

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

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-045-38324	⁵ Pool Name BASIN MANCOS		⁶ Pool Code 97232
⁷ Property Code 321253	⁸ Property Name RODEO UNIT		⁹ Well Number #506H

II. ¹⁰ Surface Location

Ul or lot no. H	Section 25	Township 23N	Range 9W	Lot Idn	Feet from the 1481'	North/South Line NORTH	Feet from the 391'	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location

UL or lot no. P	Section 32	Township 23N	Range 8W	Lot Idn	Feet from the 854'	North/South line South	Feet from the 196'	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 10/17/2023	²² Ready Date 1/29/2024	²³ TD 17,393' MD 4727' TVD	²⁴ PBTD 17,300.9' MD 4736' TVD	²⁵ Perforations ~ 5554' - 17288' MD ~ 4846'-4736' 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		376.36' MD		322 sx - surface
12-1/4"		9-5/8",36#, J-55		2,958.5' MD		731 sx- surface
8-1/2"		5-1/2",17#, P-110		17,393.5' MD		2,679 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: Heather Huntington		Title: Petroleum Engineer	
Title: Permitting Tech		Approval Date: 01/29/2024	
E-mail Address: hhuntington@enduringresources.com		RT EXP Date: 04/29/2024	
Date: 1/25/24	Phone: 505-636-9751		



ENDURING RESOURCES IV LLC

January 9, 2024

Re: RODEO UNIT 506H-30-045-38324

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 that reads "Heather Huntington". The signature is fluid and cursive, with the first name "Heather" and last name "Huntington" clearly distinguishable.

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

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38324	² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 321253	⁵ Property Name RODEO UNIT	⁶ Well Number 506H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6883'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	25	23N	9W		1481	NORTH	391	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
P	32	23N	8W		854	SOUTH	196	EAST	SAN JUAN

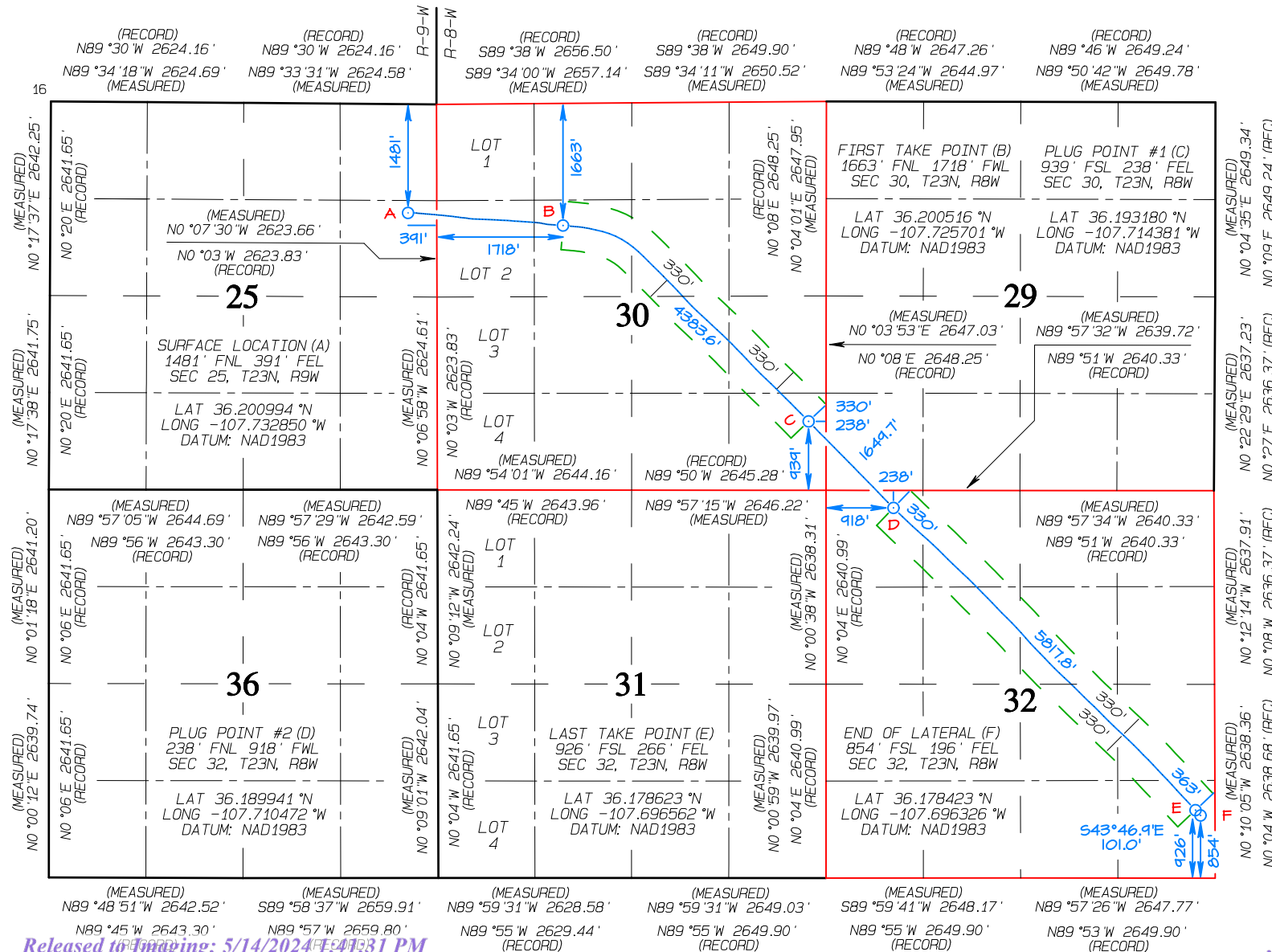
¹² Dedicated Acres 1283.12	Entire Section 30 Entire Section 32	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14313
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
 1/8/24
Signature Date
Heather Huntington
Printed Name
hhuntington@enduringresources.com
E-mail Address

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
Date Revised: JANUARY 6, 2024
Survey Date: SEPTEMBER 15, 2021
Signature and Seal of Professional Surveyor

JASON C. EDWARDS
Certificate Number 15269





Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rodeo 506 FTP 2362 FNL 2211 FEL r5	4866.00	-860.37	3481.83	1891614.268	2756219.596	36.19862000	-107.72105200
Rodeo 506 LTP 926 FSL 234 FEL r5	4774.00	-8130.72	10749.61	1884343.927	2763487.359	36.17862200	-107.69645400
Rodeo 506 Plug point 1 r5	4841.00	-2836.47	5456.93	1889638.172	2758194.686	36.19318500	-107.71436600
Rodeo 506 Plug point 2 r5	44826.13	-4011.16	6631.30	1888463.487	2759369.058	36.18995400	-107.71039100

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rodeo 506 FTP 2362 FNL 2211 FEL r5	4866.00	-860.37	3481.83	1891614.268	2756219.596	36.19862000	-107.72105200
Rodeo 506 LTP 926 FSL 234 FEL r5	4774.00	-8130.72	10749.61	1884343.927	2763487.359	36.17862200	-107.69645400
Rodeo 506 Plug point 1 r5	4841.00	-2836.47	5456.93	1889638.172	2758194.686	36.19318500	-107.71436600
Rodeo 506 Plug point 2 r5	44826.13	-4011.16	6631.30	1888463.487	2759369.058	36.18995400	-107.71039100

