

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 30-045-38323	⁵ Pool Name BASIN MANCOS		⁶ Pool Code 97232
⁷ Property Code 321253	⁸ Property Name RODEO UNIT		⁹ Well Number #504H

II. ¹⁰ Surface Location

Ul or lot no. H	Section 25	Township 23N	Range 9W	Lot Idn	Feet from the 1471'	North/South Line NORTH	Feet from the 408'	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no. H	Section 29	Township 23N	Range 8W	Lot Idn	Feet from the 2248'	North/South line North	Feet from the 38'	East/West line EAST	County SAN JUAN
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 1/29/2024		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, LLC165	O
373888	HARVEST FOUR CORNERS. LLC	G

IV. Well Completion Data

²¹ Spud Date 10/11/2023	²² Ready Date 1/29/2024	²³ TD 14,565' MD 4842' TVD	²⁴ PBTD 14,444' MD 4849' TVD	²⁵ Perforations ~ 5551' – 14,445'MD ~ 4840' -4849' TVD	²⁶ DHC, MC R-14313	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		377' MD		372 sx - surface
12-1/4"		9-5/8",36#, J-55		2,996' MD		731 sx- surface
8-1/2"		5-1/2",17#, P-110		14,552.3' MD		2,225 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: Marci Fisher		Title: Petroleum Engineer	
Title: Regulatory Professional		Approval Date: 01/29/2024	
E-mail Address: mfisher@enduringresources.com		RT EXP Date: 04/29/2024	
Date: 1/9/2024	Phone: 303-204-9385		



ENDURING RESOURCES IV LLC

January 9, 2024

Re: RODEO UNIT 504H-30-045-38323

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,

A handwritten signature in blue ink, appearing to read "Heather Huntington". The signature is fluid and cursive, with the first name "Heather" being more prominent than the last name "Huntington".

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

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 97232		³ Pool Name BASIN MANCOS	
⁴ Property Code 321253		⁵ Property Name RODEO UNIT			⁶ Well Number 504H
⁷ OGRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6883'

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	25	23N	9W		1471	NORTH	408	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
H	29	23N	8W		2248	NORTH	38	EAST	SAN JUAN

¹² Dedicated Acres 640.97		N/2 - Section 29 N/2 - Section 30		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14313
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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.

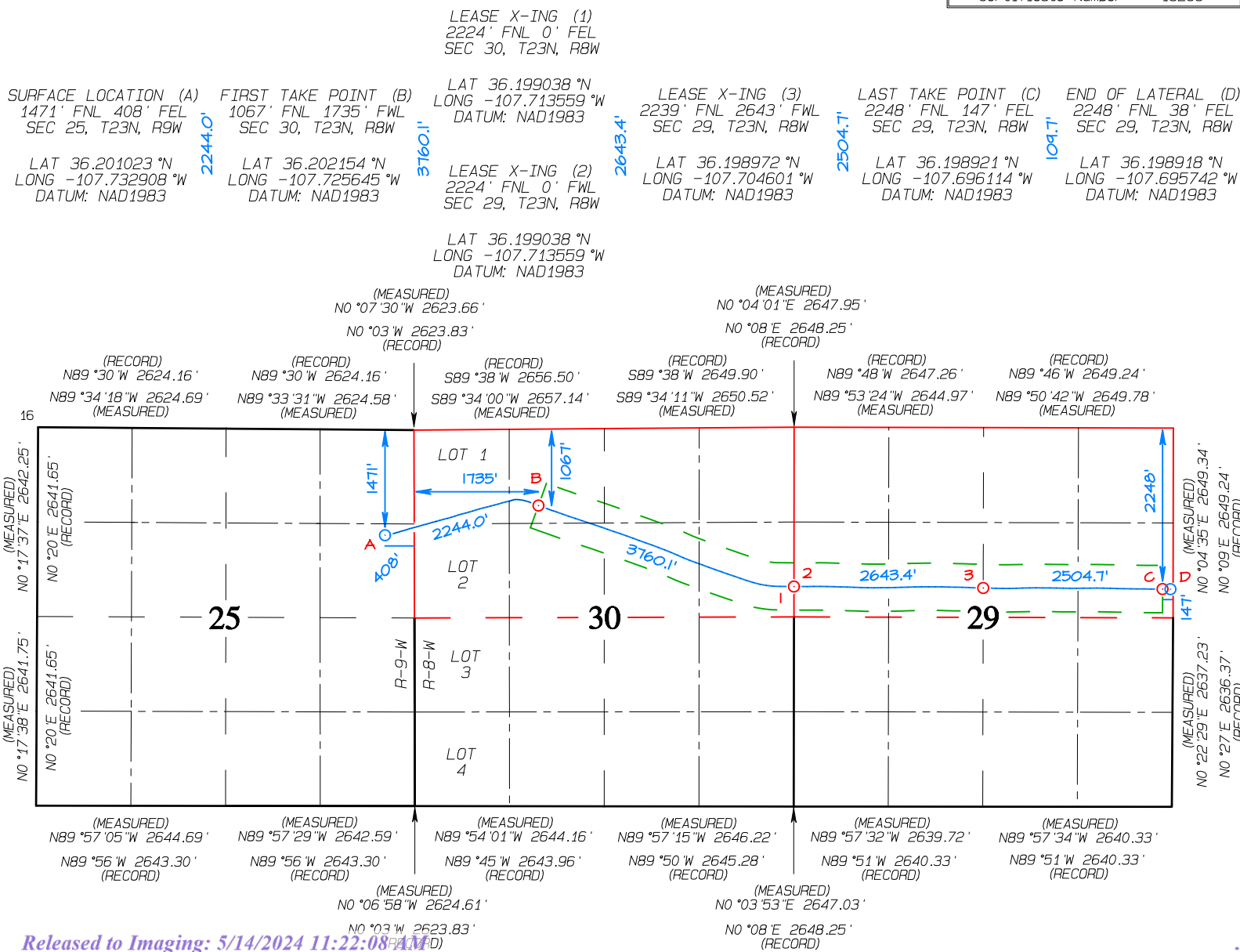
Signature Heather Huntington Date 1/9/24
Printed Name Heather Huntington
E-mail Address hhuntington@enduringresources.com

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 8, 2024
Survey Date: SEPTEMBER 15, 2021

Signature and Seal of Professional Surveyor


JASON C. EDWARDS
Certificate Number 15269





Well: Rodeo Unit #504H
Site: Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev5 RKB=25 ft
Rig: Aztec 1000

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rodeo 504 Int tgt 2265 FNL 330 FEL r4	4878.00	-759.46	5379.73	1891725.713	2758100.368	36.198920000	-107.714677000
Rodeo 504 FTP 1136 FNL 1946 FWL r4	4888.29	346.17	2353.12	1892831.342	2755073.758	36.201967000	-107.724931000
Rodeo 504 LTP 2269 FNL 100 FEL r4	4896.00	-773.29	10903.86	1891711.889	2763624.488	36.198862000	-107.695954000
Rodeo 504 VS=0	4896.00	0.00	0.00	1892485.174	2752720.648	36.201023000	-107.732908000

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=6883+25 @ 6908.00ft (Aztec 1000)
Surface location:
Northing: 1892485.174
Easting: 2752720.648
Latitude: 36.201023000
Longitude: -107.732908000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.47°
ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
450.00	1.14	255.610	449.97	-1.09	-4.26	-4.17	MWD surveys
3047.00	32.01	72.30	2868.16	189.58	702.57	687.94	9 5/8" Casing shoe @ 3047.00 MD 2868.16 TVD
5540.80	70.02	109.804	4834.70	414.00	2142.43	2109.04	FTP @ 5540.80 MD 4834.70 TVD
5770.00	88.44	109.337	4870.98	337.88	2354.39	2325.71	1144 FNL 1946 FWL @ 5770.00 MD 4870.98 TVD
14455.10	92.87	90.326	4848.70	-751.79	10856.76	10882.76	LTP @ 14455.10 MD 4848.70 TVD
14502.00	93.33	90.670	4846.14	-752.23	10903.59	10929.51	Survey @ 14502.00 MD 4846.15 TVD
14502.00	93.33	90.670	4846.14	-752.23	10903.59	10929.51	2248 FNL 100 FEL @ 14502.00 MD 4846.14 TVD
14565.00	93.33	90.670	4842.48	-752.97	10966.48	10992.30	Survey proj. to 14565 MD 4842.48 TVD 2249 FNL 37 FEL

