

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30-045-38269	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number #761H

II. ¹⁰ Surface Location

Ul or lot no. M	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 495'	North/South Line South	Feet from the 561'	East/West line West	County San Juan
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¹¹ Bottom Hole Location

Ul or lot no. A	Section 21	Township 23N	Range 9W	Lot Idn	Feet from the 148'	North/South line North	Feet from the 294'	East/West line East	County San Juan
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 4/29/2022		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 12/29/2021	²² Ready Date 4/29/2022	²³ TD 12697' MD 4718' TVD	²⁴ PBDT 12667.5' MD 4728' TVD	²⁵ Perforations ~ 5118'-12662' MD ~ 4636'-4728' 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		2677' MD		642 sx- surface
8-1/2"		5-1/2",17#, P-110		12782' MD		1924 sx- surface
8-1/2"		2-7/8",6.5#, L-80		4927' MD		NA

V. Well Test Data

³¹ Date New Oil 5/2/2022	³² Gas Delivery Date 4/29/2022	³³ Test Date 5/2/2022	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure 249	³⁶ Csg. Pressure 1098
³⁷ Choke Size 64/64"	³⁸ Oil 267	³⁹ Water 740	⁴⁰ Gas 942		⁴¹ Test Method F

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Kayla White</i>	OIL CONSERVATION DIVISION Approved by: <i>PATRICIA MARTINEZ</i> Title: <i>PETROLEUM SPECIALIST</i> Approval Date: <i>2/10/2023</i>
Printed name: Kayla White	
Title: Environmental Engineer	
E-mail Address: kwhite@cdhconsult.com	
Date: 12/20/2022	



ENDURING RESOURCES IV LLC

March 22, 2022

Re: W LYBROOK UNIT 761H- 30-045-38269

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,

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

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

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

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.

Heather Huntington 7/20/22
Signature Date
Heather Huntington
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: MARCH 25, 2022
Survey Date: SEPTEMBER 10, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

¹ API Number 30-045-28269		² Pool Code 98157		³ Pool Name LYBROOK MANCOS W	
⁴ Property Code 332891		⁵ Property Name GREATER LYBROOK UNIT			⁶ Well Number 761H
⁷ GRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6747'

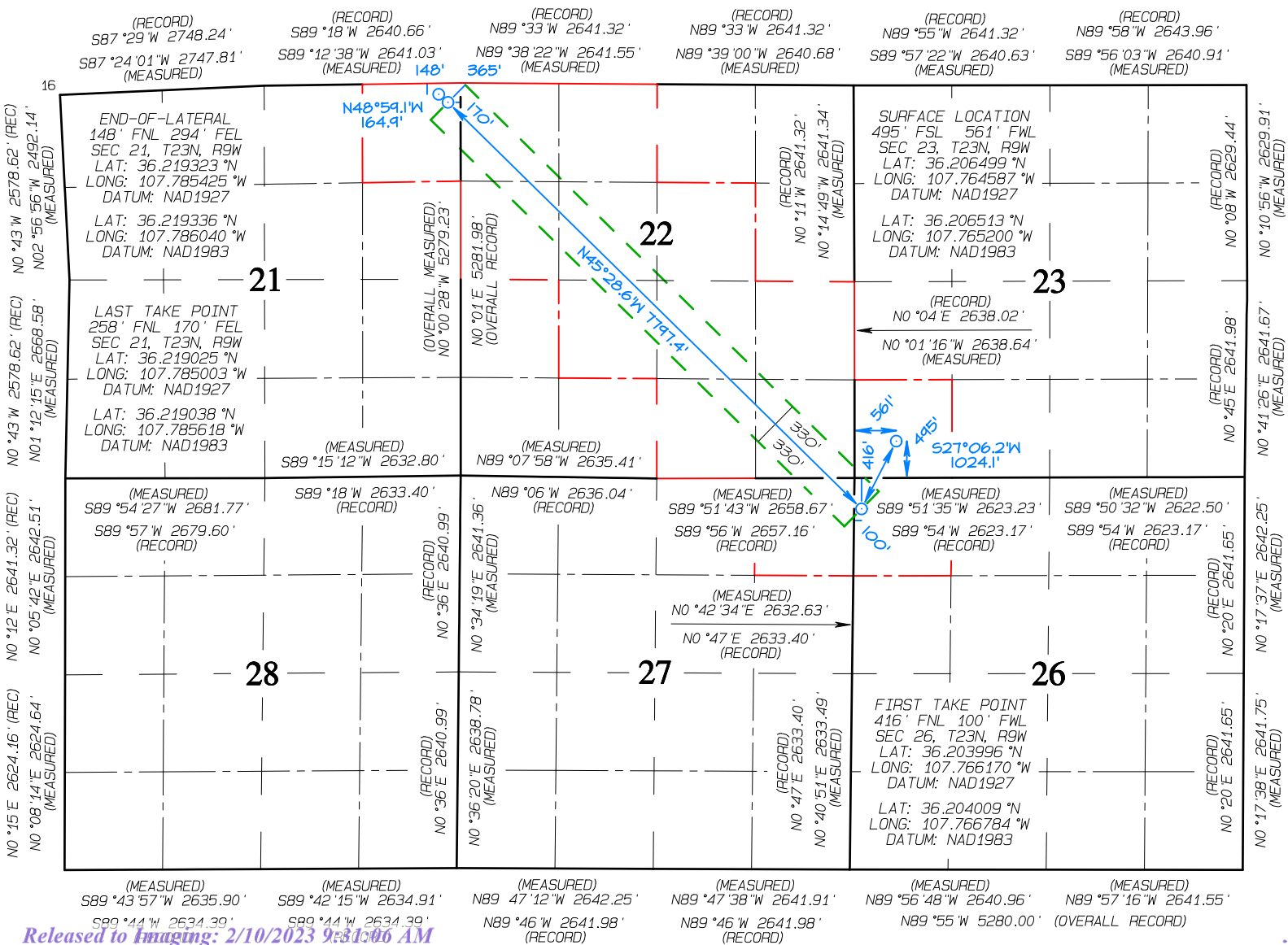
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	23N	9W		495	SOUTH	561	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
A	21	23N	9W		148	NORTH	294	EAST	SAN JUAN

¹² Dedicated Acres 560.00		NE/4 NE/4 - Section 21 NW/4, SW/4 NE/4 NE/4 SW/4, SE/4 - Section 22 SW/4 SW/4 - Section 23 NW/4 NW/4 - Section 26 NE/4 NE/4 - Section 27		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. R-22081	
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									



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Energy, Minerals & Natural Resources Department

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

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Signature Heather Huntington Date 7/20/22
Printed Name
E-mail Address hhuntington@enduringresources.com

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Date Revised: MARCH 25, 2022
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Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38269	² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 332891	⁵ Property Name GREATER LYBROOK UNIT	⁶ Well Number 761H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6747'

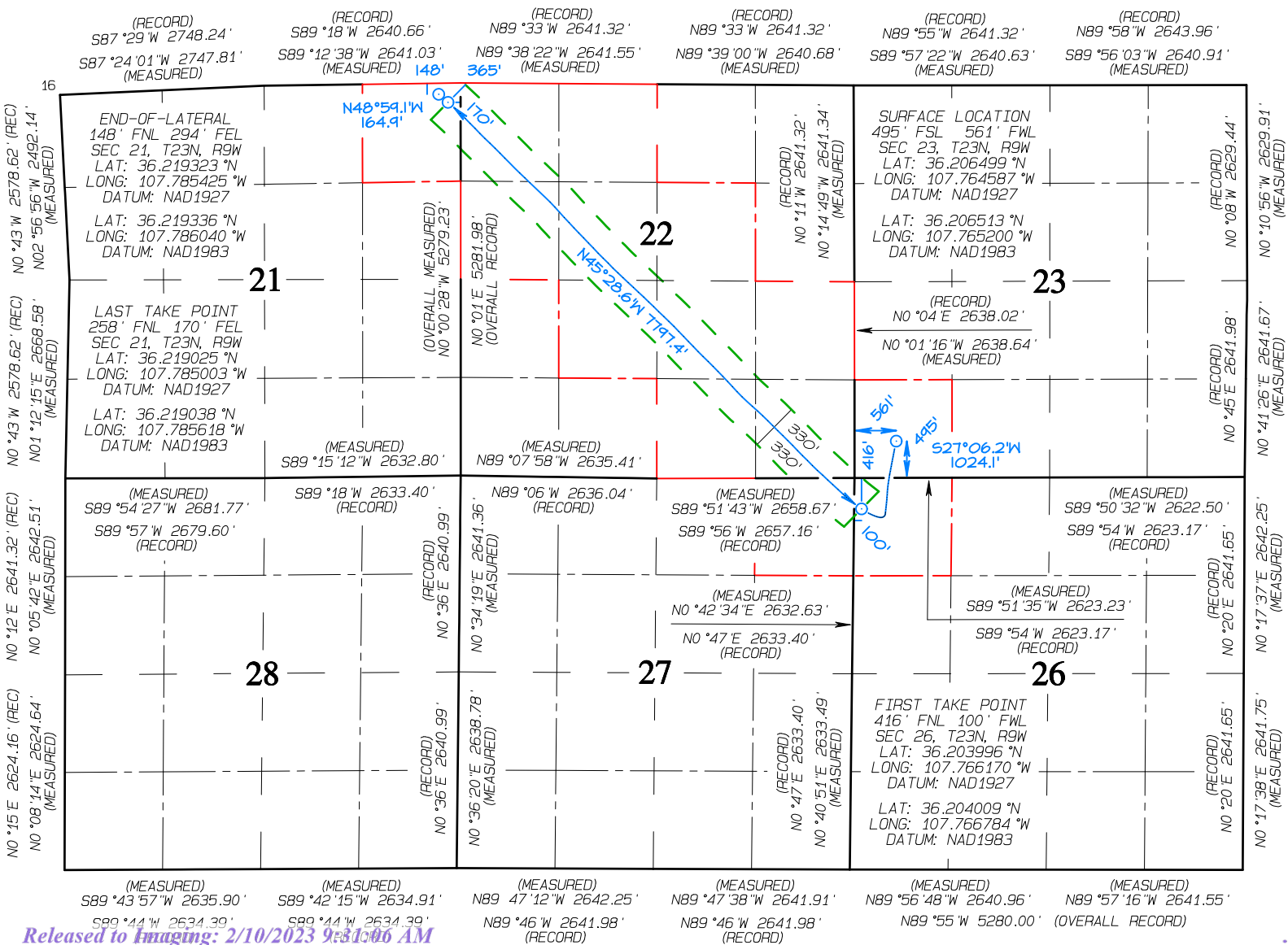
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	23N	9W		495	SOUTH	561	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
A	21	23N	9W		148	NORTH	294	EAST	SAN JUAN

¹² Dedicated Acres 560.00	NE/4 NE/4 - Section 21 NW/4, SW/4 NE/4 NE/4 SW/4, SE/4 - Section 22 SW/4 SW/4 - Section 23 NW/4 NW/4 - Section 26 NE/4 NE/4 - Section 27	¹³ Joint or Infill 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	¹⁴ Consolidation Code R-22081	¹⁵ Order No. R-22081
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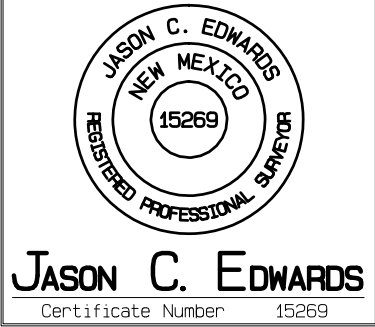
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Signature Heather Huntington Date 7/20/22
Printed Name
hhuntington@enduringresources.com
E-mail Address

