

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 30-045-35875	⁵ Pool Name BASIN MANCOS		⁶ Pool Code 97232
⁷ Property Code 321253	⁸ Property Name RODEO UNIT		⁹ Well Number #511H

II. ¹⁰ Surface Location

UL or lot no. N	Section 25	Township 23N	Range 9W	Lot Idn	Feet from the 191'	North/South Line SOUTH	Feet from the 1365'	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no. O	Section 31	Township 23N	Range 8W	Lot Idn	Feet from the 191'	North/South line SOUTH	Feet from the 2605'	East/West line EAST	County SAN JUAN
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 1/25/2023		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

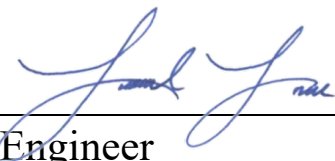
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	WESTERN REFINING COMPANY, LLC	O
373888	HARVEST FOUR CORNERS. LLC	G

IV. Well Completion Data

²¹ Spud Date 8/10/2022	²² Ready Date 1/25/2023	²³ TD 12047' MD 4622' TVD	²⁴ PBDT 11959' MD 4621' TVD	²⁵ Perforations ~ 5153' - 11959' MD ~ 4635'-4621' TVD	²⁶ DHC, MC R-14051	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		361' MD		350 sx - surface
12-1/4"		9-5/8",36#, J-55		2760' MD		675 sx- surface
8-1/2"		5-1/2",20#, P-110		12047' MD		1780 sx- surface

V. Well Test Data

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

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION Approved by: 	
Printed name: Kayla White		Title: Petroleum Engineer	
Title: Environmental Engineer		Approval Date: 01/27/23	
E-mail Address: kwhite@cdhconsult.com		COA: RT Expires on 04/25/23	
Date: 1/6/2023	Phone: 720-768-3575		



ENDURING RESOURCES IV LLC

January 6, 2023

Re: *RODEO UNIT 511H-30-045-35875*

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

Sincerely,



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

District I
1200 N. St. Francis Drive, Santa Fe, NM 87505
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

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35875		² Pool Code 97232	³ Pool Name BASIN MANCOS	
⁴ Property Code 321253	⁵ Property Name RODEO UNIT			⁶ Well Number 511H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6798 '

¹⁰ Surface Location

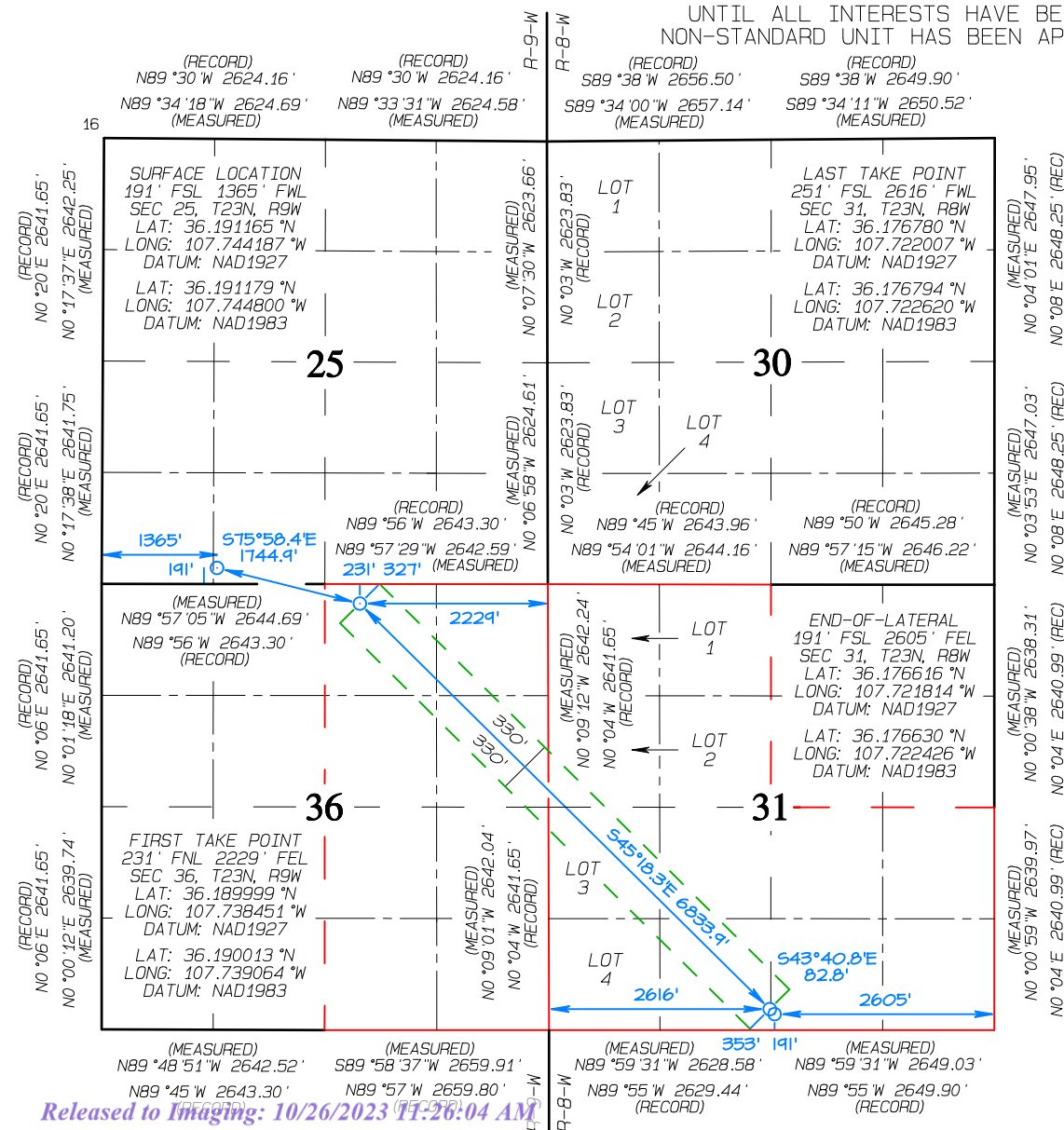
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	25	23N	9W		191	SOUTH	1365	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	31	23N	8W		191	SOUTH	2605	EAST	SAN JUAN

¹² Dedicated Acres 801.48 W/2 - Sec 36, T23NR9W W/2, SE/4 - Sec 31, T23NR8W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14313
NO. 143134-5 WITH BE ASSIGNED TO THIS COMPLETION			

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.

Khem Suthivan 1/26/2023

Signature
Khem Suthiwan

Printed Name
ksuthiwan@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: JANUARY 26, 2023
Survey Date: JANUARY 24, 2017

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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

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811 S. First Street, Artesia, NM 88210
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☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35875		² Pool Code 97232		³ Pool Name BASIN MANCOS	
⁴ Property Code 321253		⁵ Property Name RODEO UNIT			⁶ Well Number 511H
⁷ GRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6798'

