

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 30-045-38260	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 321259	⁸ Property Name W LYBROOK UNIT		⁹ Well Number #720H

II. ¹⁰ Surface Location

UL or lot no. J	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 2565’	North/South Line South	Feet from the 2089’	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 766’	North/South line North	Feet from the 206’	East/West line West	County San Juan
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 1/31/2022		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 8/10/2021	²² Ready Date 1/31/2022	²³ TD 16221’ MD 4654’ TVD	²⁴ PBDT 16092 MD 4661’ TVD	²⁵ Perforations ~ 5248’-16092’ MD ~ 4671’-4661’ 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		361’ MD		350 sx - surface
12-1/4”		9-5/8”,36#, J-55		2715’ MD		657 sx- surface
8-1/2”		5-1/2”,17#, P-110		16211’ MD		2422 sx- surface

V. Well Test Data

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

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION Approved by: PATRICIA MARTINEZ
Printed name: Costin McQueen	Title: PETROLEUM SPECIALIST
Title: Consultant, Geologist	Approval Date: 3/9/2022
E-mail Address: Costin.McQueen@wsp.com	RT EXPIRES 4/31/2022
Date: 12/22/2021	

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462Submit one copy to
Appropriate District OfficeOIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

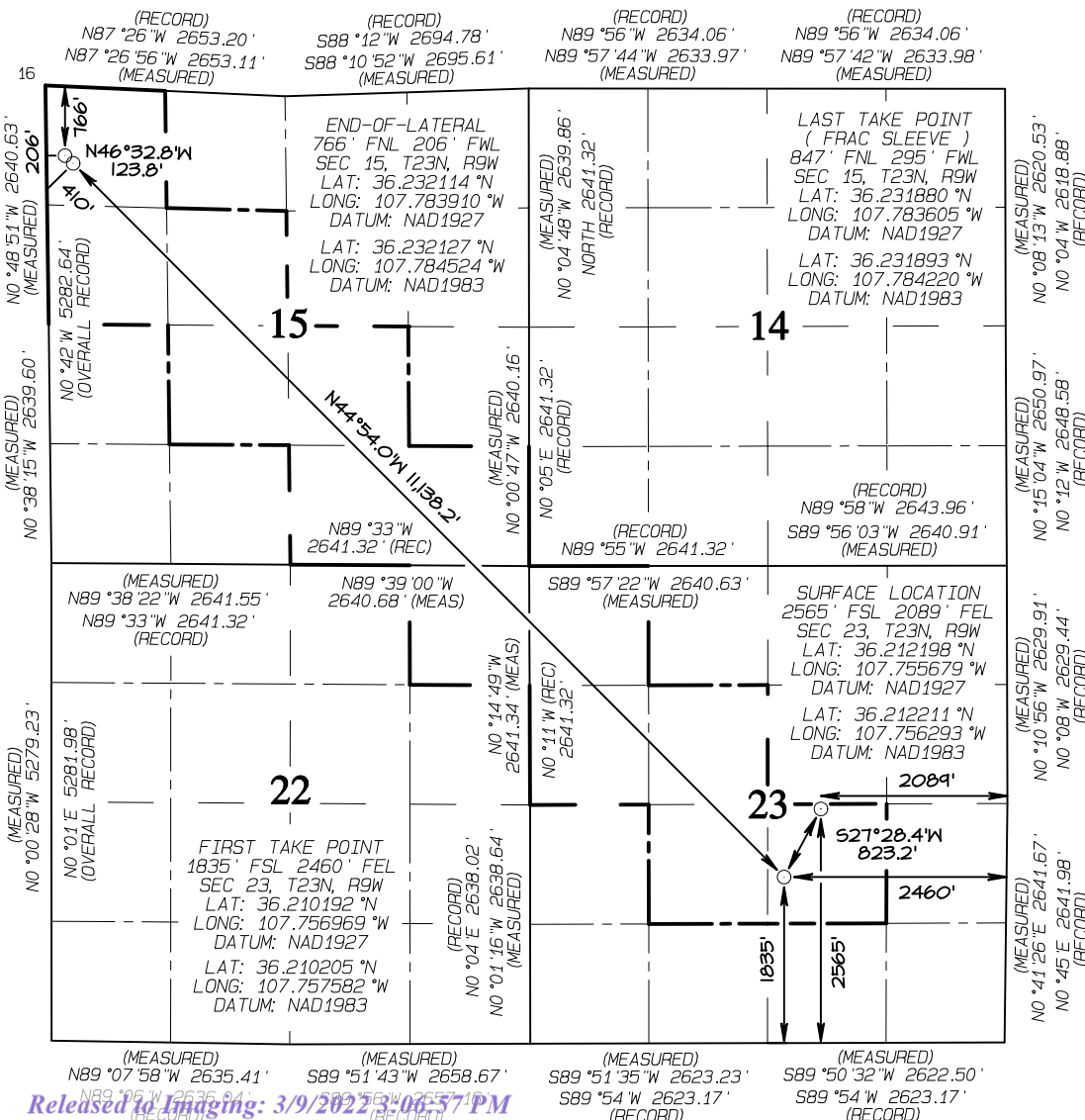
¹ API Number		² Pool Code	³ Pool Name
		98157	LYBROOK MANCOS W
⁴ Property Code	⁵ Property Name		⁶ Well Number
321259	W LYBROOK UNIT		720H
⁷ GRID No.	⁸ Operator Name		⁹ Elevation
372286	ENDURING RESOURCES, LLC		6719'

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		2565	SOUTH	2089	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	15	23N	9W		766	NORTH	206	WEST	SAN JUAN
¹² Dedicated Acres 520.00 W/2 NW/4, SE/4 NW/4 NE/4 SW/4, W/2 NE/4 SE/4 SE/4 - Section 15 NE/4 NE/4 - Section 22 W/2 NW/4, SE/4 NW/4 NE/4 SW/4, NW/4 SE/4 - Section 23					¹³ Joint or Infill		¹⁴ Consolidation Code		
							¹⁵ Order No. R-14051 - 12,807.24 Acres		

NO ALLOWABLE WILL BE ASSIGNED
TO THIS COMPLETION UNTIL ALL
INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS
BEEN APPROVED BY THE DIVISION¹⁷ 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 _____ Date _____

Printed Name _____

E-mail Address _____

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: DECEMBER 9, 2021
Survey Date: OCTOBER 19, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



Well: W Lybrook Unit No. 720H
Site: W Lybrook Unit
Project: San Juan County, New Mexico NAD83 NM W
Design: Surveys Original Hole
Rig: Ensign 773

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=2719+28 @ 6747.00ft (Ensign 773)
 Northing: 1896551.522 Easting: 2745818.020 Latitude: 36.212211000 Longitude: -107.756283000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.730°