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

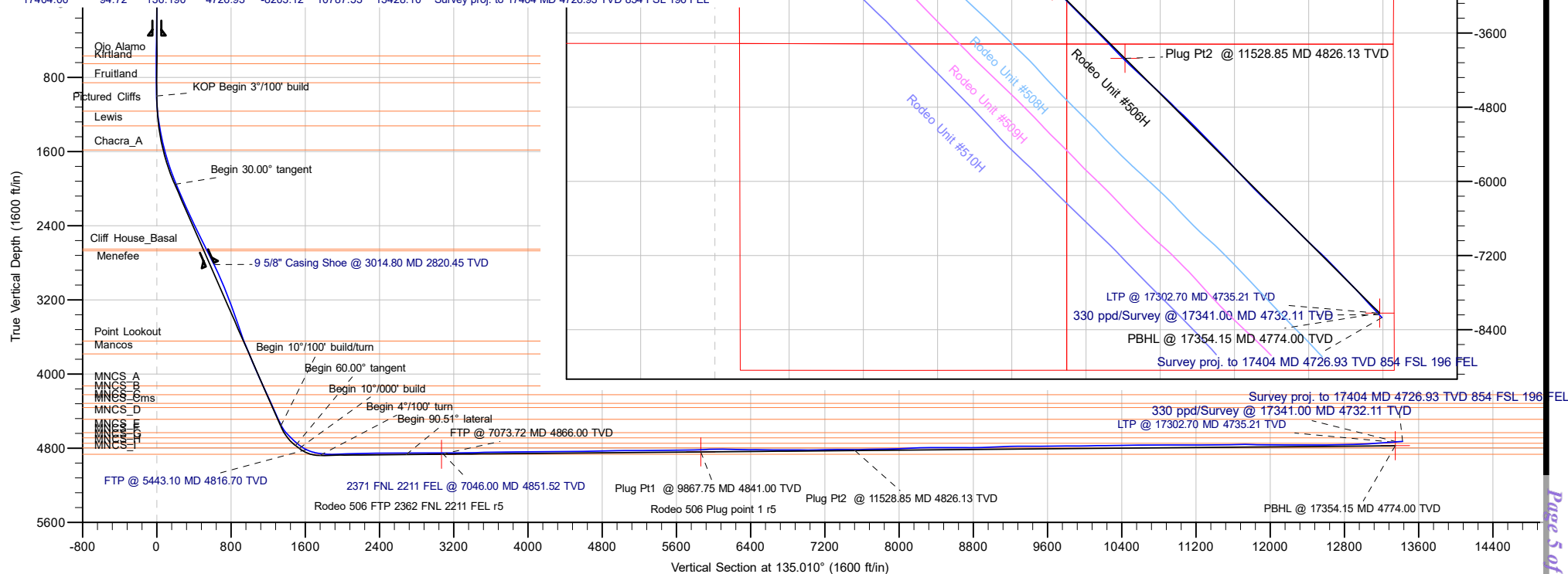
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone
 System Datum: Mean Sea Level
 Depth Reference: RKB=6883+25 @ 6908.00ft (Aztec 1000)
 Surface location:
 Northing Easting Latitude
 392474.635 2752737.771 36.200994000 -107.7

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



TVD	MD	Name
350.00	350.00	13 3/8" Csg
2821.00	3000.05	9 5/8" Csg

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
421.00	0.89	296.180	420.98	1.42	-2.88	-3.04	MWD surveys
3014.80	32.02	97.510	2820.45	-72.10	799.61	616.30	9 5/8" Casing Shoe @ 3014.80 MD 2820.45 TVD
5443.10	70.02	94.356	4816.70	-171.74	2109.49	1612.83	FTP @ 5443.10 MD 4816.70 TVD
7046.00	89.76	135.359	4851.52	-869.42	3481.58	3076.29	2371 FNL 2211 FEL @ 7046.00 MD 4851.52 TVD
17302.70	94.56	136.348	4735.21	-8130.23	10717.68	13327.16	LTP @ 17302.70 MD 4735.21 TVD
17341.00	94.72	136.190	4732.11	-8157.81	10744.07	13365.33	330 ppd/Survey @ 17341.00 MD 4732.11 TVD
17404.00	94.72	136.190	4726.93	-8203.12	10787.53	13428.18	Survey proj. to 17404 MD 4726.93 TVD 854 FSL 196 FEL





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	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 #506H, Surf loc: 1481 FNL 391 FEL Section 25-T23N-R09W		
Well Position	+N/-S	0.00 ft	Northing: 1,892,474.635 usft
	+E/-W	0.00 ft	Easting: 2,752,737.771 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	49,043.03127848

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	135.010	

Survey Program	Date	1/3/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,917.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,947.00	17,341.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
17,404.00	17,404.00	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	
421.00	0.89	296.180	420.98	1.42	-2.88	-3.04	0.22	0.22	0.00	
480.00	0.97	286.370	479.98	1.76	-3.77	-3.91	0.30	0.14	-16.63	
538.00	1.03	292.450	537.97	2.10	-4.72	-4.82	0.21	0.10	10.48	
599.00	0.44	354.390	598.96	2.54	-5.25	-5.51	1.49	-0.97	101.54	
659.00	0.52	42.210	658.96	2.97	-5.09	-5.70	0.66	0.13	79.70	



