

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 NW	
⁴ API Number 30-045-38170	⁵ Pool Name BASIN MANCOS		⁶ Pool Code 97232
⁷ Property Code 321253	⁸ Property Name RODEO UNIT		⁹ Well Number #495H

II. ¹⁰ Surface Location

UL or lot no. D	Section 31	Township 23N	Range 8W	Lot Idn 1	Feet from the 225'	North/South Line NORTH	Feet from the 895'	East/West line WEST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no. P	Section 31	Township 23N	Range 8W	Lot Idn	Feet from the 152'	North/South line SOUTH	Feet from the 831'	East/West line EAST	County SAN JUAN
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 1/17/2023		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

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

IV. Well Completion Data

²¹ Spud Date 8/4/2022	²² Ready Date 1/17/2023	²³ TD 12281' MD 4515' TVD	²⁴ PBDT 12165' MD 4513' TVD	²⁵ Perforations ~ 5344' - 12159' MD ~ 4552' -4513' TVD	²⁶ DHC, MC R-14051	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		360' MD		350 sx - surface
12-1/4"		9-5/8",36#, J-55		2808' MD		675 sx- surface
8-1/2"		5-1/2",20#, P-110		12281' MD		1840 sx- surface
8-1/2"		2-7/8",6.5#, L-80		5422'		NA

V. Well Test Data

³¹ Date New Oil 1/30/2023	³² Gas Delivery Date 1/17/2023	³³ Test Date 1/30/2023	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure 207	³⁶ Csg. Pressure 825
³⁷ Choke Size 64/64"	³⁸ Oil 40	³⁹ Water 233	⁴⁰ Gas 825		⁴¹ Test Method F

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: <i>Kayla White</i>	OIL CONSERVATION DIVISION Approved by: <i>PATRICIA MARTINEZ</i> Title: <i>PETROLEUM SPECIALIST</i> Approval Date: <i>10/26/2023</i>				
Printed name: Kayla White					
Title: Environmental Engineer					
E-mail Address: kwhite@cdhconsult.com					
Date: 2/16/2023	Phone: 720-768-3575				



ENDURING RESOURCES IV LLC

December 2, 2022

Re: *RODEO UNIT 495H-30-045-38170*

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

District I
635 S. 7th Ave., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

Submit one copy to
Appropriate District Office

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

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38170	² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 321253	⁵ Property Name RODEO UNIT	⁶ Well Number 495H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6680'

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
D	31	23N	8W	1	225	NORTH	895	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	23N	8W		152	SOUTH	831	EAST	SAN JUAN

¹² Dedicated Acres 961.48	Entire Section 31, T23N R8W N/2 - Section 36, T23N R9W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14313
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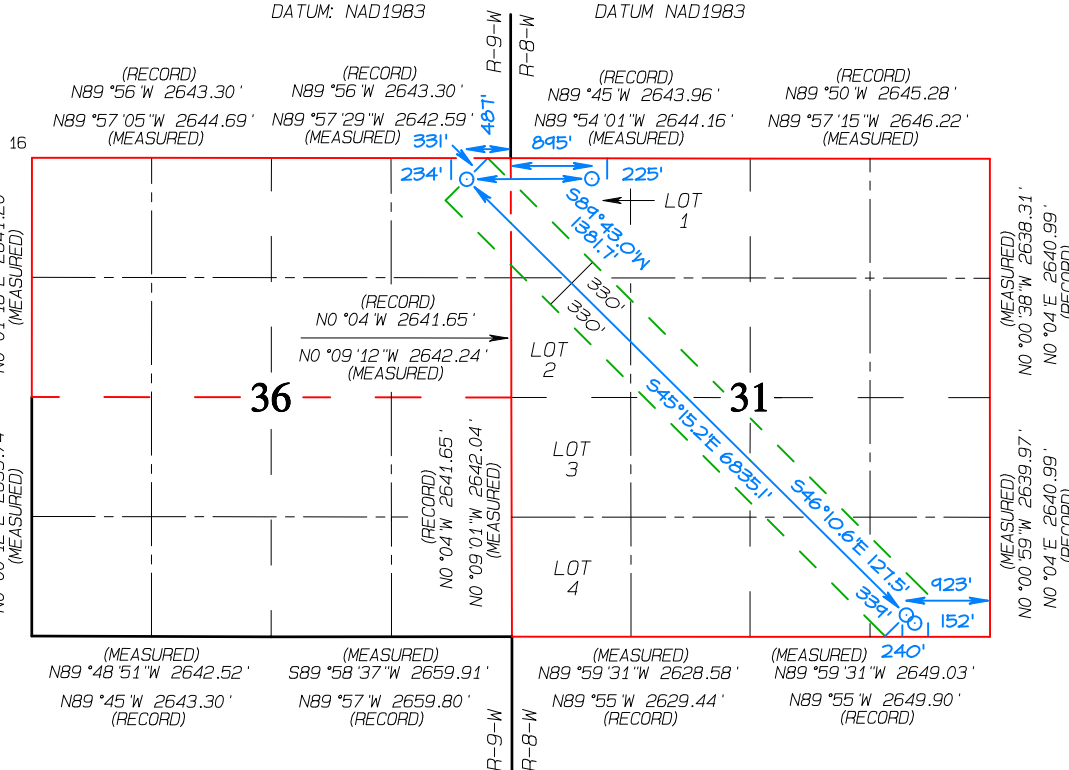
NO ALLOWABLE WILL BE ASSIGNED TO THIS
COMPLETION UNTIL ALL INTERESTS HAVE
BEEN CONSOLIDATED OR A NON-STANDARD
UNIT HAS BEEN APPROVED BY THE DIVISION

FIRST TAKE POINT
234' FNL 487' FEL
SEC. 36, T23N, R9W
LAT: 36.189982°N
LONG: 107.732549°W
DATUM: NAD1927

SURFACE LOCATION
225' FNL 895' FWL
SEC. 31, T23N, R8W
LAT 36.189997°N
LONG 107.727866°W
DATUM NAD1927

LAT: 36.189996°N
LONG: 107.733161°W
DATUM: NAD1983

LAT 36.190011°N
LONG 107.728479°W
DATUM NAD1983



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: 12/1/22

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: DECEMBER 1, 2022
Date of Survey: APRIL 12, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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

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⁴ Property Code 321253	⁵ Property Name RODEO UNIT	⁶ Well Number 495H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6680'

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
D	31	23N	8W	1	225	NORTH	895	WEST	SAN JUAN

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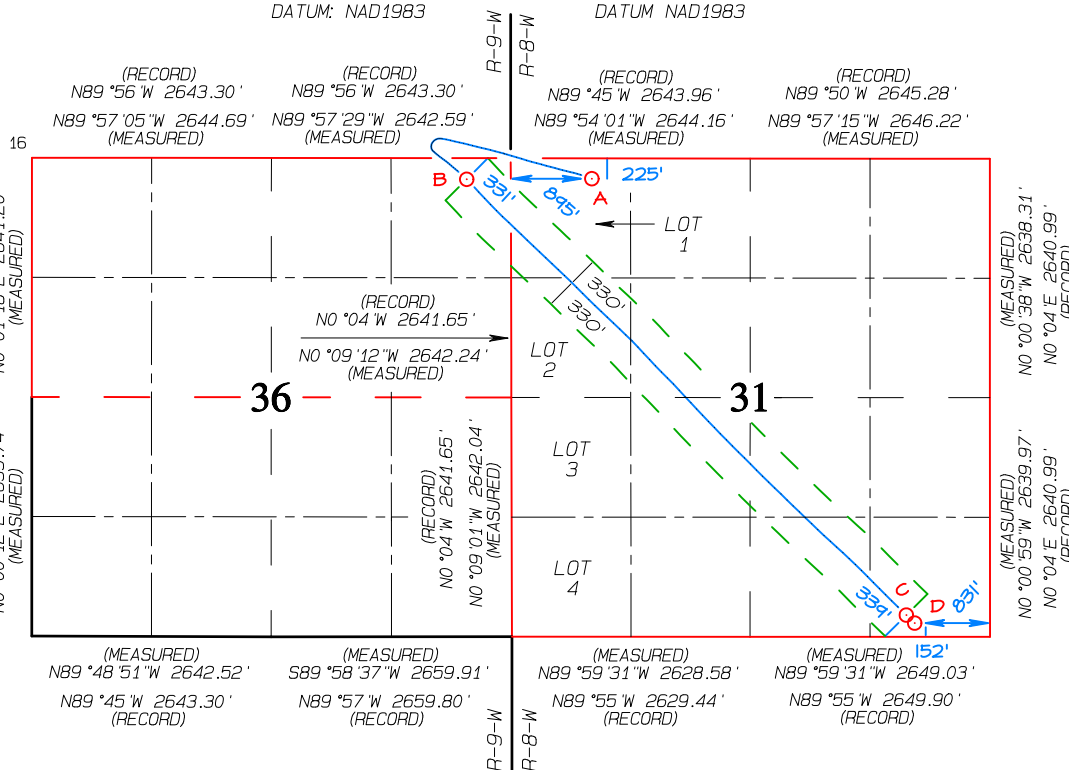
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FIRST TAKE POINT (B)
234' FNL 487' FEL
SEC. 36, T23N, R9W
LAT: 36.189982°N
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DATUM: NAD1927

SURFACE LOCATION (A)
225' FNL 895' FWL
SEC. 31, T23N, R8W
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LONG 107.727866°W
DATUM NAD1927

LAT: 36.189996°N
LONG: 107.733161°W
DATUM: NAD1983

LAT 36.190011°N
LONG 107.728479°W
DATUM NAD1983



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Signature: Heather Huntington Date: 12/1/22
Printed Name: Heather Huntington
E-mail Address: hhuntington@enduringresources.com

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Date of Survey: APRIL 12, 2016

Signature and Seal of Professional Surveyor



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⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6680'

