

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-045-35892	⁵ Pool Name LYBROOK MANCOS W		⁶ Pool Code 98157
⁷ Property Code 321259	⁸ Property Name W LYBROOK UNIT		⁹ Well Number 769H

II. ¹⁰ Surface Location

²⁵ H	Section 23	Township 23N	Range 9W	Lot Idn	Feet from the 1881'	North/South Line North	Feet from the 730'	East/West line East	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. B	Section 15	Township 23N	Range 9W	Lot Idn	Feet from the 360'	North/South line North	Feet from the 2,095'	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

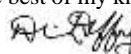
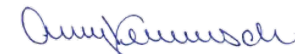
¹⁸ Transporter OGRID 372286	¹⁹ Transporter Name and Address Enduring Resources IV, LLC		²⁰ O/G/W O

IV. Well Completion Data

²¹ Spud Date 5/7/19	²² Ready Date ~3/20/2021	²³ TD 4769' TVD, 14870' MD	²⁴ PBDT 4774' TVD, 14678' MD	²⁵ Perforations 4629' - 4774' TVD 4840' - 14638' MD	²⁶ DHC, MC R-14051
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17-1/2"		13-3/8", 54.5#, J-55		258' MD	315 sx - surface
12-1/4"		9-5/8", 36#, J-55		2681.0' MD	750 sx - surface
8-1/2"		5-1/2", 17#, P-110		14800' MD	2560 sx - surface

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION Approved by: 	
Printed name: Deidre Duffy		Title: Data Compliance Manager	
Title: Senior Ecologist		Approval Date: 3/17/21	
E-mail Address: Deidre.duffy@wsp.com			
Date: 2/18/2021	Phone: 808-352-0200		

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

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

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

¹ API Number 30-045-35892		² Pool Code 98157	³ Pool Name LYBROOK MANCOS W
⁴ Property Code 321259	⁵ Property Name W LYBROOK UNIT		⁶ Well Number 769H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC		⁹ Elevation 6737'

¹⁰ Surface Location

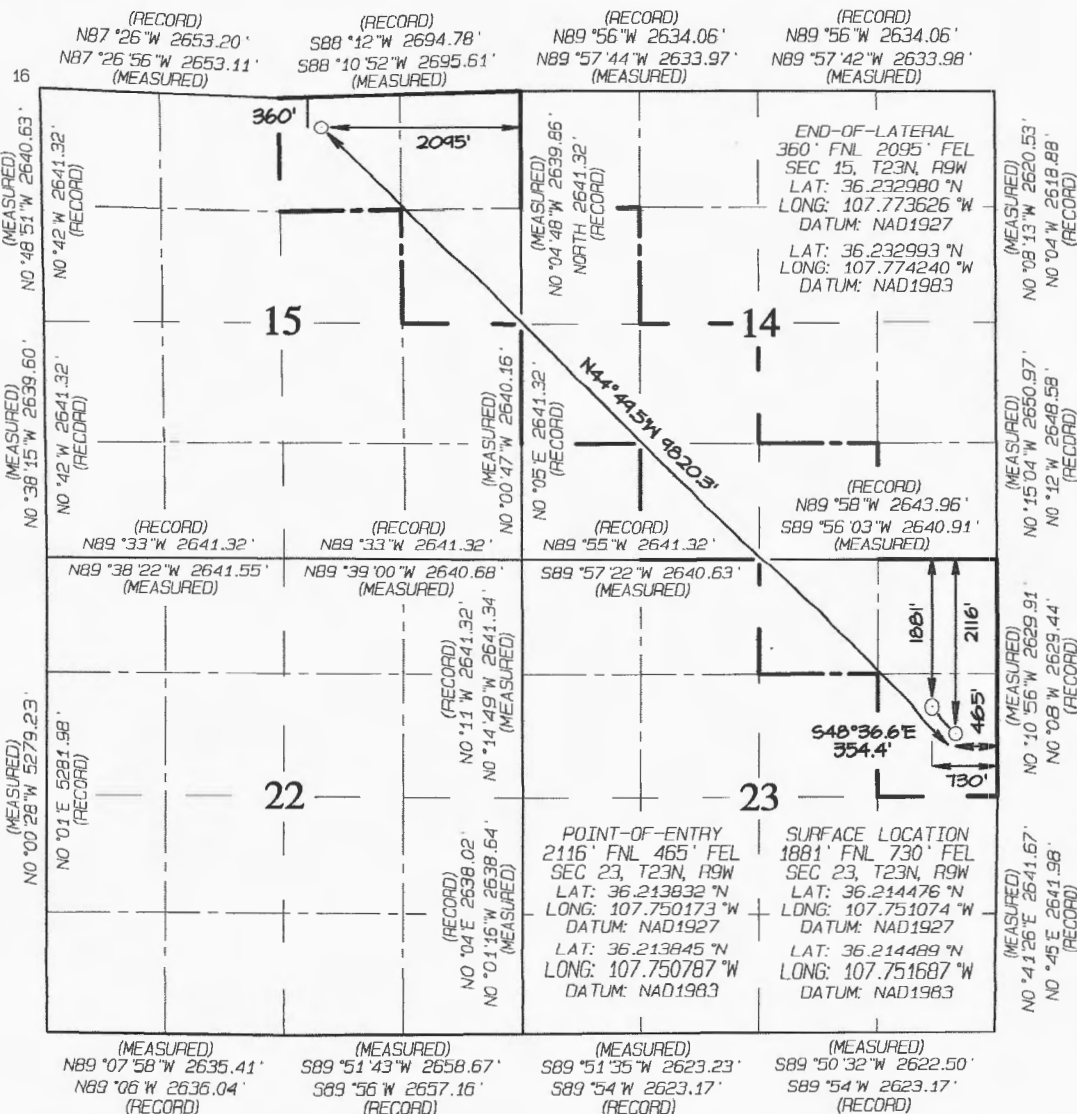
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	23	23N	9W		1881	NORTH	730	EAST	SAN JUAN

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
B	15	23N	9W		360	NORTH	2095	EAST	SAN JUAN

¹² Dedicated Acres 440.0	SW/4 SE/4, SE/4 SW/4 N/2 SW/4, SW/4 NW/4 - Section 14 E/2 NE/4, NW/4 NE/4 - Section 15 SE/4 NE/4, N/2 NE/4 - Section 23	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14051 - 12,807.24 Acres
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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

Heather Huntington 2/18/21
Signature Date
Heather Huntington
Printed Name
hhuntington@enduringresources.com
E-mail Address

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

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

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269



Well: W Lybrook Unit Well No. 769 H
Site: W Lybrook Unit
Project: San Juan County, New Mexico NAD83 NM W
Design: Surveys Original Hole
Rig: Ensign 773

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N-S	+E-W	V Sect	Annotation
305.00	1.05	67.84	304.98	1.05	2.59	-1.07	MWD surveys
4837.00	59.41	316.24	4627.54	-234.29	265.77	-353.47	POE G top @ 4837 MD 4628 TVD
14678.00	90.79	314.56	4774.50	6730.90	-6657.01	9466.83	Frac Sleeve @ 14678 MD 4775 TVD
14718.00	91.08	314.57	4773.85	6758.97	-6685.51	9506.82	330 FNL 567 FWL @ 14718 MD 4774 TVD
14817.00	91.92	313.78	4771.30	6828.13	-6756.29	9605.77	Survey @ 14817.00 MD 4771.30 TVD
14870.00	91.92	313.78	4769.52	6864.78	-6794.54	9658.72	Survey proj. to 14870 MD 4769.52 TVD 221 FNL 460 FWL