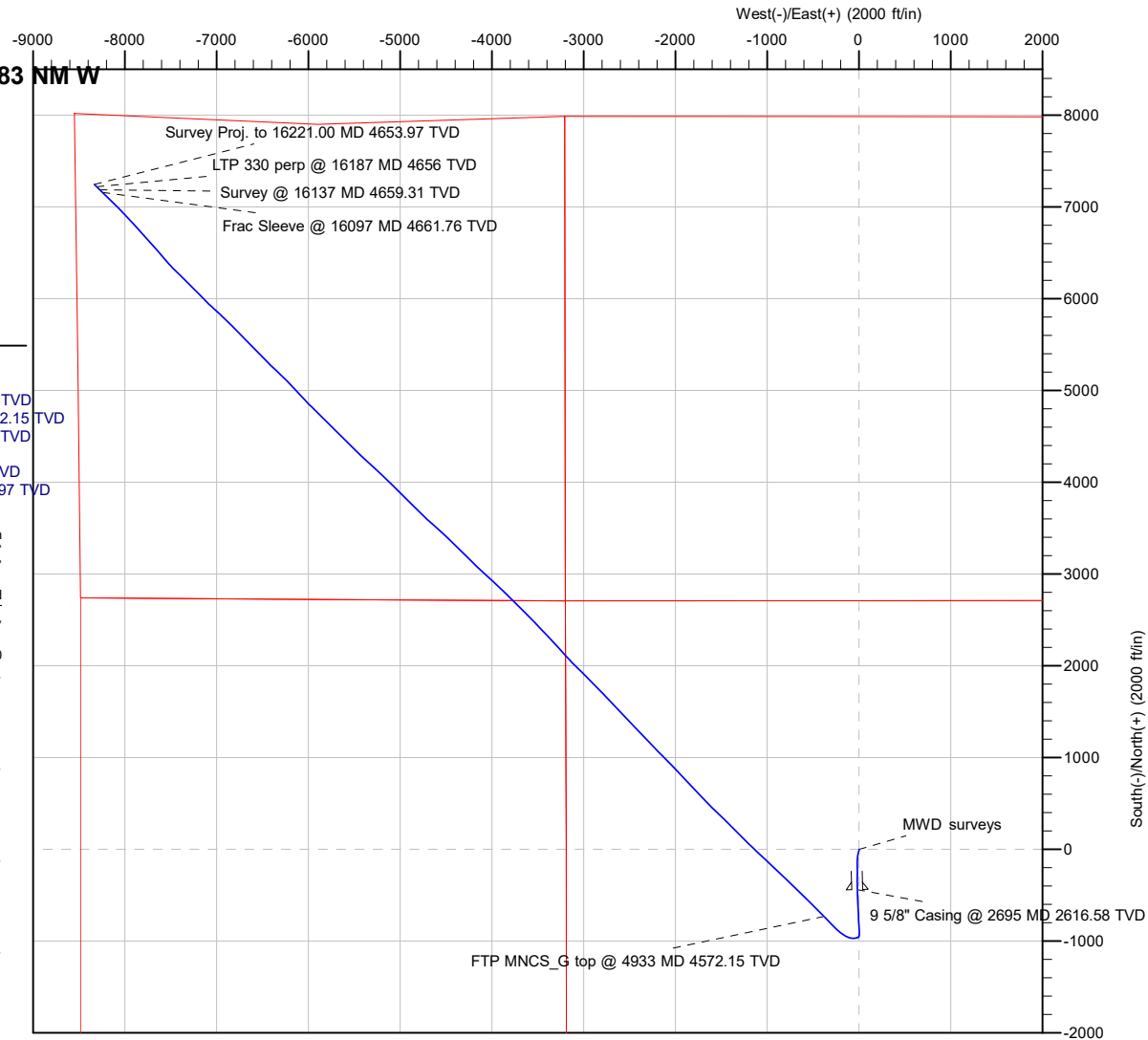
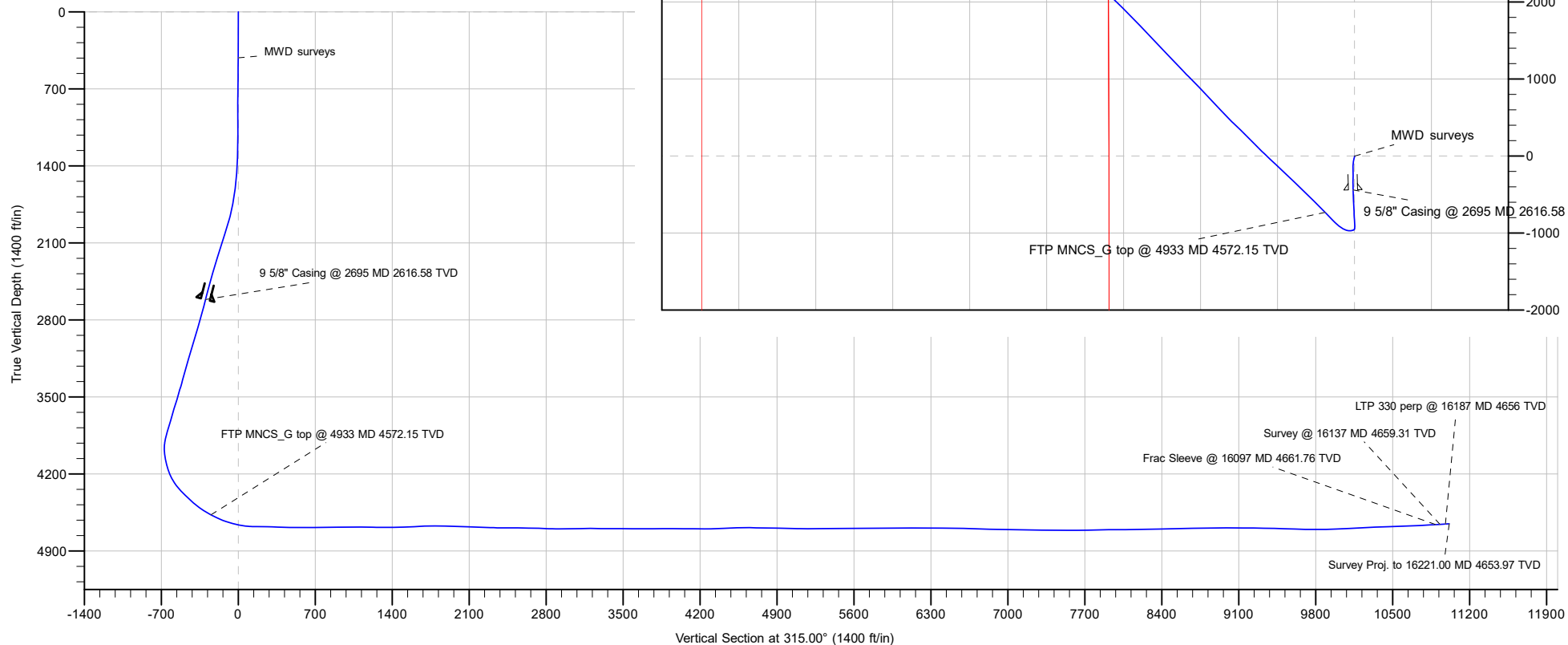
ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Annotation
419.00	0.35	132.35	419.00	-0.86	0.95	-1.28	MWD surveys
2695.00	19.61	178.53	2616.58	-439.42	-16.58	-298.99	9 5/8" Casing @ 2695 MD 2616.58 TVD
4933.00	61.21	315.58	4572.15	-730.49	-379.77	-248.00	FTP MNCS_G top @ 4933 MD 4572.15 TVD
16097.00	93.37	313.74	4661.76	7159.21	-8241.82	10890.17	Frac Sleeve @ 16097 MD 4661.76 TVD
16137.00	93.65	313.40	4659.31	7186.73	-8270.75	10930.08	Survey @ 16137 MD 4659.31 TVD
16187.00	93.65	313.40	4656.13	7221.01	-8307.00	10979.96	LTP 330 perp @ 16187 MD 4656 TVD
16221.00	93.65	313.40	4653.97	7244.32	-8331.66	11013.88	Survey Proj. to 16221.00 MD 4653.97 TVD



Azimuths to Grid North
 True North: -0.05°
 Magnetic North: 8.73°

Magnetic Field
 Strength: 49266.8nT
 Dip Angle: 62.74°
 Date: 10/6/2021
 Model: IGRF2020





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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. 720H, Surf loc: 2665 FSL 2089 FEL Section 23-T23N-R09W			
Well Position	+N/-S	0.00 ft	Northing:	1,896,551.522 usft
	+E/-W	0.00 ft	Easting:	2,745,818.019 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
Grid Convergence:		0.046 °	Ground Level:	6,719.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/6/2021	8.776	62.736	49,266.78477359

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 surf (Original Hole)	MWD	OWSG MWD - Standard	
2,655.00	16,137.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
16,221.00	16,221.00	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	0.35	132.35	419.00	-0.86	0.95	-1.28	0.08	0.08	0.00	
MWD surveys										
510.00	0.44	144.40	510.00	-1.33	1.35	-1.90	0.13	0.10	13.24	
601.00	0.62	159.16	600.99	-2.08	1.73	-2.69	0.25	0.20	16.22	
692.00	0.48	163.38	691.99	-2.90	2.02	-3.48	0.16	-0.15	4.64	
784.00	0.35	160.22	783.98	-3.54	2.22	-4.07	0.14	-0.14	-3.43	
875.00	0.26	167.07	874.98	-4.00	2.36	-4.50	0.11	-0.10	7.53	



Survey Report



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Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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	0.18	159.86	964.98	-4.33	2.46	-4.80	0.09	-0.09	-8.01
1,056.00	0.13	136.05	1,055.98	-4.54	2.58	-5.03	0.09	-0.05	-26.16
1,148.00	0.31	97.02	1,147.98	-4.65	2.90	-5.33	0.24	0.20	-42.42
1,238.00	0.13	103.61	1,237.98	-4.70	3.24	-5.61	0.20	-0.20	7.32
1,326.00	2.81	188.08	1,325.95	-6.86	3.03	-6.99	3.18	3.05	95.99
1,416.00	7.34	192.74	1,415.57	-14.65	1.45	-11.39	5.05	5.03	5.18
1,509.00	10.94	196.87	1,507.37	-28.90	-2.42	-18.72	3.93	3.87	4.44
1,601.00	12.83	193.88	1,597.40	-47.17	-7.40	-28.12	2.16	2.05	-3.25
1,693.00	14.99	190.19	1,686.70	-68.80	-11.96	-40.19	2.54	2.35	-4.01
1,783.00	17.89	186.50	1,773.01	-94.00	-15.58	-55.45	3.42	3.22	-4.10
1,873.00	20.48	180.52	1,858.01	-123.48	-17.29	-75.09	3.61	2.88	-6.64
1,965.00	23.86	179.82	1,943.20	-158.20	-17.38	-99.57	3.69	3.67	-0.76
2,056.00	23.69	180.43	2,026.48	-194.88	-17.46	-125.46	0.33	-0.19	0.67
2,147.00	23.69	180.26	2,109.81	-231.44	-17.68	-151.15	0.08	0.00	-0.19
2,237.00	23.91	180.26	2,192.16	-267.76	-17.84	-176.72	0.24	0.24	0.00
2,330.00	24.21	181.05	2,277.08	-305.67	-18.28	-203.22	0.47	0.32	0.85
2,422.00	22.68	179.11	2,361.48	-342.27	-18.35	-229.05	1.86	-1.66	-2.11
2,513.00	20.61	178.32	2,446.06	-375.83	-17.61	-253.30	2.30	-2.27	-0.87
2,605.00	20.83	179.73	2,532.11	-408.37	-17.06	-276.70	0.59	0.24	1.53
2,655.00	20.08	179.02	2,578.96	-425.84	-16.87	-289.19	1.58	-1.50	-1.42
2,695.00	19.61	178.53	2,616.58	-439.42	-16.58	-298.99	1.26	-1.19	-1.24
9 5/8" Casing @ 2695 MD 2616.58 TVD									
2,725.00	19.25	178.14	2,644.87	-449.39	-16.29	-306.25	1.26	-1.18	-1.29
2,819.00	18.94	175.94	2,733.70	-480.09	-14.70	-329.08	0.83	-0.33	-2.34
2,913.00	22.15	178.40	2,821.71	-513.03	-13.13	-353.49	3.54	3.41	2.62
3,008.00	22.41	177.78	2,909.62	-549.03	-11.93	-379.79	0.37	0.27	-0.65
3,102.00	22.02	177.43	2,996.64	-584.54	-10.44	-405.95	0.44	-0.41	-0.37
3,197.00	21.62	177.61	3,084.84	-619.82	-8.91	-431.97	0.43	-0.42	0.19
3,290.00	21.27	177.43	3,171.40	-653.79	-7.44	-457.03	0.38	-0.38	-0.19
3,383.00	21.09	176.99	3,258.12	-687.35	-5.81	-481.92	0.26	-0.19	-0.47
3,478.00	20.04	175.85	3,347.06	-720.65	-3.73	-506.94	1.18	-1.11	-1.20
3,572.00	22.28	178.40	3,434.72	-754.53	-2.07	-532.07	2.58	2.38	2.71
3,667.00	22.59	177.78	3,522.53	-790.77	-0.86	-558.55	0.41	0.33	-0.65
3,762.00	22.10	176.64	3,610.40	-826.84	0.89	-585.30	0.69	-0.52	-1.20
3,856.00	20.70	174.62	3,697.91	-861.04	3.49	-611.31	1.68	-1.49	-2.15
3,951.00	21.75	179.10	3,786.47	-895.35	5.34	-636.89	2.03	1.11	4.72
3,982.00	21.36	178.93	3,815.31	-906.74	5.54	-645.08	1.27	-1.26	-0.55
4,014.00	20.61	177.87	3,845.18	-918.20	5.85	-653.40	2.63	-2.34	-3.31
4,045.00	19.73	178.84	3,874.28	-928.88	6.16	-661.17	3.04	-2.84	3.13
4,077.00	17.09	189.21	3,904.65	-938.93	5.52	-667.82	13.12	-8.25	32.41
4,108.00	15.12	205.21	3,934.45	-947.09	3.07	-671.86	15.60	-6.35	51.61
4,140.00	14.85	223.93	3,965.38	-953.82	-1.56	-673.35	15.09	-0.84	58.50
4,171.00	15.82	240.01	3,995.29	-958.79	-7.98	-672.33	14.02	3.13	51.87
4,202.00	17.27	250.64	4,025.01	-962.43	-15.98	-669.24	10.81	4.68	34.29



