

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

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-045-35891	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 321259	⁸ Property Name W LYBROOK UNIT		⁹ Well Number 768H

II. ¹⁰ Surface Location

25 H	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 1846'	North/South Line North	Feet from the 749'	East/West line East	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. A	Section 15	Township 23N	Range 9W	Lot Idn	Feet from the 368'	North/South line North	Feet from the 1,267'	East/West line East	County San Juan
¹² Lse Code N	¹³ Producing Method Code		¹⁴ Gas Connection Date ~3/20/2021		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

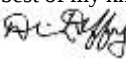
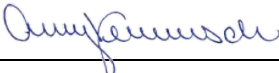
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
372286	Enduring Resources IV, LLC	O

IV. Well Completion Data

²¹ Spud Date 5/6/19	²² Ready Date ~3/20/2021	²³ TD 13470' MD 4383' TVD	²⁴ PBDT 13327' MD 4388' TVD	²⁵ Perforations ~ 4473'-13067' MD ~4250' – 4390' TVD	²⁶ DHC, MC R-14051
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	
17-1/2"		13-3/8",54.5#, J-55		252' MD	
12-1/4"		9-5/8",36#, J-55		2702' MD	
8-1/2"		5-1/2",17#, P-110		13460' MD	
³⁰ Sacks Cement					
315 sx - surface					
755 sx - surface					
2345 sx - surface					

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Deidre Duffy			Approved by: 		
Title: Senior Ecologist			Title: Data Compliance Manager		
E-mail Address: Deidre.duffy@wsp.com			Approval Date: 3-19-21		
Date: 2/18/2021		Phone: 808-352-0200			

District I
811 S. First Street, Artesia, NM 88210
Phone: (505) 393-6161 Fax: (505) 393-0720

District II
811 S. First Street, Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

Submit one copy to
Appropriate District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code 98157		*Pool Name LYBROOK MANCOS W	
*Property Code 321259		*Property Name W LYBROOK UNIT			*Well Number 768H
*GRID No. 372286		*Operator Name ENDURING RESOURCES, LLC			*Elevation 6737'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	23N	9W		1846	NORTH	749	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	15	23N	9W		368	NORTH	1267	EAST	SAN JUAN

12 Dedicated Acres 400.0 SW/4 NW/4, N/2 SW/4
SE/4 SW/4, SW/4 SE/4 - Section 14
E/2 NE/4 - Section 15
N/2 NE/4, SE/4 NE/4 - Section 23

¹³ Joint or Infill¹⁴ Consolidation Code

15	Order No.
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R-14051 - 12,807.24 Acres

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

17 OPERATOR CERTIFICATION

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

Heath Hume 2/18/21

Signature
Heather Huntington

Printed Name
hhuntington@enduringresources.com

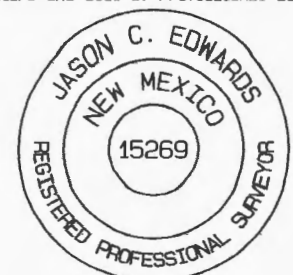
E-mail Address

18 SURVEYOR CERTIFICATION

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

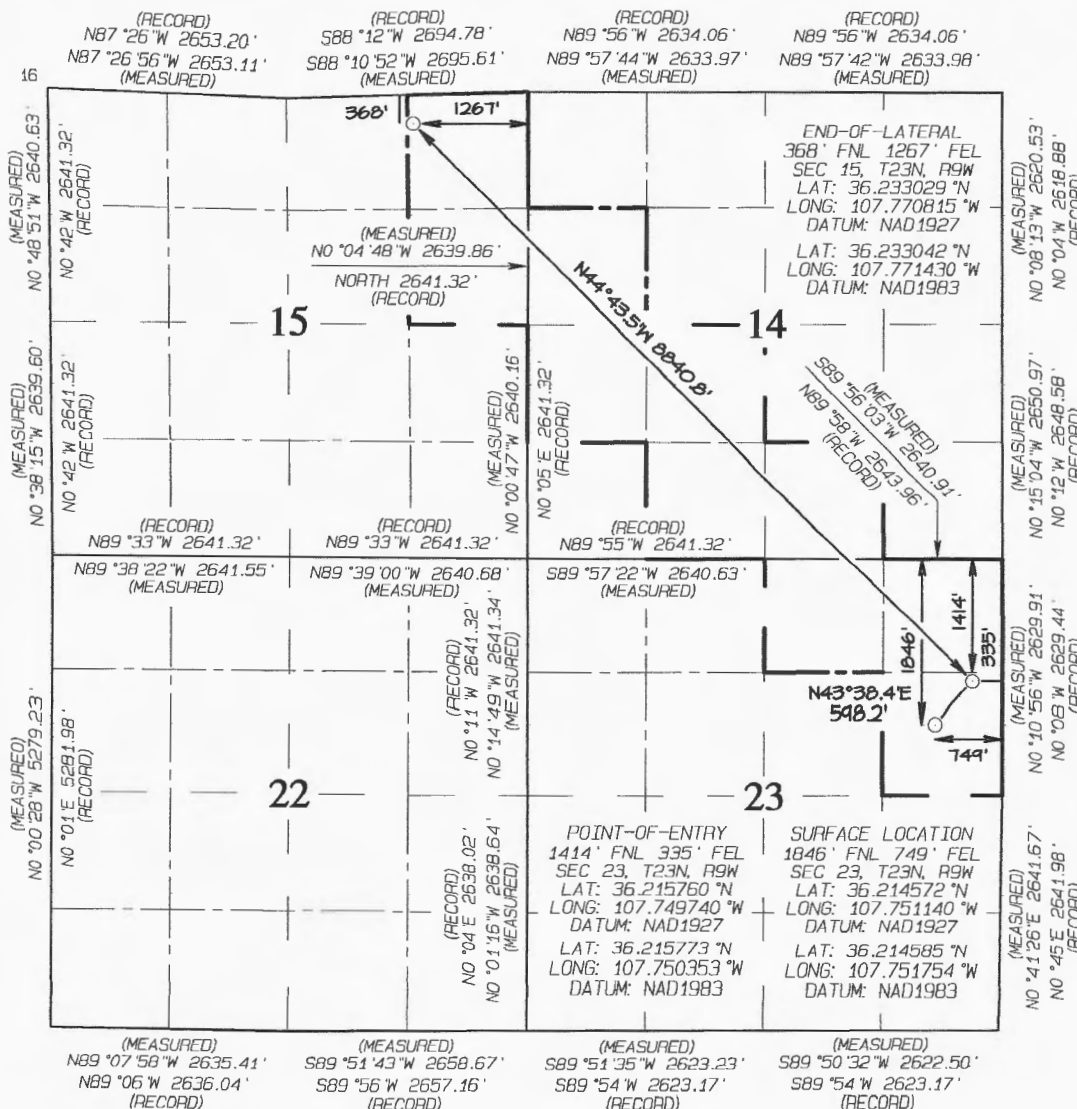
Date Revised: AUGUST 7, 2019
Date of Survey: MAY 16, 2018

