Received by OCD: 9/16/2022 8:09:37 AM

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

State of New Mexico Energy, Minerals & Natural Resources

Page 1 of 33 Form C-104 Revised August 1, 2011

County

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

Section Township

Ul or lot no.

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

Submit one copy to appropriate District Office

East/West line

☐ AMENDED REPORT

I.	REQUEST FOR	ALLOWABLE AND	AUTHORIZ	ATION TO TRA	ANSPORT
----	-------------	---------------	-----------------	--------------	---------

	¹ Operator name and Address Enduring Resources IV LLC.	² OGRID Number 372286			
	200 Energy Court Farmington NM 87401	³ Reason for Filing Code/ Effective Date NW			
⁴ API Number 30-045-38189	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157		
⁷ Property Code 332891	⁸ Property Name GREATER LYBROOK UNIT		⁹ Well Number #863H		

II. 10 Surface Location

Range Lot Idn Feet from the North/South Line Feet from the

C	27	23N	9W		1201'	North	2446'	V	Vest	San Juan
•					11 Bottom	Hole Locati	on			
UL or lot no. D	Section 21	Township 23N	Range 9W	Lot Idn	Feet from the 165'	North/South I North	Feet from the 832'		West line Vest	County San Juan
12 Lse Code F		cing Method Code	D	onnection ate 2022	¹⁵ C-129 Pern	⁵ C-129 Permit Number 16 (Date	¹⁷ C-12	29 Expiration Date

III. Oil and Gas Transporters

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

IV. Well Completion Data

²¹ Spud Date 2/14/2022	-		²³ TD 13899' MD 4186' TVD	²⁴ PBTD 13794' MD 4184' TVD	²⁵ Perforations ~ 4403' - 13789' MD ~ 4051'-4184' TVD	²⁶ DHC, MC R-14051			
²⁷ Hole Siz	e	²⁸ Casing	& Tubing Size	²⁹ Depth Set	;	³⁰ Sacks Cement			
17-1/2"		13-3/8"	°,54.5#, J-55	360.76' MD		350 sx - surface			
12-1/4"	12-1/4" 9.		',36#, J-55	2535' MD		606 sx- surface			
8-1/2"	8-1/2"		,17#, P-110	13899' MD		2124 sx- surface			
8-1/2"		2-7/8"	2,6.5#, L-80	4318'		NA			

V. Well Test Data

31 Date New Oil	32 Gas Delivery Date	33 Test Date	34 Test Length	35 Tbg. Pressure	³⁶ Csg. Pressure			
8/12/2022	8/4/2022	8/4/2022	24 hr	780	1107			
³⁷ Choke Size 64/64	³⁸ Oil 70	³⁹ Water 0	⁴⁰ Gas 217		⁴¹ Test Method F			
been complied with a	at the rules of the Oil Conser and that the information give of my knowledge and belief	en above is true and	OIL CONSERVATION DIVISION					
-	Kaylor White		Approved by: PATRICIA MARTINEZ					
Printed name:			Title:					
Kayla White			PETROLEUM SPECIALIST					
Title:			Approval Date:					
Environmental Engir	neer		10/26/2023					
E-mail Address:								
kwhite@cdhconsult.	com							
Date:	Phone:							
9/2/2022	720-768-3575							



ENDURING RESOURCES IV LLC

May 19, 2022

Re: W LYBROOK UNIT 863H-30-045-38189

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 Received by OGD: 9/16/202208:09m3 384M Phone: (575) 393-6161 Fax: (575) 393-0720

N/2 NW/4, SE/4 NW/4 N/2 NW/4, SE/4 NW/4,

SE/4 SW/4, SE/4

District II 811 S. First Street, Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, Page 3 of 33 Submit one copy to Appropriate District Office

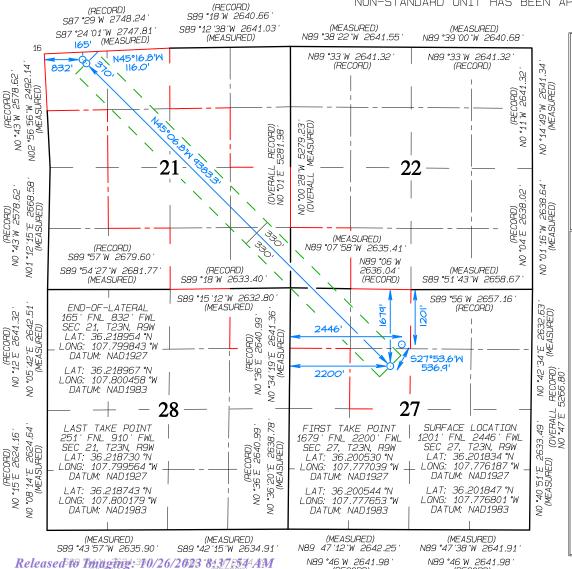
CONSERVATION DIVISION South St. Francis Drive Santa Fe, NM 87505

AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

1 A	PI Number	7		²Pool Coc	le	³Pool Name						
30-045-3	8189			98157	7	L	YBROOK MAN	COS W				
⁴Property	Code				5Property	y Name			⁶ Well Number			
3328	91			GREAT	CER LYBROC	DK UNIT				863H		
70GRID N	√o.				*Operator	Name			9 E	levation		
37228	6			EN	DURING RES	SOURCES, LLC				6641'		
¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
С	27	23N	9W		1201	NORTH	2446	WE	ST	SAN JUAN		
		1	¹ Bottoi	m Hole	Location I	f Different	From Surface	9				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
D	21	23N	9W		165	NORTH	832	WE	ST	SAN JUAN		
¹² Dedicated Acres	SE / /	SE/4 -	- Sarti	on 28	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.					
560.00	SW/4	SW/4 -	- Secti	on 22.			R-22081					
N/2 NW/4	1, SE/4	NW/4 -	- Secti	on 27.		•	•					

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



SW/4 NE/4

Section 21

(RECORD) S89°18'W 2640.66

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 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.

8/16/22

Signature Heather Huntington

Printed Name

hhuntington@enduringresources.com

F-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: MAY 4, 2022 Date of Survey: MARCH 10, 2016

Signature and Seal of Professional Surveyor



DWARDS Certificate Number 15269

Released to Thing tips: 310/26/2029 84 37 2534 AM

(RECORD)

(RECORD)

District Received by OGD: 9/16/202208:09m3 384M

Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First Street, Artesia, NM 88210

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N/2 NW/4, SE/4 NW/4, SW/4 NE/4

SE/4 SW/4, SE/4 - Section 21

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102 Revised August 1, Page 4 of 33

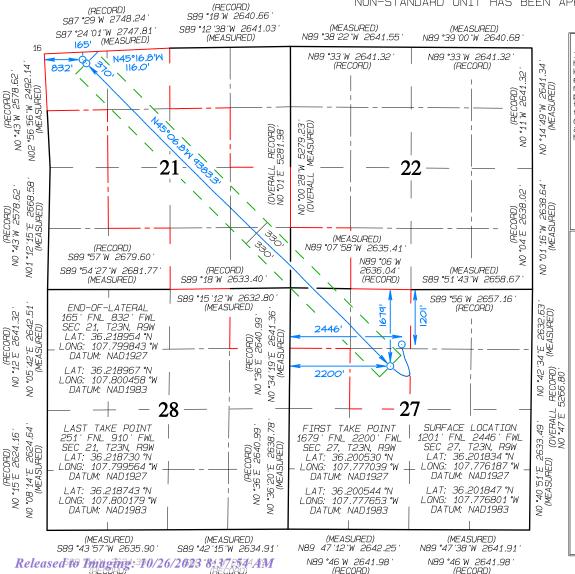
Submit one copy to Appropriate District Office

AMENDED	REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

1 A	PI Number	7		²Pool Coc	de	³Pool Name						
30-045-3	88189			98157	7	L	YBROOK MAN	COS W				
⁴ Property	Code				5Property	/ Name			⁶ We	ell Number		
33289	1			GREA7	CER LYBROC	OK UNIT				863H		
OGRID N	√o.				*Operator	Name			₉ E	levation		
37228	6			EN	DURING RES	SOURCES, LLC				6641'		
¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
С	27	23N	9W		1201	NORTH	2446	WE	ST	SAN JUAN		
		1	¹ Botto	m Hole	Location I	f Different	- -rom Surface	9		,		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
D	21	23N	9W		165	NORTH	832	WE	ST	SAN JUAN		
¹² Dedicated Acres	NE / A	NE/4 -	- Socti	on 28	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.					
560.00	SW/4	SW/4 -	- Secti	on 22.			R-22081					
N/2 NW/4	1, SE/4	NW/4 -	- Secti	on 27		•	•					

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8/16/22

Heather Huntington

Printed Name

hhuntington@enduringresources.com

E-mail Address

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DWARDS 15269

Certificate Number

(RECORD)

(RECORD)

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N/2 NW/4, SE/4 NW/4 - Section 27 N/2 NW/4, SE/4 NW/4, SW/4 NE/4

SE/4 SW/4, SE/4 - Section 21

(RECORD) S89°18'W 2640.66

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, Page 5 of 33 Submit one copy to Appropriate District Office

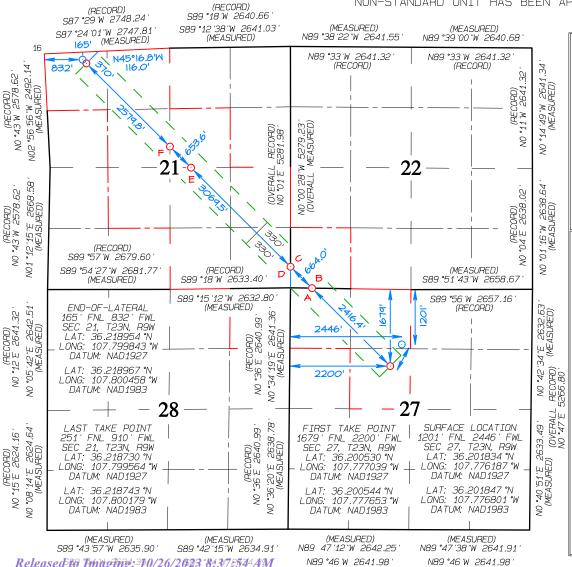
OIL CONSERVATION DIVISION South St. Francis Drive Santa Fe, NM 87505

AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-3	PI Number			²Pool Coo 98157	·-							
30-043-3	0109			30137		LIDHOUK MANGOS W						
⁴Property	Code				*Property	y Name			⁶ Well Number			
33289	1			GREAT	CER LYBROO	OK UNIT			8	863H		
OGRID N	10.				*Operator	Name			٩E	levation		
37228	6			EN	DURING RES	SOURCES, LLC				6641'		
¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
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		1	¹ Botto	m Hole	Location I	f Different f	- -rom Surface	9				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
D) 21 23N 9W 165 NORTH 832 WEST SAI							SAN JUAN				
Dedicated Acres	NE/4	NE/4 - SW/4 -	- Secti - Secti	ion 28 ion 22	¹³ Joint or Infill	¹⁴ Consolidation Code	15 Order No. R-220	81				

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Signature

8/16/22

Heather Huntington

Printed Name

hhuntington@enduringresources.com

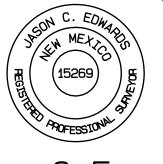
E-mail Address

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Signature and Seal of Professional Surveyor



DWARDS 15269

Certificate Number

(RECORD)

(RECORD)

Released to Thing tips: 310/26/2029 84 37 2534 AM

(A) 0' FNL 470' FWL SEC 27, T23N, R9W LAT: 36.205218°N LONG: 107.782839°W DATUM: NAD1927

LAT: 36.205231 °N LONG: 107.783453 °W DATUM: NAD1983 (B) 0' FSL 470' FWL SEC 22, T23N, R9W LAT: 36.205218°N LONG: 107.782839°W DATUM: NAD1927

LAT: 36.205231 °N LONG: 107.783453 °W DATUM: NAD1983

(C) 461' FSL 0' FWL SEC 22, T23N, R9W LAT: 36.206506°N LONG: 107.784433°W DATUM: NAD1927

LAT: 36.206519 °N LONG: 107.785047 °W DATUM: NAD1983 (D) 461' FSL 0' FEL SEC 21, T23N, R9W LAT: 36.206506°N LONG: 107.784433°W DATUM: NAD1927

