 MD 4725 TVD										
15,734.00	93.16	313.58	4,718.74	7,741.23	-7,189.85	1,904,339.305	2,738,590.392	36.233618017	-107.780779699	
Survey Proj. to 15734.00 MD 4718.74 TVD										

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,695.00	2,649.66		9-5/8	12-1/4

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
419.00	418.99	-0.33	-2.54	MWD surveys
2,695.00	2,649.66	-63.64	303.44	9 5/8" Casing @ 2695.00 MD 2649.66 TVD
4,781.00	4,579.82	23.52	540.62	FTP MNCS_G top @ 4781.00 MD 4579.82 TVD
15,461.00	4,732.70	7,553.06	-6,992.56	Frac sleeve @ 15461.00 MD 4732.70 TVD
15,591.00	4,726.62	7,642.80	-7,086.41	Survey @ 15591.00 MD 4726.62 TVD
15,618.00	4,725.13	7,661.39	-7,105.94	LTP 330 perp @ 15618 MD 4725 TVD
15,734.00	4,718.74	7,741.23	-7,189.85	Survey Proj. to 15734.00 MD 4718.74 TVD

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

N0-G-1312-1857

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well☐ Gas Well☐ Other

7. If Unit of CA/Agreement, Name and/or No.

NMNM135216A

8. Well Name and No.

W Lybrook Unit 758H

2. Name of Operator

Enduring Resources IV LLC

9. API Well No.

30-045-38264

3a. Address

200 Energy Court Farmington NM 87401

3b. Phone No. (include area code)

505-636-9743

10. Field and Pool or Exploratory Area

Mancos

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 2611' FSL & 2127' FEL, Sec 23 T23N, R9W**BHL: 173' FNL & 1318' FWL, Sec 15 T23N, R9W**

11. Country or Parish, State

San Juan, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>Completion</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

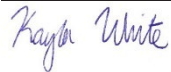
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

12/11/21 thru 12/14/21- Pre frac site set up, MIRU, Pressure test**12/15/21 thru 1/13/22-** 24 hour Frac Ops, 44 total stages, total holes 1232, 5076' to 15456' MD. Perfed w 0.42" holes with SFT-NE45B, FRP-48H, CSA-2400, Bardac 2250M, SCI-611W, SOUR-N8R & 16,149,210 total proppant.**2/16/2022 thru 2/26/2022 -** Drill out Ops**3/4/2022 -** Land Tubing

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Kayla White

Title: Associate Consultant, Environmental Engineer



Date: 4/22/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED

OMB NO. 1004-

0137

Expires: January 31, 2018

5. Lease Serial No.

N0-G-1312-1857

1a. Type of Well ☒ Oil Well ☐ Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing
☐ Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

NMNM135216A

2. Name of Operator

Enduring Resources IV LLC

8. Lease Name and Well No.

W Lybrook Unit 758H

3. Address

200 Energy Court Farmington NM 87402

3a. Phone No. (Include area code)

505-636-9743

9. API Well No.

30-045-38264

4. Location of Well (Report location clearly and in accordance with Federal requirements) *

At surface

SHL: 2611' FSL & 2127' FEL, Sec 23 T23N, R9W

BHL: 173' FNL & 1318' FWL, Sec 15 T23N, R9W

10. Field and Pool or Exploratory

Mancos-CMS

11. Sec., T., R., M., on Block and Survey or Area

Sec 23 T23N R9W

12. County or Parish
San Juan

13. State
NM

At top prod. interval reported below At total depth

14. Date Spudded

8/4/2021

15. Date T.D. Reached

11/08/2021

16. Date Completed 3/09/2022

☐ D & A

☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*

6719' KB

18. Total Depth: **15734' MD**
4719' TVD

19. Plug Back T.D.: **15456' MD**
4732' TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)

Was DST run? ☒ No ☐ Yes (Submit report)

Directional Survey? ☐ No ☒ Yes (Submit copy)

Form 3160-4
(June 2015)

UNITED STATES

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8", J-55	54.5	0	365' MD		350	86.6	surface	
12-1/4"	9-5/8", J-55	36	0	2705' MD		644	231	surface	
8-1/2"	5-1/2", P-110	17	0	15573' MD		2456	747	surface	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8", 6.5#, L-80	4959'	4892'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
Gallup	4580' TVD	4730' TVD	5076' - 15456' MD	.42	1232	

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
5076' - 15456' MD	44 total stages, total holes 1232. Perfed w 0.42" holes with SFT-NE45B, FRP-48H, CSA-2400, Bardac 2250M, SCI-611W, SOUR-N8R & 16,149,210 total proppant.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
3/10/2022	3/12/2022	24 hr	➡	80	320	438			Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	289	917	➡					Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
			➡						

Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
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*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
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Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
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28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
---------------------	-----------	--------------	----------------------	---------	---------	-----------	------------------------	-------------	-------------------

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
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28. Disposition of Gas (Solid, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, fl and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
OJAM	352				
KRLD	452				
FRLD	647				
PCCF	1032				
CLFH	2482				
MENF	2506				
PNLK	3466				
MNCS	3620				
Mancos_Silt	4189				
Gallup	4580				

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions) *

Name (please print) Kayla White

Title Assistant Consultant, Environmental Engineer

Signature Kayla White

Date: 4/1/2022

WELL NAME: W LYBROOK UNIT 758H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation
API Number: 30-045-38264
AFE Number: DV03011
ER Well Number: NM06437.01
State: New Mexico
County: San Juan
Surface Elev.: 6,719 ft ASL (GL) 6,747 ft ASL (KB)
Surface Location: 23-23N-09W Sec-Twn- Rng 2,611 ft FSL 2,127 ft FEL
BH Location: 15-23N-09W Sec-Twn- Rng 240 ft FNL 1409 ft FWL
Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,658 ft
KOP (MD)	4,243 ft
KOP (TVD)	4,095 ft
Target (TVD)	4,702 ft
Curve BUR	10 °/100 ft
POE (MD)	5,216 ft
TD (MD)	15,698 ft
Lat Len (ft)	10,482 ft

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 0.6 miles to fork, Right (Southwest) on CR #7890 for 0.5 miles to fork, Right (West) exiting CR #7890 for 0.6 miles to fork, Right (Northwest) for 0.6 mile to W Lybrook Unit 720H Pad

WELL CONSTRUCTION SUMMARY:

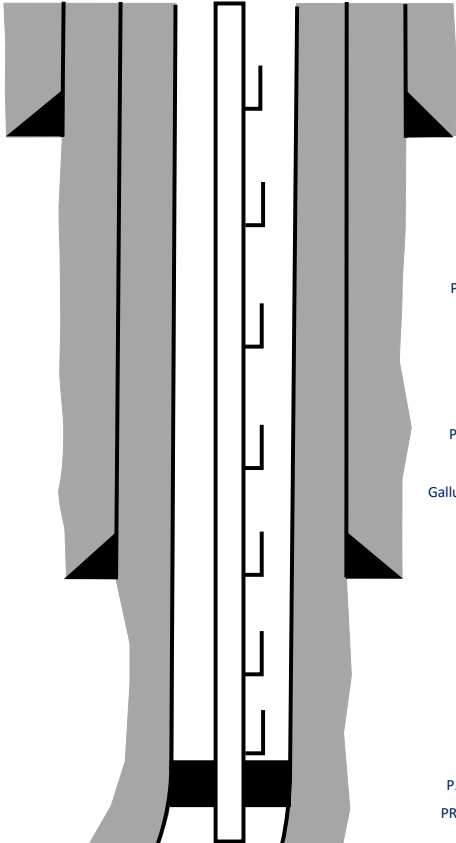
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,658	9.625	36.0	J-55	LTC	0	2,658
Production	8.500	15,698	5.500	17.0	P-110	LTC	0	15,698

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	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	III:POZ Blend	12.5	2.13	12.05	0.3627	70%	0	512
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,158	136
Prod. (Lead)	Type III	12.3	2.260	12.8	0.2691	65%	0	558
Prod. (Tail)	G:POZ blend	13.3	1.550	7.7	0.2291	10%	4,101	1,886

COMPLETION / PRODUCTION SUMMARY:

Frac: 45 (+/-) plug-and-perf stages with 320,000 bbls slickwater fluid and 12,500,000 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	352	352
Kirtland	452	452
Fruitland	647	647
Pictured Cliffs	1,032	1,032
Lewis	1,152	1,152
Chacra	1,417	1,417
Cliff House	2,481	2,525
Menefee	2,501	2,547
Point Lookout	3,459	3,597
Mancos	3,619	3,763
Gallup (MNCS_A)	3,954	4,101
MNCS_B	4,054	4,201
MNCS_C	4,144	4,291
MNCS_Cms	4,184	4,332
MNCS_D	4,334	4,479
MNCS_E	4,454	4,631
MNCS_F	4,515	4,713
MNCS_G	4,585	4,830
MNCS_H	4,632	4,926
P.O.E. TARGET	4,702	5,216
PROJECTED TD	4,753	15,698

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 101027

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 101027
	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 101027

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 101027
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days of BLM approval.	3/21/2024