

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 30-045-35843	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 321259	⁸ Property Name W LYBROOK UNIT		⁹ Well Number #730H

II. ¹⁰ Surface Location

UL or lot no. C	Section 27	Township 23N	Range 9W	Lot Idn	Feet from the 1141'	North/South Line North	Feet from the 2446'	East/West line West	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. B	Section 21	Township 23N	Range 9W	Lot Idn	Feet from the 163'	North/South line North	Feet from the 2134'	East/West line East	County San Juan
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 7/18/2022		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters


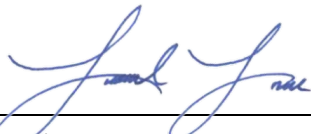
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	WESTERN REFINING COMPANY, LLC	O
373888	HARVEST FOUR CORNERS. LLC	G

IV. Well Completion Data

²¹ Spud Date 2/3/2022	²² Ready Date 7/18/2022	²³ TD 12834' MD 4591' TVD	²⁴ PBDT 12717.8' MD 4589' TVD	²⁵ Perforations ~ 4970' - 12718' MD ~ 4500' -4589' 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		360' MD		350 sx - surface
12-1/4"		9-5/8",36#, J-55		2566' MD		604 sx- surface
8-1/2"		5-1/2",17#, P-110		12834' MD		1934 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: 	
Printed name: Kayla White		Title: Petroleum Engineer	
Title: Associate Consultant, Environmental Engineer		Approval Date: 07/07/22	
E-mail Address: Kayla.N.White@wsp.com		COA: C-104 RT expires on 10/07/22	
Date: 5/10/2022	Phone: 720-768-3575		



ENDURING RESOURCES IV LLC

May 10, 2022

Re: W LYBROOK UNIT 730H-30-045-35843

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

Sincerely,

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

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

District I
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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Appropriate District Office

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Santa Fe, NM 87505

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35843	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 321259	⁵ Property Name W LYBROOK UNIT	⁶ Well Number 730H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6641'

¹⁰ Surface Location

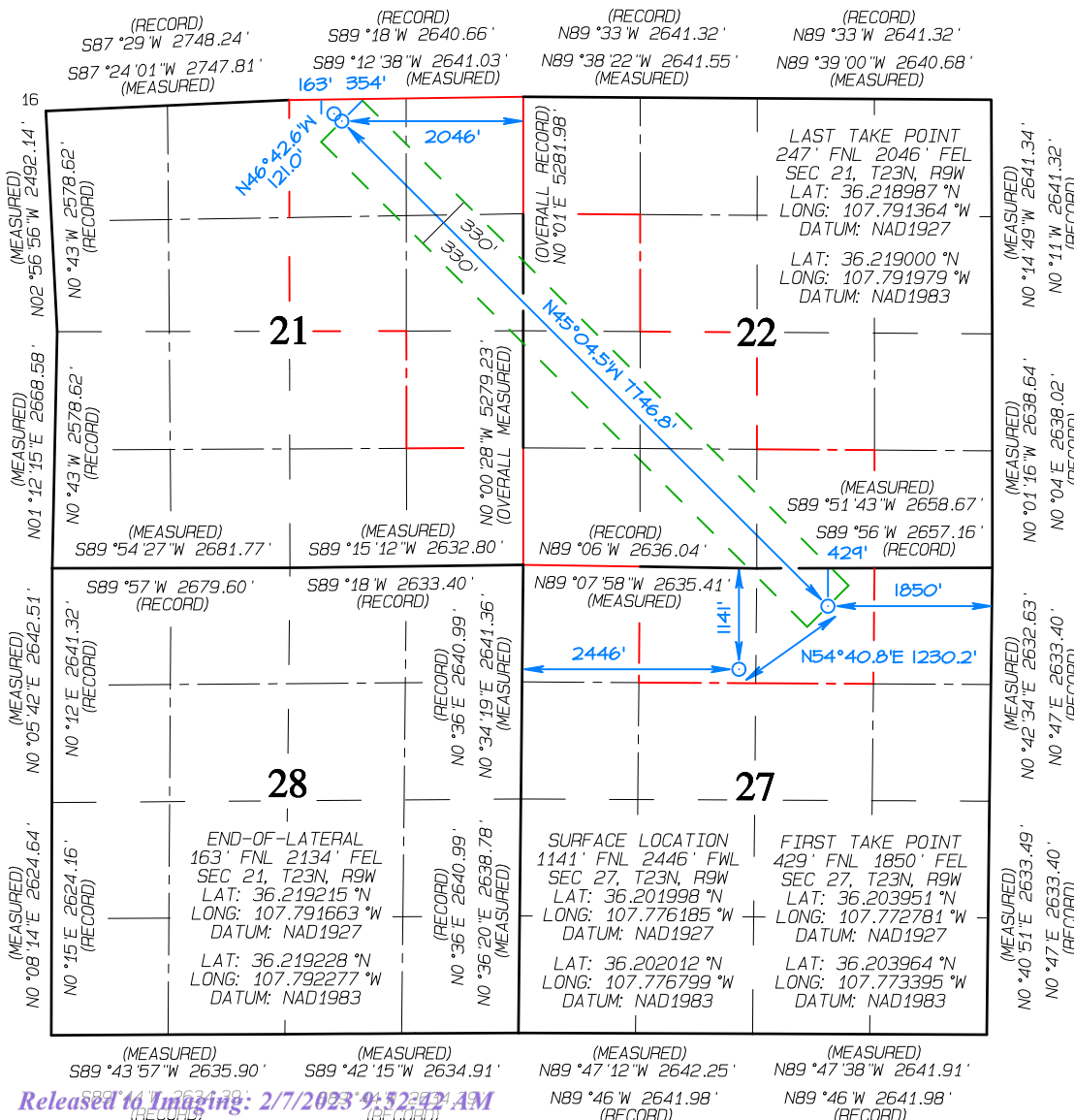
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	23N	9W		1141	NORTH	2446	WEST	SAN JUAN

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
B	21	23N	9W		163	NORTH	2134	EAST	SAN JUAN

¹² Dedicated Acres 520.00	SW/4 NW/4, SW/4 SW/4 SE/4 - Section 22 NE/4, NE/4 SE/4 - Section 21 NE/4 NW/4, NW/4 NE/4 - Section 27	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 DIVISION



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

Signature: Heather Huntington Date: 5-9-22
Printed Name: Heather Huntington
E-mail Address: hhuntington@enduringresources.com

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

Date Revised: MAY 9, 2022
Date of Survey: MARCH 10, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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⁴ Property Code 321259		⁵ Property Name W LYBROOK UNIT			⁶ Well Number 730H
⁷ GRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6641'

¹⁰ Surface Location

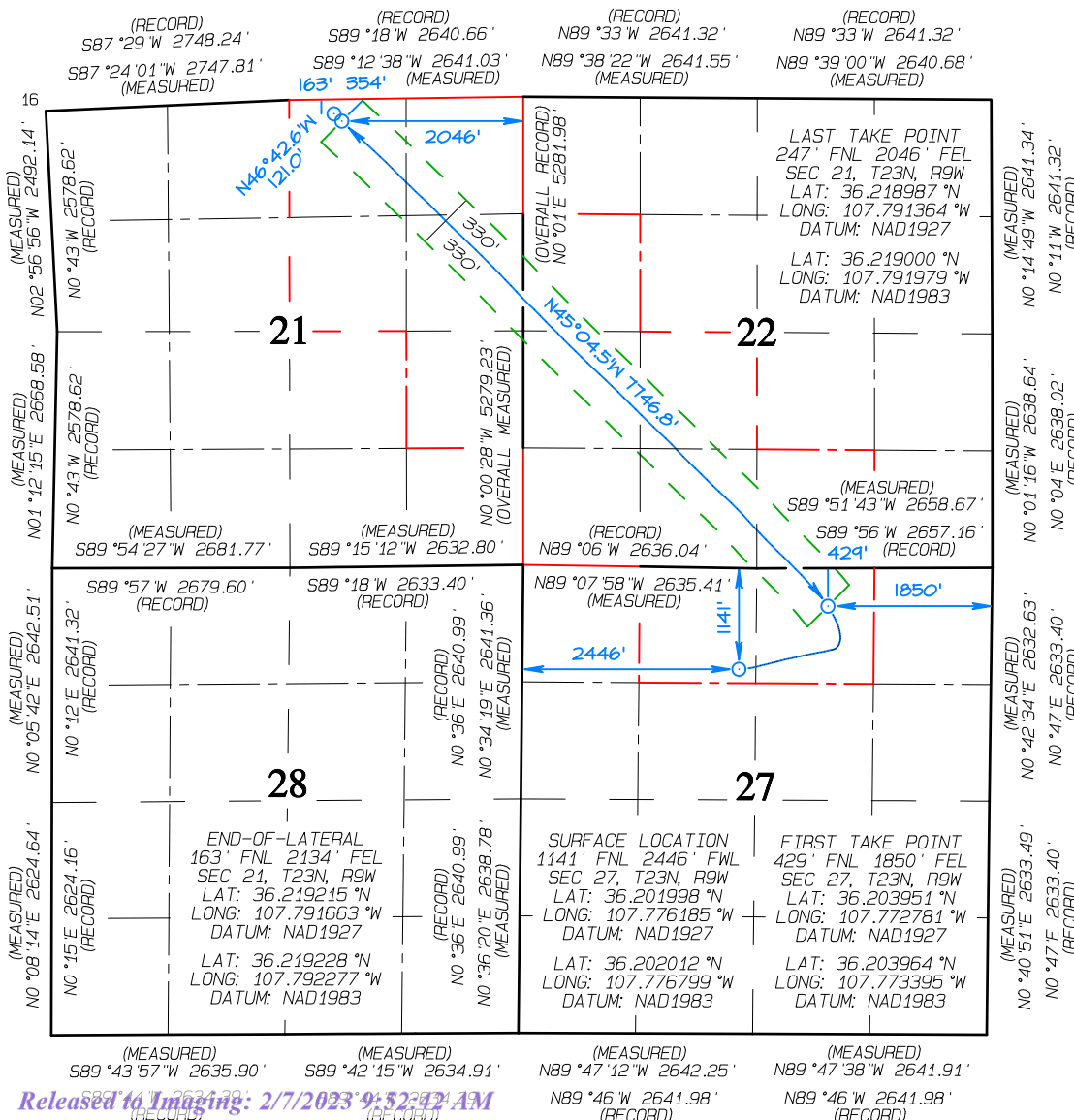
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Signature: Heather Huntington Date: 5-9-22
Printed Name: Heather Huntington
Email Address: hhuntington@enduringresources.com