LAT: 36.206519 °N LONG: 107.785047 °W DATUM: NAD1983

(E) 2656' FSL 2174' FEL SEC 21, T23N, R9W LAT: 36.212459 °N LONG: 107.791801 °W DATUM: NAD1927

LAT: 36.212472 °N LONG: 107.792416 °W DATUM: NAD 1983 (F) 2154' FNL 2637' FEL SEC 21, T23N, R9W LAT: 36.213727°N LONG: 107.793370°W DATUM: NAD1927

> LAT: 36.213740 °N LONG: 107.793985 °W DATUM: NAD1983



TVD Reference:

MD Reference:

North Reference:

Database: DB_Feb2822

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W
Site: W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole Design: rev3

Survey Calculation Method:

Local Co-ordinate Reference:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

Minimum Curvature

62.71

49.216.01313148

Project San Juan County, New Mexico NAD83 NM W

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Western Zone

System Datum: Mean Sea Level

Site W Lybrook 730 Pad (730, 763, 830, 861 & 863)

IGRF2020

 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. 863H, Surf loc: 1201 FNL 2446 FWL Section 27-T23N-09W

 Well Position
 +N/-S
 0.00 ft
 Northing:
 1,892,774.650 usft
 Latitude:
 36.201847000

+E/-W 0.00 ft Easting: 2,739,770.503 usft Longitude: -107.776801000

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)

8.74

3/8/2022

rev3 Design Audit Notes: Version: Phase: PLAN Tie On Depth: 2,453.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 314.890 0.00 0.00

Plan	Survey Tool Pro	gram	Date 3/30/2022		
	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	400.00	2,453.00	MWD surf (Original He	ole) MWD OWSG MWD - Standar	rd
2	2,453.00	13,885.15	rev3 (Original Hole)	MWD OWSG MWD - Standar	rd



Database: DB_Feb2822

Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

 Site:
 W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

lan 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
2,453.00	25.84	165.630	2,411.28	-235.45	47.30	0.00	0.00	0.00	0.00	
2,553.00	25.84	165.630	2,501.28	-277.67	58.12	0.00	0.00	0.00	0.00	
2,591.81	25.80	162.958	2,536.22	-293.94	62.69	3.00	-0.11	-6.88	-93.37	
3,434.72	25.80	162.958	3,295.13	-644.64	170.19	0.00	0.00	0.00	0.00	
4,251.62	60.00	307.153	3,988.79	-591.65	-108.55	10.00	4.19	17.65	149.20	
4,311.62	60.00	307.153	4,018.79	-560.27	-149.96	0.00	0.00	0.00	0.00	
4,615.54	89.49	314.893	4,098.00	-369.03	-367.63	10.00	9.70	2.55	15.44	
13,885.21	89.49	314.893	4,181.00	6,173.15	-6,934.19	0.00	0.00	0.00	0.00	W Lybrook 863H LTF



Database: DB_Feb2822

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

lanned Survey										
Measure Depth (ft)		clination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
C	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.79	326.990	399.99	2.31	-1.50	2.70	0.20	0.20	0.00
493	3.00	0.44	318.640	492.98	3.12	-2.09	3.68	0.39	-0.38	-8.98
584	1.00	0.88	317.240	583.98	3.89	-2.79	4.73	0.48	0.48	-1.54
	5.00	0.44	311.790	674.97	4.64	-3.53	5.77	0.49	-0.48	-5.99
766	5.00	0.53	182.060	765.97	4.45	-3.80	5.84	0.97	0.10	-142.56
857	7.00	0.35	182.320	856.97	3.75	-3.83	5.36	0.20	-0.20	0.29
948	3.00	0.66	217.300	947.96	3.06	-4.16	5.10	0.47	0.34	38.44
1,039	9.00	0.22	204.740	1,038.96	2.48	-4.55	4.98	0.49	-0.48	-13.80
1,132	2.00	0.26	210.450	1,131.96	2.14	-4.73	4.86	0.05	0.04	6.14
1,226	6.00	0.57	183.640	1,225.96	1.49	-4.87	4.50	0.38	0.33	-28.52
1,320		0.35	223.550	1,319.95	0.81	-5.10	4.18	0.40	-0.23	42.46
1,414		0.57	209.130	1,413.95	0.20	-5.52	4.05	0.26	0.23	-15.34
1,508		0.44	211.860	1,507.95	-0.52	-5.94	3.84	0.14	-0.14	2.90
1,603		2.68	160.350	1,602.91	-2.92	-5.39	1.75	2.56	2.36	-54.22
1,697	7.00	5.98	165.630	1,696.63	-9.73	-3.43	-4.44	3.53	3.51	5.62
1,791	1.00	9.93	168.530	1,789.70	-22.43	-0.60	-15.40	4.22	4.20	3.09
1,886	3.00	12.30	169.840	1,882.91	-40.42	2.81	-30.52	2.51	2.49	1.38
1,981		14.24	168.440	1,975.37	-61.83	6.94	-48.55	2.07	2.04	-1.47
2,075		17.89	166.420	2,065.69	-87.20	12.65	-70.50	3.93	3.88	-2.15
2,170	0.00	22.02	166.680	2,154.97	-118.72	20.18	-98.09	4.35	4.35	0.27
2,264		25.40	167.300	2,241.02	-155.55	28.67	-130.09	3.61	3.60	0.66
2,358		25.84	167.300	2,325.78	-195.20	37.61	-164.41	0.47	0.47	0.00
2,453		25.84	165.630	2,411.28	-235.45	47.30	-199.68	0.77	0.00	-1.76
Survey	@ 2453.0	00 MD 2411.2	28 TVD							
2,500		25.84	165.630	2,453.58	-255.30	52.38	-217.29	0.00	0.00	0.00
2,553	3.00	25.84	165.630	2,501.28	-277.67	58.12	-237.14	0.00	0.00	0.00
KOP Be	egin 3°/10	0' build/turn	1							
2,591	1.81	25.80	162.958	2,536.22	-293.94	62.69	-251.86	3.00	-0.11	-6.88
Begin 2	25.796° ta	ngent								
2,600	0.00	25.80	162.958	2,543.59	-297.35	63.74	-255.01	0.00	0.00	0.00
2,700	0.00	25.80	162.958	2,633.63	-338.96	76.49	-293.41	0.00	0.00	0.00
2,800	0.00	25.80	162.958	2,723.66	-380.56	89.24	-331.81	0.00	0.00	0.00
2,900	0.00	25.80	162.958	2,813.70	-422.17	102.00	-370.20	0.00	0.00	0.00
3,000		25.80	162.958	2,903.73	-463.77	114.75	-408.60	0.00	0.00	0.00
3,100		25.80	162.958	2,993.77	-505.38	127.50	-447.00	0.00	0.00	0.00
3,200		25.80	162.958	3,083.80	-546.98	140.26	-485.40	0.00	0.00	0.00
3,300		25.80	162.958	3,173.84	-588.59	153.01	-523.80	0.00	0.00	0.00
3,400	0.00	25.80	162.958	3,263.87	-630.20	165.76	-562.20	0.00	0.00	0.00
3,411	1.25	25.80	162.958	3,274.00	-634.88	167.20	-566.52	0.00	0.00	0.00
Point L	.ookout									
3,434	1.72	25.80	162.958	3,295.13	-644.64	170.19	-575.53	0.00	0.00	0.00
Begin 1	10°/100' b	uild/turn								
3,450	0.00	24.49	164.845	3,308.96	-650.88	171.99	-581.21	10.00	-8.51	12.35
3,500	0.00	20.44	172.552	3,355.17	-669.55	175.84	-597.11	10.00	-8.10	15.41
3,550	0.00	16.88	183.587	3,402.55	-685.47	176.52	-608.82	10.00	-7.12	22.07
3,580		15.10	192.643	3,432.00	-693.81	175.36	-613.89	10.00	-5.83	29.56
Mancos	s									
3,600		14.19	199.414	3,450.74	-698.51	174.02	-616.26	10.00	-4.69	34.97
3,650		12.91	220.175	3,499.37	-708.56	168.38	-619.36	10.00	-2.55	41.52
3,700		13.47	242.084	3,548.08	-715.56	159.62	-618.09	10.00	1.10	43.82
*										
3,750).00	15.65	260.086	3,596.50	-719.45	147.83	-612.48	10.00	4.38	36.00



Database: DB_Feb2822

Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

 Site:
 W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

Planne	d 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)
	3,800.00	18.92	272.911	3,644.25	-720.20	133.08	-602.56	10.00	6.53	25.65
	3,850.00	22.80	281.802	3,690.98	-717.81 -712.20	115.49	-588.41	10.00	7.77	17.78
	3,900.00 3,930.33	27.04 29.72	288.130 291.129	3,736.32 3,763.00	-712.28 -707.43	95.19 81.63	-570.13 -557.10	10.00 10.00	8.47 8.83	12.66 9.89
	MNCS_A	29.12	291.129	3,703.00	-707.43	01.03	-337.10	10.00	0.03	9.09
	3,950.00	31.48	292.822	3,779.93	-703.68	72.34	-547.87	10.00	8.99	8.61
	4,000.00	36.06	296.444	3,821.49	-692.05	47.11	-547.67 -521.79	10.00	9.16	7.24
	4,050.00	40.73	299.342	3,860.67	-677.50	19.70	-492.10	10.00	9.33	5.80
	4,054.41	41.14	299.571	3,864.00	-676.08	17.18	-489.31	10.00	9.40	5.19
	MNCS_B		200.01	0,0000	0.0.00				0.10	0.10
	4,100.00	45.45	301.735	3,897.17	-660.12	-9.69	-459.01	10.00	9.46	4.75
	4,150.00	50.22	303.767	3,930.73	-640.06	-40.84	-422.79	10.00	9.54	4.06
	4,187.84	53.85	305.125	3,954.00	-623.18	-65.43	-393.45	10.00	9.59	3.59
	MNCS_C	00.00	550.120	0,004.00	020.10	00.40	550.40	10.00	0.00	0.00
	4,200.00	55.02	305.534	3,961.07	-617.46	-73.50	-383.70	10.00	9.62	3.37
	4,251.62	60.00	307.153	3,988.79	-591.65	-108.55	-340.66	10.00	9.64	3.14
	Begin 60.00°	tangent								
	4,262.04	60.00	307.153	3,994.00	-586.20	-115.74	-331.71	0.00	0.00	0.00
	MNCS_Cms									
l	4,300.00	60.00	307.153	4,012.98	-566.35	-141.94	-299.14	0.00	0.00	0.00
l	4,311.62	60.00	307.153	4,018.79	-560.27	-149.96	-289.17	0.00	0.00	0.00
	Begin 10°/10	0' build/turn								
	4,350.00	63.70	308.292	4,036.90	-539.56	-176.72	-255.59	10.00	9.65	2.97
	4,400.00	68.54	309.672	4,057.13	-510.80	-212.24	-210.13	10.00	9.68	2.76
	4,450.00	73.39	310.963	4,073.43	-480.22	-248.27	-163.03	10.00	9.70	2.58
	4,500.00	78.25	312.190	4,085.67	-448.06	-284.52	-114.65	10.00	9.71	2.45
	4,550.00	83.11	313.374	4,093.77	-414.55	-320.72	-65.36	10.00	9.72	2.37
	4,600.00	87.97	314.535	4,097.65	-379.96	-356.59	-15.53	10.00	9.73	2.32
	4,615.54	89.49	314.893	4,098.00	-369.03	-367.63	0.01	10.00	9.73	2.31
	Begin 89.487	o lateral								
	4,700.00	89.49	314.893	4,098.76	-309.43	-427.46	84.46	0.00	0.00	0.00
	4,800.00	89.49	314.893	4,099.65	-238.85	-498.30	184.46	0.00	0.00	0.00
	4,900.00	89.49	314.893	4,100.55	-168.27	-569.14	284.45	0.00	0.00	0.00
	5,000.00	89.49	314.893	4,101.44	-97.70	-639.98	384.45	0.00	0.00	0.00
	5,100.00	89.49	314.893	4,102.34	-27.12	-710.82	484.45	0.00	0.00	0.00
	5,200.00	89.49	314.893	4,103.23	43.46	-781.65	584.44	0.00	0.00	0.00
	5,300.00	89.49	314.893	4,104.13	114.03	-852.49	684.44	0.00	0.00	0.00
	5,400.00	89.49	314.893	4,105.02	184.61	-923.33	784.43	0.00	0.00	0.00
	5,500.00	89.49	314.893	4,105.92	255.18	-994.17	884.43	0.00	0.00	0.00
	5,600.00	89.49	314.893	4,106.81	325.76	-1,065.01	984.43	0.00	0.00	0.00
	5,700.00	89.49	314.893	4,107.71	396.34	-1,135.85	1,084.42	0.00	0.00	0.00
	5,800.00	89.49	314.893	4,108.60	466.91	-1,206.69	1,184.42	0.00	0.00	0.00
	5,900.00	89.49	314.893	4,109.50	537.49	-1,277.53	1,284.41	0.00	0.00	0.00
	6,000.00	89.49	314.893	4,110.40	608.07	-1,348.37	1,384.41	0.00	0.00	0.00
	6,100.00 6,200.00	89.49 89.49	314.893 314.893	4,111.29 4,112.19	678.64 749.22	-1,419.21 -1,490.05	1,484.41 1,584.40	0.00 0.00	0.00 0.00	0.00 0.00
	6,300.00 6,400.00	89.49 89.49	314.893 314.893	4,113.08 4,113.98	819.79 890.37	-1,560.89 -1,631.73	1,684.40 1,784.39	0.00 0.00	0.00 0.00	0.00 0.00
	6,500.00	89.49	314.893	4,113.96 4,114.87	960.95	-1,031.73 -1,702.56	1,764.39	0.00	0.00	0.00
	6,600.00	89.49	314.893	4,115.77	1,031.52	-1,773.40	1,004.39	0.00	0.00	0.00
	6,700.00	89.49	314.893	4,116.66	1,102.10	-1,773.40	2,084.38	0.00	0.00	0.00
	6,800.00	89.49	314.893	4,117.56	1,172.68	-1,915.08	2,184.38	0.00	0.00	0.00
1	0,000.00	09.49	314.083	4,117.50	1,172.00	-1,510.00	2,104.30	0.00	0.00	0.00