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269





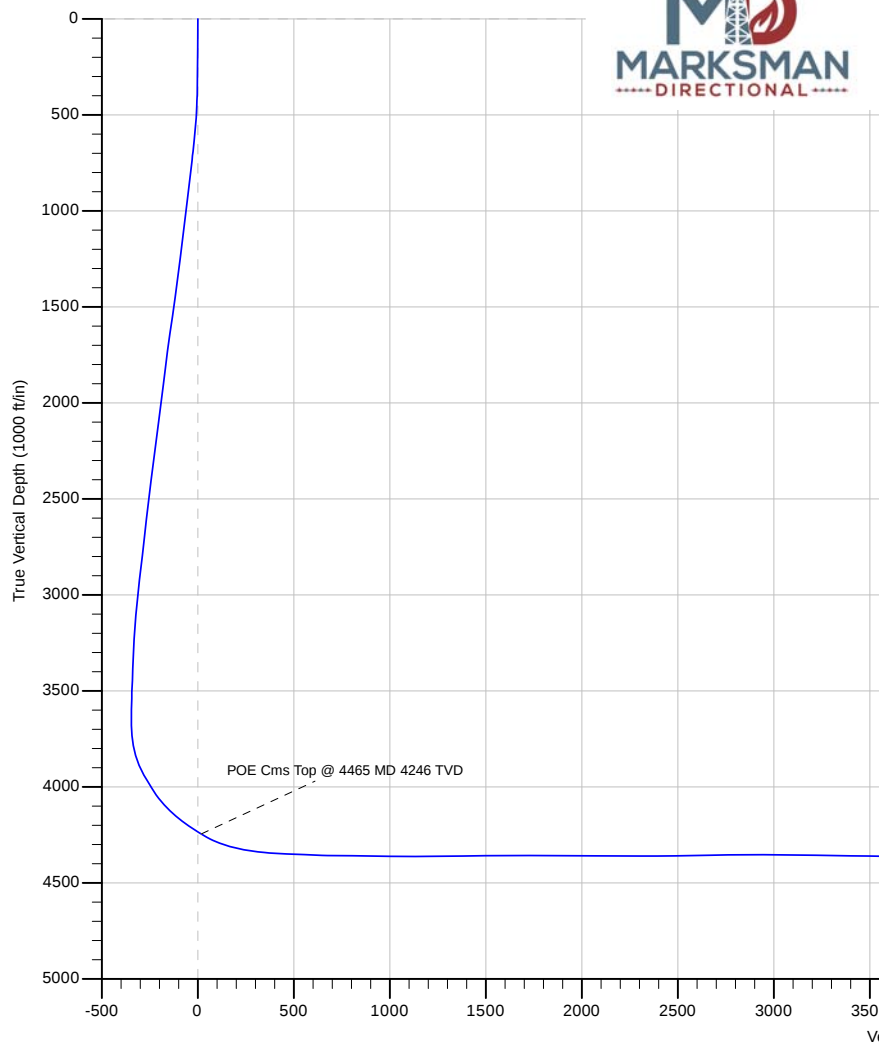
Well: W Lybrook Unit Well No. 768 H
Site: W Lybrook Unit
Project: San Juan County, New Mexico NAD83 NM W
Design: Surveys Original Hole
Rig: Ensign 773

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone
 System Datum: Mean Sea Level
 Depth Reference: RKB=6737+28 @ 6765.00ft (Ensign 773)
 Northing: 1897416.80 Easting: 2747156.27 Latitude: 36.21458500 Longitude: -107.75175400
 Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Add 8.944°



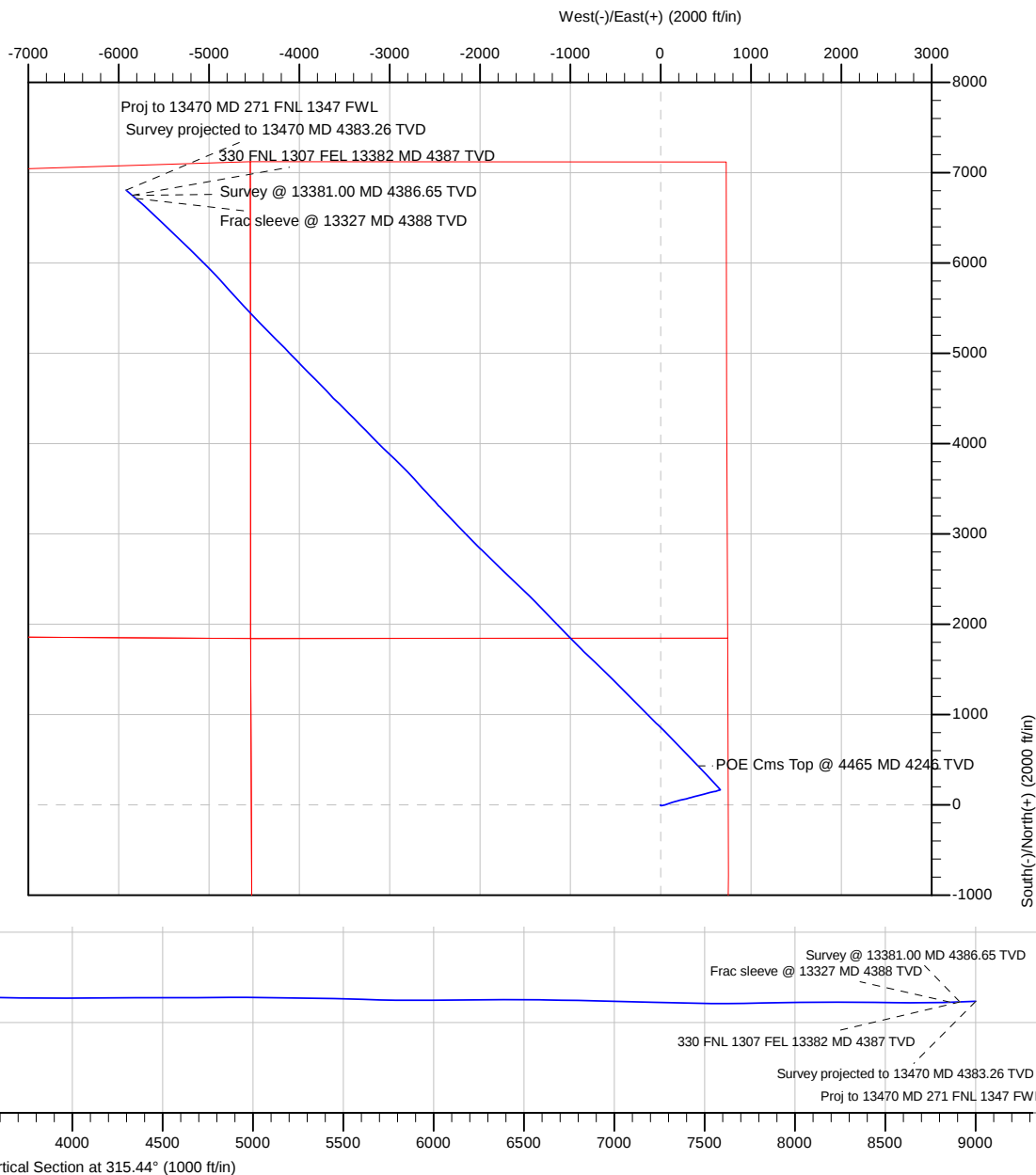
Azimuths to Grid North
 True North: -0.05°
 Magnetic North: 8.94°

Magnetic Field
 Strength: 49519.7snT
 Dip Angle: 62.87°
 Date: 6/28/2019
 Model: IGRF2015



ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
305.00	1.81	211.16	304.95	-4.12	-2.49	-1.19	MWD surveys
4465.00	58.07	315.81	4245.79	432.94	412.94	18.73	POE Cms Top @ 4465 MD 4246 TVD
13327.00	91.69	310.82	4388.47	6714.34	-5808.29	8859.49	Frac sleeve @ 13327 MD 4388 TVD
13381.00	92.18	310.72	4386.65	6749.59	-5849.16	8913.28	Survey @ 13381.00 MD 4386.65 TVD
13382.00	92.18	310.72	4386.61	6750.24	-5849.92	8914.28	330 FNL 1307 FEL 13382 MD 4387 TVD
13470.00	92.18	310.72	4383.26	6807.60	-5916.56	9001.92	Proj to 13470 MD 271 FNL 1347 FWL
13470.00	92.18	310.72	4383.26	6807.60	-5916.56	9001.92	Survey projected to 13470 MD 4383.26 TVD





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

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

Site		W Lybrook Unit			
Site Position:		Northing:	1,897,416.80 usft	Latitude:	36.21458500
From:	Lat/Long	Easting:	2,747,156.27 usft	Longitude:	-107.75175400
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.048 °