Survey Report



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Site:	Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)	MD Reference:	RKB=6883+25 @ 6908.00ft (Aztec 1000)
Well:	Rodeo Unit #506H	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	0.63	77.680	718.96	3.24	-4.59	-5.53	0.61	0.18	59.12
780.00	0.84	70.200	779.95	3.46	-3.84	-5.16	0.38	0.34	-12.26
840.00	0.66	90.820	839.95	3.61	-3.08	-4.73	0.54	-0.30	34.37
899.00	0.56	91.180	898.94	3.60	-2.45	-4.28	0.17	-0.17	0.61
958.00	1.41	76.930	957.93	3.76	-1.45	-3.68	1.49	1.44	-24.15
1,024.00	3.79	84.270	1,023.86	4.16	1.51	-1.87	3.63	3.61	11.12
1,087.00	5.88	84.600	1,086.63	4.67	6.79	1.50	3.32	3.32	0.52
1,150.00	7.54	87.580	1,149.20	5.15	14.14	6.35	2.69	2.63	4.73
1,213.00	9.29	92.630	1,211.52	5.09	23.35	12.91	3.01	2.78	8.02
1,276.00	10.92	93.680	1,273.54	4.47	34.38	21.14	2.60	2.59	1.67
1,339.00	12.63	93.180	1,335.21	3.71	47.21	30.76	2.72	2.71	-0.79
1,402.00	14.15	94.460	1,396.50	2.73	61.77	41.74	2.46	2.41	2.03
1,465.00	15.73	94.900	1,457.37	1.40	77.96	54.13	2.51	2.51	0.70
1,528.00	17.04	95.480	1,517.81	-0.21	95.65	67.78	2.10	2.08	0.92
1,591.00	18.36	95.550	1,577.82	-2.06	114.72	82.56	2.10	2.10	0.11
1,655.00	20.11	95.350	1,638.25	-4.06	135.71	98.81	2.74	2.73	-0.31
1,718.00	21.76	95.180	1,697.09	-6.12	158.12	116.12	2.62	2.62	-0.27
1,781.00	23.49	95.220	1,755.24	-8.32	182.26	134.73	2.75	2.75	0.06
1,844.00	25.36	94.940	1,812.60	-10.62	208.20	154.71	2.97	2.97	-0.44
1,906.00	27.00	94.550	1,868.24	-12.88	235.46	175.58	2.66	2.65	-0.63
1,970.00	28.11	94.550	1,924.97	-15.23	264.98	198.10	1.73	1.73	0.00
2,032.00	28.37	94.740	1,979.59	-17.61	294.22	220.46	0.44	0.42	0.31
2,096.00	28.99	95.010	2,035.74	-20.22	324.82	243.94	0.99	0.97	0.42
2,159.00	29.37	95.040	2,090.75	-22.91	355.42	267.47	0.60	0.60	0.05
2,222.00	29.91	95.240	2,145.50	-25.70	386.45	291.39	0.87	0.86	0.32
2,285.00	30.25	95.280	2,200.02	-28.59	417.89	315.66	0.54	0.54	0.06
2,348.00	30.79	94.990	2,254.29	-31.46	449.76	340.22	0.89	0.86	-0.46
2,411.00	31.27	95.150	2,308.27	-34.33	482.11	365.12	0.77	0.76	0.25
2,474.00	32.06	95.860	2,361.90	-37.50	515.02	390.64	1.39	1.25	1.13
2,538.00	31.90	96.590	2,416.18	-41.18	548.72	417.06	0.65	-0.25	1.14
2,601.00	31.41	96.810	2,469.81	-45.03	581.56	443.00	0.80	-0.78	0.35
2,664.00	32.04	97.090	2,523.40	-49.04	614.44	469.08	1.03	1.00	0.44
2,727.00	32.26	97.290	2,576.74	-53.24	647.70	495.57	0.39	0.35	0.32
2,790.00	32.42	97.370	2,629.96	-57.54	681.13	522.24	0.26	0.25	0.13
2,854.00	32.05	97.060	2,684.10	-61.83	714.99	549.21	0.63	-0.58	-0.48
2,917.00	31.97	96.770	2,737.52	-65.85	748.15	575.50	0.28	-0.13	-0.46
2,958.00	32.02	96.650	2,772.29	-68.39	769.72	592.54	0.20	0.12	-0.29
3,069.00	32.03	98.330	2,866.40	-76.06	828.07	639.23	0.80	0.01	1.51
3,164.00	29.75	93.490	2,947.93	-81.14	876.54	677.09	3.55	-2.40	-5.09
3,258.00	28.84	92.970	3,029.91	-83.74	922.46	711.39	1.01	-0.97	-0.55
3,352.00	28.39	92.360	3,112.43	-85.83	967.43	744.66	0.57	-0.48	-0.65
3,447.00	28.42	91.300	3,195.99	-87.28	1,012.60	777.61	0.53	0.03	-1.12
3,541.00	26.86	93.380	3,279.27	-89.04	1,056.16	809.66	1.95	-1.66	2.21



Survey Report



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Well:	Rodeo Unit #506H	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)
3,636.00	26.27	91.720	3,364.24	-90.93	1,098.60	841.00	1.00	-0.62	-1.75
3,730.00	24.78	91.070	3,449.06	-91.92	1,139.09	870.33	1.61	-1.59	-0.69
3,824.00	24.81	93.290	3,534.40	-93.42	1,178.48	899.24	0.99	0.03	2.36
3,918.00	26.13	92.860	3,619.26	-95.59	1,218.84	929.31	1.42	1.40	-0.46
4,012.00	29.72	94.530	3,702.30	-98.46	1,262.76	962.39	3.91	3.82	1.78
4,107.00	29.11	92.080	3,785.06	-101.16	1,309.33	997.22	1.42	-0.64	-2.58
4,201.00	28.66	93.930	3,867.36	-103.54	1,354.67	1,030.95	1.06	-0.48	1.97
4,295.00	29.58	95.030	3,949.48	-107.12	1,400.27	1,065.72	1.13	0.98	1.17
4,389.00	30.47	94.160	4,030.87	-110.88	1,447.16	1,101.53	1.05	0.95	-0.93
4,484.00	31.07	92.820	4,112.50	-113.83	1,495.66	1,137.92	0.96	0.63	-1.41
4,578.00	31.84	93.610	4,192.68	-116.59	1,544.64	1,174.49	0.93	0.82	0.84
4,672.00	32.28	95.380	4,272.35	-120.50	1,594.37	1,212.42	1.10	0.47	1.88
4,767.00	29.41	93.380	4,353.90	-124.26	1,642.93	1,249.40	3.21	-3.02	-2.11
4,861.00	31.95	93.690	4,434.74	-127.22	1,690.79	1,285.34	2.71	2.70	0.33
4,924.00	31.60	94.010	4,488.30	-129.45	1,723.89	1,310.31	0.62	-0.56	0.51
4,955.00	30.71	93.690	4,514.83	-130.52	1,739.89	1,322.39	2.92	-2.87	-1.03
4,987.00	31.36	94.410	4,542.25	-131.69	1,756.35	1,334.85	2.34	2.03	2.25
5,018.00	35.15	97.320	4,568.17	-133.45	1,773.25	1,348.04	13.26	12.23	9.39
5,050.00	38.94	99.750	4,593.70	-136.32	1,792.31	1,363.54	12.69	11.84	7.59
5,082.00	43.66	100.490	4,617.74	-140.04	1,813.09	1,380.87	14.83	14.75	2.31
5,113.00	46.83	101.230	4,639.56	-144.19	1,834.71	1,399.08	10.37	10.23	2.39
5,145.00	49.44	101.280	4,660.92	-148.84	1,858.08	1,418.90	8.16	8.16	0.16
5,176.00	50.92	98.470	4,680.77	-152.92	1,881.53	1,438.36	8.44	4.77	-9.06
5,207.00	53.26	96.940	4,699.82	-156.19	1,905.77	1,457.81	8.49	7.55	-4.94
5,239.00	55.37	95.210	4,718.48	-158.94	1,931.61	1,478.02	7.92	6.59	-5.41
5,270.00	57.92	93.770	4,735.53	-160.96	1,957.42	1,497.70	9.09	8.23	-4.65
5,302.00	58.70	94.220	4,752.34	-162.86	1,984.58	1,518.24	2.72	2.44	1.41
5,333.00	58.80	94.090	4,768.42	-164.78	2,011.02	1,538.29	0.48	0.32	-0.42
5,365.00	60.82	93.750	4,784.51	-166.67	2,038.61	1,559.13	6.38	6.31	-1.06
5,396.00	64.73	94.150	4,798.69	-168.57	2,066.10	1,579.92	12.66	12.61	1.29
5,428.00	68.59	94.140	4,811.36	-170.69	2,095.40	1,602.13	12.06	12.06	-0.03
5,459.00	71.52	94.580	4,821.94	-172.91	2,124.46	1,624.24	9.55	9.45	1.42
5,491.00	73.90	94.810	4,831.45	-175.41	2,154.90	1,647.54	7.47	7.44	0.72
5,522.00	76.31	94.990	4,839.42	-177.97	2,184.75	1,670.45	7.79	7.77	0.58
5,554.00	79.00	95.210	4,846.26	-180.75	2,215.88	1,694.42	8.43	8.41	0.69
5,585.00	81.68	94.960	4,851.46	-183.45	2,246.32	1,717.86	8.68	8.65	-0.81
5,617.00	83.84	95.290	4,855.49	-186.29	2,277.94	1,742.21	6.83	6.75	1.03
5,648.00	84.77	95.620	4,858.57	-189.22	2,308.65	1,766.00	3.18	3.00	1.06
5,679.00	85.22	95.650	4,861.27	-192.26	2,339.38	1,789.87	1.45	1.45	0.10
5,711.00	85.90	96.740	4,863.75	-195.70	2,371.09	1,814.73	4.01	2.13	3.41
5,742.00	87.05	99.630	4,865.66	-200.10	2,401.72	1,839.49	10.02	3.71	9.32
5,774.00	87.43	101.070	4,867.20	-205.85	2,433.16	1,865.78	4.65	1.19	4.50