Database: DB_Feb2822

Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

 Site:
 W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

ooigii.									
Planned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
6,900.00	89.49	314.893	4,118.45	1,243.25	-1,985.92	2,284.37	0.00	0.00	0.00
7,000.00	89.49	314.893	4,119.35	1,313.83	-2,056.76	2,384.37	0.00 0.00	0.00	0.00
7,100.00	89.49	314.893	4,120.24	1,384.40	-2,127.60	2,484.37	0.00	0.00	0.00
7,200.00	89.49	314.893	4,121.14	1,454.98	-2,198.44	2,584.36	0.00	0.00	0.00
7,300.00	89.49	314.893	4,122.04	1,525.56	-2,269.28	2,684.36	0.00	0.00	0.00
7,400.00	89.49	314.893	4,122.93	1,596.13	-2,340.12	2,784.35	0.00	0.00	0.00
7,500.00	89.49	314.893	4,123.83	1,666.71	-2,410.96	2,884.35	0.00	0.00	0.00
7,600.00	89.49	314.893	4,124.72	1,737.29	-2,481.80	2,984.35	0.00	0.00	0.00
7,700.00	89.49	314.893	4,125.62	1,807.86	-2,552.63	3,084.34	0.00	0.00	0.00
7,800.00	89.49	314.893	4,126.51	1,878.44	-2,623.47	3,184.34	0.00	0.00	0.00
7,900.00	89.49	314.893	4,127.41	1,949.01	-2,694.31	3,284.33	0.00	0.00	0.00
8,000.00	89.49	314.893	4,128.30	2,019.59	-2,765.15	3,384.33	0.00	0.00	0.00
8,100.00	89.49	314.893	4,129.20	2,090.17	-2,835.99	3,484.33	0.00	0.00	0.00
8,200.00	89.49	314.893	4,130.09	2,160.74	-2,906.83	3,584.32	0.00	0.00	0.00
			,						
8,300.00	89.49	314.893	4,130.99	2,231.32	-2,977.67	3,684.32	0.00	0.00	0.00
8,400.00	89.49	314.893	4,131.89	2,301.90	-3,048.51	3,784.31	0.00	0.00	0.00
8,500.00	89.49	314.893	4,132.78	2,372.47	-3,119.35	3,884.31	0.00	0.00	0.00
8,600.00	89.49	314.893	4,133.68	2,443.05	-3,190.19	3,984.31	0.00	0.00	0.00
8,700.00	89.49	314.893	4,134.57	2,513.62	-3,261.03	4,084.30	0.00	0.00	0.00
0,700.00	09.49	314.093				,			
8,800.00	89.49	314.893	4,135.47	2,584.20	-3,331.87	4,184.30	0.00	0.00	0.00
8,900.00	89.49	314.893	4,136.36	2,654.78	-3,402.71	4,284.29	0.00	0.00	0.00
9,000.00	89.49	314.893	4,137.26	2,725.35	-3,473.54	4,384.29	0.00	0.00	0.00
9,100.00	89.49	314.893	4,138.15	2,795.93	-3,544.38	4,484.29	0.00	0.00	0.00
9,200.00	89.49	314.893	4,139.05	2,866.51	-3,615.22	4,584.28	0.00	0.00	0.00
9,200.00	09.49	314.093	4,139.03	2,000.51	-3,013.22	4,304.20	0.00	0.00	0.00
9,300.00	89.49	314.893	4,139.94	2,937.08	-3,686.06	4,684.28	0.00	0.00	0.00
9,400.00	89.49	314.893	4,140.84	3,007.66	-3,756.90	4,784.27	0.00	0.00	0.00
9,500.00	89.49	314.893	4,141.73	3,078.23	-3,827.74	4,884.27	0.00	0.00	0.00
9,600.00	89.49	314.893	4,142.63	3,148.81	-3,898.58	4,984.27	0.00	0.00	0.00
								0.00	0.00
9,700.00	89.49	314.893	4,143.53	3,219.39	-3,969.42	5,084.26	0.00	0.00	0.00
9,800.00	89.49	314.893	4,144.42	3,289.96	-4,040.26	5,184.26	0.00	0.00	0.00
9,900.00	89.49	314.893	4,145.32	3,360.54	-4,111.10	5,284.25	0.00	0.00	0.00
10,000.00	89.49	314.893	4,146.21	3,431.12	-4,181.94	5,384.25	0.00	0.00	0.00
10,100.00	89.49	314.893	4,147.11	3,501.69	-4,252.78	5,484.25	0.00	0.00	0.00
10,200.00	89.49	314.893	4,148.00	3,572.27	-4,323.61	5,584.24	0.00	0.00	0.00
10,200.00		314.093	4,140.00			3,304.24			
10,300.00	89.49	314.893	4,148.90	3,642.84	-4,394.45	5,684.24	0.00	0.00	0.00
10,400.00	89.49	314.893	4,149.79	3,713.42	-4,465.29	5,784.23	0.00	0.00	0.00
10,500.00	89.49	314.893	4,150.69	3,784.00	-4,536.13	5,884.23	0.00	0.00	0.00
10,600.00	89.49	314.893	4,151.58	3,854.57	-4,606.97	5,984.23	0.00	0.00	0.00
10,700.00	89.49	314.893	4,152.48	3,925.15	-4,677.81	6,084.22	0.00	0.00	0.00
10,800.00	89.49	314.893	4,153.37	3,995.73	-4,748.65	6,184.22	0.00	0.00	0.00
10,900.00	89.49	314.893	4,154.27	4,066.30	-4,819.49	6,284.21	0.00	0.00	0.00
11,000.00	89.49	314.893	4,155.17	4,136.88	-4,890.33	6,384.21	0.00	0.00	0.00
11,100.00	89.49	314.893	4,156.06	4,207.45	-4,961.17	6,484.21	0.00	0.00	0.00
11,200.00	89.49	314.893	4,156.96	4,278.03	-5,032.01	6,584.20	0.00	0.00	0.00
11,300.00	89.49	314.893	4,157.85	4,348.61	-5,102.85	6,684.20	0.00	0.00	0.00
11,400.00	89.49	314.893	4,158.75	4,419.18	-5,173.69	6,784.19	0.00	0.00	0.00
11,500.00	89.49	314.893	4,159.64	4,489.76	-5,244.52	6,884.19	0.00	0.00	0.00
11,600.00	89.49	314.893	4,160.54	4,560.34	-5,315.36	6,984.19	0.00	0.00	0.00
11,700.00	89.49	314.893	4,161.43	4,630.91	-5,386.20	7,084.18	0.00	0.00	0.00
11,800.00	89.49	314.893	4,162.33	4,701.49	-5,457.04	7,184.18	0.00	0.00	0.00
11,900.00	89.49	314.893	4,163.22	4,772.06	-5,527.88	7,284.17	0.00	0.00	0.00
			1 10 1 10	4 0 40 0 4	F F00 70	7 204 47	0.00	0.00	0.00
12,000.00	89.49	314.893	4,164.12 4,165.02	4,842.64 4,913.22	-5,598.72 -5,669.56	7,384.17 7,484.17	0.00	0.00	0.00



Database: Company: DB_Feb2822

Project:

Enduring Resources LLC

Site:

San Juan County, New Mexico NAD83 NM W W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well:

W Lybrook Unit No. 863H

Wellbore: Design:

Original Hole rev3

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Local Co-ordinate Reference:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773)

RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

Planne	d 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)
	12,200.00	89.49	314.893	4,165.91	4,983.79	-5,740.40	7,584.16	0.00	0.00	0.00
	12,300.00 12,400.00 12,500.00 12,600.00 12,700.00 12,800.00 12,900.00 13,000.00 13,100.00 13,200.00	89.49 89.49 89.49 89.49 89.49 89.49 89.49 89.49 89.49	314.893 314.893 314.893 314.893 314.893 314.893 314.893 314.893 314.893	4,166.81 4,167.70 4,168.60 4,169.49 4,170.39 4,171.28 4,172.18 4,173.07 4,173.97 4,174.86	5,054.37 5,124.95 5,195.52 5,266.10 5,336.67 5,407.25 5,477.83 5,548.40 5,618.98 5,689.55	-5,811.24 -5,882.08 -5,952.92 -6,023.76 -6,094.59 -6,165.43 -6,236.27 -6,307.11 -6,377.95 -6,448.79	7,684.16 7,784.15 7,884.15 7,984.15 8,084.14 8,184.14 8,284.13 8,384.13 8,484.13 8,584.12	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	13,300.00 13,400.00 13,500.00 13,600.00 13,700.00 13,800.00 13,885.21	89.49 89.49 89.49 89.49 89.49	314.893 314.893 314.893 314.893 314.893 314.893	4,175.76 4,176.66 4,177.55 4,178.45 4,179.34 4,180.24 4,181.00	5,760.13 5,830.71 5,901.28 5,971.86 6,042.44 6,113.01 6,173.15	-6,519.63 -6,590.47 -6,661.31 -6,732.15 -6,802.99 -6,873.83 -6,934.19	8,684.12 8,784.11 8,884.11 9,084.10 9,184.10 9,269.30	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
	PBHL/TD 13	885.21 MD 4181.	00 TVD							

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
W Lybrook 863H 0 VSL - plan hits target cer - Point		0.005	4,098.00	-369.03	-367.63	1,892,405.621	2,739,402.874	36.200833821	-107.778047779
W Lybrook 863H LTP 22 - plan hits target cer - Point		0.005	4,181.00	6,173.15	-6,934.19	1,898,947.785	2,732,836.332	36.218814000	-107.800297000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.01 2,506.02	350.00 2,459.00	13 3/8" Casing 9 5/8" Casing		13-5/8 9-5/8	17-1/2 12-1/4	



Database: DB_Feb2822

Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

 Site:
 W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

Formations								
	Measured Depth (ft)	Vertical Depth (ft)		Name	Lithology	Dip (°)	Dip Direction (°)	
	194.00	194.00	Ojo Alamo					
	299.01	299.00	Kirtland					
	509.02	509.00	Fruitland					
	906.04	906.00	Pictured Cliffs					
	1,019.04	1,019.00	Lewis					
	1,264.05	1,264.00	Chacra					
	2,317.17	2,289.00	Cliff House					
	2,322.72	2,294.00	Menefee					
	3,411.25	3,274.00	Point Lookout					
	3,580.64	3,432.00	Mancos					
	3,930.33	3,763.00	MNCS_A					
	4,054.41	3,864.00	MNCS_B					
	4,187.84	3,954.00	MNCS_C					
	4,262.04	3,994.00	MNCS_Cms					