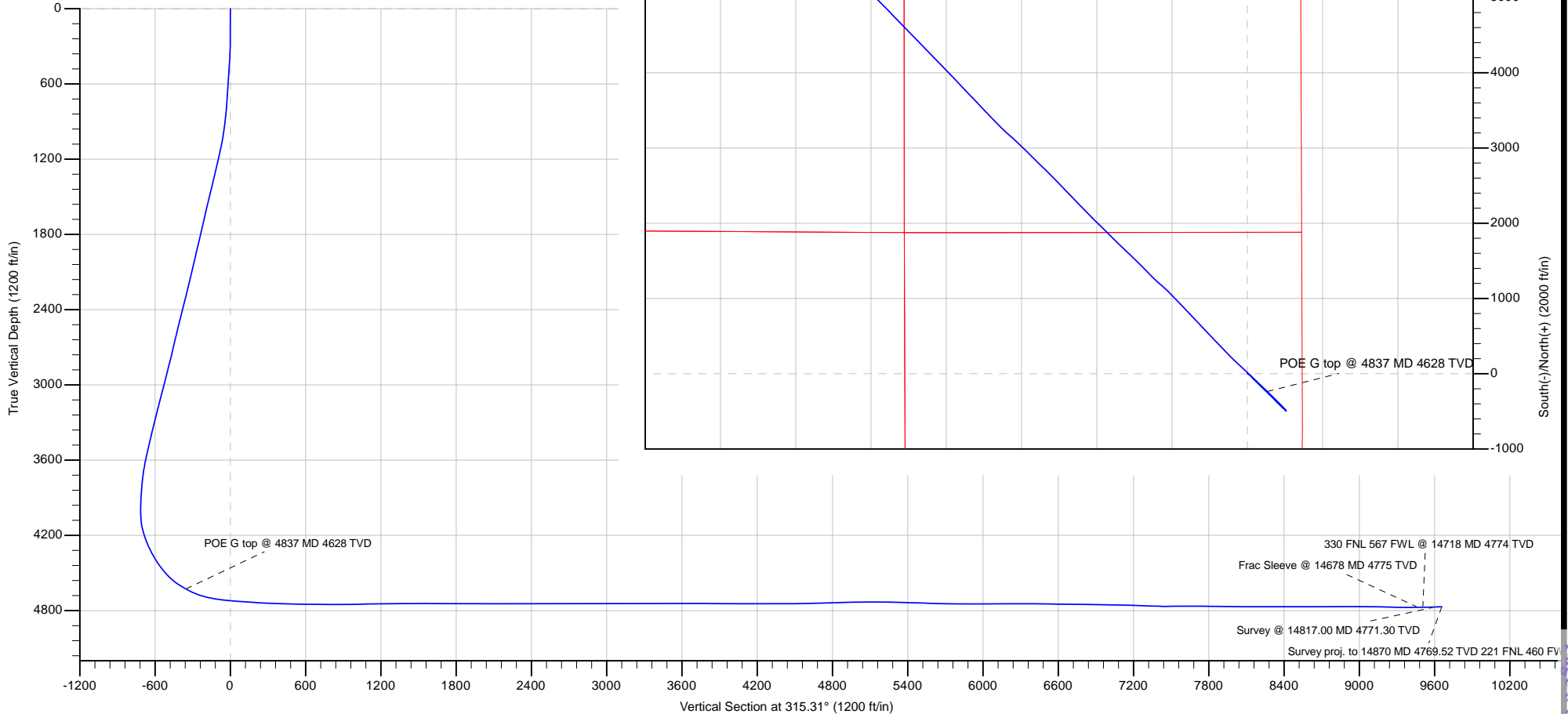
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone
 System Datum: Mean Sea Level
 Depth Reference: RKB=6737+28 @ 6765.00ft (Ensign 773)
 Northing Easting Latitude Longitude
 1897381.87 2747176.06 36.21448900 -107.75168700
 Total 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





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 ft

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. 769 H, Surf loc: 1881 FNL 730 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,897,381.88 usft	Latitude:	36.21448900
	+E/-W	0.00 ft	Easting:	2,747,176.06 usft	Longitude:	-107.75168700
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	49,519.68747305