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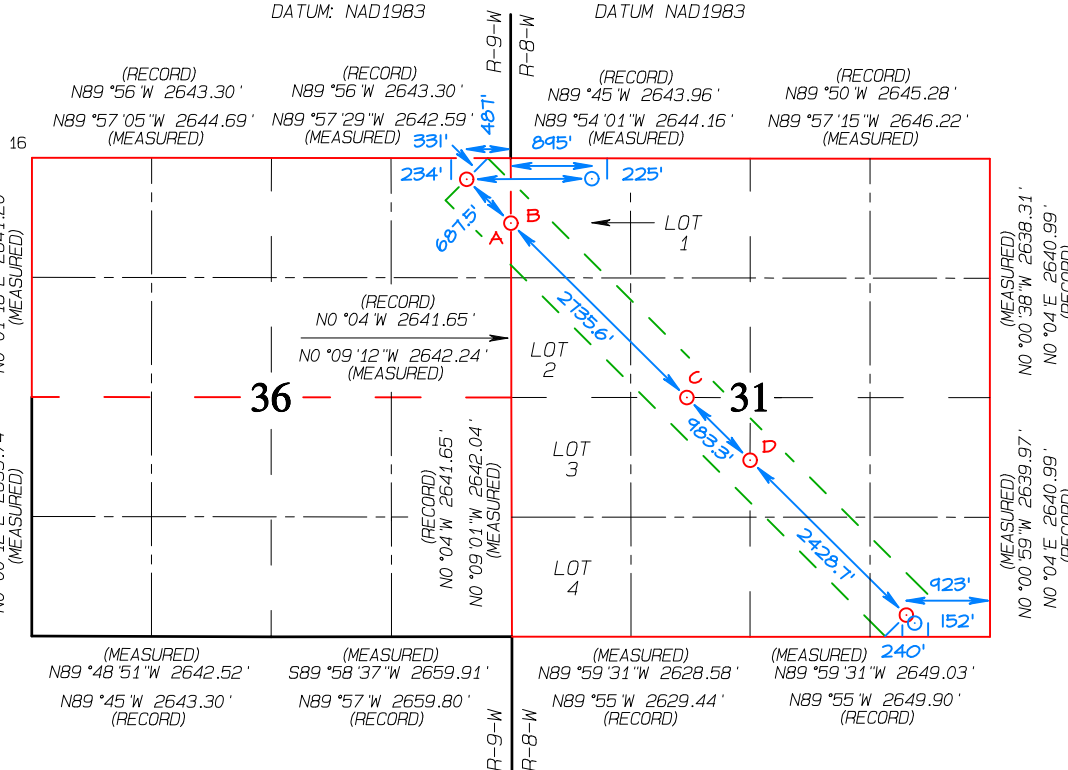
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DATUM NAD1927

LAT: 36.189996°N
LONG: 107.733161°W
DATUM: NAD1983

LAT 36.190011°N
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Heather Huntington 12/1/22
Signature Date
Heather Huntington
Printed Name
hhuntington@enduringresources.com
E-mail Address

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Date Revised: DECEMBER 1, 2022
Date of Survey: APRIL 12, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

(A) 717' FNL 0' FEL
SEC 36, T23N, R9W
LAT 36.188651°N
LONG 107.730896°W
DATUM NAD1927

LAT 36.188665°N
LONG 107.731508°W
DATUM NAD1983

(B) 717' FNL 0' FWL
SEC 31, T23N, R8W
LAT 36.188651°N
LONG 107.730896°W
DATUM NAD1927

LAT 36.188665°N
LONG 107.731508°W
DATUM NAD1983

(C) 2640' FNL 1938' FWL
SEC 31, T23N, R8W
LAT 36.183355°N
LONG 107.724319°W
DATUM NAD1927

LAT 36.183369°N
LONG 107.724931°W
DATUM NAD1983

(D) 1951' FSL 2648' FEL
SEC 31, T23N, R8W
LAT 36.181451°N
LONG 107.721955°W
DATUM NAD1927

LAT 36.181465°N
LONG 107.722567°W
DATUM NAD1983



Well: Rodeo Unit #495H
Site: Rodeo Unit 492 pad (494 & 495)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev1
Rig: Ensign 145

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rode 495 LTP 233 FSL 950 FEL 330 perp r1	4519.00	-4825.89	3446.40	1883652.091	2757478.079	36.176743000	-107.716819000
Rode 495 FTP 234 FNL 478 FEL 330 perp r1	4574.00	-6.55	-1372.99	1888471.424	2752658.705	36.189997000	-107.733132000

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=-6680+13 @ 6693.00ft (Ensign 145)
 Surface location:

Northing: 1888477.971 Easting: 2754031.690 Latitude: 36.190011000 Longitude: -107.728479000



CASING DETAILS

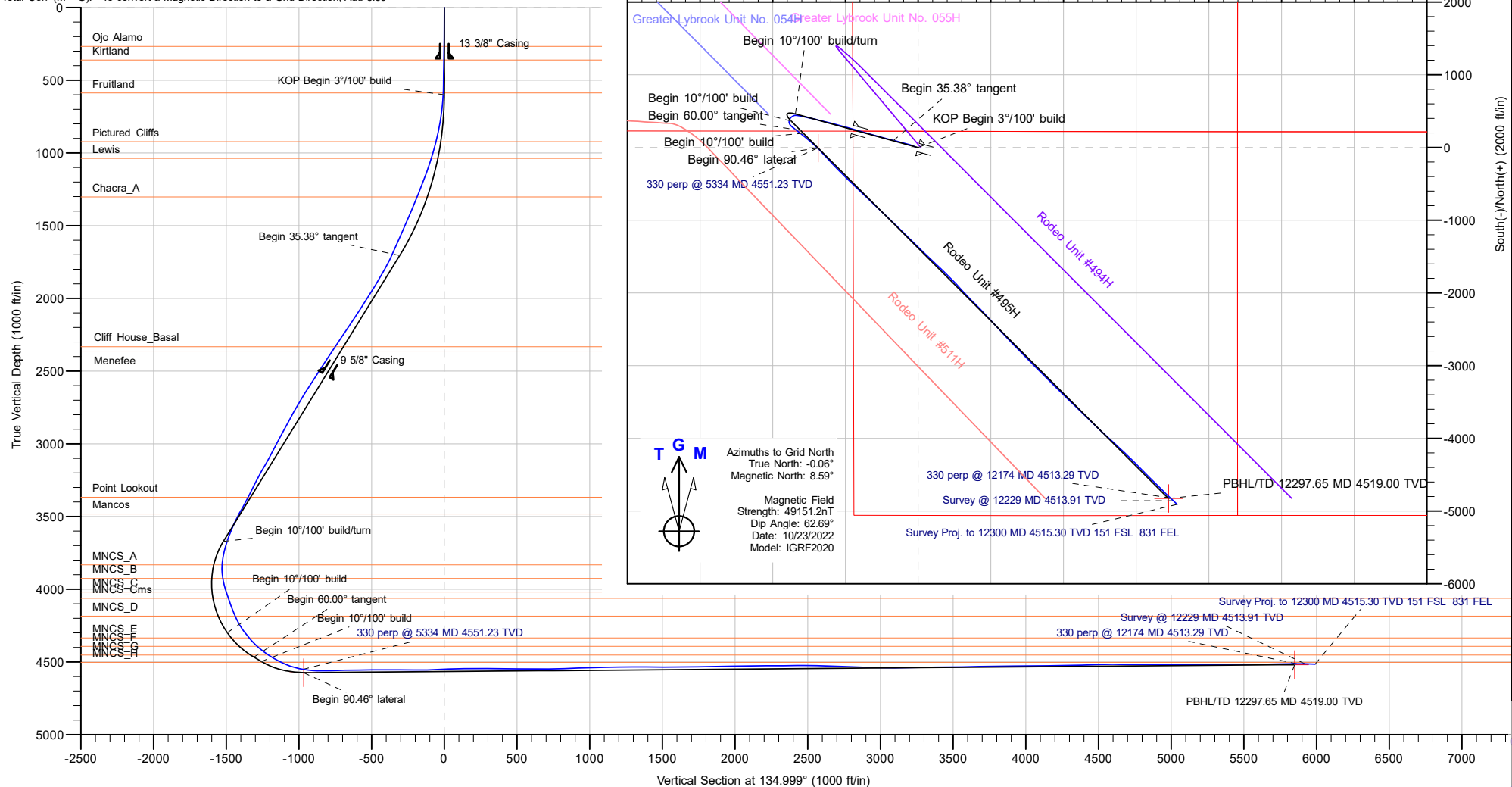
TVD	MD	Name
350.00	350.00	13 3/8" Casing
2528.00	2787.71	9 5/8" Casing

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	600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1779.20	35.38	285.334	1705.69	93.25	-340.06	3.00	285.33	-306.40	Begin 35.38° tangent
4	4190.15	35.38	285.334	3671.51	462.37	-1686.17	0.00	0.00	-1519.26	Begin 10°/100' build/turn
5	4867.20	35.00	135.000	4299.70	365.33	-1744.87	10.00	-162.13	-1492.16	Begin 10°/100' build
6	5117.20	60.00	135.000	4467.26	236.03	-1615.57	10.00	0.00	-1309.30	Begin 60.00° tangent
7	5177.20	60.00	135.000	4497.26	199.29	-1578.83	0.00	0.00	-1257.33	Begin 10°/100' build
8	5481.83	90.46	135.000	4574.00	-6.55	-1372.99	10.00	0.00	-966.23	Begin 90.46° lateral
9	12297.65	90.46	135.000	4519.00	-4825.89	3446.40	0.00	0.00	5849.37	PBHL/TD

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
416.00	1.70	259.740	415.94	-1.10	-6.07	-3.52	MWD surveys
5334.00	79.59	134.854	4551.23	-7.10	-1381.49	-971.86	330 perp @ 5334 MD 4551.23 TVD
12174.00	89.82	133.634	4513.29	-4819.72	3473.99	5864.52	330 perp @ 12174 MD 4513.29 TVD
12229.00	88.88	133.880	4513.91	-4857.76	3513.71	5919.51	Survey @ 12229 MD 4513.91 TVD
12300.00	88.88	133.880	4515.30	-4906.96	3564.88	5990.48	Survey Proj. to 12300 MD 4515.30 TVD 151 FSL 831 F

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





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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 492 pad (494 & 495)		
Site Position:		Northing:	1,888,477.650 usft
From:	Lat/Long	Easting:	2,754,071.821 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.190010000
		Longitude:	-107.728343000

Well	Rodeo Unit #495H, Surf loc: 225 FNL 895 FWL Section 31-T23N-R08W		
Well Position	+N/-S	0.00 ft	Northing: 1,888,477.971 usft
	+E/-W	0.00 ft	Easting: 2,754,031.690 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.06 °	Ground Level:	6,680.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/23/2022	8.65	62.69	49,151.15400237