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
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Well:	W Lybrook Unit No. 720H	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)
4,234.00	18.68	256.88	4,055.45	-965.17	-25.46	-664.48	7.45	4.41	19.50
4,265.00	19.86	262.51	4,084.71	-966.98	-35.51	-658.65	7.10	3.81	18.16
4,297.00	20.48	262.60	4,114.75	-968.41	-46.45	-651.93	1.94	1.94	0.28
4,328.00	22.90	266.20	4,143.56	-969.51	-57.85	-644.64	8.91	7.81	11.61
4,360.00	25.36	273.41	4,172.76	-969.52	-70.91	-635.41	11.98	7.69	22.53
4,391.00	27.47	279.56	4,200.53	-967.93	-84.59	-624.62	11.14	6.81	19.84
4,422.00	29.93	285.62	4,227.73	-964.66	-99.09	-612.05	12.28	7.94	19.55
4,454.00	32.61	291.34	4,255.08	-959.37	-114.82	-597.19	12.49	8.38	17.88
4,485.00	35.11	295.56	4,280.83	-952.49	-130.65	-581.13	11.07	8.06	13.61
4,517.00	37.27	298.46	4,306.65	-943.90	-147.47	-563.16	8.61	6.75	9.06
4,549.00	40.56	301.27	4,331.55	-933.88	-164.89	-543.76	11.67	10.28	8.78
4,580.00	43.42	305.23	4,354.59	-922.49	-182.21	-523.46	12.57	9.23	12.77
4,612.00	45.88	310.06	4,377.36	-908.75	-199.99	-501.17	13.10	7.69	15.09
4,643.00	47.42	313.40	4,398.64	-893.75	-216.81	-478.67	9.28	4.97	10.77
4,674.00	46.85	313.05	4,419.73	-878.18	-233.36	-455.96	2.02	-1.84	-1.13
4,706.00	46.58	312.34	4,441.67	-862.39	-250.48	-432.68	1.82	-0.84	-2.22
4,738.00	48.60	313.49	4,463.25	-846.30	-267.78	-409.07	6.85	6.31	3.59
4,769.00	50.80	315.16	4,483.30	-829.78	-284.69	-385.43	8.20	7.10	5.39
4,800.00	52.91	316.12	4,502.45	-812.35	-301.73	-361.06	7.23	6.81	3.10
4,832.00	55.72	317.00	4,521.12	-793.47	-319.60	-335.08	9.06	8.78	2.75
4,863.00	58.80	316.65	4,537.88	-774.46	-337.44	-309.02	9.98	9.94	-1.13
4,895.00	61.30	316.12	4,553.85	-754.39	-356.57	-281.30	7.94	7.81	-1.66
4,926.00	61.17	315.68	4,568.77	-734.87	-375.48	-254.13	1.31	-0.42	-1.42
4,933.00	61.21	315.58	4,572.15	-730.49	-379.77	-248.00	1.37	0.58	-1.42
FTP MNCS_G top @ 4933 MD 4572.15 TVD									
4,957.00	61.35	315.24	4,583.68	-715.50	-394.54	-226.95	1.37	0.58	-1.42
4,989.00	63.98	315.07	4,598.37	-695.35	-414.59	-198.53	8.23	8.22	-0.53
5,020.00	67.28	314.37	4,611.16	-675.48	-434.65	-170.29	10.84	10.65	-2.26
5,052.00	69.87	314.45	4,622.85	-654.64	-455.93	-140.51	8.10	8.09	0.25
5,083.00	71.63	315.16	4,633.07	-634.01	-476.69	-111.24	6.08	5.68	2.29
5,115.00	72.47	314.72	4,642.93	-612.51	-498.24	-80.80	2.93	2.63	-1.38
5,146.00	74.49	314.72	4,651.75	-591.60	-519.36	-51.08	6.52	6.52	0.00
5,177.00	76.51	314.98	4,659.51	-570.43	-540.63	-21.07	6.57	6.52	0.84
5,209.00	79.19	315.07	4,666.24	-548.31	-562.74	10.21	8.38	8.38	0.28
5,240.00	81.47	315.33	4,671.45	-526.62	-584.27	40.76	7.40	7.35	0.84
5,272.00	83.94	315.16	4,675.51	-504.09	-606.62	72.50	7.74	7.72	-0.53
5,303.00	86.88	314.72	4,677.99	-482.26	-628.49	103.40	9.59	9.48	-1.42
5,335.00	88.86	314.28	4,679.18	-459.85	-651.30	135.37	6.34	6.19	-1.38
5,367.00	88.99	314.10	4,679.78	-437.55	-674.24	167.37	0.69	0.41	-0.56
5,462.00	88.95	314.10	4,681.49	-371.45	-742.45	262.34	0.04	-0.04	0.00
5,556.00	87.80	312.52	4,684.15	-307.00	-810.82	356.26	2.08	-1.22	-1.68
5,650.00	89.12	313.49	4,686.68	-242.91	-879.53	450.16	1.74	1.40	1.03
5,744.00	89.12	313.14	4,688.12	-178.43	-947.92	544.11	0.37	0.00	-0.37



