

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 30-045-38322	⁵ Pool Name BASIN MANCOS		⁶ Pool Code 97232
⁷ Property Code 321253	⁸ Property Name RODEO UNIT		⁹ Well Number 503H

II. ¹⁰ Surface Location

Ul or lot no. H	Section 25	Township 23N	Range 9W	Lot Idn	Feet from the 1461'	North/South Line NORTH	Feet from the 425'	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no. B	Section 29	Township 23N	Range 8W	Lot Idn	Feet from the 386'	North/South line North	Feet from the 1906'	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

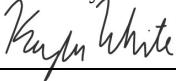
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	WESTERN REFINING COMPANY, LLC165	O
373888	HARVEST FOUR CORNERS. LLC	G

IV. Well Completion Data

²¹ Spud Date 10/9/2023	²² Ready Date 1/29/2024	²³ TD 13,964.8' MD 4923' TVD	²⁴ PBDT 13,857' MD 4921' TVD	²⁵ Perforations ~ 5420 - 13858' MD ~ 4877'-4921' 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		3,021' MD		727 sx- surface
8-1/2"		5-1/2",17#, P-110		13,964.8' MD		2131 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: Regulatory Agent		Approval Date: 01/29/2024	
E-mail Address: kwhite@enduringresources.com		RT EXP Date: 04/29/2024	
Date: 1/8/2024	Phone: 720-768-3575		



ENDURING RESOURCES IV LLC

January 8, 2024

Re: *RODEO UNIT 503H-30-045-38322*

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", on a light blue background.

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 503H
⁷ GRID 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		1461	NORTH	425	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	29	23N	8W		386	NORTH	1906	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	

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 Date
Heather Huntington 1/8/24
Printed Name
hhuntington@enduringresources.com
E-mail Address

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
Date Revised: JANUARY 7, 2024
Survey Date: SEPTEMBER 15, 2021
Signature and Seal of Professional Surveyor

JASON C. EDWARDS
Certificate Number 15269

SURFACE LOCATION (A)
1461' FNL 425' FEL
SEC 25, T23N, R9W

LAT 36.201051°N
LONG -107.732966°W
DATUM: NAD1983

1671.0'

FIRST TAKE POINT (B)
400' FNL 100' FWL
SEC 30, T23N, R8W

LAT 36.203956°N
LONG -107.731188°W
DATUM: NAD1983

8492.7'

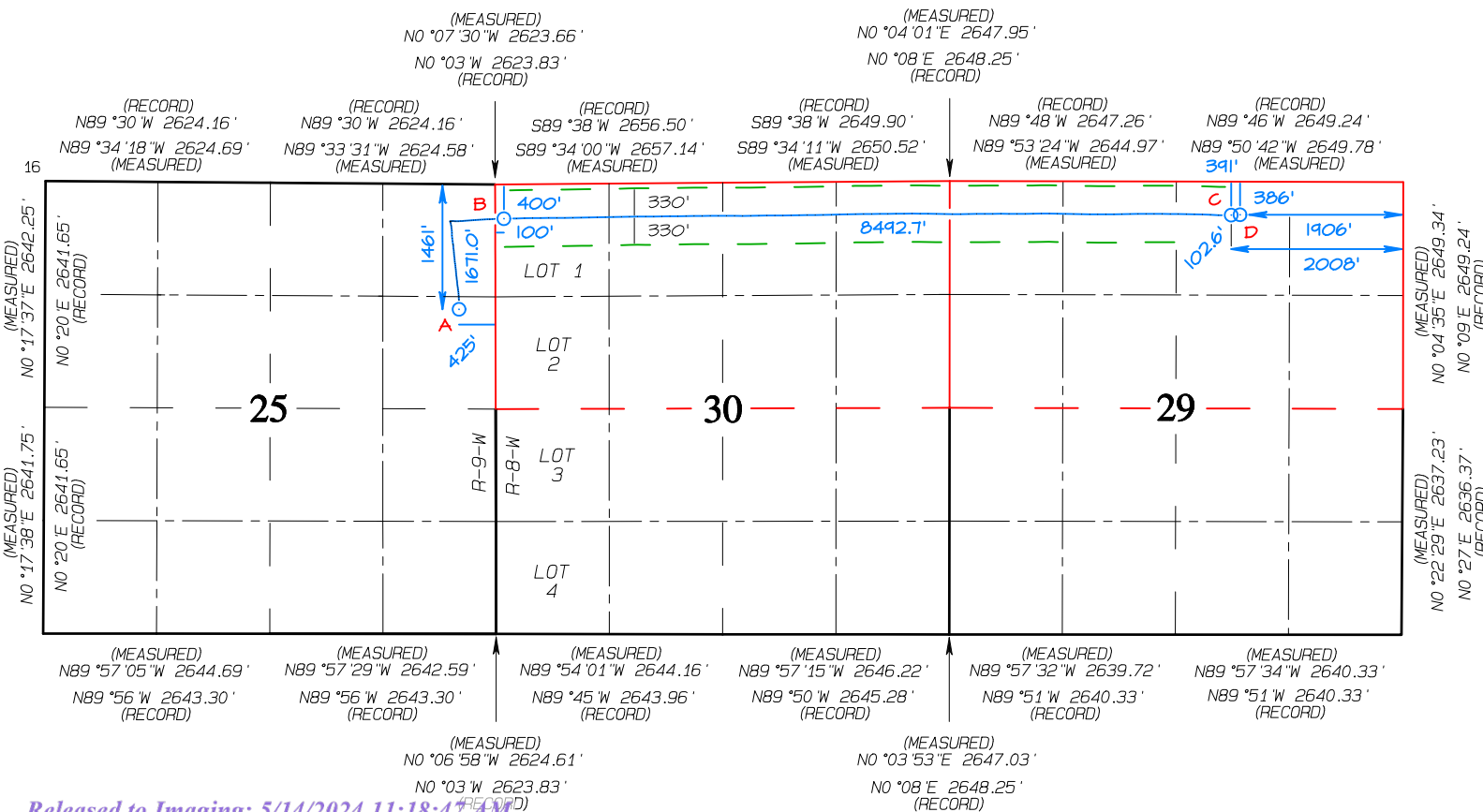
LAST TAKE POINT (C)
391' FNL 2008' FEL
SEC 29, T23N, R8W

LAT 36.204043°N
LONG -107.702405°W
DATUM: NAD1983

102.6'

END-OF-LATERAL (D)
386' FNL 1906' FEL
SEC 29, T23N, R8W

LAT 36.204054°N
LONG -107.702057°W
DATUM: NAD1983



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		2 Pool Code	3 Pool Name
		97232	BASIN MANCOS
4 Property Code	5 Property Name		6 Well Number
321253	RODEO UNIT		503H
7 OGRID No.	8 Operator Name		9 Elevation
372286	ENDURING RESOURCES, LLC		6883'

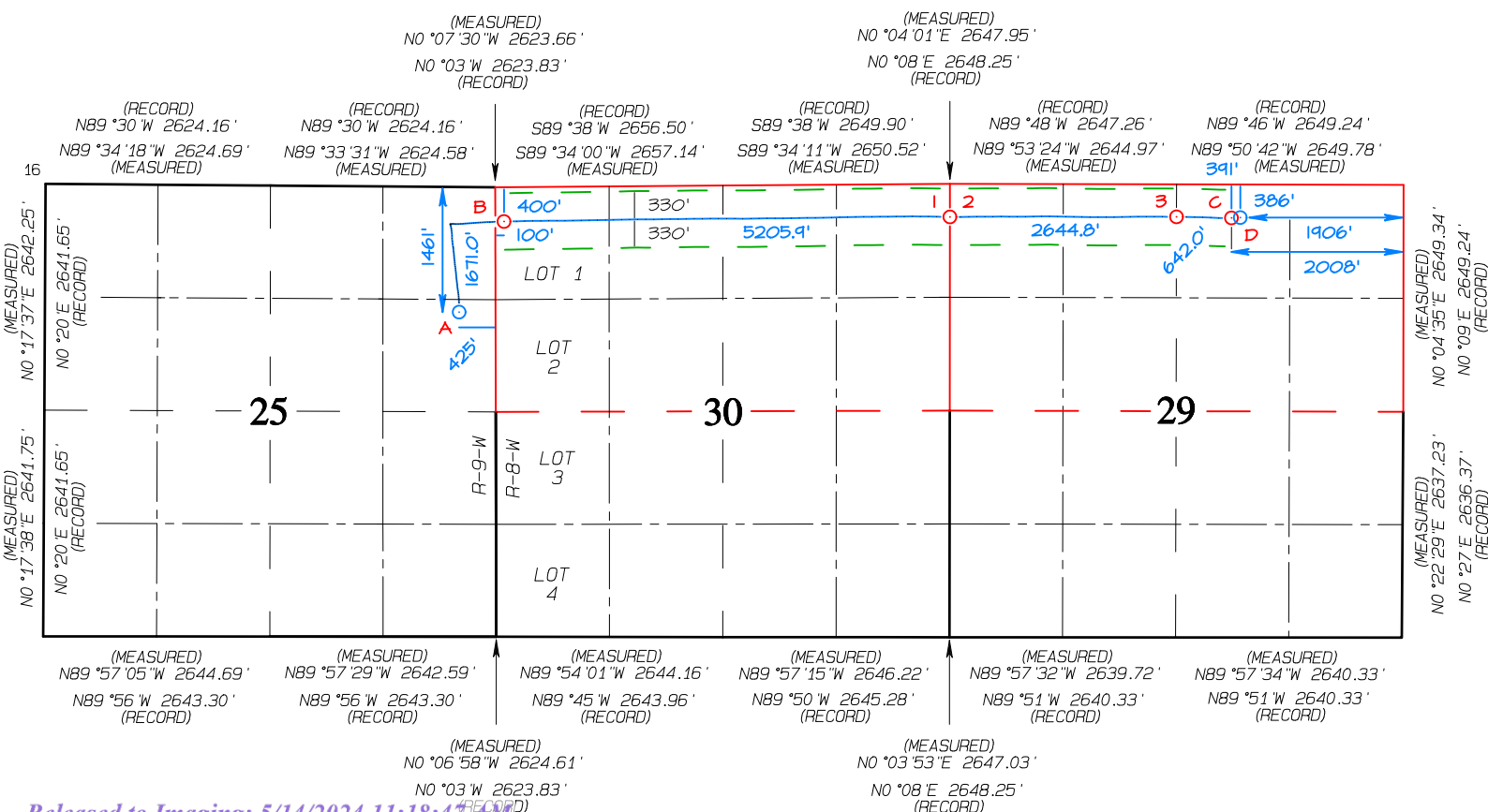
10 Surface Location

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		1461	NORTH	425	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	29	23N	8W		386	NORTH	1906	EAST	SAN JUAN