Design	Surveys Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	134.999	

Survey Program	Date	11/4/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
416.00	2,658.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,751.00	12,229.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
12,300.00	12,300.00	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
416.00	1.70	259.740	415.94	-1.10	-6.07	-3.52	0.41	0.41	0.00
MWD surveys									
446.00	1.62	260.610	445.93	-1.25	-6.93	-4.02	0.28	-0.27	2.90
536.00	1.62	260.230	535.89	-1.67	-9.44	-5.49	0.01	0.00	-0.42
627.00	4.38	284.900	626.76	-1.00	-14.06	-9.24	3.28	3.03	27.11
719.00	7.81	292.200	718.23	2.27	-23.25	-18.05	3.81	3.73	7.93
808.00	11.01	296.050	806.02	8.29	-36.49	-31.66	3.66	3.60	4.33



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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)
898.00	14.09	294.980	893.86	16.69	-54.14	-50.09	3.43	3.42	-1.19
957.00	15.52	293.270	950.90	22.84	-67.90	-64.17	2.53	2.42	-2.90
1,053.00	19.76	288.040	1,042.37	32.95	-95.15	-90.58	4.71	4.42	-5.45
1,148.00	22.25	287.270	1,131.05	43.26	-127.60	-120.82	2.64	2.62	-0.81
1,243.00	23.66	286.270	1,218.52	53.94	-163.07	-153.45	1.54	1.48	-1.05
1,337.00	24.96	283.530	1,304.19	63.87	-200.46	-186.91	1.83	1.38	-2.91
1,431.00	26.96	284.050	1,388.70	73.68	-240.42	-222.11	2.14	2.13	0.55
1,525.00	27.12	284.440	1,472.43	84.20	-281.84	-258.83	0.25	0.17	0.41
1,620.00	26.80	284.840	1,557.10	95.08	-323.51	-296.00	0.39	-0.34	0.42
1,714.00	26.63	284.880	1,641.07	105.92	-364.36	-332.54	0.18	-0.18	0.04
1,808.00	29.18	284.380	1,724.13	117.02	-406.92	-370.49	2.72	2.71	-0.53
1,902.00	32.36	284.840	1,804.89	129.16	-453.45	-411.97	3.39	3.38	0.49
1,997.00	35.26	285.180	1,883.82	142.85	-504.50	-457.75	3.06	3.05	0.36
2,091.00	35.97	285.460	1,960.23	157.32	-557.29	-505.31	0.77	0.76	0.30
2,186.00	35.98	285.350	2,037.11	172.14	-611.09	-553.84	0.07	0.01	-0.12
2,281.00	36.92	285.540	2,113.53	187.17	-665.50	-602.94	1.00	0.99	0.20
2,375.00	37.65	286.250	2,188.32	202.77	-720.26	-652.69	0.90	0.78	0.76
2,470.00	37.35	286.850	2,263.69	219.25	-775.70	-703.54	0.50	-0.32	0.63
2,564.00	37.30	286.490	2,338.44	235.59	-830.30	-753.71	0.24	-0.05	-0.38
2,658.00	36.72	286.270	2,413.50	251.55	-884.58	-803.38	0.63	-0.62	-0.23
2,751.00	36.61	286.290	2,488.10	267.12	-937.89	-852.08	0.12	-0.12	0.02
2,823.00	36.45	286.170	2,545.95	279.10	-979.04	-889.65	0.24	-0.22	-0.17
2,885.00	36.42	284.960	2,595.83	288.98	-1,014.51	-921.72	1.16	-0.05	-1.95
2,980.00	36.28	285.180	2,672.35	303.62	-1,068.88	-970.51	0.20	-0.15	0.23
3,074.00	33.31	284.670	2,749.53	317.44	-1,120.70	-1,016.93	3.17	-3.16	-0.54
3,169.00	32.52	282.870	2,829.28	329.74	-1,170.84	-1,061.07	1.32	-0.83	-1.89
3,263.00	32.13	281.860	2,908.72	340.50	-1,219.93	-1,103.40	0.71	-0.41	-1.07
3,358.00	32.68	284.980	2,988.93	352.32	-1,269.43	-1,146.77	1.85	0.58	3.28
3,452.00	31.06	283.350	3,068.76	364.48	-1,317.55	-1,189.39	1.95	-1.72	-1.73
3,546.00	33.54	285.400	3,148.21	376.98	-1,366.19	-1,232.62	2.88	2.64	2.18
3,640.00	32.95	284.130	3,226.82	390.12	-1,416.01	-1,277.14	0.97	-0.63	-1.35
3,734.00	30.01	281.000	3,306.99	400.85	-1,463.89	-1,318.58	3.58	-3.13	-3.33
3,829.00	32.54	283.310	3,388.18	411.26	-1,512.09	-1,360.03	2.95	2.66	2.43
3,923.00	33.03	283.340	3,467.20	422.99	-1,561.62	-1,403.35	0.52	0.52	0.03
4,018.00	29.27	280.540	3,548.50	433.22	-1,609.66	-1,444.55	4.24	-3.96	-2.95
4,113.00	25.61	277.720	3,632.80	440.23	-1,652.85	-1,480.05	4.09	-3.85	-2.97
4,144.00	23.39	276.390	3,661.00	441.82	-1,665.61	-1,490.19	7.38	-7.16	-4.29
4,176.00	22.13	271.730	3,690.51	442.70	-1,677.95	-1,499.54	6.87	-3.94	-14.56
4,207.00	23.11	264.670	3,719.13	442.32	-1,689.84	-1,507.68	9.31	3.16	-22.77
4,238.00	24.90	255.580	3,747.46	440.12	-1,702.23	-1,514.89	13.24	5.77	-29.32
4,270.00	26.60	247.600	3,776.29	435.71	-1,715.38	-1,521.07	12.06	5.31	-24.94
4,301.00	27.36	240.340	3,803.93	429.54	-1,727.99	-1,525.62	10.90	2.45	-23.42
4,333.00	26.55	232.200	3,832.46	421.52	-1,740.04	-1,528.47	11.80	-2.53	-25.44



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,364.00	25.33	222.620	3,860.35	412.39	-1,750.01	-1,529.06	14.06	-3.94	-30.90
4,396.00	24.82	215.380	3,889.34	401.87	-1,758.53	-1,527.65	9.71	-1.59	-22.63
4,427.00	24.29	205.660	3,917.55	390.82	-1,765.06	-1,524.45	13.13	-1.71	-31.35
4,459.00	24.12	197.830	3,946.74	378.65	-1,769.92	-1,519.29	10.04	-0.53	-24.47
4,490.00	23.89	189.740	3,975.07	366.44	-1,772.92	-1,512.77	10.64	-0.74	-26.10
4,522.00	23.23	178.940	4,004.41	353.73	-1,773.90	-1,504.48	13.63	-2.06	-33.75
4,553.00	22.14	169.790	4,033.02	341.87	-1,772.75	-1,495.28	11.90	-3.52	-29.52
4,585.00	21.30	161.300	4,062.76	330.42	-1,769.82	-1,485.11	10.15	-2.63	-26.53
4,616.00	20.53	150.590	4,091.73	320.35	-1,765.34	-1,474.82	12.56	-2.48	-34.55
4,648.00	19.95	140.640	4,121.76	311.24	-1,759.12	-1,463.98	10.90	-1.81	-31.09
4,679.00	20.88	132.950	4,150.82	303.39	-1,751.72	-1,453.20	9.15	3.00	-24.81
4,711.00	24.08	131.940	4,180.38	295.13	-1,742.69	-1,440.98	10.07	10.00	-3.16
4,742.00	27.52	130.700	4,208.29	286.24	-1,732.55	-1,427.52	11.23	11.10	-4.00
4,774.00	29.95	130.780	4,236.35	276.20	-1,720.90	-1,412.18	7.59	7.59	0.25
4,805.00	32.78	128.770	4,262.81	265.88	-1,708.49	-1,396.11	9.73	9.13	-6.48
4,837.00	35.92	128.620	4,289.23	254.60	-1,694.40	-1,378.17	9.82	9.81	-0.47
4,868.00	38.33	126.380	4,313.95	243.22	-1,679.55	-1,359.62	8.91	7.77	-7.23
4,900.00	40.80	126.260	4,338.61	231.15	-1,663.13	-1,339.48	7.72	7.72	-0.38
4,931.00	43.79	127.350	4,361.54	218.65	-1,646.43	-1,318.83	9.93	9.65	3.52
4,962.00	46.42	126.730	4,383.42	205.42	-1,628.91	-1,297.08	8.60	8.48	-2.00
4,994.00	49.39	128.360	4,404.87	190.95	-1,610.09	-1,273.54	10.02	9.28	5.09
5,026.00	52.64	129.180	4,425.00	175.37	-1,590.70	-1,248.82	10.35	10.16	2.56
5,057.00	55.10	129.450	4,443.28	159.51	-1,571.33	-1,223.90	7.97	7.94	0.87
5,089.00	58.66	130.220	4,460.76	142.34	-1,550.76	-1,197.22	11.31	11.13	2.41
5,120.00	60.39	130.160	4,476.48	125.10	-1,530.35	-1,170.59	5.58	5.58	-0.19
5,152.00	60.82	130.560	4,492.19	107.04	-1,509.10	-1,142.81	1.73	1.34	1.25
5,183.00	64.64	130.390	4,506.39	89.16	-1,488.14	-1,115.34	12.33	12.32	-0.55
5,214.00	68.20	130.840	4,518.79	70.67	-1,466.58	-1,087.02	11.56	11.48	1.45
5,245.00	71.14	131.220	4,529.55	51.59	-1,444.66	-1,058.02	9.55	9.48	1.23
5,277.00	75.05	132.330	4,538.86	31.19	-1,421.83	-1,027.46	12.66	12.22	3.47
5,308.00	77.80	133.520	4,546.13	10.67	-1,399.77	-997.35	9.62	8.87	3.84
5,334.00	79.59	134.854	4,551.23	-7.10	-1,381.49	-971.86	8.54	6.90	5.13
330 perp @ 5334 MD 4551.23 TVD									
5,340.00	80.01	135.160	4,552.29	-11.28	-1,377.31	-965.95	8.54	6.92	5.09
5,371.00	82.99	135.740	4,556.87	-33.12	-1,355.81	-935.30	9.79	9.61	1.87
5,402.00	86.27	136.950	4,559.77	-55.45	-1,334.51	-904.45	11.27	10.58	3.90
5,434.00	89.33	136.620	4,561.00	-78.75	-1,312.61	-872.49	9.62	9.56	-1.03
5,528.00	91.71	137.100	4,560.15	-147.33	-1,248.34	-778.55	2.58	2.53	0.51
5,622.00	91.21	137.400	4,557.75	-216.34	-1,184.56	-684.65	0.62	-0.53	0.32
5,717.00	90.88	135.190	4,556.02	-285.00	-1,118.93	-589.70	2.35	-0.35	-2.33
5,811.00	90.39	136.110	4,554.98	-352.21	-1,053.23	-495.71	1.11	-0.52	0.98
5,906.00	90.30	133.620	4,554.41	-419.22	-985.90	-400.72	2.62	-0.09	-2.62
6,000.00	89.56	133.080	4,554.52	-483.75	-917.55	-306.76	0.97	-0.79	-0.57
6,094.00	88.64	133.720	4,556.00	-548.32	-849.26	-212.81	1.19	-0.98	0.68