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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)	
5,839.00	88.99	312.52	4,689.69	-113.86	-1,017.58	639.03	0.67	-0.14	-0.65	
5,952.00	92.24	314.10	4,688.48	-36.36	-1,099.78	751.95	3.20	2.88	1.40	
6,046.00	92.02	312.87	4,684.98	28.28	-1,167.94	845.85	1.33	-0.23	-1.31	
6,140.00	90.04	315.68	4,683.29	93.88	-1,235.22	939.82	3.66	-2.11	2.99	
6,235.00	90.13	315.86	4,683.15	161.95	-1,301.49	1,034.81	0.21	0.09	0.19	
6,329.00	89.56	315.16	4,683.41	229.01	-1,367.36	1,128.80	0.96	-0.61	-0.74	
6,424.00	87.89	313.40	4,685.52	295.31	-1,435.35	1,223.77	2.55	-1.76	-1.85	
6,518.00	90.40	314.10	4,686.92	360.30	-1,503.24	1,317.72	2.77	2.67	0.74	
6,613.00	90.57	313.58	4,686.12	426.10	-1,571.76	1,412.70	0.58	0.18	-0.55	
6,708.00	92.15	316.48	4,683.87	493.28	-1,638.87	1,507.66	3.48	1.66	3.05	
6,800.00	92.10	316.39	4,680.45	559.90	-1,702.23	1,599.57	0.11	-0.05	-0.10	
6,894.00	93.56	317.09	4,675.81	628.27	-1,766.57	1,693.41	1.72	1.55	0.74	
6,989.00	89.25	316.65	4,673.48	697.56	-1,831.48	1,788.31	4.56	-4.54	-0.46	
7,083.00	88.64	316.65	4,675.21	765.91	-1,896.00	1,882.25	0.65	-0.65	0.00	
7,178.00	88.20	316.30	4,677.83	834.76	-1,961.40	1,977.18	0.59	-0.46	-0.37	
7,272.00	88.02	315.77	4,680.93	902.38	-2,026.62	2,071.12	0.60	-0.19	-0.56	
7,366.00	87.93	315.86	4,684.26	969.75	-2,092.09	2,165.05	0.14	-0.10	0.10	
7,461.00	87.45	315.16	4,688.09	1,037.46	-2,158.61	2,259.97	0.89	-0.51	-0.74	
7,555.00	89.96	316.21	4,690.21	1,104.70	-2,224.26	2,353.93	2.89	2.67	1.12	
7,649.00	89.65	316.65	4,690.53	1,172.80	-2,289.05	2,447.90	0.57	-0.33	0.47	
7,744.00	89.34	316.48	4,691.37	1,241.78	-2,354.36	2,542.86	0.37	-0.33	-0.18	
7,838.00	88.73	315.95	4,692.95	1,309.64	-2,419.39	2,636.82	0.86	-0.65	-0.56	
7,933.00	88.33	316.12	4,695.39	1,377.99	-2,485.32	2,731.77	0.46	-0.42	0.18	
8,027.00	87.80	316.04	4,698.56	1,445.66	-2,550.49	2,825.70	0.57	-0.56	-0.09	
8,121.00	90.44	317.00	4,700.00	1,513.85	-2,615.15	2,919.65	2.99	2.81	1.02	
8,216.00	90.84	317.00	4,698.94	1,583.33	-2,679.94	3,014.59	0.42	0.42	0.00	
8,311.00	90.84	317.00	4,697.55	1,652.80	-2,744.72	3,109.52	0.00	0.00	0.00	
8,405.00	90.09	316.21	4,696.79	1,721.10	-2,809.30	3,203.48	1.16	-0.80	-0.84	
8,499.00	89.30	313.66	4,697.29	1,787.49	-2,875.84	3,297.47	2.84	-0.84	-2.71	
8,594.00	90.66	315.68	4,697.32	1,854.27	-2,943.39	3,392.46	2.56	1.43	2.13	
8,688.00	89.47	314.63	4,697.21	1,920.91	-3,009.68	3,486.46	1.69	-1.27	-1.12	
8,782.00	88.73	313.58	4,698.69	1,986.33	-3,077.17	3,580.43	1.37	-0.79	-1.12	
8,877.00	90.48	317.35	4,699.35	2,054.03	-3,143.78	3,675.40	4.37	1.84	3.97	
8,971.00	90.66	318.32	4,698.41	2,123.70	-3,206.87	3,769.28	1.05	0.19	1.03	
9,064.00	90.35	317.79	4,697.59	2,192.87	-3,269.03	3,862.15	0.66	-0.33	-0.57	
9,159.00	89.56	317.27	4,697.67	2,262.94	-3,333.18	3,957.05	1.00	-0.83	-0.55	
9,253.00	89.34	316.48	4,698.57	2,331.54	-3,397.43	4,051.00	0.87	-0.23	-0.84	
9,347.00	89.30	316.74	4,699.68	2,399.85	-3,462.00	4,144.95	0.28	-0.04	0.28	
9,441.00	89.25	316.12	4,700.87	2,467.95	-3,526.78	4,238.92	0.66	-0.05	-0.66	
9,535.00	92.50	315.16	4,699.44	2,535.14	-3,592.49	4,332.89	3.61	3.46	-1.02	
9,629.00	92.46	314.98	4,695.37	2,601.62	-3,658.81	4,426.80	0.20	-0.04	-0.19	
9,723.00	92.42	314.63	4,691.37	2,667.81	-3,725.45	4,520.71	0.37	-0.04	-0.37	
9,817.00	89.82	314.81	4,689.53	2,733.93	-3,792.22	4,614.68	2.77	-2.77	0.19	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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)	
9,912.00	89.03	313.75	4,690.48	2,800.25	-3,860.23	4,709.67	1.39	-0.83	-1.12	
10,006.00	89.03	313.31	4,692.08	2,864.98	-3,928.37	4,803.63	0.47	0.00	-0.47	
10,101.00	88.95	313.14	4,693.75	2,930.03	-3,997.58	4,898.57	0.20	-0.08	-0.18	
10,195.00	88.68	312.61	4,695.69	2,993.98	-4,066.45	4,992.48	0.63	-0.29	-0.56	
10,289.00	88.64	311.91	4,697.89	3,057.18	-4,136.00	5,086.35	0.75	-0.04	-0.74	
10,383.00	90.62	315.16	4,698.50	3,121.91	-4,204.14	5,180.30	4.05	2.11	3.46	
10,477.00	90.75	314.98	4,697.38	3,188.45	-4,270.52	5,274.29	0.24	0.14	-0.19	
10,572.00	90.44	314.81	4,696.39	3,255.50	-4,337.81	5,369.28	0.37	-0.33	-0.18	
10,666.00	90.09	313.75	4,695.96	3,321.13	-4,405.11	5,463.27	1.19	-0.37	-1.13	
10,760.00	89.96	313.14	4,695.91	3,385.77	-4,473.36	5,557.24	0.66	-0.14	-0.65	
10,855.00	90.00	312.34	4,695.95	3,450.24	-4,543.13	5,652.16	0.84	0.04	-0.84	
10,950.00	90.09	312.34	4,695.87	3,514.23	-4,613.35	5,747.06	0.09	0.09	0.00	
11,044.00	90.75	311.46	4,695.18	3,577.00	-4,683.31	5,840.92	1.17	0.70	-0.94	
11,138.00	91.10	314.54	4,693.67	3,641.09	-4,752.04	5,934.84	3.30	0.37	3.28	
11,233.00	90.44	314.80	4,692.39	3,707.87	-4,819.59	6,029.83	0.75	-0.69	0.27	
11,327.00	90.13	315.24	4,691.92	3,774.36	-4,886.04	6,123.83	0.57	-0.33	0.47	
11,421.00	89.87	314.72	4,691.92	3,840.81	-4,952.53	6,217.83	0.62	-0.28	-0.55	
11,516.00	89.52	314.10	4,692.43	3,907.28	-5,020.39	6,312.82	0.75	-0.37	-0.65	
11,610.00	89.34	314.37	4,693.36	3,972.86	-5,087.74	6,406.81	0.35	-0.19	0.29	
11,705.00	88.86	314.28	4,694.85	4,039.23	-5,155.69	6,501.79	0.51	-0.51	-0.09	
11,799.00	88.90	313.49	4,696.69	4,104.38	-5,223.43	6,595.75	0.84	0.04	-0.84	
11,893.00	88.42	312.52	4,698.89	4,168.47	-5,292.15	6,689.67	1.15	-0.51	-1.03	
11,988.00	88.33	312.43	4,701.58	4,232.60	-5,362.19	6,784.54	0.13	-0.09	-0.09	
12,083.00	87.98	312.78	4,704.64	4,296.87	-5,432.08	6,879.40	0.52	-0.37	0.37	
12,177.00	89.52	314.80	4,706.69	4,361.90	-5,499.91	6,973.35	2.70	1.64	2.15	
12,272.00	89.52	315.25	4,707.49	4,429.10	-5,567.05	7,068.35	0.47	0.00	0.47	
12,366.00	89.17	314.80	4,708.56	4,495.60	-5,633.49	7,162.34	0.61	-0.37	-0.48	
12,461.00	88.68	314.72	4,710.35	4,562.48	-5,700.93	7,257.33	0.52	-0.52	-0.08	
12,555.00	88.33	314.19	4,712.80	4,628.29	-5,768.01	7,351.29	0.68	-0.37	-0.56	
12,649.00	90.48	314.98	4,713.77	4,694.26	-5,834.95	7,445.28	2.44	2.29	0.84	
12,743.00	90.13	314.54	4,713.27	4,760.45	-5,901.69	7,539.27	0.60	-0.37	-0.47	
12,837.00	89.82	314.63	4,713.32	4,826.44	-5,968.64	7,633.27	0.34	-0.33	0.10	
12,932.00	91.58	317.44	4,712.15	4,894.80	-6,034.57	7,728.23	3.49	1.85	2.96	
13,026.00	91.49	317.18	4,709.64	4,963.87	-6,098.29	7,822.12	0.29	-0.10	-0.28	
13,120.00	91.19	316.39	4,707.44	5,032.35	-6,162.63	7,916.05	0.90	-0.32	-0.84	
13,214.00	90.70	315.16	4,705.89	5,099.70	-6,228.19	8,010.03	1.41	-0.52	-1.31	
13,309.00	90.31	314.63	4,705.05	5,166.75	-6,295.48	8,105.02	0.69	-0.41	-0.56	
13,403.00	89.34	312.43	4,705.34	5,231.49	-6,363.63	8,198.99	2.56	-1.03	-2.34	
13,497.00	91.27	315.16	4,704.84	5,296.53	-6,431.47	8,292.95	3.56	2.05	2.90	
13,592.00	91.45	315.68	4,702.58	5,364.18	-6,498.13	8,387.92	0.58	0.19	0.55	
13,686.00	91.63	316.12	4,700.06	5,431.66	-6,563.52	8,481.87	0.51	0.19	0.47	
13,780.00	91.54	315.60	4,697.46	5,499.09	-6,628.96	8,575.83	0.56	-0.10	-0.55	
13,874.00	92.20	315.33	4,694.39	5,566.06	-6,694.85	8,669.77	0.76	0.70	-0.29	
13,968.00	90.48	315.42	4,692.19	5,632.94	-6,760.86	8,763.74	1.83	-1.83	0.10	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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)
14,063.00	90.35	314.89	4,691.50	5,700.30	-6,827.85	8,858.74	0.57	-0.14	-0.56
14,157.00	89.96	314.54	4,691.25	5,766.43	-6,894.65	8,952.74	0.56	-0.41	-0.37
14,252.00	89.82	313.22	4,691.43	5,832.28	-6,963.12	9,047.72	1.40	-0.15	-1.39
14,346.00	89.60	311.64	4,691.91	5,895.70	-7,032.50	9,141.62	1.70	-0.23	-1.68
14,440.00	89.38	314.89	4,692.74	5,960.11	-7,100.94	9,235.56	3.47	-0.23	3.46
14,534.00	88.68	315.68	4,694.33	6,026.90	-7,167.07	9,329.54	1.12	-0.74	0.84
14,628.00	88.33	315.25	4,696.79	6,093.88	-7,232.97	9,423.51	0.59	-0.37	-0.46
14,722.00	88.68	314.54	4,699.24	6,160.21	-7,299.54	9,517.48	0.84	0.37	-0.76
14,816.00	88.29	314.89	4,701.73	6,226.32	-7,366.31	9,611.44	0.56	-0.41	0.37
14,910.00	88.90	313.66	4,704.03	6,291.92	-7,433.59	9,705.40	1.46	0.65	-1.31
15,004.00	89.78	317.35	4,705.11	6,358.95	-7,499.46	9,799.38	4.04	0.94	3.93
15,099.00	91.36	319.64	4,704.17	6,430.09	-7,562.40	9,894.18	2.93	1.66	2.41
15,194.00	92.20	319.38	4,701.22	6,502.30	-7,624.06	9,988.84	0.93	0.88	-0.27
15,288.00	92.68	318.76	4,697.22	6,573.25	-7,685.58	10,082.52	0.83	0.51	-0.66
15,382.00	92.77	318.32	4,692.75	6,643.62	-7,747.75	10,176.24	0.48	0.10	-0.47
15,476.00	93.12	317.79	4,687.92	6,713.44	-7,810.50	10,269.98	0.68	0.37	-0.56
15,571.00	92.20	317.53	4,683.51	6,783.59	-7,874.41	10,364.77	1.01	-0.97	-0.27
15,665.00	91.80	317.00	4,680.23	6,852.59	-7,938.16	10,458.64	0.71	-0.43	-0.56
15,760.00	91.89	316.21	4,677.17	6,921.58	-8,003.40	10,553.55	0.84	0.09	-0.83
15,854.00	92.33	315.16	4,673.71	6,988.79	-8,069.02	10,647.48	1.21	0.47	-1.12
15,949.00	92.77	314.89	4,669.48	7,055.93	-8,136.10	10,742.39	0.54	0.46	-0.28
16,043.00	92.99	314.19	4,664.76	7,121.78	-8,203.01	10,836.26	0.78	0.23	-0.74
16,097.00	93.37	313.74	4,661.76	7,159.21	-8,241.82	10,890.17	1.09	0.70	-0.84
Frac Sleeve @ 16097 MD 4661.76 TVD									
16,137.00	93.65	313.40	4,659.31	7,186.73	-8,270.75	10,930.08	1.09	0.70	-0.84
Survey @ 16137 MD 4659.31 TVD									
16,187.00	93.65	313.40	4,656.13	7,221.01	-8,307.00	10,979.96	0.00	0.00	0.00
LTP 330 perp @ 16187 MD 4656 TVD									
16,221.00	93.65	313.40	4,653.97	7,244.32	-8,331.66	11,013.88	0.00	0.00	0.00
Survey Proj. to 16221.00 MD 4653.97 TVD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
419.00	419.00	-0.86	0.95	MWD surveys
2,695.00	2,616.58	-439.42	-16.58	9 5/8" Casing @ 2695 MD 2616.58 TVD
4,933.00	4,572.15	-730.49	-379.77	FTP MNCS_G top @ 4933 MD 4572.15 TVD
16,097.00	4,661.76	7,159.21	-8,241.82	Frac Sleeve @ 16097 MD 4661.76 TVD
16,137.00	4,659.31	7,186.73	-8,270.75	Survey @ 16137 MD 4659.31 TVD
16,187.00	4,656.13	7,221.01	-8,307.00	LTP 330 perp @ 16187 MD 4656 TVD
16,221.00	4,653.97	7,244.32	-8,331.66	Survey Proj. to 16221.00 MD 4653.97 TVD