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	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)	
5,805.00	89.33	101.470	4,868.07	-211.90	2,463.55	1,891.55	6.26	6.13	1.29	
5,837.00	92.56	102.340	4,867.55	-218.50	2,494.85	1,918.35	10.45	10.09	2.72	
5,900.00	93.39	101.920	4,864.28	-231.72	2,556.36	1,971.18	1.48	1.32	-0.67	
5,994.00	92.48	104.770	4,859.46	-253.39	2,647.69	2,051.08	3.18	-0.97	3.03	
6,088.00	90.23	109.250	4,857.24	-280.87	2,737.52	2,134.03	5.33	-2.39	4.77	
6,183.00	90.41	115.300	4,856.71	-316.86	2,825.39	2,221.60	6.37	0.19	6.37	
6,277.00	91.31	120.140	4,855.29	-360.57	2,908.57	2,311.32	5.24	0.96	5.15	
6,372.00	89.20	123.350	4,854.87	-410.54	2,989.34	2,403.76	4.04	-2.22	3.38	
6,466.00	90.82	128.930	4,854.86	-465.96	3,065.22	2,496.60	6.18	1.72	5.94	
6,560.00	90.94	132.890	4,853.41	-527.49	3,136.24	2,590.33	4.21	0.13	4.21	
6,655.00	90.45	135.350	4,852.26	-593.62	3,204.43	2,685.30	2.64	-0.52	2.59	
6,749.00	90.31	134.370	4,851.64	-659.92	3,271.06	2,779.30	1.05	-0.15	-1.04	
6,844.00	90.12	134.950	4,851.28	-726.70	3,338.63	2,874.30	0.64	-0.20	0.61	
6,938.00	89.92	134.640	4,851.25	-792.93	3,405.33	2,968.30	0.39	-0.21	-0.33	
7,032.00	89.81	135.450	4,851.47	-859.45	3,471.75	3,062.29	0.87	-0.12	0.86	
7,127.00	89.50	134.830	4,852.04	-926.78	3,538.76	3,157.29	0.73	-0.33	-0.65	
7,221.00	90.41	136.070	4,852.11	-993.77	3,604.70	3,251.29	1.64	0.97	1.32	
7,315.00	90.91	136.240	4,851.03	-1,061.56	3,669.81	3,345.26	0.56	0.53	0.18	
7,409.00	91.84	137.660	4,848.77	-1,130.23	3,733.96	3,439.18	1.81	0.99	1.51	
7,503.00	91.60	137.830	4,845.95	-1,199.77	3,797.14	3,533.03	0.31	-0.26	0.18	
7,597.00	91.08	135.170	4,843.75	-1,267.93	3,861.82	3,626.96	2.88	-0.55	-2.83	
7,691.00	91.07	132.600	4,841.99	-1,333.08	3,929.55	3,720.92	2.73	-0.01	-2.73	
7,786.00	90.78	132.540	4,840.46	-1,397.34	3,999.50	3,815.82	0.31	-0.31	-0.06	
7,880.00	90.41	133.610	4,839.48	-1,461.53	4,068.16	3,909.76	1.20	-0.39	1.14	
7,975.00	90.13	133.370	4,839.03	-1,526.91	4,137.08	4,004.73	0.39	-0.29	-0.25	
8,069.00	89.79	132.580	4,839.10	-1,590.99	4,205.86	4,098.66	0.91	-0.36	-0.84	
8,163.00	89.83	132.930	4,839.41	-1,654.80	4,274.88	4,192.59	0.37	0.04	0.37	
8,257.00	90.64	134.300	4,839.03	-1,719.64	4,342.93	4,286.56	1.69	0.86	1.46	
8,352.00	91.80	136.100	4,837.00	-1,787.03	4,409.85	4,381.53	2.25	1.22	1.89	
8,446.00	91.50	135.820	4,834.30	-1,854.57	4,475.17	4,475.48	0.44	-0.32	-0.30	
8,540.00	89.00	135.150	4,833.89	-1,921.60	4,541.07	4,569.47	2.75	-2.66	-0.71	
8,635.00	90.59	136.520	4,834.23	-1,989.74	4,607.25	4,664.45	2.21	1.67	1.44	
8,729.00	92.80	138.750	4,831.44	-2,059.15	4,670.56	4,758.30	3.34	2.35	2.37	
8,824.00	90.60	134.120	4,828.63	-2,127.93	4,735.98	4,853.20	5.39	-2.32	-4.87	
8,918.00	90.43	134.490	4,827.78	-2,193.59	4,803.25	4,947.19	0.43	-0.18	0.39	
9,012.00	90.31	134.230	4,827.17	-2,259.31	4,870.45	5,041.18	0.30	-0.13	-0.28	
9,106.00	90.03	132.760	4,826.89	-2,324.00	4,938.64	5,135.14	1.59	-0.30	-1.56	
9,201.00	90.86	135.180	4,826.16	-2,389.95	5,007.00	5,230.12	2.69	0.87	2.55	
9,295.00	90.60	135.000	4,824.96	-2,456.52	5,073.36	5,324.11	0.34	-0.28	-0.19	
9,389.00	90.50	133.780	4,824.06	-2,522.27	5,140.53	5,418.10	1.30	-0.11	-1.30	
9,483.00	90.70	136.060	4,823.07	-2,588.64	5,207.08	5,512.09	2.43	0.21	2.43	
9,578.00	90.75	135.160	4,821.87	-2,656.52	5,273.53	5,607.07	0.95	0.05	-0.95	