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,189.00	92.30	133.930	4,555.22	-614.09	-780.74	-117.85	3.86	3.85	0.22	
6,283.00	92.13	133.900	4,551.59	-679.24	-713.07	-23.94	0.18	-0.18	-0.03	
6,378.00	91.58	133.830	4,548.51	-745.04	-644.61	70.99	0.58	-0.58	-0.07	
6,471.00	90.60	133.070	4,546.74	-808.98	-577.11	163.94	1.33	-1.05	-0.82	
6,565.00	90.24	133.350	4,546.05	-873.34	-508.60	257.89	0.49	-0.38	0.30	
6,660.00	89.91	133.740	4,545.93	-938.79	-439.74	352.86	0.54	-0.35	0.41	
6,755.00	89.23	133.630	4,546.64	-1,004.40	-371.05	447.83	0.73	-0.72	-0.12	
6,849.00	88.52	133.220	4,548.49	-1,069.01	-302.79	541.78	0.87	-0.76	-0.44	
6,943.00	90.01	134.300	4,549.69	-1,134.01	-234.91	635.74	1.96	1.59	1.15	
7,038.00	91.11	135.160	4,548.76	-1,200.86	-167.42	730.74	1.47	1.16	0.91	
7,133.00	92.05	135.180	4,546.15	-1,268.21	-100.47	825.70	0.99	0.99	0.02	
7,227.00	92.01	134.250	4,542.82	-1,334.31	-33.72	919.64	0.99	-0.04	-0.99	
7,321.00	91.46	133.970	4,539.97	-1,399.70	33.74	1,013.58	0.66	-0.59	-0.30	
7,415.00	91.50	133.650	4,537.54	-1,464.76	101.55	1,107.53	0.34	0.04	-0.34	
7,509.00	91.25	132.700	4,535.29	-1,529.05	170.09	1,201.46	1.04	-0.27	-1.01	
7,604.00	89.70	134.280	4,534.50	-1,594.43	239.00	1,296.41	2.33	-1.63	1.66	
7,698.00	89.86	134.060	4,534.86	-1,659.93	306.42	1,390.40	0.29	0.17	-0.23	
7,792.00	89.43	133.270	4,535.44	-1,724.83	374.42	1,484.37	0.96	-0.46	-0.84	
7,887.00	89.57	135.040	4,536.27	-1,791.00	442.57	1,579.36	1.87	0.15	1.86	
7,982.00	90.87	136.640	4,535.91	-1,859.15	508.75	1,674.34	2.17	1.37	1.68	
8,076.00	92.38	137.890	4,533.24	-1,928.16	572.51	1,768.23	2.09	1.61	1.33	
8,171.00	90.34	136.290	4,530.99	-1,997.71	637.17	1,863.13	2.73	-2.15	-1.68	
8,265.00	91.37	137.270	4,529.58	-2,066.20	701.53	1,957.07	1.51	1.10	1.04	
8,360.00	89.47	134.720	4,528.89	-2,134.52	767.52	2,052.04	3.35	-2.00	-2.68	
8,454.00	90.74	135.070	4,528.71	-2,200.87	834.11	2,146.04	1.40	1.35	0.37	
8,548.00	90.25	135.680	4,527.90	-2,267.77	900.14	2,240.03	0.83	-0.52	0.65	
8,642.00	91.99	137.610	4,526.06	-2,336.10	964.65	2,333.97	2.76	1.85	2.05	
8,737.00	89.85	137.190	4,524.54	-2,406.01	1,028.94	2,428.86	2.30	-2.25	-0.44	
8,831.00	88.52	137.380	4,525.88	-2,475.07	1,092.70	2,522.78	1.43	-1.41	0.20	
8,925.00	88.37	136.710	4,528.43	-2,543.84	1,156.73	2,616.68	0.73	-0.16	-0.71	
9,020.00	88.63	136.510	4,530.91	-2,612.85	1,221.97	2,711.61	0.35	0.27	-0.21	
9,114.00	88.31	136.060	4,533.42	-2,680.77	1,286.91	2,805.56	0.59	-0.34	-0.48	
9,209.00	87.25	135.750	4,537.10	-2,748.95	1,352.96	2,900.47	1.16	-1.12	-0.33	
9,304.00	88.90	135.550	4,540.30	-2,816.84	1,419.33	2,995.41	1.75	1.74	-0.21	
9,398.00	91.08	135.600	4,540.31	-2,883.97	1,485.13	3,089.40	2.32	2.32	0.05	
9,492.00	90.21	134.890	4,539.25	-2,950.71	1,551.30	3,183.39	1.19	-0.93	-0.76	
9,587.00	90.95	135.440	4,538.29	-3,018.08	1,618.28	3,278.38	0.97	0.78	0.58	
9,681.00	90.99	134.730	4,536.70	-3,084.63	1,684.64	3,372.37	0.76	0.04	-0.76	
9,776.00	90.72	135.210	4,535.28	-3,151.77	1,751.84	3,467.36	0.58	-0.28	0.51	
9,870.00	90.13	134.840	4,534.59	-3,218.26	1,818.28	3,561.35	0.74	-0.63	-0.39	
9,964.00	91.72	134.480	4,533.07	-3,284.32	1,885.13	3,655.34	1.73	1.69	-0.38	
10,058.00	91.27	134.540	4,530.62	-3,350.20	1,952.14	3,749.30	0.48	-0.48	0.06	
10,152.00	90.56	134.210	4,529.11	-3,415.93	2,019.32	3,843.28	0.83	-0.76	-0.35	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,247.00	90.15	134.180	4,528.53	-3,482.15	2,087.43	3,938.27	0.43	-0.43	-0.03
10,341.00	91.19	134.220	4,527.43	-3,547.68	2,154.82	4,032.26	1.11	1.11	0.04
10,436.00	90.52	134.210	4,526.01	-3,613.92	2,222.90	4,127.24	0.71	-0.71	-0.01
10,530.00	90.03	133.710	4,525.56	-3,679.17	2,290.56	4,221.22	0.74	-0.52	-0.53
10,624.00	91.81	134.400	4,524.05	-3,744.52	2,358.10	4,315.19	2.03	1.89	0.73
10,719.00	91.62	133.590	4,521.21	-3,810.48	2,426.41	4,410.13	0.88	-0.20	-0.85
10,813.00	92.01	134.010	4,518.23	-3,875.50	2,494.23	4,504.06	0.61	0.41	0.45
10,908.00	89.48	132.410	4,516.99	-3,940.54	2,563.45	4,599.00	3.15	-2.66	-1.68
11,002.00	89.09	131.940	4,518.17	-4,003.64	2,633.11	4,692.88	0.65	-0.41	-0.50
11,097.00	89.82	132.810	4,519.07	-4,067.67	2,703.29	4,787.77	1.20	0.77	0.92
11,190.00	90.50	132.260	4,518.81	-4,130.54	2,771.81	4,880.68	0.94	0.73	-0.59
11,285.00	90.39	133.300	4,518.07	-4,195.06	2,841.54	4,975.61	1.10	-0.12	1.09
11,379.00	90.15	134.350	4,517.63	-4,260.15	2,909.35	5,069.59	1.15	-0.26	1.12
11,473.00	90.03	135.050	4,517.48	-4,326.26	2,976.17	5,163.58	0.76	-0.13	0.74
11,568.00	90.01	135.380	4,517.45	-4,393.69	3,043.09	5,258.58	0.35	-0.02	0.35
11,662.00	89.79	135.190	4,517.61	-4,460.49	3,109.23	5,352.58	0.31	-0.23	-0.20
11,757.00	90.34	134.990	4,517.50	-4,527.77	3,176.30	5,447.58	0.62	0.58	-0.21
11,851.00	90.45	134.700	4,516.86	-4,594.06	3,242.94	5,541.58	0.33	0.12	-0.31
11,947.00	90.51	134.660	4,516.05	-4,661.56	3,311.20	5,637.57	0.08	0.06	-0.04
12,041.00	91.13	134.550	4,514.71	-4,727.56	3,378.12	5,731.56	0.67	0.66	-0.12
12,135.00	90.48	133.460	4,513.39	-4,792.85	3,445.72	5,825.54	1.35	-0.69	-1.16
12,174.00	89.82	133.634	4,513.29	-4,819.72	3,473.99	5,864.52	1.76	-1.70	0.45
330 perp @ 12174 MD 4513.29 TVD									
12,229.00	88.88	133.880	4,513.91	-4,857.76	3,513.71	5,919.51	1.76	-1.70	0.45
Survey @ 12229 MD 4513.91 TVD									
12,300.00	88.88	133.880	4,515.30	-4,906.96	3,564.88	5,990.48	0.00	0.00	0.00
Survey Proj. to 12300 MD 4515.30 TVD 151 FSL 831 FEL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
416.00	415.94	-1.10	-6.07	MWD surveys
5,334.00	4,551.23	-7.10	-1,381.49	330 perp @ 5334 MD 4551.23 TVD
12,174.00	4,513.29	-4,819.72	3,473.99	330 perp @ 12174 MD 4513.29 TVD
12,229.00	4,513.91	-4,857.76	3,513.71	Survey @ 12229 MD 4513.91 TVD
12,300.00	4,515.30	-4,906.96	3,564.88	Survey Proj. to 12300 MD 4515.30 TVD 151 FSL 831 FEL