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	315.31	

Survey Program	Date	8/5/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
305.00	2,594.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,641.00	14,817.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,870.00	14,870.00	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	0.00
305.00	1.05	67.84	304.98	1.05	2.59	-1.07	0.34	0.34	0.00	
MWD surveys										
396.00	3.39	112.60	395.91	0.33	5.84	-3.87	3.02	2.57	49.19	
487.00	4.27	116.88	486.71	-2.23	11.35	-9.57	1.02	0.97	4.70	
578.00	4.06	119.55	577.47	-5.35	17.17	-15.88	0.31	-0.23	2.93	
670.00	3.87	120.08	669.25	-8.51	22.69	-22.01	0.21	-0.21	0.58	
761.00	4.08	135.86	760.03	-12.38	27.61	-28.21	1.22	0.23	17.34	
852.00	5.70	135.49	850.70	-17.92	33.03	-35.97	1.78	1.78	-0.41	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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	7.69	134.56	940.08	-25.34	40.45	-46.46	2.21	2.21	-1.03	
1,033.00	9.58	133.88	1,030.04	-34.86	50.25	-60.12	2.08	2.08	-0.75	
1,124.00	11.60	136.10	1,119.49	-46.70	62.05	-76.84	2.26	2.22	2.44	
1,216.00	13.82	136.79	1,209.23	-61.38	75.99	-97.08	2.42	2.41	0.75	
1,307.00	13.97	135.95	1,297.57	-77.19	91.07	-118.93	0.28	0.16	-0.92	
1,398.00	13.29	135.37	1,386.00	-92.53	106.06	-140.37	0.76	-0.75	-0.64	
1,491.00	12.91	135.15	1,476.58	-107.50	120.89	-161.45	0.41	-0.41	-0.24	
1,583.00	12.88	133.67	1,566.26	-121.87	135.56	-181.97	0.36	-0.03	-1.61	
1,676.00	12.80	133.74	1,656.94	-136.15	150.50	-202.63	0.09	-0.09	0.08	
1,768.00	13.34	133.48	1,746.55	-150.50	165.56	-223.43	0.59	0.59	-0.28	
1,861.00	13.37	134.38	1,837.04	-165.40	181.03	-244.90	0.23	0.03	0.97	
1,951.00	13.33	134.12	1,924.61	-179.90	195.92	-265.68	0.08	-0.04	-0.29	
2,044.00	13.14	134.20	2,015.14	-194.74	211.19	-286.97	0.21	-0.20	0.09	
2,136.00	12.90	135.20	2,104.77	-209.31	225.93	-307.69	0.36	-0.26	1.09	
2,229.00	13.98	133.66	2,195.22	-224.44	241.37	-329.30	1.22	1.16	-1.66	
2,319.00	14.36	133.73	2,282.49	-239.66	257.30	-351.33	0.42	0.42	0.08	
2,410.00	14.22	133.72	2,370.67	-255.18	273.53	-373.78	0.15	-0.15	-0.01	
2,502.00	14.00	134.57	2,459.89	-270.80	289.63	-396.20	0.33	-0.24	0.92	
2,594.00	13.60	134.31	2,549.24	-286.17	305.29	-418.15	0.44	-0.43	-0.28	
2,641.00	13.23	135.22	2,594.96	-293.84	313.04	-429.05	0.91	-0.79	1.94	
2,735.00	12.73	132.81	2,686.56	-308.52	328.21	-450.15	0.78	-0.53	-2.56	
2,826.00	14.47	136.71	2,775.00	-323.61	343.36	-471.54	2.16	1.91	4.29	
2,918.00	14.23	136.46	2,864.13	-340.17	359.03	-494.33	0.27	-0.26	-0.27	
3,010.00	13.45	136.47	2,953.46	-356.12	374.19	-516.34	0.85	-0.85	0.01	
3,102.00	15.07	135.67	3,042.62	-372.44	389.92	-538.99	1.77	1.76	-0.87	
3,194.00	14.78	135.20	3,131.52	-389.32	406.55	-562.69	0.34	-0.32	-0.51	
3,287.00	14.37	135.44	3,221.53	-405.96	423.00	-586.09	0.45	-0.44	0.26	
3,377.00	13.78	133.89	3,308.82	-421.35	438.56	-607.98	0.78	-0.66	-1.72	
3,469.00	13.37	132.97	3,398.25	-436.20	454.24	-629.56	0.50	-0.45	-1.00	
3,562.00	12.54	132.81	3,488.89	-450.39	469.52	-650.39	0.89	-0.89	-0.17	
3,654.00	12.59	131.02	3,578.68	-463.75	484.41	-670.37	0.43	0.05	-1.95	
3,746.00	9.45	132.45	3,668.97	-475.44	497.55	-687.91	3.43	-3.41	1.55	
3,837.00	6.40	136.22	3,759.10	-484.14	506.58	-700.45	3.40	-3.35	4.14	
3,929.00	4.16	133.58	3,850.70	-490.15	512.54	-708.91	2.45	-2.43	-2.87	
4,020.00	1.97	121.02	3,941.56	-493.23	516.27	-713.73	2.50	-2.41	-13.80	
4,112.00	0.77	2.63	4,033.55	-493.42	517.66	-714.84	2.64	-1.30	-128.68	
4,156.00	5.89	326.33	4,077.46	-491.25	516.42	-712.42	12.02	11.64	-82.50	
4,202.00	11.03	325.41	4,122.94	-485.66	512.61	-705.77	11.18	11.17	-2.00	
4,248.00	14.96	325.65	4,167.76	-477.13	506.76	-695.59	8.54	8.54	0.52	
4,294.00	18.67	320.06	4,211.79	-466.58	498.68	-682.41	8.79	8.07	-12.15	
4,340.00	21.97	316.25	4,254.92	-454.71	488.00	-666.46	7.73	7.17	-8.28	
4,385.00	25.32	316.28	4,296.14	-441.68	475.52	-648.42	7.44	7.44	0.07	
4,431.00	28.40	316.36	4,337.17	-426.65	461.17	-627.64	6.70	6.70	0.17	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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)	
4,477.00	30.43	314.38	4,377.24	-410.58	445.29	-605.05	4.89	4.41	-4.30	
4,521.00	32.76	313.97	4,414.71	-394.52	428.76	-582.01	5.32	5.30	-0.93	
4,567.00	36.23	314.76	4,452.62	-376.30	410.14	-555.96	7.61	7.54	1.72	
4,612.00	40.26	314.38	4,487.95	-356.76	390.30	-528.12	8.97	8.96	-0.84	
4,658.00	44.33	313.53	4,521.97	-335.28	368.02	-497.18	8.93	8.85	-1.85	
4,704.00	49.44	313.82	4,553.40	-312.10	343.74	-463.62	11.12	11.11	0.63	
4,748.00	54.48	314.43	4,580.51	-287.98	318.88	-428.99	11.51	11.45	1.39	
4,794.00	59.31	315.30	4,605.62	-260.80	291.58	-390.47	10.62	10.50	1.89	
4,837.00	59.41	316.24	4,627.54	-234.29	265.77	-353.47	1.90	0.24	2.20	
POE G top @ 4837 MD 4628 TVD										
4,840.00	59.42	316.31	4,629.06	-232.42	263.99	-350.89	1.90	0.25	2.19	
4,887.00	63.83	315.25	4,651.39	-202.80	235.15	-309.55	9.59	9.38	-2.26	
4,931.00	68.66	312.67	4,669.12	-174.87	206.16	-269.30	12.22	10.98	-5.86	
4,977.00	74.10	312.35	4,683.80	-145.42	174.04	-225.78	11.84	11.83	-0.70	
5,023.00	77.93	312.61	4,694.91	-115.28	141.13	-181.21	8.34	8.33	0.57	
5,068.00	78.97	312.21	4,703.92	-85.55	108.57	-137.17	2.47	2.31	-0.89	
5,114.00	81.50	313.30	4,711.72	-54.77	75.29	-91.89	5.98	5.50	2.37	
5,159.00	84.81	314.39	4,717.09	-23.83	43.07	-47.23	7.74	7.36	2.42	
5,205.00	85.02	314.04	4,721.16	8.12	10.23	-1.42	0.88	0.46	-0.76	
5,298.00	85.63	313.52	4,728.74	72.25	-56.69	91.23	0.86	0.66	-0.56	
5,390.00	85.66	311.99	4,735.73	134.53	-124.04	182.87	1.66	0.03	-1.66	
5,482.00	87.78	314.69	4,740.99	197.56	-190.83	274.66	3.73	2.30	2.93	
5,575.00	88.35	316.81	4,744.14	264.13	-255.69	367.59	2.36	0.61	2.28	
5,667.00	88.08	314.14	4,747.00	329.69	-320.16	459.54	2.92	-0.29	-2.90	
5,759.00	89.63	317.34	4,748.84	395.55	-384.35	551.51	3.86	1.68	3.48	
5,851.00	89.23	315.91	4,749.76	462.42	-447.52	643.47	1.61	-0.43	-1.55	
5,941.00	89.06	317.54	4,751.10	527.94	-509.21	733.43	1.82	-0.19	1.81	
6,034.00	90.57	315.77	4,751.40	595.56	-573.04	826.40	2.50	1.62	-1.90	
6,124.00	89.70	317.15	4,751.19	660.80	-635.03	916.38	1.81	-0.97	1.53	
6,217.00	91.48	316.69	4,750.23	728.72	-698.55	1,009.33	1.98	1.91	-0.49	
6,309.00	91.14	315.73	4,748.13	795.12	-762.20	1,101.30	1.11	-0.37	-1.04	
6,401.00	90.77	316.36	4,746.59	861.34	-826.04	1,193.28	0.79	-0.40	0.68	
6,493.00	90.64	315.86	4,745.46	927.63	-889.82	1,285.26	0.56	-0.14	-0.54	
6,585.00	90.57	315.99	4,744.49	993.72	-953.81	1,377.25	0.16	-0.08	0.14	
6,678.00	90.34	316.96	4,743.75	1,061.15	-1,017.86	1,470.23	1.07	-0.25	1.04	
6,770.00	89.87	312.40	4,743.58	1,125.83	-1,083.25	1,562.20	4.98	-0.51	-4.96	
6,862.00	88.79	310.01	4,744.66	1,186.42	-1,152.46	1,653.95	2.85	-1.17	-2.60	
6,955.00	89.39	313.94	4,746.14	1,248.60	-1,221.58	1,746.76	4.27	0.65	4.23	
7,047.00	89.93	315.13	4,746.68	1,313.12	-1,287.15	1,838.75	1.42	0.59	1.29	
7,139.00	90.77	316.45	4,746.12	1,379.06	-1,351.30	1,930.74	1.70	0.91	1.43	
7,232.00	90.40	314.86	4,745.17	1,445.57	-1,416.30	2,023.73	1.76	-0.40	-1.71	