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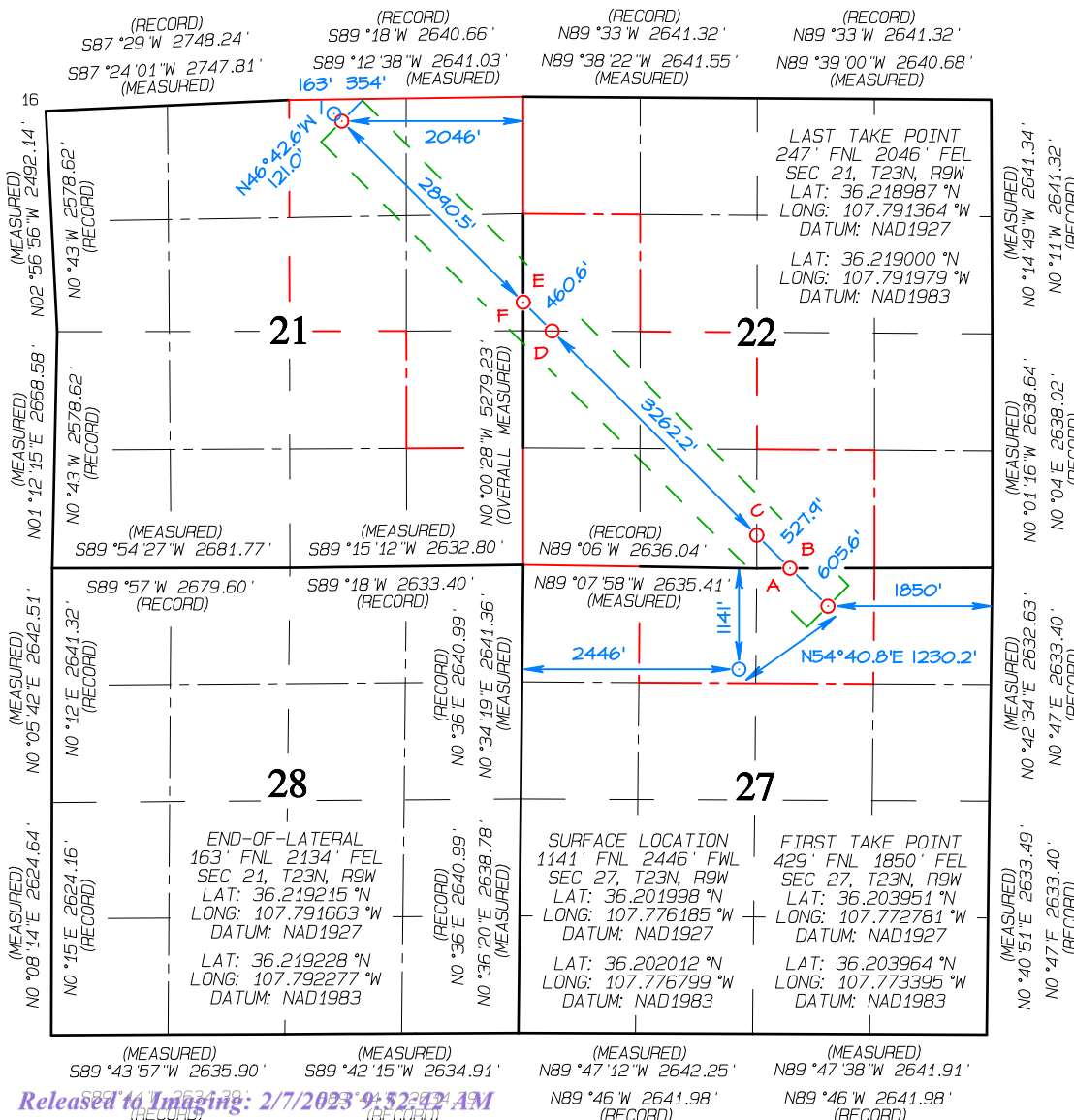
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Heather Huntington 5-9-22
Signature Date
Heather Huntington
Printed Name
hhuntington@enduringresources.com
E-mail Address

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Date Revised: MAY 9, 2022
Date of Survey: MARCH 10, 2016
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

(A) 0' FNL 2285' FEL
SEC 27, T23N, R9W
LAT: 36.205126 °N
LONG: 107.774234 °W
DATUM: NAD1927

LAT: 36.205139 °N
LONG: 107.774848 °W
DATUM: NAD1983

(B) 0' FSL 2285' FEL
SEC 22, T23N, R9W
LAT: 36.205126 °N
LONG: 107.774234 °W
DATUM: NAD1927

LAT: 36.205139 °N
LONG: 107.774848 °W
DATUM: NAD1983

(C) 374' FSL 2636' FWL
SEC 22, T23N, R9W
LAT: 36.206151 °N
LONG: 107.775500 °W
DATUM: NAD1927

LAT: 36.206164 °N
LONG: 107.776114 °W
DATUM: NAD1983

(D) 2642' FSL 326' FWL
SEC 22, T23N, R9W
LAT: 36.212483 °N
LONG: 107.783325 °W
DATUM: NAD1927

LAT: 36.212496 °N
LONG: 107.783939 °W
DATUM: NAD1983

(E) 2316' FNL 0' FWL
SEC 22, T23N, R9W
LAT: 36.213377 °N
LONG: 107.784430 °W
DATUM: NAD1927

LAT: 36.213390 °N
LONG: 107.785044 °W
DATUM: NAD1983

(F) 2316' FNL 0' FEL
SEC 21, T23N, R9W
LAT: 36.213377 °N
LONG: 107.784430 °W
DATUM: NAD1927

LAT: 36.213390 °N
LONG: 107.785044 °W
DATUM: NAD1983



Company: Enduring Resources LLC
Well: W Lybrook Unit No. 730H
Site: W Lybrook 730 Pad (730, 763, 830, 861 & 863)
Project: San Juan County, New Mexico NAD83 NM W
Design: Surveys Original Hole
Rig: Ensign 773

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
401.00	0.97	219.150	400.98	-2.63	-2.14	-0.36	MWD surveys
2557.00	27.61	75.795	2466.60	84.17	421.61	-237.36	9 5/8" Casing @ 2557 MD 2466.60 TVD
4967.23	70.16	327.003	4500.00	711.12	1003.76	-202.69	FTP G-top 4967.23 MD 4500.00 TVD
12704.00	88.85	313.290	4588.99	6168.68	-4467.41	7525.00	Survey @ 12704.00 MD 4588.99 TVD
12723.00	88.85	313.290	4589.37	6181.70	-4481.23	7543.99	LTP @ 12723 MD 4589.37 TVD
12737.00	88.85	313.290	4589.65	6191.30	-4491.42	7557.98	330 perp @ 12737.00 MD 4589.65 TVD
12844.00	88.85	313.290	4591.80	6264.66	-4569.29	7664.90	Survey Proj. to 12844 MD 4591.80 TVD 163 FNL 2134 FEL

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=6641+28 @ 6669.00ft (Ensign 773)

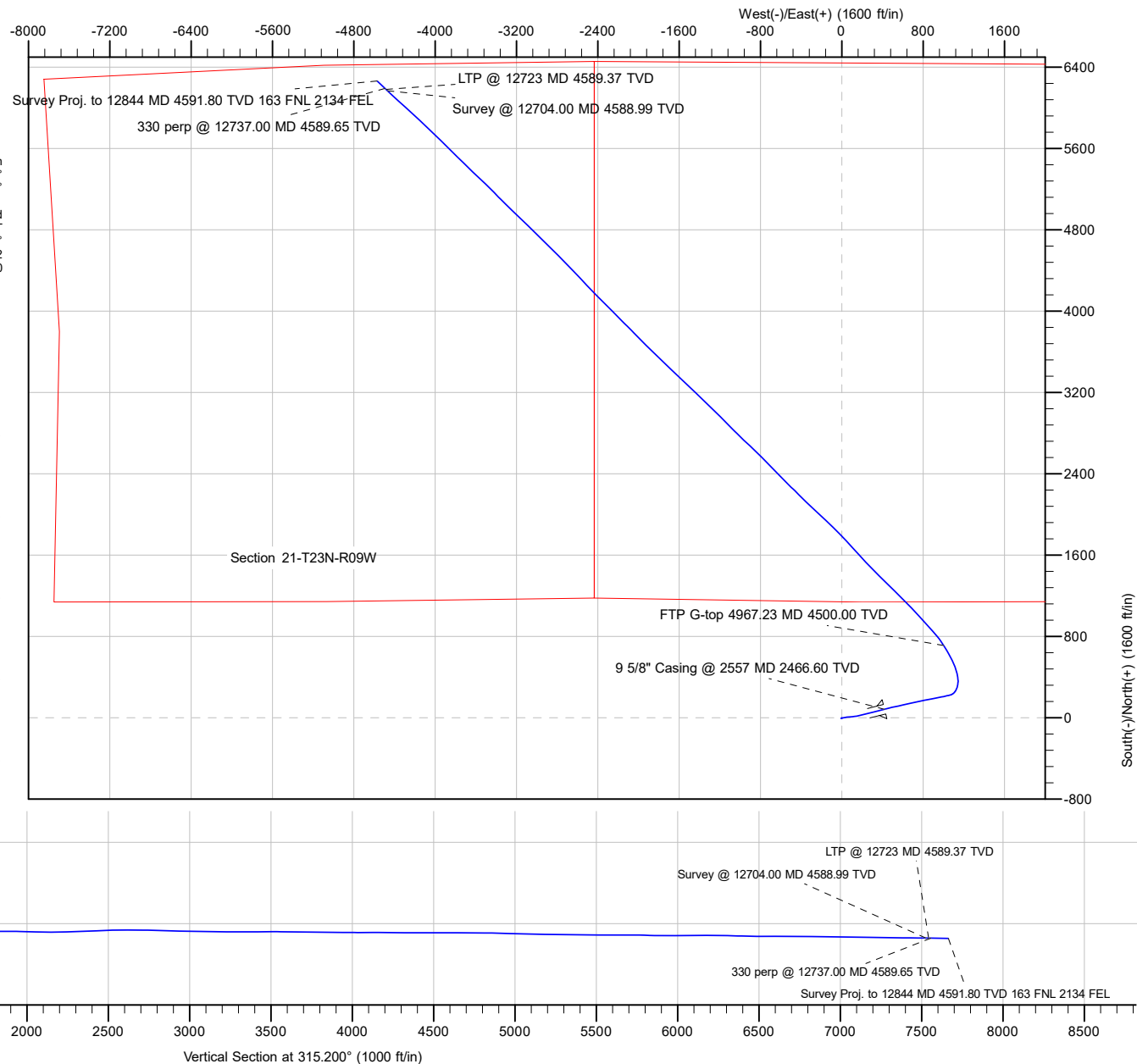
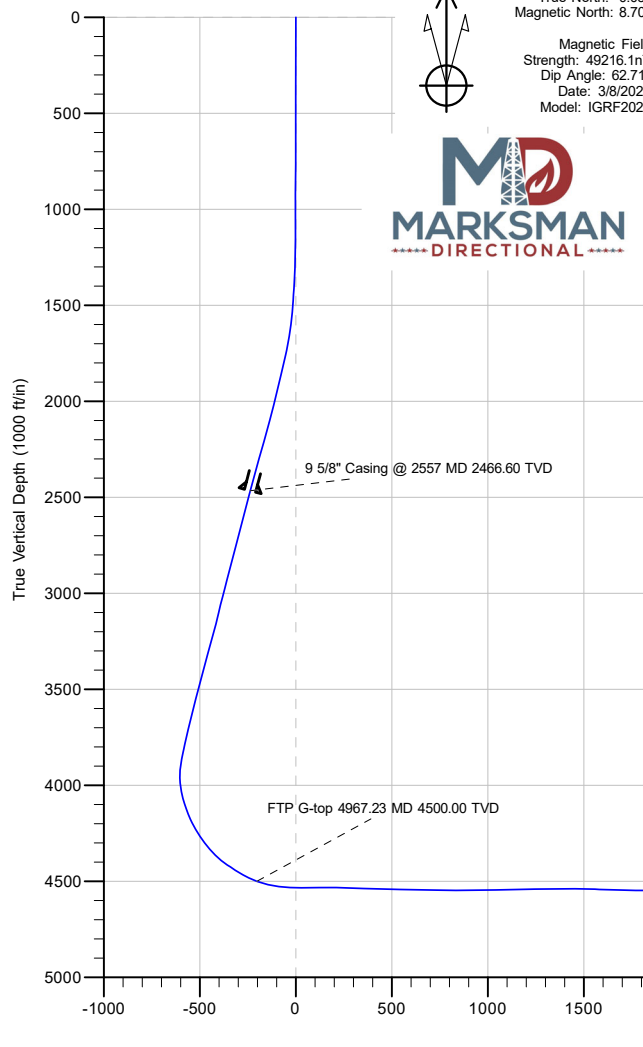
Northing 1892834.713 Easting 2739771.058 Latitude 36.202012000 Longitude -107.776799000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.70°