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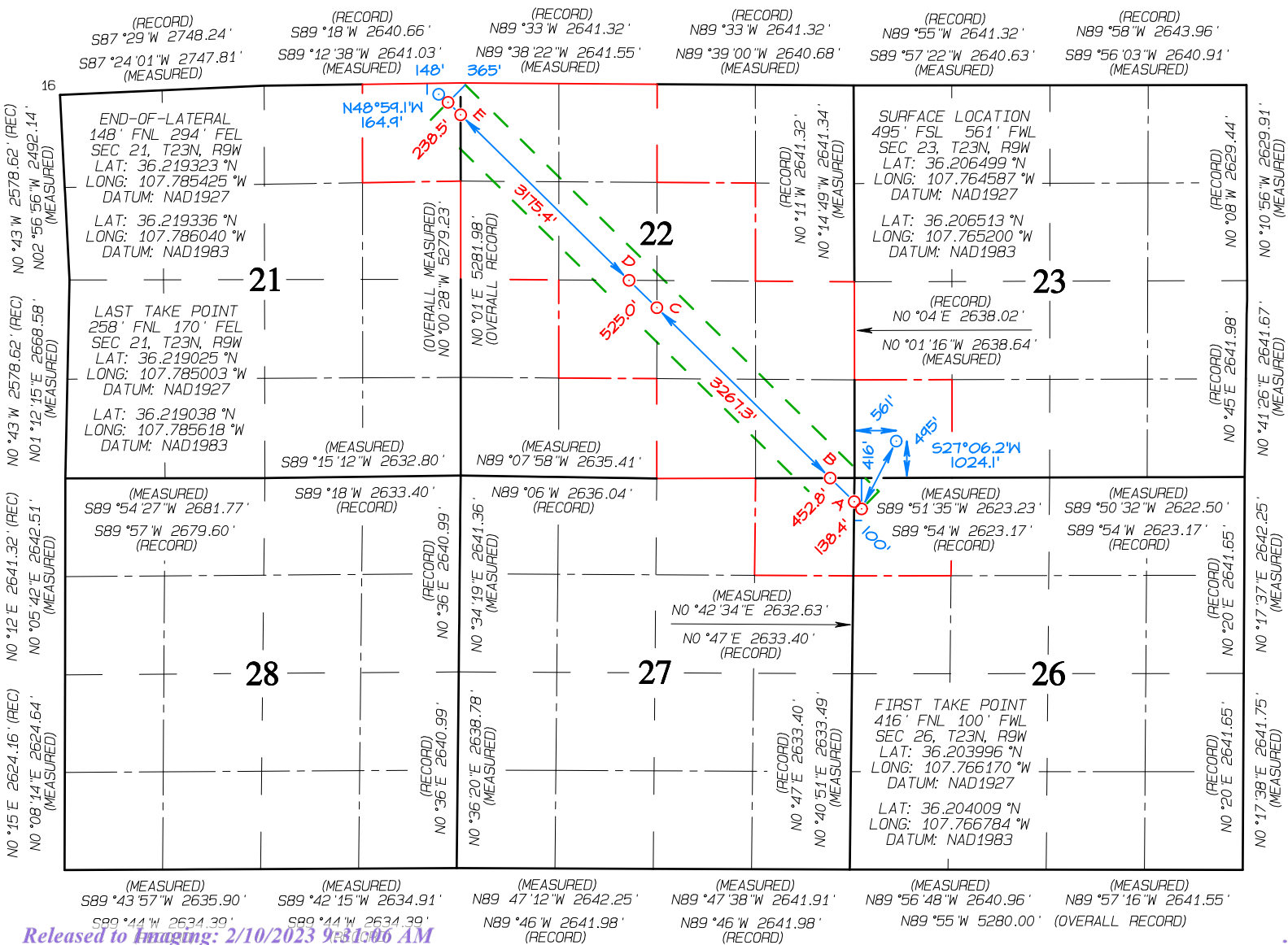


1 API Number 30-045-38269		2 Pool Code 98157		3 Pool Name LYBROOK MANCOS W	
4 Property Code 332891		5 Property Name GREATER LYBROOK UNIT			6 Well Number 761H
7 OGRID No. 372286		8 Operator Name ENDURING RESOURCES, LLC			9 Elevation 6747'

10 Surface Location									
UL or lot no. M	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 495	North/South line SOUTH	Feet from the 561	East/West line WEST	County SAN JUAN

11 Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 21	Township 23N	Range 9W	Lot Idn	Feet from the 148	North/South line NORTH	Feet from the 294	East/West line EAST	County SAN JUAN

12 Dedicated Acres 560.00 NE/4 NE/4 - Section 21 NW/4, SW/4 NE/4 NE/4 SW/4, SE/4 - Section 22 SW/4 SW/4 - Section 23 NW/4 NW/4 - Section 26 NE/4 NE/4 - Section 27					13 Joint or Infill	14 Consolidation Code	15 Order No. R-22081
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							



(A) 318' FNL 0' FEL
SEC 27, T23N, R9W
LAT: 36.204263 °N
LONG: 107.766504 °W
DATUM: NAD1927

LAT: 36.204276 °N
LONG: 107.767118 °W
DATUM: NAD1983

(B) 0' FNL 327' FEL
SEC 27, T23N, R9W
LAT: 36.205136 °N
LONG: 107.767598 °W
DATUM: NAD1927

LAT: 36.205149 °N
LONG: 107.768212 °W
DATUM: NAD1983

(C) 2297' FSL 2655' FEL
SEC 22, T23N, R9W
LAT: 36.211433 °N
LONG: 107.775489 °W
DATUM: NAD1927

LAT: 36.211447 °N
LONG: 107.776103 °W
DATUM: NAD1983

(D) 2659' FSL 2264' FWL
SEC 22, T23N, R9W
LAT: 36.212445 °N
LONG: 107.776757 °W
DATUM: NAD1927

LAT: 36.212458 °N
LONG: 107.777371 °W
DATUM: NAD1983

(E) 428' FNL 0' FWL
SEC 22, T23N, R9W
LAT: 36.218566 °N
LONG: 107.784427 °W
DATUM: NAD1927

LAT: 36.218579 °N
LONG: 107.785042 °W
DATUM: NAD1983



Well: W Lybrook Unit No. 761H
Site: W Lybrook Unit
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig: Ensign 773

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
W Lybrook 761 FTP 206 FNL 184 FEL	4661.00	-703.08	-747.98	1893772.292	2742443.998
W Lybrook 761 LTP 234 FNL 182 FEL	4718.00	4583.80	-6034.72	1899059.154	2737157.266



Azimuths to Grid North
True North: -0.04°
Magnetic North: 8.72°

Magnetic Field
Strength: 49241.8nT
Dip Angle: 62.72°
Date: 12/18/2021
Model: IGRF2020

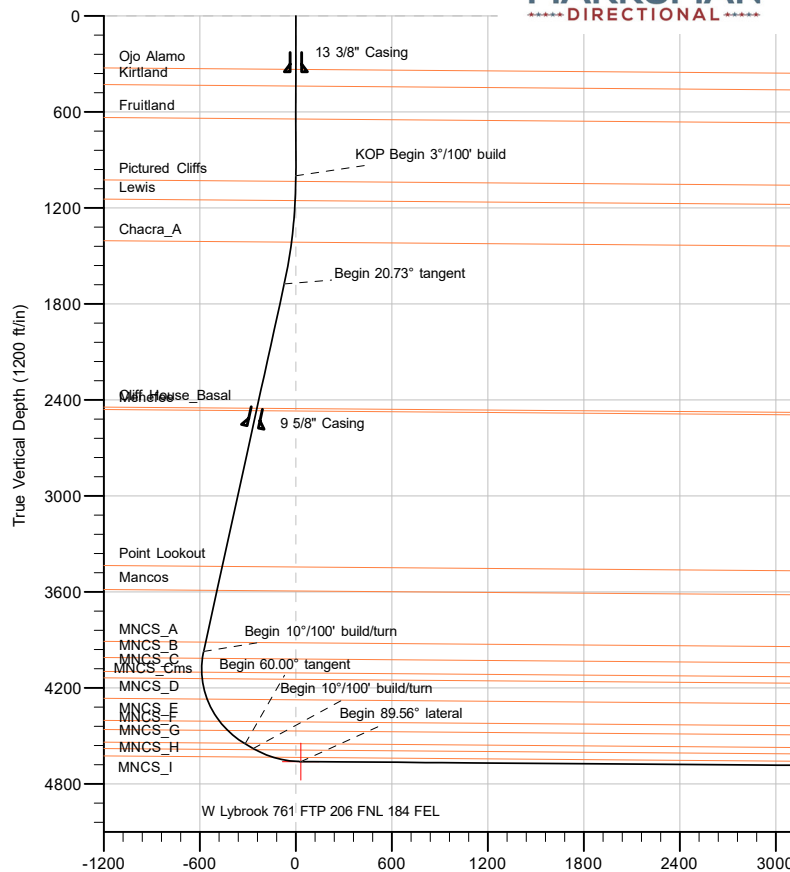
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6747+28 @ 6775.00ft (Ensign 773)
Surface location:

Northing	Easting	Latitude	Longitude
1894475.367	2743191.974	36.206513000	-107.765200000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.717°