7,322.00	89.70	313.77	4,745.09	1,508.44	-1,480.70	2,113.71	1.44	-0.78	-1.21	
7,412.00	90.57	314.92	4,744.88	1,571.35	-1,545.06	2,203.70	1.60	0.97	1.28	
7,505.00	89.50	312.20	4,744.82	1,635.43	-1,612.44	2,296.64	3.14	-1.15	-2.92	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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)	
7,597.00	90.07	314.69	4,745.17	1,698.68	-1,679.23	2,388.59	2.78	0.62	2.71	
7,689.00	90.00	315.10	4,745.11	1,763.62	-1,744.40	2,480.58	0.45	-0.08	0.45	
7,781.00	89.90	313.11	4,745.19	1,827.65	-1,810.46	2,572.56	2.17	-0.11	-2.16	
7,873.00	90.94	315.76	4,744.52	1,892.05	-1,876.15	2,664.54	3.09	1.13	2.88	
7,966.00	89.26	312.77	4,744.35	1,956.95	-1,942.74	2,757.51	3.69	-1.81	-3.22	
8,058.00	90.54	316.31	4,744.52	2,021.47	-2,008.30	2,849.48	4.09	1.39	3.85	
8,148.00	89.39	314.19	4,744.57	2,085.38	-2,071.65	2,939.48	2.68	-1.28	-2.36	
8,241.00	90.30	316.02	4,744.82	2,151.26	-2,137.29	3,032.47	2.20	0.98	1.97	
8,333.00	89.83	316.54	4,744.72	2,217.75	-2,200.88	3,124.46	0.76	-0.51	0.57	
8,426.00	90.07	315.77	4,744.80	2,284.82	-2,265.30	3,217.45	0.87	0.26	-0.83	
8,518.00	90.00	316.32	4,744.74	2,351.05	-2,329.15	3,309.44	0.60	-0.08	0.60	
8,610.00	89.70	313.79	4,744.98	2,416.16	-2,394.14	3,401.43	2.77	-0.33	-2.75	
8,703.00	90.91	317.43	4,744.49	2,482.60	-2,459.18	3,494.41	4.12	1.30	3.91	
8,795.00	90.17	317.07	4,743.62	2,550.16	-2,521.63	3,586.35	0.89	-0.80	-0.39	
8,888.00	90.64	314.92	4,742.96	2,617.04	-2,586.23	3,679.34	2.37	0.51	-2.31	
8,978.00	89.60	314.87	4,742.78	2,680.57	-2,649.99	3,769.33	1.16	-1.16	-0.06	
9,068.00	88.28	312.84	4,744.44	2,742.91	-2,714.87	3,859.28	2.69	-1.47	-2.26	
9,161.00	90.00	315.16	4,745.84	2,807.49	-2,781.75	3,952.24	3.11	1.85	2.49	
9,251.00	90.34	315.00	4,745.57	2,871.22	-2,845.30	4,042.24	0.42	0.38	-0.18	
9,344.00	90.44	314.86	4,744.94	2,936.90	-2,911.14	4,135.23	0.18	0.11	-0.15	
9,436.00	88.82	313.18	4,745.53	3,000.83	-2,977.30	4,227.20	2.54	-1.76	-1.83	
9,528.00	91.01	314.71	4,745.67	3,064.67	-3,043.53	4,319.16	2.90	2.38	1.66	
9,620.00	88.86	310.75	4,745.77	3,127.08	-3,111.09	4,411.05	4.90	-2.34	-4.30	
9,713.00	90.97	311.70	4,745.91	3,188.36	-3,181.03	4,503.81	2.49	2.27	1.02	
9,805.00	91.38	315.88	4,744.02	3,252.00	-3,247.42	4,595.73	4.56	0.45	4.54	
9,897.00	92.12	315.11	4,741.21	3,317.58	-3,311.88	4,687.69	1.16	0.80	-0.84	
9,988.00	92.35	314.13	4,737.66	3,381.45	-3,376.60	4,778.61	1.11	0.25	-1.08	
10,079.00	90.98	317.19	4,735.02	3,446.50	-3,440.16	4,869.56	3.68	-1.51	3.36	
10,169.00	90.71	316.41	4,733.69	3,512.10	-3,501.77	4,959.52	0.92	-0.30	-0.87	
10,259.00	90.84	317.00	4,732.47	3,577.60	-3,563.48	5,049.48	0.67	0.14	0.66	
10,352.00	90.10	316.87	4,731.71	3,645.54	-3,626.98	5,142.44	0.81	-0.80	-0.14	
10,442.00	88.82	313.53	4,732.56	3,709.39	-3,690.38	5,232.42	3.97	-1.42	-3.71	
10,535.00	88.89	318.27	4,734.42	3,776.14	-3,755.07	5,325.37	5.10	0.08	5.10	
10,627.00	88.25	317.37	4,736.72	3,844.29	-3,816.82	5,417.25	1.20	-0.70	-0.98	
10,720.00	87.98	316.53	4,739.77	3,912.22	-3,880.27	5,510.16	0.95	-0.29	-0.90	
10,812.00	88.25	316.11	4,742.80	3,978.71	-3,943.78	5,602.10	0.54	0.29	-0.46	
10,904.00	88.32	315.12	4,745.55	4,044.43	-4,008.10	5,694.06	1.08	0.08	-1.08	
10,994.00	89.23	315.07	4,747.48	4,108.16	-4,071.62	5,784.03	1.01	1.01	-0.06	
11,087.00	90.00	316.98	4,748.10	4,175.08	-4,136.19	5,877.02	2.21	0.83	2.05	
11,179.00	90.54	315.85	4,747.67	4,241.72	-4,199.61	5,969.00	1.36	0.59	-1.23	
11,271.00	91.08	314.34	4,746.37	4,306.88	-4,264.55	6,060.99	1.74	0.59	-1.64	
11,363.00	89.66	316.45	4,745.77	4,372.37	-4,329.15	6,152.98	2.76	-1.54	2.29	
11,454.00	90.50	316.58	4,745.65	4,438.39	-4,391.77	6,243.96	0.93	0.92	0.14	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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)	
11,546.00	88.82	316.32	4,746.19	4,505.07	-4,455.15	6,335.93	1.85	-1.83	-0.28	
11,639.00	89.39	316.34	4,747.65	4,572.33	-4,519.36	6,428.91	0.61	0.61	0.02	
11,731.00	89.76	315.44	4,748.33	4,638.38	-4,583.40	6,520.90	1.06	0.40	-0.98	
11,823.00	90.00	314.26	4,748.52	4,703.27	-4,648.62	6,612.89	1.31	0.26	-1.28	
11,915.00	88.86	316.68	4,749.44	4,768.84	-4,713.13	6,704.88	2.91	-1.24	2.63	
12,008.00	89.26	316.63	4,750.96	4,836.47	-4,776.95	6,797.84	0.43	0.43	-0.05	
12,100.00	88.79	315.05	4,752.53	4,902.45	-4,841.03	6,889.82	1.79	-0.51	-1.72	
12,190.00	89.19	315.56	4,754.11	4,966.42	-4,904.32	6,979.81	0.72	0.44	0.57	
12,280.00	89.33	314.75	4,755.28	5,030.23	-4,967.79	7,069.80	0.91	0.16	-0.90	
12,372.00	88.22	315.99	4,757.24	5,095.68	-5,032.40	7,161.77	1.81	-1.21	1.35	
12,465.00	87.78	316.60	4,760.49	5,162.87	-5,096.62	7,254.70	0.81	-0.47	0.66	
12,555.00	87.68	315.25	4,764.05	5,227.48	-5,159.17	7,344.62	1.50	-0.11	-1.50	
12,648.00	89.39	313.14	4,766.43	5,292.28	-5,225.82	7,437.57	2.92	1.84	-2.27	
12,740.00	90.67	316.29	4,766.38	5,357.00	-5,291.19	7,529.55	3.70	1.39	3.42	
12,832.00	90.74	316.37	4,765.25	5,423.54	-5,354.71	7,621.53	0.12	0.08	0.09	
12,924.00	89.66	314.38	4,764.93	5,489.02	-5,419.33	7,713.52	2.46	-1.17	-2.16	
13,017.00	88.89	311.07	4,766.11	5,552.10	-5,487.64	7,806.41	3.65	-0.83	-3.56	
13,109.00	88.99	314.98	4,767.81	5,614.85	-5,554.87	7,898.30	4.25	0.11	4.25	
13,201.00	89.53	314.45	4,769.00	5,679.57	-5,620.24	7,990.29	0.82	0.59	-0.58	
13,293.00	90.07	314.72	4,769.32	5,744.15	-5,685.76	8,082.28	0.66	0.59	0.29	
13,385.00	90.67	313.54	4,768.73	5,808.21	-5,751.80	8,174.25	1.44	0.65	-1.28	
13,477.00	88.99	315.05	4,769.00	5,872.45	-5,817.64	8,266.23	2.46	-1.83	1.64	
13,568.00	89.80	316.47	4,769.96	5,937.64	-5,881.12	8,357.22	1.80	0.89	1.56	
13,660.00	90.30	314.44	4,769.88	6,003.21	-5,945.65	8,449.22	2.27	0.54	-2.21	
13,753.00	89.60	318.63	4,769.96	6,070.69	-6,009.61	8,542.17	4.57	-0.75	4.51	
13,843.00	90.10	317.82	4,770.20	6,137.81	-6,069.57	8,632.06	1.06	0.56	-0.90	
13,934.00	90.94	317.02	4,769.37	6,204.81	-6,131.14	8,722.99	1.27	0.92	-0.88	
14,026.00	91.38	315.27	4,767.51	6,271.14	-6,194.87	8,814.96	1.96	0.48	-1.90	
14,116.00	88.79	315.70	4,767.37	6,335.31	-6,257.96	8,904.95	2.92	-2.88	0.48	
14,208.00	89.26	314.73	4,768.94	6,400.59	-6,322.76	8,996.93	1.17	0.51	-1.05	
14,298.00	90.07	314.16	4,769.47	6,463.61	-6,387.01	9,086.92	1.10	0.90	-0.63	
14,390.00	88.12	315.18	4,770.92	6,528.28	-6,452.42	9,178.90	2.39	-2.12	1.11	
14,483.00	88.65	314.43	4,773.54	6,593.79	-6,518.38	9,271.86	0.99	0.57	-0.81	
14,575.00	89.63	314.89	4,774.92	6,658.45	-6,583.81	9,363.84	1.18	1.07	0.50	
14,667.00	90.71	314.56	4,774.65	6,723.19	-6,649.18	9,455.83	1.23	1.17	-0.36	
14,678.00	90.79	314.56	4,774.50	6,730.90	-6,657.01	9,466.83	0.73	0.73	0.01	
Frac Sleeve @ 14678 MD 4775 TVD										
14,718.00	91.08	314.57	4,773.85	6,758.97	-6,685.51	9,506.82	0.73	0.73	0.01	
330 FNL 567 FWL @ 14718 MD 4774 TVD										
14,759.00	91.38	314.57	4,772.97	6,787.73	-6,714.71	9,547.81	0.73	0.73	0.01	
14,817.00	91.92	313.78	4,771.30	6,828.13	-6,756.29	9,605.77	1.65	0.93	-1.36	
Survey @ 14817.00 MD 4771.30 TVD										
14,870.00	91.92	313.78	4,769.52	6,864.78	-6,794.54	9,658.72	0.00	0.00	0.00	
Survey proj. to 14870 MD 4769.52 TVD 221 FNL 460 FWL										



