

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 30-045-38261	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 321259	⁸ Property Name W LYBROOK UNIT		⁹ Well Number #724H

II. ¹⁰ Surface Location

UL or lot no. J	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 2549'	North/South Line South	Feet from the 2076'	East/West line East	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. E	Section 15	Township 23N	Range 9W	Lot Idn	Feet from the 1687'	North/South line North	Feet from the 259'	East/West line West	County San Juan
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 1/7/2022		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 1/7/2022	²³ TD 15238' MD 4326' TVD	²⁴ PBDT 15229' MD 4326' TVD	²⁵ Perforations ~ 4837'-15229' MD ~ 4253'-4326' 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		2796' MD		673 sx- surface
8-1/2"		5-1/2",17#, P-110		15238' MD		2350 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 4/7/2022
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 30-045-38261	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 321259	⁵ Property Name W LYBROOK UNIT	⁶ Well Number 724H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6719'

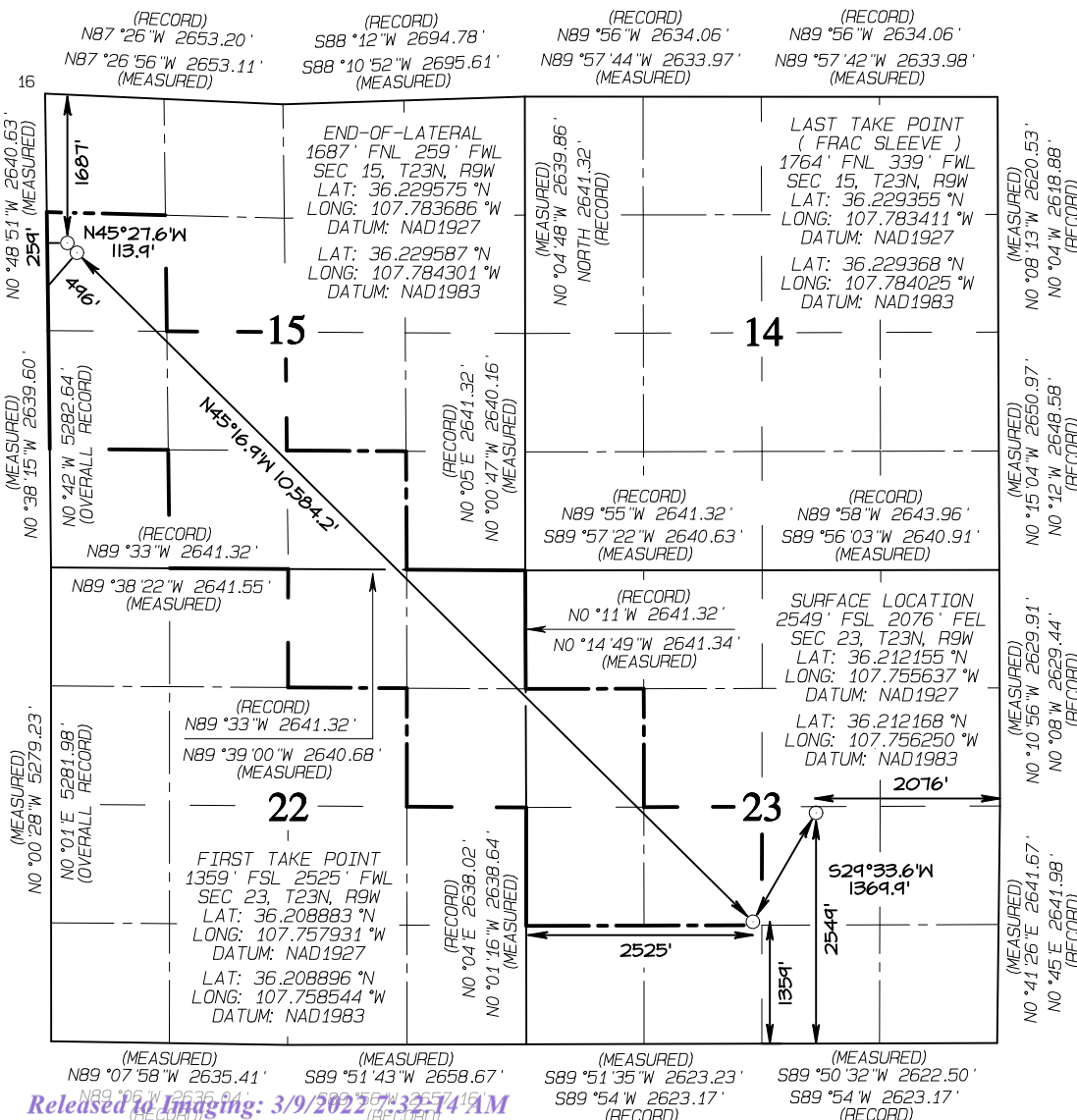
¹⁰ Surface Location

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		2549	SOUTH	2076	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
E	15	23N	9W		1687	NORTH	259	WEST	SAN JUAN

¹² Dedicated Acres 440.00 SW/4 NW/4, N/2 SW/4 SE/4 SW/4, SE/4 SE/4 - Section 15 N/2 NE/4, SE/4 NE/4 - Section 22 SW/4 NW/4, N/2 SW/4 - Section 23	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051 - 12,807.24 Acres
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NO ALLOWABLE WILL BE ASSIGNED
TO THIS COMPLETION UNTIL ALL
INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS
BEEN APPROVED BY THE 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 Heather Huntington Date 12/13/21

Printed Name

hhuntington@enduringresources.com

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 10, 2021
Survey Date: OCTOBER 19, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



Well: W Lybrook Unit No. 724H
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	Vsect	Annotation
419.00	0.79	250.04	418.99	-0.99	-2.72	1.22	MWD surveys
2776.00	29.45	194.70	2620.87	-649.45	-190.34	-324.64	9 5/8" Casing @ 2776.00 MD 2620.87 TVD
4624.00	60.13	303.95	4164.03	-1191.58	-675.93	-364.62	FTP MNCS-Cms top @ 4624 MD 4164.03 TVD
15191.00	87.93	314.54	4324.51	6225.63	-8166.13	10176.51	Survey @ 15191.00 MD 4324.51 TVD
15234.00	87.93	314.54	4326.06	6255.77	-8196.76	10219.48	Frac sleeve @ 15234.00 MD 4326.06 TVD
15348.00	87.93	314.54	4330.18	6335.68	-8277.96	10333.40	Survey Proj. to 15348 MD 4330.18 TVD 365 ft perp

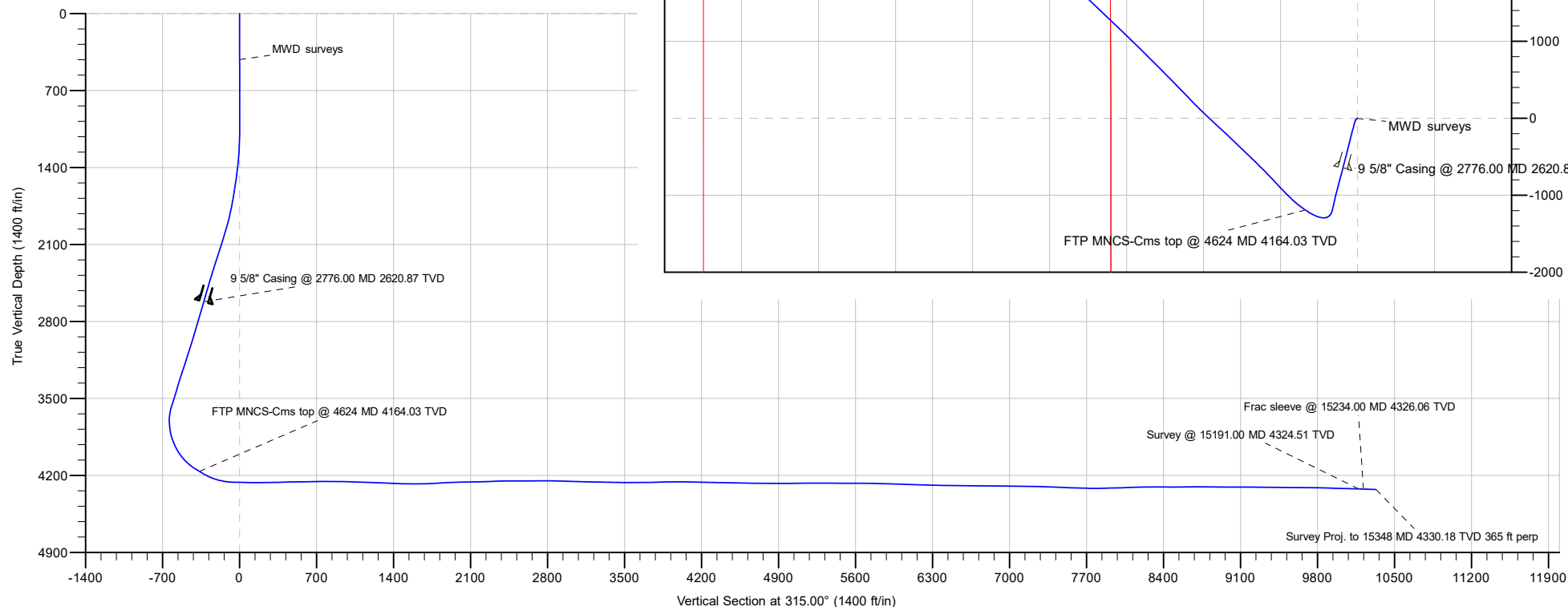
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6719+28 @ 6747.00ft (Ensign 733)
Northing Easting Latitude Longitude
1896535.679 2745830.717 36.212168000 -107.756250000