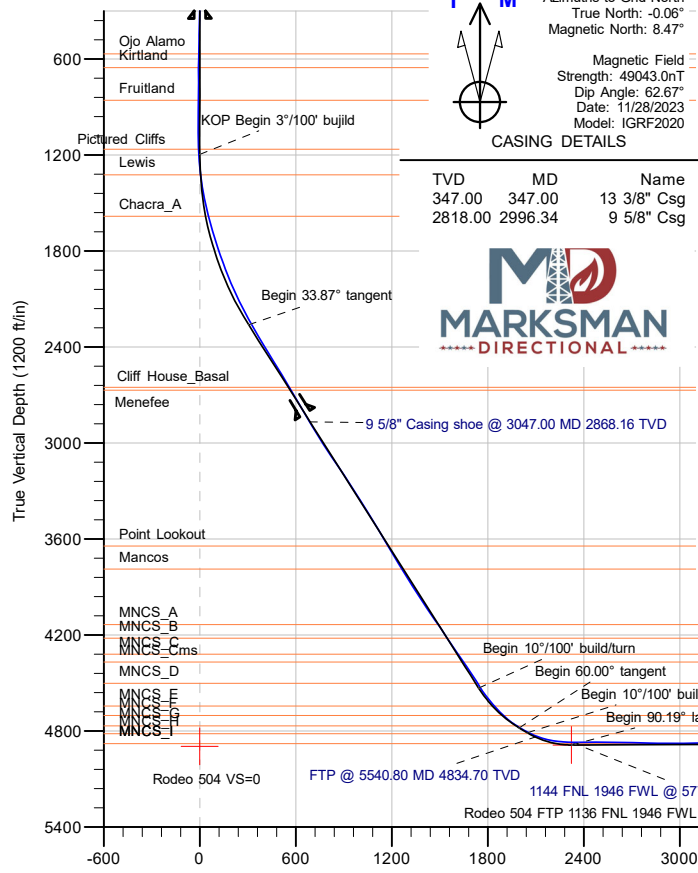
T G M

Azimuths to Grid North
True North: -0.06°
Magnetic North: 8.47°

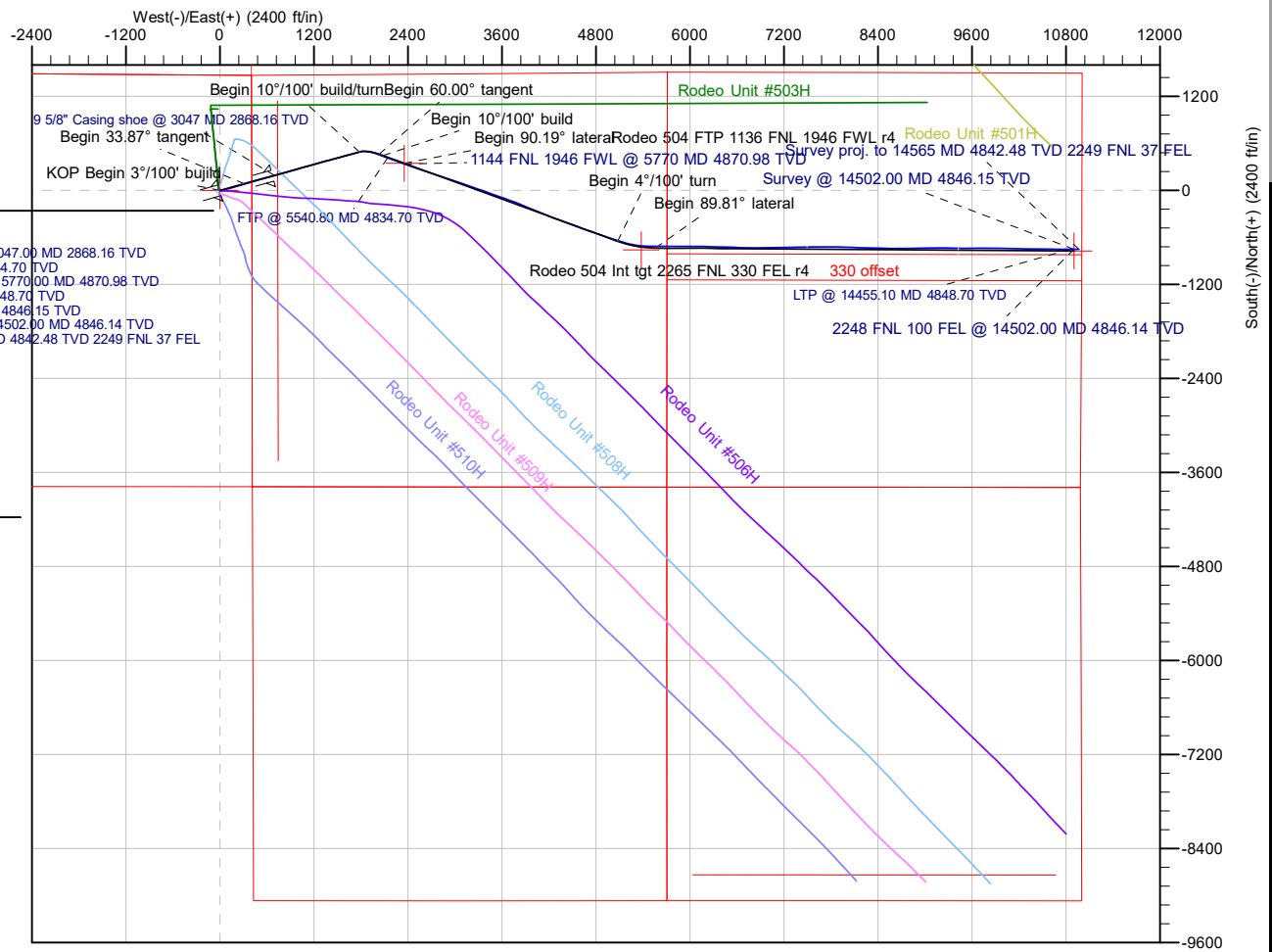
Magnetic Field
Strength: 49043.0nT
Dip Angle: 62.67°
Date: 11/28/2023
Model: IGRF2020

CASING DETAILS

TVD	MD	Name
347.00	347.00	13 3/8" Csg
2818.00	2996.34	9 5/8" Csg



Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	1197.00	0.00	0.000	1197.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' bujild
3	2325.86	33.87	74.615	2261.27	85.97	312.41	3.00	74.61	305.54	Begin 33.87° tangent
4	5061.82	33.87	74.615	4533.06	490.46	1782.39	0.00	0.00	1743.22	Begin 10°/100' build/turn
5	5422.53	60.00	110.067	4781.24	462.61	2034.37	10.00	58.56	1996.55	Begin 60.00° tangent
6	5482.53	60.00	110.067	4811.24	444.78	2083.18	0.00	0.00	2046.50	Begin 10°/100' build
7	5784.43	90.19	110.067	4888.00	345.83	2354.05	10.00	0.00	2323.69	Begin 90.19° lateral
8	8684.43	90.19	110.067	4878.38	-649.21	5077.98	0.00	0.00	5111.19	Begin 4°/100' turn
9	9176.24	89.81	90.398	4878.38	-736.15	5559.60	4.00	-91.09	5597.75	Begin 89.81° lateral
10	14520.66	89.81	90.398	4896.00	-773.29	10903.86	0.00	0.00	10931.25	PBHL





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

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 (500, 501, 503, 504, 506, 508, 509&510)		
Site Position:		Northing:	1,892,465.480 usft
From:	Lat/Long	Easting:	2,752,685.264 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.200969000
		Longitude:	-107.733028000

Well	Rodeo Unit #504H, Surf loc: 1471 FNL 408 FEL Section 25-T23N-R09W		
Well Position	+N/-S	0.00 ft	Northing: 1,892,485.174 usft
	+E/-W	0.00 ft	Easting: 2,752,720.648 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.06 °	Ground Level:	6,883.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/28/2023	8.53	62.67	49,043.04039744

Design	MWD surveys				
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	93.928	

Survey Program	Date	12/29/2023			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,980.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
3,057.00	14,502.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,565.00	14,565.00	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
8.00	0.00	0.000	8.00	0.00	0.00	0.00	0.00	0.00	0.00
450.00	1.14	255.610	449.97	-1.09	-4.26	-4.17	0.26	0.26	0.00
480.00	1.13	256.120	479.96	-1.24	-4.84	-4.74	0.05	-0.03	1.70
538.00	1.17	244.590	537.95	-1.63	-5.93	-5.80	0.40	0.07	-19.88
599.00	1.00	247.650	598.94	-2.10	-6.98	-6.82	0.29	-0.28	5.02
659.00	0.34	275.300	658.94	-2.28	-7.64	-7.47	1.19	-1.10	46.08