Azimuths to Grid North
 True North: -0.03°
 Magnetic North: 8.70°

Magnetic Field
 Strength: 49216.1nT
 Dip Angle: 62.71°
 Date: 3/8/2022
 Model: IGRF2020





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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 730 Pad (730, 763, 830, 861 & 863)				
Site Position:		Northing:	1,888,164.052 usft	Latitude:	36.189179000
From:	Lat/Long	Easting:	2,741,098.391 usft	Longitude:	-107.772310000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	W Lybrook Unit No. 730H					
Well Position	+N/-S	0.00 ft	Northing:	1,892,834.713 usft	Latitude:	36.202012000
	+E/-W	0.00 ft	Easting:	2,739,771.058 usft	Longitude:	-107.776799000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,641.00 ft
Grid Convergence:		0.03 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/8/2022	8.74	62.71	49,216.10701673

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	315.200	

Survey Program	Date	4/14/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
401.00	2,509.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,583.00	12,704.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
12,844.00	12,844.00	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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
401.00	0.97	219.150	400.98	-2.63	-2.14	-0.36	0.24	0.24	0.00	
MWD surveys										
493.00	0.70	216.780	492.97	-3.69	-2.97	-0.52	0.30	-0.29	-2.58	
584.00	0.70	230.490	583.96	-4.49	-3.73	-0.55	0.18	0.00	15.07	
675.00	0.53	211.590	674.96	-5.20	-4.38	-0.60	0.29	-0.19	-20.77	
766.00	0.44	214.230	765.96	-5.84	-4.80	-0.77	0.10	-0.10	2.90	
857.00	0.40	206.050	856.95	-6.42	-5.14	-0.94	0.08	-0.04	-8.99	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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)
948.00	0.44	201.480	947.95	-7.03	-5.40	-1.18	0.06	0.04	-5.02
1,039.00	0.31	230.400	1,038.95	-7.51	-5.72	-1.30	0.25	-0.14	31.78
1,132.00	1.23	49.870	1,131.94	-7.03	-5.15	-1.36	1.66	0.99	192.98
1,226.00	2.50	70.180	1,225.89	-5.68	-2.45	-2.31	1.50	1.35	21.61
1,320.00	4.53	70.620	1,319.71	-3.76	2.98	-4.77	2.16	2.16	0.47
1,414.00	6.72	75.010	1,413.25	-1.10	11.80	-9.09	2.37	2.33	4.67
1,508.00	8.75	76.940	1,506.39	1.94	24.07	-15.59	2.18	2.16	2.05
1,603.00	11.87	81.430	1,599.85	5.03	40.78	-25.17	3.39	3.28	4.73
1,697.00	15.95	84.410	1,691.07	7.73	63.20	-39.05	4.41	4.34	3.17
1,791.00	19.51	84.850	1,780.60	10.39	91.70	-57.24	3.79	3.79	0.47
1,886.00	21.75	83.710	1,869.50	13.75	125.00	-78.32	2.40	2.36	-1.20
1,981.00	23.55	78.170	1,957.18	19.57	161.08	-99.62	2.94	1.89	-5.83
2,075.00	26.32	76.060	2,042.41	28.44	199.69	-120.53	3.09	2.95	-2.24
2,170.00	28.70	75.450	2,126.66	39.25	242.22	-142.83	2.52	2.51	-0.64
2,264.00	29.14	76.150	2,208.94	50.39	286.28	-165.97	0.59	0.47	0.74
2,358.00	28.78	76.150	2,291.19	61.29	330.48	-189.37	0.38	-0.38	0.00
2,453.00	28.13	75.620	2,374.71	72.33	374.37	-212.48	0.73	-0.68	-0.56
2,509.00	27.95	76.150	2,424.13	78.75	399.90	-225.91	0.55	-0.32	0.95
2,557.00	27.61	75.795	2,466.60	84.17	421.61	-237.36	0.78	-0.70	-0.74
9 5/8" Casing @ 2557 MD 2466.60 TVD									
2,583.00	27.43	75.600	2,489.66	87.14	433.25	-243.45	0.78	-0.70	-0.75
2,677.00	25.95	74.530	2,573.64	98.01	474.05	-264.49	1.66	-1.57	-1.14
2,772.00	25.95	78.590	2,659.07	107.66	514.46	-286.11	1.87	0.00	4.27
2,867.00	26.65	78.320	2,744.24	116.09	555.69	-309.19	0.75	0.74	-0.28
2,982.00	26.63	77.550	2,847.03	126.87	606.12	-337.07	0.30	-0.02	-0.67
3,076.00	24.96	76.590	2,931.66	136.01	645.99	-358.68	1.83	-1.78	-1.02
3,170.00	26.23	77.620	3,016.43	145.06	685.57	-380.14	1.43	1.35	1.10
3,265.00	24.61	76.300	3,102.23	154.25	725.30	-401.62	1.81	-1.71	-1.39
3,359.00	26.45	79.650	3,187.06	162.65	764.91	-423.57	2.49	1.96	3.56
3,453.00	24.99	78.630	3,271.74	170.32	804.97	-446.36	1.62	-1.55	-1.09
3,547.00	26.27	79.210	3,356.49	178.13	844.88	-468.93	1.39	1.36	0.62
3,642.00	25.40	78.360	3,442.00	186.18	885.48	-491.84	1.00	-0.92	-0.89
3,736.00	25.33	79.070	3,526.93	194.06	924.97	-514.07	0.33	-0.07	0.76
3,830.00	24.90	78.890	3,612.05	201.69	964.13	-536.25	0.46	-0.46	-0.19
3,924.00	23.29	77.690	3,697.85	209.46	1,001.71	-557.21	1.79	-1.71	-1.28
4,019.00	23.26	76.620	3,785.12	217.81	1,038.31	-577.08	0.45	-0.03	-1.13
4,050.00	22.32	75.900	3,813.70	220.66	1,049.97	-583.28	3.16	-3.03	-2.32
4,082.00	23.33	75.960	3,843.20	223.67	1,062.01	-589.62	3.16	3.16	0.19
4,113.00	23.63	72.140	3,871.63	227.07	1,073.88	-595.57	5.00	0.97	-12.32
4,144.00	23.96	62.220	3,900.01	231.91	1,085.37	-600.23	12.94	1.06	-32.00
4,176.00	24.67	52.160	3,929.18	239.04	1,096.40	-602.95	13.12	2.22	-31.44
4,208.00	25.82	43.260	3,958.14	248.21	1,106.45	-603.52	12.38	3.59	-27.81
4,239.00	27.71	35.400	3,985.82	259.01	1,115.26	-602.06	12.93	6.10	-25.35
4,270.00	28.62	28.370	4,013.16	271.42	1,122.96	-598.69	11.09	2.94	-22.68



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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)
4,302.00	28.88	22.740	4,041.22	285.29	1,129.59	-593.51	8.50	0.81	-17.59
4,333.00	29.19	17.960	4,068.33	299.39	1,134.82	-587.19	7.55	1.00	-15.42
4,365.00	29.76	13.590	4,096.19	314.54	1,139.09	-579.46	6.95	1.78	-13.66
4,396.00	30.85	8.550	4,122.96	329.88	1,142.08	-570.68	8.92	3.52	-16.26
4,428.00	32.06	3.770	4,150.26	346.47	1,143.86	-560.16	8.66	3.78	-14.94
4,460.00	32.54	358.910	4,177.31	363.55	1,144.25	-548.32	8.25	1.50	-15.19
4,490.00	33.67	354.570	4,202.44	379.90	1,143.31	-536.05	8.75	3.77	-14.47
4,522.00	35.43	350.790	4,228.80	397.89	1,140.99	-521.65	8.67	5.50	-11.81
4,553.00	37.59	348.990	4,253.72	416.04	1,137.74	-506.48	7.78	6.97	-5.81
4,585.00	39.00	346.770	4,278.83	435.43	1,133.58	-489.79	6.16	4.41	-6.94
4,616.00	40.59	345.030	4,302.65	454.67	1,128.74	-472.73	6.26	5.13	-5.61
4,648.00	43.25	342.710	4,326.46	475.20	1,122.79	-453.97	9.62	8.31	-7.25
4,680.00	46.04	340.480	4,349.23	496.52	1,115.68	-433.83	10.00	8.72	-6.97
4,711.00	49.37	338.090	4,370.09	517.96	1,107.56	-412.89	12.16	10.74	-7.71
4,743.00	52.40	335.730	4,390.28	540.79	1,097.82	-389.83	11.06	9.47	-7.38
4,774.00	55.82	333.780	4,408.45	563.50	1,087.10	-366.17	12.15	11.03	-6.29
4,806.00	58.31	332.440	4,425.84	587.45	1,074.95	-340.61	8.54	7.78	-4.19
4,837.00	58.66	331.790	4,442.05	610.81	1,062.59	-315.33	2.11	1.13	-2.10
4,869.00	59.70	331.100	4,458.44	634.94	1,049.45	-288.94	3.74	3.25	-2.16
4,900.00	62.97	330.130	4,473.31	658.64	1,036.10	-262.72	10.90	10.55	-3.13
4,931.00	66.35	328.280	4,486.58	682.70	1,021.76	-235.54	12.16	10.90	-5.97
4,963.00	69.71	327.210	4,498.55	707.79	1,005.92	-206.58	10.95	10.50	-3.34
4,967.23	70.16	327.003	4,500.00	711.12	1,003.76	-202.69	11.55	10.60	-4.89
FTP G-top 4967.23 MD 4500.00 TVD									
4,994.00	73.00	325.720	4,508.46	732.27	989.69	-177.78	11.55	10.62	-4.79
5,026.00	76.46	324.020	4,516.89	757.51	971.93	-147.35	11.97	10.81	-5.31
5,057.00	79.60	322.640	4,523.32	781.82	953.82	-117.33	11.03	10.13	-4.45
5,088.00	83.18	320.930	4,527.96	805.90	934.86	-86.89	12.77	11.55	-5.52
5,151.00	88.57	318.310	4,532.49	853.74	894.17	-24.27	9.51	8.56	-4.16
5,246.00	90.07	318.120	4,533.61	924.57	830.87	70.59	1.59	1.58	-0.20
5,340.00	90.79	317.760	4,532.91	994.36	767.90	164.48	0.86	0.77	-0.38
5,434.00	87.74	315.980	4,534.11	1,062.94	703.65	258.42	3.76	-3.24	-1.89
5,529.00	88.06	315.260	4,537.60	1,130.80	637.25	353.35	0.83	0.34	-0.76
5,624.00	88.66	315.020	4,540.31	1,198.11	570.27	448.31	0.68	0.63	-0.25
5,718.00	89.00	314.450	4,542.23	1,264.25	503.51	542.29	0.71	0.36	-0.61
5,812.00	88.38	313.920	4,544.38	1,329.75	436.12	636.25	0.87	-0.66	-0.56
5,907.00	89.11	315.500	4,546.46	1,396.57	368.63	731.22	1.83	0.77	1.66
6,002.00	88.86	315.060	4,548.15	1,464.06	301.79	826.20	0.53	-0.26	-0.46
6,097.00	91.53	317.470	4,547.82	1,532.69	236.13	921.17	3.79	2.81	2.54
6,192.00	91.75	317.270	4,545.10	1,602.56	171.81	1,016.06	0.31	0.23	-0.21
6,285.00	90.90	317.370	4,542.95	1,670.91	108.79	1,108.97	0.92	-0.91	0.11
6,380.00	90.97	317.740	4,541.40	1,741.00	44.68	1,203.88	0.40	0.07	0.39
6,474.00	89.95	314.720	4,540.65	1,808.87	-20.33	1,297.85	3.39	-1.09	-3.21