Well	W Lybrook Unit Well No. 768 H, Surf loc: 1846 FNL 749 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,897,416.80 usft	Latitude:	36.21458500
	+E/-W	0.00 ft	Easting:	2,747,156.27 usft	Longitude:	-107.75175400
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,737.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/28/2019	8.992	62.867	49,519.73302485

Design	Surveys Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	315.44	

Survey Program	Date	8/5/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
305.00	2,655.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,731.00	13,381.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
13,470.00	13,470.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
305.00	1.81	211.16	304.95	-4.12	-2.49	-1.19	0.59	0.59	0.00	
MWD surveys										
396.00	1.87	118.51	395.92	-6.06	-1.93	-2.96	2.92	0.07	-101.81	
487.00	4.21	95.53	486.79	-7.09	2.70	-6.95	2.85	2.57	-25.25	
578.00	7.03	88.58	577.34	-7.28	11.59	-13.32	3.18	3.10	-7.64	
670.00	11.24	78.54	668.16	-5.35	26.02	-22.07	4.88	4.58	-10.91	
762.00	14.56	73.20	757.83	-0.23	45.88	-32.35	3.83	3.61	-5.80	
853.00	15.37	71.49	845.74	6.91	68.27	-42.98	1.01	0.89	-1.88	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

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)
942.00	15.32	68.77	931.57	14.91	90.41	-52.81	0.81	-0.06	-3.06
1,033.00	14.96	74.14	1,019.42	22.47	112.92	-63.22	1.59	-0.40	5.90
1,124.00	14.83	72.03	1,107.36	29.28	135.29	-74.07	0.61	-0.14	-2.32
1,217.00	15.27	70.41	1,197.17	37.05	158.15	-84.57	0.65	0.47	-1.74
1,307.00	15.11	78.37	1,284.03	43.39	180.81	-95.95	2.32	-0.18	8.84
1,399.00	14.47	77.15	1,372.99	48.37	203.76	-108.51	0.77	-0.70	-1.33
1,491.00	14.38	72.81	1,462.09	54.30	225.88	-119.80	1.18	-0.10	-4.72
1,584.00	15.21	78.67	1,552.01	60.11	248.88	-131.80	1.84	0.89	6.30
1,676.00	15.10	80.66	1,640.81	64.42	272.54	-145.32	0.58	-0.12	2.16
1,769.00	14.30	73.92	1,730.77	69.57	295.53	-157.79	2.03	-0.86	-7.25
1,861.00	14.45	72.10	1,819.89	76.25	317.37	-168.35	0.52	0.16	-1.98
1,952.00	14.79	74.96	1,907.95	82.75	339.39	-179.17	0.88	0.37	3.14
2,044.00	14.65	75.36	1,996.93	88.74	361.99	-190.76	0.19	-0.15	0.43
2,137.00	14.52	75.60	2,086.93	94.61	384.66	-202.48	0.15	-0.14	0.26
2,229.00	14.37	75.06	2,176.02	100.42	406.86	-213.92	0.22	-0.16	-0.59
2,320.00	14.34	75.02	2,264.18	106.25	428.65	-225.07	0.03	-0.03	-0.04
2,410.00	14.21	74.97	2,351.40	111.99	450.09	-236.01	0.15	-0.14	-0.06
2,502.00	13.87	75.78	2,440.65	117.63	471.68	-247.15	0.43	-0.37	0.88
2,594.00	13.33	75.61	2,530.07	122.97	492.65	-258.05	0.59	-0.59	-0.18
2,655.00	13.07	76.87	2,589.46	126.29	506.18	-265.18	0.64	-0.43	2.07
2,731.00	13.10	74.87	2,663.49	130.49	522.86	-273.89	0.60	0.04	-2.63
2,822.00	12.09	72.51	2,752.30	136.04	541.90	-283.30	1.25	-1.11	-2.59
2,914.00	13.20	79.32	2,842.07	140.89	561.42	-293.54	2.02	1.21	7.40
3,006.00	12.03	79.33	2,931.85	144.61	581.16	-304.74	1.27	-1.27	0.01
3,098.00	11.47	76.62	3,021.92	148.50	599.48	-314.82	0.85	-0.61	-2.95
3,190.00	8.89	72.56	3,112.47	152.75	615.17	-322.80	2.91	-2.80	-4.41
3,283.00	8.43	72.53	3,204.41	156.95	628.52	-329.18	0.49	-0.49	-0.03
3,373.00	5.82	72.52	3,293.70	160.30	639.17	-334.26	2.90	-2.90	-0.01
3,465.00	5.49	67.85	3,385.26	163.36	647.70	-338.06	0.62	-0.36	-5.08
3,558.00	3.87	86.43	3,477.95	165.23	654.95	-341.82	2.36	-1.74	19.98
3,650.00	1.62	77.33	3,569.84	165.71	659.32	-344.54	2.48	-2.45	-9.89
3,742.00	0.44	48.38	3,661.82	166.23	660.85	-345.25	1.36	-1.28	-31.47
3,788.00	1.08	345.81	3,707.82	166.77	660.88	-344.88	2.09	1.39	-136.02
3,833.00	7.05	320.94	3,752.68	169.33	659.03	-341.76	13.53	13.27	-55.27
3,879.00	13.33	320.85	3,797.94	175.64	653.90	-333.67	13.65	13.65	-0.20
3,925.00	18.01	319.42	3,842.21	185.16	645.92	-321.29	10.21	10.17	-3.11
3,971.00	22.88	318.65	3,885.30	197.28	635.38	-305.25	10.60	10.59	-1.67
4,016.00	27.46	316.76	3,926.02	211.41	622.49	-286.14	10.33	10.18	-4.20
4,061.00	30.44	317.50	3,965.39	227.38	607.67	-264.37	6.67	6.62	1.64
4,108.00	30.59	316.46	4,005.88	244.82	591.39	-240.51	1.17	0.32	-2.21
4,152.00	35.57	317.56	4,042.74	262.40	575.03	-216.51	11.40	11.32	2.50
4,198.00	40.50	317.58	4,078.96	283.31	555.92	-188.20	10.72	10.72	0.04
4,244.00	45.29	317.41	4,112.65	306.38	534.77	-156.92	10.42	10.41	-0.37