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

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)	
720.00	0.36	266.770	719.94	-2.28	-8.01	-7.84	0.09	0.03	-13.98	
780.00	0.44	213.580	779.94	-2.48	-8.33	-8.14	0.61	0.13	-88.65	
840.00	0.15	220.750	839.93	-2.73	-8.51	-8.30	0.49	-0.48	11.95	
899.00	0.17	221.900	898.93	-2.85	-8.62	-8.40	0.03	0.03	1.95	
958.00	0.43	212.760	957.93	-3.10	-8.79	-8.56	0.45	0.44	-15.49	
1,024.00	0.50	191.540	1,023.93	-3.59	-8.99	-8.72	0.28	0.11	-32.15	
1,087.00	0.32	192.710	1,086.93	-4.04	-9.08	-8.78	0.29	-0.29	1.86	
1,150.00	1.20	107.130	1,149.92	-4.40	-8.49	-8.17	1.93	1.40	-135.84	
1,213.00	3.58	90.070	1,212.87	-4.60	-5.89	-5.56	3.90	3.78	-27.08	
1,274.00	5.75	87.500	1,273.66	-4.47	-0.93	-0.62	3.57	3.56	-4.21	
1,339.00	7.82	86.050	1,338.20	-4.02	6.73	6.99	3.20	3.18	-2.23	
1,402.00	9.68	82.830	1,400.47	-3.06	16.26	16.44	3.05	2.95	-5.11	
1,465.00	11.60	78.660	1,462.38	-1.16	27.73	27.75	3.28	3.05	-6.62	
1,528.00	13.21	76.090	1,523.91	1.82	40.93	40.71	2.70	2.56	-4.08	
1,591.00	14.78	75.210	1,585.04	5.60	55.69	55.17	2.51	2.49	-1.40	
1,655.00	16.68	74.440	1,646.64	10.15	72.43	71.57	2.99	2.97	-1.20	
1,718.00	18.19	73.970	1,706.74	15.29	90.59	89.33	2.41	2.40	-0.75	
1,781.00	19.25	74.050	1,766.41	20.86	110.03	108.34	1.68	1.68	0.13	
1,844.00	20.49	73.870	1,825.66	26.78	130.61	128.47	1.97	1.97	-0.29	
1,907.00	21.55	73.350	1,884.46	33.16	152.29	149.66	1.71	1.68	-0.83	
1,970.00	22.68	73.110	1,942.83	40.00	174.99	171.84	1.80	1.79	-0.38	
2,032.00	24.05	73.750	1,999.74	47.01	198.56	194.88	2.25	2.21	1.03	
2,096.00	26.04	73.600	2,057.72	54.62	224.56	220.29	3.11	3.11	-0.23	
2,159.00	27.55	73.120	2,113.95	62.76	251.77	246.88	2.42	2.40	-0.76	
2,222.00	29.15	73.610	2,169.40	71.32	280.43	274.89	2.57	2.54	0.78	
2,285.00	30.48	73.770	2,224.06	80.12	310.50	304.28	2.11	2.11	0.25	
2,348.00	31.66	74.190	2,278.02	89.09	341.75	334.84	1.90	1.87	0.67	
2,411.00	32.00	74.120	2,331.54	98.16	373.71	366.11	0.54	0.54	-0.11	
2,475.00	32.28	74.190	2,385.74	107.45	406.46	398.15	0.44	0.44	0.11	
2,538.00	32.66	74.270	2,438.89	116.65	439.01	429.99	0.61	0.60	0.13	
2,601.00	33.04	74.650	2,491.81	125.80	471.94	462.21	0.69	0.60	0.60	
2,664.00	33.19	74.620	2,544.58	134.92	505.13	494.70	0.24	0.24	-0.05	
2,727.00	33.02	74.700	2,597.35	144.02	538.31	527.18	0.28	-0.27	0.13	
2,790.00	32.67	74.490	2,650.28	153.10	571.25	559.42	0.58	-0.56	-0.33	
2,854.00	31.91	74.200	2,704.38	162.33	604.17	591.63	1.21	-1.19	-0.45	
2,917.00	31.85	74.340	2,757.88	171.35	636.20	622.97	0.15	-0.10	0.22	
2,980.00	32.01	74.730	2,811.35	180.23	668.31	654.40	0.41	0.25	0.62	
3,057.00	32.01	74.730	2,876.64	190.98	707.69	692.94	0.00	0.00	0.00	
3,073.00	31.52	72.740	2,890.25	193.34	715.77	700.85	7.23	-3.06	-12.44	
3,167.00	32.99	75.230	2,969.74	207.15	763.99	748.00	2.11	1.56	2.65	
3,261.00	35.80	74.970	3,047.30	220.81	815.29	798.25	2.99	2.99	-0.28	
3,356.00	35.65	74.710	3,124.42	235.32	868.83	850.67	0.22	-0.16	-0.27	
3,450.00	35.20	73.980	3,201.02	250.02	921.30	902.01	0.66	-0.48	-0.78	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,545.00	34.61	72.710	3,278.93	265.59	973.38	952.90	0.99	-0.62	-1.34
3,639.00	33.91	71.310	3,356.62	281.93	1,023.71	1,001.99	1.12	-0.74	-1.49
3,734.00	33.71	76.450	3,435.57	296.60	1,074.45	1,051.61	3.02	-0.21	5.41
3,828.00	32.75	75.340	3,514.20	309.15	1,124.40	1,100.59	1.21	-1.02	-1.18
3,922.00	30.91	72.910	3,594.07	322.68	1,172.09	1,147.23	2.39	-1.96	-2.59
4,017.00	33.46	73.360	3,674.46	337.35	1,220.51	1,194.53	2.70	2.68	0.47
4,111.00	33.52	73.330	3,752.85	352.22	1,270.20	1,243.09	0.07	0.06	-0.03
4,205.00	32.52	74.210	3,831.67	366.54	1,319.38	1,291.17	1.18	-1.06	0.94
4,300.00	34.50	76.840	3,910.88	379.61	1,370.16	1,340.94	2.58	2.08	2.77
4,394.00	34.93	75.170	3,988.15	392.56	1,422.10	1,391.87	1.11	0.46	-1.78
4,489.00	35.04	74.690	4,065.98	406.73	1,474.69	1,443.37	0.31	0.12	-0.51
4,583.00	36.53	75.560	4,142.24	420.83	1,527.82	1,495.40	1.67	1.59	0.93
4,677.00	34.48	73.150	4,218.76	435.52	1,580.38	1,546.84	2.64	-2.18	-2.56
4,771.00	36.40	75.560	4,295.34	450.19	1,632.86	1,598.19	2.53	2.04	2.56
4,866.00	35.75	75.820	4,372.13	464.02	1,687.07	1,651.32	0.70	-0.68	0.27
4,960.00	35.71	75.270	4,448.43	477.72	1,740.22	1,703.41	0.34	-0.04	-0.59
4,991.00	34.53	74.250	4,473.79	482.40	1,757.43	1,720.26	4.25	-3.81	-3.29
5,022.00	33.06	72.550	4,499.55	487.32	1,773.95	1,736.40	5.64	-4.74	-5.48
5,054.00	32.95	74.370	4,526.39	492.29	1,790.66	1,752.73	3.12	-0.34	5.69
5,085.00	35.11	80.840	4,552.09	495.98	1,807.59	1,769.37	13.59	6.97	20.87
5,116.00	37.02	87.200	4,577.15	497.85	1,825.72	1,787.33	13.55	6.16	20.52
5,148.00	38.77	92.660	4,602.41	497.86	1,845.36	1,806.92	11.82	5.47	17.06
5,179.00	40.29	95.330	4,626.32	496.48	1,865.03	1,826.65	7.35	4.90	8.61
5,210.00	42.07	96.760	4,649.65	494.32	1,885.33	1,847.04	6.50	5.74	4.61
5,242.00	43.54	98.390	4,673.13	491.45	1,906.88	1,868.74	5.75	4.59	5.09
5,273.00	45.95	101.740	4,695.15	487.63	1,928.36	1,890.43	10.87	7.77	10.81
5,305.00	49.22	104.810	4,716.73	482.19	1,951.34	1,913.73	12.43	10.22	9.59
5,336.00	52.59	107.010	4,736.28	475.59	1,974.47	1,937.25	12.19	10.87	7.10
5,368.00	55.96	109.240	4,754.97	467.50	1,999.15	1,962.43	11.95	10.53	6.97
5,399.00	59.43	110.390	4,771.53	458.61	2,023.79	1,987.62	11.62	11.19	3.71
5,431.00	61.45	110.920	4,787.32	448.79	2,049.84	2,014.28	6.47	6.31	1.66
5,462.00	61.97	110.910	4,802.01	439.05	2,075.33	2,040.39	1.68	1.68	-0.03
5,494.00	64.24	110.670	4,816.48	428.92	2,102.01	2,067.70	7.13	7.09	-0.75
5,525.00	67.97	110.160	4,829.04	419.04	2,128.57	2,094.87	12.13	12.03	-1.65
5,556.00	71.99	109.470	4,839.65	409.17	2,155.97	2,122.88	13.14	12.97	-2.23
5,588.00	75.48	109.780	4,848.61	398.85	2,184.90	2,152.45	10.95	10.91	0.97
5,619.00	77.68	110.160	4,855.80	388.55	2,213.24	2,181.42	7.20	7.10	1.23
5,651.00	80.58	110.030	4,861.84	377.76	2,242.75	2,211.60	9.07	9.06	-0.41
5,682.00	83.80	109.630	4,866.05	367.34	2,271.64	2,241.14	10.47	10.39	-1.29
5,714.00	86.87	109.770	4,868.65	356.59	2,301.66	2,271.83	9.60	9.59	0.44
5,745.00	87.67	109.500	4,870.13	346.18	2,330.82	2,301.63	2.72	2.58	-0.87
5,808.00	89.61	109.090	4,871.62	325.37	2,390.26	2,362.36	3.15	3.08	-0.65