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

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE
BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISIONLEASE X-ING (1)
386' FNL 0' FEL
SEC 30, T23N, R8WLAT 36.204087°N
LONG -107.713544°W
DATUM: NAD1983LEASE X-ING (2)
386' FNL 0' FEL
SEC 29, T23N, R8WLAT 36.204087°N
LONG -107.713544°W
DATUM: NAD1983LEASE X-ING (3)
380' FNL 2645' FWL
SEC 29, T23N, R8WLAT 36.204080°N
LONG -107.704580°W
DATUM: NAD1983LAST TAKE POINT (C)
391' FNL 2008' FEL
SEC 29, T23N, R8WLAT 36.204043°N
LONG -107.702405°W
DATUM: NAD1983END-OF-LATERAL (D)
386' FNL 1906' FEL
SEC 29, T23N, R8WLAT 36.204054°N
LONG -107.702057°W
DATUM: NAD1983

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: 1/8/24Printed Name: Heather HuntingtonE-mail Address: hhuntington@enduringresources.comE-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 7, 2024

Survey Date: SEPTEMBER 15, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



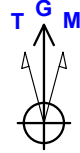
Well: Rodeo Unit #503H
Site: Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev2 RKB=25 ft
Rig: Aztec 1000

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rodeo 503 FTP 380 FNL 100 FWL r2	4883.38	1078.05	522.55	1893573.395	2753226.078	36.204011000	-107.731191000
Rodeo 503 VS=0	4886.00	1076.03	-4.03	1893571.376	2752699.495	36.204006965	-107.732975886
Rodeo 503 LTP 380 FNL 1977 FEL r2	4931.00	1110.86	9046.37	1893606.209	2761749.876	36.204073000	-107.702299000

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: 1892495.348
Easting: 2752703.525
Latitude: 36.201051000
Longitude: -107.732966000

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



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

Section Details

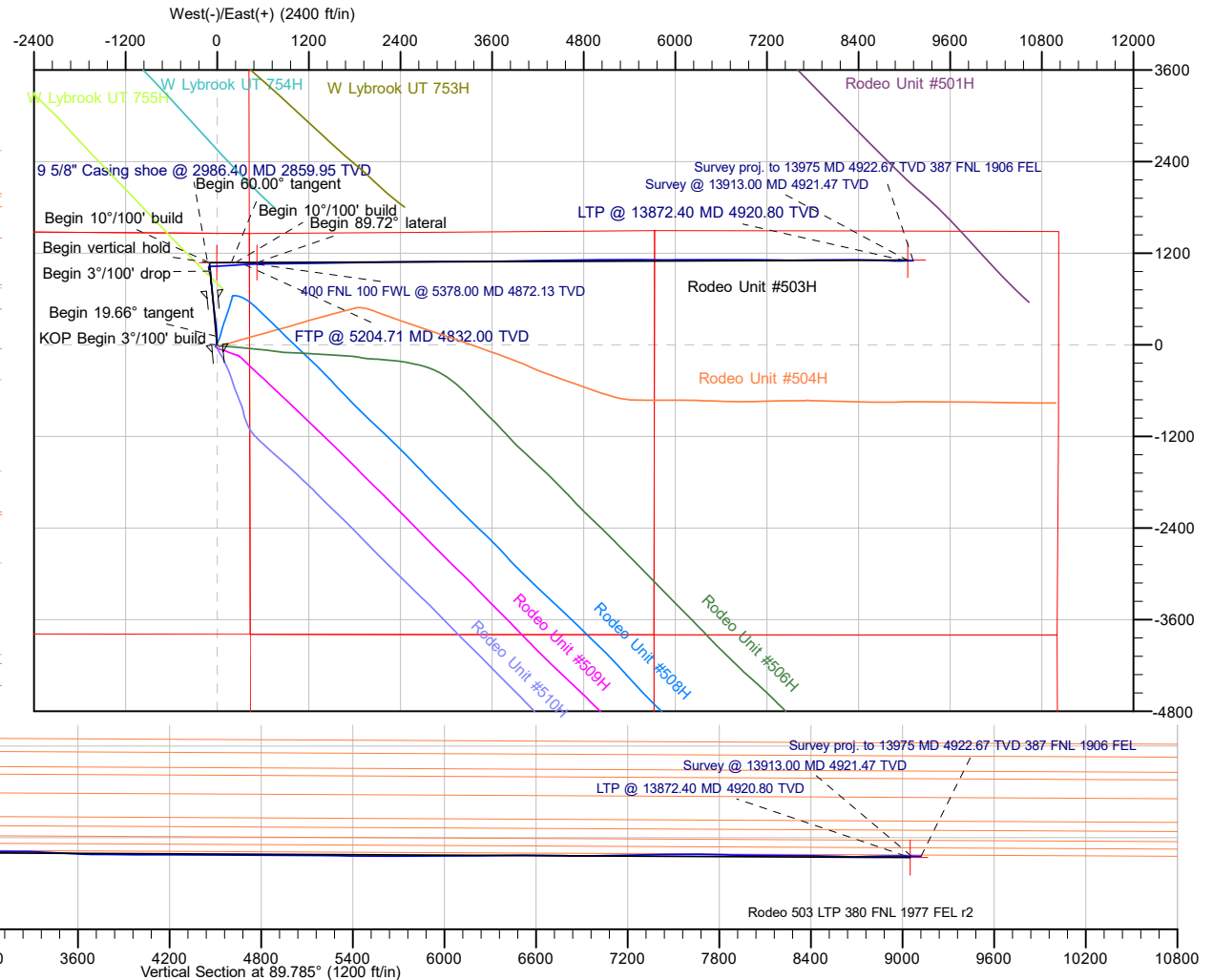
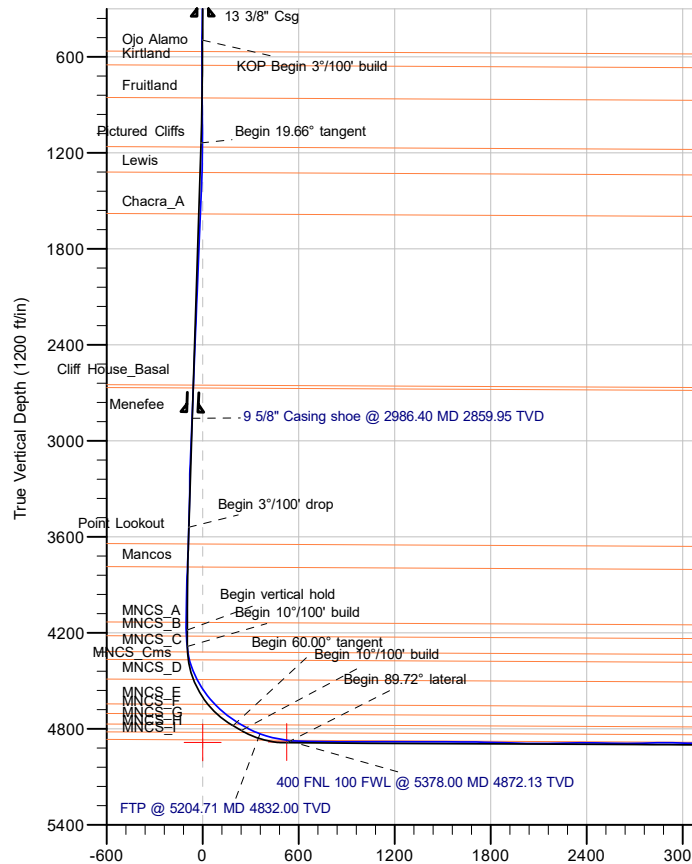
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	497.00	0.00	0.000	497.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1152.21	19.66	354.707	1139.43	110.82	-10.27	3.00	354.71	-9.85	Begin 19.66° tangent
4	3701.99	19.66	354.707	3540.63	964.84	-89.39	0.00	0.00	-85.77	Begin 3°/100' drop
5	4357.19	0.00	0.000	4183.06	1075.66	-99.66	3.00	180.00	-95.62	Begin vertical hold
6	4459.80	0.00	0.000	4285.67	1075.66	-99.66	0.00	0.00	-95.62	Begin 10°/100' build
7	5059.80	60.00	89.779	4781.87	1076.76	186.82	10.00	89.78	190.86	Begin 60.00° tangent
8	5119.80	60.00	89.779	4811.87	1076.97	238.78	0.00	0.00	242.82	Begin 10°/100' build
9	5416.96	89.72	89.779	4888.62	1078.06	522.41	10.00	0.00	526.45	Begin 89.72° lateral
10	13941.09	89.72	89.779	4931.00	1110.86	9046.37	0.00	0.00	9050.47	PBHL