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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	Latitude:	36.214585000
From:	Lat/Long	Easting:	2,747,156.265 usft	Longitude:	-107.751754000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.048 °

Well	W Lybrook Unit No. 720H, Surf loc: 2665 FSL 2089 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,896,551.522 usft	Latitude:	36.212211000
	+E/-W	0.00 ft	Easting:	2,745,818.019 usft	Longitude:	-107.756293000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,719.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/6/2021	8.776	62.736	49,266.78477359

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 surf (Original Hole)	MWD	OWSG MWD - Standard	
2,655.00	16,137.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
16,221.00	16,221.00	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	1,896,551.522	2,745,818.019	36.212211000	-107.756293000
419.00	0.35	132.35	419.00	-0.86	0.95	1,896,550.660	2,745,818.965	36.212208630	-107.756289796
MWD surveys									
510.00	0.44	144.40	510.00	-1.33	1.35	1,896,550.189	2,745,819.374	36.212207334	-107.756288411
601.00	0.62	159.16	600.99	-2.08	1.73	1,896,549.445	2,745,819.752	36.212205289	-107.756287130
692.00	0.48	163.38	691.99	-2.90	2.02	1,896,548.619	2,745,820.037	36.212203021	-107.756286169
784.00	0.35	160.22	783.98	-3.54	2.22	1,896,547.985	2,745,820.242	36.212201279	-107.756285474
875.00	0.26	167.07	874.98	-4.00	2.36	1,896,547.523	2,745,820.382	36.212200008	-107.756285000
965.00	0.18	159.86	964.98	-4.33	2.46	1,896,547.191	2,745,820.477	36.212199096	-107.756284681
1,056.00	0.13	136.05	1,055.98	-4.54	2.58	1,896,546.982	2,745,820.597	36.212198523	-107.756284272