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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)
6,569.00	90.13	314.650	4,540.58	1,875.67	-87.88	1,392.84	0.20	0.19	-0.07
6,663.00	89.72	313.690	4,540.71	1,941.17	-155.30	1,486.83	1.11	-0.44	-1.02
6,758.00	87.77	311.380	4,542.79	2,005.37	-225.28	1,581.69	3.18	-2.05	-2.43
6,852.00	88.73	314.300	4,545.66	2,069.25	-294.16	1,675.56	3.27	1.02	3.11
6,947.00	89.52	314.800	4,547.11	2,135.89	-361.85	1,770.54	0.98	0.83	0.53
7,041.00	90.43	315.140	4,547.15	2,202.32	-428.36	1,864.54	1.03	0.97	0.36
7,135.00	87.86	312.720	4,548.55	2,267.52	-496.04	1,958.49	3.76	-2.73	-2.57
7,230.00	88.80	315.910	4,551.32	2,333.85	-563.97	2,053.42	3.50	0.99	3.36
7,324.00	89.17	316.020	4,552.99	2,401.42	-629.30	2,147.40	0.41	0.39	0.12
7,418.00	92.35	316.310	4,551.74	2,469.21	-694.39	2,241.37	3.40	3.38	0.31
7,512.00	92.37	315.130	4,547.87	2,536.45	-759.96	2,335.28	1.25	0.02	-1.26
7,607.00	92.15	313.660	4,544.12	2,602.85	-827.78	2,430.19	1.56	-0.23	-1.55
7,701.00	92.29	313.730	4,540.48	2,667.74	-895.70	2,524.09	0.17	0.15	0.07
7,795.00	89.05	313.700	4,539.38	2,732.69	-963.63	2,618.04	3.45	-3.45	-0.03
7,889.00	89.89	314.030	4,540.25	2,797.83	-1,031.39	2,712.01	0.96	0.89	0.35
7,984.00	88.02	315.210	4,541.98	2,864.54	-1,099.00	2,806.98	2.33	-1.97	1.24
8,078.00	88.66	315.260	4,544.71	2,931.25	-1,165.16	2,900.94	0.68	0.68	0.05
8,172.00	88.33	314.410	4,547.18	2,997.50	-1,231.80	2,994.91	0.97	-0.35	-0.90
8,267.00	88.98	314.410	4,549.41	3,063.96	-1,299.64	3,089.87	0.68	0.68	0.00
8,361.00	89.33	314.080	4,550.79	3,129.54	-1,366.98	3,183.85	0.51	0.37	-0.35
8,456.00	90.31	314.560	4,551.09	3,195.92	-1,434.94	3,278.84	1.15	1.03	0.51
8,551.00	90.28	313.810	4,550.60	3,262.13	-1,503.06	3,373.82	0.79	-0.03	-0.79
8,645.00	90.71	313.690	4,549.79	3,327.13	-1,570.96	3,467.79	0.47	0.46	-0.13
8,740.00	88.37	311.790	4,550.55	3,391.59	-1,640.72	3,562.68	3.17	-2.46	-2.00
8,834.00	90.46	314.780	4,551.51	3,456.03	-1,709.14	3,656.61	3.88	2.22	3.18
8,928.00	88.74	312.960	4,552.17	3,521.16	-1,776.90	3,750.58	2.66	-1.83	-1.94
9,022.00	90.15	314.960	4,553.08	3,586.41	-1,844.55	3,844.54	2.60	1.50	2.13
9,117.00	88.73	313.630	4,554.01	3,652.74	-1,912.54	3,939.52	2.05	-1.49	-1.40
9,211.00	89.97	316.470	4,555.07	3,719.26	-1,978.94	4,033.50	3.30	1.32	3.02
9,306.00	90.25	315.740	4,554.89	3,787.71	-2,044.80	4,128.49	0.82	0.29	-0.77
9,400.00	88.91	313.960	4,555.58	3,854.00	-2,111.44	4,222.48	2.37	-1.43	-1.89
9,495.00	89.98	315.870	4,556.50	3,921.07	-2,178.71	4,317.47	2.30	1.13	2.01
9,589.00	90.00	315.600	4,556.52	3,988.39	-2,244.32	4,411.47	0.29	0.02	-0.29
9,683.00	90.19	315.050	4,556.36	4,055.23	-2,310.41	4,505.46	0.62	0.20	-0.59
9,777.00	89.66	313.740	4,556.48	4,120.99	-2,377.57	4,599.45	1.50	-0.56	-1.39
9,872.00	89.35	316.510	4,557.31	4,188.30	-2,444.59	4,694.44	2.93	-0.33	2.92
9,966.00	90.76	317.490	4,557.22	4,257.05	-2,508.70	4,788.39	1.83	1.50	1.04
10,060.00	87.88	316.170	4,558.33	4,325.59	-2,573.00	4,882.33	3.37	-3.06	-1.40
10,154.00	88.54	315.930	4,561.27	4,393.23	-2,638.20	4,976.28	0.75	0.70	-0.26
10,249.00	89.27	316.060	4,563.08	4,461.55	-2,704.19	5,071.25	0.78	0.77	0.14
10,344.00	88.37	315.380	4,565.04	4,529.55	-2,770.50	5,166.22	1.19	-0.95	-0.72
10,438.00	88.43	314.950	4,567.66	4,596.18	-2,836.75	5,260.19	0.46	0.06	-0.46
10,533.00	89.80	314.970	4,569.13	4,663.30	-2,903.96	5,355.17	1.44	1.44	0.02



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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)	
10,627.00	89.72	314.610	4,569.52	4,729.52	-2,970.67	5,449.17	0.39	-0.09	-0.38	
10,721.00	90.09	313.660	4,569.68	4,794.98	-3,038.13	5,543.15	1.08	0.39	-1.01	
10,815.00	89.74	314.310	4,569.82	4,860.26	-3,105.77	5,637.13	0.79	-0.37	0.69	
10,910.00	90.00	313.280	4,570.04	4,926.01	-3,174.34	5,732.10	1.12	0.27	-1.08	
11,004.00	87.27	314.380	4,572.27	4,991.08	-3,242.13	5,826.04	3.13	-2.90	1.17	
11,098.00	89.57	314.370	4,574.87	5,056.79	-3,309.28	5,919.98	2.45	2.45	-0.01	
11,193.00	91.55	315.930	4,573.94	5,124.13	-3,376.28	6,014.97	2.65	2.08	1.64	
11,287.00	90.70	315.410	4,572.09	5,191.36	-3,441.95	6,108.95	1.06	-0.90	-0.55	
11,382.00	89.43	313.740	4,571.98	5,258.03	-3,509.62	6,203.94	2.21	-1.34	-1.76	
11,477.00	87.63	312.220	4,574.42	5,322.77	-3,579.09	6,298.83	2.48	-1.89	-1.60	
11,572.00	89.60	314.740	4,576.72	5,388.11	-3,647.99	6,393.75	3.37	2.07	2.65	
11,666.00	88.82	313.990	4,578.01	5,453.83	-3,715.19	6,487.73	1.15	-0.83	-0.80	
11,760.00	90.84	313.820	4,578.29	5,519.01	-3,782.91	6,581.70	2.16	2.15	-0.18	
11,855.00	89.66	315.710	4,577.88	5,585.91	-3,850.35	6,676.69	2.35	-1.24	1.99	
11,949.00	88.74	314.410	4,579.19	5,652.44	-3,916.74	6,770.67	1.69	-0.98	-1.38	
12,043.00	89.57	314.360	4,580.58	5,718.18	-3,983.91	6,864.65	0.88	0.88	-0.05	
12,137.00	89.53	313.970	4,581.32	5,783.67	-4,051.34	6,958.64	0.42	-0.04	-0.41	
12,231.00	88.74	313.060	4,582.73	5,848.38	-4,119.50	7,052.58	1.28	-0.84	-0.97	
12,326.00	89.09	312.740	4,584.53	5,913.04	-4,189.08	7,147.49	0.50	0.37	-0.34	
12,420.00	89.64	312.090	4,585.58	5,976.44	-4,258.47	7,241.37	0.91	0.59	-0.69	
12,515.00	88.81	310.860	4,586.86	6,039.35	-4,329.64	7,336.16	1.56	-0.87	-1.29	
12,609.00	89.88	314.300	4,587.93	6,102.94	-4,398.84	7,430.04	3.83	1.14	3.66	
12,704.00	88.85	313.290	4,588.99	6,168.68	-4,467.41	7,525.00	1.52	-1.08	-1.06	
Survey @ 12704.00 MD 4588.99 TVD										
12,723.00	88.85	313.290	4,589.37	6,181.70	-4,481.23	7,543.99	0.00	0.00	0.00	
LTP @ 12723 MD 4589.37 TVD										
12,737.00	88.85	313.290	4,589.65	6,191.30	-4,491.42	7,557.98	0.00	0.00	0.00	
330 perp @ 12737.00 MD 4589.65 TVD										
12,844.00	88.85	313.290	4,591.80	6,264.66	-4,569.29	7,664.90	0.00	0.00	0.00	
Survey Proj. to 12844 MD 4591.80 TVD 163 FNL 2134 FEL										