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Annotation
450.00	0.90	264.160	449.98	-0.35	-3.45	-3.45	MWD surveys
2986.40	20.16	353.662	2859.85	735.59	-67.42	-64.66	9 5/8" Casing shoe @ 2986.40 MD 2859.95 TVD
5204.71	70.01	87.519	4832.00	1051.52	355.53	359.47	FTP @ 5204.71 MD 4832.00 TVD
5378.00	82.56	88.331	4872.13	1057.89	523.57	527.54	400 FNL 100 FWL @ 5378.00 MD 4872.13 TVD
13872.40	89.21	88.082	4920.80	1099.72	9015.26	9019.32	LTP @ 13872.40 MD 4920.80 TVD
13913.00	88.89	87.520	4921.47	1101.28	9055.82	9059.89	Survey @ 13913.00 MD 4921.47 TVD
13975.00	88.89	87.520	4922.67	1103.96	9117.75	9121.83	Survey proj. to 13975 MD 4922.67 TVD 387 FNL 1906 FEL

CASING DETAILS

TVD	MD	Name
347.00	347.00	13 3/8" Csg
2821.00	2937.83	9 5/8" Csg





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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 #503H, Surf loc: 1461 FNL 425 FEL Section 25-T23N-R09W		
Well Position	+N/-S	0.00 ft	Northing: 1,892,495.349 usft
	+E/-W	0.00 ft	Easting: 2,752,703.525 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	49,043.04895002

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	89.785	

Survey Program	Date	1/3/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,854.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,917.00	13,913.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
13,975.00	13,975.00	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	0.90	264.160	449.98	-0.35	-3.45	-3.45	0.20	0.20	0.00
480.00	0.91	272.730	479.98	-0.37	-3.93	-3.93	0.45	0.03	28.57
538.00	1.05	340.430	537.97	0.16	-4.56	-4.56	1.89	0.24	116.72
599.00	2.08	359.070	598.95	1.79	-4.77	-4.76	1.86	1.69	30.56
659.00	3.51	4.290	658.88	4.71	-4.65	-4.63	2.42	2.38	8.70



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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)	
719.00	5.05	6.110	718.71	9.17	-4.23	-4.20	2.58	2.57	3.03	
780.00	6.79	6.170	779.38	15.42	-3.56	-3.50	2.85	2.85	0.10	
840.00	8.56	6.380	838.84	23.39	-2.68	-2.59	2.95	2.95	0.35	
899.00	10.75	4.820	897.00	33.24	-1.73	-1.60	3.74	3.71	-2.64	
958.00	13.04	0.870	954.73	45.38	-1.17	-1.00	4.12	3.88	-6.69	
1,024.00	15.34	0.050	1,018.71	61.55	-1.05	-0.81	3.50	3.48	-1.24	
1,087.00	17.30	359.980	1,079.17	79.26	-1.04	-0.74	3.11	3.11	-0.11	
1,150.00	19.21	358.920	1,139.00	98.99	-1.24	-0.87	3.08	3.03	-1.68	
1,213.00	19.63	357.890	1,198.41	119.93	-1.82	-1.37	0.86	0.67	-1.63	
1,276.00	19.74	356.930	1,257.73	141.12	-2.78	-2.25	0.54	0.17	-1.52	
1,339.00	20.00	356.400	1,316.98	162.50	-4.03	-3.42	0.50	0.41	-0.84	
1,402.00	19.50	354.260	1,376.28	183.72	-5.76	-5.07	1.40	-0.79	-3.40	
1,465.00	18.89	352.370	1,435.77	204.29	-8.16	-7.40	1.38	-0.97	-3.00	
1,528.00	18.88	351.830	1,495.38	224.48	-10.97	-10.12	0.28	-0.02	-0.86	
1,591.00	18.89	352.370	1,554.99	244.68	-13.77	-12.85	0.28	0.02	0.86	
1,655.00	19.32	352.520	1,615.47	265.45	-16.52	-15.53	0.68	0.67	0.23	
1,718.00	20.40	353.830	1,674.72	286.70	-19.06	-17.98	1.85	1.71	2.08	
1,781.00	20.71	354.370	1,733.71	308.70	-21.33	-20.17	0.58	0.49	0.86	
1,844.00	20.44	353.510	1,792.69	330.72	-23.67	-22.43	0.64	-0.43	-1.37	
1,907.00	20.23	353.300	1,851.76	352.46	-26.18	-24.86	0.35	-0.33	-0.33	
1,970.00	20.14	353.110	1,910.89	374.05	-28.76	-27.35	0.18	-0.14	-0.30	
2,032.00	20.24	352.880	1,969.08	395.29	-31.37	-29.88	0.21	0.16	-0.37	
2,096.00	21.06	354.750	2,028.97	417.72	-33.79	-32.22	1.64	1.28	2.92	
2,159.00	21.32	354.620	2,087.71	440.40	-35.90	-34.25	0.42	0.41	-0.21	
2,222.00	21.56	354.300	2,146.35	463.32	-38.12	-36.38	0.42	0.38	-0.51	
2,285.00	21.54	353.580	2,204.95	486.33	-40.57	-38.74	0.42	-0.03	-1.14	
2,348.00	21.70	352.930	2,263.52	509.38	-43.29	-41.38	0.46	0.25	-1.03	
2,411.00	22.00	353.200	2,321.99	532.66	-46.12	-44.12	0.50	0.48	0.43	
2,474.00	21.77	353.050	2,380.45	555.97	-48.93	-46.85	0.38	-0.37	-0.24	
2,538.00	21.14	354.130	2,440.02	579.23	-51.55	-49.38	1.16	-0.98	1.69	
2,601.00	21.51	354.310	2,498.70	602.03	-53.86	-51.60	0.60	0.59	0.29	
2,664.00	21.19	354.640	2,557.38	624.86	-56.07	-53.72	0.54	-0.51	0.52	
2,727.00	20.30	354.320	2,616.29	647.07	-58.21	-55.78	1.42	-1.41	-0.51	
2,790.00	20.06	354.170	2,675.43	668.69	-60.39	-57.88	0.39	-0.38	-0.24	
2,854.00	19.96	354.150	2,735.56	690.48	-62.62	-60.03	0.16	-0.16	-0.03	
2,917.00	20.01	353.960	2,794.77	711.89	-64.85	-62.18	0.13	0.08	-0.30	
3,041.00	20.28	353.430	2,911.18	754.34	-69.54	-66.71	0.26	0.22	-0.43	
3,072.00	20.24	350.620	2,940.27	764.97	-71.03	-68.16	3.14	-0.13	-9.06	
3,167.00	19.82	353.270	3,029.52	797.18	-75.59	-72.60	1.05	-0.44	2.79	
3,261.00	19.02	351.660	3,118.17	828.16	-79.68	-76.58	1.02	-0.85	-1.71	
3,356.00	20.15	358.180	3,207.69	859.83	-82.45	-79.22	2.59	1.19	6.86	
3,450.00	20.04	357.700	3,295.96	892.11	-83.61	-80.26	0.21	-0.12	-0.51	
3,544.00	16.71	355.430	3,385.16	921.68	-85.33	-81.87	3.62	-3.54	-2.41	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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)
3,639.00	13.66	353.380	3,476.83	946.44	-87.72	-84.16	3.26	-3.21	-2.16
3,733.00	11.17	351.660	3,568.63	966.48	-90.32	-86.69	2.68	-2.65	-1.83
3,827.00	10.64	348.990	3,660.93	984.01	-93.29	-89.60	0.78	-0.56	-2.84
3,922.00	10.48	348.850	3,754.32	1,001.09	-96.64	-92.88	0.17	-0.17	-0.15
4,016.00	7.24	339.900	3,847.19	1,015.05	-100.33	-96.52	3.74	-3.45	-9.52
4,110.00	3.82	336.880	3,940.74	1,023.49	-103.60	-99.75	3.65	-3.64	-3.21
4,205.00	0.98	318.770	4,035.65	1,027.02	-105.37	-101.52	3.06	-2.99	-19.06
4,299.00	0.64	274.830	4,129.64	1,027.66	-106.43	-102.57	0.73	-0.36	-46.74
4,394.00	2.94	87.140	4,224.61	1,027.83	-104.52	-100.66	3.76	2.42	181.38
4,425.00	2.89	89.720	4,255.57	1,027.87	-102.95	-99.09	0.45	-0.16	8.32
4,456.00	4.93	86.840	4,286.49	1,027.95	-100.84	-96.98	6.61	6.58	-9.29
4,488.00	8.97	86.150	4,318.25	1,028.19	-96.97	-93.11	12.63	12.63	-2.16
4,519.00	12.54	83.840	4,348.70	1,028.72	-91.21	-87.35	11.60	11.52	-7.45
4,551.00	16.00	85.850	4,379.71	1,029.41	-83.36	-79.49	10.92	10.81	6.28
4,582.00	18.64	89.520	4,409.30	1,029.76	-74.14	-70.28	9.21	8.52	11.84
4,613.00	22.04	93.210	4,438.36	1,029.48	-63.38	-59.51	11.72	10.97	11.90
4,645.00	25.04	92.660	4,467.70	1,028.83	-50.61	-46.75	9.40	9.38	-1.72
4,676.00	27.78	91.020	4,495.46	1,028.39	-36.83	-32.97	9.15	8.84	-5.29
4,708.00	30.67	88.680	4,523.39	1,028.45	-21.21	-17.36	9.71	9.03	-7.31
4,739.00	33.78	87.740	4,549.61	1,028.97	-4.69	-0.83	10.16	10.03	-3.03
4,771.00	35.98	87.230	4,575.86	1,029.78	13.59	17.45	6.94	6.88	-1.59
4,802.00	38.24	86.730	4,600.58	1,030.76	32.26	36.13	7.35	7.29	-1.61
4,833.00	40.93	86.110	4,624.47	1,032.00	51.98	55.85	8.77	8.68	-2.00
4,865.00	44.57	85.640	4,647.96	1,033.56	73.64	77.51	11.42	11.38	-1.47
4,896.00	46.94	85.680	4,669.59	1,035.24	95.78	99.66	7.65	7.65	0.13
4,927.00	49.09	86.060	4,690.32	1,036.90	118.76	122.65	7.00	6.94	1.23
4,959.00	51.22	85.790	4,710.83	1,038.65	143.27	147.16	6.69	6.66	-0.84
4,990.00	54.16	86.300	4,729.61	1,040.35	167.86	171.76	9.57	9.48	1.65
5,021.00	57.03	86.400	4,747.13	1,041.98	193.38	197.29	9.26	9.26	0.32
5,053.00	58.82	86.420	4,764.12	1,043.67	220.44	224.36	5.59	5.59	0.06
5,084.00	59.02	86.280	4,780.12	1,045.36	246.94	250.86	0.75	0.65	-0.45
5,115.00	61.50	86.330	4,795.50	1,047.10	273.80	277.73	8.00	8.00	0.16
5,147.00	64.75	86.580	4,809.96	1,048.86	302.28	306.22	10.18	10.16	0.78
5,178.00	67.90	87.260	4,822.41	1,050.39	330.63	334.57	10.36	10.16	2.19
5,210.00	70.43	87.570	4,833.79	1,051.73	360.51	364.45	7.96	7.91	0.97
5,241.00	72.38	87.640	4,843.68	1,052.96	389.86	393.81	6.29	6.29	0.23
5,273.00	74.87	87.690	4,852.70	1,054.21	420.53	424.49	7.78	7.78	0.16
5,304.00	77.91	87.740	4,859.99	1,055.41	450.64	454.59	9.81	9.81	0.16
5,336.00	80.65	88.000	4,865.94	1,056.58	482.05	486.01	8.60	8.56	0.81
5,367.00	81.92	88.300	4,870.64	1,057.57	512.68	516.64	4.21	4.10	0.97
5,399.00	83.77	88.390	4,874.63	1,058.49	544.41	548.38	5.79	5.78	0.28
5,430.00	86.66	88.870	4,877.21	1,059.22	575.29	579.26	9.45	9.32	1.55