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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	0.31	97.02	1,147.98	-4.65	2.90	1,896,546.877	2,745,820.917	36.212198233	-107.756283189
1,238.00	0.13	103.61	1,237.98	-4.70	3.24	1,896,546.823	2,745,821.258	36.212198084	-107.756282034
1,326.00	2.81	188.08	1,325.95	-6.86	3.03	1,896,544.663	2,745,821.052	36.212192152	-107.756282739
1,416.00	7.34	192.74	1,415.57	-14.65	1.45	1,896,536.868	2,745,819.473	36.212170740	-107.756288112
1,509.00	10.94	196.87	1,507.37	-28.90	-2.42	1,896,522.623	2,745,815.600	36.212131618	-107.756301277
1,601.00	12.83	193.88	1,597.40	-47.17	-7.40	1,896,504.351	2,745,810.616	36.212081432	-107.756318222
1,693.00	14.99	190.19	1,686.70	-68.80	-11.96	1,896,482.721	2,745,806.060	36.212022023	-107.756333725
1,783.00	17.89	186.50	1,773.01	-94.00	-15.58	1,896,457.525	2,745,802.435	36.211952814	-107.756346081
1,873.00	20.48	180.52	1,858.01	-123.48	-17.29	1,896,428.038	2,745,800.727	36.211871816	-107.756351951
1,965.00	23.86	179.82	1,943.20	-158.20	-17.38	1,896,393.327	2,745,800.639	36.211776462	-107.756352341
2,056.00	23.69	180.43	2,026.48	-194.88	-17.46	1,896,356.642	2,745,800.560	36.211675683	-107.756352709
2,147.00	23.69	180.26	2,109.81	-231.44	-17.68	1,896,320.080	2,745,800.340	36.211575244	-107.756353554
2,237.00	23.91	180.26	2,192.16	-267.76	-17.84	1,896,283.761	2,745,800.175	36.211475474	-107.756354210
2,330.00	24.21	181.05	2,277.08	-305.67	-18.28	1,896,245.849	2,745,799.740	36.211371327	-107.756355786
2,422.00	22.68	179.11	2,361.48	-342.27	-18.35	1,896,209.251	2,745,799.670	36.211270789	-107.756356123
2,513.00	20.61	178.32	2,446.06	-375.83	-17.61	1,896,175.696	2,745,800.412	36.211178609	-107.756353697
2,605.00	20.83	179.73	2,532.11	-408.37	-17.06	1,896,143.154	2,745,800.964	36.211089210	-107.756351914
2,655.00	20.08	179.02	2,578.96	-425.84	-16.87	1,896,125.681	2,745,801.153	36.211041212	-107.756351322
2,695.00	19.61	178.53	2,616.58	-439.42	-16.58	1,896,112.107	2,745,801.443	36.211003921	-107.756350375
9 5/8" Casing @ 2695 MD 2616.58 TVD									
2,725.00	19.25	178.14	2,644.87	-449.39	-16.29	1,896,102.133	2,745,801.733	36.210976521	-107.756349419
2,819.00	18.94	175.94	2,733.70	-480.09	-14.70	1,896,071.428	2,745,803.316	36.210892169	-107.756344135
2,913.00	22.15	178.40	2,821.71	-513.03	-13.13	1,896,038.489	2,745,804.891	36.210801677	-107.756338884
3,008.00	22.41	177.78	2,909.62	-549.03	-11.93	1,896,002.492	2,745,806.093	36.210702787	-107.756334908
3,102.00	22.02	177.43	2,996.64	-584.54	-10.44	1,895,966.983	2,745,807.577	36.210605239	-107.756329972
3,197.00	21.62	177.61	3,084.84	-619.82	-8.91	1,895,931.706	2,745,809.105	36.210508325	-107.756324886
3,290.00	21.27	177.43	3,171.40	-653.79	-7.44	1,895,897.736	2,745,810.576	36.210415004	-107.756319991
3,383.00	21.09	176.99	3,258.12	-687.35	-5.81	1,895,864.176	2,745,812.211	36.210322806	-107.756314539
3,478.00	20.04	175.85	3,347.06	-720.65	-3.73	1,895,830.872	2,745,814.287	36.210231312	-107.756307593
3,572.00	22.28	178.40	3,434.72	-754.53	-2.07	1,895,796.991	2,745,815.950	36.210138235	-107.756302046
3,667.00	22.59	177.78	3,522.53	-790.77	-0.86	1,895,760.756	2,745,817.160	36.210038692	-107.756298043
3,762.00	22.10	176.64	3,610.40	-826.84	0.89	1,895,724.683	2,745,818.914	36.209939592	-107.756292194
3,856.00	20.70	174.62	3,697.91	-861.04	3.49	1,895,690.489	2,745,821.508	36.209845652	-107.756283492
3,951.00	21.75	179.10	3,786.47	-895.35	5.34	1,895,656.170	2,745,823.359	36.209751371	-107.756277310
3,982.00	21.36	178.93	3,815.31	-906.74	5.54	1,895,644.783	2,745,823.554	36.209720088	-107.756276678
4,014.00	20.61	177.87	3,845.18	-918.20	5.85	1,895,633.328	2,745,823.873	36.209688620	-107.756275630
4,045.00	19.73	178.84	3,874.28	-928.88	6.16	1,895,622.644	2,745,824.181	36.209659269	-107.756274612
4,077.00	17.09	189.21	3,904.65	-938.93	5.52	1,895,612.598	2,745,823.538	36.209631672	-107.756276821
4,108.00	15.12	205.21	3,934.45	-947.09	3.07	1,895,604.439	2,745,821.085	36.209609264	-107.756285157
4,140.00	14.85	223.93	3,965.38	-953.82	-1.56	1,895,597.705	2,745,816.460	36.209590777	-107.756300854
4,171.00	15.82	240.01	3,995.29	-958.79	-7.98	1,895,592.730	2,745,810.041	36.209577123	-107.756322626
4,202.00	17.27	250.64	4,025.01	-962.43	-15.98	1,895,589.091	2,745,802.038	36.209567145	-107.756349765
4,234.00	18.68	256.88	4,055.45	-965.17	-25.46	1,895,586.353	2,745,792.564	36.209559644	-107.756381886
4,265.00	19.86	262.51	4,084.71	-966.98	-35.51	1,895,584.540	2,745,782.507	36.209554684	-107.756415981
4,297.00	20.48	262.60	4,114.75	-968.41	-46.45	1,895,583.110	2,745,771.567	36.209550780	-107.756453072
4,328.00	22.90	266.20	4,143.56	-969.51	-57.85	1,895,582.012	2,745,760.168	36.209547788	-107.756491713
4,360.00	25.36	273.41	4,172.76	-969.52	-70.91	1,895,582.007	2,745,747.110	36.209547802	-107.756535977
4,391.00	27.47	279.56	4,200.53	-967.93	-84.59	1,895,583.589	2,745,733.429	36.209552180	-107.756582350
4,422.00	29.93	285.62	4,227.73	-964.66	-99.09	1,895,586.860	2,745,718.925	36.209561198	-107.756631507
4,454.00	32.61	291.34	4,255.08	-959.37	-114.82	1,895,592.150	2,745,703.199	36.209575762	-107.756684801
4,485.00	35.11	295.56	4,280.83	-952.49	-130.65	1,895,599.038	2,745,687.371	36.209594719	-107.756738435
4,517.00	37.27	298.46	4,306.65	-943.90	-147.47	1,895,607.627	2,745,670.548	36.209618351	-107.756795439
4,549.00	40.56	301.27	4,331.55	-933.88	-164.89	1,895,617.649	2,745,653.131	36.209645918	-107.756854452
4,580.00	43.42	305.23	4,354.59	-922.49	-182.21	1,895,629.030	2,745,635.807	36.209677222	-107.756913145
4,612.00	45.88	310.06	4,377.36	-908.75	-199.99	1,895,642.773	2,745,618.025	36.209715013	-107.756973387



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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
4,643.00	47.42	313.40	4,398.64	-893.75	-216.81	1,895,657.779	2,745,601.213	36.209756273	-107.757030338
4,674.00	46.85	313.05	4,419.73	-878.18	-233.36	1,895,673.340	2,745,584.656	36.209799057	-107.757086419
4,706.00	46.58	312.34	4,441.67	-862.39	-250.48	1,895,689.136	2,745,567.536	36.209842487	-107.757144411
4,738.00	48.60	313.49	4,463.25	-846.30	-267.78	1,895,705.226	2,745,550.237	36.209886723	-107.757203010
4,769.00	50.80	315.16	4,483.30	-829.78	-284.69	1,895,721.747	2,745,533.329	36.209932146	-107.757260280
4,800.00	52.91	316.12	4,502.45	-812.35	-301.73	1,895,739.179	2,745,516.287	36.209980069	-107.757318003
4,832.00	55.72	317.00	4,521.12	-793.47	-319.60	1,895,758.051	2,745,498.420	36.210031952	-107.757378519
4,863.00	58.80	316.65	4,537.88	-774.46	-337.44	1,895,777.064	2,745,480.580	36.210084219	-107.757438943
4,895.00	61.30	316.12	4,553.85	-754.39	-356.57	1,895,797.135	2,745,461.454	36.210139397	-107.757503722
4,926.00	61.17	315.68	4,568.77	-734.87	-375.48	1,895,816.649	2,745,442.543	36.210193047	-107.757567776
4,933.00	61.21	315.58	4,572.15	-730.49	-379.77	1,895,821.034	2,745,438.254	36.210205101	-107.757582303
FTP MNCS_G top @ 4933 MD 4572.15 TVD									
4,957.00	61.35	315.24	4,583.68	-715.50	-394.54	1,895,836.023	2,745,423.478	36.210246308	-107.757632351
4,989.00	63.98	315.07	4,598.37	-695.35	-414.59	1,895,856.176	2,745,403.433	36.210301713	-107.757700246
5,020.00	67.28	314.37	4,611.16	-675.48	-434.65	1,895,876.041	2,745,383.370	36.210356327	-107.757768205
5,052.00	69.87	314.45	4,622.85	-654.64	-455.93	1,895,896.885	2,745,362.093	36.210413633	-107.757840277
5,083.00	71.63	315.16	4,633.07	-634.01	-476.69	1,895,917.509	2,745,341.329	36.210470333	-107.757910607
5,115.00	72.47	314.72	4,642.93	-612.51	-498.24	1,895,939.012	2,745,319.781	36.210529450	-107.757983596
5,146.00	74.49	314.72	4,651.75	-591.60	-519.36	1,895,959.923	2,745,298.664	36.210586941	-107.758055123
5,177.00	76.51	314.98	4,659.51	-570.43	-540.63	1,895,981.088	2,745,277.388	36.210645130	-107.758127191
5,209.00	79.19	315.07	4,666.24	-548.31	-562.74	1,896,003.217	2,745,255.279	36.210705965	-107.758202078
5,240.00	81.47	315.33	4,671.45	-526.62	-584.27	1,896,024.899	2,745,233.747	36.210765576	-107.758275010
5,272.00	83.94	315.16	4,675.51	-504.09	-606.62	1,896,047.438	2,745,211.401	36.210827538	-107.758350701
5,303.00	86.88	314.72	4,677.99	-482.26	-628.49	1,896,069.262	2,745,189.530	36.210887538	-107.758424782
5,335.00	88.86	314.28	4,679.18	-459.85	-651.30	1,896,091.674	2,745,166.723	36.210949155	-107.758502036
5,367.00	88.99	314.10	4,679.78	-437.55	-674.24	1,896,113.976	2,745,143.782	36.211010467	-107.758579744
5,462.00	88.95	314.10	4,681.49	-371.45	-742.45	1,896,180.077	2,745,075.572	36.211192197	-107.758810797
5,556.00	87.80	312.52	4,684.15	-307.00	-810.82	1,896,244.527	2,745,007.203	36.211369391	-107.759042389
5,650.00	89.12	313.49	4,686.68	-242.91	-879.53	1,896,308.615	2,744,938.489	36.211545593	-107.759275155
5,744.00	89.12	313.14	4,688.12	-178.43	-947.92	1,896,373.092	2,744,870.104	36.211722861	-107.759506807
5,839.00	88.99	312.52	4,689.69	-113.86	-1,017.58	1,896,437.666	2,744,800.443	36.211900398	-107.759742783
5,952.00	92.24	314.10	4,688.48	-36.36	-1,099.78	1,896,515.160	2,744,718.237	36.212113452	-107.760021256
6,046.00	92.02	312.87	4,684.98	28.28	-1,167.94	1,896,579.802	2,744,650.083	36.212291169	-107.760252125
6,140.00	90.04	315.68	4,683.29	93.88	-1,235.22	1,896,645.403	2,744,582.801	36.212471522	-107.760480039
6,235.00	90.13	315.86	4,683.15	161.95	-1,301.49	1,896,713.475	2,744,516.535	36.212658658	-107.760704503
6,329.00	89.56	315.16	4,683.41	229.01	-1,367.36	1,896,780.531	2,744,450.662	36.212843002	-107.760927637
6,424.00	87.89	313.40	4,685.52	295.31	-1,435.35	1,896,846.835	2,744,382.671	36.213025287	-107.761157957
6,518.00	90.40	314.10	4,686.92	360.30	-1,503.24	1,896,911.825	2,744,314.782	36.213203957	-107.761387931
6,613.00	90.57	313.58	4,686.12	426.10	-1,571.76	1,896,977.623	2,744,246.264	36.213384852	-107.761620041
6,708.00	92.15	316.48	4,683.87	493.28	-1,638.87	1,897,044.805	2,744,179.152	36.213569542	-107.761847381
6,800.00	92.10	316.39	4,680.45	559.90	-1,702.23	1,897,111.421	2,744,115.791	36.213752672	-107.762062005
6,894.00	93.56	317.09	4,675.81	628.27	-1,766.57	1,897,179.791	2,744,051.452	36.213940619	-107.762279941
6,989.00	89.25	316.65	4,673.48	697.56	-1,831.48	1,897,249.084	2,743,986.540	36.214131106	-107.762499822
7,083.00	88.64	316.65	4,675.21	765.91	-1,896.00	1,897,317.427	2,743,922.025	36.214318978	-107.762718359
7,178.00	88.20	316.30	4,677.83	834.76	-1,961.40	1,897,386.282	2,743,856.626	36.214508261	-107.762939891
7,272.00	88.02	315.77	4,680.93	902.38	-2,026.62	1,897,453.903	2,743,791.406	36.214694151	-107.763160823
7,366.00	87.93	315.86	4,684.26	969.75	-2,092.09	1,897,521.267	2,743,725.931	36.214879337	-107.763382619
7,461.00	87.45	315.16	4,688.09	1,037.46	-2,158.61	1,897,588.982	2,743,659.411	36.215065488	-107.763607958
7,555.00	89.96	316.21	4,690.21	1,104.70	-2,224.26	1,897,656.217	2,743,593.766	36.215250317	-107.763830334
7,649.00	89.65	316.65	4,690.53	1,172.80	-2,289.05	1,897,724.322	2,743,528.978	36.215437536	-107.764049802
7,744.00	89.34	316.48	4,691.37	1,241.78	-2,354.36	1,897,793.304	2,743,463.665	36.215627163	-107.764271049
7,838.00	88.73	315.95	4,692.95	1,309.64	-2,419.39	1,897,861.156	2,743,398.632	36.215813687	-107.764491354
7,933.00	88.33	316.12	4,695.39	1,377.99	-2,485.32	1,897,929.511	2,743,332.703	36.216001592	-107.764714693
8,027.00	87.80	316.04	4,698.56	1,445.66	-2,550.49	1,897,997.181	2,743,267.537	36.216187614	-107.764935448
8,121.00	90.44	317.00	4,700.00	1,513.85	-2,615.15	1,898,065.374	2,743,202.870	36.216375072	-107.765154512