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



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



21:47, December 07 2021

West(-)/East(+) (2000 ft/in)

(ft/in) (+)North/(-)South



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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. 724H, Surf loc: 2549 FSL 2076 FEL Section 23-T23N-R09W		
Well Position	+N/-S	0.00 ft	Northing: 1,896,535.879 usft
	+E/-W	0.00 ft	Easting: 2,745,830.716 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	49,266.78831977

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	2,667.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,736.00	15,191.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
15,348.00	15,348.00	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	0.79	250.04	418.99	-0.99	-2.72	1.22	0.19	0.19	0.00	
MWD surveys										
479.00	1.14	259.80	478.98	-1.23	-3.69	1.74	0.64	0.58	16.27	
570.00	2.33	224.20	569.94	-2.72	-5.87	2.23	1.71	1.31	-39.12	
662.00	2.77	223.76	661.85	-5.67	-8.71	2.15	0.48	0.48	-0.48	
753.00	2.72	227.19	752.74	-8.72	-11.82	2.19	0.19	-0.05	3.77	
845.00	2.50	225.87	844.65	-11.60	-14.86	2.30	0.25	-0.24	-1.43	



Survey Report



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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. 724H	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)
934.00	2.20	226.05	933.57	-14.14	-17.48	2.36	0.34	-0.34	0.20
1,026.00	2.11	222.71	1,025.51	-16.61	-19.90	2.33	0.17	-0.10	-3.63
1,117.00	4.35	212.69	1,116.36	-20.74	-22.90	1.53	2.53	2.46	-11.01
1,208.00	7.56	204.16	1,206.86	-29.11	-27.22	-1.34	3.65	3.53	-9.37
1,296.00	10.11	199.50	1,293.80	-41.68	-32.17	-6.73	3.01	2.90	-5.30
1,387.00	12.00	194.76	1,383.11	-58.36	-37.24	-14.93	2.30	2.08	-5.21
1,479.00	14.28	193.44	1,472.70	-78.64	-42.32	-25.69	2.50	2.48	-1.43
1,571.00	16.74	194.93	1,561.34	-102.49	-48.37	-38.27	2.71	2.67	1.62
1,663.00	18.94	195.72	1,648.91	-129.66	-55.83	-52.21	2.41	2.39	0.86
1,753.00	21.01	195.72	1,733.49	-159.26	-64.16	-67.24	2.30	2.30	0.00
1,843.00	23.55	195.02	1,816.77	-192.16	-73.19	-84.12	2.84	2.82	-0.78
1,936.00	27.25	194.41	1,900.76	-230.74	-83.31	-104.25	3.99	3.98	-0.66
2,027.00	30.19	193.26	1,980.56	-273.19	-93.74	-126.89	3.29	3.23	-1.26
2,117.00	31.73	193.79	2,057.74	-318.21	-104.58	-151.06	1.74	1.71	0.59
2,208.00	31.46	194.23	2,135.25	-364.46	-116.12	-175.61	0.39	-0.30	0.48
2,300.00	31.33	193.97	2,213.78	-410.95	-127.79	-200.22	0.20	-0.14	-0.28
2,392.00	31.99	194.58	2,292.09	-457.74	-139.70	-224.89	0.80	0.72	0.66
2,483.00	32.17	194.76	2,369.19	-504.50	-151.94	-249.29	0.22	0.20	0.20
2,575.00	31.51	195.11	2,447.35	-551.39	-164.45	-273.61	0.74	-0.72	0.38
2,667.00	30.23	194.76	2,526.31	-597.00	-176.62	-297.26	1.40	-1.39	-0.38
2,736.00	29.71	194.58	2,586.09	-630.35	-185.35	-314.66	0.76	-0.75	-0.26
2,776.00	29.45	194.70	2,620.87	-649.45	-190.34	-324.64	0.67	-0.65	0.31
9 5/8" Casing @ 2776.00 MD 2620.87 TVD									
2,817.00	29.18	194.83	2,656.62	-668.86	-195.45	-334.75	0.67	-0.65	0.31
2,911.00	29.66	193.96	2,738.50	-713.58	-206.93	-358.26	0.68	0.51	-0.93
3,006.00	29.93	193.69	2,820.94	-759.42	-218.21	-382.69	0.32	0.28	-0.28
3,100.00	31.60	196.07	2,901.72	-805.87	-230.58	-406.80	2.20	1.78	2.53
3,194.00	31.42	194.75	2,981.86	-853.23	-243.63	-431.05	0.76	-0.19	-1.40
3,287.00	30.67	194.83	3,061.53	-899.61	-255.88	-455.19	0.81	-0.81	0.09
3,381.00	33.49	194.66	3,141.17	-947.88	-268.58	-480.34	3.00	3.00	-0.18
3,475.00	33.35	194.22	3,219.63	-998.02	-281.49	-506.66	0.30	-0.15	-0.47
3,570.00	31.07	192.73	3,300.01	-1,047.25	-293.31	-533.12	2.54	-2.40	-1.57
3,665.00	28.74	191.93	3,382.35	-1,093.51	-303.43	-558.67	2.49	-2.45	-0.84
3,760.00	30.10	193.25	3,465.10	-1,139.05	-313.61	-583.67	1.59	1.43	1.39
3,823.00	31.33	194.31	3,519.26	-1,170.30	-321.28	-600.35	2.13	1.95	1.68
3,854.00	32.78	193.78	3,545.53	-1,186.26	-325.27	-608.81	4.76	4.68	-1.71
3,886.00	32.43	195.19	3,572.49	-1,202.96	-329.59	-617.57	2.61	-1.09	4.41
3,917.00	30.28	199.67	3,598.97	-1,218.34	-334.40	-625.04	10.23	-6.94	14.45
3,949.00	28.26	205.47	3,626.89	-1,232.78	-340.37	-631.03	10.87	-6.31	18.13
3,980.00	26.46	211.53	3,654.42	-1,245.30	-347.14	-635.09	10.69	-5.81	19.55
4,012.00	25.22	219.00	3,683.23	-1,256.68	-355.16	-637.47	10.88	-3.88	23.34
4,043.00	24.48	227.09	3,711.37	-1,266.18	-364.02	-637.92	11.22	-2.39	26.10
4,075.00	23.86	234.21	3,740.57	-1,274.48	-374.13	-636.65	9.31	-1.94	22.25
4,106.00	24.04	243.79	3,768.91	-1,280.94	-384.89	-633.61	12.55	0.58	30.90