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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)
5,461.00	88.49	89.710	4,878.52	1,059.61	606.26	610.23	6.49	5.90	2.71
5,524.00	88.99	88.710	4,879.91	1,060.48	669.24	673.21	1.77	0.79	-1.59
5,619.00	89.60	88.400	4,881.08	1,062.87	764.20	768.19	0.72	0.64	-0.33
5,713.00	89.61	89.010	4,881.73	1,065.00	858.18	862.17	0.65	0.01	0.65
5,807.00	89.77	89.690	4,882.23	1,066.06	952.17	956.16	0.74	0.17	0.72
5,901.00	90.00	89.650	4,882.42	1,066.60	1,046.17	1,050.16	0.25	0.24	-0.04
5,996.00	90.21	89.940	4,882.25	1,066.94	1,141.16	1,145.16	0.38	0.22	0.31
6,090.00	89.51	88.980	4,882.48	1,067.83	1,235.16	1,239.16	1.26	-0.74	-1.02
6,185.00	90.11	89.160	4,882.79	1,069.37	1,330.15	1,334.15	0.66	0.63	0.19
6,279.00	90.48	89.040	4,882.31	1,070.85	1,424.13	1,428.14	0.41	0.39	-0.13
6,373.00	89.19	89.350	4,882.58	1,072.17	1,518.12	1,522.13	1.41	-1.37	0.33
6,468.00	89.60	89.170	4,883.58	1,073.40	1,613.11	1,617.12	0.47	0.43	-0.19
6,562.00	89.96	88.840	4,883.94	1,075.03	1,707.09	1,711.11	0.52	0.38	-0.35
6,657.00	88.45	88.870	4,885.26	1,076.93	1,802.06	1,806.09	1.59	-1.59	0.03
6,750.00	88.10	88.450	4,888.06	1,079.10	1,894.99	1,899.03	0.59	-0.38	-0.45
6,844.00	88.39	88.410	4,890.94	1,081.67	1,988.91	1,992.96	0.31	0.31	-0.04
6,939.00	89.98	90.140	4,892.29	1,082.88	2,083.89	2,087.94	2.47	1.67	1.82
7,033.00	91.14	90.140	4,891.37	1,082.65	2,177.88	2,181.93	1.23	1.23	0.00
7,128.00	90.85	89.480	4,889.72	1,082.96	2,272.87	2,276.92	0.76	-0.31	-0.69
7,222.00	90.11	89.080	4,888.94	1,084.14	2,366.86	2,370.91	0.89	-0.79	-0.43
7,316.00	89.67	89.360	4,889.12	1,085.42	2,460.85	2,464.90	0.55	-0.47	0.30
7,410.00	89.04	88.810	4,890.17	1,086.92	2,554.83	2,558.89	0.89	-0.67	-0.59
7,504.00	89.62	88.960	4,891.27	1,088.75	2,648.80	2,652.87	0.64	0.62	0.16
7,599.00	91.09	89.620	4,890.68	1,089.93	2,743.79	2,747.86	1.70	1.55	0.69
7,693.00	91.64	89.720	4,888.45	1,090.47	2,837.76	2,841.83	0.59	0.59	0.11
7,787.00	88.60	89.670	4,888.25	1,090.97	2,931.75	2,935.82	3.23	-3.23	-0.05
7,882.00	89.18	90.060	4,890.09	1,091.19	3,026.73	3,030.80	0.74	0.61	0.41
7,977.00	89.58	89.970	4,891.12	1,091.17	3,121.73	3,125.80	0.43	0.42	-0.09
8,071.00	90.21	90.230	4,891.29	1,091.01	3,215.72	3,219.80	0.73	0.67	0.28
8,165.00	87.43	90.430	4,893.22	1,090.46	3,309.69	3,313.76	2.97	-2.96	0.21
8,260.00	86.93	89.050	4,897.90	1,090.90	3,404.58	3,408.64	1.54	-0.53	-1.45
8,355.00	87.21	89.070	4,902.76	1,092.45	3,499.44	3,503.51	0.30	0.29	0.02
8,449.00	86.92	88.610	4,907.57	1,094.35	3,593.30	3,597.38	0.58	-0.31	-0.49
8,542.00	89.48	90.160	4,910.49	1,095.35	3,686.23	3,690.32	3.22	2.75	1.67
8,637.00	89.29	89.500	4,911.51	1,095.63	3,781.23	3,785.31	0.72	-0.20	-0.69
8,732.00	89.33	89.010	4,912.65	1,096.87	3,876.21	3,880.30	0.52	0.04	-0.52
8,826.00	89.74	89.150	4,913.42	1,098.37	3,970.20	3,974.29	0.46	0.44	0.15
8,920.00	89.98	89.150	4,913.65	1,099.77	4,064.19	4,068.28	0.26	0.26	0.00
9,014.00	90.13	89.270	4,913.56	1,101.07	4,158.18	4,162.28	0.20	0.16	0.13
9,108.00	90.27	89.090	4,913.23	1,102.41	4,252.17	4,256.27	0.24	0.15	-0.19
9,202.00	90.21	88.940	4,912.83	1,104.03	4,346.15	4,350.26	0.17	-0.06	-0.16
9,296.00	89.23	87.900	4,913.29	1,106.62	4,440.11	4,444.23	1.52	-1.04	-1.11
9,390.00	89.07	88.960	4,914.69	1,109.19	4,534.07	4,538.20	1.14	-0.17	1.13