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14 It

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)

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
305.00	304.98	1.05	2.59	MWD surveys	
4,837.00	4,627.54	-234.29	265.77	POE G top @ 4837 MD 4628 TVD	
14,678.00	4,774.50	6,730.90	-6,657.01	Frac Sleeve @ 14678 MD 4775 TVD	
14,718.00	4,773.85	6,758.97	-6,685.51	330 FNL 567 FWL @ 14718 MD 4774 TVD	
14,817.00	4,771.30	6,828.13	-6,756.29	Survey @ 14817.00 MD 4771.30 TVD	
14,870.00	4,769.52	6,864.78	-6,794.54	Survey proj. to 14870 MD 4769.52 TVD 221 FNL 460 FWL	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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. 769 H, Surf loc: 1881 FNL 730 FEL Section 23-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,897,381.88 usft	Latitude:	36.21448900
	+E/-W	0.00 ft	Easting:	2,747,176.06 usft	Longitude:	-107.75168700
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
	IGRF2015	6/28/2019	(°)	(°)	(nT)
			8.992	62.867	49,519.68747305

Design	Surveys Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	315.31	

Survey Program	Date	8/5/2019			
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
305.00	2,594.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,641.00	14,817.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,870.00	14,870.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey										
Measured	Depth	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
	(ft)	(°)	(°)	Depth	(ft)	(ft)	Northing	Easting		
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
	0.00	0.00	0.00	0.00	0.00	0.00	1,897,381.88	2,747,176.06	36.21448900	-107.75168700
	305.00	1.05	67.84	304.98	1.05	2.59	1,897,382.93	2,747,178.65	36.21449189	-107.75167823
	MWD surveys									
	396.00	3.39	112.60	395.91	0.33	5.84	1,897,382.21	2,747,181.91	36.21448991	-107.75166719
	487.00	4.27	116.88	486.71	-2.23	11.35	1,897,379.64	2,747,187.41	36.21448284	-107.75164853
	578.00	4.06	119.55	577.47	-5.35	17.17	1,897,376.52	2,747,193.24	36.21447426	-107.75162880
	670.00	3.87	120.08	669.25	-8.51	22.69	1,897,373.36	2,747,198.76	36.21446556	-107.75161009
	761.00	4.08	135.86	760.03	-12.38	27.61	1,897,369.50	2,747,203.67	36.21445494	-107.75159345
	852.00	5.70	135.49	850.70	-17.92	33.03	1,897,363.95	2,747,209.09	36.21443969	-107.75157509
	942.00	7.69	134.56	940.08	-25.34	40.45	1,897,356.54	2,747,216.51	36.21441931	-107.75154994