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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Site:	W Lybrook Unit	MD Reference:	RKB=6719+28 @ 6747.00ft (Ensign 733)
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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)
4,138.00	23.99	249.06	3,798.14	-1,286.15	-396.81	-628.85	6.70	-0.16	16.47
4,169.00	24.61	255.04	3,826.40	-1,290.07	-408.94	-623.05	8.18	2.00	19.29
4,200.00	25.88	262.95	3,854.45	-1,292.56	-421.89	-615.66	11.62	4.10	25.52
4,231.00	27.33	267.87	3,882.17	-1,293.66	-435.72	-606.65	8.51	4.68	15.87
4,263.00	28.83	274.02	3,910.41	-1,293.39	-450.76	-595.83	10.18	4.69	19.22
4,295.00	30.98	279.47	3,938.15	-1,291.49	-466.59	-583.30	10.82	6.72	17.03
4,326.00	32.96	283.60	3,964.45	-1,288.20	-482.65	-569.60	9.51	6.39	13.32
4,357.00	36.17	287.12	3,989.98	-1,283.52	-499.60	-554.32	12.19	10.35	11.35
4,389.00	39.20	289.76	4,015.30	-1,277.32	-518.15	-536.82	10.73	9.47	8.25
4,420.00	42.14	292.22	4,038.81	-1,270.07	-537.00	-518.36	10.80	9.48	7.94
4,452.00	45.31	295.12	4,061.94	-1,261.18	-557.24	-497.76	11.72	9.91	9.06
4,483.00	48.08	297.84	4,083.20	-1,251.11	-577.42	-476.37	10.98	8.94	8.77
4,515.00	51.02	299.51	4,103.96	-1,239.43	-598.78	-453.00	10.01	9.19	5.22
4,546.00	54.54	301.01	4,122.71	-1,226.98	-620.10	-429.13	11.99	11.35	4.84
4,578.00	57.83	301.97	4,140.51	-1,213.09	-642.76	-403.28	10.58	10.28	3.00
4,609.00	59.94	303.29	4,156.53	-1,198.78	-665.11	-377.36	7.72	6.81	4.26
4,624.00	60.13	303.95	4,164.03	-1,191.58	-675.93	-364.62	4.02	1.24	4.42
FTP MNCS-Cms top @ 4624 MD 4164.03 TVD									
4,641.00	60.34	304.70	4,172.47	-1,183.26	-688.12	-350.12	4.02	1.26	4.40
4,672.00	60.29	304.70	4,187.82	-1,167.93	-710.26	-323.62	0.16	-0.16	0.00
4,704.00	62.53	306.37	4,203.13	-1,151.60	-733.12	-295.91	8.37	7.00	5.22
4,735.00	66.14	307.42	4,216.56	-1,134.82	-755.46	-268.25	12.04	11.65	3.39
4,766.00	69.48	309.18	4,228.26	-1,117.03	-777.98	-239.75	11.99	10.77	5.68
4,798.00	72.73	310.59	4,238.62	-1,097.62	-801.20	-209.60	10.98	10.16	4.41
4,829.00	76.25	311.99	4,246.91	-1,077.91	-823.64	-179.80	12.16	11.35	4.52
4,861.00	79.76	313.22	4,253.56	-1,056.72	-846.67	-148.53	11.60	10.97	3.84
4,892.00	83.58	313.93	4,258.05	-1,035.58	-868.89	-117.87	12.53	12.32	2.29
4,924.00	87.19	315.33	4,260.63	-1,013.18	-891.58	-85.98	12.09	11.28	4.38
4,955.00	88.64	316.21	4,261.76	-990.98	-913.19	-55.01	5.47	4.68	2.84
4,986.00	88.68	316.30	4,262.48	-968.59	-934.62	-24.02	0.32	0.13	0.29
5,081.00	87.93	316.12	4,265.29	-900.04	-1,000.33	70.92	0.81	-0.79	-0.19
5,175.00	90.79	316.65	4,266.34	-832.00	-1,065.17	164.87	3.09	3.04	0.56
5,270.00	91.01	317.18	4,264.85	-762.63	-1,130.05	259.81	0.60	0.23	0.56
5,364.00	90.92	314.98	4,263.26	-694.93	-1,195.24	353.77	2.34	-0.10	-2.34
5,459.00	91.27	314.54	4,261.45	-628.05	-1,262.68	448.75	0.59	0.37	-0.46
5,553.00	91.19	314.45	4,259.43	-562.19	-1,329.72	542.73	0.13	-0.09	-0.10
5,647.00	91.23	313.75	4,257.45	-496.79	-1,397.21	636.69	0.75	0.04	-0.74
5,742.00	91.62	313.22	4,255.08	-431.43	-1,466.11	731.63	0.69	0.41	-0.56
5,836.00	88.95	314.45	4,254.62	-366.34	-1,533.91	825.60	3.13	-2.84	1.31
5,950.00	88.73	313.92	4,256.92	-286.90	-1,615.64	939.56	0.50	-0.19	-0.46
6,044.00	88.20	313.14	4,259.44	-222.18	-1,683.77	1,033.50	1.00	-0.56	-0.83
6,138.00	88.07	312.78	4,262.50	-158.15	-1,752.52	1,127.39	0.41	-0.14	-0.38
6,233.00	87.76	313.14	4,265.96	-93.46	-1,822.00	1,222.27	0.50	-0.33	0.38



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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)
6,327.00	87.71	312.43	4,269.67	-29.66	-1,890.93	1,316.12	0.76	-0.05	-0.76
6,422.00	87.54	312.34	4,273.61	34.33	-1,961.04	1,410.94	0.20	-0.18	-0.09
6,516.00	89.34	314.89	4,276.17	99.14	-2,029.07	1,504.87	3.32	1.91	2.71
6,611.00	89.08	315.16	4,277.48	166.34	-2,096.20	1,599.86	0.39	-0.27	0.28
6,706.00	92.55	316.48	4,276.13	234.45	-2,162.39	1,694.82	3.91	3.65	1.39
6,800.00	92.94	315.86	4,271.63	302.18	-2,227.42	1,788.69	0.78	0.41	-0.66
6,895.00	93.30	316.12	4,266.45	370.40	-2,293.32	1,883.54	0.47	0.38	0.27
6,989.00	91.01	315.33	4,262.92	437.66	-2,358.89	1,977.46	2.58	-2.44	-0.84
7,084.00	91.14	315.68	4,261.14	505.41	-2,425.46	2,072.44	0.39	0.14	0.37
7,178.00	91.45	315.42	4,259.01	572.49	-2,491.27	2,166.41	0.43	0.33	-0.28
7,272.00	91.93	315.33	4,256.24	639.37	-2,557.27	2,260.37	0.52	0.51	-0.10
7,367.00	91.98	315.33	4,253.00	706.89	-2,624.02	2,355.31	0.05	0.05	0.00
7,461.00	89.96	314.81	4,251.41	773.42	-2,690.40	2,449.29	2.22	-2.15	-0.55
7,555.00	90.18	314.54	4,251.29	839.51	-2,757.24	2,543.29	0.37	0.23	-0.29
7,650.00	90.62	313.93	4,250.63	905.78	-2,825.30	2,638.28	0.79	0.46	-0.64
7,744.00	90.75	313.31	4,249.51	970.63	-2,893.35	2,732.24	0.67	0.14	-0.66
7,838.00	88.51	315.07	4,250.11	1,036.14	-2,960.74	2,826.22	3.03	-2.38	1.87
7,933.00	88.90	315.16	4,252.26	1,103.43	-3,027.76	2,921.20	0.42	0.41	0.09
8,027.00	88.59	313.93	4,254.32	1,169.35	-3,094.74	3,015.17	1.35	-0.33	-1.31
8,122.00	88.46	313.40	4,256.77	1,234.92	-3,163.44	3,110.11	0.57	-0.14	-0.56
8,216.00	88.20	312.70	4,259.51	1,299.06	-3,232.10	3,204.02	0.79	-0.28	-0.74
8,311.00	87.89	312.08	4,262.75	1,363.07	-3,302.22	3,298.86	0.73	-0.33	-0.65
8,405.00	89.60	314.45	4,264.81	1,427.48	-3,370.65	3,392.79	3.11	1.82	2.52
8,499.00	90.00	314.63	4,265.13	1,493.41	-3,437.65	3,486.78	0.47	0.43	0.19
8,594.00	90.35	314.10	4,264.84	1,559.83	-3,505.56	3,581.78	0.67	0.37	-0.56
8,688.00	90.97	314.45	4,263.76	1,625.45	-3,572.86	3,675.76	0.76	0.66	0.37
8,783.00	90.97	313.66	4,262.15	1,691.50	-3,641.13	3,770.73	0.83	0.00	-0.83
8,877.00	90.88	313.58	4,260.63	1,756.34	-3,709.17	3,864.69	0.13	-0.10	-0.09
8,971.00	90.70	312.61	4,259.34	1,820.55	-3,777.80	3,958.63	1.05	-0.19	-1.03
9,065.00	89.08	315.33	4,259.52	1,885.81	-3,845.44	4,052.61	3.37	-1.72	2.89
9,159.00	88.95	314.28	4,261.14	1,952.04	-3,912.13	4,146.59	1.13	-0.14	-1.12
9,253.00	88.55	312.78	4,263.19	2,016.76	-3,980.26	4,240.53	1.65	-0.43	-1.60
9,347.00	88.99	315.86	4,265.20	2,082.41	-4,047.49	4,334.49	3.31	0.47	3.28
9,441.00	88.51	315.51	4,267.25	2,149.65	-4,113.14	4,428.46	0.63	-0.51	-0.37
9,535.00	88.42	315.25	4,269.77	2,216.54	-4,179.14	4,522.43	0.29	-0.10	-0.28
9,629.00	89.25	317.62	4,271.68	2,284.63	-4,243.91	4,616.37	2.67	0.88	2.52
9,723.00	89.43	317.44	4,272.77	2,353.96	-4,307.37	4,710.27	0.27	0.19	-0.19
9,818.00	89.82	317.09	4,273.39	2,423.74	-4,371.84	4,805.20	0.55	0.41	-0.37
9,912.00	90.44	317.27	4,273.18	2,492.69	-4,435.73	4,899.13	0.69	0.66	0.19
10,006.00	90.57	316.56	4,272.35	2,561.34	-4,499.93	4,993.07	0.77	0.14	-0.76
10,101.00	90.31	315.86	4,271.62	2,629.91	-4,565.67	5,088.05	0.79	-0.27	-0.74
10,195.00	90.18	315.86	4,271.22	2,697.37	-4,631.14	5,182.04	0.14	-0.14	0.00
10,289.00	89.82	315.07	4,271.22	2,764.37	-4,697.06	5,276.03	0.92	-0.38	-0.84