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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)
9,484.00	89.30	89.040	4,916.02	1,110.83	4,628.04	4,632.18	0.26	0.24	0.09
9,579.00	90.17	89.940	4,916.46	1,111.68	4,723.03	4,727.17	1.32	0.92	0.95
9,673.00	90.23	89.750	4,916.14	1,111.93	4,817.03	4,821.17	0.21	0.06	-0.20
9,767.00	89.02	88.520	4,916.75	1,113.35	4,911.02	4,915.16	1.84	-1.29	-1.31
9,862.00	90.10	89.860	4,917.48	1,114.70	5,006.00	5,010.15	1.81	1.14	1.41
9,956.00	89.97	89.520	4,917.42	1,115.20	5,100.00	5,104.15	0.39	-0.14	-0.36
10,051.00	89.39	88.610	4,917.95	1,116.75	5,194.98	5,199.14	1.14	-0.61	-0.96
10,145.00	88.91	90.720	4,919.35	1,117.30	5,288.97	5,293.12	2.30	-0.51	2.24
10,239.00	89.14	90.500	4,920.95	1,116.30	5,382.95	5,387.10	0.34	0.24	-0.23
10,333.00	89.88	90.810	4,921.75	1,115.23	5,476.94	5,481.08	0.85	0.79	0.33
10,428.00	90.26	90.900	4,921.64	1,113.81	5,571.93	5,576.07	0.41	0.40	0.09
10,522.00	90.31	90.850	4,921.17	1,112.38	5,665.91	5,670.05	0.08	0.05	-0.05
10,616.00	90.11	90.580	4,920.82	1,111.20	5,759.91	5,764.04	0.36	-0.21	-0.29
10,711.00	89.11	89.130	4,921.47	1,111.44	5,854.90	5,859.03	1.85	-1.05	-1.53
10,805.00	89.64	89.090	4,922.50	1,112.90	5,948.88	5,953.02	0.57	0.56	-0.04
10,899.00	90.99	89.810	4,921.98	1,113.81	6,042.87	6,047.01	1.63	1.44	0.77
10,993.00	90.90	89.810	4,920.43	1,114.12	6,136.86	6,141.00	0.10	-0.10	0.00
11,087.00	90.87	89.570	4,918.98	1,114.63	6,230.85	6,234.99	0.26	-0.03	-0.26
11,182.00	91.09	89.380	4,917.35	1,115.50	6,325.83	6,329.97	0.31	0.23	-0.20
11,276.00	90.77	91.210	4,915.83	1,115.01	6,419.81	6,423.95	1.98	-0.34	1.95
11,370.00	89.50	89.970	4,915.60	1,114.04	6,513.80	6,517.94	1.89	-1.35	-1.32
11,465.00	89.49	89.500	4,916.44	1,114.48	6,608.80	6,612.93	0.49	-0.01	-0.49
11,559.00	88.94	89.060	4,917.73	1,115.66	6,702.78	6,706.92	0.75	-0.59	-0.47
11,654.00	88.47	88.360	4,919.88	1,117.80	6,797.73	6,801.88	0.89	-0.49	-0.74
11,748.00	90.39	91.300	4,920.81	1,118.08	6,891.71	6,895.86	3.74	2.04	3.13
11,842.00	90.87	91.600	4,919.78	1,115.70	6,985.68	6,989.81	0.60	0.51	0.32
11,937.00	90.83	91.130	4,918.37	1,113.44	7,080.64	7,084.77	0.50	-0.04	-0.49
12,031.00	90.49	90.540	4,917.29	1,112.07	7,174.62	7,178.75	0.72	-0.36	-0.63
12,125.00	92.00	91.160	4,915.24	1,110.68	7,268.59	7,272.70	1.74	1.61	0.66
12,219.00	92.54	90.750	4,911.52	1,109.11	7,362.50	7,366.61	0.72	0.57	-0.44
12,313.00	89.98	90.140	4,909.45	1,108.38	7,456.47	7,460.57	2.80	-2.72	-0.65
12,407.00	90.20	90.160	4,909.31	1,108.13	7,550.47	7,554.57	0.24	0.23	0.02
12,501.00	89.08	89.190	4,909.90	1,108.67	7,644.46	7,648.57	1.58	-1.19	-1.03
12,595.00	89.53	89.050	4,911.04	1,110.11	7,738.44	7,742.55	0.50	0.48	-0.15
12,689.00	87.65	88.720	4,913.35	1,111.94	7,832.39	7,836.51	2.03	-2.00	-0.35
12,783.00	89.17	89.340	4,915.96	1,113.53	7,926.34	7,930.46	1.75	1.62	0.66
12,877.00	90.68	89.980	4,916.08	1,114.09	8,020.33	8,024.46	1.74	1.61	0.68
12,971.00	88.80	90.320	4,916.51	1,113.84	8,114.33	8,118.45	2.03	-2.00	0.36
13,065.00	89.00	90.280	4,918.31	1,113.35	8,208.31	8,212.43	0.22	0.21	-0.04
13,159.00	89.53	90.340	4,919.52	1,112.84	8,302.30	8,306.42	0.57	0.56	0.06
13,253.00	90.31	90.140	4,919.65	1,112.45	8,396.30	8,400.41	0.86	0.83	-0.21
13,347.00	87.53	91.150	4,921.42	1,111.39	8,490.26	8,494.37	3.15	-2.96	1.07



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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)	
13,441.00	88.36	91.400	4,924.79	1,109.30	8,584.18	8,588.28	0.92	0.88	0.27	
13,535.00	90.07	91.840	4,926.08	1,106.64	8,678.13	8,682.22	1.88	1.82	0.47	
13,629.00	91.52	92.470	4,924.78	1,103.11	8,772.05	8,776.13	1.68	1.54	0.67	
13,724.00	92.15	92.270	4,921.73	1,099.18	8,866.92	8,870.98	0.70	0.66	-0.21	
13,819.00	89.63	88.820	4,920.26	1,098.28	8,961.88	8,965.94	4.50	-2.65	-3.63	
13,913.00	88.89	87.520	4,921.47	1,101.28	9,055.82	9,059.89	1.59	-0.79	-1.38	
13,975.00	88.89	87.520	4,922.67	1,103.96	9,117.75	9,121.83	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	449.98	-0.35	-3.45	MWD surveys	
2,986.40	2,859.95	735.59	-67.42	9 5/8" Casing shoe @ 2986.40 MD 2859.95 TVD	
5,204.71	4,832.00	1,051.52	355.53	FTP @ 5204.71 MD 4832.00 TVD	
5,378.00	4,872.13	1,057.89	523.57	400 FNL 100 FWL @ 5378.00 MD 4872.13 TVD	
13,872.40	4,920.80	1,099.72	9,015.26	LTP @ 13872.40 MD 4920.80 TVD	
13,913.00	4,921.47	1,101.28	9,055.82	Survey @ 13913.00 MD 4921.47 TVD	
13,975.00	4,922.67	1,103.96	9,117.75	Survey proj. to 13975 MD 4922.67 TVD 387 FNL 1906 FEL	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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 #503H, Surf loc: 1461 FNL 425 FEL Section 25-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,892,495.349 usft	Latitude:	36.201051000
	+E/-W	0.00 ft	Easting:	2,752,703.525 usft	Longitude:	-107.732966000
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	49,043.04895002