Checked By: _____	Approved By: _____	Date: _____
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Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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 492 pad (494 & 495)		
Site Position:		Northing:	1,888,477.650 usft
From:	Lat/Long	Easting:	2,754,071.821 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.190010000
		Longitude:	-107.728343000
		Grid Convergence:	0.06 °

Well	Rodeo Unit #495H, Surf loc: 225 FNL 895 FWL Section 31-T23N-R08W		
Well Position	+N/-S	0.00 ft	Northing: 1,888,477.971 usft
	+E/-W	0.00 ft	Easting: 2,754,031.690 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.190011000
		Longitude:	-107.728479000
		Ground Level:	6,680.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/23/2022	8.65	62.69	49,151.15400237

Design	Surveys Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	134.999	

Survey Program	Date	11/4/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
416.00	2,658.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,751.00	12,229.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
12,300.00	12,300.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
416.00	1.70	259.740	415.94	-1.10	-6.07	1,888,476.872	2,754,025.618	36.190007998	-107.728499583
MWD surveys									
446.00	1.62	260.610	445.93	-1.25	-6.93	1,888,476.723	2,754,024.762	36.190007593	-107.728502485
536.00	1.62	260.230	535.89	-1.67	-9.44	1,888,476.300	2,754,022.253	36.190006437	-107.728510989
627.00	4.38	284.900	626.76	-1.00	-14.06	1,888,476.975	2,754,017.626	36.190008306	-107.728526666
719.00	7.81	292.200	718.23	2.27	-23.25	1,888,480.242	2,754,008.441	36.190017306	-107.728557783
808.00	11.01	296.050	806.02	8.29	-36.49	1,888,486.260	2,753,995.203	36.190033879	-107.728602622
898.00	14.09	294.980	893.86	16.69	-54.14	1,888,494.663	2,753,977.548	36.190057014	-107.728662425
957.00	15.52	293.270	950.90	22.84	-67.90	1,888,500.814	2,753,963.786	36.190073954	-107.728709041



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,053.00	19.76	288.040	1,042.37	32.95	-95.15	1,888,510.919	2,753,936.543	36.190101793	-107.728801330
1,148.00	22.25	287.270	1,131.05	43.26	-127.60	1,888,521.233	2,753,904.093	36.190130223	-107.728911262
1,243.00	23.66	286.270	1,218.52	53.94	-163.07	1,888,531.914	2,753,868.618	36.190159669	-107.729031448
1,337.00	24.96	283.530	1,304.19	63.87	-200.46	1,888,541.839	2,753,831.226	36.190187045	-107.729158131
1,431.00	26.96	284.050	1,388.70	73.68	-240.42	1,888,551.653	2,753,791.268	36.190214123	-107.729293511
1,525.00	27.12	284.440	1,472.43	84.20	-281.84	1,888,562.169	2,753,749.849	36.190243132	-107.729433840
1,620.00	26.80	284.840	1,557.10	95.08	-323.51	1,888,573.054	2,753,708.177	36.190273157	-107.729575024
1,714.00	26.63	284.880	1,641.07	105.92	-364.36	1,888,583.891	2,753,667.333	36.190303048	-107.729713405
1,808.00	29.18	284.380	1,724.13	117.02	-406.92	1,888,594.994	2,753,624.768	36.190333673	-107.729857614
1,902.00	32.36	284.840	1,804.89	129.16	-453.45	1,888,607.131	2,753,578.242	36.190367151	-107.730015246
1,997.00	35.26	285.180	1,883.82	142.85	-504.50	1,888,620.826	2,753,527.191	36.190404921	-107.730188207
2,091.00	35.97	285.460	1,960.23	157.32	-557.29	1,888,635.289	2,753,474.398	36.190444808	-107.730367070
2,186.00	35.98	285.350	2,037.11	172.14	-611.09	1,888,650.114	2,753,420.597	36.190485689	-107.730549347
2,281.00	36.92	285.540	2,113.53	187.17	-665.50	1,888,665.145	2,753,366.195	36.190527141	-107.730733660
2,375.00	37.65	286.250	2,188.32	202.77	-720.26	1,888,680.743	2,753,311.431	36.190570149	-107.730919198
2,470.00	37.35	286.850	2,263.69	219.25	-775.70	1,888,697.216	2,753,255.995	36.190615561	-107.731107010
2,564.00	37.30	286.490	2,338.44	235.59	-830.30	1,888,713.565	2,753,201.395	36.190660633	-107.731291989
2,658.00	36.72	286.270	2,413.50	251.55	-884.58	1,888,729.523	2,753,147.108	36.190704627	-107.731475908
2,751.00	36.61	286.290	2,488.10	267.12	-937.89	1,888,745.091	2,753,093.802	36.190747547	-107.731656509
2,823.00	36.45	286.170	2,545.95	279.10	-979.04	1,888,757.069	2,753,052.652	36.190780571	-107.731795921
2,885.00	36.42	284.960	2,595.83	288.98	-1,014.51	1,888,766.949	2,753,017.182	36.190807815	-107.731916094
2,980.00	36.28	285.180	2,672.35	303.62	-1,068.88	1,888,781.589	2,752,962.810	36.190848188	-107.732100306
3,074.00	33.31	284.670	2,749.53	317.44	-1,120.70	1,888,795.412	2,752,910.988	36.190886308	-107.732275882
3,169.00	32.52	282.870	2,829.28	329.74	-1,170.84	1,888,807.706	2,752,860.857	36.190920225	-107.732445733
3,263.00	32.13	281.860	2,908.72	340.50	-1,219.93	1,888,818.471	2,752,811.761	36.190949939	-107.732612080
3,358.00	32.68	284.980	2,988.93	352.32	-1,269.43	1,888,830.294	2,752,762.259	36.190982557	-107.732779803
3,452.00	31.06	283.350	3,068.76	364.48	-1,317.55	1,888,842.453	2,752,714.146	36.191016098	-107.732942814
3,546.00	33.54	285.400	3,148.21	376.98	-1,366.19	1,888,854.951	2,752,665.507	36.191050568	-107.733107606
3,640.00	32.95	284.130	3,226.82	390.12	-1,416.01	1,888,868.088	2,752,615.680	36.191086798	-107.733276424
3,734.00	30.01	281.000	3,306.99	400.85	-1,463.89	1,888,878.817	2,752,567.801	36.191116407	-107.733438649
3,829.00	32.54	283.310	3,388.18	411.26	-1,512.09	1,888,889.234	2,752,519.607	36.191145160	-107.733601941
3,923.00	33.03	283.340	3,467.20	422.99	-1,561.62	1,888,900.965	2,752,470.078	36.191177527	-107.733769754
4,018.00	29.27	280.540	3,548.50	433.22	-1,609.66	1,888,911.191	2,752,422.034	36.191205755	-107.733932542
4,113.00	25.61	277.720	3,632.80	440.23	-1,652.85	1,888,918.200	2,752,378.840	36.191225130	-107.734078902
4,144.00	23.39	276.390	3,661.00	441.82	-1,665.61	1,888,919.785	2,752,366.084	36.191229520	-107.734122126
4,176.00	22.13	271.730	3,690.51	442.70	-1,677.95	1,888,920.674	2,752,353.745	36.191231997	-107.734163938
4,207.00	23.11	264.670	3,719.13	442.32	-1,689.84	1,888,920.285	2,752,341.849	36.191230962	-107.734204255
4,238.00	24.90	255.580	3,747.46	440.12	-1,702.23	1,888,918.094	2,752,329.466	36.191224977	-107.734246230
4,270.00	26.60	247.600	3,776.29	435.71	-1,715.38	1,888,913.685	2,752,316.313	36.191212901	-107.734290820
4,301.00	27.36	240.340	3,803.93	429.54	-1,727.99	1,888,907.513	2,752,303.703	36.191195983	-107.734333578
4,333.00	26.55	232.200	3,832.46	421.52	-1,740.04	1,888,899.488	2,752,291.658	36.191173971	-107.734374426
4,364.00	25.33	222.620	3,860.35	412.39	-1,750.01	1,888,890.358	2,752,281.688	36.191148917	-107.734408244
4,396.00	24.82	215.380	3,889.34	401.87	-1,758.53	1,888,879.842	2,752,273.162	36.191120053	-107.734437175
4,427.00	24.29	205.660	3,917.55	390.82	-1,765.06	1,888,868.785	2,752,266.631	36.191089697	-107.734459347
4,459.00	24.12	197.830	3,946.74	378.65	-1,769.92	1,888,856.625	2,752,261.778	36.191056306	-107.734475837
4,490.00	23.89	189.740	3,975.07	366.44	-1,772.92	1,888,844.405	2,752,258.776	36.191022745	-107.734486053
4,522.00	23.23	178.940	4,004.41	353.73	-1,773.90	1,888,831.703	2,752,257.796	36.190987853	-107.734489418
4,553.00	22.14	169.790	4,033.02	341.87	-1,772.75	1,888,819.838	2,752,258.945	36.190955254	-107.734485565
4,585.00	21.30	161.300	4,062.76	330.42	-1,769.82	1,888,808.395	2,752,261.878	36.190923812	-107.734475665
4,616.00	20.53	150.590	4,091.73	320.35	-1,765.34	1,888,798.323	2,752,266.354	36.190896129	-107.734460530
4,648.00	19.95	140.640	4,121.76	311.24	-1,759.12	1,888,789.211	2,752,272.573	36.190871081	-107.734439484
4,679.00	20.88	132.950	4,150.82	303.39	-1,751.72	1,888,781.356	2,752,279.972	36.190849483	-107.734414436
4,711.00	24.08	131.940	4,180.38	295.13	-1,742.69	1,888,773.105	2,752,289.005	36.190826792	-107.734383854
4,742.00	27.52	130.700	4,208.29	286.24	-1,732.55	1,888,764.206	2,752,299.142	36.190802315	-107.734349530
4,774.00	29.95	130.780	4,236.35	276.20	-1,720.90	1,888,754.166	2,752,310.797	36.190774702	-107.734310066