9,672.00	90.08	134.010	4,821.19	-2,722.50	5,340.48	5,701.06	1.42	-0.71	-1.22	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	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)
9,766.00	91.93	136.960	4,819.54	-2,789.51	5,406.36	5,795.03	3.70	1.97	3.14
9,860.00	92.07	135.810	4,816.26	-2,857.52	5,471.16	5,888.95	1.23	0.15	-1.22
9,955.00	92.45	136.030	4,812.51	-2,925.71	5,537.20	5,983.86	0.46	0.40	0.23
10,049.00	88.82	135.370	4,811.47	-2,992.97	5,602.83	6,077.83	3.92	-3.86	-0.70
10,143.00	88.66	134.640	4,813.54	-3,059.43	5,669.28	6,171.81	0.79	-0.17	-0.78
10,237.00	89.15	135.490	4,815.33	-3,125.96	5,735.66	6,265.79	1.04	0.52	0.90
10,332.00	89.58	135.290	4,816.39	-3,193.59	5,802.37	6,360.78	0.50	0.45	-0.21
10,426.00	89.13	135.860	4,817.45	-3,260.71	5,868.16	6,454.77	0.77	-0.48	0.61
10,521.00	89.41	135.790	4,818.66	-3,328.84	5,934.36	6,549.75	0.30	0.29	-0.07
10,616.00	89.72	135.180	4,819.38	-3,396.58	6,000.96	6,644.75	0.72	0.33	-0.64
10,710.00	89.86	135.690	4,819.72	-3,463.55	6,066.92	6,738.74	0.56	0.15	0.54
10,804.00	89.79	135.400	4,820.01	-3,530.65	6,132.76	6,832.74	0.32	-0.07	-0.31
10,899.00	89.56	135.360	4,820.55	-3,598.27	6,199.48	6,927.73	0.25	-0.24	-0.04
10,993.00	89.33	135.450	4,821.46	-3,665.20	6,265.48	7,021.73	0.26	-0.24	0.10
11,087.00	91.99	135.890	4,820.38	-3,732.43	6,331.15	7,115.71	2.87	2.83	0.47
11,182.00	91.39	135.970	4,817.57	-3,800.66	6,397.20	7,210.65	0.64	-0.63	0.08
11,276.00	90.66	136.420	4,815.89	-3,868.49	6,462.25	7,304.62	0.91	-0.78	0.48
11,371.00	89.92	136.100	4,815.41	-3,937.12	6,527.94	7,399.59	0.85	-0.78	-0.34
11,465.00	89.83	133.800	4,815.62	-4,003.53	6,594.46	7,493.59	2.45	-0.10	-2.45
11,559.00	90.89	134.030	4,815.03	-4,068.72	6,662.17	7,587.57	1.15	1.13	0.24
11,653.00	90.92	134.260	4,813.54	-4,134.18	6,729.61	7,681.54	0.25	0.03	0.24
11,747.00	90.53	133.940	4,812.35	-4,199.59	6,797.11	7,775.52	0.54	-0.41	-0.34
11,841.00	92.05	132.740	4,810.24	-4,264.09	6,865.46	7,869.45	2.06	1.62	-1.28
11,935.00	92.04	131.660	4,806.88	-4,327.19	6,935.05	7,963.28	1.15	-0.01	-1.15
12,029.00	92.10	131.680	4,803.49	-4,389.64	7,005.22	8,057.06	0.07	0.06	0.02
12,123.00	92.37	131.990	4,799.82	-4,452.29	7,075.20	8,150.84	0.44	0.29	0.33
12,218.00	91.29	133.360	4,796.79	-4,516.65	7,145.01	8,245.71	1.84	-1.14	1.44
12,312.00	91.21	133.490	4,794.74	-4,581.25	7,213.26	8,339.65	0.16	-0.09	0.14
12,406.00	89.73	135.570	4,793.96	-4,647.16	7,280.26	8,433.64	2.72	-1.57	2.21
12,501.00	90.16	134.390	4,794.06	-4,714.32	7,347.46	8,528.64	1.32	0.45	-1.24
12,595.00	90.17	133.790	4,793.79	-4,779.72	7,414.98	8,622.63	0.64	0.01	-0.64
12,689.00	89.99	133.930	4,793.65	-4,844.85	7,482.75	8,716.61	0.24	-0.19	0.15
12,784.00	89.85	131.670	4,793.79	-4,909.39	7,552.45	8,811.53	2.38	-0.15	-2.38
12,878.00	91.58	135.060	4,792.61	-4,973.92	7,620.77	8,905.47	4.05	1.84	3.61
12,973.00	92.35	135.330	4,789.36	-5,041.28	7,687.68	9,000.41	0.86	0.81	0.28
13,067.00	92.86	135.010	4,785.08	-5,107.88	7,753.88	9,094.31	0.64	0.54	-0.34
13,162.00	91.47	135.910	4,781.49	-5,175.54	7,820.46	9,189.24	1.74	-1.46	0.95
13,256.00	90.31	133.920	4,780.03	-5,241.90	7,887.02	9,283.22	2.45	-1.23	-2.12
13,350.00	89.86	136.910	4,779.90	-5,308.84	7,953.00	9,377.21	3.22	-0.48	3.18
13,444.00	90.23	136.590	4,779.82	-5,377.30	8,017.40	9,471.16	0.52	0.39	-0.34
13,538.00	90.31	135.440	4,779.38	-5,444.94	8,082.68	9,565.14	1.23	0.09	-1.22
13,633.00	90.61	135.140	4,778.62	-5,512.45	8,149.51	9,660.14	0.45	0.32	-0.32