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coor +N/-S (ft)	dinates +E/-W (ft)	Comment	
2,453.00	2,411.28	-235.45	47.30	Survey @ 2453.00 MD 2411.28 TVD	
2,553.00	2,501.28	-277.67	58.12	KOP Begin 3°/100' build/turn	
2,591.81	2,536.22	-293.94	62.69	Begin 25.796° tangent	
3,434.72	3,295.13	-644.64	170.19	Begin 10°/100' build/turn	
4,251.62	3,988.79	-591.65	-108.55	Begin 60.00° tangent	
4,311.62	4,018.79	-560.27	-149.96	Begin 10°/100' build/turn	
4,615.54	4,098.00	-369.03	-367.63	Begin 89.487° lateral	
13,885.21	4,181.00	6,173.15	-6,934.19	PBHL/TD 13885.21 MD 4181.00 TVD	



DB Feb2822 Database:

Company: **Enduring Resources LLC**

Project: San Juan County, New Mexico NAD83 NM W W Lybrook 730 Pad (730, 763, 830, 861 & Site:

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole rev3 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Minimum Curvature

San Juan County, New Mexico NAD83 NM W **Project**

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: Map Zone: New Mexico Western Zone

System Datum:

Mean Sea Level

Site W Lybrook 730 Pad (730, 763, 830, 861 & 863)

1,888,164.052 usft Northing: 36.189179000 Site Position: Latitude: Lat/Long 2,741,098.391 usft -107.772310000 From: Easting: Longitude:

0.00 ft 13-3/16 " Slot Radius: **Position Uncertainty:**

W Lybrook Unit No. 863H, Surf loc: 1201 FNL 2446 FWL Section 27-T23N-09W Well

0.00 ft 1,892,774.650 usft 36.201847000 **Well Position** +N/-S Northing: Latitude:

+E/-W 0.00 ft 2,739,770.503 usft -107.776801000 Easting: Longitude: 0.00 ft ft 6,641.00 ft **Position Uncertainty** Wellhead Elevation: Ground Level:

Grid Convergence: 0.03 °

Original Hole Wellbore **Model Name** Declination Field Strength Magnetics Sample Date Dip Angle (°) (°) (nT) IGRF2020 3/8/2022 8.74 62.71 49,216.01313148

Design rev3 Audit Notes: Version: Phase: **PLAN** Tie On Depth: 2,453.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 314.890

Plan Survey Tool Program Date 3/30/2022 **Depth From** Depth To (ft) **Tool Name** (ft) Survey (Wellbore) Remarks MWD 400.00 2,453.00 MWD surf (Original Hole) OWSG MWD - Standard 2 2,453.00 13,885.15 rev3 (Original Hole) MWD OWSG MWD - Standard



Database: DB_Feb2822

Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

 Site:
 W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

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
2,453.00	25.84	165.630	2,411.28	-235.45	47.30	0.00	0.00	0.00	0.00	
2,553.00	25.84	165.630	2,501.28	-277.67	58.12	0.00	0.00	0.00	0.00	
2,591.81	25.80	162.958	2,536.22	-293.94	62.69	3.00	-0.11	-6.88	-93.37	
3,434.72	25.80	162.958	3,295.13	-644.64	170.19	0.00	0.00	0.00	0.00	
4,251.62	60.00	307.153	3,988.79	-591.65	-108.55	10.00	4.19	17.65	149.20	
4,311.62	60.00	307.153	4,018.79	-560.27	-149.96	0.00	0.00	0.00	0.00	
4,615.54	89.49	314.893	4,098.00	-369.03	-367.63	10.00	9.70	2.55	15.44	
13,885.21	89.49	314.893	4,181.00	6,173.15	-6,934.19	0.00	0.00	0.00	0.00	W Lybrook 863H LTP



Database: DB_Feb2822

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

Pla	nned 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	1,892,774.650	2,739,770.503	36.201847000	-107.776801000
	400.00	0.79	326.990	399.99	2.31	-1.50	1,892,776.962	2,739,769.001	36.201853355	-107.776806088
	493.00	0.44	318.640	492.98	3.12	-2.09	1,892,777.768	2,739,768.415	36.201855569	-107.776808070
	584.00	0.88	317.240	583.98	3.89	-2.79	1,892,778.543	2,739,767.710	36.201857700	-107.776810459
	675.00	0.44	311.790	674.97	4.64	-3.53	1,892,779.289	2,739,766.975	36.201859750	-107.776812948
	766.00	0.53	182.060	765.97	4.45	-3.80	1,892,779.101	2,739,766.699	36.201859235	-107.776813883 -107.776813974
	857.00 948.00	0.35 0.66	182.320 217.300	856.97 947.96	3.75 3.06	-3.83 -4.16	1,892,778.403 1,892,777.708	2,739,766.673 2,739,766.344	36.201857317 36.201855409	-107.776813974
	1,039.00	0.00	204.740	1,038.96	2.48	-4.16 -4.55	1,892,777.133	2,739,765.953	36.201853828	-107.776816415
	1,132.00	0.26	210.450	1,131.96	2.40	-4.73	1,892,776.789	2,739,765.772	36.201852883	-107.776817032
	1,226.00	0.57	183.640	1,225.96	1.49	-4.87	1,892,776.138	2,739,765.634	36.201851097	-107.776817500
	1,320.00	0.35	223.550	1,319.95	0.81	-5.10	1,892,775.464	2,739,765.407	36.201849244	-107.776818272
	1,414.00	0.57	209.130	1,413.95	0.20	-5.52	1,892,774.847	2,739,764.981	36.201847551	-107.776819716
	1,508.00	0.44	211.860	1,507.95	-0.52	-5.94	1,892,774.132	2,739,764.563	36.201845587	-107.776821134
	1,603.00	2.68	160.350	1,602.91	-2.92	-5.39	1,892,771.730	2,739,765.117	36.201838988	-107.776819260
	1,697.00	5.98	165.630	1,696.63	-9.73	-3.43	1,892,764.915	2,739,767.072	36.201820264	-107.776812648
	1,791.00	9.93	168.530	1,789.70	-22.43	-0.60	1,892,752.224	2,739,769.900	36.201785395	-107.776803087
	1,886.00	12.30	169.840	1,882.91	-40.42	2.81	1,892,734.234	2,739,773.314	36.201735968	-107.776791550
	1,981.00	14.24	168.440	1,975.37	-61.83	6.94	1,892,712.824	2,739,777.441	36.201677147	-107.776777605
	2,075.00	17.89	166.420	2,065.69	-87.20	12.65	1,892,687.454	2,739,783.150	36.201607445	-107.776758305
	2,170.00	22.02	166.680	2,154.97	-118.72	20.18	1,892,655.927	2,739,790.683	36.201520824	-107.776732836
	2,264.00	25.40	167.300	2,241.02	-155.55	28.67	1,892,619.102	2,739,799.177	36.201419648	-107.776704118
	2,358.00 2,453.00	25.84 25.84	167.300 165.630	2,325.78 2,411.28	-195.20 -235.45	37.61 47.30	1,892,579.451 1,892,539.198	2,739,808.113 2,739,817.803	36.201310708 36.201200114	-107.776673909 -107.776641146
					-235.45	47.30	1,092,339.196	2,739,617.603	30.201200114	-107.770041140
	2,500.00	2453.00 MD 25.84	165.630	2,453.58	-255.30	52.38	1,892,519.354	2,739,822.887	36.201145591	-107.776623953
	2,553.00	25.84	165.630	2,501.28	-277.67	58.12	1,892,496.976	2,739,828.620	36.201084108	-107.776604565
		in 3°/100' bui		_,			.,,	_, ,		
	2,591.81	25.80	162.958	2,536.22	-293.94	62.69	1,892,480.707	2,739,833.194	36.201039408	-107.776589092
	Begin 25	.796° tangent								
	2,600.00	25.80	162.958	2,543.59	-297.35	63.74	1,892,477.301	2,739,834.238	36.201030050	-107.776585560
	2,700.00	25.80	162.958	2,633.63	-338.96	76.49	1,892,435.695	2,739,846.992	36.200915734	-107.776542416
	2,800.00	25.80	162.958	2,723.66	-380.56	89.24	1,892,394.089	2,739,859.745	36.200801418	-107.776499272
	2,900.00	25.80	162.958	2,813.70	-422.17	102.00	1,892,352.484	2,739,872.499	36.200687102	-107.776456127
	3,000.00	25.80	162.958	2,903.73	-463.77	114.75	1,892,310.878	2,739,885.252	36.200572787	-107.776412983
	3,100.00	25.80	162.958	2,993.77	-505.38	127.50	1,892,269.272	2,739,898.006	36.200458471	-107.776369839
	3,200.00	25.80	162.958	3,083.80	-546.98	140.26	1,892,227.666	2,739,910.759	36.200344155	-107.776326695
	3,300.00	25.80	162.958	3,173.84	-588.59	153.01	1,892,186.060	2,739,923.513	36.200229839	-107.776283552
	3,400.00	25.80	162.958	3,263.87	-630.20	165.76	1,892,144.455	2,739,936.266	36.200115523	-107.776240408
	3,411.25	25.80	162.958	3,274.00	-634.88	167.20	1,892,139.774	2,739,937.701	36.200102663	-107.776235555
	Point Loc 3,434.72	25.80	162.958	3,295.13	-644.64	170.19	1,892,130.010	2,739,940.694	36.200075835	-107.776225430
		°/100' build/tu		0,200.10	011.01	170.10	1,002,100.010	2,700,010.001	00.200010000	107.77 0220 100
	3,450.00	24.49	164.845	3,308.96	-650.88	171.99	1,892,123.773	2,739,942.497	36.200058697	-107.776219331
	3,500.00	20.44	172.552	3,355.17	-669.55	175.84	1,892,105.097	2,739,946.341	36.200007388	-107.776206339
	3,550.00	16.88	183.587	3,402.55	-685.47	176.52	1,892,089.181	2,739,947.019	36.199963664	-107.776204072
	3,580.64	15.10	192.643	3,432.00	-693.81	175.36	1,892,080.845	2,739,945.867	36.199940766	-107.776207993
	Mancos									
	3,600.00	14.19	199.414	3,450.74	-698.51	174.02	1,892,076.146	2,739,944.526	36.199927858	-107.776212548
	3,650.00	12.91	220.175	3,499.37	-708.56	168.38	1,892,066.090	2,739,938.881	36.199900244	-107.776231701
	3,700.00	13.47	242.084	3,548.08	-715.56	159.62	1,892,059.091	2,739,930.127	36.199881030	-107.776261387
	3,750.00	15.65	260.086	3,596.50	-719.45	147.83	1,892,055.202	2,739,918.330	36.199870365	-107.776301379
<u> </u>	3,800.00	18.92	272.911	3,644.25	-720.20	133.08	1,892,054.451	2,739,903.580	36.199868327	-107.776351373



Database: DB_Feb2822

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: W Lybrook 730 Pad (730, 763, 830, 861 &

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Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
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Local Co-ordinate Reference:

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Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