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,805.00	32.78	128.770	4,262.81	265.88	-1,708.49	1,888,743.854	2,752,323.202	36.190746340	-107.734268060
4,837.00	35.92	128.620	4,289.23	254.60	-1,694.40	1,888,732.568	2,752,337.293	36.190715297	-107.734220344
4,868.00	38.33	126.380	4,313.95	243.22	-1,679.55	1,888,721.189	2,752,352.140	36.190683994	-107.734170069
4,900.00	40.80	126.260	4,338.61	231.15	-1,663.13	1,888,709.118	2,752,368.562	36.190650788	-107.734114458
4,931.00	43.79	127.350	4,361.54	218.65	-1,646.43	1,888,696.617	2,752,385.259	36.190616400	-107.734057914
4,962.00	46.42	126.730	4,383.42	205.42	-1,628.91	1,888,683.392	2,752,402.788	36.190580021	-107.733998554
4,994.00	49.39	128.360	4,404.87	190.95	-1,610.09	1,888,668.919	2,752,421.607	36.190540208	-107.733934828
5,026.00	52.64	129.180	4,425.00	175.37	-1,590.70	1,888,653.342	2,752,440.995	36.190497362	-107.733869177
5,057.00	55.10	129.450	4,443.28	159.51	-1,571.33	1,888,637.479	2,752,460.364	36.190453730	-107.733803591
5,089.00	58.66	130.220	4,460.76	142.34	-1,550.76	1,888,620.311	2,752,480.938	36.190406510	-107.733733925
5,120.00	60.39	130.160	4,476.48	125.10	-1,530.35	1,888,603.070	2,752,501.347	36.190359090	-107.733664820
5,152.00	60.82	130.560	4,492.19	107.04	-1,509.10	1,888,585.015	2,752,522.591	36.190309432	-107.733592887
5,183.00	64.64	130.390	4,506.39	89.16	-1,488.14	1,888,567.133	2,752,543.548	36.190260248	-107.733521927
5,214.00	68.20	130.840	4,518.79	70.67	-1,466.58	1,888,548.640	2,752,565.111	36.190209384	-107.733448916
5,245.00	71.14	131.220	4,529.55	51.59	-1,444.66	1,888,529.559	2,752,587.037	36.190156905	-107.733374678
5,277.00	75.05	132.330	4,538.86	31.19	-1,421.83	1,888,509.164	2,752,609.863	36.190100812	-107.733297392
5,308.00	77.80	133.520	4,546.13	10.67	-1,399.77	1,888,488.642	2,752,631.925	36.190044376	-107.733222698
5,334.00	79.59	134.854	4,551.23	-7.10	-1,381.49	1,888,470.872	2,752,650.205	36.189995507	-107.733160809
330 perp @ 5334 MD 4551.23 TVD									
5,340.00	80.01	135.160	4,552.29	-11.28	-1,377.31	1,888,466.696	2,752,654.380	36.189984023	-107.733146675
5,371.00	82.99	135.740	4,556.87	-33.12	-1,355.81	1,888,444.849	2,752,675.886	36.189923946	-107.733073870
5,402.00	86.27	136.950	4,559.77	-55.45	-1,334.51	1,888,422.522	2,752,697.187	36.189862550	-107.733001757
5,434.00	89.33	136.620	4,561.00	-78.75	-1,312.61	1,888,399.220	2,752,719.080	36.189798477	-107.732927645
5,528.00	91.71	137.100	4,560.15	-147.33	-1,248.34	1,888,330.638	2,752,783.348	36.189609892	-107.732710086
5,622.00	91.21	137.400	4,557.75	-216.34	-1,184.56	1,888,261.635	2,752,847.134	36.189420150	-107.732494162
5,717.00	90.88	135.190	4,556.02	-285.00	-1,118.93	1,888,192.974	2,752,912.759	36.189231346	-107.732272007
5,811.00	90.39	136.110	4,554.98	-352.21	-1,053.23	1,888,125.762	2,752,978.464	36.189046519	-107.732049577
5,906.00	90.30	133.620	4,554.41	-419.22	-985.90	1,888,058.752	2,753,045.790	36.188862242	-107.731821651
6,000.00	89.56	133.080	4,554.52	-483.75	-917.55	1,887,994.226	2,753,114.144	36.188684786	-107.731590237
6,094.00	88.64	133.720	4,556.00	-548.32	-849.26	1,887,929.649	2,753,182.432	36.188507189	-107.731359045
6,189.00	92.30	133.930	4,555.22	-614.09	-780.74	1,887,863.879	2,753,250.957	36.188326315	-107.731127059
6,283.00	92.13	133.900	4,551.59	-679.24	-713.07	1,887,798.731	2,753,318.621	36.188147148	-107.730897987
6,378.00	91.58	133.830	4,548.51	-745.04	-644.61	1,887,732.934	2,753,387.077	36.187966200	-107.730666233
6,471.00	90.60	133.070	4,546.74	-808.98	-577.11	1,887,668.989	2,753,454.579	36.187790340	-107.730437708
6,565.00	90.24	133.350	4,546.05	-873.34	-508.60	1,887,604.632	2,753,523.089	36.187613344	-107.730205770
6,660.00	89.91	133.740	4,545.93	-938.79	-439.74	1,887,539.184	2,753,591.947	36.187433352	-107.729972655
6,755.00	89.23	133.630	4,546.64	-1,004.40	-371.05	1,887,473.571	2,753,660.644	36.187252903	-107.729740091
6,849.00	88.52	133.220	4,548.49	-1,069.01	-302.79	1,887,408.968	2,753,728.900	36.187075232	-107.729509017
6,943.00	90.01	134.300	4,549.69	-1,134.01	-234.91	1,887,343.962	2,753,796.782	36.186896454	-107.729279213
7,038.00	91.11	135.160	4,548.76	-1,200.86	-167.42	1,887,277.109	2,753,864.268	36.186712604	-107.729050759
7,133.00	92.05	135.180	4,546.15	-1,268.21	-100.47	1,887,209.762	2,753,931.217	36.186527395	-107.728824127
7,227.00	92.01	134.250	4,542.82	-1,334.31	-33.72	1,887,143.667	2,753,997.972	36.186345629	-107.728598149
7,321.00	91.46	133.970	4,539.97	-1,399.70	33.74	1,887,078.270	2,754,065.433	36.186165776	-107.728369777
7,415.00	91.50	133.650	4,537.54	-1,464.76	101.55	1,887,013.219	2,754,133.244	36.185986872	-107.728140218
7,509.00	91.25	132.700	4,535.29	-1,529.05	170.09	1,886,948.921	2,754,201.775	36.185810034	-107.727908221
7,604.00	89.70	134.280	4,534.50	-1,594.43	239.00	1,886,883.545	2,754,270.690	36.185630235	-107.727674925
7,698.00	89.86	134.060	4,534.86	-1,659.93	306.42	1,886,818.048	2,754,338.113	36.185450104	-107.727446686
7,792.00	89.43	133.270	4,535.44	-1,724.83	374.42	1,886,753.148	2,754,406.110	36.185271615	-107.727216503
7,887.00	89.57	135.040	4,536.27	-1,791.00	442.57	1,886,686.977	2,754,474.263	36.185089629	-107.726985796
7,982.00	90.87	136.640	4,535.91	-1,859.15	508.75	1,886,618.828	2,754,540.442	36.184902219	-107.726761786
8,076.00	92.38	137.890	4,533.24	-1,928.16	572.51	1,886,549.817	2,754,604.202	36.184712444	-107.726545976
8,171.00	90.34	136.290	4,530.99	-1,997.71	637.17	1,886,480.263	2,754,668.859	36.184521176	-107.726327131
8,265.00	91.37	137.270	4,529.58	-2,066.20	701.53	1,886,411.772	2,754,733.222	36.184332829	-107.726109281
8,360.00	89.47	134.720	4,528.89	-2,134.52	767.52	1,886,343.451	2,754,799.210	36.184144944	-107.725885923
8,454.00	90.74	135.070	4,528.71	-2,200.87	834.11	1,886,277.107	2,754,865.798	36.183962487	-107.725660526