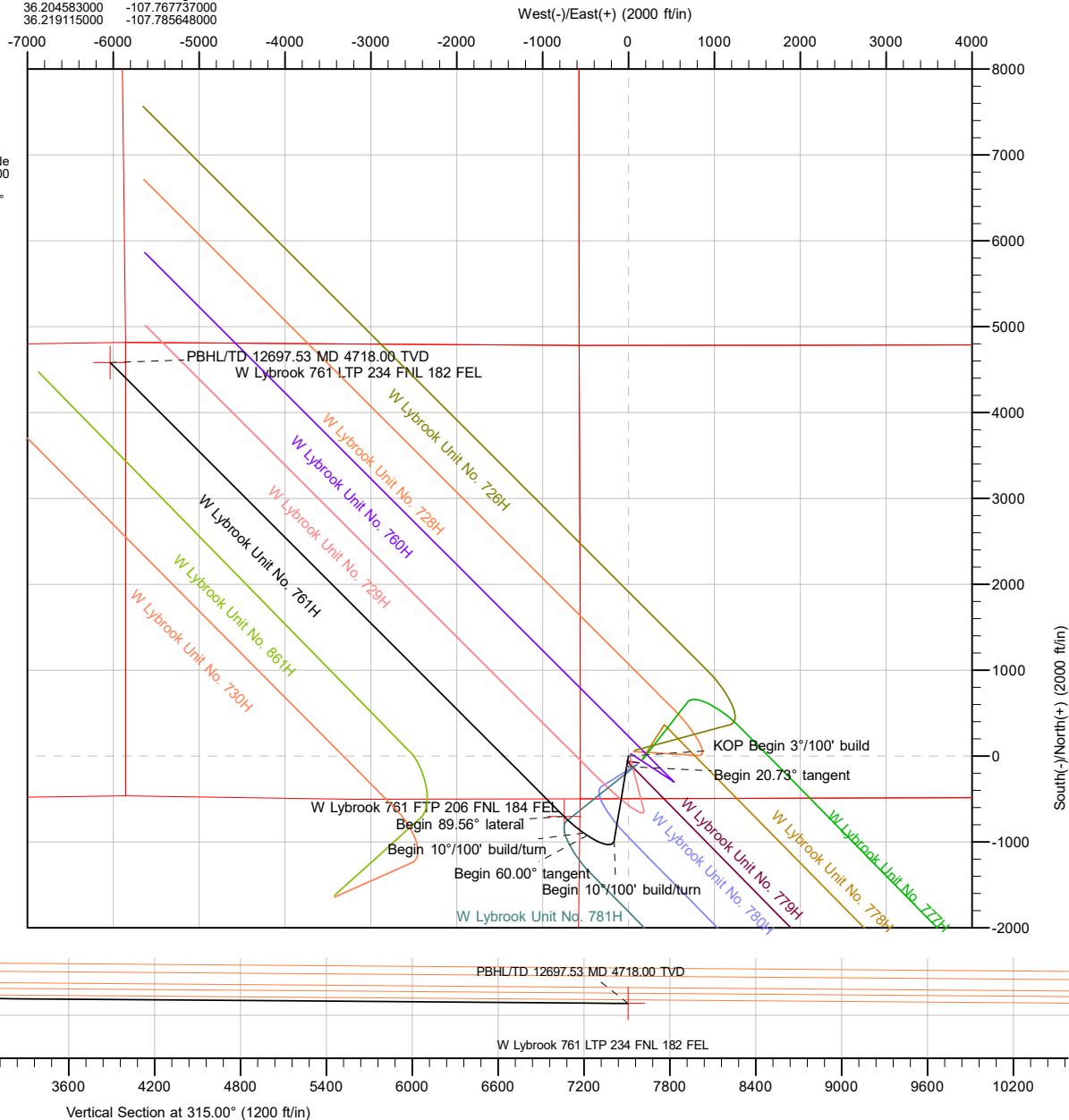
CASING DETAILS

TVD	MD	Name
350.00	350.00	13 3/8" Casing
2570.00	2646.88	9 5/8" Casing



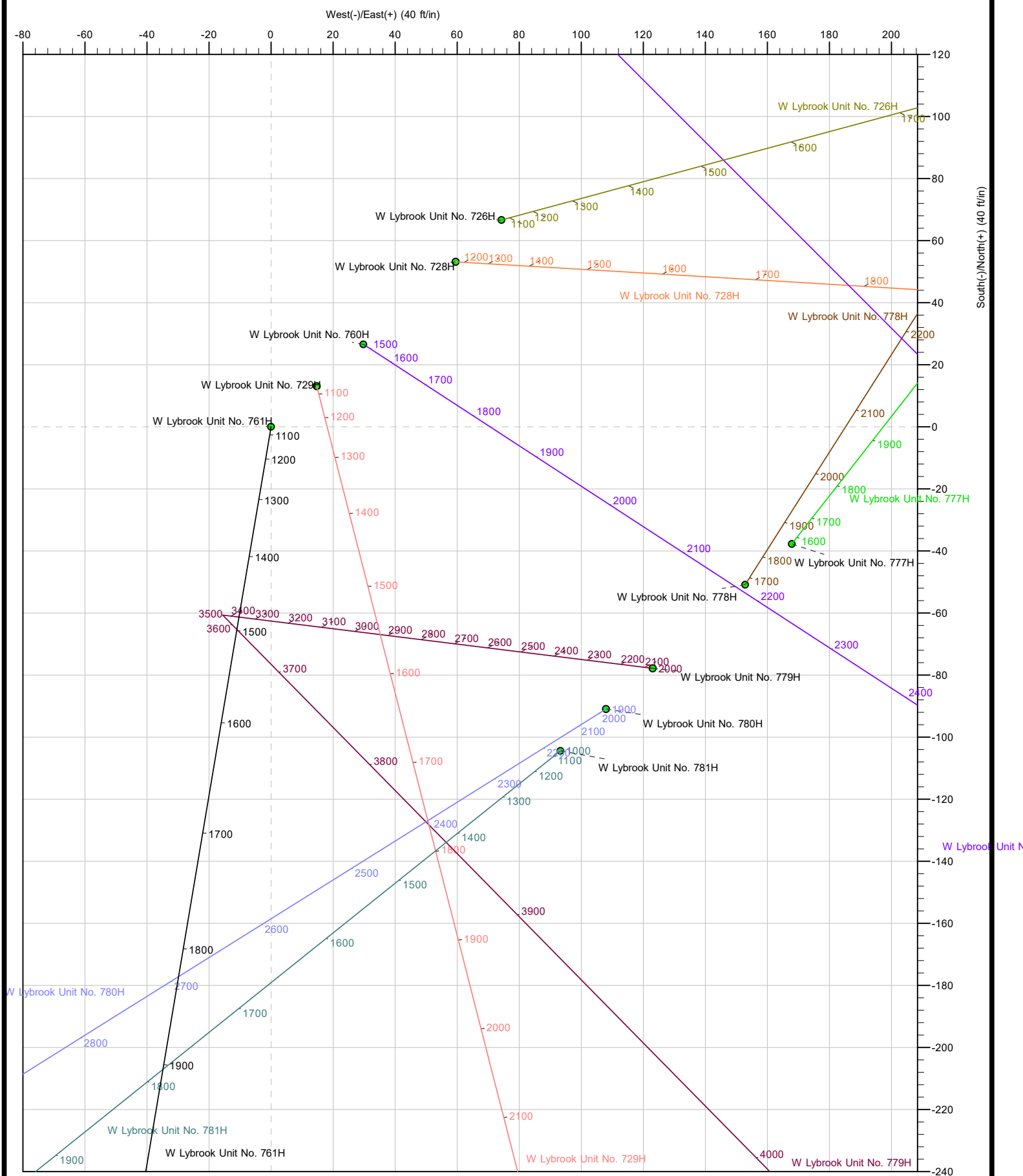
14:22, December 19 2021

Section Details										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 3°/100' build
3	1691.12	20.73	189.55	1676.13	-121.97	-20.52	3.00	189.549	-71.74	Begin 20.73° tangent
4	4146.30	20.73	189.55	3972.31	-979.12	-164.71	0.00	0.000	-575.87	Begin 10°/100' build/turn
5	4847.60	60.00	304.17	4549.50	-923.90	-476.49	10.00	123.162	-316.37	Begin 60.00° tangent
6	4907.60	60.00	304.17	4579.50	-894.72	-519.48	0.00	0.000	-265.33	Begin 10°/100' build/turn
7	5220.68	89.56	315.00	4661.00	-703.10	-748.05	10.00	21.199	31.79	Begin 89.56° lateral
8	12697.53	89.56	315.00	4718.00	4583.80	-6034.72	0.00	0.000	7508.42	PBHL/TD 12697.53 MD 4718.00





Well: W Lybrook Unit No. 761H
Site: W Lybrook Unit
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig: Ensight 773



14:28, December 19, 2021



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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

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

Well	W Lybrook Unit No. 761H, Surf loc: 495 FSL 561 FWL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,894,475.367 usft	Latitude:	36.206513000
	+E/-W	0.00 ft	Easting:	2,743,191.974 usft	Longitude:	-107.765200000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,747.00 ft
Grid Convergence:		0.040 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/18/2021	8.757	62.724	49,241.75428234

Design	rev0				
Audit Notes:					
Version:		Phase:	PLAN	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	

Plan Survey Tool Program	Date	12/19/2021			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	12,697.53 rev0 (Original Hole)	MWD		
			OWSG MWD - Standard		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,691.12	20.73	189.55	1,676.13	-121.97	-20.52	3.00	3.00	0.00	189.549	
4,146.30	20.73	189.55	3,972.31	-979.12	-164.71	0.00	0.00	0.00	0.000	
4,847.60	60.00	304.17	4,549.50	-923.90	-476.49	10.00	5.60	16.34	123.162	
4,907.60	60.00	304.17	4,579.50	-894.72	-519.48	0.00	0.00	0.00	0.000	
5,220.68	89.56	315.00	4,661.00	-703.10	-748.05	10.00	9.44	3.46	21.199	
12,697.53	89.56	315.00	4,718.00	4,583.80	-6,034.72	0.00	0.00	0.00	0.000	W Lybrook 761 LTP 2



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned 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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
335.00	0.00	0.00	335.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo									
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
440.00	0.00	0.00	440.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
645.00	0.00	0.00	645.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,035.00	1.05	189.55	1,035.00	-0.32	-0.05	-0.19	3.00	3.00	0.00
Pictured Cliffs									
1,100.00	3.00	189.55	1,099.95	-2.58	-0.43	-1.52	3.00	3.00	0.00
1,155.14	4.65	189.55	1,154.97	-6.21	-1.04	-3.65	3.00	3.00	0.00
Lewis									
1,200.00	6.00	189.55	1,199.63	-10.32	-1.74	-6.07	3.00	3.00	0.00
1,300.00	9.00	189.55	1,298.77	-23.19	-3.90	-13.64	3.00	3.00	0.00
1,400.00	12.00	189.55	1,397.08	-41.16	-6.92	-24.21	3.00	3.00	0.00
1,418.13	12.54	189.55	1,414.80	-44.96	-7.56	-26.44	3.00	3.00	0.00
Chacra_A									
1,500.00	15.00	189.55	1,494.31	-64.18	-10.80	-37.74	3.00	3.00	0.00
1,600.00	18.00	189.55	1,590.18	-92.18	-15.51	-54.22	3.00	3.00	0.00
1,691.12	20.73	189.55	1,676.13	-121.97	-20.52	-71.74	3.00	3.00	0.00
Begin 20.73° tangent									
1,700.00	20.73	189.55	1,684.44	-125.08	-21.04	-73.56	0.00	0.00	0.00
1,800.00	20.73	189.55	1,777.96	-159.99	-26.91	-94.10	0.00	0.00	0.00
1,900.00	20.73	189.55	1,871.49	-194.90	-32.79	-114.63	0.00	0.00	0.00
2,000.00	20.73	189.55	1,965.01	-229.81	-38.66	-135.16	0.00	0.00	0.00
2,100.00	20.73	189.55	2,058.53	-264.72	-44.53	-155.70	0.00	0.00	0.00
2,200.00	20.73	189.55	2,152.06	-299.63	-50.41	-176.23	0.00	0.00	0.00
2,300.00	20.73	189.55	2,245.58	-334.54	-56.28	-196.76	0.00	0.00	0.00
2,400.00	20.73	189.55	2,339.11	-369.46	-62.15	-217.30	0.00	0.00	0.00
2,500.00	20.73	189.55	2,432.63	-404.37	-68.03	-237.83	0.00	0.00	0.00
2,521.93	20.73	189.55	2,453.14	-412.02	-69.31	-242.33	0.00	0.00	0.00
Cliff House_Basal									
2,537.94	20.73	189.55	2,468.11	-417.61	-70.25	-245.62	0.00	0.00	0.00
Menefee									
2,600.00	20.73	189.55	2,526.15	-439.28	-73.90	-258.36	0.00	0.00	0.00
2,700.00	20.73	189.55	2,619.68	-474.19	-79.77	-278.90	0.00	0.00	0.00
2,800.00	20.73	189.55	2,713.20	-509.10	-85.64	-299.43	0.00	0.00	0.00
2,900.00	20.73	189.55	2,806.72	-544.01	-91.52	-319.96	0.00	0.00	0.00
3,000.00	20.73	189.55	2,900.25	-578.93	-97.39	-340.50	0.00	0.00	0.00
3,100.00	20.73	189.55	2,993.77	-613.84	-103.26	-361.03	0.00	0.00	0.00
3,200.00	20.73	189.55	3,087.30	-648.75	-109.14	-381.56	0.00	0.00	0.00
3,300.00	20.73	189.55	3,180.82	-683.66	-115.01	-402.10	0.00	0.00	0.00