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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)
10,383.00	89.96	314.80	4,271.40	2,830.77	-4,763.61	5,370.03	0.32	0.15	-0.29
10,477.00	89.87	314.54	4,271.54	2,896.85	-4,830.45	5,464.03	0.29	-0.10	-0.28
10,572.00	89.74	314.37	4,271.86	2,963.38	-4,898.27	5,559.02	0.23	-0.14	-0.18
10,666.00	89.87	313.58	4,272.18	3,028.65	-4,965.91	5,653.01	0.85	0.14	-0.84
10,760.00	88.68	315.60	4,273.37	3,094.63	-5,032.84	5,746.99	2.49	-1.27	2.15
10,855.00	88.55	315.07	4,275.66	3,162.18	-5,099.60	5,841.96	0.57	-0.14	-0.56
10,950.00	88.20	314.28	4,278.36	3,228.94	-5,167.13	5,936.92	0.91	-0.37	-0.83
11,044.00	88.37	316.30	4,281.17	3,295.71	-5,233.23	6,030.87	2.16	0.18	2.15
11,138.00	88.02	315.86	4,284.13	3,363.39	-5,298.40	6,124.81	0.60	-0.37	-0.47
11,233.00	88.42	316.12	4,287.08	3,431.68	-5,364.37	6,219.75	0.50	0.42	0.27
11,327.00	88.29	315.60	4,289.78	3,499.11	-5,429.81	6,313.70	0.57	-0.14	-0.55
11,421.00	89.03	315.95	4,291.98	3,566.45	-5,495.35	6,407.66	0.87	0.79	0.37
11,516.30	89.12	315.16	4,293.52	3,634.48	-5,562.07	6,502.95	0.83	0.09	-0.83
11,611.00	89.52	314.72	4,294.64	3,701.37	-5,629.10	6,597.64	0.63	0.42	-0.46
11,705.00	89.74	314.54	4,295.25	3,767.40	-5,696.00	6,691.64	0.30	0.23	-0.19
11,799.00	89.96	313.66	4,295.50	3,832.82	-5,763.50	6,785.62	0.96	0.23	-0.94
11,894.00	88.81	315.25	4,296.52	3,899.35	-5,831.30	6,880.61	2.07	-1.21	1.67
11,988.00	88.77	315.42	4,298.50	3,966.19	-5,897.37	6,974.59	0.19	-0.04	0.18
12,083.00	89.38	314.89	4,300.03	4,033.53	-5,964.35	7,069.57	0.85	0.64	-0.56
12,177.00	89.82	313.93	4,300.69	4,099.31	-6,031.50	7,163.56	1.12	0.47	-1.02
12,272.00	88.81	316.12	4,301.83	4,166.51	-6,098.63	7,258.55	2.54	-1.06	2.31
12,367.00	87.80	315.51	4,304.64	4,234.60	-6,164.82	7,353.50	1.24	-1.06	-0.64
12,461.00	87.63	315.16	4,308.38	4,301.40	-6,230.84	7,447.42	0.41	-0.18	-0.37
12,555.00	87.93	314.98	4,312.03	4,367.90	-6,297.18	7,541.35	0.37	0.32	-0.19
12,649.00	87.71	314.37	4,315.60	4,433.94	-6,363.97	7,635.28	0.69	-0.23	-0.65
12,743.00	89.12	316.04	4,318.20	4,500.62	-6,430.17	7,729.24	2.32	1.50	1.78
12,837.00	90.97	315.42	4,318.13	4,567.92	-6,495.79	7,823.23	2.08	1.97	-0.66
12,932.00	91.45	314.89	4,316.12	4,635.27	-6,562.77	7,918.20	0.75	0.51	-0.56
13,026.00	91.71	314.19	4,313.53	4,701.17	-6,629.74	8,012.16	0.79	0.28	-0.74
13,120.00	92.02	314.01	4,310.47	4,766.55	-6,697.21	8,106.10	0.38	0.33	-0.19
13,214.00	91.98	313.66	4,307.19	4,831.62	-6,764.97	8,200.03	0.37	-0.04	-0.37
13,309.00	90.09	315.16	4,305.47	4,898.08	-6,832.82	8,295.00	2.54	-1.99	1.58
13,403.00	89.38	313.49	4,305.91	4,963.76	-6,900.06	8,388.99	1.93	-0.76	-1.78
13,497.00	89.96	314.10	4,306.45	5,028.81	-6,967.91	8,482.96	0.90	0.62	0.65
13,592.00	90.75	314.10	4,305.86	5,094.92	-7,036.13	8,577.95	0.83	0.83	0.00
13,686.00	91.19	314.01	4,304.27	5,160.27	-7,103.68	8,671.92	0.48	0.47	-0.10
13,780.00	89.03	315.60	4,304.09	5,226.51	-7,170.36	8,765.91	2.85	-2.30	1.69
13,874.00	89.08	315.51	4,305.64	5,293.61	-7,236.18	8,859.90	0.11	0.05	-0.10
13,968.00	89.08	314.80	4,307.15	5,360.25	-7,302.45	8,953.88	0.76	0.00	-0.76
14,063.00	89.74	314.45	4,308.13	5,426.98	-7,370.06	9,048.88	0.79	0.69	-0.37
14,157.00	90.48	314.28	4,307.95	5,492.70	-7,437.26	9,142.87	0.81	0.79	-0.18
14,252.00	91.01	313.84	4,306.71	5,558.76	-7,505.53	9,237.85	0.73	0.56	-0.46
14,346.00	88.73	315.86	4,306.92	5,625.05	-7,572.16	9,331.84	3.24	-2.43	2.15
14,440.00	88.33	315.95	4,309.34	5,692.54	-7,637.55	9,425.79	0.44	-0.43	0.10