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,548.00	90.25	135.680	4,527.90	-2,267.77	900.14	1,886,210.208	2,754,931.827	36.183778508	-107.725437028
8,642.00	91.99	137.610	4,526.06	-2,336.10	964.65	1,886,141.879	2,754,996.342	36.183590603	-107.725218665
8,737.00	89.85	137.190	4,524.54	-2,406.01	1,028.94	1,886,071.963	2,755,060.633	36.183398340	-107.725001069
8,831.00	88.52	137.380	4,525.88	-2,475.07	1,092.70	1,886,002.906	2,755,124.390	36.183208438	-107.724785279
8,925.00	88.37	136.710	4,528.43	-2,543.84	1,156.73	1,885,934.135	2,755,188.419	36.183019318	-107.724568565
9,020.00	88.63	136.510	4,530.91	-2,612.85	1,221.97	1,885,865.123	2,755,253.658	36.182829534	-107.724347757
9,114.00	88.31	136.060	4,533.42	-2,680.77	1,286.91	1,885,797.205	2,755,318.595	36.182642757	-107.724127967
9,209.00	87.25	135.750	4,537.10	-2,748.95	1,352.96	1,885,729.030	2,755,384.650	36.182455267	-107.723904392
9,304.00	88.90	135.550	4,540.30	-2,816.84	1,419.33	1,885,661.138	2,755,451.019	36.182268555	-107.723679753
9,398.00	91.08	135.600	4,540.31	-2,883.97	1,485.13	1,885,594.010	2,755,516.813	36.182083944	-107.723457061
9,492.00	90.21	134.890	4,539.25	-2,950.71	1,551.30	1,885,527.264	2,755,582.990	36.181900379	-107.723233067
9,587.00	90.95	135.440	4,538.29	-3,018.08	1,618.28	1,885,459.900	2,755,649.968	36.181715114	-107.723006368
9,681.00	90.99	134.730	4,536.70	-3,084.63	1,684.64	1,885,393.344	2,755,716.327	36.181532069	-107.722781760
9,776.00	90.72	135.210	4,535.28	-3,151.77	1,751.84	1,885,326.212	2,755,783.529	36.181347440	-107.722554299
9,870.00	90.13	134.840	4,534.59	-3,218.26	1,818.28	1,885,259.717	2,755,849.966	36.181164563	-107.722329431
9,964.00	91.72	134.480	4,533.07	-3,284.32	1,885.13	1,885,193.655	2,755,916.816	36.180982875	-107.722103161
10,058.00	91.27	134.540	4,530.62	-3,350.20	1,952.14	1,885,127.781	2,755,983.827	36.180801700	-107.721876347
10,152.00	90.56	134.210	4,529.11	-3,415.93	2,019.32	1,885,062.051	2,756,051.007	36.180620920	-107.721648961
10,247.00	90.15	134.180	4,528.53	-3,482.15	2,087.43	1,884,995.828	2,756,119.118	36.180438782	-107.721418423
10,341.00	91.19	134.220	4,527.43	-3,547.68	2,154.82	1,884,930.300	2,756,186.501	36.180258556	-107.721190347
10,436.00	90.52	134.210	4,526.01	-3,613.92	2,222.90	1,884,864.059	2,756,254.583	36.180076370	-107.720959912
10,530.00	90.03	133.710	4,525.56	-3,679.17	2,290.56	1,884,798.810	2,756,322.245	36.179896908	-107.720730894
10,624.00	91.81	134.400	4,524.05	-3,744.52	2,358.10	1,884,733.459	2,756,389.788	36.179717166	-107.720502280
10,719.00	91.62	133.590	4,521.21	-3,810.48	2,426.41	1,884,667.502	2,756,458.100	36.179535758	-107.720271066
10,813.00	92.01	134.010	4,518.23	-3,875.50	2,494.23	1,884,602.474	2,756,525.911	36.179356901	-107.720041545
10,908.00	89.48	132.410	4,516.99	-3,940.54	2,563.45	1,884,537.443	2,756,595.138	36.179178032	-107.719807228
11,002.00	89.09	131.940	4,518.17	-4,003.64	2,633.11	1,884,474.337	2,756,664.795	36.179004449	-107.719571446
11,097.00	89.82	132.810	4,519.07	-4,067.67	2,703.29	1,884,410.313	2,756,734.972	36.178828342	-107.719333909
11,190.00	90.50	132.260	4,518.81	-4,130.54	2,771.81	1,884,347.442	2,756,803.499	36.178655408	-107.719101957
11,285.00	90.39	133.300	4,518.07	-4,195.06	2,841.54	1,884,282.922	2,756,873.223	36.178477940	-107.718865960
11,379.00	90.15	134.350	4,517.63	-4,260.15	2,909.35	1,884,217.833	2,756,941.038	36.178298913	-107.718636432
11,473.00	90.03	135.050	4,517.48	-4,326.26	2,976.17	1,884,151.714	2,757,007.852	36.178117061	-107.718410301
11,568.00	90.01	135.380	4,517.45	-4,393.69	3,043.09	1,884,084.288	2,757,074.775	36.177931616	-107.718183809
11,662.00	89.79	135.190	4,517.61	-4,460.49	3,109.23	1,884,017.490	2,757,140.911	36.177747900	-107.717959980
11,757.00	90.34	134.990	4,517.50	-4,527.77	3,176.30	1,883,950.210	2,757,207.980	36.177562855	-107.717732994
11,851.00	90.45	134.700	4,516.86	-4,594.06	3,242.94	1,883,883.924	2,757,274.626	36.177380541	-107.717507438
11,947.00	90.51	134.660	4,516.05	-4,661.56	3,311.20	1,883,816.424	2,757,342.884	36.177194889	-107.717276427
12,041.00	91.13	134.550	4,514.71	-4,727.56	3,378.12	1,883,750.423	2,757,409.801	36.177013357	-107.717049952
12,135.00	90.48	133.460	4,513.39	-4,792.85	3,445.72	1,883,685.127	2,757,477.405	36.176833759	-107.716821149
12,174.00	89.82	133.634	4,513.29	-4,819.72	3,473.99	1,883,658.259	2,757,505.672	36.176759855	-107.716725478
330 perp @ 12174 MD 4513.29 TVD									
12,229.00	88.88	133.880	4,513.91	-4,857.76	3,513.71	1,883,620.223	2,757,545.395	36.176655237	-107.716591039
Survey @ 12229 MD 4513.91 TVD									
12,300.00	88.88	133.880	4,515.30	-4,906.96	3,564.88	1,883,571.019	2,757,596.561	36.176519898	-107.716417869
Survey Proj. to 12300 MD 4515.30 TVD 151 FSL 831 FEL									



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Site:	Rodeo Unit 492 pad (494 & 495)	MD Reference:	RKB=-6680+13 @ 6693.00ft (Ensign 145)
Well:	Rodeo Unit #495H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
416.00	415.94	-1.10	-6.07	MWD surveys
5,334.00	4,551.23	-7.10	-1,381.49	330 perp @ 5334 MD 4551.23 TVD
12,174.00	4,513.29	-4,819.72	3,473.99	330 perp @ 12174 MD 4513.29 TVD
12,229.00	4,513.91	-4,857.76	3,513.71	Survey @ 12229 MD 4513.91 TVD
12,300.00	4,515.30	-4,906.96	3,564.88	Survey Proj. to 12300 MD 4515.30 TVD 151 FSL 831 FEL

Checked By: _____ Approved By: _____ Date: _____

WELL NAME: **RODEO UNIT 495H**

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

API Number: 30-045-31870

State: New Mexico

County: San Juan

Surface Elev.: 6,680 ft ASL (GL) 6,693 ft ASL (KB)

Surface Location: 31-23N-08W Sec-Twn- Rng 225 ft FNL 895 ft FWL

BH Location: 31-23N-08W Sec-Twn- Rng 233 ft FSL 950 ft FEL

Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**
South on US Hwy 550 for 38.7 miles to MM 112.7; Right (South) on CR 7900 for 2.3 miles to fork; Right (West) on 7940 for 2.6 miles, Right (North-West) on new acces road for approximately 0.2 miles to Rodeo Unit 492H Pad (two wells planned to be drilled: 494H, 495H). The RODU 495H well is the furthest to the West and closest to the location entrance.

QUICK REFERENCE	
Sur TD (MD)	360 ft
Int TD (MD)	2,808 ft
KOP (MD)	4,226 ft
KOP (TVD)	3,713 ft
Target (TVD)	4,574 ft
Curve BUR	10 °/100 ft
POE (MD)	5,482 ft
TD (MD)	12,281 ft
Lat Len (ft)	6,816 ft

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	360	13.375	54.5	J-55	BTC	0	360
Intermediate	12.250	2,808	9.625	36.0	J-55	LTC	0	2,808
Production	8.500	12,281	5.500	20.0	HCP-110	TCBC-HT	0	12,281

CEMENT PROPERTIES SUMMARY:

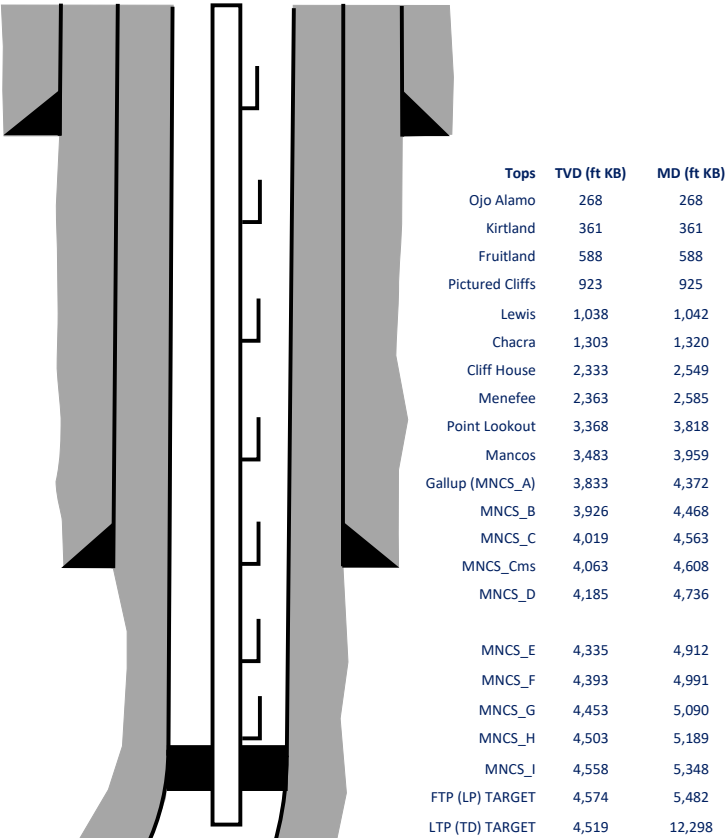
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	10 Type III:P	12.5	2.14	12.05	0.3627	70%	0	540
Inter. (Tail)	Type III	14.6	1.37	6.63	0.3132	20%	2,282	137
Prod. (Lead)	Type I / II	12.4	2.360	13.40	0.2691	65%	0	506
Prod. (Tail)	G:POZ blend	13.3	1.560	7.70	0.2291	10%	3,959	1,347

COMPLETION / PRODUCTION SUMMARY:

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

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

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



Well Name: RODEO UNIT	Well Location: T23N / R8W / SEC 31 / NWNW / 36.190011 / -107.728479	County or Parish/State: SAN JUAN / NM
Well Number: 495H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: NOG14021893	Unit or CA Name:	Unit or CA Number: NMNM136328A
US Well Number: 3004538170	Well Status: Drilling Well	Operator: ENDURING RESOURCES LLC

Subsequent Report

Sundry ID: 2716392

Type of Submission: Subsequent Report	Type of Action: Hydraulic Fracturing
Date Sundry Submitted: 02/17/2023	Time Sundry Submitted: 11:30
Date Operation Actually Began: 12/01/2022	

Actual Procedure: 12/1/2022 thru 12/27/2022- Pre frac site set up, MIRU, Pressure test 12/27/2022 thru 1/3/2023- 24 hour Frac Ops. 29 total stages, total holes 1218. Perfed interval 5344' - 12159' MD. Perfed w 0.31" holes with SFT-NE45B, FRP-48H, CSA-2400, SCI-28H-W, & 8,893,635 lbs total proppant 1/8/2023 thru 1/14/2023 – Drilling out operations 1/14/2023 - tubing landed at 5422'