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,902.00	91.79	109.870	4,870.48	294.03	2,478.87	2,452.91	2.46	2.32	0.83	
5,996.00	88.80	108.510	4,869.99	263.14	2,567.63	2,543.58	3.49	-3.18	-1.45	
6,091.00	88.70	108.200	4,872.06	233.23	2,657.78	2,635.56	0.34	-0.11	-0.33	
6,185.00	88.83	108.360	4,874.09	203.75	2,747.02	2,726.61	0.22	0.14	0.17	
6,280.00	88.37	108.120	4,876.41	174.03	2,837.21	2,818.63	0.55	-0.48	-0.25	
6,374.00	89.88	108.540	4,877.85	144.47	2,926.43	2,909.66	1.67	1.61	0.45	
6,468.00	90.47	109.250	4,877.56	114.03	3,015.37	3,000.47	0.98	0.63	0.76	
6,563.00	90.92	109.190	4,876.41	82.76	3,105.06	3,092.10	0.48	0.47	-0.06	
6,657.00	91.23	109.290	4,874.64	51.79	3,193.80	3,182.75	0.35	0.33	0.11	
6,752.00	91.05	108.220	4,872.75	21.25	3,283.73	3,274.57	1.14	-0.19	-1.13	
6,845.00	89.73	110.380	4,872.12	-9.49	3,371.50	3,364.23	2.72	-1.42	2.32	
6,939.00	90.00	109.770	4,872.34	-41.75	3,459.79	3,454.52	0.71	0.29	-0.65	
7,034.00	90.40	109.790	4,872.01	-73.90	3,549.18	3,545.91	0.42	0.42	0.02	
7,128.00	90.78	109.610	4,871.04	-105.58	3,637.67	3,636.36	0.45	0.40	-0.19	
7,223.00	90.94	109.630	4,869.62	-137.48	3,727.15	3,727.81	0.17	0.17	0.02	
7,317.00	90.15	111.050	4,868.72	-170.15	3,815.28	3,817.97	1.73	-0.84	1.51	
7,411.00	90.59	111.180	4,868.12	-204.01	3,902.97	3,907.77	0.49	0.47	0.14	
7,505.00	90.95	112.340	4,866.85	-238.86	3,990.26	3,997.25	1.29	0.38	1.23	
7,599.00	91.26	114.010	4,865.04	-275.84	4,076.65	4,085.97	1.81	0.33	1.78	
7,693.00	91.34	113.920	4,862.91	-314.01	4,162.53	4,174.26	0.13	0.09	-0.10	
7,788.00	90.04	110.190	4,861.76	-349.67	4,250.55	4,264.52	4.16	-1.37	-3.93	
7,882.00	90.33	109.710	4,861.46	-381.75	4,338.91	4,354.87	0.60	0.31	-0.51	
7,977.00	90.74	110.090	4,860.57	-414.08	4,428.24	4,446.20	0.59	0.43	0.40	
8,072.00	91.35	110.290	4,858.84	-446.86	4,517.38	4,537.38	0.68	0.64	0.21	
8,166.00	91.56	109.680	4,856.45	-478.98	4,605.69	4,627.68	0.69	0.22	-0.65	
8,260.00	91.44	109.160	4,853.99	-510.22	4,694.31	4,718.24	0.57	-0.13	-0.55	
8,355.00	91.56	109.020	4,851.50	-541.28	4,784.06	4,809.90	0.19	0.13	-0.15	
8,450.00	91.35	108.870	4,849.09	-572.12	4,873.88	4,901.63	0.27	-0.22	-0.16	
8,544.00	91.29	108.850	4,846.93	-602.49	4,962.81	4,992.43	0.07	-0.06	-0.02	
8,637.00	91.54	108.960	4,844.63	-632.62	5,050.77	5,082.24	0.29	0.27	0.12	
8,732.00	91.50	106.020	4,842.11	-661.15	5,141.34	5,174.55	3.09	-0.04	-3.09	
8,827.00	91.84	102.610	4,839.34	-684.63	5,233.33	5,267.94	3.61	0.36	-3.59	
8,921.00	91.87	98.140	4,836.30	-701.55	5,325.73	5,361.27	4.75	0.03	-4.76	
9,015.00	91.26	93.710	4,833.73	-711.24	5,419.16	5,455.16	4.76	-0.65	-4.71	
9,109.00	91.37	89.890	4,831.57	-714.19	5,513.08	5,549.05	4.06	0.12	-4.06	
9,203.00	90.00	91.160	4,830.45	-715.05	5,607.06	5,642.87	1.99	-1.46	1.35	
9,297.00	89.73	90.240	4,830.67	-716.20	5,701.05	5,736.72	1.02	-0.29	-0.98	
9,391.00	89.64	90.030	4,831.18	-716.42	5,795.05	5,830.51	0.24	-0.10	-0.22	
9,485.00	90.03	89.860	4,831.46	-716.33	5,889.05	5,924.29	0.45	0.41	-0.18	
9,579.00	90.19	89.450	4,831.27	-715.77	5,983.05	6,018.02	0.47	0.17	-0.44	
9,674.00	90.64	89.740	4,830.59	-715.10	6,078.04	6,112.75	0.56	0.47	0.31	
9,768.00	88.90	91.640	4,830.96	-716.23	6,172.03	6,206.59	2.74	-1.85	2.02	
9,862.00	89.00	91.860	4,832.69	-719.10	6,265.97	6,300.51	0.26	0.11	0.23	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,957.00	88.90	91.480	4,834.43	-721.87	6,360.91	6,395.42	0.41	-0.11	-0.40
10,051.00	88.79	91.270	4,836.32	-724.12	6,454.86	6,489.31	0.25	-0.12	-0.22
10,146.00	89.45	91.960	4,837.78	-726.80	6,549.81	6,584.22	1.01	0.69	0.73
10,240.00	90.25	92.660	4,838.03	-730.59	6,643.74	6,678.18	1.13	0.85	0.74
10,334.00	91.46	90.300	4,836.62	-733.02	6,737.69	6,772.07	2.82	1.29	-2.51
10,428.00	91.90	90.300	4,833.87	-733.51	6,831.64	6,865.84	0.47	0.47	0.00
10,523.00	89.70	89.480	4,832.54	-733.32	6,926.63	6,960.59	2.47	-2.32	-0.86
10,617.00	89.76	89.120	4,832.99	-732.18	7,020.62	7,054.28	0.39	0.06	-0.38
10,711.00	89.77	88.730	4,833.37	-730.41	7,114.60	7,147.92	0.42	0.01	-0.41
10,806.00	89.65	88.390	4,833.85	-728.03	7,209.57	7,242.51	0.38	-0.13	-0.36
10,900.00	89.74	88.270	4,834.35	-725.29	7,303.53	7,336.06	0.16	0.10	-0.13
10,994.00	89.86	88.440	4,834.68	-722.59	7,397.49	7,429.61	0.22	0.13	0.18
11,088.00	89.00	89.350	4,835.62	-720.77	7,491.47	7,523.24	1.33	-0.91	0.97
11,182.00	89.68	90.210	4,836.70	-720.41	7,585.46	7,616.99	1.17	0.72	0.91
11,277.00	88.92	88.790	4,837.86	-719.59	7,680.44	7,711.70	1.70	-0.80	-1.49
11,371.00	89.96	92.210	4,838.78	-720.41	7,774.42	7,805.51	3.80	1.11	3.64
11,465.00	90.11	92.120	4,838.72	-723.96	7,868.35	7,899.46	0.19	0.16	-0.10
11,560.00	89.29	89.970	4,839.22	-725.69	7,963.33	7,994.34	2.42	-0.86	-2.26
11,654.00	89.69	92.460	4,840.05	-727.68	8,057.30	8,088.22	2.68	0.43	2.65
11,749.00	89.19	91.700	4,840.98	-731.13	8,152.23	8,183.16	0.96	-0.53	-0.80
11,843.00	89.45	91.500	4,842.10	-733.75	8,246.19	8,277.08	0.35	0.28	-0.21
11,937.00	89.89	91.580	4,842.64	-736.28	8,340.15	8,371.00	0.48	0.47	0.09
12,032.00	90.43	91.590	4,842.37	-738.91	8,435.11	8,465.92	0.57	0.57	0.01
12,125.00	90.90	91.510	4,841.30	-741.42	8,528.07	8,558.83	0.51	0.51	-0.09
12,220.00	92.81	90.520	4,838.22	-743.11	8,623.00	8,653.65	2.26	2.01	-1.04
12,314.00	89.08	89.230	4,836.67	-742.90	8,716.97	8,747.38	4.20	-3.97	-1.37
12,408.00	88.51	88.270	4,838.65	-740.85	8,810.93	8,840.98	1.19	-0.61	-1.02
12,502.00	88.87	88.750	4,840.80	-738.41	8,904.87	8,934.53	0.64	0.38	0.51
12,596.00	88.63	88.370	4,842.85	-736.05	8,998.82	9,028.10	0.48	-0.26	-0.40
12,690.00	89.75	89.910	4,844.18	-734.63	9,092.79	9,121.76	2.03	1.19	1.64
12,784.00	90.66	90.900	4,843.84	-735.30	9,186.79	9,215.58	1.43	0.97	1.05
12,878.00	91.15	90.780	4,842.35	-736.68	9,280.77	9,309.43	0.54	0.52	-0.13
12,972.00	91.26	90.860	4,840.38	-738.02	9,374.74	9,403.27	0.14	0.12	0.09
13,066.00	91.25	90.970	4,838.32	-739.52	9,468.70	9,497.12	0.12	-0.01	0.12
13,160.00	91.10	90.280	4,836.39	-740.55	9,562.68	9,590.94	0.75	-0.16	-0.73
13,254.00	89.84	89.890	4,835.62	-740.69	9,656.67	9,684.72	1.40	-1.34	-0.41
13,348.00	88.82	89.460	4,836.72	-740.15	9,750.66	9,778.46	1.18	-1.09	-0.46
13,442.00	89.35	88.870	4,838.22	-738.78	9,844.64	9,872.12	0.84	0.56	-0.63
13,536.00	87.06	90.740	4,841.16	-738.46	9,938.58	9,965.82	3.14	-2.44	1.99
13,630.00	86.43	91.050	4,846.50	-739.93	10,032.42	10,059.54	0.75	-0.67	0.33
13,724.00	86.67	91.410	4,852.16	-741.94	10,126.22	10,153.26	0.46	0.26	0.38
13,819.00	86.88	91.390	4,857.50	-744.26	10,221.05	10,248.02	0.22	0.22	-0.02