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,557.00			9-5/8	12-1/4



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
401.00	400.98	-2.63	-2.14	MWD surveys
2,557.00	2,466.60	84.17	421.61	9 5/8" Casing @ 2557 MD 2466.60 TVD
4,967.23	4,500.00	711.12	1,003.76	FTP G-top 4967.23 MD 4500.00 TVD
12,704.00	4,588.99	6,168.68	-4,467.41	Survey @ 12704.00 MD 4588.99 TVD
12,723.00	4,589.37	6,181.70	-4,481.23	LTP @ 12723 MD 4589.37 TVD
12,737.00	4,589.65	6,191.30	-4,491.42	330 perp @ 12737.00 MD 4589.65 TVD
12,844.00	4,591.80	6,264.66	-4,569.29	Survey Proj. to 12844 MD 4591.80 TVD 163 FNL 2134 FEL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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 730 Pad (730, 763, 830, 861 & 863)				
Site Position:		Northing:	1,888,164.052 usft	Latitude:	36.189179000
From:	Lat/Long	Easting:	2,741,098.391 usft	Longitude:	-107.772310000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.04 °

Well	W Lybrook Unit No. 730H					
Well Position	+N/-S	0.00 ft	Northing:	1,892,834.713 usft	Latitude:	36.202012000
	+E/-W	0.00 ft	Easting:	2,739,771.058 usft	Longitude:	-107.776799000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,641.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/8/2022	8.74	62.71	49,216.10701673

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	315.200	

Survey Program	Date	4/14/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
401.00	2,509.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,583.00	12,704.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
12,844.00	12,844.00	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	0.000	0.00	0.00	0.00	1,892,834.713	2,739,771.058	36.202012000	-107.776799000
401.00	0.97	219.150	400.98	-2.63	-2.14	1,892,832.081	2,739,768.915	36.202004772	-107.776806269
MWD surveys									
493.00	0.70	216.780	492.97	-3.69	-2.97	1,892,831.027	2,739,768.087	36.202001878	-107.776809078
584.00	0.70	230.490	583.96	-4.49	-3.73	1,892,830.228	2,739,767.325	36.201999685	-107.776811661
675.00	0.53	211.590	674.96	-5.20	-4.38	1,892,829.516	2,739,766.676	36.201997729	-107.776813864
766.00	0.44	214.230	765.96	-5.84	-4.80	1,892,828.869	2,739,766.259	36.201995951	-107.776815278
857.00	0.40	206.050	856.95	-6.42	-5.14	1,892,828.294	2,739,765.923	36.201994374	-107.776816419
948.00	0.44	201.480	947.95	-7.03	-5.40	1,892,827.684	2,739,765.655	36.201992698	-107.776817326
1,039.00	0.31	230.400	1,038.95	-7.51	-5.72	1,892,827.202	2,739,765.338	36.201991374	-107.776818404



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Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,132.00	1.23	49.870	1,131.94	-7.03	-5.15	1,892,827.685	2,739,765.907	36.201992700	-107.776816473
1,226.00	2.50	70.180	1,225.89	-5.68	-2.45	1,892,829.030	2,739,768.607	36.201996392	-107.776807318
1,320.00	4.53	70.620	1,319.71	-3.76	2.98	1,892,830.957	2,739,774.038	36.202001677	-107.776788906
1,414.00	6.72	75.010	1,413.25	-1.10	11.80	1,892,833.612	2,739,782.854	36.202008955	-107.776759021
1,508.00	8.75	76.940	1,506.39	1.94	24.07	1,892,836.651	2,739,795.132	36.202017283	-107.776717396
1,603.00	11.87	81.430	1,599.85	5.03	40.78	1,892,839.740	2,739,811.837	36.202025743	-107.776660770
1,697.00	15.95	84.410	1,691.07	7.73	63.20	1,892,842.440	2,739,834.260	36.202033124	-107.776584762
1,791.00	19.51	84.850	1,780.60	10.39	91.70	1,892,845.108	2,739,862.757	36.202040408	-107.776488168
1,886.00	21.75	83.710	1,869.50	13.75	125.00	1,892,848.461	2,739,896.056	36.202049564	-107.776375294
1,981.00	23.55	78.170	1,957.18	19.57	161.08	1,892,854.281	2,739,932.134	36.202065495	-107.776252997
2,075.00	26.32	76.060	2,042.41	28.44	199.69	1,892,863.153	2,739,970.748	36.202089805	-107.776122100
2,170.00	28.70	75.450	2,126.66	39.25	242.22	1,892,873.959	2,740,013.274	36.202119421	-107.775977938
2,264.00	29.14	76.150	2,208.94	50.39	286.28	1,892,885.108	2,740,057.342	36.202149976	-107.775828549
2,358.00	28.78	76.150	2,291.19	61.29	330.48	1,892,896.003	2,740,101.533	36.202179835	-107.775678742
2,453.00	28.13	75.620	2,374.71	72.33	374.37	1,892,907.039	2,740,145.430	36.202210081	-107.775529929
2,509.00	27.95	76.150	2,424.13	78.75	399.90	1,892,913.460	2,740,170.960	36.202227675	-107.775443384
2,557.00	27.61	75.795	2,466.60	84.17	421.61	1,892,918.882	2,740,192.666	36.202242536	-107.775369803
9 5/8" Casing @ 2557 MD 2466.60 TVD									
2,583.00	27.43	75.600	2,489.66	87.14	433.25	1,892,921.850	2,740,204.307	36.202250669	-107.775330338
2,677.00	25.95	74.530	2,573.64	98.01	474.05	1,892,932.721	2,740,245.102	36.202280466	-107.775192042
2,772.00	25.95	78.590	2,659.07	107.66	514.46	1,892,942.378	2,740,285.512	36.202306928	-107.775055053
2,867.00	26.65	78.320	2,744.24	116.09	555.69	1,892,950.803	2,740,326.752	36.202330004	-107.774915255
2,982.00	26.63	77.550	2,847.03	126.87	606.12	1,892,961.580	2,740,377.176	36.202359528	-107.774744322
3,076.00	24.96	76.590	2,931.66	136.01	645.99	1,892,970.723	2,740,417.042	36.202384576	-107.774609175
3,170.00	26.23	77.620	3,016.43	145.06	685.57	1,892,979.776	2,740,456.627	36.202409382	-107.774474987
3,265.00	24.61	76.300	3,102.23	154.25	725.30	1,892,988.963	2,740,496.353	36.202434551	-107.774340315
3,359.00	26.45	79.650	3,187.06	162.65	764.91	1,892,997.360	2,740,535.968	36.202457555	-107.774206022
3,453.00	24.99	78.630	3,271.74	170.32	804.97	1,893,005.036	2,740,576.031	36.202478574	-107.774070216
3,547.00	26.27	79.210	3,356.49	178.13	844.88	1,893,012.846	2,740,615.933	36.202499960	-107.773934952
3,642.00	25.40	78.360	3,442.00	186.18	885.48	1,893,020.892	2,740,656.541	36.202521997	-107.773797295
3,736.00	25.33	79.070	3,526.93	194.06	924.97	1,893,028.773	2,740,696.029	36.202543578	-107.773663432
3,830.00	24.90	78.890	3,612.05	201.69	964.13	1,893,036.398	2,740,735.191	36.202564461	-107.773530679
3,924.00	23.29	77.690	3,697.85	209.46	1,001.71	1,893,044.174	2,740,772.767	36.202585757	-107.773403298
4,019.00	23.26	76.620	3,785.12	217.81	1,038.31	1,893,052.519	2,740,809.365	36.202608619	-107.773279232
4,050.00	22.32	75.900	3,813.70	220.66	1,049.97	1,893,055.369	2,740,821.029	36.202616430	-107.773239690
4,082.00	23.33	75.960	3,843.20	223.67	1,062.01	1,893,058.387	2,740,833.070	36.202624699	-107.773198871
4,113.00	23.63	72.140	3,871.63	227.07	1,073.88	1,893,061.782	2,740,844.939	36.202634005	-107.773158633
4,144.00	23.96	62.220	3,900.01	231.91	1,085.37	1,893,066.623	2,740,856.426	36.202647284	-107.773119688
4,176.00	24.67	52.160	3,929.18	239.04	1,096.40	1,893,073.751	2,740,867.454	36.202666848	-107.773082295
4,208.00	25.82	43.260	3,958.14	248.21	1,106.45	1,893,082.927	2,740,877.508	36.202692037	-107.773048198
4,239.00	27.71	35.400	3,985.82	259.01	1,115.26	1,893,093.723	2,740,886.313	36.202721679	-107.773018330
4,270.00	28.62	28.370	4,013.16	271.42	1,122.96	1,893,106.134	2,740,894.018	36.202755761	-107.772992187
4,302.00	28.88	22.740	4,041.22	285.29	1,129.59	1,893,120.007	2,740,900.648	36.202793861	-107.772969685
4,333.00	29.19	17.960	4,068.33	299.39	1,134.82	1,893,134.104	2,740,905.874	36.202832578	-107.772951944
4,365.00	29.76	13.590	4,096.19	314.54	1,139.09	1,893,149.249	2,740,910.146	36.202874174	-107.772937429
4,396.00	30.85	8.550	4,122.96	329.88	1,142.08	1,893,164.590	2,740,913.137	36.202916313	-107.772927262
4,428.00	32.06	3.770	4,150.26	346.47	1,143.86	1,893,181.181	2,740,914.915	36.202961888	-107.772921198
4,460.00	32.54	358.910	4,177.31	363.55	1,144.25	1,893,198.263	2,740,915.310	36.203008813	-107.772919824
4,490.00	33.67	354.570	4,202.44	379.90	1,143.31	1,893,214.612	2,740,914.369	36.203053726	-107.772922978
4,522.00	35.43	350.790	4,228.80	397.89	1,140.99	1,893,232.602	2,740,912.045	36.203103150	-107.772930818
4,553.00	37.59	348.990	4,253.72	416.04	1,137.74	1,893,250.755	2,740,908.800	36.203153025	-107.772941777
4,585.00	39.00	346.770	4,278.83	435.43	1,133.58	1,893,270.140	2,740,904.632	36.203206282	-107.772955866
4,616.00	40.59	345.030	4,302.65	454.67	1,128.74	1,893,289.380	2,740,899.794	36.203259145	-107.772972224
4,648.00	43.25	342.710	4,326.46	475.20	1,122.79	1,893,309.909	2,740,893.845	36.203315551	-107.772992344
4,680.00	46.04	340.480	4,349.23	496.52	1,115.68	1,893,331.237	2,740,886.737	36.203374155	-107.773016394