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,400.00	20.73	189.55	3,274.34	-718.57	-120.88	-422.63	0.00	0.00	0.00
3,500.00	20.73	189.55	3,367.87	-753.48	-126.76	-443.16	0.00	0.00	0.00
3,578.70	20.73	189.55	3,441.47	-780.96	-131.38	-459.32	0.00	0.00	0.00
Point Lookout									
3,600.00	20.73	189.55	3,461.39	-788.39	-132.63	-463.70	0.00	0.00	0.00
3,700.00	20.73	189.55	3,554.91	-823.31	-138.50	-484.23	0.00	0.00	0.00
3,738.82	20.73	189.55	3,591.22	-836.86	-140.78	-492.20	0.00	0.00	0.00
Mancos									
3,800.00	20.73	189.55	3,648.44	-858.22	-144.37	-504.76	0.00	0.00	0.00
3,900.00	20.73	189.55	3,741.96	-893.13	-150.25	-525.30	0.00	0.00	0.00
4,000.00	20.73	189.55	3,835.49	-928.04	-156.12	-545.83	0.00	0.00	0.00
4,084.67	20.73	189.55	3,914.67	-957.60	-161.09	-563.22	0.00	0.00	0.00
MNCS_A									
4,100.00	20.73	189.55	3,929.01	-962.95	-161.99	-566.36	0.00	0.00	0.00
4,146.30	20.73	189.55	3,972.31	-979.12	-164.71	-575.87	0.00	0.00	0.00
Begin 10°/100' build/turn									
4,150.00	20.53	190.43	3,975.77	-980.40	-164.94	-576.62	10.00	-5.41	23.87
4,192.17	18.61	201.66	4,015.52	-993.93	-168.76	-583.48	10.00	-4.57	26.63
MNCS_B									
4,200.00	18.33	203.97	4,022.95	-996.22	-169.72	-584.42	10.00	-3.53	29.54
4,250.00	17.29	220.02	4,070.58	-1,009.10	-177.70	-587.89	10.00	-2.08	32.09
4,283.41	17.35	231.25	4,102.49	-1,016.02	-184.78	-587.78	10.00	0.19	33.63
MNCS_C									
4,300.00	17.61	236.71	4,118.31	-1,018.95	-188.81	-587.00	10.00	1.58	32.88
4,326.49	18.33	244.98	4,143.51	-1,022.91	-195.94	-584.76	10.00	2.70	31.24
MNCS_Cms									
4,350.00	19.24	251.72	4,165.77	-1,025.69	-202.96	-581.75	10.00	3.87	28.66
4,400.00	21.87	263.87	4,212.60	-1,029.27	-220.06	-572.20	10.00	5.27	24.29
4,450.00	25.20	273.24	4,258.45	-1,029.66	-239.96	-558.41	10.00	6.66	18.74
4,463.64	26.20	275.39	4,270.75	-1,029.22	-245.86	-553.92	10.00	7.30	15.77
MNCS_D									
4,500.00	28.99	280.43	4,302.97	-1,026.87	-262.52	-540.48	10.00	7.67	13.86
4,550.00	33.07	286.04	4,345.81	-1,020.90	-287.56	-518.55	10.00	8.17	11.21
4,600.00	37.36	290.51	4,386.66	-1,011.81	-314.90	-492.79	10.00	8.57	8.95
4,629.04	39.92	292.72	4,409.34	-1,005.12	-331.75	-476.15	10.00	8.80	7.61
MNCS_E									
4,650.00	41.78	294.17	4,425.20	-999.67	-344.33	-463.40	10.00	8.91	6.93
4,700.00	46.31	297.24	4,461.13	-984.56	-375.61	-430.59	10.00	9.04	6.15
4,708.17	47.05	297.70	4,466.74	-981.82	-380.89	-424.92	10.00	9.13	5.60
MNCS_F									
4,750.00	50.90	299.88	4,494.19	-966.61	-408.53	-394.63	10.00	9.19	5.21
4,800.00	55.54	302.20	4,524.12	-945.95	-442.81	-355.77	10.00	9.29	4.63
4,843.71	59.63	304.02	4,547.55	-925.79	-473.70	-319.67	10.00	9.36	4.16
MNCS_G									
4,847.60	60.00	304.17	4,549.50	-923.90	-476.49	-316.37	10.00	9.39	3.97
Begin 60.00° tangent									
4,907.60	60.00	304.17	4,579.50	-894.72	-519.48	-265.33	0.00	0.00	0.00
Begin 10°/100' build/turn									
4,923.06	61.44	304.81	4,587.06	-887.08	-530.60	-252.07	10.00	9.33	4.12
MNCS_H									
4,950.00	63.96	305.88	4,599.42	-873.23	-550.12	-228.47	10.00	9.36	3.97
5,000.00	68.66	307.74	4,619.50	-845.80	-586.76	-183.17	10.00	9.40	3.74



Planning Report

Database: DB_Dec2220_v16
Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: W Lybrook Unit
Well: W Lybrook Unit No. 761H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference: Well W Lybrook Unit No. 761H
TVD Reference: RKB=6747+28 @ 6775.00ft (Ensign 773)
MD Reference: RKB=6747+28 @ 6775.00ft (Ensign 773)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,043.65	72.78	309.28	4,633.91	-820.14	-618.99	-142.24	10.00	9.43	3.52
MNCS_I									
5,050.00	73.38	309.50	4,635.76	-816.29	-623.68	-136.19	10.00	9.45	3.42
5,100.00	78.11	311.16	4,648.06	-784.93	-660.61	-87.91	10.00	9.46	3.34
5,150.00	82.85	312.78	4,656.33	-751.96	-697.26	-38.68	10.00	9.48	3.22
5,200.00	87.60	314.35	4,660.49	-717.63	-733.35	11.12	10.00	9.49	3.16
5,220.68	89.56	315.00	4,661.00	-703.10	-748.05	31.79	10.00	9.50	3.13
Begin 89.56° lateral									
5,300.00	89.56	315.00	4,661.61	-647.01	-804.13	111.11	0.00	0.00	0.00
5,400.00	89.56	315.00	4,662.37	-576.30	-874.84	211.10	0.00	0.00	0.00
5,500.00	89.56	315.00	4,663.13	-505.59	-945.55	311.10	0.00	0.00	0.00
5,600.00	89.56	315.00	4,663.89	-434.88	-1,016.26	411.10	0.00	0.00	0.00
5,700.00	89.56	315.00	4,664.66	-364.17	-1,086.96	511.09	0.00	0.00	0.00
5,800.00	89.56	315.00	4,665.42	-293.46	-1,157.67	611.09	0.00	0.00	0.00
5,900.00	89.56	315.00	4,666.18	-222.75	-1,228.38	711.09	0.00	0.00	0.00
6,000.00	89.56	315.00	4,666.94	-152.04	-1,299.08	811.09	0.00	0.00	0.00
6,100.00	89.56	315.00	4,667.71	-81.33	-1,369.79	911.08	0.00	0.00	0.00
6,200.00	89.56	315.00	4,668.47	-10.62	-1,440.50	1,011.08	0.00	0.00	0.00
6,300.00	89.56	315.00	4,669.23	60.09	-1,511.21	1,111.08	0.00	0.00	0.00
6,400.00	89.56	315.00	4,669.99	130.80	-1,581.91	1,211.07	0.00	0.00	0.00
6,500.00	89.56	315.00	4,670.75	201.51	-1,652.62	1,311.07	0.00	0.00	0.00
6,600.00	89.56	315.00	4,671.52	272.22	-1,723.33	1,411.07	0.00	0.00	0.00
6,700.00	89.56	315.00	4,672.28	342.93	-1,794.03	1,511.07	0.00	0.00	0.00
6,800.00	89.56	315.00	4,673.04	413.64	-1,864.74	1,611.06	0.00	0.00	0.00
6,900.00	89.56	315.00	4,673.80	484.35	-1,935.45	1,711.06	0.00	0.00	0.00
7,000.00	89.56	315.00	4,674.57	555.06	-2,006.16	1,811.06	0.00	0.00	0.00
7,100.00	89.56	315.00	4,675.33	625.77	-2,076.86	1,911.05	0.00	0.00	0.00
7,200.00	89.56	315.00	4,676.09	696.48	-2,147.57	2,011.05	0.00	0.00	0.00
7,300.00	89.56	315.00	4,676.85	767.19	-2,218.28	2,111.05	0.00	0.00	0.00
7,400.00	89.56	315.00	4,677.62	837.91	-2,288.98	2,211.04	0.00	0.00	0.00
7,500.00	89.56	315.00	4,678.38	908.62	-2,359.69	2,311.04	0.00	0.00	0.00
7,600.00	89.56	315.00	4,679.14	979.33	-2,430.40	2,411.04	0.00	0.00	0.00
7,700.00	89.56	315.00	4,679.90	1,050.04	-2,501.11	2,511.04	0.00	0.00	0.00
7,800.00	89.56	315.00	4,680.66	1,120.75	-2,571.81	2,611.03	0.00	0.00	0.00
7,900.00	89.56	315.00	4,681.43	1,191.46	-2,642.52	2,711.03	0.00	0.00	0.00
8,000.00	89.56	315.00	4,682.19	1,262.17	-2,713.23	2,811.03	0.00	0.00	0.00
8,100.00	89.56	315.00	4,682.95	1,332.88	-2,783.93	2,911.02	0.00	0.00	0.00
8,200.00	89.56	315.00	4,683.71	1,403.59	-2,854.64	3,011.02	0.00	0.00	0.00
8,300.00	89.56	315.00	4,684.48	1,474.30	-2,925.35	3,111.02	0.00	0.00	0.00
8,400.00	89.56	315.00	4,685.24	1,545.01	-2,996.06	3,211.02	0.00	0.00	0.00
8,500.00	89.56	315.00	4,686.00	1,615.72	-3,066.76	3,311.01	0.00	0.00	0.00
8,600.00	89.56	315.00	4,686.76	1,686.43	-3,137.47	3,411.01	0.00	0.00	0.00
8,700.00	89.56	315.00	4,687.53	1,757.14	-3,208.18	3,511.01	0.00	0.00	0.00
8,800.00	89.56	315.00	4,688.29	1,827.85	-3,278.88	3,611.00	0.00	0.00	0.00
8,900.00	89.56	315.00	4,689.05	1,898.56	-3,349.59	3,711.00	0.00	0.00	0.00
9,000.00	89.56	315.00	4,689.81	1,969.27	-3,420.30	3,811.00	0.00	0.00	0.00
9,100.00	89.56	315.00	4,690.58	2,039.98	-3,491.01	3,911.00	0.00	0.00	0.00
9,200.00	89.56	315.00	4,691.34	2,110.69	-3,561.71	4,010.99	0.00	0.00	0.00
9,300.00	89.56	315.00	4,692.10	2,181.40	-3,632.42	4,110.99	0.00	0.00	0.00
9,400.00	89.56	315.00	4,692.86	2,252.11	-3,703.13	4,210.99	0.00	0.00	0.00
9,500.00	89.56	315.00	4,693.62	2,322.82	-3,773.84	4,310.98	0.00	0.00	0.00
9,600.00	89.56	315.00	4,694.39	2,393.53	-3,844.54	4,410.98	0.00	0.00	0.00
9,700.00	89.56	315.00	4,695.15	2,464.24	-3,915.25	4,510.98	0.00	0.00	0.00
9,800.00	89.56	315.00	4,695.91	2,534.95	-3,985.96	4,610.98	0.00	0.00	0.00