¹⁰ Surface Location

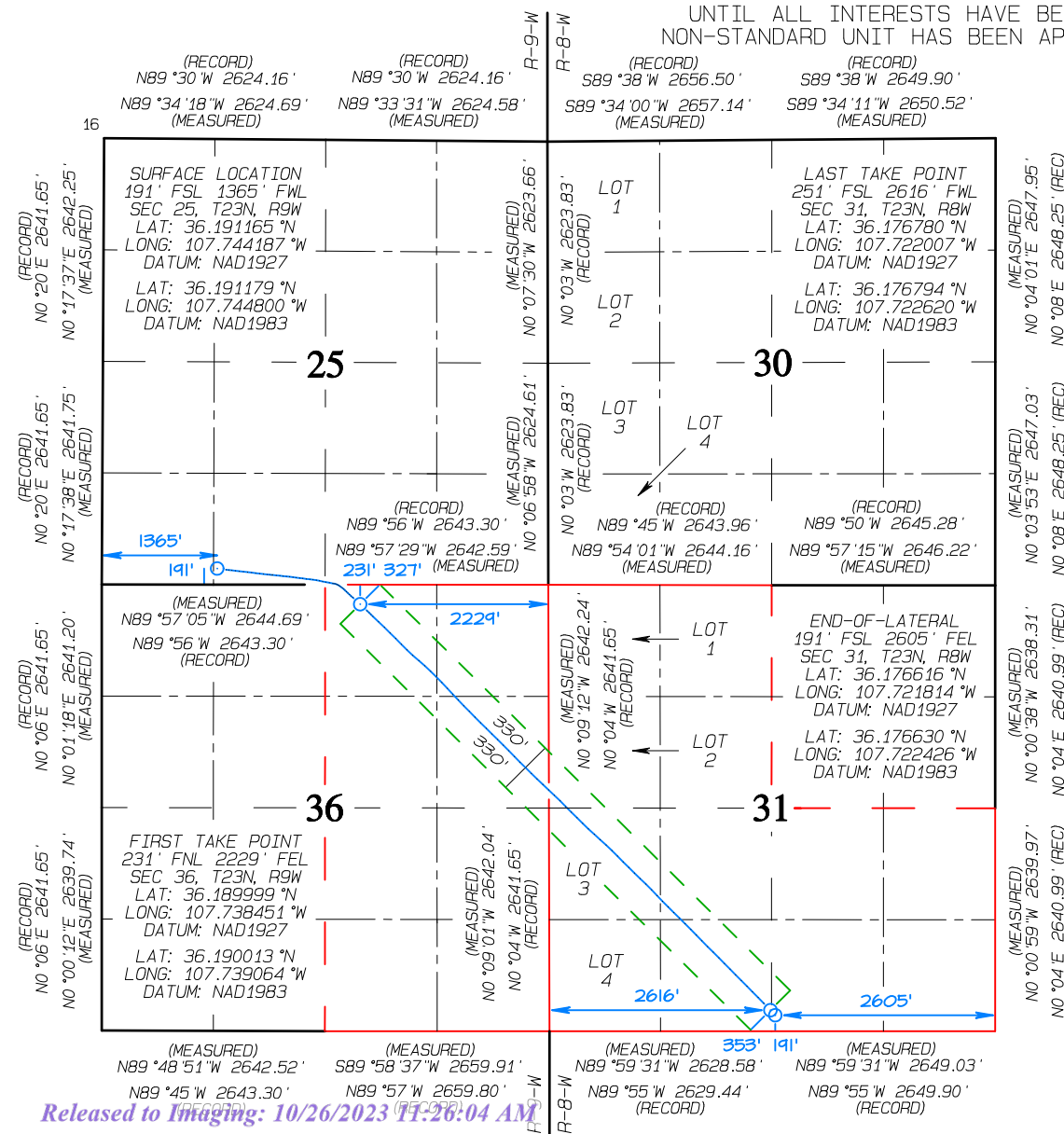
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12 Dedicated Acres 801.48 W/2 - Sec 36, T23NR9W W/2, SE/4 - Sec 31, T23NR8W	13 Joint or Infill	14 Consolidation Code	15 Order No. R-14313
NO A/C NUMBER WILL BE ASSIGNED TO THIS COMPLETION			

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Khern Suthivan 1/26/2023

Signature	Date
-----------	------

Khem Suthiwan

Printed Name

ksuthiwan@enduringresources.com

E-mail Address

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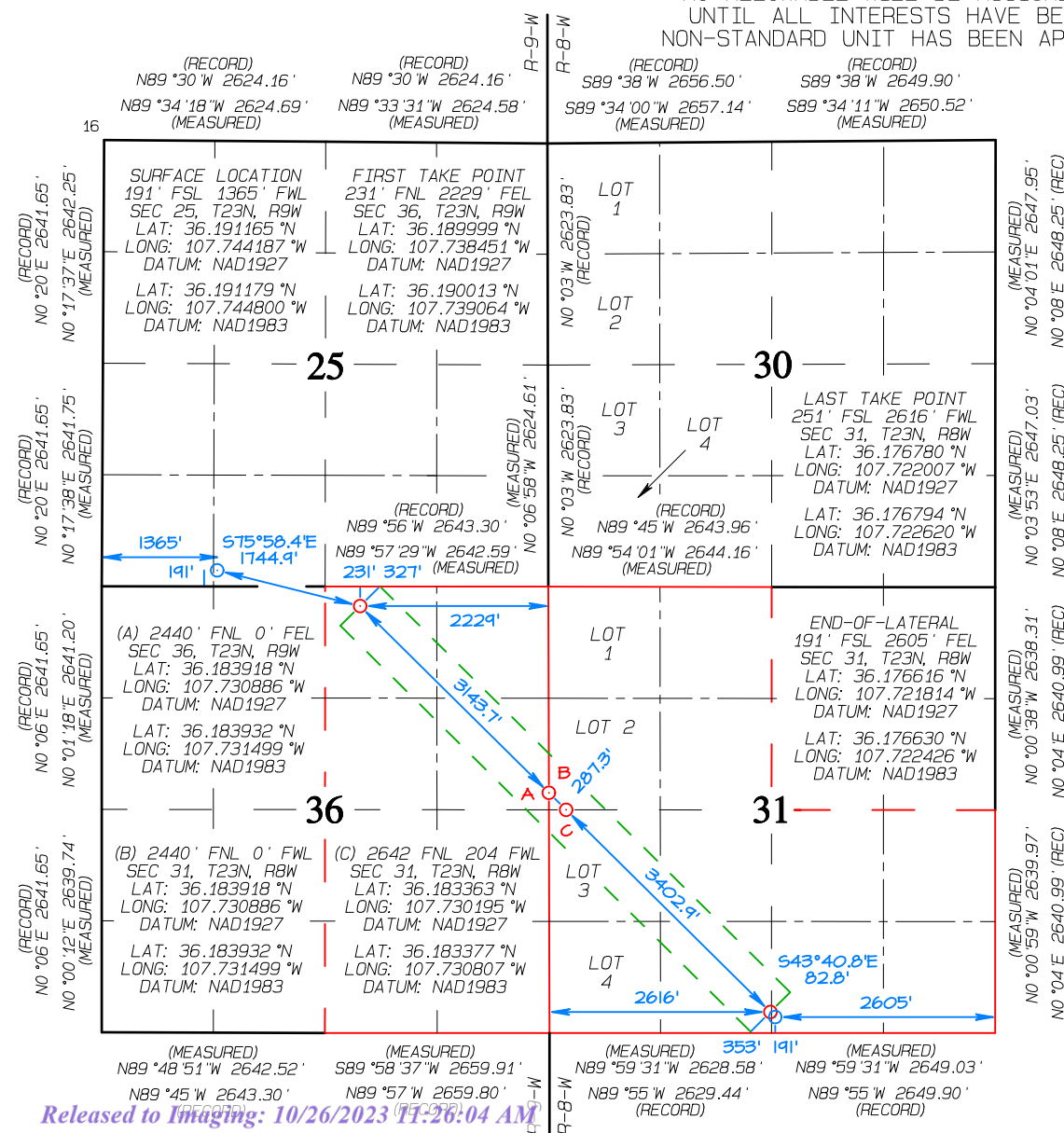
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Khem Suthiwan 1/26/2023
Signature Date
Khem Suthiwan
Printed Name
ksuthiwan@enduringresources.com
E-mail Address

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Date Revised: JANUARY 26, 2023
Survey Date: JANUARY 24, 2017

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Well: Rodeo Unit #511H
Site: Rodeo Unit 511 pad (511, 512 & 513)
Project: San Juan County, New Mexico NAD83 NM W
Design: Surveys Original Hole
Rig: Ensign 145

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
412.00	0.21	72.690	412.00	0.22	0.72	0.34	MWD surveys
2760.00	27.20	95.691	2610.37	-75.74	641.62	499.50	9 5/8" Casing @ 2760 MD 2610.37 TVD
5123.66	69.77	132.541	4627.00	-423.01	1692.91	1478.74	FTP @ 5123.66 MD 4627.00 TVD
5143.00	71.71	132.692	4633.38	-435.38	1706.35	1496.96	330 perp @ 5143 MD 4633.38 TVD
11944.00	89.39	136.320	4621.36	-5215.00	6536.84	8290.41	Survey @ 11944 MD 4621.36 TVD
11964.20	89.39	136.320	4621.58	-5229.61	6550.79	8310.61	LTP @ 11964.20 MD 4621.58 TVD
11995.00	89.39	136.320	4621.91	-5251.88	6572.06	8341.40	330 perp @ 11995 MD 4621.91 TVD
12047.00	89.39	136.320	4622.46	-5289.49	6607.97	8393.40	Survey proj. to 12047.00 MD 4622.46 TVD



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=6798+13 @ 6813.00ft (Ensign 145)