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

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)
13,913.00	88.23	91.540	4,861.51	-746.66	10,314.93	10,341.85	1.44	1.44	0.16
14,008.00	91.03	90.720	4,862.13	-748.54	10,409.90	10,436.72	3.07	2.95	-0.86
14,102.00	91.26	90.510	4,860.25	-749.54	10,503.87	10,530.54	0.33	0.24	-0.22
14,196.00	91.62	90.750	4,857.89	-750.58	10,597.84	10,624.36	0.46	0.38	0.26
14,290.00	91.97	90.620	4,854.94	-751.70	10,691.78	10,718.16	0.40	0.37	-0.14
14,384.00	91.98	89.570	4,851.70	-751.86	10,785.73	10,811.89	1.12	0.01	-1.12
14,478.00	93.15	90.570	4,847.50	-751.97	10,879.63	10,905.58	1.64	1.24	1.06
14,502.00	93.33	90.670	4,846.14	-752.23	10,903.59	10,929.51	0.86	0.75	0.42
14,565.00	93.33	90.670	4,842.48	-752.97	10,966.48	10,992.30	0.00	0.00	0.00

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
450.00	449.97	-1.09	-4.26	MWD surveys
3,047.00	2,868.16	189.58	702.57	9 5/8" Casing shoe @ 3047.00 MD 2868.16 TVD
5,540.80	4,834.70	414.00	2,142.43	FTP @ 5540.80 MD 4834.70 TVD
5,770.00	4,870.98	337.88	2,354.39	1144 FNL 1946 FWL @ 5770.00 MD 4870.98 TVD
14,455.10	4,848.70	-751.79	10,856.76	LTP @ 14455.10 MD 4848.70 TVD
14,502.00	4,846.14	-752.23	10,903.59	Survey @ 14502.00 MD 4846.15 TVD
14,502.00	4,846.14	-752.23	10,903.59	2248 FNL 100 FEL @ 14502.00 MD 4846.14 TVD
14,565.00	4,842.48	-752.97	10,966.48	Survey proj. to 14565 MD 4842.48 TVD 2249 FNL 37 FEL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

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 (500, 501, 503, 504, 506, 508, 509&510)				
Site Position:		Northing:	1,892,465.480 usft	Latitude:	36.200969000
From:	Lat/Long	Easting:	2,752,685.264 usft	Longitude:	-107.733028000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well	Rodeo Unit #504H, Surf loc: 1471 FNL 408 FEL Section 25-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,892,485.174 usft	Latitude:	36.201023000
	+E/-W	0.00 ft	Easting:	2,752,720.648 usft	Longitude:	-107.732908000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,883.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/28/2023	8.53	62.67	49,043.04039744

Design	MWD surveys				
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	93.928	

Survey Program	Date	12/29/2023			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,980.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
3,057.00	14,502.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
14,565.00	14,565.00	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	1,892,485.174	2,752,720.648	36.201023000	-107.732908000	
8.00	0.00	0.000	8.00	0.00	0.00	1,892,485.174	2,752,720.648	36.201023000	-107.732908000	
450.00	1.14	255.610	449.97	-1.09	-4.26	1,892,484.081	2,752,716.389	36.201020010	-107.732922440	
480.00	1.13	256.120	479.96	-1.24	-4.84	1,892,483.936	2,752,715.813	36.201019613	-107.732924393	
538.00	1.17	244.590	537.95	-1.63	-5.93	1,892,483.545	2,752,714.723	36.201018541	-107.732928089	
599.00	1.00	247.650	598.94	-2.10	-6.98	1,892,483.075	2,752,713.668	36.201017254	-107.732931666	
659.00	0.34	275.300	658.94	-2.28	-7.64	1,892,482.892	2,752,713.006	36.201016754	-107.732933909	
720.00	0.36	266.770	719.94	-2.28	-8.01	1,892,482.898	2,752,712.635	36.201016771	-107.732935168	
780.00	0.44	213.580	779.94	-2.48	-8.33	1,892,482.696	2,752,712.319	36.201016216	-107.732936239	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
840.00	0.15	220.750	839.93	-2.73	-8.51	1,892,482.444	2,752,712.140	36.201015526	-107.732936845
899.00	0.17	221.900	898.93	-2.85	-8.62	1,892,482.321	2,752,712.031	36.201015186	-107.732937215
958.00	0.43	212.760	957.93	-3.10	-8.79	1,892,482.069	2,752,711.853	36.201014496	-107.732937820
1,024.00	0.50	191.540	1,023.93	-3.59	-8.99	1,892,481.579	2,752,711.662	36.201013150	-107.732938471
1,087.00	0.32	192.710	1,086.93	-4.04	-9.08	1,892,481.138	2,752,711.568	36.201011939	-107.732938790
1,150.00	1.20	107.130	1,149.92	-4.40	-8.49	1,892,480.772	2,752,712.160	36.201010932	-107.732936786
1,213.00	3.58	90.070	1,212.87	-4.60	-5.89	1,892,480.575	2,752,714.757	36.201010384	-107.732927982
1,274.00	5.75	87.500	1,273.66	-4.47	-0.93	1,892,480.706	2,752,719.715	36.201010730	-107.732911177
1,339.00	7.82	86.050	1,338.20	-4.02	6.73	1,892,481.153	2,752,727.381	36.201011935	-107.732885194
1,402.00	9.68	82.830	1,400.47	-3.06	16.26	1,892,482.109	2,752,736.912	36.201014535	-107.732852884
1,465.00	11.60	78.660	1,462.38	-1.16	27.73	1,892,484.016	2,752,748.379	36.201019741	-107.732814011
1,528.00	13.21	76.090	1,523.91	1.82	40.93	1,892,486.992	2,752,761.578	36.201027879	-107.732769265
1,591.00	14.78	75.210	1,585.04	5.60	55.69	1,892,490.774	2,752,776.335	36.201038226	-107.732719231
1,655.00	16.68	74.440	1,646.64	10.15	72.43	1,892,495.322	2,752,793.078	36.201050673	-107.732662467
1,718.00	18.19	73.970	1,706.74	15.29	90.59	1,892,500.463	2,752,811.240	36.201064744	-107.732600890
1,781.00	19.25	74.050	1,766.41	20.86	110.03	1,892,506.033	2,752,830.677	36.201079988	-107.732534991
1,844.00	20.49	73.870	1,825.66	26.78	130.61	1,892,511.950	2,752,851.256	36.201096185	-107.732054424
1,907.00	21.55	73.350	1,884.46	33.16	152.29	1,892,518.329	2,752,872.934	36.201113646	-107.732391721
1,970.00	22.68	73.110	1,942.83	40.00	174.99	1,892,525.173	2,752,895.642	36.201132383	-107.732314730
2,032.00	24.05	73.750	1,999.74	47.01	198.56	1,892,532.181	2,752,919.209	36.201151568	-107.732234826
2,096.00	26.04	73.600	2,057.72	54.62	224.56	1,892,539.798	2,752,945.208	36.201172416	-107.732146677
2,159.00	27.55	73.120	2,113.95	62.76	251.77	1,892,547.933	2,752,972.417	36.201194687	-107.732054424
2,222.00	29.15	73.610	2,169.40	71.32	280.43	1,892,556.494	2,753,001.081	36.201218122	-107.731957241
2,285.00	30.48	73.770	2,224.06	80.12	310.50	1,892,565.289	2,753,031.144	36.201242198	-107.731855314
2,348.00	31.66	74.190	2,278.02	89.09	341.75	1,892,574.260	2,753,062.394	36.201266751	-107.731749361
2,411.00	32.00	74.120	2,331.54	98.16	373.71	1,892,583.332	2,753,094.358	36.201291581	-107.731640990
2,475.00	32.28	74.190	2,385.74	107.45	406.46	1,892,592.628	2,753,127.111	36.201317024	-107.731529941
2,538.00	32.66	74.270	2,438.89	116.65	439.01	1,892,601.820	2,753,159.660	36.201342181	-107.731419586
2,601.00	33.04	74.650	2,491.81	125.80	471.94	1,892,610.975	2,753,192.585	36.201367235	-107.731307958
2,664.00	33.19	74.620	2,544.58	134.92	505.13	1,892,620.095	2,753,225.773	36.201392192	-107.731195437
2,727.00	33.02	74.700	2,597.35	144.02	538.31	1,892,629.197	2,753,258.956	36.201417102	-107.731082932
2,790.00	32.67	74.490	2,650.28	153.10	571.25	1,892,638.274	2,753,291.897	36.201441940	-107.730971246
2,854.00	31.91	74.200	2,704.38	162.33	604.17	1,892,647.498	2,753,324.818	36.201467186	-107.730859631
2,917.00	31.85	74.340	2,757.88	171.35	636.20	1,892,656.519	2,753,356.845	36.201491873	-107.730751045
2,980.00	32.01	74.730	2,811.35	180.23	668.31	1,892,665.403	2,753,388.958	36.201516186	-107.730642168
3,057.00	32.01	74.730	2,876.64	190.98	707.69	1,892,676.153	2,753,428.332	36.201545601	-107.730508673
3,073.00	31.52	72.740	2,890.25	193.34	715.77	1,892,678.510	2,753,436.417	36.201552055	-107.730481260
3,167.00	32.99	75.230	2,969.74	207.15	763.99	1,892,692.327	2,753,484.632	36.201589869	-107.730317788
3,261.00	35.80	74.970	3,047.30	220.81	815.29	1,892,705.983	2,753,535.940	36.201627235	-107.730143832
3,356.00	35.65	74.710	3,124.42	235.32	868.83	1,892,720.489	2,753,589.480	36.201666927	-107.729962310
3,450.00	35.20	73.980	3,201.02	250.02	921.30	1,892,735.190	2,753,641.944	36.201707158	-107.729784432
3,545.00	34.61	72.710	3,278.93	265.59	973.38	1,892,750.765	2,753,694.022	36.201749791	-107.729607858
3,639.00	33.91	71.310	3,356.62	281.93	1,023.71	1,892,767.102	2,753,744.351	36.201794522	-107.729437212
3,734.00	33.71	76.450	3,435.57	296.60	1,074.45	1,892,781.773	2,753,795.092	36.201834676	-107.729265174
3,828.00	32.75	75.340	3,514.20	309.15	1,124.40	1,892,794.320	2,753,845.050	36.201868996	-107.729095798
3,922.00	30.91	72.910	3,594.07	322.68	1,172.09	1,892,807.851	2,753,892.732	36.201906028	-107.728934134
4,017.00	33.46	73.360	3,674.46	337.35	1,220.51	1,892,822.524	2,753,941.155	36.201946191	-107.728769951
4,111.00	33.52	73.330	3,752.85	352.22	1,270.20	1,892,837.390	2,753,990.847	36.201986882	-107.728601466
4,205.00	32.52	74.210	3,831.67	366.54	1,319.38	1,892,851.711	2,754,040.026	36.202026078	-107.728434724
4,300.00	34.50	76.840	3,910.88	379.61	1,370.16	1,892,864.787	2,754,090.804	36.202061848	-107.728262567
4,394.00	34.93	75.170	3,988.15	392.56	1,422.10	1,892,877.736	2,754,142.742	36.202097265	-107.728086477
4,489.00	35.04	74.690	4,065.98	406.73	1,474.69	1,892,891.898	2,754,195.337	36.202136013	-107.727908154
4,583.00	36.53	75.560	4,142.24	420.83	1,527.82	1,892,906.000	2,754,248.460	36.202174595	-107.727728042
4,677.00	34.48	73.150	4,218.76	435.52	1,580.38	1,892,920.692	2,754,301.026	36.202214796	-107.727549817