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,900.00	89.56	315.00	4,696.67	2,605.66	-4,056.66	4,710.97	0.00	0.00	0.00
10,000.00	89.56	315.00	4,697.44	2,676.37	-4,127.37	4,810.97	0.00	0.00	0.00
10,100.00	89.56	315.00	4,698.20	2,747.08	-4,198.08	4,910.97	0.00	0.00	0.00
10,200.00	89.56	315.00	4,698.96	2,817.79	-4,268.79	5,010.96	0.00	0.00	0.00
10,300.00	89.56	315.00	4,699.72	2,888.50	-4,339.49	5,110.96	0.00	0.00	0.00
10,400.00	89.56	315.00	4,700.49	2,959.21	-4,410.20	5,210.96	0.00	0.00	0.00
10,500.00	89.56	315.00	4,701.25	3,029.92	-4,480.91	5,310.95	0.00	0.00	0.00
10,600.00	89.56	315.00	4,702.01	3,100.63	-4,551.61	5,410.95	0.00	0.00	0.00
10,700.00	89.56	315.00	4,702.77	3,171.34	-4,622.32	5,510.95	0.00	0.00	0.00
10,800.00	89.56	315.00	4,703.53	3,242.05	-4,693.03	5,610.95	0.00	0.00	0.00
10,900.00	89.56	315.00	4,704.30	3,312.76	-4,763.74	5,710.94	0.00	0.00	0.00
11,000.00	89.56	315.00	4,705.06	3,383.47	-4,834.44	5,810.94	0.00	0.00	0.00
11,100.00	89.56	315.00	4,705.82	3,454.18	-4,905.15	5,910.94	0.00	0.00	0.00
11,200.00	89.56	315.00	4,706.58	3,524.89	-4,975.86	6,010.93	0.00	0.00	0.00
11,300.00	89.56	315.00	4,707.35	3,595.60	-5,046.56	6,110.93	0.00	0.00	0.00
11,400.00	89.56	315.00	4,708.11	3,666.31	-5,117.27	6,210.93	0.00	0.00	0.00
11,500.00	89.56	315.00	4,708.87	3,737.02	-5,187.98	6,310.93	0.00	0.00	0.00
11,600.00	89.56	315.00	4,709.63	3,807.73	-5,258.69	6,410.92	0.00	0.00	0.00
11,700.00	89.56	315.00	4,710.40	3,878.44	-5,329.39	6,510.92	0.00	0.00	0.00
11,800.00	89.56	315.00	4,711.16	3,949.15	-5,400.10	6,610.92	0.00	0.00	0.00
11,900.00	89.56	315.00	4,711.92	4,019.86	-5,470.81	6,710.91	0.00	0.00	0.00
12,000.00	89.56	315.00	4,712.68	4,090.57	-5,541.51	6,810.91	0.00	0.00	0.00
12,100.00	89.56	315.00	4,713.44	4,161.28	-5,612.22	6,910.91	0.00	0.00	0.00
12,200.00	89.56	315.00	4,714.21	4,231.99	-5,682.93	7,010.91	0.00	0.00	0.00
12,300.00	89.56	315.00	4,714.97	4,302.70	-5,753.64	7,110.90	0.00	0.00	0.00
12,400.00	89.56	315.00	4,715.73	4,373.41	-5,824.34	7,210.90	0.00	0.00	0.00
12,500.00	89.56	315.00	4,716.49	4,444.12	-5,895.05	7,310.90	0.00	0.00	0.00
12,600.00	89.56	315.00	4,717.26	4,514.83	-5,965.76	7,410.89	0.00	0.00	0.00
12,697.53	89.56	315.00	4,718.00	4,583.80	-6,034.72	7,508.43	0.00	0.00	0.00
PBHL/TD 12697.53 MD 4718.00 TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
W Lybrook 761 FTP 206	0.00	0.00	4,661.00	-703.08	-747.98	1,893,772.292	2,742,443.998	36.204583000	-107.767737000
- hit/miss target									
- plan misses target center by 0.06ft at 5220.64ft MD (4661.00 TVD, -703.12 N, -748.02 E)									
- Point									
W Lybrook 761 LTP 234	0.00	0.00	4,718.00	4,583.80	-6,034.72	1,899,059.154	2,737,157.266	36.219115000	-107.785648000
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	13 3/8" Casing	13-5/8	17-1/2	
2,646.88	2,570.00	9 5/8" Casing	9-5/8	12-1/4	



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
335.00	335.00	Ojo Alamo		0.440	315.00	
440.00	440.00	Kirtland		0.440	315.00	
645.00	645.00	Fruitland		0.440	315.00	
1,035.00	1,035.00	Pictured Cliffs		0.440	315.00	
1,155.14	1,154.97	Lewis		0.440	315.00	
1,418.13	1,414.80	Chacra_A		0.440	315.00	
2,521.93	2,453.14	Cliff House_Basal		0.440	315.00	
2,537.94	2,468.11	Menefee		0.440	315.00	
3,578.70	3,441.47	Point Lookout		0.440	315.00	
3,738.82	3,591.22	Mancos		0.440	315.00	
4,084.67	3,914.67	MNCS_A		0.440	315.00	
4,192.17	4,015.52	MNCS_B		0.440	315.00	
4,283.41	4,102.49	MNCS_C		0.440	315.00	
4,326.49	4,143.51	MNCS_Cms		0.440	315.00	
4,463.64	4,270.75	MNCS_D		0.440	315.00	
4,629.04	4,409.34	MNCS_E		0.440	315.00	
4,708.17	4,466.74	MNCS_F		0.440	315.00	
4,843.71	4,547.55	MNCS_G		0.440	315.00	
4,923.06	4,587.06	MNCS_H		0.440	315.00	
5,043.65	4,633.91	MNCS_I		0.440	315.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,691.12	1,676.13	-121.97	-20.52	Begin 20.73° tangent	
4,146.30	3,972.31	-979.12	-164.71	Begin 10°/100' build/turn	
4,847.60	4,549.50	-923.90	-476.49	Begin 60.00° tangent	
4,907.60	4,579.50	-894.72	-519.48	Begin 10°/100' build/turn	
5,220.68	4,661.00	-703.10	-748.05	Begin 89.56° lateral	
12,697.53	4,718.00	4,583.80	-6,034.72	PBHL/TD 12697.53 MD 4718.00 TVD	



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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

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

Well	W Lybrook Unit No. 761H, Surf loc: 495 FSL 561 FWL Section 23-T23N-R09W						
Well Position	+N/-S	0.00 ft	Northing:	1,894,475.367	usft	Latitude:	36.206513000
	+E/-W	0.00 ft	Easting:	2,743,191.974	usft	Longitude:	-107.765200000
Position Uncertainty		0.00 ft	Wellhead Elevation:		ft	Ground Level:	6,747.00 ft
Grid Convergence:							

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/18/2021	8.757	62.724	49,241.75428234

Design	rev0			
Audit Notes:				
Version:	Phase:	PLAN	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

Plan Survey Tool Program	Date			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,697.53 rev0 (Original Hole)		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,691.12	20.73	189.55	1,676.13	-121.97	-20.52	3.00	3.00	0.00	189.549	
4,146.30	20.73	189.55	3,972.31	-979.12	-164.71	0.00	0.00	0.00	0.000	
4,847.60	60.00	304.17	4,549.50	-923.90	-476.49	10.00	5.60	16.34	123.162	
4,907.60	60.00	304.17	4,579.50	-894.72	-519.48	0.00	0.00	0.00	0.000	
5,220.68	89.56	315.00	4,661.00	-703.10	-748.05	10.00	9.44	3.46	21.199	
12,697.53	89.56	315.00	4,718.00	4,583.80	-6,034.72	0.00	0.00	0.00	0.000	W Lybrook 761 LTP 2



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned 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	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
100.00	0.00	0.00	100.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
200.00	0.00	0.00	200.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
300.00	0.00	0.00	300.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
335.00	0.00	0.00	335.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
Ojo Alamo									
400.00	0.00	0.00	400.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
440.00	0.00	0.00	440.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
Kirtland									
500.00	0.00	0.00	500.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
600.00	0.00	0.00	600.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
645.00	0.00	0.00	645.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
Fruitland									
700.00	0.00	0.00	700.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
800.00	0.00	0.00	800.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
900.00	0.00	0.00	900.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,894,475.367	2,743,191.974	36.206513000	-107.765200000
KOP Begin 3°/100' build									
1,035.00	1.05	189.55	1,035.00	-0.32	-0.05	1,894,475.051	2,743,191.921	36.206512131	-107.765200181
Pictured Cliffs									
1,100.00	3.00	189.55	1,099.95	-2.58	-0.43	1,894,472.786	2,743,191.540	36.206505910	-107.765201478
1,155.14	4.65	189.55	1,154.97	-6.21	-1.04	1,894,469.157	2,743,190.929	36.206495941	-107.765203556
Lewis									
1,200.00	6.00	189.55	1,199.63	-10.32	-1.74	1,894,465.050	2,743,190.238	36.206484660	-107.765205908
1,300.00	9.00	189.55	1,298.77	-23.19	-3.90	1,894,452.179	2,743,188.073	36.206449309	-107.765213277
1,400.00	12.00	189.55	1,397.08	-41.16	-6.92	1,894,434.210	2,743,185.050	36.206399952	-107.765223566
1,418.13	12.54	189.55	1,414.80	-44.96	-7.56	1,894,430.411	2,743,184.411	36.206389514	-107.765225742
Chacra_A									
1,500.00	15.00	189.55	1,494.31	-64.18	-10.80	1,894,411.192	2,743,181.178	36.206336726	-107.765236747
1,600.00	18.00	189.55	1,590.18	-92.18	-15.51	1,894,383.187	2,743,176.467	36.206259803	-107.765252783
1,691.12	20.73	189.55	1,676.13	-121.97	-20.52	1,894,353.394	2,743,171.455	36.206177967	-107.765269843
Begin 20.73° tangent									
1,700.00	20.73	189.55	1,684.44	-125.08	-21.04	1,894,350.292	2,743,170.933	36.206169447	-107.765271619
1,800.00	20.73	189.55	1,777.96	-159.99	-26.91	1,894,315.381	2,743,165.060	36.206073553	-107.765291609
1,900.00	20.73	189.55	1,871.49	-194.90	-32.79	1,894,280.469	2,743,159.187	36.205977659	-107.765311600
2,000.00	20.73	189.55	1,965.01	-229.81	-38.66	1,894,245.558	2,743,153.314	36.205881765	-107.765331590
2,100.00	20.73	189.55	2,058.53	-264.72	-44.53	1,894,210.646	2,743,147.441	36.205785871	-107.765351580
2,200.00	20.73	189.55	2,152.06	-299.63	-50.41	1,894,175.735	2,743,141.568	36.205689977	-107.765371570
2,300.00	20.73	189.55	2,245.58	-334.54	-56.28	1,894,140.823	2,743,135.695	36.205594083	-107.765391561
2,400.00	20.73	189.55	2,339.11	-369.46	-62.15	1,894,105.912	2,743,129.822	36.205498189	-107.765411551
2,500.00	20.73	189.55	2,432.63	-404.37	-68.03	1,894,071.000	2,743,123.949	36.205402295	-107.765431541
2,521.93	20.73	189.55	2,453.14	-412.02	-69.31	1,894,063.344	2,743,122.661	36.205381266	-107.765435925
Cliff House_Basal									
2,537.94	20.73	189.55	2,468.11	-417.61	-70.25	1,894,057.754	2,743,121.721	36.205365912	-107.765439125
Menefee									
2,600.00	20.73	189.55	2,526.15	-439.28	-73.90	1,894,036.089	2,743,118.076	36.205306401	-107.765451531
2,700.00	20.73	189.55	2,619.68	-474.19	-79.77	1,894,001.177	2,743,112.203	36.205210507	-107.765471521
2,800.00	20.73	189.55	2,713.20	-509.10	-85.64	1,893,966.266	2,743,106.330	36.205114613	-107.765491511
2,900.00	20.73	189.55	2,806.72	-544.01	-91.52	1,893,931.354	2,743,100.457	36.205018719	-107.765511501
3,000.00	20.73	189.55	2,900.25	-578.93	-97.39	1,893,896.443	2,743,094.584	36.204922825	-107.765531491
3,100.00	20.73	189.55	2,993.77	-613.84	-103.26	1,893,861.531	2,743,088.711	36.204826931	-107.765551481
3,200.00	20.73	189.55	3,087.30	-648.75	-109.14	1,893,826.620	2,743,082.838	36.204731037	-107.765571470
3,300.00	20.73	189.55	3,180.82	-683.66	-115.01	1,893,791.708	2,743,076.965	36.204635143	-107.765591460