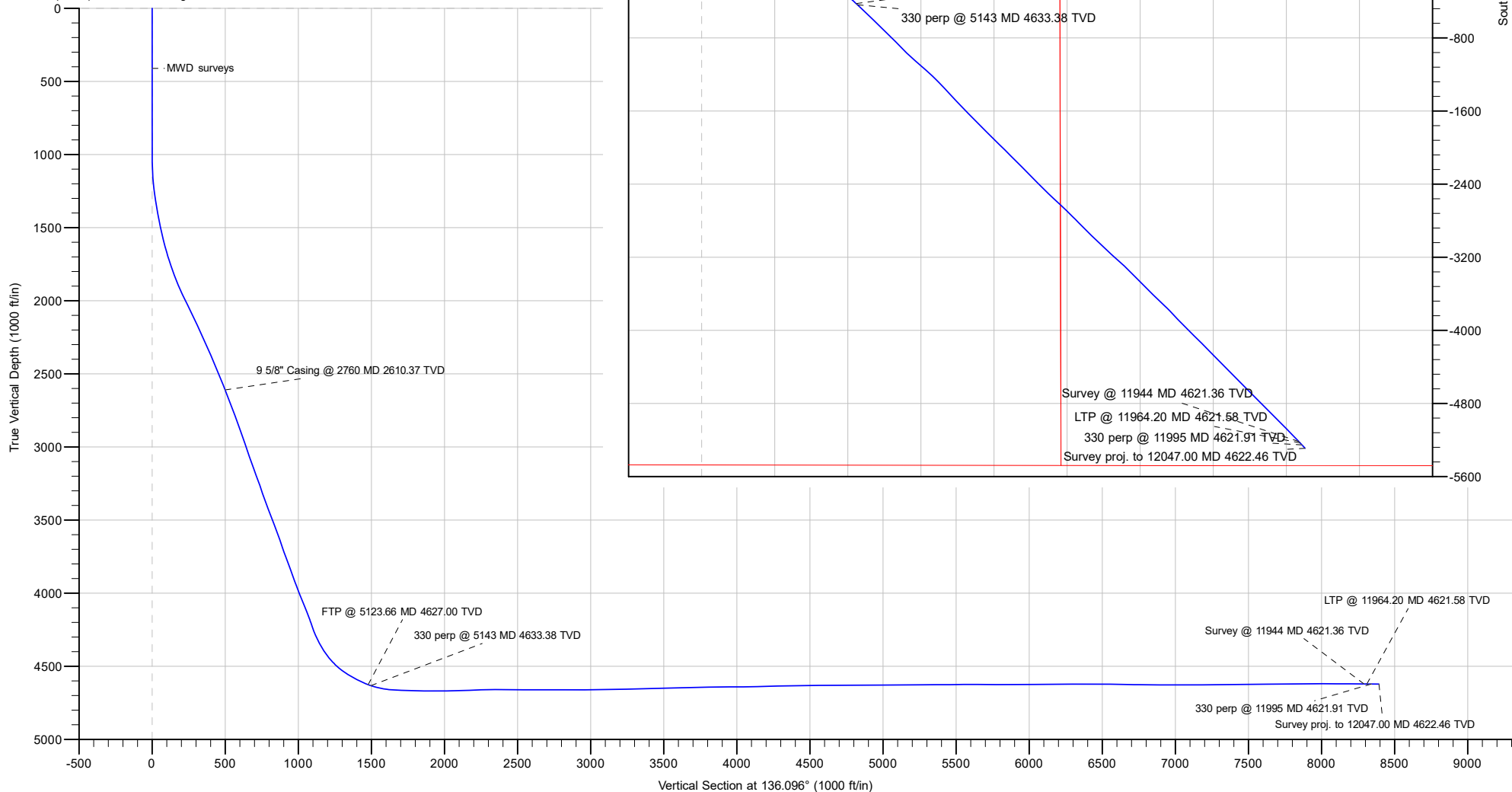
Surface location:
Northing 1888898.346 Easting 2749215.361 Latitude 36.191179000 Longitude -107.744800000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.59°



Azimuths to Grid North 00
True North: -0.05°
Magnetic North: 8.59°

Magnetic Field
Strength: 49142.1nT
Dip Angle: 62.69°
Date: 11/18/2022
Model: IGRF2020





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

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	Rodeo Unit 511 pad (511, 512 & 513)				
Site Position:		Northing:	1,888,898.347 usft	Latitude:	36.191179000
From:	Lat/Long	Easting:	2,749,215.362 usft	Longitude:	-107.744800000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Rodeo Unit #511H, Surf loc: 191 FSL 1365 FWL Section 25-T23N-R09W						
Well Position	+N/-S	0.00 ft	Northing:	1,888,898.347	usft	Latitude:	36.191179000
	+E/-W	0.00 ft	Easting:	2,749,215.362	usft	Longitude:	-107.744800000
Position Uncertainty		0.00 ft	Wellhead Elevation:		ft	Ground Level:	6,798.00 ft
Grid Convergence:		0.05 °					

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/18/2022	8.65	62.69	49,142.13436349

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	136.096	

Survey Program	Date	12/8/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
412.00	2,654.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,709.00	11,944.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
12,047.00	12,047.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
412.00	0.21	72.690	412.00	0.22	0.72	0.34	0.05	0.05	0.00	
MWD surveys										
503.00	0.14	61.740	503.00	0.33	0.98	0.44	0.08	-0.08	-12.03	
594.00	0.09	17.630	594.00	0.45	1.10	0.44	0.11	-0.05	-48.47	
685.00	0.18	276.660	685.00	0.53	0.98	0.29	0.24	0.10	-110.96	
776.00	0.05	287.620	776.00	0.56	0.80	0.15	0.14	-0.14	12.04	
866.00	0.20	213.660	866.00	0.44	0.67	0.15	0.21	0.17	-82.18	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

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)
957.00	0.32	217.480	957.00	0.11	0.43	0.22	0.13	0.13	4.20
1,051.00	2.44	72.050	1,050.97	0.52	2.17	1.14	2.88	2.26	-154.71
1,146.00	6.21	81.480	1,145.68	1.90	9.18	5.00	4.03	3.97	9.93
1,240.00	9.26	93.820	1,238.82	2.15	21.76	13.54	3.68	3.24	13.13
1,334.00	11.11	103.520	1,331.35	-0.47	38.11	26.77	2.68	1.97	10.32
1,429.00	12.17	103.140	1,424.39	-4.89	56.77	42.89	1.12	1.12	-0.40
1,523.00	14.68	101.610	1,515.82	-9.54	78.09	61.02	2.70	2.67	-1.63
1,617.00	18.29	98.480	1,605.94	-14.11	104.35	82.53	3.95	3.84	-3.33
1,712.00	22.02	96.050	1,695.11	-18.19	136.82	107.98	4.02	3.93	-2.56
1,806.00	24.04	96.030	1,781.61	-22.06	173.38	136.13	2.15	2.15	-0.02
1,900.00	27.35	96.570	1,866.30	-26.54	213.89	167.44	3.53	3.52	0.57
1,994.00	31.66	96.600	1,948.09	-31.85	259.87	203.15	4.59	4.59	0.03
2,089.00	32.71	96.210	2,028.49	-37.49	310.15	242.09	1.13	1.11	-0.41
2,183.00	30.97	96.300	2,108.35	-42.89	359.44	280.16	1.85	-1.85	0.10
2,277.00	31.05	97.270	2,188.91	-48.61	407.53	317.63	0.54	0.09	1.03
2,371.00	30.81	97.220	2,269.55	-54.71	455.46	355.26	0.26	-0.26	-0.05
2,466.00	29.88	96.760	2,351.53	-60.55	503.10	392.50	1.01	-0.98	-0.48
2,560.00	28.72	96.350	2,433.50	-65.80	548.80	427.98	1.25	-1.23	-0.44
2,654.00	27.82	96.060	2,516.29	-70.62	593.06	462.14	0.97	-0.96	-0.31
2,709.00	27.34	96.150	2,565.04	-73.33	618.38	481.65	0.88	-0.87	0.16
2,760.00	27.20	95.691	2,610.37	-75.74	641.62	499.50	0.50	-0.28	-0.90
9 5/8" Casing @ 2760 MD 2610.37 TVD									
2,791.00	27.11	95.410	2,637.96	-77.11	655.70	510.25	0.50	-0.28	-0.91
2,886.00	26.53	95.030	2,722.74	-81.01	698.38	542.66	0.64	-0.61	-0.40
2,981.00	25.75	97.240	2,808.02	-85.47	739.99	574.73	1.31	-0.82	2.33
3,075.00	24.77	96.160	2,893.03	-90.15	779.83	605.73	1.15	-1.04	-1.15
3,169.00	23.86	94.940	2,978.69	-93.90	818.35	635.14	1.11	-0.97	-1.30
3,263.00	24.85	97.240	3,064.33	-98.03	856.88	664.84	1.46	1.05	2.45
3,357.00	24.41	95.980	3,149.78	-102.54	895.80	695.07	0.73	-0.47	-1.34
3,451.00	26.04	98.510	3,234.81	-107.62	935.52	726.28	2.08	1.73	2.69
3,546.00	24.04	95.970	3,320.88	-112.72	975.40	757.61	2.39	-2.11	-2.67
3,640.00	24.32	99.250	3,406.64	-117.82	1,013.55	787.74	1.46	0.30	3.49
3,734.00	26.58	96.970	3,491.51	-123.49	1,053.53	819.55	2.62	2.40	-2.43
3,829.00	26.60	96.740	3,576.47	-128.56	1,095.75	852.48	0.11	0.02	-0.24
3,923.00	23.24	95.300	3,661.70	-132.75	1,135.13	882.80	3.63	-3.57	-1.53
4,018.00	24.66	101.500	3,748.54	-138.43	1,173.22	913.31	3.04	1.49	6.53
4,111.00	23.73	100.920	3,833.36	-145.84	1,210.60	944.58	1.03	-1.00	-0.62
4,205.00	23.98	102.330	3,919.34	-153.51	1,247.84	975.92	0.66	0.27	1.50
4,299.00	25.83	100.320	4,004.59	-161.25	1,286.65	1,008.41	2.16	1.97	-2.14
4,393.00	26.60	101.490	4,088.92	-169.11	1,327.42	1,042.35	0.99	0.82	1.24
4,487.00	24.96	100.100	4,173.57	-176.79	1,367.57	1,075.72	1.86	-1.74	-1.48
4,519.00	23.02	98.780	4,202.80	-178.92	1,380.40	1,086.16	6.29	-6.06	-4.13
4,551.00	22.65	102.490	4,232.29	-181.21	1,392.60	1,096.27	4.64	-1.16	11.59
4,582.00	23.96	107.350	4,260.77	-184.38	1,404.44	1,106.76	7.50	4.23	15.68