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,711.00	49.37	338.090	4,370.09	517.96	1,107.56	1,893,352.675	2,740,878.616	36.203433059	-107.773043873
4,743.00	52.40	335.730	4,390.28	540.79	1,097.82	1,893,375.504	2,740,868.871	36.203495790	-107.773076855
4,774.00	55.82	333.780	4,408.45	563.50	1,087.10	1,893,398.211	2,740,858.154	36.203558186	-107.773113133
4,806.00	58.31	332.440	4,425.84	587.45	1,074.95	1,893,422.159	2,740,846.005	36.203623996	-107.773154264
4,837.00	58.66	331.790	4,442.05	610.81	1,062.59	1,893,445.518	2,740,833.645	36.203688185	-107.773196110
4,869.00	59.70	331.100	4,458.44	634.94	1,049.45	1,893,469.655	2,740,820.508	36.203754515	-107.773240586
4,900.00	62.97	330.130	4,473.31	658.64	1,036.10	1,893,493.351	2,740,807.160	36.203819632	-107.773285779
4,931.00	66.35	328.280	4,486.58	682.70	1,021.76	1,893,517.409	2,740,792.814	36.203885748	-107.773334356
4,963.00	69.71	327.210	4,498.55	707.79	1,005.92	1,893,542.500	2,740,776.976	36.203954702	-107.773387988
4,967.23	70.16	327.003	4,500.00	711.12	1,003.76	1,893,545.835	2,740,774.819	36.203963867	-107.773395292
FTP G-top 4967.23 MD 4500.00 TVD									
4,994.00	73.00	325.720	4,508.46	732.27	989.69	1,893,566.978	2,740,760.749	36.204021971	-107.773442940
5,026.00	76.46	324.020	4,516.89	757.51	971.93	1,893,592.218	2,740,742.985	36.204091339	-107.773503097
5,057.00	79.60	322.640	4,523.32	781.82	953.82	1,893,616.537	2,740,724.876	36.204158176	-107.773564430
5,088.00	83.18	320.930	4,527.96	805.90	934.86	1,893,640.613	2,740,705.917	36.204224347	-107.773628642
5,151.00	88.57	318.310	4,532.49	853.74	894.17	1,893,688.454	2,740,665.223	36.204355842	-107.773766478
5,246.00	90.07	318.120	4,533.61	924.57	830.87	1,893,759.284	2,740,601.927	36.204550524	-107.773980876
5,340.00	90.79	317.760	4,532.91	994.36	767.90	1,893,829.071	2,740,538.958	36.204742342	-107.774194170
5,434.00	87.74	315.980	4,534.11	1,062.94	703.65	1,893,897.656	2,740,474.710	36.204930860	-107.774411802
5,529.00	88.06	315.260	4,537.60	1,130.80	637.25	1,893,965.508	2,740,408.311	36.205117366	-107.774636729
5,624.00	88.66	315.020	4,540.31	1,198.11	570.27	1,894,032.819	2,740,341.328	36.205302387	-107.774863637
5,718.00	89.00	314.450	4,542.23	1,264.25	503.51	1,894,098.965	2,740,274.568	36.205484206	-107.775089794
5,812.00	88.38	313.920	4,544.38	1,329.75	436.12	1,894,164.463	2,740,207.180	36.205664247	-107.775318082
5,907.00	89.11	315.500	4,546.46	1,396.57	368.63	1,894,231.278	2,740,139.685	36.205847907	-107.775546731
6,002.00	88.86	315.060	4,548.15	1,464.06	301.79	1,894,298.770	2,740,072.849	36.206033422	-107.775773142
6,097.00	91.53	317.470	4,547.82	1,532.69	236.13	1,894,367.400	2,740,007.185	36.206222062	-107.775995584
6,192.00	91.75	317.270	4,545.10	1,602.56	171.81	1,894,437.267	2,739,942.871	36.206414097	-107.776213445
6,285.00	90.90	317.370	4,542.95	1,670.91	108.79	1,894,505.617	2,739,879.844	36.206601963	-107.776426950
6,380.00	90.97	317.740	4,541.40	1,741.00	44.68	1,894,575.710	2,739,815.739	36.206794619	-107.776644106
6,474.00	89.95	314.720	4,540.65	1,808.87	-20.33	1,894,643.578	2,739,750.724	36.206981165	-107.776864354
6,569.00	90.13	314.650	4,540.58	1,875.67	-87.88	1,894,710.383	2,739,683.180	36.207164791	-107.777093173
6,663.00	89.72	313.690	4,540.71	1,941.17	-155.30	1,894,775.880	2,739,615.758	36.207344826	-107.777321587
6,758.00	87.77	311.380	4,542.79	2,005.37	-225.28	1,894,840.081	2,739,545.781	36.207521304	-107.777558662
6,852.00	88.73	314.300	4,545.66	2,069.25	-294.16	1,894,903.960	2,739,476.896	36.207696893	-107.777792038
6,947.00	89.52	314.800	4,547.11	2,135.89	-361.85	1,894,970.597	2,739,409.204	36.207880057	-107.778021365
7,041.00	90.43	315.140	4,547.15	2,202.32	-428.36	1,895,037.029	2,739,342.702	36.208062657	-107.778246660
7,135.00	87.86	312.720	4,548.55	2,267.52	-496.04	1,895,102.227	2,739,275.023	36.208241868	-107.778475948
7,230.00	88.80	315.910	4,551.32	2,333.85	-563.97	1,895,168.557	2,739,207.089	36.208424188	-107.778706102
7,324.00	89.17	316.020	4,552.99	2,401.42	-629.30	1,895,236.124	2,739,141.760	36.208609903	-107.778927421
7,418.00	92.35	316.310	4,551.74	2,469.21	-694.39	1,895,303.915	2,739,076.672	36.208796231	-107.779147927
7,512.00	92.37	315.130	4,547.87	2,536.45	-759.96	1,895,371.155	2,739,011.101	36.208981045	-107.779370069
7,607.00	92.15	313.660	4,544.12	2,602.85	-827.78	1,895,437.563	2,738,943.275	36.209163579	-107.779599859
7,701.00	92.29	313.730	4,540.48	2,667.74	-895.70	1,895,502.451	2,738,875.362	36.209341936	-107.779829949
7,795.00	89.05	313.700	4,539.38	2,732.69	-963.63	1,895,567.399	2,738,807.434	36.209520456	-107.780060090
7,889.00	89.89	314.030	4,540.25	2,797.83	-1,031.39	1,895,632.533	2,738,739.666	36.209699489	-107.780289688
7,984.00	88.02	315.210	4,541.98	2,864.54	-1,099.00	1,895,699.246	2,738,672.062	36.209882857	-107.780518729
8,078.00	88.66	315.260	4,544.71	2,931.25	-1,165.16	1,895,765.958	2,738,605.895	36.210066219	-107.780742898
8,172.00	88.33	314.410	4,547.18	2,997.50	-1,231.80	1,895,832.210	2,738,539.260	36.210248320	-107.780968658
8,267.00	88.98	314.410	4,549.41	3,063.96	-1,299.64	1,895,898.671	2,738,471.416	36.210430996	-107.781198517
8,361.00	89.33	314.080	4,550.79	3,129.54	-1,366.98	1,895,964.250	2,738,404.086	36.210611247	-107.781426637
8,456.00	90.31	314.560	4,551.09	3,195.92	-1,434.94	1,896,030.622	2,738,336.119	36.210793676	-107.781656912
8,551.00	90.28	313.810	4,550.60	3,262.13	-1,503.06	1,896,096.833	2,738,267.997	36.210975665	-107.781887717
8,645.00	90.71	313.690	4,549.79	3,327.13	-1,570.96	1,896,161.833	2,738,200.098	36.211154323	-107.782117770
8,740.00	88.37	311.790	4,550.55	3,391.59	-1,640.72	1,896,226.297	2,738,130.336	36.211331514	-107.782354137
8,834.00	90.46	314.780	4,551.51	3,456.03	-1,709.14	1,896,290.732	2,738,061.924	36.211508622	-107.782585930