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,400.00	20.73	189.55	3,274.34	-718.57	-120.88	1,893,756.797	2,743,071.092	36.204539249	-107.765611450
3,500.00	20.73	189.55	3,367.87	-753.48	-126.76	1,893,721.885	2,743,065.219	36.204443355	-107.765631439
3,578.70	20.73	189.55	3,441.47	-780.96	-131.38	1,893,694.409	2,743,060.597	36.204367884	-107.765647172
Point Lookout									
3,600.00	20.73	189.55	3,461.39	-788.39	-132.63	1,893,686.974	2,743,059.346	36.204347461	-107.765651429
3,700.00	20.73	189.55	3,554.91	-823.31	-138.50	1,893,652.062	2,743,053.473	36.204251567	-107.765671418
3,738.82	20.73	189.55	3,591.22	-836.86	-140.78	1,893,638.510	2,743,051.193	36.204214341	-107.765679178
Mancos									
3,800.00	20.73	189.55	3,648.44	-858.22	-144.37	1,893,617.151	2,743,047.600	36.204155673	-107.765691408
3,900.00	20.73	189.55	3,741.96	-893.13	-150.25	1,893,582.239	2,743,041.727	36.204059779	-107.765711397
4,000.00	20.73	189.55	3,835.49	-928.04	-156.12	1,893,547.328	2,743,035.854	36.203963885	-107.765731387
4,084.67	20.73	189.55	3,914.67	-957.60	-161.09	1,893,517.768	2,743,030.881	36.203882689	-107.765748312
MNCS_A									
4,100.00	20.73	189.55	3,929.01	-962.95	-161.99	1,893,512.416	2,743,029.981	36.203867991	-107.765751376
4,146.30	20.73	189.55	3,972.31	-979.12	-164.71	1,893,496.254	2,743,027.262	36.203823595	-107.765760631
Begin 10°/100' build/turn									
4,150.00	20.53	190.43	3,975.77	-980.40	-164.94	1,893,494.968	2,743,027.036	36.203820065	-107.765761401
4,192.17	18.61	201.66	4,015.52	-993.93	-168.76	1,893,481.437	2,743,023.211	36.203782899	-107.765774395
MNCS_B									
4,200.00	18.33	203.97	4,022.95	-996.22	-169.72	1,893,479.150	2,743,022.250	36.203776620	-107.765777660
4,250.00	17.29	220.02	4,070.58	-1,009.10	-177.70	1,893,466.268	2,743,014.273	36.203741246	-107.765804729
4,283.41	17.35	231.25	4,102.49	-1,016.02	-184.78	1,893,459.345	2,743,007.192	36.203722242	-107.765828747
MNCS_C									
4,300.00	17.61	236.71	4,118.31	-1,018.95	-188.81	1,893,456.419	2,743,003.165	36.203714212	-107.765842404
4,326.49	18.33	244.98	4,143.51	-1,022.91	-195.94	1,893,452.457	2,742,996.039	36.203703342	-107.765866567
MNCS_Cms									
4,350.00	19.24	251.72	4,165.77	-1,025.69	-202.96	1,893,449.679	2,742,989.010	36.203695723	-107.765890397
4,400.00	21.87	263.87	4,212.60	-1,029.27	-220.06	1,893,446.099	2,742,971.917	36.203685921	-107.765948343
4,450.00	25.20	273.24	4,258.45	-1,029.66	-239.96	1,893,445.706	2,742,952.016	36.203684879	-107.766015800
4,463.64	26.20	275.39	4,270.75	-1,029.22	-245.86	1,893,446.153	2,742,946.117	36.203686118	-107.766035792
MNCS_D									
4,500.00	28.99	280.43	4,302.97	-1,026.87	-262.52	1,893,448.503	2,742,929.457	36.203692605	-107.766092257
4,550.00	33.07	286.04	4,345.81	-1,020.90	-287.56	1,893,454.469	2,742,904.413	36.203709042	-107.766177130
4,600.00	37.36	290.51	4,386.66	-1,011.81	-314.90	1,893,463.558	2,742,877.075	36.203734063	-107.766269773
4,629.04	39.92	292.72	4,409.34	-1,005.12	-331.75	1,893,470.245	2,742,860.224	36.203752464	-107.766326874
MNCS_E									
4,650.00	41.78	294.17	4,425.20	-999.67	-344.33	1,893,475.701	2,742,847.650	36.203767478	-107.766369483
4,700.00	46.31	297.24	4,461.13	-984.56	-375.61	1,893,490.807	2,742,816.362	36.203809033	-107.766475499
4,708.17	47.05	297.70	4,466.74	-981.82	-380.89	1,893,493.549	2,742,811.089	36.203816576	-107.766493367
MNCS_F									
4,750.00	50.90	299.88	4,494.19	-966.61	-408.53	1,893,508.759	2,742,783.449	36.203858412	-107.766587016
4,800.00	55.54	302.20	4,524.12	-945.95	-442.81	1,893,529.422	2,742,749.163	36.203915239	-107.766703184
4,843.71	59.63	304.02	4,547.55	-925.79	-473.70	1,893,549.581	2,742,718.270	36.203970676	-107.766807849
MNCS_G									
4,847.60	60.00	304.17	4,549.50	-923.90	-476.49	1,893,551.465	2,742,715.487	36.203975857	-107.766817280
Begin 60.00° tangent									
4,907.60	60.00	304.17	4,579.50	-894.72	-519.48	1,893,580.649	2,742,672.495	36.204056110	-107.766962934
Begin 10°/100' build/turn									
4,923.06	61.44	304.81	4,587.06	-887.08	-530.60	1,893,588.289	2,742,661.376	36.204077118	-107.767000607
MNCS_H									
4,950.00	63.96	305.88	4,599.42	-873.23	-550.12	1,893,602.136	2,742,641.853	36.204115194	-107.767066749
5,000.00	68.66	307.74	4,619.50	-845.80	-586.76	1,893,629.571	2,742,605.214	36.204190631	-107.767190875



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,043.65	72.78	309.28	4,633.91	-820.14	-618.99	1,893,655.225	2,742,572.987	36.204261165	-107.767300049
MNCS_I									
5,050.00	73.38	309.50	4,635.76	-816.29	-623.68	1,893,659.081	2,742,568.291	36.204271766	-107.767315959
5,100.00	78.11	311.16	4,648.06	-784.93	-660.61	1,893,690.440	2,742,531.365	36.204357981	-107.767441049
5,150.00	82.85	312.78	4,656.33	-751.96	-697.26	1,893,723.410	2,742,494.717	36.204448621	-107.767565194
5,200.00	87.60	314.35	4,660.49	-717.63	-733.35	1,893,757.739	2,742,458.626	36.204542995	-107.767687449
5,220.68	89.56	315.00	4,661.00	-703.10	-748.05	1,893,772.273	2,742,443.928	36.204582948	-107.767737237
Begin 89.56° lateral									
5,300.00	89.56	315.00	4,661.61	-647.01	-804.13	1,893,828.362	2,742,387.842	36.204737133	-107.767927218
5,400.00	89.56	315.00	4,662.37	-576.30	-874.84	1,893,899.072	2,742,317.135	36.204931511	-107.768166725
5,500.00	89.56	315.00	4,663.13	-505.59	-945.55	1,893,969.782	2,742,246.428	36.205125888	-107.768406232
5,600.00	89.56	315.00	4,663.89	-434.88	-1,016.26	1,894,040.492	2,742,175.721	36.205320265	-107.768645741
5,700.00	89.56	315.00	4,664.66	-364.17	-1,086.96	1,894,111.201	2,742,105.014	36.205514642	-107.768885252
5,800.00	89.56	315.00	4,665.42	-293.46	-1,157.67	1,894,181.911	2,742,034.307	36.205709018	-107.769124763
5,900.00	89.56	315.00	4,666.18	-222.75	-1,228.38	1,894,252.621	2,741,963.600	36.205903393	-107.769364275
6,000.00	89.56	315.00	4,666.94	-152.04	-1,299.08	1,894,323.331	2,741,892.892	36.206097768	-107.769603789
6,100.00	89.56	315.00	4,667.71	-81.33	-1,369.79	1,894,394.041	2,741,822.185	36.206292143	-107.769843304
6,200.00	89.56	315.00	4,668.47	-10.62	-1,440.50	1,894,464.751	2,741,751.478	36.206486517	-107.770082820
6,300.00	89.56	315.00	4,669.23	60.09	-1,511.21	1,894,535.461	2,741,680.771	36.206680891	-107.770322338
6,400.00	89.56	315.00	4,669.99	130.80	-1,581.91	1,894,606.171	2,741,610.064	36.206875264	-107.770561856
6,500.00	89.56	315.00	4,670.75	201.51	-1,652.62	1,894,676.881	2,741,539.357	36.207069636	-107.770801376
6,600.00	89.56	315.00	4,671.52	272.22	-1,723.33	1,894,747.591	2,741,468.650	36.207264008	-107.771040897
6,700.00	89.56	315.00	4,672.28	342.93	-1,794.03	1,894,818.301	2,741,397.943	36.207458380	-107.771280419
6,800.00	89.56	315.00	4,673.04	413.64	-1,864.74	1,894,889.011	2,741,327.236	36.207652751	-107.771519942
6,900.00	89.56	315.00	4,673.80	484.35	-1,935.45	1,894,959.721	2,741,256.529	36.207847122	-107.771759466
7,000.00	89.56	315.00	4,674.57	555.06	-2,006.16	1,895,030.431	2,741,185.822	36.208041492	-107.771998992
7,100.00	89.56	315.00	4,675.33	625.77	-2,076.86	1,895,101.141	2,741,115.115	36.208235862	-107.772238519
7,200.00	89.56	315.00	4,676.09	696.48	-2,147.57	1,895,171.851	2,741,044.408	36.208430231	-107.772478046
7,300.00	89.56	315.00	4,676.85	767.19	-2,218.28	1,895,242.560	2,740,973.701	36.208624600	-107.772717576
7,400.00	89.56	315.00	4,677.62	837.91	-2,288.98	1,895,313.270	2,740,902.994	36.208818968	-107.772957106
7,500.00	89.56	315.00	4,678.38	908.62	-2,359.69	1,895,383.980	2,740,832.287	36.209013336	-107.773196637
7,600.00	89.56	315.00	4,679.14	979.33	-2,430.40	1,895,454.690	2,740,761.580	36.209207703	-107.773436170
7,700.00	89.56	315.00	4,679.90	1,050.04	-2,501.11	1,895,525.400	2,740,690.873	36.209402070	-107.773675704
7,800.00	89.56	315.00	4,680.66	1,120.75	-2,571.81	1,895,596.110	2,740,620.166	36.209596436	-107.773915239
7,900.00	89.56	315.00	4,681.43	1,191.46	-2,642.52	1,895,666.820	2,740,549.459	36.209790802	-107.774154775
8,000.00	89.56	315.00	4,682.19	1,262.17	-2,713.23	1,895,737.530	2,740,478.752	36.209985168	-107.774394313
8,100.00	89.56	315.00	4,682.95	1,332.88	-2,783.93	1,895,808.240	2,740,408.045	36.210179532	-107.774633851
8,200.00	89.56	315.00	4,683.71	1,403.59	-2,854.64	1,895,878.950	2,740,337.338	36.210373897	-107.774873391
8,300.00	89.56	315.00	4,684.48	1,474.30	-2,925.35	1,895,949.660	2,740,266.631	36.210568261	-107.775112932
8,400.00	89.56	315.00	4,685.24	1,545.01	-2,996.06	1,896,020.370	2,740,195.924	36.210762624	-107.775352474
8,500.00	89.56	315.00	4,686.00	1,615.72	-3,066.76	1,896,091.080	2,740,125.217	36.210956987	-107.775592018
8,600.00	89.56	315.00	4,686.76	1,686.43	-3,137.47	1,896,161.790	2,740,054.510	36.211151350	-107.775831562
8,700.00	89.56	315.00	4,687.53	1,757.14	-3,208.18	1,896,232.500	2,739,983.803	36.211345712	-107.776071108
8,800.00	89.56	315.00	4,688.29	1,827.85	-3,278.88	1,896,303.210	2,739,913.096	36.211540073	-107.776310655
8,900.00	89.56	315.00	4,689.05	1,898.56	-3,349.59	1,896,373.920	2,739,842.389	36.211734434	-107.776550203
9,000.00	89.56	315.00	4,689.81	1,969.27	-3,420.30	1,896,444.629	2,739,771.682	36.211928795	-107.776789752
9,100.00	89.56	315.00	4,690.58	2,039.98	-3,491.01	1,896,515.339	2,739,700.975	36.212123155	-107.777029303
9,200.00	89.56	315.00	4,691.34	2,110.69	-3,561.71	1,896,586.049	2,739,630.268	36.212317514	-107.777268854
9,300.00	89.56	315.00	4,692.10	2,181.40	-3,632.42	1,896,656.759	2,739,559.561	36.212511873	-107.777508407
9,400.00	89.56	315.00	4,692.86	2,252.11	-3,703.13	1,896,727.469	2,739,488.854	36.212706232	-107.777747961
9,500.00	89.56	315.00	4,693.62	2,322.82	-3,773.84	1,896,798.179	2,739,418.147	36.212900590	-107.777987516
9,600.00	89.56	315.00	4,694.39	2,393.53	-3,844.54	1,896,868.889	2,739,347.440	36.213094947	-107.778227073
9,700.00	89.56	315.00	4,695.15	2,464.24	-3,915.25	1,896,939.599	2,739,276.733	36.213289305	-107.778466630
9,800.00	89.56	315.00	4,695.91	2,534.95	-3,985.96	1,897,010.309	2,739,206.026	36.213483661	-107.778706189