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

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)
4,613.00	25.59	112.690	4,288.92	-188.84	1,416.63	1,118.42	8.93	5.26	17.23
4,645.00	27.39	118.700	4,317.56	-195.04	1,429.46	1,131.79	10.08	5.63	18.78
4,676.00	28.70	122.080	4,344.92	-202.42	1,442.03	1,145.82	6.64	4.23	10.90
4,708.00	31.19	124.000	4,372.65	-211.14	1,455.41	1,161.38	8.34	7.78	6.00
4,739.00	33.93	127.030	4,398.77	-220.84	1,468.97	1,177.78	10.28	8.84	9.77
4,771.00	36.95	128.490	4,424.84	-232.21	1,483.64	1,196.14	9.80	9.44	4.56
4,802.00	40.25	130.890	4,449.07	-244.57	1,498.50	1,215.35	11.69	10.65	7.74
4,833.00	43.25	133.520	4,472.20	-258.44	1,513.78	1,235.94	11.20	9.68	8.48
4,865.00	46.61	133.250	4,494.85	-273.96	1,530.20	1,258.51	10.52	10.50	-0.84
4,896.00	50.18	133.480	4,515.43	-289.87	1,547.05	1,281.66	11.53	11.52	0.74
4,928.00	54.14	133.280	4,535.05	-307.23	1,565.42	1,306.90	12.38	12.38	-0.63
4,959.00	58.25	132.590	4,552.30	-324.77	1,584.27	1,332.61	13.39	13.26	-2.23
4,991.00	60.97	132.170	4,568.49	-343.37	1,604.66	1,360.16	8.58	8.50	-1.31
5,022.00	61.01	132.260	4,583.52	-361.59	1,624.74	1,387.20	0.28	0.13	0.29
5,053.00	62.19	131.950	4,598.26	-379.87	1,644.97	1,414.41	3.91	3.81	-1.00
5,085.00	65.60	131.630	4,612.34	-399.01	1,666.40	1,443.06	10.69	10.66	-1.00
5,116.00	69.00	132.480	4,624.30	-418.17	1,687.63	1,471.58	11.26	10.97	2.74
5,123.66	69.77	132.541	4,627.00	-423.01	1,692.91	1,478.74	10.06	10.03	0.79
FTP @ 5123.66 MD 4627.00 TVD									
5,143.00	71.71	132.692	4,633.38	-435.38	1,706.35	1,496.96	10.06	10.03	0.78
330 perp @ 5143 MD 4633.38 TVD									
5,148.00	72.21	132.730	4,634.93	-438.60	1,709.84	1,501.70	10.06	10.03	0.77
5,180.00	75.70	133.470	4,643.77	-459.61	1,732.29	1,532.41	11.13	10.91	2.31
5,211.00	78.66	134.140	4,650.65	-480.53	1,754.10	1,562.61	9.78	9.55	2.16
5,242.00	81.18	133.760	4,656.07	-501.71	1,776.07	1,593.11	8.22	8.13	-1.23
5,274.00	84.28	134.460	4,660.12	-523.81	1,798.86	1,624.83	9.93	9.69	2.19
5,305.00	87.18	134.110	4,662.43	-545.39	1,820.99	1,655.72	9.42	9.35	-1.13
5,336.00	87.61	133.820	4,663.84	-566.89	1,843.28	1,686.67	1.67	1.39	-0.94
5,430.00	87.77	133.710	4,667.63	-631.85	1,911.11	1,780.52	0.21	0.17	-0.12
5,524.00	89.82	134.060	4,669.61	-697.00	1,978.84	1,874.42	2.21	2.18	0.37
5,619.00	89.74	134.620	4,669.97	-763.39	2,046.78	1,969.37	0.60	-0.08	0.59
5,713.00	92.36	135.300	4,668.25	-829.80	2,113.28	2,063.33	2.88	2.79	0.72
5,808.00	92.05	135.220	4,664.59	-897.23	2,180.10	2,158.25	0.34	-0.33	-0.08
5,902.00	91.98	135.110	4,661.29	-963.85	2,246.34	2,252.18	0.14	-0.07	-0.12
5,996.00	89.84	130.960	4,659.79	-1,027.97	2,315.02	2,346.01	4.97	-2.28	-4.41
6,091.00	89.24	130.260	4,660.56	-1,089.80	2,387.13	2,440.57	0.97	-0.63	-0.74
6,186.00	89.91	133.180	4,661.26	-1,153.01	2,458.03	2,535.28	3.15	0.71	3.07
6,280.00	89.80	132.460	4,661.50	-1,216.91	2,526.98	2,629.12	0.77	-0.12	-0.77
6,374.00	90.27	135.940	4,661.44	-1,282.43	2,594.36	2,723.06	3.74	0.50	3.70
6,469.00	89.99	136.520	4,661.23	-1,351.03	2,660.08	2,818.06	0.68	-0.29	0.61
6,563.00	89.65	137.150	4,661.52	-1,419.59	2,724.38	2,912.05	0.76	-0.36	0.67
6,657.00	91.05	136.590	4,660.95	-1,488.19	2,788.64	3,006.03	1.60	1.49	-0.60
6,751.00	90.51	137.030	4,659.67	-1,556.72	2,852.97	3,100.02	0.74	-0.57	0.47