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,771.00	36.40	75.560	4,295.34	450.19	1,632.86	1,892,935.361	2,754,353.509	36.202254938	-107.727371876
4,866.00	35.75	75.820	4,372.13	464.02	1,687.07	1,892,949.189	2,754,407.712	36.202292761	-107.727188102
4,960.00	35.71	75.270	4,448.43	477.72	1,740.22	1,892,962.891	2,754,460.867	36.202330242	-107.727007885
4,991.00	34.53	74.250	4,473.79	482.40	1,757.43	1,892,967.576	2,754,478.073	36.202343061	-107.726949546
5,022.00	33.06	72.550	4,499.55	487.32	1,773.95	1,892,972.497	2,754,494.597	36.202356529	-107.726893521
5,054.00	32.95	74.370	4,526.39	492.29	1,790.66	1,892,977.459	2,754,511.305	36.202370110	-107.726836872
5,085.00	35.11	80.840	4,552.09	495.98	1,807.59	1,892,981.152	2,754,528.232	36.202380202	-107.726779483
5,116.00	37.02	87.200	4,577.15	497.85	1,825.72	1,892,983.027	2,754,546.363	36.202385301	-107.726718023
5,148.00	38.77	92.660	4,602.41	497.86	1,845.36	1,892,983.033	2,754,566.000	36.202385257	-107.726651462
5,179.00	40.29	95.330	4,626.32	496.48	1,865.03	1,892,981.651	2,754,585.678	36.202381402	-107.726584769
5,210.00	42.07	96.760	4,649.65	494.32	1,885.33	1,892,979.498	2,754,605.974	36.202375424	-107.726515986
5,242.00	43.54	98.390	4,673.13	491.45	1,906.88	1,892,976.627	2,754,627.525	36.202367473	-107.726442948
5,273.00	45.95	101.740	4,695.15	487.63	1,928.36	1,892,972.801	2,754,649.002	36.202356899	-107.726370168
5,305.00	49.22	104.810	4,716.73	482.19	1,951.34	1,892,967.363	2,754,671.983	36.202341888	-107.726292293
5,336.00	52.59	107.010	4,736.28	475.59	1,974.47	1,892,960.758	2,754,695.112	36.202323675	-107.726213924
5,368.00	55.96	109.240	4,754.97	467.50	1,999.15	1,892,952.669	2,754,719.792	36.202301377	-107.726130302
5,399.00	59.43	110.390	4,771.53	458.61	2,023.79	1,892,943.783	2,754,744.436	36.202276894	-107.726046805
5,431.00	61.45	110.920	4,787.32	448.79	2,049.84	1,892,933.964	2,754,770.480	36.202249841	-107.725958567
5,462.00	61.97	110.910	4,802.01	439.05	2,075.33	1,892,924.220	2,754,795.978	36.202222994	-107.725872177
5,494.00	64.24	110.670	4,816.48	428.92	2,102.01	1,892,914.091	2,754,822.657	36.202195089	-107.725781787
5,525.00	67.97	110.160	4,829.04	419.04	2,128.57	1,892,904.208	2,754,849.216	36.202167858	-107.725691805
5,556.00	71.99	109.470	4,839.65	409.17	2,155.97	1,892,894.339	2,754,876.613	36.202140663	-107.725598980
5,588.00	75.48	109.780	4,848.61	398.85	2,184.90	1,892,884.023	2,754,905.543	36.202112234	-107.725500962
5,619.00	77.68	110.160	4,855.80	388.55	2,213.24	1,892,873.724	2,754,933.881	36.202083858	-107.725404948
5,651.00	80.58	110.030	4,861.84	377.76	2,242.75	1,892,862.929	2,754,963.391	36.202054110	-107.725304967
5,682.00	83.80	109.630	4,866.05	367.34	2,271.64	1,892,852.512	2,754,992.278	36.202025406	-107.725207093
5,714.00	86.87	109.770	4,868.65	356.59	2,301.66	1,892,841.762	2,755,022.302	36.201995782	-107.725105370
5,745.00	87.67	109.500	4,870.13	346.18	2,330.82	1,892,831.357	2,755,051.466	36.201967110	-107.725006559
5,808.00	89.61	109.090	4,871.62	325.37	2,390.26	1,892,810.547	2,755,110.907	36.201909759	-107.724805163
5,902.00	91.79	109.870	4,870.48	294.03	2,478.87	1,892,779.204	2,755,199.514	36.201823387	-107.724504954
5,996.00	88.80	108.510	4,869.99	263.14	2,567.63	1,892,748.311	2,755,288.277	36.201738246	-107.724204212
6,091.00	88.70	108.200	4,872.06	233.23	2,657.78	1,892,718.403	2,755,378.422	36.201655805	-107.723898784
6,185.00	88.83	108.360	4,874.09	203.75	2,747.02	1,892,688.925	2,755,467.657	36.201574552	-107.723596438
6,280.00	88.37	108.120	4,876.41	174.03	2,837.21	1,892,659.200	2,755,557.857	36.201492611	-107.723290827
6,374.00	89.88	108.540	4,877.85	144.47	2,926.43	1,892,629.642	2,755,647.074	36.201411135	-107.722988545
6,468.00	90.47	109.250	4,877.56	114.03	3,015.37	1,892,599.202	2,755,736.007	36.201327235	-107.722687229
6,563.00	90.92	109.190	4,876.41	82.76	3,105.06	1,892,567.931	2,755,825.705	36.201241049	-107.722383325
6,657.00	91.23	109.290	4,874.64	51.79	3,193.80	1,892,536.961	2,755,914.439	36.201155692	-107.722082688
6,752.00	91.05	108.220	4,872.75	21.25	3,283.73	1,892,506.423	2,756,004.375	36.201071518	-107.721777974
6,845.00	89.73	110.380	4,872.12	-9.49	3,371.50	1,892,475.688	2,756,092.139	36.200986809	-107.721480624
6,939.00	90.00	109.770	4,872.34	-41.75	3,459.79	1,892,443.423	2,756,180.427	36.200897893	-107.721181505
7,034.00	90.40	109.790	4,872.01	-73.90	3,549.18	1,892,411.275	2,756,269.821	36.200809294	-107.720878638
7,128.00	90.78	109.610	4,871.04	-105.58	3,637.67	1,892,379.589	2,756,358.314	36.200721970	-107.720578823
7,223.00	90.94	109.630	4,869.62	-137.48	3,727.15	1,892,347.694	2,756,447.788	36.200634064	-107.720275685
7,317.00	90.15	111.050	4,868.72	-170.15	3,815.28	1,892,315.023	2,756,535.920	36.200544031	-107.719977100
7,411.00	90.59	111.180	4,868.12	-204.01	3,902.97	1,892,281.161	2,756,623.606	36.200450727	-107.719680030
7,505.00	90.95	112.340	4,866.85	-238.86	3,990.26	1,892,246.318	2,756,710.899	36.200354727	-107.719384300
7,599.00	91.26	114.010	4,865.04	-275.84	4,076.65	1,892,209.333	2,756,797.294	36.200252848	-107.719091619
7,693.00	91.34	113.920	4,862.91	-314.01	4,162.53	1,892,171.162	2,756,883.169	36.200147711	-107.718800711
7,788.00	90.04	110.190	4,861.76	-349.67	4,250.55	1,892,135.500	2,756,971.193	36.200049458	-107.718502506
7,882.00	90.33	109.710	4,861.46	-381.75	4,338.91	1,892,103.428	2,757,059.551	36.199961064	-107.718203155
7,977.00	90.74	110.090	4,860.57	-414.08	4,428.24	1,892,071.093	2,757,148.874	36.199871946	-107.717900537
8,072.00	91.35	110.290	4,858.84	-446.86	4,517.38	1,892,038.311	2,757,238.021	36.199781599	-107.717598516
8,166.00	91.56	109.680	4,856.45	-478.98	4,605.69	1,892,006.195	2,757,326.331	36.199693083	-107.717299330