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,290.00	48.53	316.25	4,144.07	330.87	511.78	-123.34	7.28	7.04	-2.52
4,336.00	51.61	315.68	4,173.59	356.23	487.26	-88.07	6.76	6.70	-1.24
4,381.00	55.48	316.44	4,200.33	382.29	462.16	-51.89	8.71	8.60	1.69
4,427.00	57.81	315.50	4,225.62	409.91	435.45	-13.47	5.34	5.07	-2.04
4,465.00	58.07	315.81	4,245.79	432.94	412.94	18.73	0.96	0.67	0.80
POE Cms Top @ 4465 MD 4246 TVD									
4,473.00	58.12	315.87	4,250.02	437.81	408.21	25.52	0.96	0.67	0.80
4,517.00	63.46	314.87	4,271.48	465.12	381.23	63.91	12.30	12.14	-2.27
4,563.00	68.01	315.73	4,290.38	494.93	351.75	105.84	10.04	9.89	1.87
4,607.00	73.25	317.61	4,304.97	525.12	323.28	147.32	12.57	11.91	4.27
4,654.00	76.04	316.23	4,317.42	558.21	292.33	192.62	6.58	5.94	-2.94
4,700.00	79.35	316.53	4,327.22	590.75	261.33	237.55	7.22	7.20	0.65
4,744.00	82.31	316.50	4,334.23	622.26	231.44	280.98	6.73	6.73	-0.07
4,836.00	85.42	316.98	4,344.06	688.87	168.76	372.42	3.42	3.38	0.52
4,927.00	87.68	315.27	4,349.54	754.34	105.81	463.24	3.11	2.48	-1.88
5,019.00	87.65	314.91	4,353.29	819.44	40.91	555.16	0.39	-0.03	-0.39
5,110.00	87.61	313.56	4,357.05	882.87	-24.23	646.06	1.48	-0.04	-1.48
5,201.00	89.76	315.33	4,359.14	946.56	-89.18	737.01	3.06	2.36	1.95
5,293.00	90.00	313.35	4,359.33	1,010.86	-154.97	828.99	2.17	0.26	-2.15
5,386.00	88.72	315.87	4,360.37	1,076.16	-221.17	921.97	3.04	-1.38	2.71
5,478.00	88.32	314.93	4,362.75	1,141.65	-285.74	1,013.93	1.11	-0.43	-1.02
5,570.00	90.40	315.81	4,363.77	1,207.11	-350.37	1,105.92	2.45	2.26	0.96
5,663.00	90.61	315.32	4,362.95	1,273.51	-415.47	1,198.92	0.57	0.23	-0.53
5,755.00	90.77	315.24	4,361.85	1,338.88	-480.20	1,290.91	0.19	0.17	-0.09
5,847.00	90.67	315.54	4,360.69	1,404.37	-544.81	1,382.90	0.34	-0.11	0.33
5,937.00	90.30	313.38	4,359.93	1,467.40	-609.04	1,472.88	2.43	-0.41	-2.40
6,030.00	90.54	314.39	4,359.25	1,531.87	-676.06	1,565.84	1.12	0.26	1.09
6,120.00	90.50	313.21	4,358.43	1,594.16	-741.02	1,655.80	1.31	-0.04	-1.31
6,213.00	90.24	312.96	4,357.83	1,657.68	-808.94	1,748.72	0.39	-0.28	-0.27
6,305.00	89.80	315.99	4,357.80	1,722.13	-874.58	1,840.70	3.33	-0.48	3.29
6,397.00	89.29	315.16	4,358.53	1,787.83	-938.97	1,932.69	1.06	-0.55	-0.90
6,489.00	89.02	314.71	4,359.88	1,852.80	-1,004.09	2,024.68	0.57	-0.29	-0.49
6,581.00	89.70	316.05	4,360.91	1,918.28	-1,068.71	2,116.67	1.63	0.74	1.46
6,674.00	90.07	315.40	4,361.10	1,984.87	-1,133.63	2,209.67	0.80	0.40	-0.70
6,766.00	90.34	315.99	4,360.77	2,050.70	-1,197.89	2,301.67	0.71	0.29	0.64
6,858.00	90.44	316.62	4,360.14	2,117.22	-1,261.44	2,393.65	0.69	0.11	0.68
6,951.00	90.71	316.28	4,359.21	2,184.62	-1,325.52	2,486.63	0.47	0.29	-0.37
7,043.00	90.77	314.90	4,358.02	2,250.33	-1,389.89	2,578.62	1.50	0.07	-1.50
7,135.00	90.81	314.11	4,356.75	2,314.82	-1,455.50	2,670.60	0.86	0.04	-0.86
7,227.00	90.54	313.70	4,355.67	2,378.61	-1,521.78	2,762.56	0.53	-0.29	-0.45
7,318.00	90.61	313.33	4,354.76	2,441.26	-1,587.77	2,853.51	0.41	0.08	-0.41
7,408.00	90.64	313.64	4,353.77	2,503.20	-1,653.06	2,943.45	0.35	0.03	0.34
7,501.00	88.92	314.79	4,354.13	2,568.05	-1,719.71	3,036.42	2.22	-1.85	1.24
7,593.00	88.89	315.06	4,355.89	2,633.00	-1,784.84	3,128.40	0.30	-0.03	0.29



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

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)
7,685.00	89.19	314.17	4,357.43	2,697.61	-1,850.32	3,220.38	1.02	0.33	-0.97
7,777.00	89.23	313.69	4,358.70	2,761.43	-1,916.57	3,312.34	0.52	0.04	-0.52
7,869.00	89.46	312.96	4,359.75	2,824.55	-1,983.49	3,404.27	0.83	0.25	-0.79
7,961.00	89.33	316.70	4,360.72	2,889.39	-2,048.72	3,496.24	4.07	-0.14	4.07
8,054.00	89.09	314.34	4,362.00	2,955.74	-2,113.88	3,589.22	2.55	-0.26	-2.54
8,144.00	89.19	317.34	4,363.36	3,020.29	-2,176.56	3,679.20	3.33	0.11	3.33
8,237.00	88.99	314.36	4,364.83	3,087.00	-2,241.32	3,772.18	3.21	-0.22	-3.20
8,329.00	89.87	318.10	4,365.75	3,153.42	-2,304.95	3,864.15	4.18	0.96	4.07
8,422.00	90.00	316.67	4,365.85	3,221.86	-2,367.92	3,957.09	1.54	0.14	-1.54
8,514.00	90.27	314.65	4,365.64	3,287.66	-2,432.21	4,049.08	2.22	0.29	-2.20
8,606.00	90.17	318.65	4,365.28	3,354.54	-2,495.35	4,141.04	4.35	-0.11	4.35
8,699.00	90.60	317.54	4,364.66	3,423.76	-2,557.47	4,233.94	1.28	0.46	-1.19
8,791.00	90.94	315.57	4,363.42	3,490.54	-2,620.72	4,325.91	2.17	0.37	-2.14
8,883.00	89.60	318.96	4,362.99	3,558.10	-2,683.14	4,417.85	3.96	-1.46	3.68
8,974.00	89.93	317.14	4,363.36	3,625.78	-2,743.97	4,508.75	2.03	0.36	-2.00
9,064.00	90.07	315.90	4,363.36	3,691.08	-2,805.90	4,598.73	1.39	0.16	-1.38
9,157.00	90.13	315.23	4,363.20	3,757.49	-2,871.01	4,691.73	0.72	0.06	-0.72
9,247.00	90.67	314.30	4,362.57	3,820.86	-2,934.90	4,781.72	1.19	0.60	-1.03
9,340.00	90.71	312.48	4,361.45	3,884.74	-3,002.48	4,874.65	1.96	0.04	-1.96
9,432.00	88.89	314.22	4,361.77	3,947.89	-3,069.37	4,966.58	2.74	-1.98	1.89
9,524.00	89.93	316.16	4,362.72	4,013.15	-3,134.20	5,058.57	2.39	1.13	2.11
9,616.00	89.29	315.27	4,363.35	4,079.01	-3,198.44	5,150.56	1.19	-0.70	-0.97
9,708.00	88.45	315.55	4,365.16	4,144.52	-3,263.01	5,242.55	0.96	-0.91	0.30
9,801.00	89.19	315.31	4,367.08	4,210.75	-3,328.26	5,335.53	0.84	0.80	-0.26
9,893.00	89.73	315.37	4,367.94	4,276.19	-3,392.93	5,427.52	0.59	0.59	0.07
9,984.00	87.92	315.54	4,369.81	4,341.03	-3,456.74	5,518.50	2.00	-1.99	0.19
10,075.00	88.18	314.78	4,372.91	4,405.52	-3,520.87	5,609.44	0.88	0.29	-0.84
10,165.00	88.49	312.59	4,375.52	4,467.65	-3,585.93	5,699.36	2.46	0.34	-2.43
10,255.00	89.26	317.64	4,377.29	4,531.38	-3,649.40	5,789.31	5.67	0.86	5.61
10,348.00	90.00	316.52	4,377.89	4,599.49	-3,712.73	5,882.27	1.44	0.80	-1.20
10,438.00	90.44	315.44	4,377.54	4,664.20	-3,775.27	5,972.26	1.30	0.49	-1.20
10,531.00	91.04	313.68	4,376.34	4,729.45	-3,841.53	6,065.24	2.00	0.65	-1.89
10,623.00	89.76	316.17	4,375.70	4,794.41	-3,906.66	6,157.22	3.04	-1.39	2.71
10,716.00	90.37	315.81	4,375.59	4,861.30	-3,971.27	6,250.22	0.76	0.66	-0.39
10,808.00	91.38	316.33	4,374.19	4,927.54	-4,035.09	6,342.20	1.23	1.10	0.57
10,900.00	89.13	315.87	4,373.78	4,993.83	-4,098.88	6,434.19	2.50	-2.45	-0.50
10,990.00	90.47	316.01	4,374.09	5,058.50	-4,161.46	6,524.18	1.50	1.49	0.16
11,083.00	88.35	316.01	4,375.05	5,125.41	-4,226.05	6,617.17	2.28	-2.28	0.00
11,174.00	88.86	314.51	4,377.27	5,190.02	-4,290.08	6,708.14	1.74	0.56	-1.65
11,266.00	89.23	314.64	4,378.80	5,254.58	-4,355.61	6,800.11	0.43	0.40	0.14
11,359.00	88.69	313.90	4,380.49	5,319.49	-4,422.19	6,893.08	0.98	-0.58	-0.80
11,449.00	88.82	318.04	4,382.45	5,384.17	-4,484.71	6,983.03	4.60	0.14	4.60
11,542.00	88.39	317.64	4,384.71	5,453.09	-4,547.12	7,075.92	0.63	-0.46	-0.43