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,846.00	91.20	135.140	4,658.25	-1,625.14	2,918.85	3,195.00	2.12	0.73	-1.99	
6,940.00	90.37	135.380	4,656.96	-1,691.90	2,985.01	3,288.98	0.92	-0.88	0.26	
7,035.00	92.11	135.290	4,654.91	-1,759.45	3,051.77	3,383.95	1.83	1.83	-0.09	
7,130.00	92.01	134.910	4,651.49	-1,826.70	3,118.79	3,478.87	0.41	-0.11	-0.40	
7,224.00	91.78	134.930	4,648.38	-1,893.04	3,185.31	3,572.80	0.25	-0.24	0.02	
7,318.00	91.18	134.120	4,645.96	-1,958.93	3,252.31	3,666.73	1.07	-0.64	-0.86	
7,413.00	91.11	134.600	4,644.06	-2,025.34	3,320.21	3,761.67	0.51	-0.07	0.51	
7,507.00	90.62	134.610	4,642.64	-2,091.34	3,387.13	3,855.63	0.52	-0.52	0.01	
7,601.00	90.55	135.390	4,641.68	-2,157.80	3,453.59	3,949.60	0.83	-0.07	0.83	
7,696.00	90.01	135.830	4,641.21	-2,225.69	3,520.05	4,044.60	0.73	-0.57	0.46	
7,790.00	91.82	135.210	4,639.71	-2,292.75	3,585.90	4,138.58	2.04	1.93	-0.66	
7,884.00	91.52	134.880	4,636.97	-2,359.24	3,652.29	4,232.52	0.47	-0.32	-0.35	
7,979.00	91.01	135.380	4,634.88	-2,426.55	3,719.29	4,327.49	0.75	-0.54	0.53	
8,073.00	91.01	132.730	4,633.22	-2,491.89	3,786.83	4,421.40	2.82	0.00	-2.82	
8,168.00	90.90	134.000	4,631.64	-2,557.12	3,855.88	4,516.28	1.34	-0.12	1.34	
8,262.00	90.15	133.290	4,630.77	-2,621.99	3,923.90	4,610.19	1.10	-0.80	-0.76	
8,356.00	89.97	133.710	4,630.68	-2,686.69	3,992.09	4,704.09	0.49	-0.19	0.45	
8,450.00	89.94	134.360	4,630.75	-2,752.03	4,059.66	4,798.03	0.69	-0.03	0.69	
8,544.00	90.97	135.750	4,630.00	-2,818.56	4,126.06	4,892.01	1.84	1.10	1.48	
8,639.00	90.29	134.320	4,628.96	-2,885.77	4,193.19	4,986.98	1.67	-0.72	-1.51	
8,733.00	90.25	134.440	4,628.52	-2,951.51	4,260.37	5,080.94	0.13	-0.04	0.13	
8,827.00	90.68	135.300	4,627.75	-3,017.83	4,326.99	5,174.91	1.02	0.46	0.91	
8,921.00	89.98	132.160	4,627.21	-3,082.80	4,394.91	5,268.82	3.42	-0.74	-3.34	
9,016.00	90.41	132.340	4,626.89	-3,146.67	4,465.23	5,363.61	0.49	0.45	0.19	
9,110.00	90.39	132.260	4,626.23	-3,209.93	4,534.75	5,457.40	0.09	-0.02	-0.09	
9,204.00	91.17	132.720	4,624.95	-3,273.42	4,604.06	5,551.20	0.96	0.83	0.49	
9,299.00	88.92	134.290	4,624.88	-3,338.81	4,672.96	5,646.09	2.89	-2.37	1.65	
9,393.00	90.48	135.640	4,625.37	-3,405.24	4,739.46	5,740.07	2.19	1.66	1.44	
9,488.00	90.52	135.360	4,624.54	-3,472.99	4,806.04	5,835.06	0.30	0.04	-0.29	
9,582.00	89.50	134.340	4,624.52	-3,539.28	4,872.68	5,929.04	1.53	-1.09	-1.09	
9,677.00	90.07	134.510	4,624.88	-3,605.78	4,940.53	6,024.00	0.63	0.60	0.18	
9,771.00	90.59	134.440	4,624.34	-3,671.64	5,007.60	6,117.96	0.56	0.55	-0.07	
9,866.00	89.68	132.930	4,624.12	-3,737.25	5,076.30	6,212.87	1.86	-0.96	-1.59	
9,961.00	90.70	136.730	4,623.80	-3,804.21	5,143.66	6,307.83	4.14	1.07	4.00	
10,055.00	91.33	136.990	4,622.14	-3,872.79	5,207.92	6,401.80	0.73	0.67	0.28	
10,149.00	89.34	135.550	4,621.59	-3,940.71	5,272.90	6,495.79	2.61	-2.12	-1.53	
10,243.00	88.84	134.750	4,623.08	-4,007.34	5,339.18	6,589.77	1.00	-0.53	-0.85	
10,338.00	88.15	134.120	4,625.57	-4,073.83	5,406.99	6,684.69	0.98	-0.73	-0.66	
10,433.00	90.02	135.340	4,627.09	-4,140.67	5,474.47	6,779.65	2.35	1.97	1.28	
10,527.00	89.76	135.070	4,627.27	-4,207.38	5,540.70	6,873.64	0.40	-0.28	-0.29	
10,622.00	89.45	135.340	4,627.93	-4,274.79	5,607.63	6,968.62	0.43	-0.33	0.28	
10,716.00	89.39	136.040	4,628.88	-4,342.05	5,673.29	7,062.61	0.75	-0.06	0.74	
10,810.00	90.49	135.040	4,628.98	-4,409.14	5,739.13	7,156.61	1.58	1.17	-1.06	
10,905.00	90.31	135.290	4,628.31	-4,476.51	5,806.11	7,251.59	0.32	-0.19	0.26	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,999.00	91.34	135.030	4,626.96	-4,543.15	5,872.38	7,345.57	1.13	1.10	-0.28
11,094.00	90.94	135.010	4,625.07	-4,610.34	5,939.52	7,440.53	0.42	-0.42	-0.02
11,188.00	90.66	135.190	4,623.76	-4,676.92	6,005.86	7,534.51	0.35	-0.30	0.19
11,282.00	90.34	135.630	4,622.94	-4,743.85	6,071.85	7,628.50	0.58	-0.34	0.47
11,377.00	89.82	135.270	4,622.80	-4,811.55	6,138.50	7,723.49	0.67	-0.55	-0.38
11,471.00	91.16	135.050	4,622.00	-4,878.20	6,204.78	7,817.47	1.44	1.43	-0.23
11,566.00	90.81	135.480	4,620.37	-4,945.68	6,271.63	7,912.45	0.58	-0.37	0.45
11,660.00	89.82	134.610	4,619.85	-5,012.20	6,338.04	8,006.43	1.40	-1.05	-0.93
11,755.00	89.82	135.730	4,620.15	-5,079.57	6,405.02	8,101.42	1.18	0.00	1.18
11,849.00	89.66	135.520	4,620.58	-5,146.76	6,470.75	8,195.41	0.28	-0.17	-0.22
11,944.00	89.39	136.320	4,621.36	-5,215.00	6,536.84	8,290.41	0.89	-0.28	0.84
Survey @ 11944 MD 4621.36 TVD									
11,964.20	89.39	136.320	4,621.58	-5,229.61	6,550.79	8,310.61	0.00	0.00	0.00
LTP @ 11964.20 MD 4621.58 TVD									
11,995.00	89.39	136.320	4,621.91	-5,251.88	6,572.06	8,341.40	0.00	0.00	0.00
330 perp @ 11995 MD 4621.91 TVD									
12,047.00	89.39	136.320	4,622.46	-5,289.49	6,607.97	8,393.40	0.00	0.00	0.00
Survey proj. to 12047.00 MD 4622.46 TVD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
412.00	412.00	0.22	0.72	MWD surveys
2,760.00	2,610.37	-75.74	641.62	9 5/8" Casing @ 2760 MD 2610.37 TVD
5,123.66	4,627.00	-423.01	1,692.91	FTP @ 5123.66 MD 4627.00 TVD
5,143.00	4,633.38	-435.38	1,706.35	330 perp @ 5143 MD 4633.38 TVD
11,944.00	4,621.36	-5,215.00	6,536.84	Survey @ 11944 MD 4621.36 TVD
11,964.20	4,621.58	-5,229.61	6,550.79	LTP @ 11964.20 MD 4621.58 TVD
11,995.00	4,621.91	-5,251.88	6,572.06	330 perp @ 11995 MD 4621.91 TVD
12,047.00	4,622.46	-5,289.49	6,607.97	Survey proj. to 12047.00 MD 4622.46 TVD



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

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	Rodeo Unit 511 pad (511, 512 & 513)				
Site Position:		Northing:	1,888,898.347 usft	Latitude:	36.191179000
From:	Lat/Long	Easting:	2,749,215.362 usft	Longitude:	-107.744800000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	Rodeo Unit #511H, Surf loc: 191 FSL 1365 FWL Section 25-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,888,898.347 usft	Latitude:	36.191179000
	+E/-W	0.00 ft	Easting:	2,749,215.362 usft	Longitude:	-107.744800000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,798.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/18/2022	8.65	62.69	49,142.13436349

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	136.096	

Survey Program	Date	12/8/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
412.00	2,654.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,709.00	11,944.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
12,047.00	12,047.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
412.00	0.21	72.690	412.00	0.22	0.72	1,888,898.571	2,749,216.083	36.191179615	-107.744797557
MWD surveys									
503.00	0.14	61.740	503.00	0.33	0.98	1,888,898.674	2,749,216.340	36.191179895	-107.744796685
594.00	0.09	17.630	594.00	0.45	1.10	1,888,898.794	2,749,216.459	36.191180227	-107.744796279
685.00	0.18	276.660	685.00	0.53	0.98	1,888,898.879	2,749,216.339	36.191180460	-107.744796687
776.00	0.05	287.620	776.00	0.56	0.80	1,888,898.908	2,749,216.159	36.191180539	-107.744797296
866.00	0.20	213.660	866.00	0.44	0.67	1,888,898.789	2,749,216.035	36.191180212	-107.744797718
957.00	0.32	217.480	957.00	0.11	0.43	1,888,898.455	2,749,215.792	36.191179296	-107.744798542
1,051.00	2.44	72.050	1,050.97	0.52	2.17	1,888,898.863	2,749,217.536	36.191180413	-107.744792630