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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	9.58	133.88	1,030.04	-34.86	50.25	1,897,347.02	2,747,226.31	36.21439313	-107.75151675	
1,124.00	11.60	136.10	1,119.49	-46.70	62.05	1,897,335.18	2,747,238.11	36.21436057	-107.75147677	
1,216.00	13.82	136.79	1,209.23	-61.38	75.99	1,897,320.50	2,747,252.05	36.21432022	-107.75142956	
1,307.00	13.97	135.95	1,297.57	-77.19	91.07	1,897,304.68	2,747,267.13	36.21427674	-107.75137849	
1,398.00	13.29	135.37	1,386.00	-92.53	106.06	1,897,289.35	2,747,282.12	36.21423457	-107.75132774	
1,491.00	12.91	135.15	1,476.58	-107.50	120.89	1,897,274.37	2,747,296.95	36.21419340	-107.75127748	
1,583.00	12.88	133.67	1,566.26	-121.87	135.56	1,897,260.01	2,747,311.62	36.21415390	-107.75122781	
1,676.00	12.80	133.74	1,656.94	-136.15	150.50	1,897,245.73	2,747,326.56	36.21411464	-107.75117720	
1,768.00	13.34	133.48	1,746.55	-150.50	165.56	1,897,231.38	2,747,341.62	36.21407518	-107.75112618	
1,861.00	13.37	134.38	1,837.04	-165.40	181.03	1,897,216.47	2,747,357.09	36.21403421	-107.75107377	
1,951.00	13.33	134.12	1,924.61	-179.90	195.92	1,897,201.97	2,747,371.98	36.21399434	-107.75102336	
2,044.00	13.14	134.20	2,015.14	-194.74	211.19	1,897,187.14	2,747,387.25	36.21395355	-107.75097162	
2,136.00	12.90	135.20	2,104.77	-209.31	225.93	1,897,172.56	2,747,401.99	36.21391347	-107.75092171	
2,229.00	13.98	133.66	2,195.22	-224.44	241.37	1,897,157.44	2,747,417.43	36.21387190	-107.75086941	
2,319.00	14.36	133.73	2,282.49	-239.66	257.30	1,897,142.22	2,747,433.36	36.21383005	-107.75081545	
2,410.00	14.22	133.72	2,370.67	-255.18	273.53	1,897,126.70	2,747,449.59	36.21378736	-107.75076047	
2,502.00	14.00	134.57	2,459.89	-270.80	289.63	1,897,111.08	2,747,465.69	36.21374441	-107.75070595	
2,594.00	13.60	134.31	2,549.24	-286.17	305.29	1,897,095.71	2,747,481.35	36.21370217	-107.75065289	
2,641.00	13.23	135.22	2,594.96	-293.84	313.04	1,897,088.03	2,747,489.10	36.21368106	-107.75062666	
2,735.00	12.73	132.81	2,686.56	-308.52	328.21	1,897,073.36	2,747,504.27	36.21364071	-107.75057526	
2,826.00	14.47	136.71	2,775.00	-323.61	343.36	1,897,058.27	2,747,519.42	36.21359922	-107.75052394	
2,918.00	14.23	136.46	2,864.13	-340.17	359.03	1,897,041.71	2,747,535.09	36.21355368	-107.75047086	
3,010.00	13.45	136.47	2,953.46	-356.12	374.19	1,897,025.75	2,747,550.25	36.21350982	-107.75041952	
3,102.00	15.07	135.67	3,042.62	-372.44	389.92	1,897,009.44	2,747,565.98	36.21346497	-107.75036625	
3,194.00	14.78	135.20	3,131.52	-389.32	406.55	1,896,992.56	2,747,582.61	36.21341855	-107.75030994	
3,287.00	14.37	135.44	3,221.53	-405.96	423.00	1,896,975.92	2,747,599.06	36.21337280	-107.75025420	
3,377.00	13.78	133.89	3,308.82	-421.35	438.56	1,896,960.53	2,747,614.62	36.21333049	-107.75020150	
3,469.00	13.37	132.97	3,398.25	-436.20	454.24	1,896,945.68	2,747,630.30	36.21328967	-107.75014839	
3,562.00	12.54	132.81	3,488.89	-450.39	469.52	1,896,931.49	2,747,645.58	36.21325065	-107.75009665	
3,654.00	12.59	131.02	3,578.68	-463.75	484.41	1,896,918.12	2,747,660.47	36.21321389	-107.75004620	
3,746.00	9.45	132.45	3,668.97	-475.44	497.55	1,896,906.44	2,747,673.61	36.21318177	-107.75000169	
3,837.00	6.40	136.22	3,759.10	-484.14	506.58	1,896,897.73	2,747,682.64	36.21315783	-107.74997112	
3,929.00	4.16	133.58	3,850.70	-490.15	512.54	1,896,891.73	2,747,688.60	36.21314133	-107.74995092	
4,020.00	1.97	121.02	3,941.56	-493.23	516.27	1,896,888.65	2,747,692.33	36.21313285	-107.74993828	
4,112.00	0.77	2.63	4,033.55	-493.42	517.66	1,896,888.45	2,747,693.72	36.21313231	-107.74993359	
4,156.00	5.89	326.33	4,077.46	-491.25	516.42	1,896,890.63	2,747,692.48	36.21313829	-107.74993778	
4,202.00	11.03	325.41	4,122.94	-485.66	512.61	1,896,896.22	2,747,688.67	36.21315366	-107.74995068	
4,248.00	14.96	325.65	4,167.76	-477.13	506.76	1,896,904.75	2,747,682.82	36.21317710	-107.74997048	
4,294.00	18.67	320.06	4,211.79	-466.58	498.68	1,896,915.30	2,747,674.74	36.21320610	-107.74999784	
4,340.00	21.97	316.25	4,254.92	-454.71	488.00	1,896,927.16	2,747,664.06	36.21323872	-107.75003402	
4,385.00	25.32	316.28	4,296.14	-441.68	475.52	1,896,940.20	2,747,651.58	36.21327457	-107.75007627	
4,431.00	28.40	316.36	4,337.17	-426.65	461.17	1,896,955.23	2,747,637.23	36.21331589	-107.75012487	
4,477.00	30.43	314.38	4,377.24	-410.58	445.29	1,896,971.30	2,747,621.35	36.21336006	-107.75017865	
4,521.00	32.76	313.97	4,414.71	-394.52	428.76	1,896,987.36	2,747,604.82	36.21340422	-107.75023465	
4,567.00	36.23	314.76	4,452.62	-376.30	410.14	1,897,005.58	2,747,586.20	36.21345431	-107.75029771	
4,612.00	40.26	314.38	4,487.95	-356.76	390.30	1,897,025.12	2,747,566.36	36.21350804	-107.75036492	
4,658.00	44.33	313.53	4,521.97	-335.28	368.02	1,897,046.59	2,747,544.08	36.21356709	-107.75044040	
4,704.00	49.44	313.82	4,553.40	-312.10	343.74	1,897,069.78	2,747,519.80	36.21363083	-107.75052263	
4,748.00	54.48	314.43	4,580.51	-287.98	318.88	1,897,093.90	2,747,494.94	36.21369716	-107.75060684	
4,794.00	59.31	315.30	4,605.62	-260.80	291.58	1,897,121.08	2,747,467.64	36.21377189	-107.75069930	
4,837.00	59.41	316.24	4,627.54	-234.29	265.77	1,897,147.59	2,747,441.83	36.21384478	-107.75078670	
POE G top @ 4837 MD 4628 TVD										
4,840.00	59.42	316.31	4,629.06	-232.42	263.99	1,897,149.46	2,747,440.05	36.21384991	-107.75079275	
4,887.00	63.83	315.25	4,651.39	-202.80	235.15	1,897,179.08	2,747,411.21	36.21393135	-107.75089043	
4,931.00	68.66	312.67	4,669.12	-174.87	206.16	1,897,207.01	2,747,382.22	36.21400815	-107.75098862	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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	
4,977.00	74.10	312.35	4,683.80	-145.42	174.04	1,897,236.45	2,747,350.10	36.21408911	-107.75109743	
5,023.00	77.93	312.61	4,694.91	-115.28	141.13	1,897,266.59	2,747,317.19	36.21417198	-107.75120892	
5,068.00	78.97	312.21	4,703.92	-85.55	108.57	1,897,296.33	2,747,284.63	36.21425374	-107.75131919	
5,114.00	81.50	313.30	4,711.72	-54.77	75.29	1,897,327.10	2,747,251.35	36.21433835	-107.75143192	
5,159.00	84.81	314.39	4,717.09	-23.83	43.07	1,897,358.05	2,747,219.13	36.21442344	-107.75154105	
5,205.00	85.02	314.04	4,721.16	8.12	10.23	1,897,390.00	2,747,186.29	36.21451129	-107.75165229	
5,298.00	85.63	313.52	4,728.74	72.25	-56.69	1,897,454.13	2,747,119.37	36.21468762	-107.75187897	
5,390.00	85.66	311.99	4,735.73	134.53	-124.04	1,897,516.40	2,747,052.02	36.21485885	-107.75210713	
5,482.00	87.78	314.69	4,740.99	197.56	-190.83	1,897,579.43	2,746,985.23	36.21503215	-107.75233337	
5,575.00	88.35	316.81	4,744.14	264.13	-255.69	1,897,646.01	2,746,920.37	36.21521518	-107.75255304	
5,667.00	88.08	314.14	4,747.00	329.69	-320.16	1,897,711.56	2,746,855.90	36.21539541	-107.75277142	
5,759.00	89.63	317.34	4,748.84	395.55	-384.35	1,897,777.43	2,746,791.72	36.21557650	-107.75298883	
5,851.00	89.23	315.91	4,749.76	462.42	-447.52	1,897,844.29	2,746,728.54	36.21576033	-107.75320282	
5,941.00	89.06	317.54	4,751.10	527.94	-509.21	1,897,909.81	2,746,666.85	36.21594045	-107.75341175	
6,034.00	90.57	315.77	4,751.40	595.56	-573.04	1,897,977.44	2,746,603.02	36.21612637	-107.75362795	
6,124.00	89.70	317.15	4,751.19	660.80	-635.03	1,898,042.68	2,746,541.03	36.21630573	-107.75383794	
6,217.00	91.48	316.69	4,750.23	728.72	-698.55	1,898,110.60	2,746,477.51	36.21649246	-107.75405307	
6,309.00	91.14	315.73	4,748.13	795.12	-762.20	1,898,176.99	2,746,413.86	36.21667499	-107.75426866	
6,401.00	90.77	316.36	4,746.59	861.34	-826.04	1,898,243.21	2,746,350.02	36.21685704	-107.75448492	
6,493.00	90.64	315.86	4,745.46	927.63	-889.82	1,898,309.51	2,746,286.24	36.21703931	-107.75470095	
6,585.00	90.57	315.99	4,744.49	993.72	-953.81	1,898,375.60	2,746,222.25	36.21722101	-107.75491771	
6,678.00	90.34	316.96	4,743.75	1,061.15	-1,017.86	1,898,443.03	2,746,158.21	36.21740639	-107.75513464	
6,770.00	89.87	312.40	4,743.58	1,125.83	-1,083.25	1,898,507.70	2,746,092.81	36.21758419	-107.75535617	
6,862.00	88.79	310.01	4,744.66	1,186.42	-1,152.46	1,898,568.30	2,746,023.60	36.21775081	-107.75559062	
6,955.00	89.39	313.94	4,746.14	1,248.60	-1,221.58	1,898,630.47	2,745,954.49	36.21792177	-107.75582477	
7,047.00	89.93	315.13	4,746.68	1,313.12	-1,287.15	1,898,695.00	2,745,888.91	36.21809916	-107.75604691	
7,139.00	90.77	316.45	4,746.12	1,379.06	-1,351.30	1,898,760.94	2,745,824.76	36.21828045	-107.75626421	
7,232.00	90.40	314.86	4,745.17	1,445.57	-1,416.30	1,898,827.44	2,745,759.76	36.21846328	-107.75648438	
7,322.00	89.70	313.77	4,745.09	1,508.44	-1,480.70	1,898,890.31	2,745,695.37	36.21863613	-107.75670252	
7,412.00	90.57	314.92	4,744.88	1,571.35	-1,545.06	1,898,953.22	2,745,631.01	36.21880908	-107.75692055	
7,505.00	89.50	312.20	4,744.82	1,635.43	-1,612.44	1,899,017.30	2,745,563.62	36.21898526	-107.75714883	
7,597.00	90.07	314.69	4,745.17	1,698.68	-1,679.23	1,899,080.56	2,745,496.83	36.21915918	-107.75737509	
7,689.00	90.00	315.10	4,745.11	1,763.62	-1,744.40	1,899,145.49	2,745,431.66	36.21933770	-107.75759587	