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

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)
11,634.00	87.78	315.74	4,387.78	5,519.99	-4,610.19	7,167.84	2.17	-0.66	-2.07
11,726.00	89.70	318.18	4,389.81	5,587.21	-4,672.95	7,259.78	3.37	2.09	2.65
11,818.00	89.16	317.92	4,390.72	5,655.62	-4,734.45	7,351.68	0.65	-0.59	-0.28
11,911.00	88.55	317.81	4,392.58	5,724.58	-4,796.83	7,444.58	0.67	-0.66	-0.12
12,003.00	88.35	317.88	4,395.07	5,792.75	-4,858.55	7,536.46	0.23	-0.22	0.08
12,096.00	91.04	316.59	4,395.56	5,861.02	-4,921.69	7,629.40	3.21	2.89	-1.39
12,185.00	90.77	315.78	4,394.16	5,925.23	-4,983.30	7,718.38	0.96	-0.30	-0.91
12,276.00	90.94	315.43	4,392.80	5,990.25	-5,046.96	7,809.37	0.43	0.19	-0.38
12,368.00	90.97	314.49	4,391.27	6,055.25	-5,112.04	7,901.36	1.02	0.03	-1.02
12,460.00	91.34	314.81	4,389.41	6,119.89	-5,177.48	7,993.33	0.53	0.40	0.35
12,551.00	90.00	313.52	4,388.35	6,183.28	-5,242.75	8,084.30	2.04	-1.47	-1.42
12,643.00	89.80	312.67	4,388.51	6,246.14	-5,309.93	8,176.22	0.95	-0.22	-0.92
12,735.00	90.30	315.62	4,388.43	6,310.21	-5,375.94	8,268.18	3.25	0.54	3.21
12,827.00	89.23	313.65	4,388.81	6,374.84	-5,441.40	8,360.17	2.44	-1.16	-2.14
12,920.00	89.16	311.95	4,390.11	6,438.02	-5,509.63	8,453.06	1.83	-0.08	-1.83
13,012.00	89.83	314.81	4,390.92	6,501.20	-5,576.49	8,544.98	3.19	0.73	3.11
13,104.00	90.00	313.56	4,391.06	6,565.32	-5,642.46	8,636.96	1.37	0.18	-1.36
13,196.00	90.30	312.12	4,390.82	6,627.87	-5,709.92	8,728.86	1.60	0.33	-1.57
13,289.00	91.35	310.89	4,389.48	6,689.49	-5,779.55	8,821.63	1.74	1.13	-1.32
13,327.00	91.69	310.82	4,388.47	6,714.34	-5,808.29	8,859.50	0.92	0.90	-0.18
Frac sleeve @ 13327 MD 4388 TVD									
13,381.00	92.18	310.72	4,386.65	6,749.59	-5,849.16	8,913.28	0.92	0.90	-0.18
Survey @ 13381.00 MD 4386.65 TVD									
13,382.00	92.18	310.72	4,386.61	6,750.24	-5,849.92	8,914.28	0.00	0.00	0.00
330 FNL 1307 FEL 13382 MD 4387 TVD									
13,470.00	92.18	310.72	4,383.26	6,807.60	-5,916.56	9,001.92	0.00	0.00	0.00
Proj to 13470 MD 271 FNL 1347 FWL - Survey projected to 13470 MD 4383.26 TVD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
305.00	304.95	-4.12	-2.49	MWD surveys
4,465.00	4,245.79	432.94	412.94	POE Cms Top @ 4465 MD 4246 TVD
13,327.00	4,388.47	6,714.34	-5,808.29	Frac sleeve @ 13327 MD 4388 TVD
13,381.00	4,386.65	6,749.59	-5,849.16	Survey @ 13381.00 MD 4386.65 TVD
13,382.00	4,386.61	6,750.24	-5,849.92	330 FNL 1307 FEL 13382 MD 4387 TVD
13,470.00	4,383.26	6,807.60	-5,916.56	Proj to 13470 MD 271 FNL 1347 FWL
13,470.00	4,383.26	6,807.60	-5,916.56	Survey projected to 13470 MD 4383.26 TVD



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

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

Site		W Lybrook Unit			
Site Position:		Northing:	1,897,416.80 usft	Latitude:	36.21458500
From:	Lat/Long	Easting:	2,747,156.27 usft	Longitude:	-107.75175400
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.048 °

Well	W Lybrook Unit Well No. 768 H, Surf loc: 1846 FNL 749 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,897,416.80 usft	Latitude:	36.21458500
	+E/-W	0.00 ft	Easting:	2,747,156.27 usft	Longitude:	-107.75175400
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,737.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/28/2019	8.992	62.867	49,519.73302485