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,146.00	6.21	81.480	1,145.68	1.90	9.18	1,888,900.248	2,749,224.544	36.191184201	-107.744768876
1,240.00	9.26	93.820	1,238.82	2.15	21.76	1,888,900.498	2,749,237.122	36.191184854	-107.744726248
1,334.00	11.11	103.520	1,331.35	-0.47	38.11	1,888,897.876	2,749,253.476	36.191177612	-107.744670831
1,429.00	12.17	103.140	1,424.39	-4.89	56.77	1,888,893.460	2,749,272.128	36.191165433	-107.744607636
1,523.00	14.68	101.610	1,515.82	-9.54	78.09	1,888,888.810	2,749,293.447	36.191152604	-107.744535399
1,617.00	18.29	98.480	1,605.94	-14.11	104.35	1,888,884.236	2,749,319.712	36.191139974	-107.744446402
1,712.00	22.02	96.050	1,695.11	-18.19	136.82	1,888,880.159	2,749,352.178	36.191128693	-107.744336388
1,806.00	24.04	96.030	1,781.61	-22.06	173.38	1,888,876.290	2,749,388.745	36.191117972	-107.744212471
1,900.00	27.35	96.570	1,866.30	-26.54	213.89	1,888,871.807	2,749,429.249	36.191105554	-107.744075220
1,994.00	31.66	96.600	1,948.09	-31.85	259.87	1,888,866.499	2,749,475.227	36.191090855	-107.743919416
2,089.00	32.71	96.210	2,028.49	-37.49	310.15	1,888,860.856	2,749,525.513	36.191075227	-107.743749016
2,183.00	30.97	96.300	2,108.35	-42.89	359.44	1,888,855.454	2,749,574.805	36.191060263	-107.743581981
2,277.00	31.05	97.270	2,188.91	-48.61	407.53	1,888,849.733	2,749,622.892	36.191044422	-107.743419032
2,371.00	30.81	97.220	2,269.55	-54.71	455.46	1,888,843.639	2,749,670.821	36.191027562	-107.743256620
2,466.00	29.88	96.760	2,351.53	-60.55	503.10	1,888,837.796	2,749,718.458	36.191011388	-107.743095198
2,560.00	28.72	96.350	2,433.50	-65.80	548.80	1,888,832.542	2,749,764.158	36.190996837	-107.742940338
2,654.00	27.82	96.060	2,516.29	-70.62	593.06	1,888,827.728	2,749,808.417	36.190983500	-107.742790359
2,709.00	27.34	96.150	2,565.04	-73.33	618.38	1,888,825.020	2,749,833.737	36.190975996	-107.742704559
2,760.00	27.20	95.691	2,610.37	-75.74	641.62	1,888,822.610	2,749,856.978	36.190969315	-107.742625803
9 5/8" Casing @ 2760 MD 2610.37 TVD									
2,791.00	27.11	95.410	2,637.96	-77.11	655.70	1,888,821.241	2,749,871.059	36.190965519	-107.742578086
2,886.00	26.53	95.030	2,722.74	-81.01	698.38	1,888,817.340	2,749,913.743	36.190954693	-107.742433441
2,981.00	25.75	97.240	2,808.02	-85.47	739.99	1,888,812.879	2,749,955.351	36.190942331	-107.742292446
3,075.00	24.77	96.160	2,893.03	-90.15	779.83	1,888,808.193	2,749,995.187	36.190929354	-107.742157459
3,169.00	23.86	94.940	2,978.69	-93.90	818.35	1,888,804.443	2,750,033.707	36.190918952	-107.742026926
3,263.00	24.85	97.240	3,064.33	-98.03	856.88	1,888,800.316	2,750,072.244	36.190907516	-107.741896338
3,357.00	24.41	95.980	3,149.78	-102.54	895.80	1,888,795.803	2,750,111.156	36.190895018	-107.741764480
3,451.00	26.04	98.510	3,234.81	-107.62	935.52	1,888,790.726	2,750,150.883	36.190880967	-107.741629861
3,546.00	24.04	95.970	3,320.88	-112.72	975.40	1,888,785.627	2,750,190.757	36.190866856	-107.741494747
3,640.00	24.32	99.250	3,406.64	-117.82	1,013.55	1,888,780.524	2,750,228.905	36.190852738	-107.741365478
3,734.00	26.58	96.970	3,491.51	-123.49	1,053.53	1,888,774.860	2,750,268.891	36.190837074	-107.741229987
3,829.00	26.60	96.740	3,576.47	-128.56	1,095.75	1,888,769.784	2,750,311.109	36.190823022	-107.741086926
3,923.00	23.24	95.300	3,661.70	-132.75	1,135.13	1,888,765.600	2,750,350.486	36.190811424	-107.740953492
4,018.00	24.66	101.500	3,748.54	-138.43	1,173.22	1,888,759.917	2,750,388.577	36.190795711	-107.740824420
4,111.00	23.73	100.920	3,833.36	-145.84	1,210.60	1,888,752.503	2,750,425.964	36.190775249	-107.740697741
4,205.00	23.98	102.330	3,919.34	-153.51	1,247.84	1,888,744.841	2,750,463.196	36.190754102	-107.740571584
4,299.00	25.83	100.320	4,004.59	-161.25	1,286.65	1,888,737.093	2,750,502.008	36.190732715	-107.740440077
4,393.00	26.60	101.490	4,088.92	-169.11	1,327.42	1,888,729.232	2,750,542.779	36.190711013	-107.740301932
4,487.00	24.96	100.100	4,173.57	-176.79	1,367.57	1,888,721.562	2,750,582.931	36.190689835	-107.740165883
4,519.00	23.02	98.780	4,202.80	-178.92	1,380.40	1,888,719.422	2,750,595.763	36.190683924	-107.740122402
4,551.00	22.65	102.490	4,232.29	-181.21	1,392.60	1,888,717.135	2,750,607.963	36.190677607	-107.740081064
4,582.00	23.96	107.350	4,260.77	-184.38	1,404.44	1,888,713.966	2,750,619.800	36.190668872	-107.740040958
4,613.00	25.59	112.690	4,288.92	-188.84	1,416.63	1,888,709.506	2,750,631.987	36.190656587	-107.739999670
4,645.00	27.39	118.700	4,317.56	-195.04	1,429.46	1,888,703.303	2,750,644.823	36.190639514	-107.739956190
4,676.00	28.70	122.080	4,344.92	-202.42	1,442.03	1,888,695.925	2,750,657.386	36.190619212	-107.739913639
4,708.00	31.19	124.000	4,372.65	-211.14	1,455.41	1,888,687.209	2,750,670.768	36.190595234	-107.739868315
4,739.00	33.93	127.030	4,398.77	-220.84	1,468.97	1,888,677.508	2,750,684.333	36.190568546	-107.739822375
4,771.00	36.95	128.490	4,424.84	-232.21	1,483.64	1,888,666.140	2,750,698.995	36.190537281	-107.739772725
4,802.00	40.25	130.890	4,449.07	-244.57	1,498.50	1,888,653.782	2,750,713.863	36.190503290	-107.739722376
4,833.00	43.25	133.520	4,472.20	-258.44	1,513.78	1,888,639.908	2,750,729.140	36.190465138	-107.739670649
4,865.00	46.61	133.250	4,494.85	-273.96	1,530.20	1,888,624.388	2,750,745.563	36.190422459	-107.739615042
4,896.00	50.18	133.480	4,515.43	-289.87	1,547.05	1,888,608.473	2,750,762.411	36.190378695	-107.739557997
4,928.00	54.14	133.280	4,535.05	-307.23	1,565.42	1,888,591.120	2,750,780.776	36.190330976	-107.739495816
4,959.00	58.25	132.590	4,552.30	-324.77	1,584.27	1,888,573.581	2,750,799.633	36.190282743	-107.739431968
4,991.00	60.97	132.170	4,568.49	-343.37	1,604.66	1,888,554.978	2,750,820.022	36.190231585	-107.739362930