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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
8,216.00	90.84	317.00	4,698.94	1,583.33	-2,679.94	1,898,134.848	2,743,138.084	36.216566048	-107.765373976
8,311.00	90.84	317.00	4,697.55	1,652.80	-2,744.72	1,898,204.319	2,743,073.302	36.216757016	-107.765593431
8,405.00	90.09	316.21	4,696.79	1,721.10	-2,809.30	1,898,272.619	2,743,008.725	36.216944767	-107.765812193
8,499.00	89.30	313.66	4,697.29	1,787.49	-2,875.84	1,898,339.004	2,742,942.188	36.217127261	-107.766037603
8,594.00	90.66	315.68	4,697.32	1,854.27	-2,943.39	1,898,405.786	2,742,874.633	36.217310846	-107.766266468
8,688.00	89.47	314.63	4,697.21	1,920.91	-3,009.68	1,898,472.432	2,742,808.347	36.217494053	-107.766491029
8,782.00	88.73	313.58	4,698.69	1,986.33	-3,077.17	1,898,537.844	2,742,740.859	36.217673874	-107.766719671
8,877.00	90.48	317.35	4,699.35	2,054.03	-3,143.78	1,898,605.546	2,742,674.247	36.217859982	-107.766945336
8,971.00	90.66	318.32	4,698.41	2,123.70	-3,206.87	1,898,675.215	2,742,611.152	36.218051490	-107.767159077
9,064.00	90.35	317.79	4,697.59	2,192.87	-3,269.03	1,898,744.384	2,742,548.992	36.218241620	-107.767369650
9,159.00	89.56	317.27	4,697.67	2,262.94	-3,333.18	1,898,814.458	2,742,484.849	36.218434239	-107.767586946
9,253.00	89.34	316.48	4,698.57	2,331.54	-3,397.43	1,898,883.062	2,742,420.595	36.218622819	-107.767804622
9,347.00	89.30	316.74	4,699.68	2,399.85	-3,462.00	1,898,951.366	2,742,356.025	36.218810577	-107.768023369
9,441.00	89.25	316.12	4,700.87	2,467.95	-3,526.78	1,899,019.466	2,742,291.242	36.218997774	-107.768242840
9,535.00	92.50	315.16	4,699.44	2,535.14	-3,592.49	1,899,086.655	2,742,225.538	36.219182469	-107.768465437
9,629.00	92.46	314.98	4,695.37	2,601.62	-3,658.81	1,899,153.142	2,742,159.214	36.219365235	-107.768690141
9,723.00	92.42	314.63	4,691.37	2,667.81	-3,725.45	1,899,219.323	2,742,092.581	36.219547163	-107.768915893
9,817.00	89.82	314.81	4,689.53	2,733.93	-3,792.22	1,899,285.447	2,742,025.808	36.219728933	-107.769142121
9,912.00	89.03	313.75	4,690.48	2,800.25	-3,860.23	1,899,351.768	2,741,957.799	36.219911246	-107.769372539
10,006.00	89.03	313.31	4,692.08	2,864.98	-3,928.37	1,899,416.499	2,741,889.657	36.220089193	-107.769603410
10,101.00	88.95	313.14	4,693.75	2,930.03	-3,997.58	1,899,481.551	2,741,820.445	36.220268021	-107.769837914
10,195.00	88.68	312.61	4,695.69	2,993.98	-4,066.45	1,899,545.495	2,741,751.573	36.220443804	-107.770071266
10,289.00	88.64	311.91	4,697.89	3,057.18	-4,136.00	1,899,608.691	2,741,682.023	36.220617536	-107.770306919
10,383.00	90.62	315.16	4,698.50	3,121.91	-4,204.14	1,899,673.425	2,741,613.892	36.220795487	-107.770537761
10,477.00	90.75	314.98	4,697.38	3,188.45	-4,270.52	1,899,739.969	2,741,547.510	36.220978408	-107.770762668
10,572.00	90.44	314.81	4,696.39	3,255.50	-4,337.81	1,899,807.017	2,741,480.216	36.221162714	-107.770990669
10,666.00	90.09	313.75	4,695.96	3,321.13	-4,405.11	1,899,872.643	2,741,412.919	36.221343113	-107.771218680
10,760.00	89.96	313.14	4,695.91	3,385.77	-4,473.36	1,899,937.283	2,741,344.673	36.221520803	-107.771449918
10,855.00	90.00	312.34	4,695.95	3,450.24	-4,543.13	1,900,001.756	2,741,274.902	36.221698039	-107.771686325
10,950.00	90.09	312.34	4,695.87	3,514.23	-4,613.35	1,900,065.741	2,741,204.681	36.221873934	-107.771924256
11,044.00	90.75	311.46	4,695.18	3,577.00	-4,683.31	1,900,128.514	2,741,134.719	36.222046500	-107.772161317
11,138.00	91.10	314.54	4,693.67	3,641.09	-4,752.04	1,900,192.606	2,741,065.989	36.222222684	-107.772394197
11,233.00	90.44	314.80	4,692.39	3,707.87	-4,819.59	1,900,259.386	2,740,998.435	36.222406253	-107.772623088
11,327.00	90.13	315.24	4,691.92	3,774.36	-4,886.04	1,900,325.876	2,740,931.992	36.222589021	-107.772848214
11,421.00	89.87	314.72	4,691.92	3,840.81	-4,952.53	1,900,392.321	2,740,865.501	36.222771664	-107.773073502
11,516.00	89.52	314.10	4,692.43	3,907.28	-5,020.39	1,900,458.799	2,740,797.639	36.222954401	-107.773303438
11,610.00	89.34	314.37	4,693.36	3,972.86	-5,087.74	1,900,524.370	2,740,730.293	36.223134646	-107.773531629
11,705.00	88.86	314.28	4,694.85	4,039.23	-5,155.69	1,900,590.741	2,740,662.340	36.223317087	-107.773761878
11,799.00	88.90	313.49	4,696.69	4,104.38	-5,223.43	1,900,655.890	2,740,594.605	36.223496171	-107.773991392
11,893.00	88.42	312.52	4,698.89	4,168.47	-5,292.15	1,900,719.985	2,740,525.883	36.223672362	-107.774224253
11,988.00	88.33	312.43	4,701.58	4,232.60	-5,362.19	1,900,784.110	2,740,455.842	36.223848635	-107.774461588
12,083.00	87.98	312.78	4,704.64	4,296.87	-5,432.08	1,900,848.385	2,740,385.955	36.224025322	-107.774698403
12,177.00	89.52	314.80	4,706.69	4,361.90	-5,499.91	1,900,913.414	2,740,318.120	36.224204075	-107.774928258
12,272.00	89.52	315.25	4,707.49	4,429.10	-5,567.05	1,900,980.616	2,740,250.977	36.224388796	-107.775155765
12,366.00	89.17	314.80	4,708.56	4,495.60	-5,633.49	1,901,047.108	2,740,184.543	36.224571564	-107.775380871
12,461.00	88.68	314.72	4,710.35	4,562.48	-5,700.93	1,901,113.989	2,740,117.099	36.224755403	-107.775609400
12,555.00	88.33	314.19	4,712.80	4,628.29	-5,768.01	1,901,179.799	2,740,050.025	36.224936298	-107.775836679
12,649.00	90.48	314.98	4,713.77	4,694.26	-5,834.95	1,901,245.776	2,739,983.086	36.225117652	-107.776063502
12,743.00	90.13	314.54	4,713.27	4,760.45	-5,901.69	1,901,311.964	2,739,916.341	36.225299583	-107.776289666
12,837.00	89.82	314.63	4,713.32	4,826.44	-5,968.64	1,901,377.949	2,739,849.394	36.225480957	-107.776516518
12,932.00	91.58	317.44	4,712.15	4,894.80	-6,034.57	1,901,446.311	2,739,783.457	36.225668861	-107.776739941
13,026.00	91.49	317.18	4,709.64	4,963.87	-6,098.29	1,901,515.379	2,739,719.745	36.225858699	-107.776955819
13,120.00	91.19	316.39	4,707.44	5,032.35	-6,162.63	1,901,583.866	2,739,655.398	36.226046941	-107.777173853
13,214.00	90.70	315.16	4,705.89	5,099.70	-6,228.19	1,901,651.216	2,739,589.845	36.226232062	-107.777395978
13,309.00	90.31	314.63	4,705.05	5,166.75	-6,295.48	1,901,718.265	2,739,522.550	36.226416357	-107.777624012