Planned Survey	,								
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
3,850.00	22.80	281.802	3,690.98	-717.81	115.49	1,892,056.846	2,739,885.990	36.199874934	-107.776410988
3,900.00	27.04	288.130	3,736.32	-712.28	95.19	1,892,062.367	2,739,865.693	36.199890135	-107.776479772
3,930.33	29.72	291.129	3,763.00	-707.43	81.63	1,892,067.223	2,739,852.129	36.199903495	-107.776525737
MNCS_A 3,950.00	31.48	292.822	3,779.93	-703.68	72.34	1,892,070.974	2,739,842.844	36.199913814	-107.776557199
4,000.00	36.06	296.444	3,821.49	-692.05	47.11	1,892,082.599	2,739,817.616	36.199945790	-107.776642682
4,050.00	40.73	299.342	3,860.67	-677.50	19.70	1,892,097.155	2,739,790.202	36.199985821	-107.776735569
4,054.41	41.14	299.571	3,864.00	-676.08	17.18	1,892,098.576	2,739,787.687	36.199989728	-107.776744093
MNCS_E	3								
4,100.00	45.45	301.735	3,897.17	-660.12	-9.69	1,892,114.531	2,739,760.811	36.200033602	-107.776835153
4,150.00	50.22	303.767	3,930.73	-640.06	-40.84	1,892,134.595	2,739,729.666	36.200088769	-107.776940678
4,187.84	53.85	305.125	3,954.00	-623.18	-65.43	1,892,151.473	2,739,705.074	36.200135173	-107.777023995
MNCS_C									
4,200.00	55.02	305.534	3,961.07	-617.46	-73.50	1,892,157.194	2,739,697.003	36.200150902	-107.777051339
4,251.62	60.00	307.153	3,988.79	-591.65	-108.55	1,892,182.999	2,739,661.958	36.200221848	-107.777170071
4,262.04	0.00° tangent 60.00	307.153	3,994.00	-586.20	-115.74	1,892,188.449	2,739,654.765	36.200236832	-107.777194438
4,202.04 MNCS_C		307.133	3,994.00	-300.20	-115.74	1,092,100.449	2,739,034.703	30.200230032	-107.777 194436
4,300.00	ms 60.00	307.153	4,012.98	-566.35	-141.94	1,892,208.306	2,739,628.561	36.200291421	-107.777283217
4,311.62	60.00	307.153	4,018.79	-560.27	-149.96	1,892,214.381	2,739,620.543	36.200308123	-107.777310380
)°/100' build/tu		1,010.70	000.21	110.00	1,002,211.001	2,700,020.010	00.200000120	107.177010000
4,350.00	63.70	308.292	4,036.90	-539.56	-176.72	1,892,235.089	2,739,593.781	36.200365053	-107.777401046
4,400.00	68.54	309.672	4,057.13	-510.80	-212.24	1,892,263.850	2,739,558.258	36.200444117	-107.777521391
4,450.00	73.39	310.963	4,073.43	-480.22	-248.27	1,892,294.428	2,739,522.236	36.200528177	-107.777643428
4,500.00	78.25	312.190	4,085.67	-448.06	-284.52	1,892,326.592	2,739,485.987	36.200616591	-107.777766226
4,550.00	83.11	313.374	4,093.77	-414.55	-320.72	1,892,360.096	2,739,449.788	36.200708687	-107.777888853
4,600.00	87.97	314.535	4,097.65	-379.96	-356.59	1,892,394.686	2,739,413.916	36.200803764	-107.778010374
4,615.54	89.49	314.893	4,098.00	-369.03	-367.63	1,892,405.619	2,739,402.873	36.200833816	-107.778047781
	0.487° lateral	244.002	4 000 70	200.42	407.40	4 000 405 005	0.700.040.045	20.00007052	407 770050440
4,700.00 4,800.00	89.49 89.49	314.893 314.893	4,098.76 4,099.65	-309.43 -238.85	-427.46 -498.30	1,892,465.225 1,892,535.801	2,739,343.045 2,739,272.206	36.200997653 36.201191643	-107.778250449 -107.778490418
4,900.00	89.49	314.893	4,099.05	-236.63	-496.30 -569.14	1,892,606.377	2,739,272.200	36.201385633	-107.778730387
5,000.00	89.49	314.893	4,101.44	-97.70	-639.98	1,892,676.953	2,739,130.528	36.201579622	-107.778970358
5,100.00	89.49	314.893	4,102.34	-27.12	-710.82	1,892,747.529	2,739,059.689	36.201773610	-107.779210331
5,200.00	89.49	314.893	4,103.23	43.46	-781.65	1,892,818.105	2,738,988.850	36.201967598	-107.779450304
5,300.00	89.49	314.893	4,104.13	114.03	-852.49	1,892,888.681	2,738,918.011	36.202161586	-107.779690278
5,400.00	89.49	314.893	4,105.02	184.61	-923.33	1,892,959.257	2,738,847.171	36.202355573	-107.779930254
5,500.00	89.49	314.893	4,105.92	255.18	-994.17	1,893,029.833	2,738,776.332	36.202549559	-107.780170231
5,600.00	89.49	314.893	4,106.81	325.76	-1,065.01	1,893,100.410	2,738,705.493	36.202743545	-107.780410209
5,700.00	89.49	314.893	4,107.71	396.34	-1,135.85	1,893,170.986	2,738,634.654	36.202937531	-107.780650188
5,800.00 5,900.00	89.49 89.49	314.893 314.893	4,108.60 4,109.50	466.91 537.49	-1,206.69 -1,277.53	1,893,241.562 1,893,312.138	2,738,563.815 2,738,492.976	36.203131516 36.203325501	-107.780890169 -107.781130150
6,000.00	89.49	314.893	4,110.40	608.07	-1,348.37	1,893,382.714	2,738,422.137	36.203519485	-107.781370133
6,100.00	89.49	314.893	4,111.29	678.64	-1,419.21	1,893,453.290	2,738,351.298	36.203713468	-107.781610117
6,200.00	89.49	314.893	4,112.19	749.22	-1,490.05	1,893,523.866	2,738,280.459	36.203907452	-107.781850102
6,300.00	89.49	314.893	4,113.08	819.79	-1,560.89	1,893,594.442	2,738,209.620	36.204101434	-107.782090089
6,400.00	89.49	314.893	4,113.98	890.37	-1,631.73	1,893,665.018	2,738,138.781	36.204295416	-107.782330076
6,500.00	89.49	314.893	4,114.87	960.95	-1,702.56	1,893,735.594	2,738,067.942	36.204489398	-107.782570065
6,600.00	89.49	314.893	4,115.77	1,031.52	-1,773.40	1,893,806.171	2,737,997.103	36.204683379	-107.782810055
6,700.00	89.49	314.893	4,116.66 4 117 56	1,102.10	-1,844.24 1,015.08	1,893,876.747 1,893,947.323	2,737,926.264	36.204877360	-107.783050046
6,800.00 6,900.00	89.49 89.49	314.893 314.893	4,117.56 4,118.45	1,172.68 1,243.25	-1,915.08 -1,985.92	1,893,947.323	2,737,855.425 2,737,784.586	36.205071340 36.205265320	-107.783290038 -107.783530032
7,000.00	89.49	314.893	4,119.35	1,313.83	-2,056.76	1,894,088.475	2,737,764.566	36.205459299	-107.783770026
7,000.00	00.10	0.1.000	.,	.,0.00	_,000.70	.,00.,000.170	_, ,	00.200 100200	