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,022.00	61.01	132.260	4,583.52	-361.59	1,624.74	1,888,536.762	2,750,840.101	36.190181490	-107.739294944
5,053.00	62.19	131.950	4,598.26	-379.87	1,644.97	1,888,518.479	2,750,860.332	36.190131211	-107.739226441
5,085.00	65.60	131.630	4,612.34	-399.01	1,666.40	1,888,499.333	2,750,881.755	36.190078558	-107.739153904
5,116.00	69.00	132.480	4,624.30	-418.17	1,687.63	1,888,480.178	2,750,902.984	36.190025880	-107.739082021
5,123.66	69.77	132.541	4,627.00	-423.01	1,692.91	1,888,475.333	2,750,908.269	36.190012557	-107.739064127
FTP @ 5123.66 MD 4627.00 TVD									
5,143.00	71.71	132.692	4,633.38	-435.38	1,706.35	1,888,462.972	2,750,921.704	36.189978563	-107.739018637
330 perp @ 5143 MD 4633.38 TVD									
5,148.00	72.21	132.730	4,634.93	-438.60	1,709.84	1,888,459.747	2,750,925.198	36.189969695	-107.739006809
5,180.00	75.70	133.470	4,643.77	-459.61	1,732.29	1,888,438.736	2,750,947.648	36.189911917	-107.738930796
5,211.00	78.66	134.140	4,650.65	-480.53	1,754.10	1,888,417.815	2,750,969.459	36.189854384	-107.738856947
5,242.00	81.18	133.760	4,656.07	-501.71	1,776.07	1,888,396.634	2,750,991.432	36.189796140	-107.738782554
5,274.00	84.28	134.460	4,660.12	-523.81	1,798.86	1,888,374.542	2,751,014.220	36.189735390	-107.738705400
5,305.00	87.18	134.110	4,662.43	-545.39	1,820.99	1,888,352.960	2,751,036.348	36.189676042	-107.738630480
5,336.00	87.61	133.820	4,663.84	-566.89	1,843.28	1,888,331.461	2,751,058.637	36.189616923	-107.738555013
5,430.00	87.77	133.710	4,667.63	-631.85	1,911.11	1,888,266.494	2,751,126.467	36.189438270	-107.738325358
5,524.00	89.82	134.060	4,669.61	-697.00	1,978.84	1,888,201.350	2,751,194.197	36.189259130	-107.738096043
5,619.00	89.74	134.620	4,669.97	-763.39	2,046.78	1,888,134.954	2,751,262.141	36.189076551	-107.737866009
5,713.00	92.36	135.300	4,668.25	-829.80	2,113.28	1,888,068.550	2,751,328.638	36.188893952	-107.737640878
5,808.00	92.05	135.220	4,664.59	-897.23	2,180.10	1,888,001.121	2,751,395.458	36.188708536	-107.737414658
5,902.00	91.98	135.110	4,661.29	-963.85	2,246.34	1,887,934.503	2,751,461.693	36.188525350	-107.737190418
5,996.00	89.84	130.960	4,659.79	-1,027.97	2,315.02	1,887,870.380	2,751,530.374	36.188349010	-107.736957881
6,091.00	89.24	130.260	4,660.56	-1,089.80	2,387.13	1,887,808.547	2,751,602.491	36.188178950	-107.736713695
6,186.00	89.91	133.180	4,661.26	-1,153.01	2,458.03	1,887,745.334	2,751,673.389	36.188005105	-107.736473644
6,280.00	89.80	132.460	4,661.50	-1,216.91	2,526.98	1,887,681.443	2,751,742.336	36.187829401	-107.736240207
6,374.00	90.27	135.940	4,661.44	-1,282.43	2,594.36	1,887,615.920	2,751,809.715	36.187649216	-107.736012092
6,469.00	89.99	136.520	4,661.23	-1,351.03	2,660.08	1,887,547.319	2,751,875.432	36.187460581	-107.735789621
6,563.00	89.65	137.150	4,661.52	-1,419.59	2,724.38	1,887,478.758	2,751,939.737	36.187272058	-107.735571936
6,657.00	91.05	136.590	4,660.95	-1,488.19	2,788.64	1,887,410.160	2,752,003.997	36.187083433	-107.735354403
6,751.00	90.51	137.030	4,659.67	-1,556.72	2,852.97	1,887,341.632	2,752,068.326	36.186895003	-107.735136639
6,846.00	91.20	135.140	4,658.25	-1,625.14	2,918.85	1,887,273.208	2,752,134.207	36.186706852	-107.734913618
6,940.00	90.37	135.380	4,656.96	-1,691.90	2,985.01	1,887,206.446	2,752,200.365	36.186523265	-107.734689649
7,035.00	92.11	135.290	4,654.91	-1,759.45	3,051.77	1,887,138.898	2,752,267.128	36.186337516	-107.734463636
7,130.00	92.01	134.910	4,651.49	-1,826.70	3,118.79	1,887,071.650	2,752,334.142	36.186152590	-107.734236771
7,224.00	91.78	134.930	4,648.38	-1,893.04	3,185.31	1,887,005.311	2,752,400.667	36.185970163	-107.734011565
7,318.00	91.18	134.120	4,645.96	-1,958.93	3,252.31	1,886,939.419	2,752,467.660	36.185788963	-107.733784769
7,413.00	91.11	134.600	4,644.06	-2,025.34	3,320.21	1,886,873.012	2,752,535.567	36.185606345	-107.733554878
7,507.00	90.62	134.610	4,642.64	-2,091.34	3,387.13	1,886,807.012	2,752,602.484	36.185424846	-107.733328343
7,601.00	90.55	135.390	4,641.68	-2,157.80	3,453.59	1,886,740.548	2,752,668.948	36.185242074	-107.733103346
7,696.00	90.01	135.830	4,641.21	-2,225.69	3,520.05	1,886,672.663	2,752,735.403	36.185055397	-107.732878386
7,790.00	91.82	135.210	4,639.71	-2,292.75	3,585.90	1,886,605.606	2,752,801.253	36.184870998	-107.732655472
7,884.00	91.52	134.880	4,636.97	-2,359.24	3,652.29	1,886,539.114	2,752,867.641	36.184688149	-107.732430738
7,979.00	91.01	135.380	4,634.88	-2,426.55	3,719.29	1,886,471.804	2,752,934.646	36.184503048	-107.732203912
8,073.00	91.01	132.730	4,633.22	-2,491.89	3,786.83	1,886,406.457	2,753,002.185	36.184323340	-107.731975274
8,168.00	90.90	134.000	4,631.64	-2,557.12	3,855.88	1,886,341.237	2,753,071.238	36.184143974	-107.731741505
8,262.00	90.15	133.290	4,630.77	-2,621.99	3,923.90	1,886,276.363	2,753,139.255	36.183965563	-107.731511245
8,356.00	89.97	133.710	4,630.68	-2,686.69	3,992.09	1,886,211.658	2,753,207.440	36.183787614	-107.731280418
8,450.00	89.94	134.360	4,630.75	-2,752.03	4,059.66	1,886,146.319	2,753,275.018	36.183607927	-107.731051653
8,544.00	90.97	135.750	4,630.00	-2,818.56	4,126.06	1,886,079.792	2,753,341.417	36.183424978	-107.730826885
8,639.00	90.29	134.320	4,628.96	-2,885.77	4,193.19	1,886,012.582	2,753,408.545	36.183240150	-107.730599652
8,733.00	90.25	134.440	4,628.52	-2,951.51	4,260.37	1,885,946.838	2,753,475.728	36.183059349	-107.730372230
8,827.00	90.68	135.300	4,627.75	-3,017.83	4,326.99	1,885,880.524	2,753,542.343	36.182876983	-107.730146732
8,921.00	89.98	132.160	4,627.21	-3,082.80	4,394.91	1,885,815.556	2,753,610.258	36.182698308	-107.729916828
9,016.00	90.41	132.340	4,626.89	-3,146.67	4,465.23	1,885,751.682	2,753,680.578	36.182522633	-107.729678770
9,110.00	90.39	132.260	4,626.23	-3,209.93	4,534.75	1,885,688.420	2,753,750.101	36.182348643	-107.729443411