7,781.00	89.90	313.11	4,745.19	1,827.65	-1,810.46	1,899,209.52	2,745,365.60	36.21951373	-107.75781965	
7,873.00	90.94	315.76	4,744.52	1,892.05	-1,876.15	1,899,273.92	2,745,299.92	36.21969079	-107.75804216	
7,966.00	89.26	312.77	4,744.35	1,956.95	-1,942.74	1,899,338.82	2,745,233.33	36.21986922	-107.75826775	
8,058.00	90.54	316.31	4,744.52	2,021.47	-2,008.30	1,899,403.34	2,745,167.77	36.22004659	-107.75848985	
8,148.00	89.39	314.19	4,744.57	2,085.38	-2,071.65	1,899,467.25	2,745,104.41	36.22022230	-107.75870448	
8,241.00	90.30	316.02	4,744.82	2,151.26	-2,137.29	1,899,533.13	2,745,038.77	36.22040341	-107.75892683	
8,333.00	89.83	316.54	4,744.72	2,217.75	-2,200.88	1,899,599.62	2,744,975.19	36.22058620	-107.75914222	
8,426.00	90.07	315.77	4,744.80	2,284.82	-2,265.30	1,899,666.69	2,744,910.77	36.22077059	-107.75936045	
8,518.00	90.00	316.32	4,744.74	2,351.05	-2,329.15	1,899,732.92	2,744,846.91	36.22095266	-107.75957677	
8,610.00	89.70	313.79	4,744.98	2,416.16	-2,394.14	1,899,798.03	2,744,781.93	36.22113166	-107.75979693	
8,703.00	90.91	317.43	4,744.49	2,482.60	-2,459.18	1,899,864.47	2,744,716.88	36.22131432	-107.76001727	
8,795.00	90.17	317.07	4,743.62	2,550.16	-2,521.63	1,899,932.03	2,744,654.44	36.22150003	-107.76022881	
8,888.00	90.64	314.92	4,742.96	2,617.04	-2,586.23	1,899,998.91	2,744,589.83	36.22168391	-107.76044767	
8,978.00	89.60	314.87	4,742.78	2,680.57	-2,649.99	1,900,062.44	2,744,526.08	36.22185854	-107.76066366	
9,068.00	88.28	312.84	4,744.44	2,742.91	-2,714.87	1,900,124.78	2,744,461.20	36.22202993	-107.76088347	
9,161.00	90.00	315.16	4,745.84	2,807.49	-2,781.75	1,900,189.36	2,744,394.31	36.22220749	-107.76111006	
9,251.00	90.34	315.00	4,745.57	2,871.22	-2,845.30	1,900,253.09	2,744,330.76	36.22238269	-107.76132536	
9,344.00	90.44	314.86	4,744.94	2,936.90	-2,911.14	1,900,318.77	2,744,264.92	36.22256325	-107.76154842	
9,436.00	88.82	313.18	4,745.53	3,000.83	-2,977.30	1,900,382.70	2,744,198.77	36.22273900	-107.76177253	
9,528.00	91.01	314.71	4,745.67	3,064.67	-3,043.53	1,900,446.54	2,744,132.54	36.22291450	-107.76199693	
9,620.00	88.86	310.75	4,745.77	3,127.08	-3,111.09	1,900,508.95	2,744,064.98	36.22308608	-107.76222583	
9,713.00	90.97	311.70	4,745.91	3,188.36	-3,181.03	1,900,570.23	2,743,995.03	36.22325458	-107.76246281	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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	
9,805.00	91.38	315.88	4,744.02	3,252.00	-3,247.42	1,900,633.87	2,743,928.65	36.22342953	-107.76268773	
9,897.00	92.12	315.11	4,741.21	3,317.58	-3,311.88	1,900,699.45	2,743,864.19	36.22360982	-107.76290610	
9,988.00	92.35	314.13	4,737.66	3,381.45	-3,376.60	1,900,763.32	2,743,799.47	36.22378540	-107.76312538	
10,079.00	90.98	317.19	4,735.02	3,446.50	-3,440.16	1,900,828.37	2,743,735.90	36.22396422	-107.76334073	
10,169.00	90.71	316.41	4,733.69	3,512.10	-3,501.77	1,900,893.97	2,743,674.30	36.22414455	-107.76354943	
10,259.00	90.84	317.00	4,732.47	3,577.60	-3,563.48	1,900,959.46	2,743,612.59	36.22432460	-107.76375850	
10,352.00	90.10	316.87	4,731.71	3,645.54	-3,626.98	1,901,027.41	2,743,549.09	36.22451136	-107.76397362	
10,442.00	88.82	313.53	4,732.56	3,709.39	-3,690.38	1,901,091.25	2,743,485.69	36.22468688	-107.76418844	
10,535.00	88.89	318.27	4,734.42	3,776.14	-3,755.07	1,901,158.01	2,743,421.00	36.22487039	-107.76440760	
10,627.00	88.25	317.37	4,736.72	3,844.29	-3,816.82	1,901,226.16	2,743,359.24	36.22505773	-107.76461681	
10,720.00	87.98	316.53	4,739.77	3,912.22	-3,880.27	1,901,294.08	2,743,295.79	36.22524445	-107.76483177	
10,812.00	88.25	316.11	4,742.80	3,978.71	-3,943.78	1,901,360.58	2,743,232.29	36.22542725	-107.76504692	
10,904.00	88.32	315.12	4,745.55	4,044.43	-4,008.10	1,901,426.30	2,743,167.97	36.22560790	-107.76526484	
10,994.00	89.23	315.07	4,747.48	4,108.16	-4,071.62	1,901,490.03	2,743,104.45	36.22578310	-107.76548005	
11,087.00	90.00	316.98	4,748.10	4,175.08	-4,136.19	1,901,556.95	2,743,039.88	36.22596706	-107.76569881	
11,179.00	90.54	315.85	4,747.67	4,241.72	-4,199.61	1,901,623.59	2,742,976.46	36.22615024	-107.76591370	
11,271.00	91.08	314.34	4,746.37	4,306.88	-4,264.55	1,901,688.74	2,742,911.52	36.22632935	-107.76613372	
11,363.00	89.66	316.45	4,745.77	4,372.37	-4,329.15	1,901,754.24	2,742,846.92	36.22650939	-107.76635258	
11,454.00	90.50	316.58	4,745.65	4,438.39	-4,391.77	1,901,820.26	2,742,784.30	36.22669088	-107.76656475	
11,546.00	88.82	316.32	4,746.19	4,505.07	-4,455.15	1,901,886.94	2,742,720.92	36.22687417	-107.76677950	
11,639.00	89.39	316.34	4,747.65	4,572.33	-4,519.36	1,901,954.20	2,742,656.71	36.22705906	-107.76699704	
11,731.00	89.76	315.44	4,748.33	4,638.38	-4,583.40	1,902,020.25	2,742,592.67	36.22724063	-107.76721400	
11,823.00	90.00	314.26	4,748.52	4,703.27	-4,648.62	1,902,085.13	2,742,527.45	36.22741899	-107.76743499	
11,915.00	88.86	316.68	4,749.44	4,768.84	-4,713.13	1,902,150.71	2,742,462.94	36.22759925	-107.76765356	
12,008.00	89.26	316.63	4,750.96	4,836.47	-4,776.95	1,902,218.33	2,742,399.12	36.22778514	-107.76786981	
12,100.00	88.79	315.05	4,752.53	4,902.45	-4,841.03	1,902,284.32	2,742,335.04	36.22796654	-107.76808693	
12,190.00	89.19	315.56	4,754.11	4,966.42	-4,904.32	1,902,348.29	2,742,271.75	36.22814238	-107.76830138	
12,280.00	89.33	314.75	4,755.28	5,030.23	-4,967.79	1,902,412.09	2,742,208.29	36.22831777	-107.76851640	
12,372.00	88.22	315.99	4,757.24	5,095.68	-5,032.40	1,902,477.55	2,742,143.67	36.22849770	-107.76873534	
12,465.00	87.78	316.60	4,760.49	5,162.87	-5,096.62	1,902,544.74	2,742,079.45	36.22868239	-107.76895293	
12,555.00	87.68	315.25	4,764.05	5,227.48	-5,159.17	1,902,609.34	2,742,016.90	36.22885999	-107.76916488	
12,648.00	89.39	313.14	4,766.43	5,292.28	-5,225.82	1,902,674.15	2,741,950.25	36.22903813	-107.76939072	
12,740.00	90.67	316.29	4,766.38	5,357.00	-5,291.19	1,902,738.87	2,741,884.88	36.22921603	-107.76961221	
12,832.00	90.74	316.37	4,765.25	5,423.54	-5,354.71	1,902,805.41	2,741,821.36	36.22939894	-107.76982744	
12,924.00	89.66	314.38	4,764.93	5,489.02	-5,419.33	1,902,870.88	2,741,756.74	36.22957892	-107.77004641	
13,017.00	88.89	311.07	4,766.11	5,552.10	-5,487.64	1,902,933.96	2,741,688.43	36.22975234	-107.77027786	
13,109.00	88.99	314.98	4,767.81	5,614.85	-5,554.87	1,902,996.71	2,741,621.20	36.22992484	-107.77050569	
13,201.00	89.53	314.45	4,769.00	5,679.57	-5,620.24	1,903,061.44	2,741,555.83	36.23010276	-107.77072720	
13,293.00	90.07	314.72	4,769.32	5,744.15	-5,685.76	1,903,126.02	2,741,490.31	36.23028028	-107.77094922	
13,385.00	90.67	313.54	4,768.73	5,808.21	-5,751.80	1,903,190.07	2,741,424.28	36.23045636	-107.77117297	
13,477.00	88.99	315.05	4,769.00	5,872.45	-5,817.64	1,903,254.32	2,741,358.43	36.23063296	-107.77139609	
13,568.00	89.80	316.47	4,769.96	5,937.64	-5,881.12	1,903,319.51	2,741,294.95	36.23081215	-107.77161120	
13,660.00	90.30	314.44	4,769.88	6,003.21	-5,945.65	1,903,385.07	2,741,230.42	36.23099238	-107.77182987	
13,753.00	89.60	318.63	4,769.96	6,070.69	-6,009.61	1,903,452.55	2,741,166.46	36.23117787	-107.77204660	
13,843.00	90.10	317.82	4,770.20	6,137.81	-6,069.57	1,903,519.67	2,741,106.50	36.23136235	-107.77224975	
13,934.00	90.94	317.02	4,769.37	6,204.81	-6,131.14	1,903,586.67	2,741,044.93	36.23154652	-107.77245837	
14,026.00	91.38	315.27	4,767.51	6,271.14	-6,194.87	1,903,653.00	2,740,981.21	36.23172883	-107.77267431	
14,116.00	88.79	315.70	4,767.37	6,335.31	-6,257.96	1,903,717.17	2,740,918.11	36.23190522	-107.77288810	
14,208.00	89.26	314.73	4,768.94	6,400.59	-6,322.76	1,903,782.46	2,740,853.32	36.23208468	-107.77310768	
14,298.00	90.07	314.16	4,769.47	6,463.61	-6,387.01	1,903,845.47	2,740,789.06	36.23225791	-107.77332541	
14,390.00	88.12	315.18	4,770.92	6,528.28	-6,452.42	1,903,910.14	2,740,723.65	36.23243566	-107.77354709	
14,483.00	88.65	314.43	4,773.54	6,593.79	-6,518.38	1,903,975.65	2,740,657.69	36.23261573	-107.77377060	
14,575.00	89.63	314.89	4,774.92	6,658.45	-6,583.81	1,904,040.31	2,740,592.26	36.23279346	-107.77399232	
14,667.00	90.71	314.56	4,774.65	6,723.19	-6,649.18	1,904,105.05	2,740,526.90	36.23297142	-107.77421382	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Lybrook Unit Well No. 769 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. 769 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
14,678.00	90.79	314.56	4,774.50	6,730.90	-6,657.01	1,904,112.77	2,740,519.06	36.23299263	-107.77424038
Frac Sleeve @ 14678 MD 4775 TVD									
14,718.00	91.08	314.57	4,773.85	6,758.97	-6,685.51	1,904,140.83	2,740,490.57	36.23306977	-107.77433694
330 FNL 567 FWL @ 14718 MD 4774 TVD									
14,759.00	91.38	314.57	4,772.97	6,787.73	-6,714.71	1,904,169.59	2,740,461.36	36.23314884	-107.77443591
14,817.00	91.92	313.78	4,771.30	6,828.13	-6,756.29	1,904,209.99	2,740,419.78	36.23325990	-107.77457681
Survey @ 14817.00 MD 4771.30 TVD									
14,870.00	91.92	313.78	4,769.52	6,864.78	-6,794.54	1,904,246.64	2,740,381.54	36.23336064	-107.77470642
Survey proj. to 14870 MD 4769.52 TVD 221 FNL 460 FWL									