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	89.785	

Survey Program	Date	1/3/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,854.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,917.00	13,913.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
13,975.00	13,975.00	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	1,892,495.349	2,752,703.525	36.201051000	-107.732966000	
8.00	0.00	0.000	8.00	0.00	0.00	1,892,495.349	2,752,703.525	36.201051000	-107.732966000	
450.00	0.90	264.160	449.98	-0.35	-3.45	1,892,494.995	2,752,700.072	36.201050039	-107.732977706	
480.00	0.91	272.730	479.98	-0.37	-3.93	1,892,494.983	2,752,699.600	36.201050006	-107.732979307	
538.00	1.05	340.430	537.97	0.16	-4.56	1,892,495.505	2,752,698.962	36.201051444	-107.732981468	
599.00	2.08	359.070	598.95	1.79	-4.77	1,892,497.139	2,752,698.756	36.201055932	-107.732982158	
659.00	3.51	4.290	658.88	4.71	-4.65	1,892,500.059	2,752,698.876	36.201063954	-107.732981742	
719.00	5.05	6.110	718.71	9.17	-4.23	1,892,504.517	2,752,699.295	36.201076198	-107.732980308	
780.00	6.79	6.170	779.38	15.42	-3.56	1,892,510.772	2,752,699.968	36.201093380	-107.732978003	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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	8.56	6.380	838.84	23.39	-2.68	1,892,518.737	2,752,700.845	36.201115257	-107.732975001
899.00	10.75	4.820	897.00	33.24	-1.73	1,892,528.585	2,752,701.796	36.201142307	-107.732971745
958.00	13.04	0.870	954.73	45.38	-1.17	1,892,540.725	2,752,702.359	36.201175656	-107.732969793
1,024.00	15.34	0.050	1,018.71	61.55	-1.05	1,892,556.902	2,752,702.480	36.201220096	-107.732969327
1,087.00	17.30	359.980	1,079.17	79.26	-1.04	1,892,574.604	2,752,702.484	36.201268726	-107.732969251
1,150.00	19.21	358.920	1,139.00	98.99	-1.24	1,892,594.336	2,752,702.285	36.201322931	-107.732969855
1,213.00	19.63	357.890	1,198.41	119.93	-1.82	1,892,615.274	2,752,701.700	36.201380451	-107.732971765
1,276.00	19.74	356.930	1,257.73	141.12	-2.78	1,892,636.473	2,752,700.741	36.201438690	-107.732974942
1,339.00	20.00	356.400	1,316.98	162.50	-4.03	1,892,657.849	2,752,699.495	36.201497416	-107.732979092
1,402.00	19.50	354.260	1,376.28	183.72	-5.76	1,892,679.064	2,752,697.767	36.201555701	-107.732984875
1,465.00	18.89	352.370	1,435.77	204.29	-8.16	1,892,699.634	2,752,695.361	36.201612217	-107.732992957
1,528.00	18.88	351.830	1,495.38	224.48	-10.97	1,892,719.832	2,752,692.558	36.201667709	-107.733002385
1,591.00	18.89	352.370	1,554.99	244.68	-13.77	1,892,740.029	2,752,689.756	36.201723201	-107.733011814
1,655.00	19.32	352.520	1,615.47	265.45	-16.52	1,892,760.795	2,752,687.002	36.201780253	-107.733021075
1,718.00	20.40	353.830	1,674.72	286.70	-19.06	1,892,782.045	2,752,684.465	36.201838636	-107.733029599
1,781.00	20.71	354.370	1,733.71	308.70	-21.33	1,892,804.047	2,752,682.192	36.201899085	-107.733037226
1,844.00	20.44	353.510	1,792.69	330.72	-23.67	1,892,826.063	2,752,679.856	36.201959572	-107.733045067
1,907.00	20.23	353.300	1,851.76	352.46	-26.18	1,892,847.811	2,752,677.342	36.202019324	-107.733053513
1,970.00	20.14	353.110	1,910.89	374.05	-28.76	1,892,869.397	2,752,674.770	36.202078628	-107.733062155
2,032.00	20.24	352.880	1,969.08	395.29	-31.37	1,892,890.635	2,752,672.160	36.202136980	-107.733070926
2,096.00	21.06	354.750	2,028.97	417.72	-33.79	1,892,913.072	2,752,669.735	36.202198622	-107.733079065
2,159.00	21.32	354.620	2,087.71	440.40	-35.90	1,892,935.746	2,752,667.626	36.202260916	-107.733086136
2,222.00	21.56	354.300	2,146.35	463.32	-38.12	1,892,958.666	2,752,665.402	36.202323887	-107.733093592
2,285.00	21.54	353.580	2,204.95	486.33	-40.57	1,892,981.677	2,752,662.960	36.202387108	-107.733101791
2,348.00	21.70	352.930	2,263.52	509.38	-43.29	1,893,004.728	2,752,660.233	36.202450439	-107.733110953
2,411.00	22.00	353.200	2,321.99	532.66	-46.12	1,893,028.004	2,752,657.402	36.202514388	-107.733120466
2,474.00	21.77	353.050	2,380.45	555.97	-48.93	1,893,051.318	2,752,654.591	36.202578441	-107.733129912
2,538.00	21.14	354.130	2,440.02	579.23	-51.55	1,893,074.579	2,752,651.975	36.202642350	-107.733138699
2,601.00	21.51	354.310	2,498.70	602.03	-53.86	1,893,097.373	2,752,649.668	36.202704974	-107.733146438
2,664.00	21.19	354.640	2,557.38	624.86	-56.07	1,893,120.203	2,752,647.459	36.202767695	-107.733153845
2,727.00	20.30	354.320	2,616.29	647.07	-58.21	1,893,142.414	2,752,645.314	36.202828718	-107.733161039
2,790.00	20.06	354.170	2,675.43	668.69	-60.39	1,893,164.038	2,752,643.135	36.202888126	-107.733168349
2,854.00	19.96	354.150	2,735.56	690.48	-62.62	1,893,185.824	2,752,640.906	36.202947981	-107.733175826
2,917.00	20.01	353.960	2,794.77	711.89	-64.85	1,893,207.240	2,752,638.676	36.203006819	-107.733183310
3,041.00	20.28	353.430	2,911.18	754.34	-69.54	1,893,249.686	2,752,633.985	36.203123436	-107.733199062
3,072.00	20.24	350.620	2,940.27	764.97	-71.03	1,893,260.314	2,752,632.497	36.203152636	-107.733204071
3,167.00	19.82	353.270	3,029.52	797.18	-75.59	1,893,292.522	2,752,627.931	36.203241129	-107.733219434
3,261.00	19.02	351.660	3,118.17	828.16	-79.68	1,893,323.505	2,752,623.841	36.203326252	-107.733233186
3,356.00	20.15	358.180	3,207.69	859.83	-82.45	1,893,355.180	2,752,621.076	36.203413276	-107.733242449
3,450.00	20.04	357.700	3,295.96	892.11	-83.61	1,893,387.455	2,752,619.915	36.203501942	-107.733246270
3,544.00	16.71	355.430	3,385.16	921.68	-85.33	1,893,417.028	2,752,618.192	36.203583185	-107.733252009
3,639.00	13.66	353.380	3,476.83	946.44	-87.72	1,893,441.791	2,752,615.810	36.203651218	-107.733259996
3,733.00	11.17	351.660	3,568.63	966.48	-90.32	1,893,461.828	2,752,613.209	36.203706270	-107.733268741
3,827.00	10.64	348.990	3,660.93	984.01	-93.29	1,893,479.355	2,752,610.231	36.203754426	-107.733278774
3,922.00	10.48	348.850	3,754.32	1,001.09	-96.64	1,893,496.441	2,752,606.885	36.203801372	-107.733290054
4,016.00	7.24	339.900	3,847.19	1,015.05	-100.33	1,893,510.395	2,752,603.196	36.203839716	-107.733302513
4,110.00	3.82	336.880	3,940.74	1,023.49	-103.60	1,893,518.840	2,752,599.929	36.203862924	-107.733313554
4,205.00	0.98	318.770	4,035.65	1,027.02	-105.37	1,893,522.362	2,752,598.151	36.203872605	-107.733319569
4,299.00	0.64	274.830	4,129.64	1,027.66	-106.43	1,893,523.011	2,752,597.098	36.203874390	-107.733323136
4,394.00	2.94	87.140	4,224.61	1,027.83	-104.52	1,893,523.177	2,752,599.003	36.203874841	-107.733316678
4,425.00	2.89	89.720	4,255.57	1,027.87	-102.95	1,893,523.220	2,752,600.579	36.203874956	-107.733311337
4,456.00	4.93	86.840	4,286.49	1,027.95	-100.84	1,893,523.298	2,752,602.691	36.203875163	-107.733304179
4,488.00	8.97	86.150	4,318.25	1,028.19	-96.97	1,893,523.541	2,752,606.554	36.203875820	-107.733291083
4,519.00	12.54	83.840	4,348.70	1,028.72	-91.21	1,893,524.065	2,752,612.313	36.203877242	-107.733271560