Design	Surveys Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	315.44	

Survey Program	Date	8/5/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
305.00	2,655.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,731.00	13,381.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
13,470.00	13,470.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,897,416.80	2,747,156.27	36.21458500	-107.75175400	
305.00	1.81	211.16	304.95	-4.12	-2.49	1,897,412.68	2,747,153.77	36.21457368	-107.75176247	
MWD surveys										
396.00	1.87	118.51	395.92	-6.06	-1.93	1,897,410.74	2,747,154.34	36.21456835	-107.75176057	
487.00	4.21	95.53	486.79	-7.09	2.70	1,897,409.71	2,747,158.97	36.21456551	-107.75174488	
578.00	7.03	88.58	577.34	-7.28	11.59	1,897,409.53	2,747,167.86	36.21456499	-107.75171473	
670.00	11.24	78.54	668.16	-5.35	26.02	1,897,411.45	2,747,182.28	36.21457023	-107.75166583	
762.00	14.56	73.20	757.83	-0.23	45.88	1,897,416.58	2,747,202.15	36.21458427	-107.75159847	
853.00	15.37	71.49	845.74	6.91	68.27	1,897,423.71	2,747,224.53	36.21460382	-107.75152256	
942.00	15.32	68.77	931.57	14.91	90.41	1,897,431.71	2,747,246.68	36.21462575	-107.75144747	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,033.00	14.96	74.14	1,019.42	22.47	112.92	1,897,439.28	2,747,269.18	36.21464647	-107.75137115
1,124.00	14.83	72.03	1,107.36	29.28	135.29	1,897,446.08	2,747,291.56	36.21466511	-107.75129528
1,217.00	15.27	70.41	1,197.17	37.05	158.15	1,897,453.86	2,747,314.42	36.21468642	-107.75121776
1,307.00	15.11	78.37	1,284.03	43.39	180.81	1,897,460.20	2,747,337.08	36.21470378	-107.75114094
1,399.00	14.47	77.15	1,372.99	48.37	203.76	1,897,465.17	2,747,360.03	36.21471739	-107.75106312
1,491.00	14.38	72.81	1,462.09	54.30	225.88	1,897,471.10	2,747,382.15	36.21473364	-107.75098811
1,584.00	15.21	78.67	1,552.01	60.11	248.88	1,897,476.91	2,747,405.14	36.21474955	-107.75091014
1,676.00	15.10	80.66	1,640.81	64.42	272.54	1,897,481.23	2,747,428.80	36.21476135	-107.75082992
1,769.00	14.30	73.92	1,730.77	69.57	295.53	1,897,486.38	2,747,451.79	36.21477543	-107.75075197
1,861.00	14.45	72.10	1,819.89	76.25	317.37	1,897,493.05	2,747,473.63	36.21479372	-107.75067791
1,952.00	14.79	74.96	1,907.95	82.75	339.39	1,897,499.56	2,747,495.66	36.21481154	-107.75060324
2,044.00	14.65	75.36	1,996.93	88.74	361.99	1,897,505.54	2,747,518.25	36.21482793	-107.75052662
2,137.00	14.52	75.60	2,086.93	94.61	384.66	1,897,511.42	2,747,540.92	36.21484401	-107.75044974
2,229.00	14.37	75.06	2,176.02	100.42	406.86	1,897,517.23	2,747,563.12	36.21485992	-107.75037447
2,320.00	14.34	75.02	2,264.18	106.25	428.65	1,897,523.05	2,747,584.92	36.21487587	-107.75030056
2,410.00	14.21	74.97	2,351.40	111.99	450.09	1,897,528.80	2,747,606.36	36.21489160	-107.75022787
2,502.00	13.87	75.78	2,440.65	117.63	471.68	1,897,534.43	2,747,627.95	36.21490704	-107.75015465
2,594.00	13.33	75.61	2,530.07	122.97	492.65	1,897,539.78	2,747,648.91	36.21492167	-107.75008357
2,655.00	13.07	76.87	2,589.46	126.29	506.18	1,897,543.09	2,747,662.44	36.21493074	-107.75003770
2,731.00	13.10	74.87	2,663.49	130.49	522.86	1,897,547.29	2,747,679.12	36.21494224	-107.74998113
2,822.00	12.09	72.51	2,752.30	136.04	541.90	1,897,552.85	2,747,698.17	36.21495746	-107.74991655
2,914.00	13.20	79.32	2,842.07	140.89	561.42	1,897,557.69	2,747,717.68	36.21497071	-107.74985039
3,006.00	12.03	79.33	2,931.85	144.61	581.16	1,897,561.41	2,747,737.43	36.21498089	-107.74978344
3,098.00	11.47	76.62	3,021.92	148.50	599.48	1,897,565.30	2,747,755.75	36.21499154	-107.74972132
3,190.00	8.89	72.56	3,112.47	152.75	615.17	1,897,569.55	2,747,771.43	36.21500317	-107.74966814
3,283.00	8.43	72.53	3,204.41	156.95	628.52	1,897,573.75	2,747,784.79	36.21501468	-107.74962285
3,373.00	5.82	72.52	3,293.70	160.30	639.17	1,897,577.10	2,747,795.44	36.21502386	-107.74958674
3,465.00	5.49	67.85	3,385.26	163.36	647.70	1,897,580.17	2,747,803.96	36.21503225	-107.74955783
3,558.00	3.87	86.43	3,477.95	165.23	654.95	1,897,582.04	2,747,811.22	36.21503738	-107.74953324
3,650.00	1.62	77.33	3,569.84	165.71	659.32	1,897,582.52	2,747,815.58	36.21503868	-107.74951843
3,742.00	0.44	48.38	3,661.82	166.23	660.85	1,897,583.04	2,747,817.12	36.21504011	-107.74951323
3,788.00	1.08	345.81	3,707.82	166.77	660.88	1,897,583.57	2,747,817.14	36.21504158	-107.74951314
3,833.00	7.05	320.94	3,752.68	169.33	659.03	1,897,586.13	2,747,815.30	36.21504861	-107.74951939
3,879.00	13.33	320.85	3,797.94	175.64	653.90	1,897,592.44	2,747,810.17	36.21505696	-107.74953677
3,925.00	18.01	319.42	3,842.21	185.16	645.92	1,897,601.96	2,747,802.19	36.21509213	-107.74956379
3,971.00	22.88	318.65	3,885.30	197.28	635.38	1,897,614.08	2,747,791.65	36.21512545	-107.74959948
4,016.00	27.46	316.76	3,926.02	211.41	622.49	1,897,628.22	2,747,778.75	36.21516431	-107.74964315
4,061.00	30.44	317.50	3,965.39	227.38	607.67	1,897,644.18	2,747,763.94	36.21520821	-107.74969332
4,108.00	30.59	316.46	4,005.88	244.82	591.39	1,897,661.63	2,747,747.66	36.21525617	-107.74974847
4,152.00	35.57	317.56	4,042.74	262.40	575.03	1,897,679.20	2,747,731.30	36.21530448	-107.74980387
4,198.00	40.50	317.58	4,078.96	283.31	555.92	1,897,700.11	2,747,712.18	36.21536198	-107.74986862
4,244.00	45.29	317.41	4,112.65	306.38	534.77	1,897,723.19	2,747,691.03	36.21542541	-107.74994025
4,290.00	48.53	316.25	4,144.07	330.87	511.78	1,897,747.68	2,747,668.05	36.21549274	-107.75001810
4,336.00	51.61	315.68	4,173.59	356.23	487.26	1,897,773.03	2,747,643.53	36.21556245	-107.75010115
4,381.00	55.48	316.44	4,200.33	382.29	462.16	1,897,799.09	2,747,618.42	36.21563410	-107.75018618
4,427.00	57.81	315.50	4,225.62	409.91	435.45	1,897,826.71	2,747,591.72	36.21571004	-107.75027664
4,465.00	58.07	315.81	4,245.79	432.94	412.94	1,897,849.74	2,747,569.21	36.21577336	-107.75035288
POE Cms Top @ 4465 MD 4246 TVD									
4,473.00	58.12	315.87	4,250.02	437.81	408.21	1,897,854.61	2,747,564.47	36.21578675	-107.75036891
4,517.00	63.46	314.87	4,271.48	465.12	381.23	1,897,881.93	2,747,537.50	36.21586185	-107.75046028
4,563.00	68.01	315.73	4,290.38	494.93	351.75	1,897,911.73	2,747,508.01	36.21594379	-107.75056015
4,607.00	73.25	317.61	4,304.97	525.12	323.28	1,897,941.92	2,747,479.55	36.21602679	-107.75065656
4,654.00	76.04	316.23	4,317.42	558.21	292.33	1,897,975.02	2,747,448.59	36.21611779	-107.75076140
4,700.00	79.35	316.53	4,327.22	590.75	261.33	1,898,007.55	2,747,417.59	36.21620723	-107.75086640
4,744.00	82.31	316.50	4,334.23	622.26	231.44	1,898,039.06	2,747,387.71	36.21629386	-107.75096764