Database: DB_Feb2822

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

Measured Depth Inclination Azimuth Depth Crit	Planned Survey									
Popth										
CP\$. =	•			
7.100.00 89.44 314.893 4.100.24 1.394.40 2.127.60 1.594.159.055 2.737.642.906 38.206563278 1.107.740.100 89.44 314.893 4.112.04 1.595.56 2.269.28 1.894.300.203 2.737.570.29 38.206041234 1.107.74450017 7.500.00 89.44 314.893 4.112.04 1.595.56 2.269.28 1.894.300.203 2.737.570.29 38.206041234 1.107.74450017 7.500.00 89.44 314.893 4.112.04 1.595.56 2.269.28 1.894.300.203 2.737.591.229 38.206041234 1.107.76450017 7.500.00 89.44 314.893 4.112.04 1.595.56 2.269.28 1.894.300.203 2.737.591.229 38.206041234 1.107.76450017 7.500.00 89.44 314.893 4.112.05 1.806.71 2.410.99 1.894.441.355 2.737.359.551 38.204029188 1.107.76450017 7.500.00 89.44 314.893 4.125.62 1.807.66 2.552.63 1.894.552.500 2.737.217.873 38.206197146 1.107.765450026 7.500.00 89.44 314.893 4.125.41 1.878.44 2.62 2.1807.66 2.552.63 1.894.552.500 2.737.076.105 38.207250916 1.107.76550026 7.500.00 89.44 314.893 4.125.41 2.0 2.010.99 2.756.15 1.894.773.890 2.737.076.105 38.207250916 1.107.76550026 7.500.00 89.44 314.893 4.120.20 2.000.17 2.835.99 1.894.864.812 2.736.934.517 38.2075599056 1.107.76850026 8.200.00 89.44 314.893 4.130.99 2.213.22 2.977.67 1.885.005.984 2.736.782.899 38.207250961 1.107.76850026 8.200.00 89.44 314.893 4.130.99 2.213.22 2.977.67 1.885.005.984 2.736.782.899 38.207250966 1.107.76850026 8.200.00 89.44 314.893 4.130.29 2.200.00 2.100.74 2.835.99 1.894.864.812 2.736.893.38 2.736.893.39 38.207950966 1.107.76850026 8.200.00 89.44 314.893 4.130.29 2.200.00 2.100.74 2.835.99 1.894.864.812 2.736.593.39 38.207950966 1.107.76850026 8.200.00 89.44 314.893 4.130.29 2.200.00 2.100.74 2.835.99 1.894.864.812 2.736.593.39 38.207950966 1.107.76850026 8.200.00 89.44 314.893 4.130.29 2.200.00 2.100.74 2.835.99 1.894.864.812 2.736.593.39 3.207950966 1.107.76850026 8.200.00 89.44 314.893 4.130.29 2.200.00 2.100.74 2.835.99 1.200.00 2.200.00	-						_		Latitude	Longitude
7,200.00 89.49 314.893 4,122.19 1,525.56 2,269.28 189.75 501.228 30.00041234 107.78450017 7,400.00 89.49 314.893 4,122.93 1,596.13 2,340.12 1,894.370.779 2,737.400.30 32.00253211 7,500.00 89.49 314.893 4,122.93 1,596.13 2,340.12 1,894.370.779 2,737.400.30 32.00253211 7,500.00 89.49 314.893 4,122.92 1,737.29 2,481.80 1,894.511.932 2,737.288.712 32.006023165 1-107.784570017 7,500.00 89.49 314.893 4,122.51 1,874.49 2,552.63 3,894.541.35 2,737.288.712 32.006023165 1-107.785210019 7,500.00 89.49 314.893 4,122.51 1,878.44 2,623.47 1,894.653.044 2,737.147.034 32.07005991 1-107.785500018 8,000.00 89.49 314.893 4,122.30 2,019.59 2,765.15 1,894.704.236 02 2,737.005.336 32.027390065 1-107.786150028 8,100.00 89.49 314.893 4,122.30 2,019.59 2,765.15 1,894.704.236 02 2,737.005.336 32.027390065 1-107.786150028 8,200.00 89.49 314.893 4,122.30 2,019.59 2,765.15 1,894.504.204 32 2,737.005.336 32.027390065 1-107.786150028 8,200.00 89.49 314.893 4,123.00 2,109.17 2,297.64 3,189.49.353.88 2,738.683.67 30 32.07750712 1-107.786150028 8,200.00 89.49 314.893 4,131.89 2,019.00 3,048.51 1,894.935.388 2,738.683.67 30 32.07750712 1-107.786150028 8,200.00 89.49 314.893 4,131.89 2,019.00 3,048.51 1,895.455.25 2,737.685.35 30 32.07750712 1-107.786150028 8,200.00 89.49 314.893 4,131.89 2,019.00 3,048.51 1,895.455.25 2,738.680.377 30 32.000685 1-107.786150028 8,200.00 89.49 314.893 4,131.89 2,019.00 3,048.51 1,895.455.25 2,738.680.377 30 32.000685 1-107.786150028 8,200.00 89.49 314.893 4,131.89 2,019.00 3,048.51 1,895.4576.25 3,000.594 2,735.265.11 3,000.200685 1-107.786150028 8,200.00 89.49 314.893 4,131.89 2,019.00 3,048.51 1,895.4576.25 3,000.594 2,735.680.31 3,000.200685 1-107.78750028 8,200.00 89.49 314.893 4,131.89 2,019.00 3,048.51 1,895.4576.25 3,000.594 2,735.680.31 3,000.200685 1-107.78750028 9,000.00 89.49 314.893 4,147.11 2,500.60 2,736.50 3,000.20068 3,000.200686 3,000.200686 3,000.200686 3,000.200686 3,000.200686 3,000.200686 3,000.200686 3,000.200686 3,000.200686 3,000.20068 3,000.200686 3,000.20068 3,000.20068 3,000.20068 3,000.	7 100 00			4 120 24			1 804 150 051	2 727 642 008		-
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8 ,000.00 89 49 314 893 4 ,128 30 2.019.59 - 2.785.15 1,884.794.26 2,737,005.356 38 ,207389065 - 107.786170088 8,100 00 89 49 314 893 4 ,130.09 2,180.74 - 2.85.96 83 1,884.985.388 2,738,863.678 38 ,207787012 - 107.786850064 8,400.00 89 49 314 893 4 ,131.89 2,201.90 - 3.048.51 1,885.076.540 2,736.722.00 36 ,201.74588 - 107.787310078 8,500.00 89.49 314 893 4 ,132.78 2,372.47 - 3.119.35 1,885.176.540 2,736.722.00 36 ,201.7458 - 107.787310078 8,600.00 89.49 314 893 4 ,135.87 2,885.27 3,119.35 1,885.176.540 2,736.780.32 38 ,20285001 - 107.787810116 8,800.00 89.49 314 893 4 ,135.47 2,884.20 3,331.87 1,885.358.45 2,736.843.844 38 ,20885001 - 107.787810118 8,800.00 89.49 314 893 4,135.47 2,584.20 3,331.87 1,885.358.45 2,736.843.844 38 ,20885801 - 107.787850116 8,800.00 89.49 314 893 4,135.47 2,584.20 3,331.87 1,885.358.845 2,736.843.844 38 ,20885801 - 107.78830163 8,900.00 89.49 314 893 4,135.47 2,584.20 3,331.87 1,885.358.845 2,736.843.844 38 ,20885802 1,007.78830163 8,900.00 89.49 314 893 4,138.19 2,735.53 3,544.38 1,885.570.573 2,736.296.66 36 ,208333762 - 107.78850168 9,100.00 89.49 314 893 4,139.00 2,865.50 3,547.38 1,885.4789 2,736.59.89 3,548.28 1,885.4789 2,736.59.89 3,548.28 1,885.4789 2,736.59.89 3,548.28 1,885.4789 2,736.59.89 3,548.38 1,885.28 1,88	7,800.00	89.49	314.893	4,126.51	1,878.44	-2,623.47	1,894,653.084	2,737,147.034	36.207011116	-107.785690026
8.100.00 89.49 314.893 4.129.20 2.090.17 2.835.99 1,884.894.812 2.738.934.617 38.207580339 -107.786410048 8.300.00 89.49 314.893 4.130.99 2.231.32 2.977.67 1.85.005.964 2.736.792.839 36.20780085 -107.786800064 8.500.00 89.49 314.893 4.131.89 2.301.99 3.048.11 1.885.076.50 2.736.792.239 36.20180085 -107.78778130076 8.500.00 89.49 314.893 4.133.68 2.443.05 3.100.19 3.885.282.217.883 2.736.580322 36.208562901 -107.787781016 8.600.00 89.49 314.893 4.135.67 2.513.62 -3.261.01 3.885.282.829 2.736.594.83 36.208562901 -107.787850116 8.800.00 89.49 314.893 4.135.67 2.594.20 3.331.87 1.885.4286.299 2.736.594.83 36.2095766772 -107.787850116 8.900.00 89.49 314.893 4.136.36 2.854.78 3.402.71 1.885.4286.299 2.736.948.844 36.2095766772 -107.7878530163 9.900.00 </td <td>7,900.00</td> <td>89.49</td> <td>314.893</td> <td>4,127.41</td> <td>1,949.01</td> <td>-2,694.31</td> <td>1,894,723.660</td> <td>2,737,076.195</td> <td>36.207205091</td> <td>-107.785930031</td>	7,900.00	89.49	314.893	4,127.41	1,949.01	-2,694.31	1,894,723.660	2,737,076.195	36.207205091	-107.785930031
8 200 00 8 94 9 314 893 4 130 99 2 2160 74 2-296 83 1 884 935 388 2 738 863 678 8 227787012 - 107.786500068 840 00 8 94 9 314 893 4 131 89 2 301 90 3 048 51 1.885 576 540 2 738 722 000 38 208174658 - 107.78771028 850000 89 49 314 893 4 131 89 2 301 90 3 048 51 1.885 576 540 2 738 722 000 38 208386930 - 107.787750088 8,000 00 89 49 314 893 4 133 68 2 443 05 - 3.180 19 1.895 147 618 2 2736,651 161 3 80 208386930 - 107.787610102 8,700 00 89 49 314 893 4 135 47 2 524 20 - 3,331 87 1.895 528 529 2 735,509 483 36 208386930 - 107.787610102 8,700 00 89 49 314 893 4 136 72 52 513 62 - 3,261 03 1.895 288 269 2 735,509 483 36 208386930 - 107.787610102 8,700 00 89 49 314 893 4 137 67 275 275 35 - 3,473 64 1,895 4,995 666 6 208387872 - 107.788501068 9,000 00 89 49 314 893 4 133 68 2 2,755 35 - 3,473 64 1,895 4,996 666 2 2,736 378 696 66 2 2,736 378 678 678 678 678 678 678 678 678 678 6	8,000.00	89.49	314.893	4,128.30	2,019.59	-2,765.15	1,894,794.236	2,737,005.356	36.207399065	-107.786170038
8 300.00 89 49 314.893 4,130.99 2,231.32 2,2977.67 1,895.005.964 2,736.792.839 36.207980985 -107.78850064 8,500.00 89.49 314.893 4,132.78 2,372.47 3,119.35 1,895,147.116 2,736,651.181 36.208368930 -107.787370088 6,600.00 89.49 314.893 4,135.78 2,372.47 3,119.35 1,895,147.116 2,736,651.181 36.208368930 -107.787370088 6,600.00 89.49 314.893 4,145.47 2,513.62 3,261.03 1,895,288.269 2,736,590.483 36.208568930 -107.787370088 6,800.00 89.49 314.893 4,145.27 2,564.20 3,331.87 1,895,358.845 2,736,439.6448 36.208950843 -107.78890132 6,900.00 89.49 314.893 4,147.12 2,525.35 3,473.54 1,895,499.97 2,736,296.966 36.209338782 -107.78850108 9,000.00 89.49 314.893 4,149.05 2,866.51 3,815.22 1,895,499.97 2,736,296.966 36.209338782 -107.78850108 9,000.00 89.49 314.893 4,149.04 3,007.66 3,756.90 1,895,782.301 2,736,1448 36.20890688 -107.788500508 9,400.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,1448 36.20990688 -107.788500508 9,500.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,1448 36.20990688 -107.788500508 9,500.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,1448 36.20990688 -107.788500508 9,500.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,541.49 36.2090688 -107.78950020 9,700.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,541.49 36.20906883 -107.789500509 9,700.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,541.49 36.20906685 -107.79950020 9,700.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,541.49 36.20906683 -107.79950020 9,700.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,541.49 36.20906685 -107.79950020 9,700.00 89.49 314.893 4,144.24 3,249.89 4,249.89 4,249.89 4,249.89 4,249.89 36.2090668 -107.79950026 9,700.00 89.49 314.893 4,144.24 3,249.89 4,249.89 4,249.89 4,249.89 36.2096686 -107.79950000 9,40 314.893 4,144.42 3,249.89 4,249.89 4,249.89 4,249.89 36.2096686 -107.79950000 1,000.00 89.49 314.893 4,148.91 4,144.20 3,249.89 4,249.89 4,249.89 4,249.89 30,249.89 314.893 4,148.90 3,1	8,100.00	89.49	314.893	4,129.20	2,090.17	-2,835.99	1,894,864.812	2,736,934.517	36.207593039	-107.786410046
8.400.00 89.49 314.893 4,131.89 2,301.90 3,048.51 1,895.076.540 2,736.722.000 36.208174958 -107.78730076 8.600.00 89.49 314.893 4,132.78 2,372.47 3,119.55 1,895.147.116 2,736.861.161 36.208368930 -107.787875018 8.600.00 89.49 314.893 4,134.67 2,513.62 3,261.03 1,895.281.289 2,736.599.483 36.20856804 -107.787875018 8.600.00 89.49 314.893 4,136.36 2,664.78 3.402.71 1,895.586.845 2,736.488.644 36.208850843 -107.78850186 9,000.00 89.49 314.893 4,136.36 2,664.78 3.402.71 1,895.586.845 2,736.598.0322 36.209144813 -107.788530150 9,000.00 89.49 314.893 4,136.36 2,664.78 3.544.28 1,895.599.97 2,736.208.96 96 36.209338782 -107.78850186 9,100.00 89.49 314.893 4,139.90 2,066.61 3,615.22 1,895.681.141 2,736.155.287 36.20976270 -107.78850186 9,100.00 89.49 314.893 4,139.91 2,937.08 3,686.06 1,895.782.30 1,895.781.28 36.2095088 -107.789502030 9,200.00 89.49 314.893 4,140.84 3,076.66 3,766.90 1,895.782.30 1,2736.801.48 36.209920688 -107.789502030 9,500.00 89.49 314.893 4,140.84 3,076.66 3,766.90 1,895.782.30 1,2736.801.49 36.2093207670 -107.78850180 9,500.00 89.49 314.893 4,140.84 3,076.66 3,766.90 1,895.782.30 1,2736.811.39 36.210502589 -107.789502030 9,500.00 89.49 314.893 4,141.73 3,078.23 3,387.74 1,895.950.00 89.49 314.893 4,141.73 3,078.23 3,387.74 1,895.950.00 89.49 314.893 4,141.73 3,078.23 3,387.74 1,895.950.00 89.49 314.893 4,141.26 3,341.81 3,386.55 1,895.92.34 2,735.580.19 3 36.210502589 1.077.89502030 9,500.00 89.49 314.893 4,144.26 3,341.81 3,386.55 1,895.67.35 3,735.58 3,735.25 36.210502589 1.077.89503028 9,800.00 89.49 314.893 4,144.24 3,289.96 4,040.26 1,896.64.60 2,735.730.25 36.2108623 1.077.89503028 9,800.00 89.49 314.893 4,144.24 3,289.96 4,040.26 1,896.64.60 2,735.505.91 3 36.21068555 1.077.790490356 1,000.00 89.49 314.893 4,146.21 3,431.12 4,146.49 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60 1,287.60 3,486.60	8,200.00	89.49	314.893	4,130.09	2,160.74	-2,906.83	1,894,935.388	2,736,863.678	36.207787012	-107.786650054
8,000.00 89,49 314,893 4,133,68 2,434,430 5,31,019 1,895,217,639 2,736,590,322 336,206552091 -107,7876701016 8,700.00 89,49 314,893 4,134,57 2,513,62 3,261,03 1,895,288,269 2,736,509,483 36,20875872 -107,787850116 8,900.00 89,49 314,893 4,135,47 2,594,20 -3,331,87 1,895,388,845 2,736,438,644 36,208950843 -107,788909132 8,900.00 89,49 314,893 4,137,26 2,725,35 3,473,54 1,895,498,997 2,736,296,996 36,209338782 -107,788570168 9,000.00 89,49 314,893 4,139,15 2,759,59 3,544,38 1,895,570,573 2,736,226,126 36,209532751 1,077,888510167 9,200.00 89,49 314,893 4,139,94 2,397,08 3,866,51 8,385,171,725 2,736,844,48 36,20952088 1,148,183 4,149,94 2,397,08 3,386,141,177,25 2,736,844,48 36,20952088 1,148,189,189,189,189,189,189,189,189,189,18	8,300.00	89.49	314.893	4,130.99	2,231.32	-2,977.67	1,895,005.964	2,736,792.839	36.207980985	-107.786890064
8,000.00 89.49 314.893 4,134.87 2,513.62 3,210.19 1,895,217.693 2,736,580.32 36,208526901 -107,787610102 8,000.00 89.49 314.893 4,136.57 2,513.62 3,251.03 1,895,358.845 2,736,360.0483 36,20856863 -107,78850116 8,000.00 89.49 314.893 4,136.57 2,581.20 3,281.31 1,895,358.845 2,736,367.805 36,209144813 -107,78830110 9,000.00 89.49 314.893 4,137.26 2,725.35 3,473.34 1,895,469.997 2,736,367.805 36,209144813 -107,78830110 9,000.00 89.49 314.893 4,139.15 2,795.93 3,544.38 1,895,570.573 2,736,226.12 36,209338782 -107,788570188 9,100.00 89.49 314.893 4,139.15 2,795.93 3,544.38 1,895,570.573 2,736,226.12 36,209525751 -107,7889106208 9,400.00 89.49 314.893 4,139.15 2,866.51 3,615.22 1,895,641.149 2,736,155.27 8,000,00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,711.72 2,736,044.48 36,209920688 -107,789500230 9,400.00 89.49 314.893 4,144.084 3,007.66 3,756.90 1,895,711.72 2,736,044.48 36,209920688 -107,789500230 9,400.00 89.49 314.893 4,144.084 3,007.66 3,756.90 1,895,852.857 2,735,847.70 82,10308623 -107,789570276 9,600.00 89.49 314.893 4,144.53 3,148.81 3,895,852.857 2,735,847.70 82,10308623 -107,7890103032 9,800.00 89.49 314.893 4,144.53 3,148.81 3,895,852.859 4,700.50 89.49 314.893 4,144.42 3,289.96 4,000.26 1,896,064.600 2,735,730,255 362.10980521 -107,7990103036 9,900.00 89.49 314.893 4,144.53 3,345.14 4,145.14 3,145.20 8,145	8,400.00	89.49	314.893	4,131.89		-3,048.51	1,895,076.540	2,736,722.000	36.208174958	-107.787130076
8,700.00 89.49 314.893 4,134.57 2,513.62 3,261.03 1,895,288.269 2,736,509.483 36.208756872 -107.787850116 8,000.00 89.49 314.893 4,135.47 2,584.20 3,331.87 1,895,358.845 2,736,367.805 36.209144813 -107.788530150 9,000.00 89.49 314.893 4,135.26 2,725.35 3,473.54 1,895,499.997 2,736,269.696 36.20933782 -107.788530150 9,000.00 89.49 314.893 4,139.15 2,759.53 3,5473.54 1,895,499.997 2,736,269.696 36.20933782 -107.78850167 9,200.00 89.49 314.893 4,139.15 2,795.93 3,544.34 81,895,705.73 2,736,269.696 36.209532781 -107.78850167 9,200.00 89.49 314.893 4,139.15 2,937.08 3,866.06 1,895,717.25 2,736,362.26.126 36.209532781 -107.78850203 9,400.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,103.609 36.209146856 -107.789502023 9,400.00 89.49 314.893 4,140.84 3,007.66 3,756.90 1,895,782.301 2,736,013.609 36.21014656 -107.789502023 9,700.00 89.49 314.893 4,142.63 3,148.81 3,898.89 81 ,895,292.454 2,735,817.931 36.210308623 -107.799012036 9,800.00 89.49 314.893 4,142.63 3,219.39 -3,969.42 1,895,994.030 2,735,801.092 36.210690555 -107.790250338 9,800.00 89.49 314.893 4,144.52 3,360.54 4,111.10 1,896,135.182 2,735,580.1092 36.210890555 -107.790250338 9,900.00 89.49 314.893 4,145.32 3,360.54 4,111.10 1,896,135.182 2,735,580.1092 36.2108486 -107.790970358 10,000.00 89.49 314.893 4,145.32 3,360.54 4,111.10 1,896,135.182 2,735,580.1092 36.2108486 -107.790970358 10,000.00 89.49 314.893 4,145.32 3,360.54 4,111.10 1,896,135.182 2,735,580.1092 36.2108486 -107.790970358 10,000.00 89.49 314.893 4,145.03 3,713.24 4,465.29 1,895,690.791 2,735,580.1092 36.2108486 -107.790970358 10,000.00 89.49 314.893 4,145.03 3,735.01.69 4,252.78 1,896,576.73 34 2,735,580.59 36 2,1107.8456 10,7791905073 10,000.00 89.49 314.893 4,145.03 3,735.40 4,411.10 1,896,135.182 2,735,580.50 219 36.21024486 -107.799105047 10,000.00 89.49 314.893 4,145.03 3,735.40 4,411.10 1,896,636.00 2,735,600.00 36.21466367 -107.799105047 10,000.00 89.49 314.893 4,155.48 3,925.15 4,677.81 1,896,690.79 1 2,735,500.270 36.21462667 -107.799105048 10,000.00 89.49 314.893	8,500.00	89.49	314.893	4,132.78	2,372.47	-3,119.35	1,895,147.116	2,736,651.161	36.208368930	-107.787370088
8,800.00 89.49 314.893 4,136.36 2,2564.78 3,3402.71 1,895,358.845 2,736,249.6966 36.209134813 -107.788301150 9,000.00 89.49 314.893 4,136.36 2,5265.73 3,473.54 1,895,499.997 2,736,269.966 36.20933762 -107.788301150 9,000.00 89.49 314.893 4,139.05 2,725.35 3,544.38 1,895,570.573 2,736,269.966 36.209532751 -107.788301150 9,000.00 89.49 314.893 4,139.05 2,666.51 -3,615.22 1,895,641.149 2,736,165.287 36.209526720 -107.789505028 9,300.00 89.49 314.893 4,140.84 3,007.66 3,766.90 1,895,782.01 2,725.80 1,800.00 89.49 314.893 4,140.84 3,076.63 -3,866.06 1,895,782.01 2,727.00 1,800.00 89.49 314.893 4,140.84 3,076.63 -3,867.69 0,1865,782.01 2,725,801.30 36.21013666 -107.789502028 9,500.00 89.49 314.893 4,142.63 3,148.81 -3,898.58 1,895,923.454 2,735,871.931 36.210336623 -107.790703028 9,500.00 89.49 314.893 4,144.64 3,328.99 4.404.02.65 1,895,924.54 2,735,871.931 36.210386525 -107.790250328 9,500.00 89.49 314.893 4,144.24 3,289.99 4.404.02.65 1,895,694.606 2,735,730.253 36.210896555 -107.790250328 9,500.00 89.49 314.893 4,144.25 3,289.99 4.404.02.65 1,896,613.6162 2,735,871.931 36.21034646 -107.7909703455 10,000.00 89.49 314.893 4,145.53 3,361.54 4,181.94 1,896,205.756 2,735,861.99 36.21044466 -107.790730385 10,000.00 89.49 314.893 4,145.50 3,360.54 4,141.10 1,896,135.162 2,735,871.935 36.211044466 -107.790730385 10,000.00 89.49 314.893 4,145.10 3,361.12 4,181.94 1,896,205.756 2,735,569.414 36.211044466 -107.790730385 10,000.00 89.49 314.893 4,145.10 3,361.69 4,262.27 8,866,276.33 4,735,376.058 36.211278451 -107.791210447 10,200.00 89.49 314.893 4,145.10 3,361.69 4,465.29 1,896,265.756 2,735,569.414 36.211044466 -107.79930385 10,000.00 89.49 314.893 4,145.00 3,572.27 4,323.61 1,896,364.802 2,735,376.058 36.21128466 107.79930385 10,000.00 89.49 314.893 4,145.10 3,361.69 4,465.29 1,896,469.802 2,735,576.058 36.211264361 -107.79930385 10,000.00 89.49 314.893 4,156.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.60 4,466.6	8,600.00	89.49	314.893	4,133.68			1,895,217.693		36.208562901	-107.787610102
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Database: DB_Feb2822