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,928.00	88.74	312.960	4,552.17	3,521.16	-1,776.90	1,896,355.870	2,737,994.166	36.211687658	-107.782815509
9,022.00	90.15	314.960	4,553.08	3,586.41	-1,844.55	1,896,421.112	2,737,926.511	36.211866983	-107.783044737
9,117.00	88.73	313.630	4,554.01	3,652.74	-1,912.54	1,896,487.450	2,737,858.521	36.212049314	-107.783275099
9,211.00	89.97	316.470	4,555.07	3,719.26	-1,978.94	1,896,553.963	2,737,792.124	36.212232127	-107.783500064
9,306.00	90.25	315.740	4,554.89	3,787.71	-2,044.80	1,896,622.421	2,737,726.257	36.212420279	-107.783723226
9,400.00	88.91	313.960	4,555.58	3,854.00	-2,111.44	1,896,688.708	2,737,659.622	36.212602471	-107.783949001
9,495.00	89.98	315.870	4,556.50	3,921.07	-2,178.71	1,896,755.776	2,737,592.354	36.212786808	-107.784176917
9,589.00	90.00	315.600	4,556.52	3,988.39	-2,244.32	1,896,823.091	2,737,526.745	36.212971820	-107.784399215
9,683.00	90.19	315.050	4,556.36	4,055.23	-2,310.41	1,896,889.935	2,737,460.655	36.213155537	-107.784623141
9,777.00	89.66	313.740	4,556.48	4,120.99	-2,377.57	1,896,955.696	2,737,393.491	36.213336280	-107.784850713
9,872.00	89.35	316.510	4,557.31	4,188.30	-2,444.59	1,897,023.008	2,737,326.472	36.213521285	-107.785077792
9,966.00	90.76	317.490	4,557.22	4,257.05	-2,508.70	1,897,091.752	2,737,262.367	36.213710220	-107.785294991
10,060.00	87.88	316.170	4,558.33	4,325.59	-2,573.00	1,897,160.296	2,737,198.068	36.213898602	-107.785512847
10,154.00	88.54	315.930	4,561.27	4,393.23	-2,638.20	1,897,227.937	2,737,132.862	36.214084507	-107.785733783
10,249.00	89.27	316.060	4,563.08	4,461.55	-2,704.19	1,897,296.255	2,737,066.876	36.214272274	-107.785957362
10,344.00	88.37	315.380	4,565.04	4,529.55	-2,770.50	1,897,364.254	2,737,000.565	36.214459160	-107.786182042
10,438.00	88.43	314.950	4,567.66	4,596.18	-2,836.75	1,897,430.887	2,736,934.315	36.214642296	-107.786406521
10,533.00	89.80	314.970	4,569.13	4,663.30	-2,903.96	1,897,498.005	2,736,867.103	36.214826766	-107.786634262
10,627.00	89.72	314.610	4,569.52	4,729.52	-2,970.67	1,897,564.228	2,736,800.393	36.215008775	-107.786860304
10,721.00	90.09	313.660	4,569.68	4,794.98	-3,038.13	1,897,629.684	2,736,732.930	36.215188677	-107.787088900
10,815.00	89.74	314.310	4,569.82	4,860.26	-3,105.77	1,897,694.964	2,736,665.295	36.215368095	-107.787318078
10,910.00	90.00	313.280	4,570.04	4,926.01	-3,174.34	1,897,760.710	2,736,596.724	36.215548795	-107.787550434
11,004.00	87.27	314.380	4,572.27	4,991.08	-3,242.13	1,897,825.781	2,736,528.939	36.215727639	-107.787780125
11,098.00	89.57	314.370	4,574.87	5,056.79	-3,309.28	1,897,891.490	2,736,461.780	36.215908236	-107.788007694
11,193.00	91.55	315.930	4,573.94	5,124.13	-3,376.28	1,897,958.832	2,736,394.789	36.216093316	-107.788234690
11,287.00	90.70	315.410	4,572.09	5,191.36	-3,441.95	1,898,026.059	2,736,329.117	36.216278078	-107.788457220
11,382.00	89.43	313.740	4,571.98	5,258.03	-3,509.62	1,898,092.730	2,736,261.449	36.216461315	-107.788686515
11,477.00	87.63	312.220	4,574.42	5,322.77	-3,579.09	1,898,157.470	2,736,191.976	36.216639250	-107.788921934
11,572.00	89.60	314.740	4,576.72	5,388.11	-3,647.99	1,898,222.813	2,736,123.073	36.216818838	-107.789155424
11,666.00	88.82	313.990	4,578.01	5,453.83	-3,715.19	1,898,288.532	2,736,055.880	36.216999461	-107.789383114
11,760.00	90.84	313.820	4,578.29	5,519.01	-3,782.91	1,898,353.714	2,735,988.157	36.217178606	-107.789612601
11,855.00	89.66	315.710	4,577.88	5,585.91	-3,850.35	1,898,420.608	2,735,920.712	36.217362454	-107.789841145
11,949.00	88.74	314.410	4,579.19	5,652.44	-3,916.74	1,898,487.137	2,735,854.323	36.217545297	-107.790066114
12,043.00	89.57	314.360	4,580.58	5,718.18	-3,983.91	1,898,552.880	2,735,787.153	36.217725981	-107.790293730
12,137.00	89.53	313.970	4,581.32	5,783.67	-4,051.34	1,898,618.370	2,735,719.726	36.217905970	-107.790522220
12,231.00	88.74	313.060	4,582.73	5,848.38	-4,119.50	1,898,683.085	2,735,651.567	36.218083830	-107.790753194
12,326.00	89.09	312.740	4,584.53	5,913.04	-4,189.08	1,898,747.741	2,735,581.988	36.218261531	-107.790988981
12,420.00	89.64	312.090	4,585.58	5,976.44	-4,258.47	1,898,811.139	2,735,512.595	36.218435774	-107.791224143
12,515.00	88.81	310.860	4,586.86	6,039.35	-4,329.64	1,898,874.050	2,735,441.425	36.218608679	-107.791465328
12,609.00	89.88	314.300	4,587.93	6,102.94	-4,398.84	1,898,937.637	2,735,372.226	36.218783442	-107.791699834
12,704.00	88.85	313.290	4,588.99	6,168.68	-4,467.41	1,899,003.379	2,735,303.660	36.218964122	-107.791932193
Survey @ 12704.00 MD 4588.99 TVD									
12,723.00	88.85	313.290	4,589.37	6,181.70	-4,481.23	1,899,016.405	2,735,289.832	36.218999920	-107.791979051
LTP @ 12723 MD 4589.37 TVD									
12,737.00	88.85	313.290	4,589.65	6,191.30	-4,491.42	1,899,026.002	2,735,279.644	36.219026298	-107.792013578
330 perp @ 12737.00 MD 4589.65 TVD									
12,844.00	88.85	313.290	4,591.80	6,264.66	-4,569.29	1,899,099.356	2,735,201.775	36.219227899	-107.792277463
Survey Proj. to 12844 MD 4591.80 TVD 163 FNL 2134 FEL									



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit No. 730H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Site:	W Lybrook 730 Pad (730, 763, 830, 861 & 863)	MD Reference:	RKB=6641+28 @ 6669.00ft (Ensign 773)
Well:	W Lybrook Unit No. 730H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,557.00			9-5/8	12-1/4

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
401.00	400.98	-2.63	-2.14	MWD surveys
2,557.00	2,466.60	84.17	421.61	9 5/8" Casing @ 2557 MD 2466.60 TVD
4,967.23	4,500.00	711.12	1,003.76	FTP G-top 4967.23 MD 4500.00 TVD
12,704.00	4,588.99	6,168.68	-4,467.41	Survey @ 12704.00 MD 4588.99 TVD
12,723.00	4,589.37	6,181.70	-4,481.23	LTP @ 12723 MD 4589.37 TVD
12,737.00	4,589.65	6,191.30	-4,491.42	330 perp @ 12737.00 MD 4589.65 TVD
12,844.00	4,591.80	6,264.66	-4,569.29	Survey Proj. to 12844 MD 4591.80 TVD 163 FNL 2134 FEL



ENDURING RESOURCES IV, LLC
6300 S SYRACUSE WAY, SUITE 525
CENTENNIAL, COLORADO 80111

DRILLING PLAN: *Drill, complete, and equip single lateral in the Mancos-I formation*

WELL INFORMATION:

Name: W LYBROOK UNIT 730H
API Number: 30-045-35843
AFE Number: DV03066
ER Well Number: NM08074.01
State: New Mexico
County: San Juan
Surface Elevation: 6,641 ft ASL (GL) 6,669 ft ASL (KB)
Surface Location: 27-23N-09W Sec-Twn-Rng 1,141 ft FNL 2,446 ft FWL
 36.202012 ° N latitude 107.776799 ° W longitude (NAD 83)
BH Location: 21-23N-09W Sec-Twn-Rng 232 ft FNL 1,992 ft FEL
 36.219049 ° N latitude 107.791796 ° W longitude (NAD 83)

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 onto access road for W Lybrook Unit 720H pad for 0.6 miles to fork, Left (West) onto access road for W Lybrook Unit 726H pad for 0.7 miles to fork, Left (West) for 1.4 miles to fork. Left (Southeast) for 0.6 miles to W Lybrook Unit 730H Pad (wells: 730H, 763H, 830H, 861H, 863H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	6,475	194	194	W	normal
	Kirtland	6,370	299	299	W	normal
	Fruitland	6,160	509	509	G, W	sub
	Pictured Cliffs	5,763	906	906	G, W	sub
	Lewis	5,650	1,019	1,019	G, W	normal
	Chacra	5,405	1,264	1,264	G, W	normal
	Cliff House	4,380	2,289	2,348	G, W	sub
	Menefee	4,340	2,329	2,393	G, W	normal
	Point Lookout	3,355	3,314	3,493	G, W	normal
	Mancos	3,200	3,469	3,667	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,875	3,794	4,030	O,G	sub (~0.38)
	MNCS_B	2,772	3,897	4,145	O,G	sub (~0.38)
	MNCS_C	2,682	3,987	4,243	O,G	sub (~0.38)
	MNCS_Cms	2,640	4,029	4,289	O,G	sub (~0.38)
	MNCS_D	2,502	4,167	4,443	O,G	sub (~0.38)
	MNCS_E	2,365	4,304	4,614	O,G	sub (~0.38)
	MNCS_F	2,307	4,362	4,698	O,G	sub (~0.38)
	MNCS_G	2,238	4,431	4,821	O,G	sub (~0.38)
	MNCS_H	2,190	4,479	4,920	O,G	sub (~0.38)
	MNCS_I	2,150	4,519	5,035	O,G	sub (~0.38)
	FTP (LP) TARGET	2,127	4,542	5,201	O,G	sub (~0.38)
	LTP (TD) TARGET	2,060	4,609	12,720	O,G	sub (~0.38)

Surface: Nacimiento

Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup

Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations

Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft

Maximum anticipated BH pressure, assuming maximum pressure gradient: 1,990 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 980 psi

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

H₂S Zones: Encountering hydrogen-sulfide bearing zones is **NOT** anticipated.

Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; remote geo-steering from drill out of 9-5/8" casing to TD; gas detection from drillout of 13-3/8" casing to TD.

MWD / LWD: Gamma Ray from drillout of 13-3/8" casing to TD

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

Cased Hole Logs: CBL on 5-1/2" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Ensign

Rig No.: 773

Draw Works: Pacific Rim 1500AC

Mast: ADR 1500S Cantilever Triple (142 ft, 800,000 lbs, 12 lines)

Top Drive: Tesco 500-ESI-1350 (500 ton, 1,350 hp)

Prime Movers: 3 - CAT 3512 (1,475 hp)

Pumps: 3 - Gardner-Denver PZ11 (7,500 psi)

BOPE 1: Cameron single gate ram (pipe) & double gate ram (pipe & blind) (13-5/8", 10,000 psi)

BOPE 2: Cameron annular (13-5/8", 5,000 psi)

Choke 3", 10,000 psi

KB-GL (ft): 28

NOTE: A different rig may be used to drill the well depending on rig availability

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 3) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 4) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 5) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 6) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement: Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and the in the geologist's work-station (if geologist or mud-logger is on-site).

Closed-Loop System: A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimize the amount of fluids and solids that require disposal.

Fluid Disposal: Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Solids Disposal: Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Fluid Program: See "Detailed Drilling Plan" section for specifics and fluid program from Newpark. Sufficient weighting agent will be on location to weight up mud system to balance the maximum expected pressure gradient.

DETAILED DRILLING PLAN:

SURFACE: *Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.*

0 ft (MD)	to	350 ft (MD)	Hole Section Length:	350 ft
0 ft (TVD)	to	350 ft (TVD)	Casing Required:	350 ft

Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud mud

Hole Size: 17-1/2"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Procedure: Drill to TD. Use 12-1/4" bit and open to 17-1/2" if unable to drill with 17-1/2" bit. Run inclination survey in 100' stations from TD to surface. Condition hole and fluid for casing running as required. TOOH. Run casing. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface. Install cellar and wellhead.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	541	116,634	116,634
Min. S.F.					7.39	5.05	7.31	7.79

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

Intermediate hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minimum: N/A Optimum: N/A Maximum: N/A

Make-up as per API Buttress Connection running procedure.

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
	Type III	14.6	1.39	6.686	0.6946	100%	0	350

Calculated cement volumes assume gauge hole and the excess noted in table

Drake Energy Services surface cementing blend

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

INTERMEDIATE: *Drill as per directional plan to casing setting depth, run casing, cement casing to surface.*

350 ft (MD)	to	2,504 ft (MD)	Hole Section Length:	2,154 ft
350 ft (TVD)	to	2,479 ft (TVD)*	Casing Required:	2,504 ft

***TARGET CSG SHOE DEPTH IS 150' TVD BELOW MENEFFEE TOP**

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCl)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

Bit / Motor (Detail): **MOTOR:** NOV 087840 - 7/8, 4.0, stage, 0.16 rev/gal, 1.83 DEG, 900 GPM, 950 DIFF PSIG

BIT: 5- or 6-BLADE PDC w/16 mm or 19 mm cutters, target TFA 0.65 - 1.0 max); 6 - 14s = 0.902 sq-in TFA

MWD / Survey: MWD Survey with inclination and azimuth survey (every 100' at a minimum), GR optional

Logging: None

Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to 1,500 psi for 30 minutes.