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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)	
14,531.00	89.12	315.16	4,311.36	5,757.49	-7,701.25	9,516.76	1.23	0.87	-0.87	
14,625.00	89.91	314.63	4,312.16	5,823.83	-7,767.84	9,610.76	1.01	0.84	-0.56	
14,719.00	90.66	314.19	4,311.69	5,889.61	-7,834.99	9,704.75	0.93	0.80	-0.47	
14,813.00	88.51	315.95	4,312.37	5,956.15	-7,901.36	9,798.74	2.96	-2.29	1.87	
14,907.00	88.20	316.48	4,315.07	6,023.98	-7,966.38	9,892.68	0.65	-0.33	0.56	
15,001.00	88.11	315.42	4,318.09	6,091.51	-8,031.70	9,986.62	1.13	-0.10	-1.13	
15,096.00	88.11	314.89	4,321.23	6,158.83	-8,098.66	10,081.57	0.56	0.00	-0.56	
15,191.00	87.93	314.54	4,324.51	6,225.63	-8,166.13	10,176.51	0.41	-0.19	-0.37	
Survey @ 15191.00 MD 4324.51 TVD										
15,234.00	87.93	314.54	4,326.06	6,255.77	-8,196.76	10,219.48	0.00	0.00	0.00	
Frac sleeve @ 15234.00 MD 4326.06 TVD										
15,348.00	87.93	314.54	4,330.18	6,335.68	-8,277.96	10,333.40	0.00	0.00	0.00	
Survey Proj. to 15348 MD 4330.18 TVD 365 ft perp										

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,776.00	2,620.87		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	-0.99	-2.72	MWD surveys
2,776.00	2,620.87	-649.45	-190.34	9 5/8" Casing @ 2776.00 MD 2620.87 TVD
4,624.00	4,164.03	-1,191.58	-675.93	FTP MNCS-Cms top @ 4624 MD 4164.03 TVD
15,191.00	4,324.51	6,225.63	-8,166.13	Survey @ 15191.00 MD 4324.51 TVD
15,234.00	4,326.06	6,255.77	-8,196.76	Frac sleeve @ 15234.00 MD 4326.06 TVD
15,348.00	4,330.18	6,335.68	-8,277.96	Survey Proj. to 15348 MD 4330.18 TVD 365 ft perp



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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. 724H, Surf loc: 2549 FSL 2076 FEL Section 23-T23N-R09W		
Well Position	+N/-S	0.00 ft	Northing: 1,896,535.879 usft
	+E/-W	0.00 ft	Easting: 2,745,830.716 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.212168000
		Longitude:	-107.756250000
		Ground Level:	6,719.00 ft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	10/6/2021	8.776
			Dip Angle (°)
			62.736
			Field Strength (nT)
			49,266.78831977

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	2,667.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard
2,736.00	15,191.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
15,348.00	15,348.00	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	1,896,535.879	2,745,830.716	36.212168000	-107.756250000
419.00	0.79	250.04	418.99	-0.99	-2.72	1,896,534.893	2,745,828.001	36.212165297	-107.756259206
MWD surveys									
479.00	1.14	259.80	478.98	-1.23	-3.69	1,896,534.646	2,745,827.025	36.212164621	-107.756262516
570.00	2.33	224.20	569.94	-2.72	-5.87	1,896,533.160	2,745,824.844	36.212160542	-107.756269912
662.00	2.77	223.76	661.85	-5.67	-8.71	1,896,530.214	2,745,822.003	36.212152455	-107.756279552
753.00	2.72	227.19	752.74	-8.72	-11.82	1,896,527.158	2,745,818.898	36.212144068	-107.756290085
845.00	2.50	225.87	844.65	-11.60	-14.86	1,896,524.278	2,745,815.857	36.212136161	-107.756300404
934.00	2.20	226.05	933.57	-14.14	-17.48	1,896,521.741	2,745,813.234	36.212129197	-107.756309303
1,026.00	2.11	222.71	1,025.51	-16.61	-19.90	1,896,519.271	2,745,810.814	36.212122417	-107.756317513



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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
1,117.00	4.35	212.69	1,116.36	-20.74	-22.90	1,896,515.135	2,745,807.813	36.212111062	-107.756327696
1,208.00	7.56	204.16	1,206.86	-29.11	-27.22	1,896,506.766	2,745,803.498	36.212088082	-107.756342347
1,296.00	10.11	199.50	1,293.80	-41.68	-32.17	1,896,494.201	2,745,798.549	36.212053576	-107.756359155
1,387.00	12.00	194.76	1,383.11	-58.36	-37.24	1,896,477.523	2,745,793.473	36.212007770	-107.756376410
1,479.00	14.28	193.44	1,472.70	-78.64	-42.32	1,896,457.236	2,745,788.398	36.211952052	-107.756393666
1,571.00	16.74	194.93	1,561.34	-102.49	-48.37	1,896,433.395	2,745,782.346	36.211886570	-107.756414245
1,663.00	18.94	195.72	1,648.91	-129.66	-55.83	1,896,406.217	2,745,774.887	36.211811927	-107.756439606
1,753.00	21.01	195.72	1,733.49	-159.26	-64.16	1,896,376.624	2,745,766.557	36.211730650	-107.756467921
1,843.00	23.55	195.02	1,816.77	-192.16	-73.19	1,896,343.723	2,745,757.525	36.211640286	-107.756498628
1,936.00	27.25	194.41	1,900.76	-230.74	-83.31	1,896,305.144	2,745,747.408	36.211534328	-107.756533027
2,027.00	30.19	193.26	1,980.56	-273.19	-93.74	1,896,262.686	2,745,736.973	36.211417715	-107.756568514
2,117.00	31.73	193.79	2,057.74	-318.21	-104.58	1,896,217.673	2,745,726.141	36.211294085	-107.756605355
2,208.00	31.46	194.23	2,135.25	-364.46	-116.12	1,896,171.415	2,745,714.600	36.211167036	-107.756644602
2,300.00	31.33	193.97	2,213.78	-410.95	-127.79	1,896,124.934	2,745,702.924	36.211039371	-107.756684305
2,392.00	31.99	194.58	2,292.09	-457.74	-139.70	1,896,078.137	2,745,691.015	36.210910843	-107.756724800
2,483.00	32.17	194.76	2,369.19	-504.50	-151.94	1,896,031.383	2,745,678.775	36.210782430	-107.756766416
2,575.00	31.51	195.11	2,447.35	-551.39	-164.45	1,895,984.488	2,745,666.268	36.210653633	-107.756808939
2,667.00	30.23	194.76	2,526.31	-597.00	-176.62	1,895,938.880	2,745,654.100	36.210528370	-107.756850308
2,736.00	29.71	194.58	2,586.09	-630.35	-185.35	1,895,905.535	2,745,645.371	36.210436788	-107.756879989
2,776.00	29.45	194.70	2,620.87	-649.45	-190.34	1,895,886.432	2,745,640.380	36.210384319	-107.756896958
9 5/8" Casing @ 2776.00 MD 2620.87 TVD									
2,817.00	29.18	194.83	2,656.62	-668.86	-195.45	1,895,867.021	2,745,635.264	36.210331007	-107.756914353
2,911.00	29.66	193.96	2,738.50	-713.58	-206.93	1,895,822.298	2,745,623.788	36.210208173	-107.756953374
3,006.00	29.93	193.69	2,820.94	-759.42	-218.21	1,895,776.460	2,745,612.508	36.210082277	-107.756991732
3,100.00	31.60	196.07	2,901.72	-805.87	-230.58	1,895,730.006	2,745,600.140	36.209954690	-107.757033783
3,194.00	31.42	194.75	2,981.86	-853.23	-243.63	1,895,682.647	2,745,587.084	36.209824617	-107.757078164
3,287.00	30.67	194.83	3,061.53	-899.61	-255.88	1,895,636.275	2,745,574.841	36.209697256	-107.757119789
3,381.00	33.49	194.66	3,141.17	-947.88	-268.58	1,895,588.000	2,745,562.139	36.209564666	-107.757162976
3,475.00	33.35	194.22	3,219.63	-998.02	-281.49	1,895,537.863	2,745,549.228	36.209426964	-107.757206873
3,570.00	31.07	192.73	3,300.01	-1,047.25	-293.31	1,895,488.631	2,745,537.410	36.209291745	-107.757247065
3,665.00	28.74	191.93	3,382.35	-1,093.51	-303.43	1,895,442.367	2,745,527.286	36.209164675	-107.757281508
3,760.00	30.10	193.25	3,465.10	-1,139.05	-313.61	1,895,396.830	2,745,517.104	36.209039603	-107.757316144
3,823.00	31.33	194.31	3,519.26	-1,170.30	-321.28	1,895,365.581	2,745,509.434	36.208953775	-107.757342224
3,854.00	32.78	193.78	3,545.53	-1,186.26	-325.27	1,895,349.621	2,745,505.443	36.208909938	-107.757355796
3,886.00	32.43	195.19	3,572.49	-1,202.96	-329.59	1,895,332.927	2,745,501.131	36.208864087	-107.757370456
3,917.00	30.28	199.67	3,598.97	-1,218.34	-334.40	1,895,317.541	2,745,496.322	36.208821833	-107.757386801
3,949.00	28.26	205.47	3,626.89	-1,232.78	-340.37	1,895,303.101	2,745,490.346	36.208782177	-107.757407094
3,980.00	26.46	211.53	3,654.42	-1,245.30	-347.14	1,895,290.585	2,745,483.577	36.208747809	-107.757430074
4,012.00	25.22	219.00	3,683.23	-1,256.68	-355.16	1,895,279.207	2,745,475.556	36.208716569	-107.757457294
4,043.00	24.48	227.09	3,711.37	-1,266.18	-364.02	1,895,269.698	2,745,466.693	36.208690467	-107.757487363
4,075.00	23.86	234.21	3,740.57	-1,274.48	-374.13	1,895,261.397	2,745,456.584	36.208667686	-107.757521649
4,106.00	24.04	243.79	3,768.91	-1,280.94	-384.89	1,895,254.939	2,745,445.829	36.208649968	-107.757558123
4,138.00	23.99	249.06	3,798.14	-1,286.15	-396.81	1,895,249.735	2,745,433.905	36.208635697	-107.757598559
4,169.00	24.61	255.04	3,826.40	-1,290.07	-408.94	1,895,245.816	2,745,421.781	36.208624957	-107.757639666
4,200.00	25.88	262.95	3,854.45	-1,292.56	-421.89	1,895,243.319	2,745,408.826	36.208618124	-107.757683586
4,231.00	27.33	267.87	3,882.17	-1,293.66	-435.72	1,895,242.223	2,745,394.998	36.208615145	-107.757730463
4,263.00	28.83	274.02	3,910.41	-1,293.39	-450.76	1,895,242.491	2,745,379.957	36.208615913	-107.757781448
4,295.00	30.98	279.47	3,938.15	-1,291.49	-466.59	1,895,244.388	2,745,364.132	36.208621157	-107.757835085
4,326.00	32.96	283.60	3,964.45	-1,288.20	-482.65	1,895,247.684	2,745,348.062	36.208630247	-107.757889549
4,357.00	36.17	287.12	3,989.98	-1,283.52	-499.60	1,895,252.362	2,745,331.117	36.208643133	-107.757946976
4,389.00	39.20	289.76	4,015.30	-1,277.32	-518.15	1,895,258.562	2,745,312.570	36.208660205	-107.758009829
4,420.00	42.14	292.22	4,038.81	-1,270.07	-537.00	1,895,265.809	2,745,293.718	36.208680153	-107.758073715
4,452.00	45.31	295.12	4,061.94	-1,261.18	-557.24	1,895,274.701	2,745,273.474	36.208704622	-107.758142314
4,483.00	48.08	297.84	4,083.20	-1,251.11	-577.42	1,895,284.767	2,745,253.293	36.208732320	-107.758210697
4,515.00	51.02	299.51	4,103.96	-1,239.43	-598.78	1,895,296.457	2,745,231.936	36.208764477	-107.758283062