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,500.00	89.49	314.893	4,168.60	5,195.52	-5,952.92	1,897,970.160	2,733,817.599	36.216127409	-107.796971555
12,600.00	89.49	314.893	4,169.49	5,266.10	-6,023.76	1,898,040.736	2,733,746.760	36.216321361	-107.797211616
12,700.00	89.49	314.893	4,170.39	5,336.67	-6,094.59	1,898,111.313	2,733,675.921	36.216515312	-107.797451678
12,800.00	89.49	314.893	4,171.28	5,407.25	-6,165.43	1,898,181.889	2,733,605.081	36.216709264	-107.797691742
12,900.00	89.49	314.893	4,172.18	5,477.83	-6,236.27	1,898,252.465	2,733,534.242	36.216903214	-107.797931806
13,000.00	89.49	314.893	4,173.07	5,548.40	-6,307.11	1,898,323.041	2,733,463.403	36.217097164	-107.798171872
13,100.00	89.49	314.893	4,173.97	5,618.98	-6,377.95	1,898,393.617	2,733,392.564	36.217291114	-107.798411939
13,200.00	89.49	314.893	4,174.86	5,689.55	-6,448.79	1,898,464.193	2,733,321.725	36.217485063	-107.798652007
13,300.00	89.49	314.893	4,175.76	5,760.13	-6,519.63	1,898,534.769	2,733,250.886	36.217679011	-107.798892076
13,400.00	89.49	314.893	4,176.66	5,830.71	-6,590.47	1,898,605.345	2,733,180.047	36.217872959	-107.799132147
13,500.00	89.49	314.893	4,177.55	5,901.28	-6,661.31	1,898,675.921	2,733,109.208	36.218066907	-107.799372218
13,600.00	89.49	314.893	4,178.45	5,971.86	-6,732.15	1,898,746.497	2,733,038.369	36.218260854	-107.799612291
13,700.00	89.49	314.893	4,179.34	6,042.44	-6,802.99	1,898,817.074	2,732,967.530	36.218454801	-107.799852365
13,800.00	89.49	314.893	4,180.24	6,113.01	-6,873.83	1,898,887.650	2,732,896.691	36.218648747	-107.800092440
13,885.21	89.49	314.893	4,181.00	6,173.15	-6,934.19	1,898,947.785	2,732,836.332	36.218814000	-107.800297000
PBHL/TD	13885.21 MD	4181.00 TVI)						

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
W Lybrook 863H 0 VSL i - plan hits target cent - Point		0.005	4,098.00	-369.03	-367.63	1,892,405.621	2,739,402.874	36.200833821	-107.778047779
W Lybrook 863H LTP 22 - plan hits target cent - Point	0.00 ter	0.005	4,181.00	6,173.15	-6,934.19	1,898,947.785	2,732,836.332	36.218814000	-107.800297000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.01 2,506.02		13 3/8" Casing 9 5/8" Casing		13-5/8 9-5/8	17-1/2 12-1/4	

ormations								
	Measured Depth (ft)	Vertical Depth (ft)	Na	me	Lithology	Dip (°)	Dip Direction (°)	
	3,411.25	3,274.00	Point Lookout					
	3,580.64	3,432.00	Mancos					
	3,930.33	3,763.00	MNCS_A					
	4,054.41	3,864.00	MNCS_B					
	4,187.84	3,954.00	MNCS_C					
	4,262.04	3,994.00	MNCS_Cms					



Database: DB_Feb2822

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: W Lybrook 730 Pad (730, 763, 830, 861 &

863)

Well: W Lybrook Unit No. 863H

Wellbore: Original Hole
Design: rev3

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well W Lybrook Unit No. 863H

RKB=6641+28 @ 6669.00ft (Ensign 773) RKB=6641+28 @ 6669.00ft (Ensign 773)

Grid

notations				
Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
2,453.00	2,411.28	-235.45	47.30	Survey @ 2453.00 MD 2411.28 TVD
2,553.00	2,501.28	-277.67	58.12	KOP Begin 3°/100' build/turn
2,591.81	2,536.22	-293.94	62.69	Begin 25.796° tangent
3,434.72	3,295.13	-644.64	170.19	Begin 10°/100' build/turn
4,251.62	3,988.79	-591.65	-108.55	Begin 60.00° tangent
4,311.62	4,018.79	-560.27	-149.96	Begin 10°/100' build/turn
4,615.54	4,098.00	-369.03	-367.63	Begin 89.487° lateral
13,885.21	4,181.00	6,173.15	-6,934.19	PBHL/TD 13885.21 MD 4181.00 TVD



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

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

WELL INFORMATION:

Name: W LYBROOK UNIT 863H

API Number: 30-045-38189
AFE Number: DV03069
ER Well Number: NM08266.01
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 1,201 ft FNL 2,446 ft FWL

36.201847 ° N latitude 107.776801 ° W longitude (NAD 83) **BH Location:** 21-23N-09W Sec-Twn-Rng 223 ft FNL 877 ft FWL

36.218814 ° N latitude 107.800297 ° 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 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	2,313	G, W	sub
Menefee	4,360	2,309	2,330	G, W	normal
Point Lookout	3,380	3,289	3,425	G, W	normal
Mancos	3,225	3,444	3,592	O,G	sub (~0.38)
Gallup (MNCS_A)	2,900	3,769	3,935	O,G	sub (~0.38)
MNCS_B	2,795	3,874	4,065	O,G	sub (~0.38)
MNCS_C	2,705	3,964	4,199	O,G	sub (~0.38)
MNCS_Cms	2,662	4,007	4,280	O,G	sub (~0.38)
FTP (LP) TARGET	2,563	4,106	4,624	O,G	sub (~0.38)
LTP (TD) TARGET	2,491	4,178	13,894	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/ftEvacuated hole gradient:0.22 psi/ftMaximum anticipated BH pressure, assuming maximum pressure gradient:1,800 psiMaximum anticipated surface pressure, assuming partially evacuated hole:890 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 the 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 minimimize 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.