Survey Report - Geographic



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Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,260.00	91.44	109.160	4,853.99	-510.22	4,694.31	1,891,974.952	2,757,414.953	36.199606963	-107.716999088
8,355.00	91.56	109.020	4,851.50	-541.28	4,784.06	1,891,943.892	2,757,504.697	36.199521344	-107.716695037
8,450.00	91.35	108.870	4,849.09	-572.12	4,873.88	1,891,913.060	2,757,594.522	36.199436347	-107.716390715
8,544.00	91.29	108.850	4,846.93	-602.49	4,962.81	1,891,882.682	2,757,683.451	36.199352600	-107.716089426
8,637.00	91.54	108.960	4,844.63	-632.62	5,050.77	1,891,852.559	2,757,771.408	36.199269558	-107.715791435
8,732.00	91.50	106.020	4,842.11	-661.15	5,141.34	1,891,824.021	2,757,861.974	36.199190860	-107.715484593
8,827.00	91.84	102.610	4,839.34	-684.63	5,233.33	1,891,800.545	2,757,953.971	36.199126062	-107.715172880
8,921.00	91.87	98.140	4,836.30	-701.55	5,325.73	1,891,783.630	2,758,046.362	36.199079285	-107.714859805
9,015.00	91.26	93.710	4,833.73	-711.24	5,419.16	1,891,773.933	2,758,139.801	36.199052333	-107.714543149
9,109.00	91.37	89.890	4,831.57	-714.19	5,513.08	1,891,770.982	2,758,233.712	36.199043909	-107.714224864
9,203.00	90.00	91.160	4,830.45	-715.05	5,607.06	1,891,770.121	2,758,327.697	36.199041225	-107.713906321
9,297.00	89.73	90.240	4,830.67	-716.20	5,701.05	1,891,768.972	2,758,421.689	36.199037752	-107.713587757
9,391.00	89.64	90.030	4,831.18	-716.42	5,795.05	1,891,768.751	2,758,515.687	36.199036825	-107.713269167
9,485.00	90.03	89.860	4,831.46	-716.33	5,889.05	1,891,768.841	2,758,609.686	36.199036753	-107.712950572
9,579.00	90.19	89.450	4,831.27	-715.77	5,983.05	1,891,769.407	2,758,703.684	36.199037987	-107.712631979
9,674.00	90.64	89.740	4,830.59	-715.10	6,078.04	1,891,770.079	2,758,798.678	36.199039506	-107.712310008
9,768.00	88.90	91.640	4,830.96	-716.23	6,172.03	1,891,768.947	2,758,892.662	36.199036075	-107.711991468
9,862.00	89.00	91.860	4,832.69	-719.10	6,265.97	1,891,766.077	2,758,986.603	36.199027867	-107.711673086
9,957.00	88.90	91.480	4,834.43	-721.87	6,360.91	1,891,763.309	2,759,081.546	36.199019935	-107.711351302
10,051.00	88.79	91.270	4,836.32	-724.12	6,454.86	1,891,761.053	2,759,175.500	36.199013415	-107.711032872
10,146.00	89.45	91.960	4,837.78	-726.80	6,549.81	1,891,758.376	2,759,270.449	36.199005732	-107.710711067
10,240.00	90.25	92.660	4,838.03	-730.59	6,643.74	1,891,754.588	2,759,364.371	36.198994997	-107.710392751
10,334.00	91.46	90.300	4,836.62	-733.02	6,737.69	1,891,752.160	2,759,458.321	36.198988001	-107.710074335
10,428.00	91.90	90.300	4,833.87	-733.51	6,831.64	1,891,751.668	2,759,552.278	36.198986321	-107.709755882
10,523.00	89.70	89.480	4,832.54	-733.32	6,926.63	1,891,751.850	2,759,647.262	36.198986489	-107.709433950
10,617.00	89.76	89.120	4,832.99	-732.18	7,020.62	1,891,752.999	2,759,741.254	36.198989314	-107.709115376
10,711.00	89.77	88.730	4,833.37	-730.41	7,114.60	1,891,754.762	2,759,835.236	36.198993827	-107.708796831
10,806.00	89.65	88.390	4,833.85	-728.03	7,209.57	1,891,757.150	2,759,930.205	36.199000050	-107.708474940
10,900.00	89.74	88.270	4,834.35	-725.29	7,303.53	1,891,759.889	2,760,024.163	36.199007243	-107.708156472
10,994.00	89.86	88.440	4,834.68	-722.59	7,397.49	1,891,762.588	2,760,118.124	36.199014322	-107.707837996
11,088.00	89.00	89.350	4,835.62	-720.77	7,491.47	1,891,764.400	2,760,212.099	36.199018968	-107.707519473
11,182.00	89.68	90.210	4,836.70	-720.41	7,585.46	1,891,764.761	2,760,306.091	36.199019624	-107.707200903
11,277.00	88.92	88.790	4,837.86	-719.59	7,680.44	1,891,765.590	2,760,401.077	36.199021561	-107.706878960
11,371.00	89.96	92.210	4,838.78	-720.41	7,774.42	1,891,764.770	2,760,495.053	36.199018970	-107.706560446
11,465.00	90.11	92.120	4,838.72	-723.96	7,868.35	1,891,761.218	2,760,588.986	36.199008878	-107.706242092
11,560.00	89.29	89.970	4,839.22	-725.69	7,963.33	1,891,759.486	2,760,683.962	36.199003776	-107.705920193
11,654.00	89.69	92.460	4,840.05	-727.68	8,057.30	1,891,757.493	2,760,777.930	36.198997962	-107.705601715
11,749.00	89.19	91.700	4,840.98	-731.13	8,152.23	1,891,754.045	2,760,872.861	36.198988146	-107.705279976
11,843.00	89.45	91.500	4,842.10	-733.75	8,246.19	1,891,751.421	2,760,966.818	36.198980596	-107.704961538
11,937.00	89.89	91.580	4,842.64	-736.28	8,340.15	1,891,748.894	2,761,060.782	36.198973314	-107.704643074
12,032.00	90.43	91.590	4,842.37	-738.91	8,435.11	1,891,746.267	2,761,155.744	36.198965749	-107.704321225
12,125.00	90.90	91.510	4,841.30	-741.42	8,528.07	1,891,743.751	2,761,248.704	36.198958499	-107.704006167
12,220.00	92.81	90.520	4,838.22	-743.11	8,623.00	1,891,742.069	2,761,343.633	36.198953529	-107.703684426
12,314.00	89.08	89.230	4,836.67	-742.90	8,716.97	1,891,742.275	2,761,437.601	36.198953749	-107.703365936
12,408.00	88.51	88.270	4,838.65	-740.85	8,810.93	1,891,744.325	2,761,531.557	36.198959034	-107.703047481
12,502.00	88.87	88.750	4,840.80	-738.41	8,904.87	1,891,746.768	2,761,625.500	36.198965400	-107.702729066
12,596.00	88.63	88.370	4,842.85	-736.05	8,998.82	1,891,749.130	2,761,719.447	36.198971540	-107.702410636
12,690.00	89.75	89.910	4,844.18	-734.63	9,092.79	1,891,750.540	2,761,813.423	36.198975065	-107.702092115
12,784.00	90.66	90.900	4,843.84	-735.30	9,186.79	1,891,749.876	2,761,907.417	36.198972891	-107.701773539
12,878.00	91.15	90.780	4,842.35	-736.68	9,280.77	1,891,748.498	2,762,001.395	36.198968755	-107.701455024
12,972.00	91.26	90.860	4,840.38	-738.02	9,374.74	1,891,747.153	2,762,095.364	36.198964709	-107.701136536
13,066.00	91.25	90.970	4,838.32	-739.52	9,468.70	1,891,745.652	2,762,189.330	36.198960234	-107.700818064
13,160.00	91.10	90.280	4,836.39	-740.55	9,562.68	1,891,744.627	2,762,283.304	36.198957065	-107.700499560
13,254.00	89.84	89.890	4,835.62	-740.69	9,656.67	1,891,744.488	2,762,377.298	36.198956328	-107.700180982