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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
4,546.00	54.54	301.01	4,122.71	-1,226.98	-620.10	1,895,308.901	2,745,210.622	36.208798707	-107.758355279
4,578.00	57.83	301.97	4,140.51	-1,213.09	-642.76	1,895,322.790	2,745,187.956	36.208836909	-107.758432074
4,609.00	59.94	303.29	4,156.53	-1,198.78	-665.11	1,895,337.102	2,745,165.609	36.208876274	-107.758507789
4,624.00	60.13	303.95	4,164.03	-1,191.58	-675.93	1,895,344.297	2,745,154.788	36.208896063	-107.758544450
FTP MNCS-Cms top @ 4624 MD 4164.03 TVD									
4,641.00	60.34	304.70	4,172.47	-1,183.26	-688.12	1,895,352.618	2,745,142.601	36.208918948	-107.758585737
4,672.00	60.29	304.70	4,187.82	-1,167.93	-710.26	1,895,367.950	2,745,120.460	36.208961112	-107.758660752
4,704.00	62.53	306.37	4,203.13	-1,151.60	-733.12	1,895,384.282	2,745,097.600	36.209006027	-107.758738200
4,735.00	66.14	307.42	4,216.56	-1,134.82	-755.46	1,895,401.057	2,745,075.260	36.209052156	-107.758813882
4,766.00	69.48	309.18	4,228.26	-1,117.03	-777.98	1,895,418.848	2,745,052.742	36.209101076	-107.758890168
4,798.00	72.73	310.59	4,238.62	-1,097.62	-801.20	1,895,438.262	2,745,029.516	36.209154457	-107.758968846
4,829.00	76.25	311.99	4,246.91	-1,077.91	-823.64	1,895,457.971	2,745,007.078	36.209208649	-107.759044856
4,861.00	79.76	313.22	4,253.56	-1,056.72	-846.67	1,895,479.158	2,744,984.045	36.209266900	-107.759122879
4,892.00	83.58	313.93	4,258.05	-1,035.58	-868.89	1,895,500.298	2,744,961.828	36.209325019	-107.759198134
4,924.00	87.19	315.33	4,260.63	-1,013.18	-891.58	1,895,522.702	2,744,939.134	36.209386613	-107.759275005
4,955.00	88.64	316.21	4,261.76	-990.98	-913.19	1,895,544.899	2,744,917.525	36.209447637	-107.759348195
4,986.00	88.68	316.30	4,262.48	-968.59	-934.62	1,895,567.288	2,744,896.096	36.209509186	-107.759420778
5,081.00	87.93	316.12	4,265.29	-900.04	-1,000.33	1,895,635.836	2,744,830.384	36.209697632	-107.759643352
5,175.00	90.79	316.65	4,266.34	-832.00	-1,065.17	1,895,703.880	2,744,765.553	36.209884689	-107.759862941
5,270.00	91.01	317.18	4,264.85	-762.63	-1,130.05	1,895,773.253	2,744,700.669	36.210075400	-107.760082709
5,364.00	90.92	314.98	4,263.26	-694.93	-1,195.24	1,895,840.949	2,744,635.479	36.210261500	-107.760303519
5,459.00	91.27	314.54	4,261.45	-628.05	-1,262.68	1,895,907.829	2,744,568.036	36.210445366	-107.760531969
5,553.00	91.19	314.45	4,259.43	-562.19	-1,329.72	1,895,973.693	2,744,501.000	36.210626440	-107.760759042
5,647.00	91.23	313.75	4,257.45	-496.79	-1,397.21	1,896,039.094	2,744,433.512	36.210806240	-107.760987651
5,742.00	91.62	313.22	4,255.08	-431.43	-1,466.11	1,896,104.449	2,744,364.606	36.210985918	-107.761221067
5,836.00	88.95	314.45	4,254.62	-366.34	-1,533.91	1,896,169.544	2,744,296.809	36.211164878	-107.761450726
5,950.00	88.73	313.92	4,256.92	-286.90	-1,615.64	1,896,248.983	2,744,215.077	36.211383270	-107.761727585
6,044.00	88.20	313.14	4,259.44	-222.18	-1,683.77	1,896,313.700	2,744,146.951	36.211561191	-107.761958362
6,138.00	88.07	312.78	4,262.50	-158.15	-1,752.52	1,896,377.725	2,744,078.196	36.211737215	-107.762191275
6,233.00	87.76	313.14	4,265.96	-93.46	-1,822.00	1,896,442.423	2,744,008.719	36.211915086	-107.762426635
6,327.00	87.71	312.43	4,269.67	-29.66	-1,890.93	1,896,506.222	2,743,939.786	36.212090487	-107.762660153
6,422.00	87.54	312.34	4,273.61	34.33	-1,961.04	1,896,570.208	2,743,869.676	36.212266400	-107.762897660
6,516.00	89.34	314.89	4,276.17	99.14	-2,029.07	1,896,635.018	2,743,801.655	36.212444576	-107.763128086
6,611.00	89.08	315.16	4,277.48	166.34	-2,096.20	1,896,702.216	2,743,734.516	36.212629308	-107.763355518
6,706.00	92.55	316.48	4,276.13	234.45	-2,162.39	1,896,770.326	2,743,668.327	36.212816545	-107.763579727
6,800.00	92.94	315.86	4,271.63	302.18	-2,227.42	1,896,838.059	2,743,603.306	36.213002742	-107.763799982
6,895.00	93.30	316.12	4,266.45	370.40	-2,293.32	1,896,906.283	2,743,537.399	36.213190290	-107.764023235
6,989.00	91.01	315.33	4,262.92	437.66	-2,358.89	1,896,973.534	2,743,471.829	36.213375163	-107.764245354
7,084.00	91.14	315.68	4,261.14	505.41	-2,425.46	1,897,041.287	2,743,405.260	36.213561415	-107.764470856
7,178.00	91.45	315.42	4,259.01	572.49	-2,491.27	1,897,108.372	2,743,339.451	36.213745834	-107.764693788
7,272.00	91.93	315.33	4,256.24	639.37	-2,557.27	1,897,175.244	2,743,273.448	36.213929666	-107.764917375
7,367.00	91.98	315.33	4,253.00	706.89	-2,624.02	1,897,242.766	2,743,206.700	36.214115283	-107.765143489
7,461.00	89.96	314.81	4,251.41	773.42	-2,690.40	1,897,309.302	2,743,140.326	36.214298191	-107.765368337
7,555.00	90.18	314.54	4,251.29	839.51	-2,757.24	1,897,375.391	2,743,073.483	36.214479874	-107.765594781
7,650.00	90.62	313.93	4,250.63	905.78	-2,825.30	1,897,441.661	2,743,005.419	36.214662055	-107.765825361
7,744.00	90.75	313.31	4,249.51	970.63	-2,893.35	1,897,506.504	2,742,937.375	36.214840314	-107.766055879
7,838.00	88.51	315.07	4,250.11	1,036.14	-2,960.74	1,897,572.018	2,742,869.982	36.215020414	-107.766284188
7,933.00	88.90	315.16	4,252.26	1,103.43	-3,027.76	1,897,639.310	2,742,802.959	36.215205399	-107.766511240
8,027.00	88.59	313.93	4,254.32	1,169.35	-3,094.74	1,897,705.231	2,742,735.983	36.215386617	-107.766738139
8,122.00	88.46	313.40	4,256.77	1,234.92	-3,163.44	1,897,770.801	2,742,667.284	36.215566872	-107.766970879
8,216.00	88.20	312.70	4,259.51	1,299.06	-3,232.10	1,897,834.941	2,742,598.623	36.215743200	-107.767203497
8,311.00	87.89	312.08	4,262.75	1,363.07	-3,302.22	1,897,898.949	2,742,528.500	36.215919169	-107.767441070
8,405.00	89.60	314.45	4,264.81	1,427.48	-3,370.65	1,897,963.352	2,742,460.074	36.216096218	-107.767672890
8,499.00	90.00	314.63	4,265.13	1,493.41	-3,437.65	1,898,029.284	2,742,393.075	36.216277462	-107.767899871
8,594.00	90.35	314.10	4,264.84	1,559.83	-3,505.56	1,898,095.710	2,742,325.161	36.216460066	-107.768129956