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

Hole Size: 17-1/2"

Flui

Bit / Motor: Mill Tooth or PDC, no motor MWD / Survey: No MWD, deviation survey

Logging: None

MU Torque (ft lbs):

Procedure: Drill to TD. Use 12-/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	536	116,634	116,634
Min. S.F.					7.39	5.09	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 N/A Optimum: Maximum: N/A

Make-up as per API Buttress Connection running procedure.

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

Minumum:

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

			Yield	Water	Hole Cap.		Planned TOC	Total Cmt	
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	(cuft/ft)	% Excess	(ft MD)	(sx)	
	Type III	14.6	1.39	6.686	0.6946	100%	0	350	1

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	2,502 ft (MD)	Hole Section Length:	2,152 ft				
350 ft (TVD)	to	2,459 ft (TVD)*	Casing Required:	2,502 ft				
A								

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

			FL		ΥP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comments
	LSND (KCI)	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

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.

						Tens. Body	Tens. Conn
						. c.i.s. bouy	
Casing Specs:	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)

Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,074	1,031	178,547	178,547
Min. S.F.					1.88	3.42	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): 3,400 Optimum: 4,530 Maximum: Minumum: 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)

			Yield	Water		Planned TOC	Total Cmt
Cement:	Туре	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	470
Tail	Type III	14.6	1.38	6.64	20%	2,002	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.

2,502	ft (MD)	to	13,894 ft (MD)	Hole Section Length:	11,392 ft
2,459	ft (TVD)	to	4,178 ft (TVD)	Casing Required:	13,894 ft

Estimated KOP:	3,446	ft (MD)	3,307 ft (TVD)
Estimated Landing Point (FTP):	4,624	ft (MD)	4,106 ft (TVD)
Estimated Lateral Length:	9,270	ft (MD)	

id:	Туре	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	ES	OWR
ıu.	турс	INIAA (bbg)	TE (IIIE/30)	r v (cp)	(10/ 100 3411)	LJ	OWN
	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"

Flui

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

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

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 TOOH & LD drill pipe (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. Pump cement as detailed below. Note cement volume circulated to surface. Nipple down BOPE. Clean pits. RDMO to next pad.

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					2,064	8,891	353,817	353,817
Min. S.F.					3.61	1.20	1.54	1.26

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): Minumum: 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-intitiation 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 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

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

past) the planned LTP as possible.

			Yield	Water		Planned TOC	Total Cmt
Cement:	Туре	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)
Lead	Type III	12.4	2.360	13.40	65%	0	460
Tail	G:POZ blend	13.3	1.560	7.70	10%	3,592	1,664

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 definted by NMAC19.15.16.15.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. Cap well. Clean pits. Prepare to move to next pad.

COMPLETION AND PRODUCTION PLAN:

Frac: 40 plug-and-perf stages with 280,000 bbls slickwater fluid and 17,000,000 lbs of proppant (estimated) **Flowback:** Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance) **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 3,095')

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

MD (ft KB)

194

299

509

906

1,019

1,264

2,313

2,330

3,425

3.592

3.935

4,065

4,199

4,280

4,624

13.894

194

299

509

906

1,019

1,264

2,289

2,309

3,289

3.444

3,769

3 874

3,964

4,007

4.178

WELL NAME: W LYBROOK UNIT 863H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Cms formation

API Number: 30-045-38189 AFE Number: DV03069 ER Well Number: NM08266.01 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 ft FNL 2,446 ft FWL 1,201 BH Location: 21-23N-09W Sec-Twn- Rng 223 ft FNL 877 ft FWL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

Sur TD (MD)	350	ft
Int TD (MD)	2,502	ft
KOP (MD)	3,446	ft
KOP (TVD)	3,307	ft
Target (TVD)	4,106	ft
Curve BUR	10	°/100 ft
POE (MD)	4,624	ft
TD (MD)	13,894	ft
Lat Len (ft)	9,270	ft

QUICK REFERENCE

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 (Southest) for 0.6 miles to W Lybrook Unit 730H Pad (wells: 730H, 763H, 830H, 861H, 863H).

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	2,502	9.625	36.0	J-55	LTC	0	2,502
Production	8.500	13,894	5.500	17.0	P-110	LTC	0	13,894

CEMENT PROPERTIES SUMMARY:

					Hole Cap.		TOC	
_	Туре	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	(cuft/ft)	% Excess	(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	470
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,002	136
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	460
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	3,592	1,664

COMPLETION / PRODUCTION SUMMARY:

Frac: 40 plug-and-perf stages with 280,000 bbls slickwater fluid and 17,000,000 lbs of proppant (estimated) Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance) Production: Produce through production tubing via gas-lift into permanent production and storage facilities

Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

Other Completion

5. Lease Serial No. N0-G-1403-1953

Recomplete

☐ Water Disposal

☐ Temporarily Abandon

Do not use th	RY NOTICES AND REPO his form for proposals a ell. Use Form 3160-3 (A	n	6. If Indian, Allottee or Tribe Name			
SUBMI	T IN TRIPLICATE - Other instru	uctions on page 2		7. If Unit of CA/Agreement, Name and/or No. NMNM135216A		
	☐Gas Well ☐Other			8. Well Name and No. Greater Lybrook Unit 86	53Н	
2. Name of Operator Enduring Resources IV LLC				9. API Well No. 30-045-38189		
3a. Address 200 Energy Court Farmington NN	Л 87401	3b. Phone No. <i>(include area code)</i> 505-636-9743		10. Field and Pool or Exploratory Area Lybrook Mancos W		
4. Location of Well (Footage, Sec. SHL: 1201' FSL & 2446' FWL, Sec 2 BHL: 2497' FNL & 2307' FEL, Sec 2	7 T23N, R9W			11. Country or Parish, St San Juan, NM	ate	
12.	CHECK THE APPROPRIATE B	OX(ES) TO INDICATE NATUR	RE OF NOTIC	E, REPORT OR OTHEF	R DATA	
TYPE OF SUBMISSION		TY	TE OF ACTION	ON		
□Notice of Intent	Acidize	Deepen	□Produ	ction(Start/Resume)	☐Water ShutOff	
	☐Alter Casing	☐ Hydraulic Fracturing ☐ Recla		nation	☐ Well Integrity	

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

■ New Construction

☐ Plug and Abandon

☐Plug Back

6/23/2022 thru 6/27/2022- Pre frac site set up, MIRU, Pressure test

Casing Repair

☐Change Plans

☐Convert to Injection

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

6/28/2022 thru 7/11/2022- 24 hour Frac Ops. 39 total stages, total holes 1,638, 4403 - 13789' MD. Perfed w 0.31" holes with SFT-NE45B, FRP-48H, CSA-2400, Bardac 2250M, Sour N8R, SCI-28H & 12,243,285 lbs total proppant

7/18/2022 thru 7/21/2022 - Drilling out operations

7/21/2022 - tubing landed at 4,318' MD

Subsequent Report

Final Abandonment Notice

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)	Title: Environmental Engineer						
Kayla White							
Rayla Write	Date: 9/2/2022						
THE SPACE FOR FEDE	RAL OR STATE OF	CE USE					
Approved by							
	Title	Date					
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject least which would entitle the applicant to conduct operations thereon.							
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any p	person knowingly and willful	y to make to any department or agency of the United States					

Released to Imaging: 10/26/2023 8:37:54 AM

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1. Type Elec	etric & Othe	er Mech	anical Lo	ogs Rur	ı (Submit	copy of each	1)				W	as well as DST irection	run?	•	⊠No ⊠No □No	· 🔲	Yes (Subm Yes (Subm Yes (Subm		
Form 3160- (June 2015)		cord (Re	port all s	strings :		TED STA	TES												
Hole Size	Size/Gra	de	Wt. (#f	t.)	Top (MD)	Bottom (N	MD)	Stage Cer Dep	menter th	N Tyj	o. of Sk pe of Ce	s. & ement	5	Slurry Vol. (BBL)		Cement	Top*	Amount Pulled	_
17-1/2"	13-3/8"		54.5	0		360.76	MD				350		86.6	,	_	face			_
12-1/4"	9-5/8",		36	0		2535' N					606		218			face			_
8-1/2"	5-1/2",	P-110	17	0		13899′ [VID				2124	ļ	657		sur	face			—
24. Tubing	Record Dept S	et (MD)	Pac	ker Dep	t (MD)	Size		Denth Se	et (MD)	Pack	er Dent	h (MD)		Size		Denth	Set (MD)	Packer Depth (M	D)
2-7/8", 6.5		et (1.12)	4251		(112)	Sille		B op an S o	(1,12)	T don	or Dept.	()		5120		Depui	500 (1112)	Tuester Bepair (iii)	-)
L-80 25. Produci	ng Intervals							26. Perfo	ration Re	cord									
	Formation				Op .	Bottom		Pe	erforated In	terva	1		Size		o. Hole	es		Perf. Status	
Gallup				3/6/	' TVD	4132' TV	ט	4403'-13	789' IVIL)		.31		1638	3				
27. Acid, F	racture, Tre	atment,	Cement	Squeez	e, Post hy	l draulic fracti	ıring c	hemical d	isclosures	s on I	FracFo	cus.org							
1403'-1378	epth Interval 9' MD	l	39	total s	tages, to			• •						e upload on			RP-48H,	CSA-2400, Bardac	_
			225	50M, S	our N8R	, SCI-28H &	12,2	43,285 lb	s total p	rop	oant								_
8.Production	- Interval A	A																	
Date First Produced 8/4/2022	Test Date 8/4/2022	Hours Tested 24 hr	Test Prod	uction	Oil BBL 70	Gas MCF 217	BH 0	ater BL	Oil Grav Corr. AF			Gas Gravity		Production Flowing	n Met	hod			
Choke Size 64/64"	Tbg. Press. 780	Csg. Press. 1107	24 H Rate		Oil BBL	Gas MCF		ater BL	Gas/Oil Ratio			Well Sta Produci							
28a. Produc	l ction - Inter	val B		_	<u> </u>	<u> </u>													_
Date First Produced	Test Date	Hours Tested	Test Prod	uction	Oil BBL	Gas MCF	Wa BE	ater BL	Oil Grav Corr. AF			Gas Gravity		Production	n Metl	hod			
		L			<u> </u>	1			<u> </u>					<u> </u>					—

Choke	Tbg. Press.	Can	24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status		
Size	Flwg.	Press.	Rate	BBL	MCF	BBL	Ratio	Well Status		
*(See instr	uctions and	spaces for	additional da	ta on page	: 2)	· L	•			
28b. Produ	ction - Inter	val 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 Produ	ıction - Inter	val D								
	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. Dispos	l sition of Gas	(Solid. us	ed for fuel, ve	nted, etc.						
		(21 Farmation	n (Log) Markers	
Show a	ll important ing depth inte	zones of p	nclude Aquife orosity and co l, cushion used	ntents the			rill-stem tests, pressures and	51. Formation	I (Log) Markers	
									Тор	
				riptions, Conte	nts, etc.	Name Meas. Depth				
OJAM KRLD FRLD PCCF CLFH MENF PNLK MNCS Gallup	29 50 90 22 22 32 33 34	9' 9'								
32. Additio	onal remarks	(include	plugging proc	edure).						
33. Indica	te which iter	ns have be	een attached b	y placing	a check in the	appropriate be	oxes:			
□Elec	trical/Mechan	ical Logs (l full set req'd.)		□Geo	logic Report	☐DST Report		☑Directional Survey	
Sund	dry Notice for	plugging a	nd cement verif	ication	□Cor	e Analysis	☐Other:			
N	oy certify that ame (please) gnature		yla White	ched info	mation is con		rect as determined fritle Environment Date: 9/2/2022		ole records (see attached instruc	ctions) *

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

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 143992

ACKNOWLEDGMENTS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way, Suite 525	Action Number:
Centennial, CO 80111	143992
	Action Type:
	[C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

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

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CONDITIONS

Action 143992

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way, Suite 525	Action Number:
Centennial, CO 80111	143992
	Action Type:
	[C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	10/26/2023