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,836.00	85.42	316.98	4,344.06	688.87	168.76	1,898,105.67	2,747,325.03	36.21647699	-107.75117993
4,927.00	87.68	315.27	4,349.54	754.34	105.81	1,898,171.14	2,747,262.08	36.21665699	-107.75139315
5,019.00	87.65	314.91	4,353.29	819.44	40.91	1,898,236.24	2,747,197.18	36.21683598	-107.75161298
5,110.00	87.61	313.56	4,357.05	882.87	-24.23	1,898,299.67	2,747,132.04	36.21701037	-107.75183364
5,201.00	89.76	315.33	4,359.14	946.56	-89.18	1,898,363.37	2,747,067.09	36.21718550	-107.75205362
5,293.00	90.00	313.35	4,359.33	1,010.86	-154.97	1,898,427.66	2,747,001.30	36.21736228	-107.75227649
5,386.00	88.72	315.87	4,360.37	1,076.16	-221.17	1,898,492.96	2,746,935.10	36.21754182	-107.75250072
5,478.00	88.32	314.93	4,362.75	1,141.65	-285.74	1,898,558.45	2,746,870.53	36.21772186	-107.75271946
5,570.00	90.40	315.81	4,363.77	1,207.11	-350.37	1,898,623.91	2,746,805.90	36.21790184	-107.75293836
5,663.00	90.61	315.32	4,362.95	1,273.51	-415.47	1,898,690.32	2,746,740.80	36.21808440	-107.75315889
5,755.00	90.77	315.24	4,361.85	1,338.88	-480.20	1,898,755.68	2,746,676.06	36.21826412	-107.75337815
5,847.00	90.67	315.54	4,360.69	1,404.37	-544.81	1,898,821.17	2,746,611.46	36.21844417	-107.75359699
5,937.00	90.30	313.38	4,359.93	1,467.40	-609.04	1,898,884.20	2,746,547.23	36.21861747	-107.75381457
6,030.00	90.54	314.39	4,359.25	1,531.87	-676.06	1,898,948.67	2,746,480.21	36.21879471	-107.75404162
6,120.00	90.50	313.21	4,358.43	1,594.16	-741.02	1,899,010.96	2,746,415.25	36.21896597	-107.75426165
6,213.00	90.24	312.96	4,357.83	1,657.68	-808.94	1,899,074.48	2,746,347.33	36.21914063	-107.75449174
6,305.00	89.80	315.99	4,357.80	1,722.13	-874.58	1,899,138.93	2,746,281.69	36.21931782	-107.75471409
6,397.00	89.29	315.16	4,358.53	1,787.83	-938.97	1,899,204.63	2,746,217.30	36.21949845	-107.75493223
6,489.00	89.02	314.71	4,359.88	1,852.80	-1,004.09	1,899,269.60	2,746,152.18	36.21967708	-107.75515282
6,581.00	89.70	316.05	4,360.91	1,918.28	-1,068.71	1,899,335.08	2,746,087.56	36.21985709	-107.75537170
6,674.00	90.07	315.40	4,361.10	1,984.87	-1,133.63	1,899,401.67	2,746,022.64	36.22004016	-107.75559162
6,766.00	90.34	315.99	4,360.77	2,050.70	-1,197.89	1,899,467.50	2,745,958.38	36.22022116	-107.75580930
6,858.00	90.44	316.62	4,360.14	2,117.22	-1,261.44	1,899,534.02	2,745,894.83	36.22040403	-107.75602458
6,951.00	90.71	316.28	4,359.21	2,184.62	-1,325.52	1,899,601.42	2,745,830.75	36.22058932	-107.75624162
7,043.00	90.77	314.90	4,358.02	2,250.33	-1,389.89	1,899,667.13	2,745,766.38	36.22076998	-107.75645969
7,135.00	90.81	314.11	4,356.75	2,314.82	-1,455.50	1,899,731.62	2,745,700.77	36.22094726	-107.75668194
7,227.00	90.54	313.70	4,355.67	2,378.61	-1,521.78	1,899,795.41	2,745,634.49	36.22112266	-107.75690648
7,318.00	90.61	313.33	4,354.76	2,441.26	-1,587.77	1,899,858.07	2,745,568.50	36.22129492	-107.75713003
7,408.00	90.64	313.64	4,353.77	2,503.20	-1,653.06	1,899,920.00	2,745,503.21	36.22146519	-107.75735124
7,501.00	88.92	314.79	4,354.13	2,568.05	-1,719.71	1,899,984.85	2,745,436.56	36.22164348	-107.75757704
7,593.00	88.89	315.06	4,355.89	2,633.00	-1,784.84	1,900,049.80	2,745,371.43	36.22182206	-107.75779767
7,685.00	89.19	314.17	4,357.43	2,697.61	-1,850.32	1,900,114.41	2,745,305.95	36.22199967	-107.75801950
7,777.00	89.23	313.69	4,358.70	2,761.43	-1,916.57	1,900,178.23	2,745,239.70	36.22217514	-107.75824394
7,869.00	89.46	312.96	4,359.75	2,824.55	-1,983.49	1,900,241.35	2,745,172.78	36.22234868	-107.75847066
7,961.00	89.33	316.70	4,360.72	2,889.39	-2,048.72	1,900,306.19	2,745,107.55	36.22252695	-107.75869165
8,054.00	89.09	314.34	4,362.00	2,955.74	-2,113.88	1,900,372.54	2,745,042.40	36.22270934	-107.75891236
8,144.00	89.19	317.34	4,363.36	3,020.29	-2,176.56	1,900,437.09	2,744,979.71	36.22288680	-107.75912472
8,237.00	88.99	314.36	4,364.83	3,087.00	-2,241.32	1,900,503.80	2,744,914.95	36.22307020	-107.75934412
8,329.00	89.87	318.10	4,365.75	3,153.42	-2,304.95	1,900,570.22	2,744,851.32	36.22325280	-107.7595967
8,422.00	90.00	316.67	4,365.85	3,221.86	-2,367.92	1,900,638.66	2,744,788.36	36.22344093	-107.75977297
8,514.00	90.27	314.65	4,365.64	3,287.66	-2,432.21	1,900,704.46	2,744,724.06	36.22362181	-107.75999079
8,606.00	90.17	318.65	4,365.28	3,354.54	-2,495.35	1,900,771.34	2,744,660.92	36.22380569	-107.76020469
8,699.00	90.60	317.54	4,364.66	3,423.76	-2,557.47	1,900,840.55	2,744,598.81	36.22399595	-107.76041510
8,791.00	90.94	315.57	4,363.42	3,490.54	-2,620.72	1,900,907.34	2,744,535.55	36.22417954	-107.76062939
8,883.00	89.60	318.96	4,362.99	3,558.10	-2,683.14	1,900,974.90	2,744,473.13	36.22436527	-107.76084085
8,974.00	89.93	317.14	4,363.36	3,625.78	-2,743.97	1,901,042.58	2,744,412.30	36.22455131	-107.76104691
9,064.00	90.07	315.90	4,363.36	3,691.08	-2,805.90	1,901,107.88	2,744,350.37	36.22473083	-107.76125671
9,157.00	90.13	315.23	4,363.20	3,757.49	-2,871.01	1,901,174.29	2,744,285.27	36.22491338	-107.76147729
9,247.00	90.67	314.30	4,362.57	3,820.86	-2,934.90	1,901,237.66	2,744,221.37	36.22508761	-107.76169378
9,340.00	90.71	312.48	4,361.45	3,884.74	-3,002.48	1,901,301.54	2,744,153.79	36.22526323	-107.76192273
9,432.00	88.89	314.22	4,361.77	3,947.89	-3,069.37	1,901,364.69	2,744,086.90	36.22543684	-107.76214937
9,524.00	89.93	316.16	4,362.72	4,013.15	-3,134.20	1,901,429.95	2,744,022.07	36.22561625	-107.76236901
9,616.00	89.29	315.27	4,363.35	4,079.01	-3,198.44	1,901,495.81	2,743,957.84	36.22579730	-107.76258664
9,708.00	88.45	315.55	4,365.16	4,144.52	-3,263.01	1,901,561.31	2,743,893.26	36.22597737	-107.76280541
9,801.00	89.19	315.31	4,367.08	4,210.75	-3,328.26	1,901,627.55	2,743,828.01	36.22615946	-107.76302648