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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
8,688.00	90.97	314.45	4,263.76	1,625.45	-3,572.86	1,898,161.326	2,742,257.862	36.216640445	-107.768357956
8,783.00	90.97	313.66	4,262.15	1,691.50	-3,641.13	1,898,227.374	2,742,189.599	36.216822011	-107.768589226
8,877.00	90.88	313.58	4,260.63	1,756.34	-3,709.17	1,898,292.214	2,742,121.558	36.217000255	-107.768819745
8,971.00	90.70	312.61	4,259.34	1,820.55	-3,777.80	1,898,356.428	2,742,052.925	36.217176784	-107.769052275
9,065.00	89.08	315.33	4,259.52	1,885.81	-3,845.44	1,898,421.682	2,741,985.281	36.217356166	-107.769281449
9,159.00	88.95	314.28	4,261.14	1,952.04	-3,912.13	1,898,487.913	2,741,918.599	36.217538228	-107.769507365
9,253.00	88.55	312.78	4,263.19	2,016.76	-3,980.26	1,898,552.636	2,741,850.466	36.217716153	-107.769738200
9,347.00	88.99	315.86	4,265.20	2,082.41	-4,047.49	1,898,618.288	2,741,783.238	36.217896624	-107.769965968
9,441.00	88.51	315.51	4,267.25	2,149.65	-4,113.14	1,898,685.529	2,741,717.585	36.218081460	-107.770188392
9,535.00	88.42	315.25	4,269.77	2,216.54	-4,179.14	1,898,752.412	2,741,651.583	36.218265313	-107.770412002
9,629.00	89.25	317.62	4,271.68	2,284.63	-4,243.91	1,898,820.505	2,741,586.819	36.218452484	-107.770631413
9,723.00	89.43	317.44	4,272.77	2,353.96	-4,307.37	1,898,889.837	2,741,523.355	36.218643059	-107.770846419
9,818.00	89.82	317.09	4,273.39	2,423.74	-4,371.84	1,898,959.613	2,741,458.889	36.218834853	-107.771064819
9,912.00	90.44	317.27	4,273.18	2,492.69	-4,435.73	1,899,028.561	2,741,394.998	36.219024371	-107.771281272
10,006.00	90.57	316.56	4,272.35	2,561.34	-4,499.93	1,899,097.209	2,741,330.791	36.219213068	-107.771498798
10,101.00	90.31	315.86	4,271.62	2,629.91	-4,565.67	1,899,165.785	2,741,265.052	36.219401568	-107.771721519
10,195.00	90.18	315.86	4,271.22	2,697.37	-4,631.14	1,899,233.243	2,741,199.590	36.219586994	-107.771943306
10,289.00	89.82	315.07	4,271.22	2,764.37	-4,697.06	1,899,300.247	2,741,133.664	36.219771176	-107.772166666
10,383.00	89.96	314.80	4,271.40	2,830.77	-4,763.61	1,899,366.640	2,741,067.121	36.219953677	-107.772392121
10,477.00	89.87	314.54	4,271.54	2,896.85	-4,830.45	1,899,432.723	2,741,000.271	36.220135330	-107.772618617
10,572.00	89.74	314.37	4,271.86	2,963.38	-4,898.27	1,899,499.256	2,740,932.461	36.220318218	-107.772848371
10,666.00	89.87	313.58	4,272.18	3,028.65	-4,965.91	1,899,564.523	2,740,864.816	36.220497629	-107.773077568
10,760.00	88.68	315.60	4,273.37	3,094.63	-5,032.84	1,899,630.504	2,740,797.884	36.220678998	-107.773304347
10,855.00	88.55	315.07	4,275.66	3,162.18	-5,099.60	1,899,698.050	2,740,731.122	36.220864668	-107.773530545
10,950.00	88.20	314.28	4,278.36	3,228.94	-5,167.13	1,899,764.816	2,740,663.595	36.221048193	-107.773759342
11,044.00	88.37	316.30	4,281.17	3,295.71	-5,233.23	1,899,831.586	2,740,597.498	36.221231728	-107.773983294
11,138.00	88.02	315.86	4,284.13	3,363.39	-5,298.40	1,899,899.261	2,740,532.327	36.221417747	-107.774204102
11,233.00	88.42	316.12	4,287.08	3,431.68	-5,364.37	1,899,967.554	2,740,466.355	36.221605463	-107.774427627
11,327.00	88.29	315.60	4,289.78	3,499.11	-5,429.81	1,900,034.984	2,740,400.919	36.221790808	-107.774649336
11,421.00	89.03	315.95	4,291.98	3,566.45	-5,495.35	1,900,102.325	2,740,335.375	36.221975911	-107.774871415
11,516.30	89.12	315.16	4,293.52	3,634.48	-5,562.07	1,900,170.353	2,740,268.653	36.222162899	-107.775097486
11,611.00	89.52	314.72	4,294.64	3,701.37	-5,629.10	1,900,237.240	2,740,201.625	36.222346756	-107.775324598
11,705.00	89.74	314.54	4,295.25	3,767.40	-5,696.00	1,900,303.276	2,740,134.731	36.222528272	-107.775551259
11,799.00	89.96	313.66	4,295.50	3,832.82	-5,763.50	1,900,368.691	2,740,067.228	36.222708083	-107.775779986
11,894.00	88.81	315.25	4,296.52	3,899.35	-5,831.30	1,900,435.217	2,739,999.424	36.222890946	-107.776009732
11,988.00	88.77	315.42	4,298.50	3,966.19	-5,897.37	1,900,502.057	2,739,933.361	36.223074670	-107.776233578
12,083.00	89.38	314.89	4,300.03	4,033.53	-5,964.35	1,900,569.404	2,739,866.377	36.223259786	-107.776460545
12,177.00	89.82	313.93	4,300.69	4,099.31	-6,031.50	1,900,635.182	2,739,799.231	36.223440591	-107.776688066
12,272.00	88.81	316.12	4,301.83	4,166.51	-6,098.63	1,900,702.376	2,739,732.095	36.223625288	-107.776915552
12,367.00	87.80	315.51	4,304.64	4,234.60	-6,164.82	1,900,770.469	2,739,665.912	36.223812450	-107.777139803
12,461.00	87.63	315.16	4,308.38	4,301.40	-6,230.84	1,900,837.271	2,739,599.887	36.223996067	-107.777363526
12,555.00	87.93	314.98	4,312.03	4,367.90	-6,297.18	1,900,903.770	2,739,533.550	36.224178850	-107.777588306
12,649.00	87.71	314.37	4,315.60	4,433.94	-6,363.97	1,900,969.812	2,739,466.755	36.224360378	-107.777814641
12,743.00	89.12	316.04	4,318.20	4,500.62	-6,430.17	1,901,036.488	2,739,400.555	36.224543646	-107.778038959
12,837.00	90.97	315.42	4,318.13	4,567.92	-6,495.79	1,901,103.794	2,739,334.942	36.224728645	-107.778261285
12,932.00	91.45	314.89	4,316.12	4,635.27	-6,562.77	1,901,171.135	2,739,267.965	36.224913741	-107.778488240
13,026.00	91.71	314.19	4,313.53	4,701.17	-6,629.74	1,901,237.042	2,739,200.991	36.225094896	-107.778715185
13,120.00	92.02	314.01	4,310.47	4,766.55	-6,697.21	1,901,302.422	2,739,133.524	36.225274608	-107.778943808
13,214.00	91.98	313.66	4,307.19	4,831.62	-6,764.97	1,901,367.485	2,739,065.759	36.225453446	-107.779173437
13,309.00	90.09	315.16	4,305.47	4,898.08	-6,832.82	1,901,433.950	2,738,997.913	36.225636133	-107.779403345
13,403.00	89.38	313.49	4,305.91	4,963.76	-6,900.06	1,901,499.627	2,738,930.670	36.225816656	-107.779631208
13,497.00	89.96	314.10	4,306.45	5,028.81	-6,967.91	1,901,564.680	2,738,862.821	36.225995467	-107.779861129
13,592.00	90.75	314.10	4,305.86	5,094.92	-7,036.13	1,901,630.790	2,738,794.601	36.226177180	-107.780092306
13,686.00	91.19	314.01	4,304.27	5,160.27	-7,103.68	1,901,696.143	2,738,727.055	36.226356813	-107.780321198
13,780.00	89.03	315.60	4,304.09	5,226.51	-7,170.36	1,901,762.378	2,738,660.368	36.226538866	-107.780547181