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,204.00	91.17	132.720	4,624.95	-3,273.42	4,604.06	1,885,624.933	2,753,819.409	36.182174034	-107.729208783
9,299.00	88.92	134.290	4,624.88	-3,338.81	4,672.96	1,885,559.540	2,753,888.307	36.181994188	-107.728975553
9,393.00	90.48	135.640	4,625.37	-3,405.24	4,739.46	1,885,493.117	2,753,954.811	36.181811521	-107.728750440
9,488.00	90.52	135.360	4,624.54	-3,472.99	4,806.04	1,885,425.361	2,754,021.395	36.181625191	-107.728525062
9,582.00	89.50	134.340	4,624.52	-3,539.28	4,872.68	1,885,359.069	2,754,088.035	36.181442882	-107.728299490
9,677.00	90.07	134.510	4,624.88	-3,605.78	4,940.53	1,885,292.573	2,754,155.880	36.181260006	-107.728069837
9,771.00	90.59	134.440	4,624.34	-3,671.64	5,007.60	1,885,226.718	2,754,222.953	36.181078896	-107.727842798
9,866.00	89.68	132.930	4,624.12	-3,737.25	5,076.30	1,885,161.105	2,754,291.649	36.180898445	-107.727610259
9,961.00	90.70	136.730	4,623.80	-3,804.21	5,143.66	1,885,094.143	2,754,359.009	36.180714292	-107.727382252
10,055.00	91.33	136.990	4,622.14	-3,872.79	5,207.92	1,885,025.564	2,754,423.274	36.180525705	-107.727164741
10,149.00	89.34	135.550	4,621.59	-3,940.71	5,272.90	1,884,957.646	2,754,488.247	36.180338931	-107.726944832
10,243.00	88.84	134.750	4,623.08	-4,007.34	5,339.18	1,884,891.013	2,754,554.531	36.180155684	-107.726720472
10,338.00	88.15	134.120	4,625.57	-4,073.83	5,406.99	1,884,824.527	2,754,622.341	36.179972836	-107.726490945
10,433.00	90.02	135.340	4,627.09	-4,140.67	5,474.47	1,884,757.682	2,754,689.819	36.179789001	-107.726262545
10,527.00	89.76	135.070	4,627.27	-4,207.38	5,540.70	1,884,690.977	2,754,756.048	36.179605554	-107.726038376
10,622.00	89.45	135.340	4,627.93	-4,274.79	5,607.63	1,884,623.564	2,754,822.981	36.179420159	-107.725811828
10,716.00	89.39	136.040	4,628.88	-4,342.05	5,673.29	1,884,556.304	2,754,888.640	36.179235190	-107.725589597
10,810.00	90.49	135.040	4,628.98	-4,409.14	5,739.13	1,884,489.215	2,754,954.476	36.179050687	-107.725366763
10,905.00	90.31	135.290	4,628.31	-4,476.51	5,806.11	1,884,421.849	2,755,021.456	36.178865419	-107.725140059
10,999.00	91.34	135.030	4,626.96	-4,543.15	5,872.38	1,884,355.203	2,755,087.730	36.178682133	-107.724915743
11,094.00	90.94	135.010	4,625.07	-4,610.34	5,939.52	1,884,288.017	2,755,154.868	36.178497363	-107.724688503
11,188.00	90.66	135.190	4,623.76	-4,676.92	6,005.86	1,884,221.440	2,755,221.213	36.178314264	-107.724463948
11,282.00	90.34	135.630	4,622.94	-4,743.85	6,071.85	1,884,154.501	2,755,287.201	36.178130171	-107.724240607
11,377.00	89.82	135.270	4,622.80	-4,811.55	6,138.50	1,884,086.801	2,755,353.846	36.177943986	-107.724015043
11,471.00	91.16	135.050	4,622.00	-4,878.20	6,204.78	1,884,020.151	2,755,420.124	36.177760688	-107.723790719
11,566.00	90.81	135.480	4,620.37	-4,945.68	6,271.63	1,883,952.677	2,755,486.978	36.177575120	-107.723564450
11,660.00	89.82	134.610	4,619.85	-5,012.20	6,338.04	1,883,886.159	2,755,553.391	36.177392182	-107.723339670
11,755.00	89.82	135.730	4,620.15	-5,079.57	6,405.02	1,883,818.786	2,755,620.365	36.177206894	-107.723112994
11,849.00	89.66	135.520	4,620.58	-5,146.76	6,470.75	1,883,751.598	2,755,686.103	36.177022115	-107.722890506
11,944.00	89.39	136.320	4,621.36	-5,215.00	6,536.84	1,883,683.356	2,755,752.188	36.176834440	-107.722666849
Survey @ 11944 MD 4621.36 TVD									
11,964.20	89.39	136.320	4,621.58	-5,229.61	6,550.79	1,883,668.748	2,755,766.138	36.176794267	-107.722619637
LTP @ 11964.20 MD 4621.58 TVD									
11,995.00	89.39	136.320	4,621.91	-5,251.88	6,572.06	1,883,646.475	2,755,787.408	36.176733012	-107.722547652
330 perp @ 11995 MD 4621.91 TVD									
12,047.00	89.39	136.320	4,622.46	-5,289.49	6,607.97	1,883,608.870	2,755,823.319	36.176629596	-107.722426119
Survey proj. to 12047.00 MD 4622.46 TVD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
412.00	412.00	0.22	0.72	MWD surveys
2,760.00	2,610.37	-75.74	641.62	9 5/8" Casing @ 2760 MD 2610.37 TVD
5,123.66	4,627.00	-423.01	1,692.91	FTP @ 5123.66 MD 4627.00 TVD
5,143.00	4,633.38	-435.38	1,706.35	330 perp @ 5143 MD 4633.38 TVD
11,944.00	4,621.36	-5,215.00	6,536.84	Survey @ 11944 MD 4621.36 TVD
11,964.20	4,621.58	-5,229.61	6,550.79	LTP @ 11964.20 MD 4621.58 TVD
11,995.00	4,621.91	-5,251.88	6,572.06	330 perp @ 11995 MD 4621.91 TVD
12,047.00	4,622.46	-5,289.49	6,607.97	Survey proj. to 12047.00 MD 4622.46 TVD



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	MD Reference:	RKB=6798+13 @ 6813.00ft (Ensign 145)
Well:	Rodeo Unit #511H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Decv0422v16

Checked By: _____ Approved By: _____ Date: _____

WELL NAME: **RODEO UNIT 511H**

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

API Number: 30-045-35875

State: New Mexico

County: San Juan

Surface Elev.: 6,798 ft ASL (GL) 6,811 ft ASL (KB)

Surface Location: 25-23N-09W Sec-Twn- Rng 191 ft FSL 1,365 ft FWL

BH Location: 31-23N-08W Sec-Twn- Rng 234 ft FSL 2646 ft FWL

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

South on US Hwy 550 for 37.8 miles to MM 113.4; Right (Southwest) on CR #7890 for 0.8 miles to fork; Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection; Left (Southeast) remaining on CR #7890 for 0.6 miles to fork; Right (Southwest) on CR #7890 for 1.5 miles to access road; Left on access road for 0.5 mile to Rodeo Unit 511H Pad (three wells planned to be drilled: 511H, 512H, 513H).

QUICK REFERENCE	
Sur TD (MD)	361 ft
Int TD (MD)	2,760 ft
KOP (MD)	4,620 ft
KOP (TVD)	4,303 ft
Target (TVD)	4,659 ft
Curve BUR	10 °/100 ft
POE (MD)	5,252 ft
TD (MD)	12,047ft
Lat Len (ft)	6,696 ft

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	361	13.375	54.5	J-55	BTC	0	361
Intermediate	12.250	2,760	9.625	36.0	J-55	LTC	0	2,760
Production	8.500	12,047	5.500	17.0	P-110	LTC	0	12,047

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	10 Type III:P	12.5	2.14	12.05	0.3627	70%	0	531
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,248	136
Prod. (Lead)	Type I / II	12.4	2.360	13.40	0.2691	65%	0	623
Prod. (Tail)	G:POZ blend	13.3	1.560	7.70	0.2291	10%	3,892	1,301

COMPLETION / PRODUCTION SUMMARY:

Frac: 30 plug-and-perf stages with 270,000 bbls slickwater fluid and 11,000,000 lbs of proppant (estimated)

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

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

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	356	356
Kirtland	441	441
Fruitland	671	671
Pictured Cliffs	1,021	1,021
Lewis	1,146	1,146
Chacra	1,406	1,409
Cliff House	2,431	2,551
Menefee	2,466	2,591
Point Lookout	3,441	3,719
Mancos	3,591	3,892
Gallup (MNCS_A)	3,926	4,280
MNCS_B	4,031	4,401
MNCS_C	4,116	4,500
MNCS_Cms	4,156	4,546
MNCS_D	4,281	4,690
MNCS_E	4,431	4,875
MNCS_F	4,486	4,954
MNCS_G	4,556	5,071
MNCS_H	4,603	5,164
MNCS_I	4,671	5,396
FTP (LP) TARGET	4,659	5,252
LTP (TD) TARGET	4,627	11,948

This document will be submitted with the completion package after the well has been completed.

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

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

ACKNOWLEDGMENTS

Action 180358

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 180358
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

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

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Santa Fe, NM 87505

COMMENTS

Action 180358

COMMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 180358
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

COMMENTS

Created By	Comment	Comment Date
llowe	COA: RT Expires on 04/25/23	1/27/2023

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CONDITIONS

Action 180358

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 180358
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 4/25/2023.	10/26/2023