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #504H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #504H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,348.00	88.82	89.460	4,836.72	-740.15	9,750.66	1,891,745.021	2,762,471.288	36.198957438	-107.699862415
13,442.00	89.35	88.870	4,838.22	-738.78	9,844.64	1,891,746.391	2,762,565.265	36.198960845	-107.699543889
13,536.00	87.06	90.740	4,841.16	-738.46	9,938.58	1,891,746.711	2,762,659.208	36.198961369	-107.699225485
13,630.00	86.43	91.050	4,846.50	-739.93	10,032.42	1,891,745.246	2,762,753.044	36.198956986	-107.698907450
13,724.00	86.67	91.410	4,852.16	-741.94	10,126.22	1,891,743.231	2,762,846.852	36.198951095	-107.698589514
13,819.00	86.88	91.390	4,857.50	-744.26	10,221.05	1,891,740.914	2,762,941.673	36.198944367	-107.698268146
13,913.00	88.23	91.540	4,861.51	-746.66	10,314.93	1,891,738.513	2,763,035.554	36.198937412	-107.697949962
14,008.00	91.03	90.720	4,862.13	-748.54	10,409.90	1,891,736.640	2,763,130.523	36.198931901	-107.697628089
14,102.00	91.26	90.510	4,860.25	-749.54	10,503.87	1,891,735.631	2,763,224.499	36.198928769	-107.697309580
14,196.00	91.62	90.750	4,857.89	-750.58	10,597.84	1,891,734.598	2,763,318.463	36.198925568	-107.696991109
14,290.00	91.97	90.620	4,854.94	-751.70	10,691.78	1,891,733.475	2,763,412.410	36.198922119	-107.696672698
14,384.00	91.98	89.570	4,851.70	-751.86	10,785.73	1,891,733.319	2,763,506.352	36.198921327	-107.696354296
14,478.00	93.15	90.570	4,847.50	-751.97	10,879.63	1,891,733.205	2,763,600.255	36.198920649	-107.696036030
14,502.00	93.33	90.670	4,846.14	-752.23	10,903.59	1,891,732.945	2,763,624.215	36.198919843	-107.695954822
14,565.00	93.33	90.670	4,842.48	-752.97	10,966.48	1,891,732.210	2,763,687.104	36.198917578	-107.695741673

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
450.00	449.97	-1.09	-4.26	MWD surveys
3,047.00	2,868.16	189.58	702.57	9 5/8" Casing shoe @ 3047.00 MD 2868.16 TVD
5,540.80	4,834.70	414.00	2,142.43	FTP @ 5540.80 MD 4834.70 TVD
5,770.00	4,870.98	337.88	2,354.39	1144 FNL 1946 FWL @ 5770.00 MD 4870.98 TVD
14,455.10	4,848.70	-751.79	10,856.76	LTP @ 14455.10 MD 4848.70 TVD
14,502.00	4,846.14	-752.23	10,903.59	Survey @ 14502.00 MD 4846.15 TVD
14,502.00	4,846.14	-752.23	10,903.59	2248 FNL 100 FEL @ 14502.00 MD 4846.14 TVD
14,565.00	4,842.48	-752.97	10,966.48	Survey proj. to 14565 MD 4842.48 TVD 2249 FNL 37 FEL

WELL NAME: **RODEO UNIT 504H**
OBJECTIVE: **Drill, complete, and equip single lateral in the Mancos-I formation**
API Number: **30-045-38323**
AFE Number: **DV03105**
ER Well Number: **NM08365.01**

QUICK REFERENCE	
Sur TD (MD)	377 ft
Int TD (MD)	2,996 ft
KOP (MD)	5,059 ft
KOP (TVD)	4,530 ft
Target (TVD)	4,884 ft
Curve BUR	10 °/100 ft
POE (MD)	5,781 ft
TD (MD)	14,552 ft
Lat Len (ft)	8,757 ft

State: **New Mexico**
County: **San Juan**
Surface Elev.: **6,883** ft ASL (GL) **6,908** ft ASL (KB)
Surface Location: **25-23N-09W** Sec-Twn- Rng **1,471** ft FNL **408** ft FEL
BH Location: **29-23N-08W** Sec-Twn- Rng **2,269** ft FNL **100** ft FEL

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 113.5; 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) remaining on CR #7890 for 0.5 miles to access road; Left (Southeast) on access road for 0.4 miles to the RODEO UNIT 508H PAD (WELLS: 508H, 509H, 510H (DRILLED); 503H, 504H, 506H (PLANNED)). The planned wells are parallel to the existing wells at a distance of 35'. The 504H is second closest to the location entrance and the existing facilities and directly across from the 509H well.

WELL CONSTRUCTION SUMMARY:

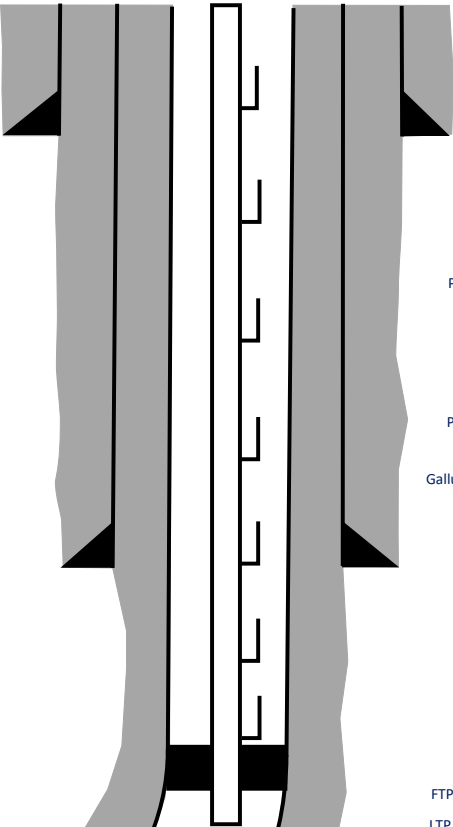
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	377	13.375	54.5	J-55	BTC	0	377
Intermediate	12.250	2,996	9.625	36.0	J-55	LTC	0	2,996
Production	8.500	14,552	5.500	17.0	P-110	LTC	0	14,552

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	372
Inter. (Lead)	10 Type III:P	12.5	2.14	12.05	0.3627	70%	0	594
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,507	137
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	557
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	4,197	1,668

COMPLETION / PRODUCTION SUMMARY:

Frac: **8657**
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	571	571
Kirtland	657	657
Fruitland	861	861
Pictured Cliffs	1,168	1,168
Lewis	1,327	1,327
Chacra	1,586	1,589
Cliff House	2,656	2,801
Menefee	2,674	2,823
Point Lookout	3,648	3,997
Mancos	3,814	4,197
Gallup (MNCS_A)	4,139	4,589
MNCS_B	4,224	4,691
MNCS_C	4,324	4,812
MNCS_Cms	4,373	4,871
MNCS_D	4,492	5,014
MNCS_E	4,642	5,203
MNCS_F	4,699	5,285
MNCS_G	4,775	5,415
MNCS_H	4,829	5,527
MNCS_I	4,868	5,648
FTP (LP) TARGET	4,884	5,781
LTP (TD) TARGET	4,897	14,538

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 301877

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 301877
	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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 301877

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 301877
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	RT EXP Date: 04/29/2024	1/29/2024