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 724H
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. 724H	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
13,874.00	89.08	315.51	4,305.64	5,293.61	-7,236.18	1,901,829.478	2,738,594.556	36.226723293	-107.780770195
13,968.00	89.08	314.80	4,307.15	5,360.25	-7,302.45	1,901,896.116	2,738,528.277	36.226906453	-107.780994794
14,063.00	89.74	314.45	4,308.13	5,426.98	-7,370.06	1,901,962.846	2,738,460.668	36.227089866	-107.781223905
14,157.00	90.48	314.28	4,307.95	5,492.70	-7,437.26	1,902,028.573	2,738,393.468	36.227270522	-107.781451630
14,252.00	91.01	313.84	4,306.71	5,558.76	-7,505.53	1,902,094.631	2,738,325.206	36.227452089	-107.781682957
14,346.00	88.73	315.86	4,306.92	5,625.05	-7,572.16	1,902,160.916	2,738,258.572	36.227634279	-107.781908764
14,440.00	88.33	315.95	4,309.34	5,692.54	-7,637.55	1,902,228.403	2,738,193.184	36.227819767	-107.782130346
14,531.00	89.12	315.16	4,311.36	5,757.49	-7,701.25	1,902,293.353	2,738,129.481	36.227998282	-107.782346223
14,625.00	89.91	314.63	4,312.16	5,823.83	-7,767.84	1,902,359.696	2,738,062.894	36.228180628	-107.782571872
14,719.00	90.66	314.19	4,311.69	5,889.61	-7,834.99	1,902,425.474	2,737,995.747	36.228361424	-107.782799426
14,813.00	88.51	315.95	4,312.37	5,956.15	-7,901.36	1,902,492.015	2,737,929.368	36.228544312	-107.783024372
14,907.00	88.20	316.48	4,315.07	6,023.98	-7,966.38	1,902,559.849	2,737,864.352	36.228730750	-107.783244699
15,001.00	88.11	315.42	4,318.09	6,091.51	-8,031.70	1,902,627.374	2,737,799.030	36.228916339	-107.783466064
15,096.00	88.11	314.89	4,321.23	6,158.83	-8,098.66	1,902,694.694	2,737,732.074	36.229101367	-107.783692971
15,191.00	87.93	314.54	4,324.51	6,225.63	-8,166.13	1,902,761.494	2,737,664.606	36.229284967	-107.783921615
Survey @ 15191.00 MD 4324.51 TVD									
15,234.00	87.93	314.54	4,326.06	6,255.77	-8,196.76	1,902,791.634	2,737,633.977	36.229367809	-107.784025414
Frac sleeve @ 15234.00 MD 4326.06 TVD									
15,348.00	87.93	314.54	4,330.18	6,335.68	-8,277.96	1,902,871.542	2,737,552.776	36.229587437	-107.784300603
Survey Proj. to 15348 MD 4330.18 TVD 365 ft perp									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,776.00	2,620.87		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	-0.99	-2.72	MWD surveys
2,776.00	2,620.87	-649.45	-190.34	9 5/8" Casing @ 2776.00 MD 2620.87 TVD
4,624.00	4,164.03	-1,191.58	-675.93	FTP MNCS-Cms top @ 4624 MD 4164.03 TVD
15,191.00	4,324.51	6,225.63	-8,166.13	Survey @ 15191.00 MD 4324.51 TVD
15,234.00	4,326.06	6,255.77	-8,196.76	Frac sleeve @ 15234.00 MD 4326.06 TVD
15,348.00	4,330.18	6,335.68	-8,277.96	Survey Proj. to 15348 MD 4330.18 TVD 365 ft perp

WELL NAME: W LYBROOK UNIT 724H**OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Cms formation****API Number:** 30-045-38261**AFE Number:** DV03014**ER Well Number:** NM06440.01**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 2,549 ft FSL 2,076 ft FEL**BH Location:** 15-23N-09W Sec-Twn- Rng 1664 ft FNL 237 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)	2,758 ft
KOP (MD)	3,897 ft
KOP (TVD)	3,574 ft
Target (TVD)	4,274 ft
Curve BUR	10 °/100 ft
POE (MD)	5,049 ft
TD (MD)	15,376 ft
Lat Len (ft)	10,327 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	2,758	9.625	36.0	J-55	LTC	0	2,758
Production	8.500	15,376	5.500	17.0	P-110	LTC	0	15,376

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	537
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,258	136
Prod. (Lead)	Type III	12.3	2.260	12.8	0.2691	65%	0	586
Prod. (Tail)	G:POZ blend	13.3	1.550	7.7	0.2291	10%	4,299	1,801

COMPLETION / PRODUCTION SUMMARY:**Frac:** 44 plug-and-perf stages with 310,000 bbls slickwater fluid and 12,000,000 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	1,420
Cliff House	2,481	2,616
Menefee	2,500	2,639
Point Lookout	3,444	3,745
Mancos	3,596	3,922
Gallup (MNCS_A)	3,926	4,299
MNCS_B	4,024	4,424
MNCS_C	4,117	4,564
MNCS_Cms	4,259	4,900
P.O.E. TARGET	4,274	5,049
PROJECTED TD	4,326	15,376

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 68754

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 68754
	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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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 68754

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 68754
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 4/7/2022	3/9/2022