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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
4,551.00	16.00	85.850	4,379.71	1,029.41	-83.36	1,893,524.757	2,752,620.168	36.203879121	-107.733244933
4,582.00	18.64	89.520	4,409.30	1,029.76	-74.14	1,893,525.107	2,752,629.385	36.203880059	-107.733213690
4,613.00	22.04	93.210	4,438.36	1,029.48	-63.38	1,893,524.823	2,752,640.150	36.203879247	-107.733177203
4,645.00	25.04	92.660	4,467.70	1,028.83	-50.61	1,893,524.172	2,752,652.912	36.203877424	-107.733133947
4,676.00	27.78	91.020	4,495.46	1,028.39	-36.83	1,893,523.739	2,752,666.691	36.203876195	-107.733087244
4,708.00	30.67	88.680	4,523.39	1,028.45	-21.21	1,893,523.795	2,752,682.311	36.203876302	-107.733034302
4,739.00	33.78	87.740	4,549.61	1,028.97	-4.69	1,893,524.317	2,752,698.830	36.203877690	-107.732978305
4,771.00	35.98	87.230	4,575.86	1,029.78	13.59	1,893,525.122	2,752,717.111	36.203879850	-107.732916340
4,802.00	38.24	86.730	4,600.58	1,030.76	32.26	1,893,526.109	2,752,735.787	36.203882509	-107.732853032
4,833.00	40.93	86.110	4,624.47	1,032.00	51.98	1,893,527.346	2,752,755.500	36.203885849	-107.732786209
4,865.00	44.57	85.640	4,647.96	1,033.56	73.64	1,893,528.911	2,752,777.162	36.203890088	-107.732712782
4,896.00	46.94	85.680	4,669.59	1,035.24	95.78	1,893,530.591	2,752,799.304	36.203894640	-107.732637724
4,927.00	49.09	86.060	4,690.32	1,036.90	118.76	1,893,532.249	2,752,822.285	36.203899130	-107.732559821
4,959.00	51.22	85.790	4,710.83	1,038.65	143.27	1,893,533.996	2,752,846.791	36.203903858	-107.732476753
4,990.00	54.16	86.300	4,729.61	1,040.35	167.86	1,893,535.694	2,752,871.386	36.203908453	-107.732393381
5,021.00	57.03	86.400	4,747.13	1,041.98	193.38	1,893,537.322	2,752,896.908	36.203912852	-107.732306866
5,053.00	58.82	86.420	4,764.12	1,043.67	220.44	1,893,539.020	2,752,923.969	36.203917438	-107.732215136
5,084.00	59.02	86.280	4,780.12	1,045.36	246.94	1,893,540.710	2,752,950.465	36.203922006	-107.732125320
5,115.00	61.50	86.330	4,795.50	1,047.10	273.80	1,893,542.444	2,752,977.324	36.203926693	-107.732034275
5,147.00	64.75	86.580	4,809.96	1,048.86	302.28	1,893,544.208	2,753,005.809	36.203931457	-107.731937716
5,178.00	67.90	87.260	4,822.41	1,050.39	330.63	1,893,545.732	2,753,034.155	36.203935560	-107.731841630
5,210.00	70.43	87.570	4,833.79	1,051.73	360.51	1,893,547.080	2,753,064.030	36.203939177	-107.731740364
5,241.00	72.38	87.640	4,843.68	1,052.96	389.86	1,893,548.307	2,753,093.384	36.203942465	-107.731640861
5,273.00	74.87	87.690	4,852.70	1,054.21	420.53	1,893,549.558	2,753,124.058	36.203945812	-107.731536885
5,304.00	77.91	87.740	4,859.99	1,055.41	450.64	1,893,550.759	2,753,154.160	36.203949025	-107.731434849
5,336.00	80.65	88.000	4,865.94	1,056.58	482.05	1,893,551.927	2,753,185.577	36.203952143	-107.731328356
5,367.00	81.92	88.300	4,870.64	1,057.57	512.68	1,893,552.916	2,753,216.202	36.203954772	-107.731224546
5,399.00	83.77	88.390	4,874.63	1,058.49	544.41	1,893,553.833	2,753,247.938	36.203957199	-107.731116972
5,430.00	86.66	88.870	4,877.21	1,059.22	575.29	1,893,554.571	2,753,278.818	36.203959137	-107.731012301
5,461.00	88.49	89.710	4,878.52	1,059.61	606.26	1,893,554.955	2,753,309.786	36.203960101	-107.730907331
5,524.00	88.99	88.710	4,879.91	1,060.48	669.24	1,893,555.823	2,753,372.764	36.203962304	-107.730693862
5,619.00	89.60	88.400	4,881.08	1,062.87	764.20	1,893,558.219	2,753,467.726	36.203968608	-107.730371975
5,713.00	89.61	89.010	4,881.73	1,065.00	858.18	1,893,560.343	2,753,561.699	36.203974170	-107.730053441
5,807.00	89.77	89.690	4,882.23	1,066.06	952.17	1,893,561.410	2,753,655.691	36.203976824	-107.729734847
5,901.00	90.00	89.650	4,882.42	1,066.60	1,046.17	1,893,561.951	2,753,749.689	36.203978035	-107.729416234
5,996.00	90.21	89.940	4,882.25	1,066.94	1,141.16	1,893,562.291	2,753,844.688	36.203978688	-107.729094229
6,090.00	89.51	88.980	4,882.48	1,067.83	1,235.16	1,893,563.177	2,753,938.681	36.203980844	-107.728775629
6,185.00	90.11	89.160	4,882.79	1,069.37	1,330.15	1,893,564.719	2,754,033.668	36.203984798	-107.728453663
6,279.00	90.48	89.040	4,882.31	1,070.85	1,424.13	1,893,566.195	2,754,127.654	36.203988575	-107.728135084
6,373.00	89.19	89.350	4,882.58	1,072.17	1,518.12	1,893,567.516	2,754,221.642	36.203991922	-107.727816502
6,468.00	89.60	89.170	4,883.58	1,073.40	1,613.11	1,893,568.743	2,754,316.629	36.203995008	-107.727494536
6,562.00	89.96	88.840	4,883.94	1,075.03	1,707.09	1,893,570.375	2,754,410.613	36.203999210	-107.727175964
6,657.00	88.45	88.870	4,885.26	1,076.93	1,802.06	1,893,572.273	2,754,505.582	36.204004138	-107.726854055
6,750.00	88.10	88.450	4,888.06	1,079.10	1,894.99	1,893,574.447	2,754,598.514	36.204009829	-107.726539050
6,844.00	88.39	88.410	4,890.94	1,081.67	1,988.91	1,893,577.021	2,754,692.435	36.204016617	-107.726220692
6,939.00	89.98	90.140	4,892.29	1,082.88	2,083.89	1,893,578.223	2,754,787.411	36.204019629	-107.725898761
7,033.00	91.14	90.140	4,891.37	1,082.65	2,177.88	1,893,577.993	2,754,881.404	36.204018712	-107.725580167
7,128.00	90.85	89.480	4,889.72	1,082.96	2,272.87	1,893,578.308	2,754,976.388	36.204019287	-107.725258211
7,222.00	90.11	89.080	4,888.94	1,084.14	2,366.86	1,893,579.489	2,755,070.377	36.204022243	-107.724939628
7,316.00	89.67	89.360	4,889.12	1,085.42	2,460.85	1,893,580.769	2,755,164.367	36.204025470	-107.724621037
7,410.00	89.04	88.810	4,890.17	1,086.92	2,554.83	1,893,582.270	2,755,258.348	36.204029303	-107.724302478
7,504.00	89.62	88.960	4,891.27	1,088.75	2,648.80	1,893,584.099	2,755,352.323	36.204034037	-107.723983937
7,599.00	91.09	89.620	4,890.68	1,089.93	2,743.79	1,893,585.276	2,755,447.311	36.204036976	-107.723661967
7,693.00	91.64	89.720	4,888.45	1,090.47	2,837.76	1,893,585.817	2,755,541.282	36.204038171	-107.723343445



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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
7,787.00	88.60	89.670	4,888.25	1,090.97	2,931.75	1,893,586.317	2,755,635.269	36.204039252	-107.723024868
7,882.00	89.18	90.060	4,890.09	1,091.19	3,026.73	1,893,586.541	2,755,730.250	36.204039570	-107.722702923
7,977.00	89.58	89.970	4,891.12	1,091.17	3,121.73	1,893,586.516	2,755,825.245	36.204039203	-107.722380936
8,071.00	90.21	90.230	4,891.29	1,091.01	3,215.72	1,893,586.352	2,755,919.243	36.204038457	-107.722062322
8,165.00	87.43	90.430	4,893.22	1,090.46	3,309.69	1,893,585.811	2,756,013.213	36.204036674	-107.721743811
8,260.00	86.93	89.050	4,897.90	1,090.90	3,404.58	1,893,586.241	2,756,108.094	36.204037556	-107.721422205
8,355.00	87.21	89.070	4,902.76	1,092.45	3,499.44	1,893,587.798	2,756,202.956	36.204041530	-107.721100656
8,449.00	86.92	88.610	4,907.57	1,094.35	3,593.30	1,893,589.698	2,756,296.813	36.204046452	-107.720782516
8,542.00	89.48	90.160	4,910.49	1,095.35	3,686.23	1,893,590.695	2,756,389.751	36.204048894	-107.720467494
8,637.00	89.29	89.500	4,911.51	1,095.63	3,781.23	1,893,590.977	2,756,484.745	36.204049364	-107.720145507
8,732.00	89.33	89.010	4,912.65	1,096.87	3,876.21	1,893,592.212	2,756,579.729	36.204052452	-107.719823547
8,826.00	89.74	89.150	4,913.42	1,098.37	3,970.20	1,893,593.721	2,756,673.714	36.204056295	-107.719504976
8,920.00	89.98	89.150	4,913.65	1,099.77	4,064.19	1,893,595.116	2,756,767.703	36.204059823	-107.719186389
9,014.00	90.13	89.270	4,913.56	1,101.07	4,158.18	1,893,596.412	2,756,861.694	36.204063079	-107.718867798
9,108.00	90.27	89.090	4,913.23	1,102.41	4,252.17	1,893,597.757	2,756,955.683	36.204066469	-107.718549210
9,202.00	90.21	88.940	4,912.83	1,104.03	4,346.15	1,893,599.373	2,757,049.668	36.204070602	-107.718230636
9,296.00	89.23	87.900	4,913.29	1,106.62	4,440.11	1,893,601.965	2,757,143.629	36.204077415	-107.717912141
9,390.00	89.07	88.960	4,914.69	1,109.19	4,534.07	1,893,604.540	2,757,237.581	36.204084182	-107.717593673
9,484.00	89.30	89.040	4,916.02	1,110.83	4,628.04	1,893,606.180	2,757,331.557	36.204088380	-107.717275130
9,579.00	90.17	89.940	4,916.46	1,111.68	4,723.03	1,893,607.026	2,757,426.551	36.204090390	-107.716953142
9,673.00	90.23	89.750	4,916.14	1,111.93	4,817.03	1,893,607.280	2,757,520.549	36.204090778	-107.716634526
9,767.00	89.02	88.520	4,916.75	1,113.35	4,911.02	1,893,608.699	2,757,614.533	36.204094365	-107.716315958
9,862.00	90.10	89.860	4,917.48	1,114.70	5,006.00	1,893,610.042	2,757,709.517	36.204097739	-107.715993999
9,956.00	89.97	89.520	4,917.42	1,115.20	5,100.00	1,893,610.550	2,757,803.515	36.204098823	-107.715675385
10,051.00	89.39	88.610	4,917.95	1,116.75	5,194.98	1,893,612.100	2,757,898.499	36.204102764	-107.715353424
10,145.00	88.91	90.720	4,919.35	1,117.30	5,288.97	1,893,612.650	2,757,992.482	36.204103960	-107.715034864
10,239.00	89.14	90.500	4,920.95	1,116.30	5,382.95	1,893,611.649	2,758,086.462	36.204100896	-107.714716315
10,333.00	89.88	90.810	4,921.75	1,115.23	5,476.94	1,893,610.575	2,758,180.452	36.204097628	-107.714397737
10,428.00	90.26	90.900	4,921.64	1,113.81	5,571.93	1,893,609.157	2,758,275.441	36.204093413	-107.714075772
10,522.00	90.31	90.850	4,921.17	1,112.38	5,665.91	1,893,607.722	2,758,369.429	36.204089152	-107.713757202
10,616.00	90.11	90.580	4,920.82	1,111.20	5,759.91	1,893,606.549	2,758,463.420	36.204085611	-107.713438617
10,711.00	89.11	89.130	4,921.47	1,111.44	5,854.90	1,893,606.789	2,758,558.414	36.204085948	-107.713116630
10,805.00	89.64	89.090	4,922.50	1,112.90	5,948.88	1,893,608.249	2,758,652.396	36.204089638	-107.712798065
10,899.00	90.99	89.810	4,921.98	1,113.81	6,042.87	1,893,609.151	2,758,746.388	36.204091796	-107.712479473
10,993.00	90.90	89.810	4,920.43	1,114.12	6,136.86	1,893,609.463	2,758,840.374	36.204092330	-107.712160899
11,087.00	90.87	89.570	4,918.98	1,114.63	6,230.85	1,893,609.972	2,758,934.361	36.204093404	-107.711842322
11,182.00	91.09	89.380	4,917.35	1,115.50	6,325.83	1,893,610.842	2,759,029.343	36.204095468	-107.711520372
11,276.00	90.77	91.210	4,915.83	1,115.01	6,419.81	1,893,610.358	2,759,123.325	36.204093814	-107.711201817
11,370.00	89.50	89.970	4,915.60	1,114.04	6,513.80	1,893,609.390	2,759,217.316	36.204090829	-107.710883234
11,465.00	89.49	89.500	4,916.44	1,114.48	6,608.80	1,893,609.830	2,759,312.311	36.204091706	-107.710561242
11,559.00	88.94	89.060	4,917.73	1,115.66	6,702.78	1,893,611.011	2,759,406.294	36.204094624	-107.710242677
11,654.00	88.47	88.360	4,919.88	1,117.80	6,797.73	1,893,613.149	2,759,501.244	36.204100166	-107.709920827
11,748.00	90.39	91.300	4,920.81	1,118.08	6,891.71	1,893,613.427	2,759,595.224	36.204100602	-107.709602276
11,842.00	90.87	91.600	4,919.78	1,115.70	6,985.68	1,893,611.049	2,759,689.188	36.204093738	-107.709283791
11,937.00	90.83	91.130	4,918.37	1,113.44	7,080.64	1,893,608.786	2,759,784.150	36.204087188	-107.708961922
12,031.00	90.49	90.540	4,917.29	1,112.07	7,174.62	1,893,607.416	2,759,878.133	36.204083094	-107.708643367
12,125.00	92.00	91.160	4,915.24	1,110.68	7,268.59	1,893,606.022	2,759,972.097	36.204078932	-107.708324877
12,219.00	92.54	90.750	4,911.52	1,109.11	7,362.50	1,893,604.457	2,760,066.010	36.204074299	-107.708006562
12,313.00	89.98	90.140	4,909.45	1,108.38	7,456.47	1,893,603.727	2,760,159.976	36.204071961	-107.707688063
12,407.00	90.20	90.160	4,909.31	1,108.13	7,550.47	1,893,603.481	2,760,253.975	36.204070950	-107.707369448
12,501.00	89.08	89.190	4,909.90	1,108.67	7,644.46	1,893,604.014	2,760,347.969	36.204072079	-107.707050849
12,595.00	89.53	89.050	4,911.04	1,110.11	7,738.44	1,893,605.458	2,760,441.950	36.204075708	-107.706732287
12,689.00	87.65	88.720	4,913.35	1,111.94	7,832.39	1,893,607.286	2,760,535.900	36.204080393	-107.706413833
12,783.00	89.17	89.340	4,915.96	1,113.53	7,926.34	1,893,608.877	2,760,629.847	36.204084424	-107.706095388