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	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
13,403.00	89.34	312.43	4,705.34	5,231.49	-6,363.63	1,901,783.001	2,739,454.405	36.226594300	-107.777854936
13,497.00	91.27	315.16	4,704.84	5,296.53	-6,431.47	1,901,848.046	2,739,386.564	36.226773091	-107.778084826
13,592.00	91.45	315.68	4,702.58	5,364.18	-6,498.13	1,901,915.692	2,739,319.902	36.226959026	-107.778310715
13,686.00	91.63	316.12	4,700.06	5,431.66	-6,563.52	1,901,983.171	2,739,254.510	36.227144499	-107.778532300
13,780.00	91.54	315.60	4,697.46	5,499.09	-6,628.96	1,902,050.603	2,739,189.073	36.227329842	-107.778754041
13,874.00	92.20	315.33	4,694.39	5,566.06	-6,694.85	1,902,117.572	2,739,123.182	36.227513914	-107.778977320
13,968.00	90.48	315.42	4,692.19	5,632.94	-6,760.86	1,902,184.453	2,739,057.171	36.227697742	-107.779201008
14,063.00	90.35	314.89	4,691.50	5,700.30	-6,827.85	1,902,251.807	2,738,990.180	36.227882874	-107.779428020
14,157.00	89.96	314.54	4,691.25	5,766.43	-6,894.65	1,902,317.943	2,738,923.383	36.228064657	-107.779654377
14,252.00	89.82	313.22	4,691.43	5,832.28	-6,963.12	1,902,383.791	2,738,854.910	36.228245650	-107.779886420
14,346.00	89.60	311.64	4,691.91	5,895.70	-7,032.50	1,902,447.209	2,738,785.531	36.228419969	-107.780121537
14,440.00	89.38	314.89	4,692.74	5,960.11	-7,100.94	1,902,511.622	2,738,717.093	36.228597022	-107.780353464
14,534.00	88.68	315.68	4,694.33	6,026.90	-7,167.07	1,902,578.410	2,738,650.967	36.228780591	-107.780577549
14,628.00	88.33	315.25	4,696.79	6,093.88	-7,232.97	1,902,645.392	2,738,585.064	36.228964695	-107.780800880
14,722.00	88.68	314.54	4,699.24	6,160.21	-7,299.54	1,902,711.715	2,738,518.497	36.229146989	-107.781026461
14,816.00	88.29	314.89	4,701.73	6,226.32	-7,366.31	1,902,777.828	2,738,451.723	36.229328706	-107.781252748
14,910.00	88.90	313.66	4,704.03	6,291.92	-7,433.59	1,902,843.428	2,738,384.441	36.229509015	-107.781480758
15,004.00	89.78	317.35	4,705.11	6,358.95	-7,499.46	1,902,910.462	2,738,318.578	36.229693262	-107.781703956
15,099.00	91.36	319.64	4,704.17	6,430.09	-7,562.40	1,902,981.597	2,738,255.632	36.229888766	-107.781917256
15,194.00	92.20	319.38	4,701.22	6,502.30	-7,624.06	1,903,053.811	2,738,193.978	36.230087233	-107.782126177
15,288.00	92.68	318.76	4,697.22	6,573.25	-7,685.58	1,903,124.764	2,738,132.452	36.230282236	-107.782334667
15,382.00	92.77	318.32	4,692.75	6,643.62	-7,747.75	1,903,195.129	2,738,070.285	36.230475626	-107.782545329
15,476.00	93.12	317.79	4,687.92	6,713.44	-7,810.50	1,903,264.952	2,738,007.538	36.230667526	-107.782757964
15,571.00	92.20	317.53	4,683.51	6,783.59	-7,874.41	1,903,335.096	2,737,943.622	36.230860308	-107.782974559
15,665.00	91.80	317.00	4,680.23	6,852.59	-7,938.16	1,903,404.096	2,737,879.872	36.231049949	-107.783190596
15,760.00	91.89	316.21	4,677.17	6,921.58	-8,003.40	1,903,473.090	2,737,814.639	36.231239574	-107.783411662
15,854.00	92.33	315.16	4,673.71	6,988.79	-8,069.02	1,903,540.301	2,737,749.017	36.231424301	-107.783634054
15,949.00	92.77	314.89	4,669.48	7,055.93	-8,136.10	1,903,607.439	2,737,681.938	36.231608828	-107.783861385
16,043.00	92.99	314.19	4,664.76	7,121.78	-8,203.01	1,903,673.287	2,737,615.023	36.231789813	-107.784088161
16,097.00	93.37	313.74	4,661.76	7,159.21	-8,241.82	1,903,710.716	2,737,576.215	36.231892687	-107.784219687
Frac Sleeve @ 16097 MD 4661.76 TVD									
16,137.00	93.65	313.40	4,659.31	7,186.73	-8,270.75	1,903,738.233	2,737,547.287	36.231968319	-107.784317726
Survey @ 16137 MD 4659.31 TVD									
16,187.00	93.65	313.40	4,656.13	7,221.01	-8,307.00	1,903,772.517	2,737,511.032	36.232062552	-107.784440600
LTP 330 perp @ 16187 MD 4656 TVD									
16,221.00	93.65	313.40	4,653.97	7,244.32	-8,331.66	1,903,795.831	2,737,486.379	36.232126630	-107.784524154
Survey Proj. to 16221.00 MD 4653.97 TVD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
419.00	419.00	-0.86	0.95	MWD surveys
2,695.00	2,616.58	-439.42	-16.58	9 5/8" Casing @ 2695 MD 2616.58 TVD
4,933.00	4,572.15	-730.49	-379.77	FTP MNCS_G top @ 4933 MD 4572.15 TVD
16,097.00	4,661.76	7,159.21	-8,241.82	Frac Sleeve @ 16097 MD 4661.76 TVD
16,137.00	4,659.31	7,186.73	-8,270.75	Survey @ 16137 MD 4659.31 TVD
16,187.00	4,656.13	7,221.01	-8,307.00	LTP 330 perp @ 16187 MD 4656 TVD
16,221.00	4,653.97	7,244.32	-8,331.66	Survey Proj. to 16221.00 MD 4653.97 TVD



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 720H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=2719+28 @ 6747.00ft (Ensign 773)
Well:	W Lybrook Unit No. 720H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Dec2220_v16

WELL NAME: W LYBROOK UNIT 720H**OBJECTIVE:** Drill, complete, and equip single lateral in the Mancos-I formation**API Number:** 30-045-38260**AFE Number:** DV03013**ER Well Number:** NM06439.01**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 2,565 ft FSL 2,089 ft FEL**BH Location:** 15-23N-09W Sec-Twn- Rng 810 ft FNL 236 ft FWL**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 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

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,669 ft
KOP (MD)	4,069 ft
KOP (TVD)	3,909 ft
Target (TVD)	4,687 ft
Curve BUR	10 °/100 ft
POE (MD)	5,235 ft
TD (MD)	16,175 ft
Lat Len (ft)	10,940 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	350
Intermediate	12.250	2,669	9.625	36.0	J-55	LTC	0	2,669
Production	8.500	16,175	5.500	17.0	P-110	LTC	0	16,175

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	514
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,169	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%	4,106	1,962

COMPLETION / PRODUCTION SUMMARY:**Frac:** 47 plug-and-perf stages with 330,000 bbls slickwater fluid and 13,000,000 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	2,539
Menefee	2,501	2,560
Point Lookout	3,459	3,588
Mancos	3,614	3,753
Gallup (MNCS_A)	3,943	4,106
MNCS_B	4,043	4,210
MNCS_C	4,123	4,292
MNCS_Cms	4,168	4,339
MNCS_D	4,319	4,501
MNCS_E	4,434	4,641
MNCS_F	4,495	4,724
MNCS_G	4,570	4,850
MNCS_H	4,615	4,942
MNCS_I	4,662	5,055
P.O.E. TARGET	4,687	5,235
PROJECTED TD	4,747	16,175

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
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District III

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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 68753

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 68753
	Action Type: [C-104] Completion Packet (C-104C)

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 68753

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 68753
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CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 4/31/2022.	3/9/2022