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well W Lybrook Unit No. 761H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,900.00	89.56	315.00	4,696.67	2,605.66	-4,056.66	1,897,081.019	2,739,135.319	36.213678017	-107.778945749	
10,000.00	89.56	315.00	4,697.44	2,676.37	-4,127.37	1,897,151.729	2,739,064.612	36.213872373	-107.779185310	
10,100.00	89.56	315.00	4,698.20	2,747.08	-4,198.08	1,897,222.439	2,738,993.905	36.214066728	-107.779424872	
10,200.00	89.56	315.00	4,698.96	2,817.79	-4,268.79	1,897,293.149	2,738,923.198	36.214261083	-107.779664436	
10,300.00	89.56	315.00	4,699.72	2,888.50	-4,339.49	1,897,363.859	2,738,852.491	36.214455437	-107.779904001	
10,400.00	89.56	315.00	4,700.49	2,959.21	-4,410.20	1,897,434.569	2,738,781.784	36.214649791	-107.780143567	
10,500.00	89.56	315.00	4,701.25	3,029.92	-4,480.91	1,897,505.279	2,738,711.077	36.214844144	-107.780383134	
10,600.00	89.56	315.00	4,702.01	3,100.63	-4,551.61	1,897,575.988	2,738,640.370	36.215038497	-107.780622702	
10,700.00	89.56	315.00	4,702.77	3,171.34	-4,622.32	1,897,646.698	2,738,569.663	36.215232849	-107.780862271	
10,800.00	89.56	315.00	4,703.53	3,242.05	-4,693.03	1,897,717.408	2,738,498.956	36.215427201	-107.781101842	
10,900.00	89.56	315.00	4,704.30	3,312.76	-4,763.74	1,897,788.118	2,738,428.249	36.215621552	-107.781341414	
11,000.00	89.56	315.00	4,705.06	3,383.47	-4,834.44	1,897,858.828	2,738,357.542	36.215815903	-107.781580987	
11,100.00	89.56	315.00	4,705.82	3,454.18	-4,905.15	1,897,929.538	2,738,286.835	36.216010253	-107.781820561	
11,200.00	89.56	315.00	4,706.58	3,524.89	-4,975.86	1,898,000.248	2,738,216.128	36.216204603	-107.782060136	
11,300.00	89.56	315.00	4,707.35	3,595.60	-5,046.56	1,898,070.958	2,738,145.421	36.216398953	-107.782299713	
11,400.00	89.56	315.00	4,708.11	3,666.31	-5,117.27	1,898,141.668	2,738,074.714	36.216593301	-107.782539290	
11,500.00	89.56	315.00	4,708.87	3,737.02	-5,187.98	1,898,212.378	2,738,004.006	36.216787650	-107.782778869	
11,600.00	89.56	315.00	4,709.63	3,807.73	-5,258.69	1,898,283.088	2,737,933.299	36.216981998	-107.783018449	
11,700.00	89.56	315.00	4,710.40	3,878.44	-5,329.39	1,898,353.798	2,737,862.592	36.217176345	-107.783258031	
11,800.00	89.56	315.00	4,711.16	3,949.15	-5,400.10	1,898,424.508	2,737,791.885	36.217370692	-107.783497613	
11,900.00	89.56	315.00	4,711.92	4,019.86	-5,470.81	1,898,495.218	2,737,721.178	36.217565038	-107.783737197	
12,000.00	89.56	315.00	4,712.68	4,090.57	-5,541.51	1,898,565.928	2,737,650.471	36.217759384	-107.783976782	
12,100.00	89.56	315.00	4,713.44	4,161.28	-5,612.22	1,898,636.638	2,737,579.764	36.217953730	-107.784216368	
12,200.00	89.56	315.00	4,714.21	4,231.99	-5,682.93	1,898,707.348	2,737,509.057	36.218148075	-107.784455955	
12,300.00	89.56	315.00	4,714.97	4,302.70	-5,753.64	1,898,778.057	2,737,438.350	36.218342419	-107.784695543	
12,400.00	89.56	315.00	4,715.73	4,373.41	-5,824.34	1,898,848.767	2,737,367.643	36.218536763	-107.784935133	
12,500.00	89.56	315.00	4,716.49	4,444.12	-5,895.05	1,898,919.477	2,737,296.936	36.218731107	-107.785174723	
12,600.00	89.56	315.00	4,717.26	4,514.83	-5,965.76	1,898,990.187	2,737,226.229	36.218925450	-107.785414315	
12,697.53	89.56	315.00	4,718.00	4,583.80	-6,034.72	1,899,059.154	2,737,157.266	36.219115000	-107.785648000	
PBHL/TD 12697.53 MD 4718.00 TVD										

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
W Lybrook 761 FTP 206	0.00	0.00	4,661.00	-703.08	-747.98	1,893,772.292	2,742,443.998	36.204583000	-107.767737000
- plan misses target center by 0.06ft at 5220.64ft MD (4661.00 TVD, -703.12 N, -748.02 E)									
- Point									
W Lybrook 761 LTP 234	0.00	0.00	4,718.00	4,583.80	-6,034.72	1,899,059.154	2,737,157.266	36.219115000	-107.785648000
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	13 3/8" Casing	13-5/8	17-1/2	
2,646.88	2,570.00	9 5/8" Casing	9-5/8	12-1/4	



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Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6747+28 @ 6775.00ft (Ensign 773)
Site:	W Lybrook Unit	North Reference:	Grid
Well:	W Lybrook Unit No. 761H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
335.00	335.00	Ojo Alamo		0.440	315.00
440.00	440.00	Kirtland		0.440	315.00
645.00	645.00	Fruitland		0.440	315.00
1,035.00	1,035.00	Pictured Cliffs		0.440	315.00
1,155.14	1,154.97	Lewis		0.440	315.00
1,418.13	1,414.80	Chacra_A		0.440	315.00
2,521.93	2,453.14	Cliff House_Basal		0.440	315.00
2,537.94	2,468.11	Menefee		0.440	315.00
3,578.70	3,441.47	Point Lookout		0.440	315.00
3,738.82	3,591.22	Mancos		0.440	315.00
4,084.67	3,914.67	MNCS_A		0.440	315.00
4,192.17	4,015.52	MNCS_B		0.440	315.00
4,283.41	4,102.49	MNCS_C		0.440	315.00
4,326.49	4,143.51	MNCS_Cms		0.440	315.00
4,463.64	4,270.75	MNCS_D		0.440	315.00
4,629.04	4,409.34	MNCS_E		0.440	315.00
4,708.17	4,466.74	MNCS_F		0.440	315.00
4,843.71	4,547.55	MNCS_G		0.440	315.00
4,923.06	4,587.06	MNCS_H		0.440	315.00
5,043.65	4,633.91	MNCS_I		0.440	315.00

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,691.12	1,676.13	-121.97	-20.52	Begin 20.73° tangent	
4,146.30	3,972.31	-979.12	-164.71	Begin 10°/100' build/turn	
4,847.60	4,549.50	-923.90	-476.49	Begin 60.00° tangent	
4,907.60	4,579.50	-894.72	-519.48	Begin 10°/100' build/turn	
5,220.68	4,661.00	-703.10	-748.05	Begin 89.56° lateral	
12,697.53	4,718.00	4,583.80	-6,034.72	PBHL/TD 12697.53 MD 4718.00 TVD	

Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R09W / SEC 23 / SWSW / 36.206513 / -107.7652	County or Parish/State: SAN JUAN / NM
Well Number: 761H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: NMNM121961	Unit or CA Name:	Unit or CA Number: NMNM135216A
US Well Number: 3004538269	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Subsequent Report

Sundry ID: 2673932

Type of Submission: Subsequent Report	Type of Action: Hydraulic Fracturing
Date Sundry Submitted: 05/27/2022	Time Sundry Submitted: 03:55
Date Operation Actually Began: 03/11/2022	

Actual Procedure: 3/11/2022 thru 3/20/2022- Pre frac site set up, MIRU, Pressure test 3/21/2022 thru 3/30/2022- 24 hour Frac Ops. 32 total stages, total holes 1344, 5118'-12662' MD. Perfed w 0.31" holes with SFT-NE45B, FRP-48H, CSA-2400, Bardac 2250M, SCI-611W, SOUR-N8R & 11,744,700 lbs total proppant 4/20/2022 thru 4/21/2022 – Drilling out operations 4/22/2022 - tubing landed at 4,927' MD

SR Attachments

Actual Procedure

5_completion_W_LYBROOK_UNIT_761H_20220527155526.pdf

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Well Name: GREATER LYBROOK UNIT	Well Location: T23N / R09W / SEC 23 / SWSW / 36.206513 / -107.7652	County or Parish/State: SAN JUAN / NM
Well Number: 761H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: NMNM121961	Unit or CA Name:	Unit or CA Number: NMNM135216A
US Well Number: 3004538269	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KAYLA WHITE	Signed on: MAY 27, 2022 03:55 PM
Name: ENDURING RESOURCES LLC	
Title: Staff Engineer	
Street Address: 9446 CLERMONT ST	
City: THORNTON	State: CO
Phone: (720) 768-3575	
Email address: KWHITE@CDHCONSULT.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742	BLM POC Email Address: krennick@blm.gov
Disposition: Accepted	Disposition Date: 06/03/2022
Signature: Kenneth Rennick	

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-
0137

Expires: January 31, 2018

5. Lease Serial No.

N0-G-1312-1863

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM144419X

2. Name of Operator

Enduring Resources IV LLC

8. Lease Name and Well No.

Greater Lybrook Unit 761H

3. Address

200 Energy Court Farmington NM 87402

3a. Phone No. (Include area code)

505-636-9743

9. API Well No.

30-045-38269

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

At surface

SHL: 495' FSL & 561' FWL, Sec 23 T23N, R9W

BHL: 148' FNL & 294' FEL, Sec 21 T23N, R9W

10. Field and Pool or Exploratory

Lybrook Mancos W

11. Sec., T., R., M., on Block and

Survey or Area
Sec 23 T23N R9W

12. County or Parish
San Juan

13. State
NM

At top prod. interval reported below At total depth

14. Date Spudded

12/29/2021

15. Date T.D. Reached

2/8/2022

16. Date Completed 4/29/2022

☐ D & A

☒ Ready to Prod.