SR Attachments

Actual Procedure

5_completion_RODEO_495H_20230217113022.pdf

Well Name: RODEO UNIT	Well Location: T23N / R8W / SEC 31 / NWNW / 36.190011 / -107.728479	County or Parish/State: SAN JUAN / NM
Well Number: 495H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: N0G14021893	Unit or CA Name:	Unit or CA Number: NMNM136328A
US Well Number: 3004538170	Well Status: Drilling Well	Operator: ENDURING RESOURCES LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KAYLA WHITE

Signed on: FEB 17, 2023 11:30 AM

Name: ENDURING RESOURCES LLC

Title: Staff Engineer

Street Address: 9446 CLERMONT ST

City: THORNTONState: CO

Phone: (720) 768-3575

Email address: KWHITE@CDHCONSULT.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Accepted

Disposition Date: 02/22/2023

Signature: Kenneth Rennick



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print

03/02/2023

Operator Name ENDURING RESOURCES LLC SHL Lot 1 Sec 31 23N 8W	Well Name RODEO UNIT	Well Number 495H	US Well Number 3004538170
	County SAN JUAN	State NM	Lease Number(s) N0G14021893
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM136328A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name RODEO UNIT	Well Pad Number 492-493 494 495 496	ID 10400041069

Section 1 - General

Well Completion Report Id: 87415**Submission Date:** 02-17-2023**BLM Office:** Farmington Field Office**User:** KAYLA WHITE**Title:** Staff Engineer**Federal/Indian:** INDIAN**Lease Number:** N0G14021893**Lease Acres:****Agreement in place?:** YES**Federal or Indian Agreement:****Agreement Number:****Agreement Name:****Keep this Well Completion Report confidential?:****APD Operator:** ENDURING
RESOURCES LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:** BASIN MANCOS**Field Name:** CHACO**Well Type:** OIL WELL**Spud Date:** 08-04-2022**Date Total Measured Depth Reached:** 11-04-2022**Drill & Abandon or Ready To Produce:** READY TO**Well Class:** HORIZONTAL

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
NACIMIENTO	SANDSTONE, SHALE		6680	0	0	USEABLE WATER	
OJO ALAMO	SANDSTONE, SHALE		6406	274	274	USEABLE WATER	

Operator Name ENDURING RESOURCES LLC SHL Lot 1 Sec 31 23N 8W	Well Name RODEO UNIT	Well Number 495H	US Well Number 3004538170
	County SAN JUAN	State NM	Lease Number(s) N0G14021893
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM136328A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name RODEO UNIT	Well Pad Number 492-493 494 495 496	ID 10400041069

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
KIRTLAND	COAL, SHALE		6285	395	395	COAL, NATURAL GAS	
PICTURED CLIFFS	SANDSTONE		5773	907	907	NATURAL GAS	
LEWIS	SHALE		5725	955	956	NATURAL GAS	
CHACRA	SANDSTONE, SHALE		5340	1340	1353	NATURAL GAS	
CLIFFHOUSE	SANDSTONE		4264	2416	2564	NATURAL GAS	
MENEFEE	COAL, SANDSTONE, SHALE		4258	2422	2570	NATURAL GAS	
POINT LOOKOUT	SANDSTONE, SHALE		3278	3402	3682	NATURAL GAS	
GALLUP	SHALE		3195	3485	4141	NATURAL GAS, OIL	
MANCOS	SHALE		3065	3615	3901	NATURAL GAS, OIL	

Completion and Completed

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM136328A	N0G14021893	NEW		POW	01-17-2023	01-17-2023	MANCOS	4301	12173	Y	.31	1218	OPEN

Operator Name ENDURING RESOURCES LLC SHL Lot 1 Sec 31 23N 8W	Well Name RODEO UNIT	Well Number 495H	US Well Number 3004538170
	County SAN JUAN	State NM	Lease Number(s) N0G14021893
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM136328A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name RODEO UNIT	Well Pad Number 492-493 494 495 496	ID 10400041069

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	N				

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1			FLows FROM WELL		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	01/30/2023	24	40	825	233	20625	64/64	207		825

Operator Name ENDURING RESOURCES LLC SHL Lot 1 Sec 31 23N 8W	Well Name RODEO UNIT	Well Number 495H	US Well Number 3004538170
	County SAN JUAN	State NM	Lease Number(s) N0G14021893
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM136328A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name RODEO UNIT	Well Pad Number 492-493 494 495 496	ID 10400041069

Well Location

Survey Type: RECTANGULAR

Survey Number: 15269

Datum: NAD83

Vertical Datum: NGVD29

Reference Datum:

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.190011	-107.728479	6680	INDIAN	N0G14021893				225	FNL	895	FWL	23N	8W	31	Lot 1
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.190011	-107.728479	6680	INDIAN	N0G14021893				225	FNL	895	FWL	23N	8W	31	Lot 1
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.189996	-107.733161	3330	STATE	STATE				234	FNL	487	FEL	23N	8W	36	NWNW
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.176763	-107.716729	3330	FEDERAL	NMNM120377				240	FSL	923	FEL	23N	8W	31	SESE
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SAN JUAN	36.17652	-107.716418	3330	FEDERAL	NMNM120377				152	FSL	831	FEL	23N	8W	31	SESE

Casing, Liner and Tubing

Operator Name ENDURING RESOURCES LLC SHL Lot 1 Sec 31 23N 8W	Well Name RODEO UNIT	Well Number 495H	US Well Number 3004538170
	County SAN JUAN	State NM	Lease Number(s) NOG14021893
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM136328A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name RODEO UNIT	Well Pad Number 492-493 494 495 496	ID 10400041069

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	360	13.375	54.5	J-55		BUTT		
00	INTERMEDIATE	12.25	0	2808	9.625	36	J-55		LT&C		
00	PRODUCTION	8.5	0	12281	5.5	17	P-110		LT&C		

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE	360	I-II Neat G	350	1.39	0					86.6
00	INTERMEDIATE	2808	3	539	2.14	0	3 blend	136	1.38	2207	238.9
00	PRODUCTION	12281	1/2	504	2.36	0	Class G	1336	1.57	3120	585.4

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		5422		6	L-80		OTHER	EUE

Operator Name ENDURING RESOURCES LLC SHL Lot 1 Sec 31 23N 8W	Well Name RODEO UNIT	Well Number 495H	US Well Number 3004538170
	County SAN JUAN	State NM	Lease Number(s) N0G14021893
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM136328A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name RODEO UNIT	Well Pad Number 492-493 494 495 496	ID 10400041069

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	NO	NO	NO	YES	NO	YES

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: ENDURING RESOURCES LLC**Signed By:** KAYLA WHITE**Title:** Staff Engineer**Signed on:** 03/01/2023**Street Address:** 9446 CLERMONT ST**City:** THORNTON**State:** CO**Zip:** 80229**Phone:** (720)768-3575**Email address:** KWHITE@CDHCONSULT.COM**Field****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Extension:****Email address:****Attachments**

Operator Name ENDURING RESOURCES LLC SHL Lot 1 Sec 31 23N 8W	Well Name RODEO UNIT	Well Number 495H	US Well Number 3004538170
	County SAN JUAN	State NM	Lease Number(s) NOG14021893
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s) NMNM136328A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name RODEO UNIT	Well Pad Number 492-493 494 495 496	ID 10400041069

Enduring_Rodeo__495H_pva_nov0422_final_as_drilled_20230217115631.pdf

Rodeo_Unit_495H_Detailed_As_Drilled_C_102_Plat___SIGNED_20230217115635.pdf

RODEO_495H_WBD_20230217115640.pdf

List_of_Leases_Rodeo_495H_20230301143300.pdf

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-
0137

Expires: January 31, 2018

5. Lease Serial No.

N0-G-1402-1893

1a. Type of Well ☒ Oil Well ☐ Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing
☐ Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM136328A

2. Name of Operator

Enduring Resources IV LLC

8. Lease Name and Well No.

Rodeo 495H

3. Address

200 Energy Court Farmington NM 87402

3a. Phone No. (Include area code)

505-636-9743

9. API Well No.

30-045-38170

4. Location of Well (Report location clearly and in accordance with Federal requirements) *

At surface

SHL: 225' FNL & 895' FWL, Sec 31 T23N, R8W

BHL: 233' FSL & 950' FEL, Sec 31 T23N, R8W

10. Field and Pool or Exploratory
Basin Mancos

11. Sec., T., R., M., on Block and
Survey or Area

Sec 31 T23N R8W

12. County or Parish
San Juan

13. State
NM

At top prod. interval reported below At total depth

14. Date Spudded

8/4/2022

15. Date T.D. Reached

11/4/2022

16. Date Completed 1/17/2023

☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*

6432' KB

18. Total Depth: **12,281' MD**
4,515' TVD

19. Plug Back T.D.: **12,165' MD**
4,513' TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

Form 3160-4
(June 2015)

UNITED STATES

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8", J-55	54.5	0	360' MD		350	86.6	surface	
12-1/4"	9-5/8", J-55	36	0	2808' MD		675	188	surface	
8-1/2"	5-1/2", P-110	20	0	12281' MD		1840	590	surface	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8", 6.5#, L-80	5422'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
MNCS_A	3810' TVD	4610' TVD	5344' - 12159' MD	.31	1218	

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
5344' - 12159' MD	24 hour Frac Ops. 29 total stages, total holes 1218. Perfed interval 5344' - 12159' MD. Perfed w 0.31" holes with SFT-NE45B, FRP-48H, CSA-2400, SCI-28H-W, & 8,893,635 lbs total proppant

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
1/17/2023	1/30/2023	24 hr	➡	40	825	233			Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	207	825	➡					Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
			➡						

Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
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*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
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Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
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28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
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Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
------------	----------------------	-------------	------------------	---------	---------	-----------	---------------	-------------

28. Disposition of Gas (Solid, used for fuel, vented, etc.) Sold

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, fl and shut-in pressures and recoveries.	31. Formation (Log) Markers
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Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
-----------	-----	--------	------------------------------	------	--------------------

OJAM 243
 KRLD 360
 FRLD 579
 PCCF 921
 CLFH_BASAL 2354
 MENF 2385
 PNLC 3340
 MNCS 3488
 Gallup (MNCS_A) 3810

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions) *

Name (please print) Kayla White Title Environmental Engineer
 Signature Kayla White Date: 2/16/2023

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 192593

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 192593
	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 192593

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 192593
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	10/26/2023