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #503H
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 #503H	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
12,877.00	90.68	89.980	4,916.08	1,114.09	8,020.33	1,893,609.434	2,760,723.841	36.204085617	-107.705776785
12,971.00	88.80	90.320	4,916.51	1,113.84	8,114.33	1,893,609.188	2,760,817.836	36.204084602	-107.705458187
13,065.00	89.00	90.280	4,918.31	1,113.35	8,208.31	1,893,608.696	2,760,911.817	36.204082909	-107.705139636
13,159.00	89.53	90.340	4,919.52	1,112.84	8,302.30	1,893,608.188	2,761,005.807	36.204081170	-107.704821053
13,253.00	90.31	90.140	4,919.65	1,112.45	8,396.30	1,893,607.794	2,761,099.805	36.204079746	-107.704502443
13,347.00	87.53	91.150	4,921.42	1,111.39	8,490.26	1,893,606.736	2,761,193.772	36.204076498	-107.704183942
13,441.00	88.36	91.400	4,924.79	1,109.30	8,584.18	1,893,604.646	2,761,287.687	36.204070412	-107.703865621
13,535.00	90.07	91.840	4,926.08	1,106.64	8,678.13	1,893,601.989	2,761,381.637	36.204062767	-107.703547186
13,629.00	91.52	92.470	4,924.78	1,103.11	8,772.05	1,893,598.455	2,761,475.558	36.204052713	-107.703228851
13,724.00	92.15	92.270	4,921.73	1,099.18	8,866.92	1,893,594.528	2,761,570.427	36.204041577	-107.702907304
13,819.00	89.63	88.820	4,920.26	1,098.28	8,961.88	1,893,593.626	2,761,665.390	36.204038747	-107.702585429
13,913.00	88.89	87.520	4,921.47	1,101.28	9,055.82	1,893,596.627	2,761,759.331	36.204046644	-107.702266997
13,975.00	88.89	87.520	4,922.67	1,103.96	9,117.75	1,893,599.310	2,761,821.261	36.204053782	-107.702057069

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
450.00	449.98	-0.35	-3.45	MWD surveys
2,986.40	2,859.95	735.59	-67.42	9 5/8" Casing shoe @ 2986.40 MD 2859.95 TVD
5,204.71	4,832.00	1,051.52	355.53	FTP @ 5204.71 MD 4832.00 TVD
5,378.00	4,872.13	1,057.89	523.57	400 FNL 100 FWL @ 5378.00 MD 4872.13 TVD
13,872.40	4,920.80	1,099.72	9,015.26	LTP @ 13872.40 MD 4920.80 TVD
13,913.00	4,921.47	1,101.28	9,055.82	Survey @ 13913.00 MD 4921.47 TVD
13,975.00	4,922.67	1,103.96	9,117.75	Survey proj. to 13975 MD 4922.67 TVD 387 FNL 1906 FEL

WELL NAME: **RODEO UNIT 503H**
OBJECTIVE: **Drill, complete, and equip single lateral in the Mancos-I formation**
API Number: 30-045-38322
AFE Number: DV03104
ER Well Number: NM08364.01

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 1,461 ft FNL 425 ft FEL
BH Location: 29-23N-08W Sec-Twn- Rng 380 ft FNL 1977 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 503H is closest to the location entrance and the existing facilities and directly across from the 508H 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	3,021	9.625	36.0	J-55	LTC	0	3,021
Production	8.500	13,965	5.500	17.0	P-110	LTC	0	13,965

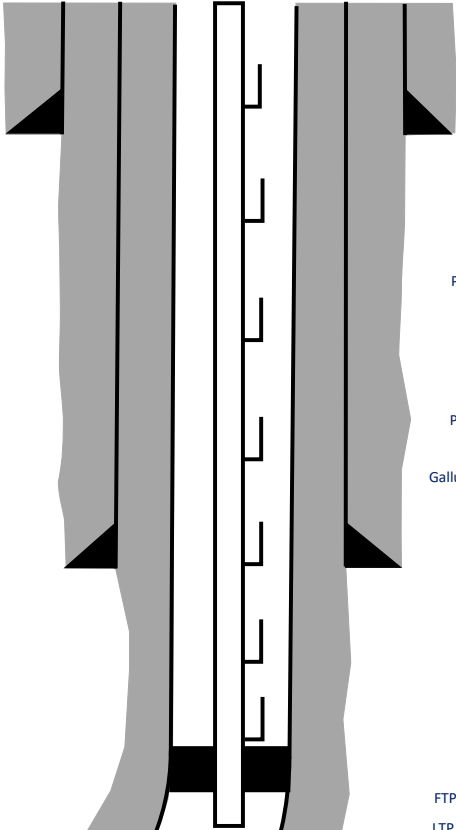
CEMENT PROPERTIES SUMMARY:

	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	578
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,378	149
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	525
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	2,956	1,606

COMPLETION / PRODUCTION SUMMARY:

Frac: 8423
Flowback: Flow back through production tubing as pressures allow
Production: Produce through production tubing via gas-lift into permanent production and storage facilities

QUICK REFERENCE	
Sur TD (MD)	377 ft
Int TD (MD)	3,021 ft
KOP (MD)	4,460 ft
KOP (TVD)	4,286 ft
Target (TVD)	4,889 ft
Curve BUR	10 °/100 ft
POE (MD)	5,418 ft
TD (MD)	13,965 ft
Lat Len (ft)	8,523 ft



Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	571	571
Kirtland	657	657
Fruitland	861	863
Pictured Cliffs	1,168	1,182
Lewis	1,327	1,351
Chacra	1,586	1,626
Cliff House	2,656	2,762
Menefee	2,674	2,782
Point Lookout	3,648	3,814
Mancos	3,814	3,986
Gallup (MNCS_A)	4,139	4,313
MNCS_B	4,224	4,398
MNCS_C	4,324	4,498
MNCS_Cms	4,373	4,547
MNCS_D	4,492	4,671
MNCS_E	4,642	4,844
MNCS_F	4,699	4,921
MNCS_G	4,775	5,046
MNCS_H	4,829	5,456
MNCS_I	4,873	5,284
FTP (LP) TARGET	4,889	5,418
LTP (TD) TARGET	4,929	13,941

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 301153

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 301153
	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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
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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

CONDITIONS

Action 301153

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 301153
	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