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

6775' KB

18. Total Depth: **12697' MD**
4718' TVD

19. Plug Back T.D.: **12667' MD**
4728' TVD

20. Depth Bridge Plug Set: MD
TVD

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

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

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

Directional Survey? ☐ No ☒ Yes (Submit copy)

Form 3160-4
(June 2015)

UNITED STATES

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

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8", J-55	54.5	0	360' MD		350	86.6	surface	
12-1/4"	9-5/8", J-55	36	0	2677' MD		642	226	surface	
8-1/2"	5-1/2", P-110	17	0	12782' MD		1924	603	surface	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8", 6.5#, L-80	4927'	4860'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
Rusty Gallup	4550' TVD	4636' TVD	5118' - 12662' MD	.31	1344	

26. Perforation Record

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

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
5118' - 12662' MD	32 total stages, total holes 1344. Perfed w 0.31" holes with SFT-NE45B, FRP-48H, CSA-2400, Bardac 2250M, SCI-611W, SOUR-N8R & 11,744,700 lbs total proppant

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
4/29/2022	5/2/2022	24 hr	➡	267	942	740			Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	249	1098	➡					Producing	

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

28. Disposition of Gas (Solid, used for fuel, vented, etc.) Sold

30. Summary of Porous Zones (Include Aquifers):	31. Formation (Log) Markers
Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, fl and shut-in pressures and recoveries.	

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
OJAM	335'				
KRLD	440'				
FRLD	645'				
PCCF	1035'				
CLFH	2455'				
MENF	2470'				
PNLK	3445'				
MNCS	3595'				
Mancos_Silt	4148'				
Gallup	4550'				

32. Additional remarks (include plugging procedure).

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

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

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

Name (please print) Kayla WhiteTitle Environmental EngineerSignature Kayla White

Date: 12/20/2022



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print

11/09/2022

Operator Name ENDURING RESOURCES LLC	Well Name W LYBROOK UNIT	Well Number 761H	US Well Number 3004538269
SHL SWSW Sec 23 23N 09W	County SAN JUAN	State NM	Lease Number(s) NMNM121961
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM135216A, NMNM144419X ID 21CPW03301
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name W LYBROOK UNIT	Well Pad Number 726H- 728H-729H-759H-760H- 761H	

Section 1 - General

Well Completion Report Id:	Submission Date: 05-27-2022	
BLM Office: Farmington Field Office	User: KAYLA WHITE	Title: Staff Engineer
Federal/Indian: INDIAN	Lease Number: NMNM121961	Lease Acres:
Agreement in place?: YES	Federal or Indian Agreement:	
Agreement Number:	Agreement Name:	
Keep this Well Completion Report confidential?:		
APD Operator: ENDURING RESOURCES LLC		

Section 2 - Well

Field/Pool or Exploratory:	Pool Name: LYBROOK MANCOS W	Field Name: BASIN MANCOS
Well Type: OIL WELL		
Spud Date: 12-29-2021		
Date Total Measured Depth Reached: 02-08-2022		
Drill & Abandon or Ready To Produce: READY TO		
Well Class: HORIZONTAL		

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
OJO ALAMO	SANDSTONE, SILTSTONE		6440	335	335	USEABLE WATER	
KIRTLAND	SANDSTONE, SHALE, SILTSTONE		6335	440	440	USEABLE WATER	

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 09W	Well Name W LYBROOK UNIT	Well Number 761H	US Well Number 3004538269
	County SAN JUAN	State NM	Lease Number(s) NMNM121961
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM135216A, NMNM144419X ID 21CPW03301
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name W LYBROOK UNIT	Well Pad Number 726H- 728H-729H-759H-760H- 761H	

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
FRUITLAND	SANDSTONE, SHALE, SILTSTONE		6130	645	645	NATURAL GAS, USEABLE WATER	
PICTURED CLIFFS	SANDSTONE, SILTSTONE		5740	1035	1035	NATURAL GAS, USEABLE WATER	
CLIFFHOUSE	SANDSTONE		4320	2455	2460	NATURAL GAS, USEABLE WATER	
MENEFEE	SANDSTONE, SHALE, SILTSTONE		4305	2470	2542	NATURAL GAS, USEABLE WATER	
POINT LOOKOUT	SANDSTONE, SILTSTONE		3330	3445	3573	NATURAL GAS, USEABLE WATER	
MANCOS	SHALE, SILTSTONE		3180	3595	3763	NATURAL GAS, OIL	
MANCOS	SHALE, SILTSTONE		2627	4148	4298	NATURAL GAS, OIL	
GALLUP	SANDSTONE, SHALE, SILTSTONE		2225	4550	4867	NATURAL GAS, OIL	

Completion and Completed

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM144419X	NMNM121961	NEW		POW	04-29-2022	04-29-2022	GALLUP	4550	4636	Y	.31	1344	OPEN

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 09W	Well Name W LYBROOK UNIT	Well Number 761H	US Well Number 3004538269
	County SAN JUAN	State NM	Lease Number(s) NMNM121961
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM135216A, NMNM144419X ID 21CPW03301
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name W LYBROOK UNIT	Well Pad Number 726H- 728H-729H-759H-760H- 761H	

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	N				

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1			FLows FROM WELL		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	05/02/2022	24	267	942	740	3528	64/64	249		1098

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 09W	Well Name W LYBROOK UNIT	Well Number 761H	US Well Number 3004538269
	County SAN JUAN	State NM	Lease Number(s) NMNM121961
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM135216A, NMNM144419X ID 21CPW03301
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name W LYBROOK UNIT	Well Pad Number 726H- 728H-729H-759H-760H- 761H	

Well Location

Survey Type: RECTANGULAR

Survey Number:

Datum: NAD27

Vertical Datum:

Reference Datum:

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.206513	-107.7652	6748	INDIAN	N0G13121863				495	FSL	561	FWL	23N 09W	23	SWSW	
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.206513	-107.7652	6748	INDIAN	N0G13121863				495	FSL	561	FWL	23N 09W	23	SWSW	
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.204009	-107.766784	6748	FEDERAL	NMNM57164				416	FSL	100	FWL	23N 09W	26	NWNW	
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.219038	-107.785618	6748	INDIAN	N0G14031953				258	FNL	170	FEL	23N 09W	21	NENE	
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.219336	-107.78604	6748	INDIAN	N0G14031953				148	FNL	294	FEL	23N 09W	21	NENE	

Casing, Liner and Tubing

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 09W	Well Name W LYBROOK UNIT	Well Number 761H	US Well Number 3004538269
	County SAN JUAN	State NM	Lease Number(s) NMNM121961
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM135216A, NMNM144419X ID 21CPW03301
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name W LYBROOK UNIT	Well Pad Number 726H- 728H-729H-759H-760H- 761H	

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	360	13.375	54.5	J-55		LT&C		
00	INTERMEDIATE	12.25	0	2677	9.625	36	J-55		LT&C		
00	PRODUCTION	8.5	0	12782	5.5	17	P-110		LT&C		

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield (cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE	360	3	350	1.38	0					86
00	INTERMEDIATE	2677	3	506	2.14	0	3	136	1.38	2477	226.3
00	PRODUCTION	12782	1/2	476	2.36	0	Class G	1448	2.36	3739	808.7

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		4927	4860	6	L-80		OTHER	EUE

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 09W	Well Name W LYBROOK UNIT	Well Number 761H	US Well Number 3004538269
	County SAN JUAN	State NM	Lease Number(s) NMNM121961
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM135216A, NMNM144419X ID 21CPW03301
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name W LYBROOK UNIT	Well Pad Number 726H- 728H-729H-759H-760H- 761H	

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	NO	NO	NO	YES	NO	YES

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: ENDURING RESOURCES LLC**Signed By:** KAYLA WHITE**Title:** Staff Engineer**Signed on:** 06/17/2022**Street Address:** 9446 CLERMONT ST**City:** THORNTON**State:** CO**Zip:** 80229**Phone:** (720)768-3575**Email address:** KWHITE@CDHCONSULT.COM**Field****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Extension:****Email address:****Attachments**

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 23 23N 09W	Well Name W LYBROOK UNIT	Well Number 761H	US Well Number 3004538269
	County SAN JUAN	State NM	Lease Number(s) NMNM121961
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM135216A, NMNM144419X ID 21CPW03301
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name W LYBROOK UNIT	Well Pad Number 726H- 728H-729H-759H-760H- 761H	

WLU_761H_Wellbore_Diagram_20220527154959.pdf

W_Lybrook_Unit__761H_As_Drilled_C_102_Plat_Signed_20220527155017.pdf

Enduring_W_Lybrook_Unit_761_rev0_20220527155232.pdf

List_of_Leases_WLU_761H_20220617150501.pdf

WELL NAME: W LYBROOK UNIT 761H**OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation****API Number:** 30-045-38269**AFE Number:** DV03019**ER Well Number:** NM06445.01**State:** New Mexico**County:** San Juan**Surface Elev.:** 6,748 ft ASL (GL) 6,776 ft ASL (KB)**Surface Location:** 23-23N-09W Sec-Twn- Rng 495 ft FSL 561 ft FWL**BH Location:** 21-23N-09W Sec-Twn- Rng 234 ft FNL 182 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 for 0.6 miles to fork, Left (West) for 0.7 miles to fork; Right (Northwest) for 0.2 miles onto W Lybrook Unit 726H Pad.

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,647 ft
KOP (MD)	4,146 ft
KOP (TVD)	3,972 ft
Target (TVD)	4,661 ft
Curve BUR	10 °/100 ft
POE (MD)	5,221 ft
TD (MD)	12,698 ft
Lat Len (ft)	7,477 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	2,647	9.625	36.0	J-55	LTC	0	2,647
Production	8.500	12,698	5.500	17.0	P-110	LTC	0	12,698

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	Type III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	506
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,147	136
Prod. (Lead)	Type I / II	12.4	2.360	13.4	0.2691	65%	0	599
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	3,739	1,447

COMPLETION / PRODUCTION SUMMARY:**Frac:** 35 plug-and-perf stages with 250,000 bbls slickwater fluid and 15,000,000 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	335	335
Kirtland	440	440
Fruitland	645	645
Pictured Cliffs	1,035	1,035
Lewis	1,155	1,155
Chacra	1,415	14,187
Cliff House	2,453	2,522
Menefee	2,468	2,538
Point Lookout	3,441	3,579
Mancos	3,591	3,739
Gallup (MNCS_A)	3,915	4,085
MNCS_B	4,015	4,192
MNCS_C	4,102	4,283
MNCS_Cms	4,144	4,326
MNCS_D	4,271	4,464
MNCS_E	4,409	4,629
MNCS_F	4,467	4,708
MNCS_G	4,548	4,844
MNCS_H	4,587	4,923
FTP TARGET	4,661	5,221
LTP TARGET	4,718	12,698

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 169090

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 169090
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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

CONDITIONS

Action 169090

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 169090
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	2/10/2023