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 lt

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,893.00	89.73	315.37	4,367.94	4,276.19	-3,392.93	1,901,692.99	2,743,763.35	36.22633935	-107.76324556
9,984.00	87.92	315.54	4,369.81	4,341.03	-3,456.74	1,901,757.83	2,743,699.53	36.22651760	-107.76346178
10,075.00	88.18	314.78	4,372.91	4,405.52	-3,520.87	1,901,822.31	2,743,635.40	36.22669488	-107.76367905
10,165.00	88.49	312.59	4,375.52	4,467.65	-3,585.93	1,901,884.45	2,743,570.35	36.22686569	-107.76389946
10,255.00	89.26	317.64	4,377.29	4,531.38	-3,649.40	1,901,948.18	2,743,506.87	36.22704090	-107.76411453
10,348.00	90.00	316.52	4,377.89	4,599.49	-3,712.73	1,902,016.28	2,743,443.54	36.22722810	-107.76432909
10,438.00	90.44	315.44	4,377.54	4,664.20	-3,775.27	1,902,081.00	2,743,381.00	36.22740601	-107.76454098
10,531.00	91.04	313.68	4,376.34	4,729.45	-3,841.53	1,902,146.24	2,743,314.75	36.22758537	-107.76476546
10,623.00	89.76	316.17	4,375.70	4,794.41	-3,906.66	1,902,211.20	2,743,249.62	36.22776395	-107.76498614
10,716.00	90.37	315.81	4,375.59	4,861.30	-3,971.27	1,902,278.09	2,743,185.00	36.22794782	-107.76520506
10,808.00	91.38	316.33	4,374.19	4,927.54	-4,035.09	1,902,344.34	2,743,121.18	36.22812993	-107.76542129
10,900.00	89.13	315.87	4,373.78	4,993.83	-4,098.88	1,902,410.62	2,743,057.40	36.22831214	-107.76563741
10,990.00	90.47	316.01	4,374.09	5,058.50	-4,161.46	1,902,475.30	2,742,994.81	36.22848993	-107.76584946
11,083.00	88.35	316.01	4,375.05	5,125.41	-4,226.05	1,902,542.20	2,742,930.23	36.22867384	-107.76606828
11,174.00	88.86	314.51	4,377.27	5,190.02	-4,290.08	1,902,606.82	2,742,866.19	36.22885147	-107.76628524
11,266.00	89.23	314.64	4,378.80	5,254.58	-4,355.61	1,902,671.38	2,742,800.67	36.22902894	-107.76650726
11,359.00	88.69	313.90	4,380.49	5,319.49	-4,422.19	1,902,736.28	2,742,734.09	36.22920737	-107.76673286
11,449.00	88.82	318.04	4,382.45	5,384.17	-4,484.71	1,902,800.96	2,742,671.56	36.22938517	-107.76694471
11,542.00	88.39	317.64	4,384.71	5,453.09	-4,547.12	1,902,869.88	2,742,609.16	36.22957461	-107.76715614
11,634.00	87.78	315.74	4,387.78	5,519.99	-4,610.19	1,902,936.78	2,742,546.09	36.22975851	-107.76736983
11,726.00	89.70	318.18	4,389.81	5,587.21	-4,672.95	1,903,004.00	2,742,483.32	36.22994328	-107.76758250
11,818.00	89.16	317.92	4,390.72	5,655.62	-4,734.45	1,903,072.42	2,742,421.83	36.23013135	-107.76779085
11,911.00	88.55	317.81	4,392.58	5,724.58	-4,796.83	1,903,141.37	2,742,359.45	36.23032088	-107.76800220
12,003.00	88.35	317.88	4,395.07	5,792.75	-4,858.55	1,903,209.55	2,742,297.73	36.23050828	-107.76821133
12,096.00	91.04	316.59	4,395.56	5,861.02	-4,921.69	1,903,277.81	2,742,234.59	36.23069593	-107.76842526
12,185.00	90.77	315.78	4,394.16	5,925.23	-4,983.30	1,903,342.03	2,742,172.98	36.23087244	-107.76863401
12,276.00	90.94	315.43	4,392.80	5,990.25	-5,046.96	1,903,407.04	2,742,109.32	36.23105116	-107.76884970
12,368.00	90.97	314.49	4,391.27	6,055.25	-5,112.04	1,903,472.04	2,742,044.23	36.23122984	-107.76907026
12,460.00	91.34	314.81	4,389.41	6,119.89	-5,177.48	1,903,536.68	2,741,978.80	36.23140753	-107.76929199
12,551.00	90.00	313.52	4,388.35	6,183.28	-5,242.75	1,903,600.08	2,741,913.53	36.23158180	-107.76951316
12,643.00	89.80	312.67	4,388.51	6,246.14	-5,309.93	1,903,662.93	2,741,846.35	36.23175459	-107.76974081
12,735.00	90.30	315.62	4,388.43	6,310.21	-5,375.94	1,903,727.00	2,741,780.34	36.23193071	-107.76996449
12,827.00	89.23	313.65	4,388.81	6,374.84	-5,441.40	1,903,791.63	2,741,714.87	36.23210838	-107.77018632
12,920.00	89.16	311.95	4,390.11	6,438.02	-5,509.63	1,903,854.81	2,741,646.65	36.23228206	-107.77041752
13,012.00	89.83	314.81	4,390.92	6,501.20	-5,576.49	1,903,917.99	2,741,579.79	36.23245574	-107.77064408
13,104.00	90.00	313.56	4,391.06	6,565.32	-5,642.46	1,903,982.11	2,741,513.82	36.23263200	-107.77086763
13,196.00	90.30	312.12	4,390.82	6,627.87	-5,709.92	1,904,044.66	2,741,446.36	36.23280396	-107.77109623
13,289.00	91.35	310.89	4,389.48	6,689.49	-5,779.55	1,904,106.29	2,741,376.72	36.23297336	-107.77133222
13,327.00	91.69	310.82	4,388.47	6,714.34	-5,808.29	1,904,131.13	2,741,347.99	36.23304167	-107.77142959
Frac sleeve @ 13327 MD 4388 TVD									
13,381.00	92.18	310.72	4,386.65	6,749.59	-5,849.16	1,904,166.38	2,741,307.12	36.23313856	-107.77156811
Survey @ 13381.00 MD 4386.65 TVD									
13,382.00	92.18	310.72	4,386.61	6,750.24	-5,849.92	1,904,167.03	2,741,306.36	36.23314035	-107.77157068
330 FNL 1307 FEL 13382 MD 4387 TVD									
13,470.00	92.18	310.72	4,383.26	6,807.60	-5,916.56	1,904,224.40	2,741,239.72	36.23329806	-107.77179654
Proj to 13470 MD 271 FNL 1347 FWL - Survey projected to 13470 MD 4383.26 TVD									



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 768 H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Site:	W Lybrook Unit	MD Reference:	RKB=6737+28 @ 6765.00ft (Ensign 773)
Well:	W Lybrook Unit Well No. 768 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 It

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
305.00	304.95	-4.12	-2.49	MWD surveys
4,465.00	4,245.79	432.94	412.94	POE Cms Top @ 4465 MD 4246 TVD
13,327.00	4,388.47	6,714.34	-5,808.29	Frac sleeve @ 13327 MD 4388 TVD
13,381.00	4,386.65	6,749.59	-5,849.16	Survey @ 13381.00 MD 4386.65 TVD
13,382.00	4,386.61	6,750.24	-5,849.92	330 FNL 1307 FEL 13382 MD 4387 TVD
13,470.00	4,383.26	6,807.60	-5,916.56	Proj to 13470 MD 271 FNL 1347 FWL
13,470.00	4,383.26	6,807.60	-5,916.56	Survey projected to 13470 MD 4383.26 TVD

API	Unit	#	Fm Top Depth Type	Ojo Alamo	Kirtland	Fruitland	Pictured Cliffs	Cliff House	Menefee	Point Lookout	Mancos	Gallup
30045358910000	WEST LYBROOK UNIT	768H	Measured Depth	404	521	705	1086	2222	2620	3617	3761	4117
			TVD	404	521	702	1070	2169	2555	3537	3680	4013

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

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

COMMENTS

Action 21026

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
ENDURING RESOURCES, LLC 1050 17TH STREET, SUITE 2500 DENVER, CO80265			372286	21026	C-104C
Created By	Comment	Comment Date			
kpickford	KP GEO Review 3/19/2021	03/19/2021			
ahvermersch	Admin review completed; needs Geo Review.	03/18/2021			

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CONDITIONS

Action 21026

CONDITIONS OF APPROVAL

Operator:	ENDURING RESOURCES, LLC	1050 17TH STREET, SUITE 2500	DENVER, CO80265	OGRID:	372286	Action Number:	21026	Action Type:	C-104C
OCD Reviewer	Condition								
ahvermersch	None								