Procedure: Drill to TD following directional plan (**20' rat-hole (MAX) past casing setting depth**). Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10', when possible. Take surveys every stand, at a minimum. Target flow-rates of 750 GPM (higher if able to control return rates). Minimum desired flow-rate is 650 GPM. At TD, condition hole and fluid for casing running. TOOH. Run casing using a CRT and washing / circulating as required. Land casing. ND BOPE. Walk rig to next well. Perform off-line cement job, if possible. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,083	1,122	178,610	178,610
Min. S.F.					1.87	3.14	3.16	2.54

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minimum: 3,400 Optimum: 4,530 Maximum: 5,660

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface (FLOAT EQUIPMENT FROM WEATHERFORD)

Centralizers: 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1 centralizer per jt (floating) to KOP ; 1 centralizer per 2 jts (floating) to surface (CENTRALIZERS FROM ARSENAL - SLIP'N'SLIDE 9-5/8" x 12" SOLID BODY POLYMER)

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	471
Tail	Type III	14.6	1.38	6.64	20%	2,004	136

Annular Capacity 0.3627 cuft/ft 9-5/8" casing x 13-3/8" casing annulus

0.3132 cuft/ft 9-5/8" casing x 12-1/4" hole annulus

Calculated cement volumes assume gauge hole and the excess noted in table

Drake Energy Services Intermediate Cementing Program

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

PRODUCTION: Drill to TD following directional plan, run casing, cement casing to surface.

2,504 ft (MD)	to	12,720 ft (MD)	Hole Section Length:	10,216 ft
2,479 ft (TVD)	to	4,609 ft (TVD)	Casing Required:	12,720 ft

Estimated KOP:	4,104 ft (MD)	3,860 ft (TVD)
Estimated Landing Point (FTP):	5,201 ft (MD)	4,542 ft (TVD)
Estimated Lateral Length:	7,519 ft (MD)	

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	ES	OWR
	OBM	8.7 - 9.0	10 - 15	10 - 20	6 - 10	500+	80:20

Fluids / Solids Notes: OptiDrill OBM system will be built from previous well. Ensure that drying shakers are rigged up after the rig (2nd set) of shakers. Solids control will burn retorts on cuttings samples one per tour to check % ROC. Add diesel and products as required to maintain mud in program specs. Reference Newpark's mud program for additional details.

Hole Size: 8-1/2"

Bit / Motor: PDC w/mud motor

Bit / Motor (Detail): MOTOR: NOV 077857 - 7/8, 5.7, stage, 0.23 rev/gal, 1.83 - 2.12 DEG, 750 GPM, 1,580 DIFF PSIG (or similar); on demand friction breaking device(s) as required, bottom tool spaced ~3,000' behind the bit.

BIT: 5-BLADE PDC w/16 mm - 19 mm cutters, matrix body, target TFA = 1.0 - 1.5 sq-in

MWD / Survey: MWD with GR, inclination, and azimuth (survey every joint from KOP to Landing Point and survey every 100' minimum before KOP and after Landing Point)

Logging: GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to 1,500 psi for 30 minutes.

Procedure: Drill to KOP following directional plan. Target flow-rate is 650 - 700 GPM. Target differential is pressure is 700 - 1,000 psig. Target ROP 500 - 600 ft/hr. Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10' until KOP, when feasible. Take surveys every stand, at a minimum. Confirm landing target, planned BUR for curve, and KOP with Geology and Engineering. Drill curve following directional plan and updated landing target. Take survey every joint during curve. Land curve. Continue drilling in lateral section, steering as needed to keep well on plan and in the target window. Keep DLS < 2 deg/100' and keep slide length < 20', when feasible. Take surveys every stand, at a minimum. **Target rotating parameters / performance: flow-rate is 650 - 700 GPM, differential is pressure is 700 - 1,000 psig, ROP 500 - 600 ft/hr, torque 38K ft-lbs (MAX drill pipe MUT).** After reaching TD, perform clean-up cycle to condition hole for casing running. Spot lube as required and TOO (ROOH, if required; should NOT be required with OBM system). Run casing as described below. Use CRT for casing running only if necessary (should NOT be required with OBM). Verify make up torque when running casing. Space out casing getting the toe sleeve as close to LTP as possible. Land casing and test pack-off. Open floatation sub, fill casing, and circulate as required. Nipple down BOPE, walk rig to next well, and perform off-line cement job. Pump cement as detailed below. Note cement volume circulated to surface.

Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,277	8,931	336,596	336,596
Min. S.F.					3.28	1.19	1.62	1.32

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)
 Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient
 Tension: buoyed weight in 9.0 ppg fluid with 150,000 lbs over-pull

MU Torque (ft lbs): Minimum: 3,470 Optimum: 4,620 Maximum: 5,780

Casing Summary: Float shoe, 1 jt casing, float collar w/debris catcher, 1 jt casing, float collar (**WFT float equipment**), 20' marker joint, toe-initiation sleeve (**WFT RD 8,500 psi**), casing to KOP with 20' marker joints spaced evenly in lateral every ~2,000', floatation sub (**NCS Air-Lock 4,500 psi from WFT**), casing to surface. The toe-initiation sleeve shall be placed no closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well. **Note: the LTP is the maximum depth of the toe sleeve and is noted on the Well Plan. Drill past the LTP as required for necessary rat-hole and shoe-track length to place the toe sleeve as close to (but not past) the planned LTP as possible.**

Centralizers: Centralizer count and placement may be adjusted based on well conditions and as-drilled surveys (**ARSENAL**)

Lateral: 1 centralizer per joint

POE to 9-5/8" shoe: 1 centralizer per joint

9-5/8" shoe to surface: 1 centralizer per 2 joints

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	Type III	12.4	2.360	13.40	65%	0	472
Tail	G:POZ blend	13.3	1.560	7.70	10%	3,667	1,462
Annular Capacity	0.2691	cuft/ft	5-1/2" casing x 9-5/8" casing annulus				
	0.2291	cuft/ft	5-1/2" casing x 8-1/2" hole annulus				

Calculated cement volumes assume gauge hole and the excess noted in table

American Cementing Liner & Production Blend

Notify NMOCD & BLM if cement is not circulated to surface.

Note: This well will not be considered an unorthodox well location as defined by NMAC 19.15.16.15.C.5. As defined in NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. **Neither the bottom toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.**

FINISH WELL: ND BOP, cap well, RDMO.

Procedure: ND BOP. Walk rig to next well. Cement off-line. Cap well.

COMPLETION AND PRODUCTION PLAN:

Frac: 30 plug-and-perf stages with 210,000 bbls slickwater fluid and 13,000,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assistance)

Production: Produce through production tubing via gas-lift into permanent production and storage facilities

ESTIMATED START DATES:

Drilling: 3/11/2022

Completion: 4/30/2022

Production: 6/19/2022

Prepared by: Alec Bridge 1/21/2020

Updated by: Alec Bridge 11/12/2021 - updated BHL and directional plan for combination unit (LL increase 1,889')

Updated by: Alec Bridge 1/20/2022 - updated drilling prog & AFE information for 2022 drilling program

Alec Bridge 3/11/2022 - updated tops & directional plan to final geo-prog; updated 9-5/8" casing point; updated mud system; updated cement volumes

WELL NAME: W LYBROOK UNIT 730H**OBJECTIVE:** Drill, complete, and equip single lateral in the Mancos-I formation**API Number:** 30-045-35843**AFE Number:** DV03066**ER Well Number:** NM08074.01**State:** New Mexico**County:** San Juan**Surface Elev.:** 6,641 ft ASL (GL) 6,669 ft ASL (KB)**Surface Location:** 27-23N-09W Sec-Twn- Rng 1,141 ft FNL 2,446 ft FWL**BH Location:** 21-23N-09W Sec-Twn- Rng 232 ft FNL 1992 ft FEL**Driving Directions:** FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to fork, Right (Southwest) on CR #7890 for 0.5 miles to fork, Right (West) exiting CR #7890 onto access road for W Lybrook Unit 720H pad for 0.6 miles to fork, Left (West) onto access road for W Lybrook Unit 726H pad for 0.7 miles to fork, Left (West) for 1.4 miles to fork. Left (Southeast) for 0.6 miles to W Lybrook Unit 730H Pad (wells: 730H, 763H, 830H, 861H, 863H).

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,504 ft
KOP (MD)	4,104 ft
KOP (TVD)	3,860 ft
Target (TVD)	4,542 ft
Curve BUR	10 °/100 ft
POE (MD)	5,201 ft
TD (MD)	12,720 ft
Lat Len (ft)	7,519 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	2,504	9.625	36.0	J-55	LTC	0	2,504
Production	8.500	12,720	5.500	17.0	P-110	LTC	0	12,720

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	2.14	12.05	0.3627	70%	0	471
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,004	136
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	472
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	3,667	1,462

COMPLETION / PRODUCTION SUMMARY:**Frac:** 30 plug-and-perf stages with 210,000 bbls slickwater fluid and 13,000,000 lbs of proppant (estimated)**Flowback:** Flow back through production tubing as pressures allow (ESP may be used for load recovery assistance)**Production:** Produce through production tubing via gas-lift into permanent production and storage facilities

	Tops	TVD (ft KB)	MD (ft KB)
	Ojo Alamo	194	194
	Kirtland	299	299
	Fruitland	509	509
	Pictured Cliffs	906	906
	Lewis	1,019	1,019
	Chacra	1,264	1,264
	Cliff House	2,289	2,348
	Menefee	2,329	2,393
	Point Lookout	3,314	3,493
	Mancos	3,469	3,667
	Gallup (MNCS_A)	3,794	4,030
	MNCS_B	3,897	4,145
	MNCS_C	3,987	4,243
	MNCS_Cms	4,029	4,289
	MNCS_D	4,167	4,443
	MNCS_E	4,304	4,614
	MNCS_F	4,362	4,698
	MNCS_G	4,431	4,821
	MNCS_H	4,479	4,920
	MNCS_I	4,519	5,035
	FTP (LP) TARGET	4,542	5,201
	LTP (TD) TARGET	4,609	12,720

District I
1625 N. French Dr., Hobbs, NM 88240
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District IV
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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

ACKNOWLEDGMENTS

Action 105738

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 105738
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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COMMENTS

Action 105738

COMMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 105738
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

COMMENTS

Created By	Comment	Comment Date
llowe	Approved COA: C-104 RT expires on 10/07/22	7/7/2022

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CONDITIONS

Action 105738

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Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 105738
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 10/7/2022.	2/7/2023