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
305.00	304.98	1.05	2.59	MWD surveys	
4,837.00	4,627.54	-234.29	265.77	POE G top @ 4837 MD 4628 TVD	
14,678.00	4,774.50	6,730.90	-6,657.01	Frac Sleeve @ 14678 MD 4775 TVD	
14,718.00	4,773.85	6,758.97	-6,685.51	330 FNL 567 FWL @ 14718 MD 4774 TVD	
14,817.00	4,771.30	6,828.13	-6,756.29	Survey @ 14817.00 MD 4771.30 TVD	
14,870.00	4,769.52	6,864.78	-6,794.54	Survey proj. to 14870 MD 4769.52 TVD 221 FNL 460 FWL	

API	Unit	#	Fm Top Depth Type	Ojo Alamo	Kirtland	Fruitland	Pictured Cliffs	Cliff House	Menefee	Point Lookout	Mancos	Gallup
30045358920000	W LYBROOK UNIT	769H	Measured Depth	382	491	691	1050	2188	2593	3578	3739	4077
			TVD	382	490	690	1047	2155	2548	3504	3662	3998

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 21029

COMMENTS

Operator:	ENDURING RESOURCES, LLC	1050 17TH STREET, SUITE 2500	DENVER, CO80265	OGRID:	372286	Action Number:	21029	Action Type:	C-104C
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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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 21029

CONDITIONS OF APPROVAL

Operator:	ENDURING RESOURCES, LLC	1050 17TH STREET, SUITE 2500	DENVER, CO80265	OGRID:	372286	Action Number:	21029	Action Type:	C-104C
OCD Reviewer	ahvermersch			Condition	None				