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	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)	
13,727.00	91.27	134.570	4,777.07	-5,578.74	8,216.14	9,754.13	0.93	0.70	-0.61	
13,821.00	89.07	137.360	4,776.79	-5,646.31	8,281.47	9,848.10	3.78	-2.34	2.97	
13,915.00	90.33	138.220	4,777.29	-5,715.93	8,344.62	9,941.98	1.62	1.34	0.91	
14,010.00	91.38	138.970	4,775.87	-5,787.17	8,407.44	10,036.79	1.36	1.11	0.79	
14,105.00	90.47	137.010	4,774.34	-5,857.75	8,471.01	10,131.64	2.27	-0.96	-2.06	
14,199.00	90.74	136.150	4,773.34	-5,926.02	8,535.61	10,225.60	0.96	0.29	-0.91	
14,294.00	91.30	136.640	4,771.65	-5,994.80	8,601.12	10,320.55	0.78	0.59	0.52	
14,388.00	90.41	135.320	4,770.25	-6,062.38	8,666.44	10,414.53	1.69	-0.95	-1.40	
14,482.00	91.84	136.710	4,768.40	-6,130.00	8,731.70	10,508.49	2.12	1.52	1.48	
14,576.00	89.55	134.930	4,767.26	-6,197.40	8,797.20	10,602.46	3.09	-2.44	-1.89	
14,670.00	89.79	133.650	4,767.80	-6,263.04	8,864.48	10,696.45	1.39	0.26	-1.36	
14,764.00	90.54	133.230	4,767.53	-6,327.67	8,932.73	10,790.42	0.91	0.80	-0.45	
14,859.00	91.66	132.940	4,765.71	-6,392.55	9,002.10	10,885.34	1.22	1.18	-0.31	
14,952.00	88.93	135.020	4,765.23	-6,457.12	9,069.01	10,978.31	3.69	-2.94	2.24	
15,046.00	90.09	135.690	4,766.04	-6,524.00	9,135.06	11,072.31	1.43	1.23	0.71	
15,140.00	89.54	134.340	4,766.34	-6,590.48	9,201.51	11,166.30	1.55	-0.59	-1.44	
15,234.00	89.75	133.440	4,766.92	-6,655.65	9,269.25	11,260.28	0.98	0.22	-0.96	
15,328.00	90.53	133.020	4,766.69	-6,720.03	9,337.74	11,354.23	0.94	0.83	-0.45	
15,422.00	91.04	135.800	4,765.40	-6,785.80	9,404.88	11,448.21	3.01	0.54	2.96	
15,516.00	91.48	135.820	4,763.34	-6,853.18	9,470.38	11,542.18	0.47	0.47	0.02	
15,610.00	92.10	134.060	4,760.40	-6,919.54	9,536.89	11,636.13	1.98	0.66	-1.87	
15,704.00	88.70	134.190	4,759.74	-6,984.98	9,604.35	11,730.10	3.62	-3.62	0.14	
15,798.00	88.05	132.470	4,762.41	-7,049.45	9,672.70	11,824.02	1.96	-0.69	-1.83	
15,892.00	89.51	134.060	4,764.41	-7,113.86	9,741.13	11,917.95	2.30	1.55	1.69	
15,986.00	90.41	133.270	4,764.48	-7,178.76	9,809.12	12,011.92	1.27	0.96	-0.84	
16,080.00	89.15	134.600	4,764.84	-7,243.98	9,876.81	12,105.90	1.95	-1.34	1.41	
16,175.00	89.35	135.800	4,766.08	-7,311.38	9,943.75	12,200.89	1.28	0.21	1.26	
16,269.00	89.88	135.370	4,766.71	-7,378.52	10,009.53	12,294.88	0.73	0.56	-0.46	
16,364.00	90.46	134.820	4,766.43	-7,445.81	10,076.59	12,389.88	0.84	0.61	-0.58	
16,458.00	89.79	137.950	4,766.23	-7,513.85	10,141.43	12,483.84	3.41	-0.71	3.33	
16,553.00	90.29	136.920	4,766.16	-7,583.82	10,205.69	12,578.76	1.21	0.53	-1.08	
16,646.00	90.72	135.970	4,765.34	-7,651.21	10,269.76	12,671.72	1.12	0.46	-1.02	
16,740.00	91.25	135.300	4,763.72	-7,718.40	10,335.48	12,765.70	0.91	0.56	-0.71	
16,834.00	91.91	138.570	4,761.13	-7,787.04	10,399.63	12,859.60	3.55	0.70	3.48	
16,928.00	92.02	137.570	4,757.91	-7,856.93	10,462.41	12,953.41	1.07	0.12	-1.06	
17,023.00	92.89	137.350	4,753.84	-7,926.86	10,526.58	13,048.23	0.94	0.92	-0.23	
17,117.00	93.51	136.570	4,748.59	-7,995.46	10,590.63	13,142.03	1.06	0.66	-0.83	
17,211.00	94.24	136.920	4,742.24	-8,063.76	10,654.90	13,235.77	0.86	0.78	0.37	
17,304.00	94.56	136.340	4,735.10	-8,131.17	10,718.57	13,328.46	0.71	0.34	-0.62	
17,341.00	94.72	136.190	4,732.11	-8,157.81	10,744.07	13,365.33	0.59	0.43	-0.41	
17,404.00	94.72	136.190	4,726.93	-8,203.12	10,787.53	13,428.10	0.00	0.00	0.00	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
421.00	420.98	1.42	-2.88	MWD surveys
3,014.80	2,820.45	-72.10	799.61	9 5/8" Casing Shoe @ 3014.80 MD 2820.45 TVD
5,443.10	4,816.70	-171.74	2,109.49	FTP @ 5443.10 MD 4816.70 TVD
7,046.00	4,851.52	-869.42	3,481.58	2371 FNL 2211 FEL @ 7046.00 MD 4851.52 TVD
17,302.70	4,735.21	-8,130.23	10,717.68	LTP @ 17302.70 MD 4735.21 TVD
17,341.00	4,732.11	-8,157.81	10,744.07	330 ppd/Survey @ 17341.00 MD 4732.11 TVD
17,404.00	4,726.93	-8,203.12	10,787.53	Survey proj. to 17404 MD 4726.93 TVD 854 FSL 196 FEL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	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 #506H, Surf loc: 1481 FNL 391 FEL Section 25-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,892,474.635 usft	Latitude:	36.200994000
	+E/-W	0.00 ft	Easting:	2,752,737.771 usft	Longitude:	-107.732850000
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	49,043.03127848

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	135.010	

Survey Program	Date	1/3/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
8.00	2,917.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
2,947.00	17,341.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
17,404.00	17,404.00	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	1,892,474.635	2,752,737.771	36.200994000	-107.732850000	
8.00	0.00	0.000	8.00	0.00	0.00	1,892,474.635	2,752,737.771	36.200994000	-107.732850000	
421.00	0.89	296.180	420.98	1.42	-2.88	1,892,476.050	2,752,734.892	36.200997896	-107.732859751	
480.00	0.97	286.370	479.98	1.76	-3.77	1,892,476.393	2,752,734.002	36.200998840	-107.732862768	
538.00	1.03	292.450	537.97	2.10	-4.72	1,892,476.730	2,752,733.049	36.200999770	-107.732865996	
599.00	0.44	354.390	598.96	2.54	-5.25	1,892,477.173	2,752,732.520	36.201000987	-107.732867790	
659.00	0.52	42.210	658.96	2.97	-5.09	1,892,477.604	2,752,732.680	36.201002170	-107.732867245	
719.00	0.63	77.680	718.96	3.24	-4.59	1,892,477.876	2,752,733.185	36.201002916	-107.732865532	
780.00	0.84	70.200	779.95	3.46	-3.84	1,892,478.099	2,752,733.933	36.201003527	-107.732862994	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
840.00	0.66	90.820	839.95	3.61	-3.08	1,892,478.243	2,752,734.693	36.201003920	-107.732860420
899.00	0.56	91.180	898.94	3.60	-2.45	1,892,478.232	2,752,735.321	36.201003889	-107.732858291
958.00	1.41	76.930	957.93	3.76	-1.45	1,892,478.390	2,752,736.316	36.201004321	-107.732854917
1,024.00	3.79	84.270	1,023.86	4.16	1.51	1,892,478.792	2,752,739.278	36.201005415	-107.732844877
1,087.00	5.88	84.600	1,086.63	4.67	6.79	1,892,479.303	2,752,744.563	36.201006805	-107.732826962
1,150.00	7.54	87.580	1,149.20	5.15	14.14	1,892,479.782	2,752,751.906	36.201008098	-107.732802072
1,213.00	9.29	92.630	1,211.52	5.09	23.35	1,892,479.723	2,752,761.116	36.201007911	-107.732770855
1,276.00	10.92	93.680	1,273.54	4.47	34.38	1,892,479.106	2,752,772.152	36.201006186	-107.732733453
1,339.00	12.63	93.180	1,335.21	3.71	47.21	1,892,478.341	2,752,784.985	36.201004047	-107.732689960
1,402.00	14.15	94.460	1,396.50	2.73	61.77	1,892,477.360	2,752,799.540	36.201001311	-107.732640630
1,465.00	15.73	94.900	1,457.37	1.40	77.96	1,892,476.032	2,752,815.726	36.200997616	-107.732585770
1,528.00	17.04	95.480	1,517.81	-0.21	95.65	1,892,474.421	2,752,833.424	36.200993140	-107.732525791
1,591.00	18.36	95.550	1,577.82	-2.06	114.72	1,892,472.580	2,752,852.489	36.200988027	-107.732461178
1,655.00	20.11	95.350	1,638.25	-4.06	135.71	1,892,470.579	2,752,873.478	36.200982471	-107.732390047
1,718.00	21.76	95.180	1,697.09	-6.12	158.12	1,892,468.515	2,752,895.892	36.200976736	-107.732314081
1,781.00	23.49	95.220	1,755.24	-8.32	182.26	1,892,466.318	2,752,920.028	36.200970632	-107.732232284
1,844.00	25.36	94.940	1,812.60	-10.62	208.20	1,892,464.014	2,752,945.975	36.200964228	-107.732144346
1,906.00	27.00	94.550	1,868.24	-12.88	235.46	1,892,461.754	2,752,973.234	36.200957941	-107.732051961
1,970.00	28.11	94.550	1,924.97	-15.23	264.98	1,892,459.405	2,753,002.747	36.200951405	-107.731951939
2,032.00	28.37	94.740	1,979.59	-17.61	294.22	1,892,457.029	2,753,031.986	36.200944794	-107.731852841
2,096.00	28.99	95.010	2,035.74	-20.22	324.82	1,892,454.418	2,753,062.590	36.200937533	-107.731749123
2,159.00	29.37	95.040	2,090.75	-22.91	355.42	1,892,451.728	2,753,093.187	36.200930054	-107.731645424
2,222.00	29.91	95.240	2,145.50	-25.70	386.45	1,892,448.936	2,753,124.219	36.200922296	-107.731540257
2,285.00	30.25	95.280	2,200.02	-28.59	417.89	1,892,446.041	2,753,155.662	36.200914253	-107.731433693
2,348.00	30.79	94.990	2,254.29	-31.46	449.76	1,892,443.178	2,753,187.527	36.200906296	-107.731325699
2,411.00	31.27	95.150	2,308.27	-34.33	482.11	1,892,440.308	2,753,219.875	36.200898318	-107.731216067
2,474.00	32.06	95.860	2,361.90	-37.50	515.02	1,892,437.133	2,753,252.794	36.200889501	-107.731104504
2,538.00	31.90	96.590	2,416.18	-41.18	548.72	1,892,433.458	2,753,286.489	36.200879308	-107.730990309
2,601.00	31.41	96.810	2,469.81	-45.03	581.56	1,892,429.601	2,753,319.326	36.200868617	-107.730879026
2,664.00	32.04	97.090	2,523.40	-49.04	614.44	1,892,425.592	2,753,352.210	36.200857508	-107.730767582
2,727.00	32.26	97.290	2,576.74	-53.24	647.70	1,892,421.396	2,753,385.471	36.200845884	-107.730654862
2,790.00	32.42	97.370	2,629.96	-57.54	681.13	1,892,417.096	2,753,418.897	36.200833975	-107.730541583
2,854.00	32.05	97.060	2,684.10	-61.83	714.99	1,892,412.808	2,753,452.763	36.200822097	-107.730426810
2,917.00	31.97	96.770	2,737.52	-65.85	748.15	1,892,408.788	2,753,485.914	36.200810956	-107.730314462
2,958.00	32.02	96.650	2,772.29	-68.39	769.72	1,892,406.249	2,753,507.489	36.200803920	-107.730241345
3,069.00	32.03	98.330	2,866.40	-76.06	828.07	1,892,398.577	2,753,565.844	36.200782673	-107.730043585
3,164.00	29.75	93.490	2,947.93	-81.14	876.54	1,892,393.491	2,753,614.311	36.200768559	-107.729879328
3,258.00	28.84	92.970	3,029.91	-83.74	922.46	1,892,390.897	2,753,660.231	36.200761297	-107.729723694
3,352.00	28.39	92.360	3,112.43	-85.83	967.43	1,892,388.802	2,753,705.201	36.200755410	-107.729571283
3,447.00	28.42	91.300	3,195.99	-87.28	1,012.60	1,892,387.359	2,753,750.367	36.200751314	-107.729418199
3,541.00	26.86	93.380	3,279.27	-89.04	1,056.16	1,892,385.599	2,753,793.932	36.200746352	-107.729270546
3,636.00	26.27	91.720	3,364.24	-90.93	1,098.60	1,892,383.703	2,753,836.371	36.200741017	-107.729126710
3,730.00	24.78	91.070	3,449.06	-91.92	1,139.09	1,892,382.711	2,753,876.862	36.200738172	-107.728989473
3,824.00	24.81	93.290	3,534.40	-93.42	1,178.48	1,892,381.211	2,753,916.248	36.200733935	-107.728855983
3,918.00	26.13	92.860	3,619.26	-95.59	1,218.84	1,892,379.046	2,753,956.612	36.200727869	-107.728719180
4,012.00	29.72	94.530	3,702.30	-98.46	1,262.76	1,892,376.172	2,754,000.529	36.200719843	-107.728570340
4,107.00	29.11	92.080	3,785.06	-101.16	1,309.33	1,892,373.473	2,754,047.099	36.200712291	-107.728412504
4,201.00	28.66	93.930	3,867.36	-103.54	1,354.67	1,892,371.098	2,754,092.439	36.200705633	-107.728258838
4,295.00	29.58	95.030	3,949.48	-107.12	1,400.27	1,892,367.519	2,754,138.040	36.200695664	-107.728104289
4,389.00	30.47	94.160	4,030.87	-110.88	1,447.16	1,892,363.756	2,754,184.923	36.200685187	-107.727945397
4,484.00	31.07	92.820	4,112.50	-113.83	1,495.66	1,892,360.803	2,754,233.432	36.200676928	-107.727780993
4,578.00	31.84	93.610	4,192.68	-116.59	1,544.64	1,892,358.048	2,754,282.405	36.200669215	-107.727615013
4,672.00	32.28	95.380	4,272.35	-120.50	1,594.37	1,892,354.133	2,754,332.142	36.200658312	-107.727446449
4,767.00	29.41	93.380	4,353.90	-124.26	1,642.93	1,892,350.379	2,754,380.694	36.200647852	-107.727281900



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	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
4,861.00	31.95	93.690	4,434.74	-127.22	1,690.79	1,892,347.417	2,754,428.561	36.200639571	-107.727119670
4,924.00	31.60	94.010	4,488.30	-129.45	1,723.89	1,892,345.190	2,754,461.660	36.200633354	-107.727007490
4,955.00	30.71	93.690	4,514.83	-130.52	1,739.89	1,892,344.112	2,754,477.662	36.200630346	-107.726953258
4,987.00	31.36	94.410	4,542.25	-131.69	1,756.35	1,892,342.946	2,754,494.118	36.200627093	-107.726897485
5,018.00	35.15	97.320	4,568.17	-133.45	1,773.25	1,892,341.188	2,754,511.019	36.200622212	-107.726840209
5,050.00	38.94	99.750	4,593.70	-136.32	1,792.31	1,892,338.310	2,754,530.074	36.200614249	-107.726775634
5,082.00	43.66	100.490	4,617.74	-140.04	1,813.09	1,892,334.594	2,754,550.858	36.200603978	-107.726705202
5,113.00	46.83	101.230	4,639.56	-144.19	1,834.71	1,892,330.443	2,754,572.474	36.200592510	-107.726631952
5,145.00	49.44	101.280	4,660.92	-148.84	1,858.08	1,892,325.792	2,754,595.845	36.200579662	-107.726552757
5,176.00	50.92	98.470	4,680.77	-152.92	1,881.53	1,892,321.716	2,754,619.298	36.200568393	-107.726473280
5,207.00	53.26	96.940	4,699.82	-156.19	1,905.77	1,892,318.442	2,754,643.533	36.200559327	-107.726391150
5,239.00	55.37	95.210	4,718.48	-158.94	1,931.61	1,892,315.697	2,754,669.376	36.200551707	-107.726303568
5,270.00	57.92	93.770	4,735.53	-160.96	1,957.42	1,892,313.675	2,754,695.187	36.200546074	-107.726216090
5,302.00	58.70	94.220	4,752.34	-162.86	1,984.58	1,892,311.778	2,754,722.350	36.200540779	-107.726124033
5,333.00	58.80	94.090	4,768.42	-164.78	2,011.02	1,892,309.857	2,754,748.782	36.200535424	-107.726034450
5,365.00	60.82	93.750	4,784.51	-166.67	2,038.61	1,892,307.967	2,754,776.376	36.200530148	-107.725940932
5,396.00	64.73	94.150	4,798.69	-168.57	2,066.10	1,892,306.067	2,754,803.870	36.200524844	-107.725847749
5,428.00	68.59	94.140	4,811.36	-170.69	2,095.40	1,892,303.944	2,754,833.169	36.200518922	-107.725748450
5,459.00	71.52	94.580	4,821.94	-172.91	2,124.46	1,892,301.728	2,754,862.222	36.200512746	-107.725649987
5,491.00	73.90	94.810	4,831.45	-175.41	2,154.90	1,892,299.227	2,754,892.671	36.200505782	-107.725546792
5,522.00	76.31	94.990	4,839.42	-177.97	2,184.75	1,892,296.668	2,754,922.518	36.200498661	-107.725445639
5,554.00	79.00	95.210	4,846.26	-180.75	2,215.88	1,892,293.889	2,754,953.651	36.200490932	-107.725340126
5,585.00	81.68	94.960	4,851.46	-183.45	2,246.32	1,892,291.181	2,754,984.089	36.200483399	-107.725236972
5,617.00	83.84	95.290	4,855.49	-186.29	2,277.94	1,892,288.345	2,755,015.704	36.200475512	-107.725129824
5,648.00	84.77	95.620	4,858.57	-189.22	2,308.65	1,892,285.412	2,755,046.411	36.200467362	-107.725025757
5,679.00	85.22	95.650	4,861.27	-192.26	2,339.38	1,892,282.380	2,755,077.144	36.200458938	-107.724921604
5,711.00	85.90	96.740	4,863.75	-195.70	2,371.09	1,892,278.937	2,755,108.861	36.200449383	-107.724814116
5,742.00	87.05	99.630	4,865.66	-200.10	2,401.72	1,892,274.532	2,755,139.483	36.200437188	-107.724710342
5,774.00	87.43	101.070	4,867.20	-205.85	2,433.16	1,892,268.790	2,755,170.925	36.200421316	-107.724603795
5,805.00	89.33	101.470	4,868.07	-211.90	2,463.55	1,892,262.734	2,755,201.313	36.200404587	-107.724500819
5,837.00	92.56	102.340	4,867.55	-218.50	2,494.85	1,892,256.135	2,755,232.616	36.200386361	-107.724394746
5,900.00	93.39	101.920	4,864.28	-231.72	2,556.36	1,892,242.915	2,755,294.126	36.200349854	-107.724186316
5,994.00	92.48	104.770	4,859.46	-253.39	2,647.69	1,892,221.248	2,755,385.457	36.200290051	-107.723876842
6,088.00	90.23	109.250	4,857.24	-280.87	2,737.52	1,892,193.764	2,755,475.290	36.200214272	-107.723572467
6,183.00	90.41	115.300	4,856.71	-316.86	2,825.39	1,892,157.772	2,755,563.158	36.200115123	-107.723274785
6,277.00	91.31	120.140	4,855.29	-360.57	2,908.57	1,892,114.066	2,755,646.335	36.199994801	-107.722993036
6,372.00	89.20	123.350	4,854.87	-410.54	2,989.34	1,892,064.093	2,755,727.107	36.199857266	-107.722719463
6,466.00	90.82	128.930	4,854.86	-465.96	3,065.22	1,892,008.679	2,755,802.987	36.199704802	-107.722462493
6,560.00	90.94	132.890	4,853.41	-527.49	3,136.24	1,891,947.141	2,755,874.003	36.199535527	-107.722222030
6,655.00	90.45	135.350	4,852.26	-593.62	3,204.43	1,891,881.016	2,755,942.192	36.199353659	-107.721991173
6,749.00	90.31	134.370	4,851.64	-659.92	3,271.06	1,891,814.713	2,756,008.819	36.199171308	-107.721765606
6,844.00	90.12	134.950	4,851.28	-726.70	3,338.63	1,891,747.938	2,756,076.391	36.198987658	-107.721536843
6,938.00	89.92	134.640	4,851.25	-792.93	3,405.33	1,891,681.709	2,756,143.096	36.198805508	-107.721311016
7,032.00	89.81	135.450	4,851.47	-859.45	3,471.75	1,891,615.189	2,756,209.511	36.198622562	-107.721086175
7,127.00	89.50	134.830	4,852.04	-926.78	3,538.76	1,891,547.852	2,756,276.520	36.198437366	-107.720859325
7,221.00	90.41	136.070	4,852.11	-993.77	3,604.70	1,891,480.866	2,756,342.462	36.198253139	-107.720636091
7,315.00	90.91	136.240	4,851.03	-1,061.56	3,669.81	1,891,413.077	2,756,407.572	36.198066707	-107.720415681
7,409.00	91.84	137.660	4,848.77	-1,130.23	3,733.96	1,891,344.408	2,756,471.719	36.197877862	-107.720198539
7,503.00	91.60	137.830	4,845.95	-1,199.77	3,797.14	1,891,274.865	2,756,534.899	36.197686617	-107.7219984680
7,597.00	91.08	135.170	4,843.75	-1,267.93	3,861.82	1,891,206.705	2,756,599.581	36.197499167	-107.7219765726
7,691.00	91.07	132.600	4,841.99	-1,333.08	3,929.55	1,891,141.560	2,756,667.312	36.197319989	-107.7219536426
7,786.00	90.78	132.540	4,840.46	-1,397.34	3,999.50	1,891,077.302	2,756,737.265	36.197143240	-107.7219299591
7,880.00	90.41	133.610	4,839.48	-1,461.53	4,068.16	1,891,013.109	2,756,805.924	36.196966674	-107.7219067146
7,975.00	90.13	133.370	4,839.03	-1,526.91	4,137.08	1,890,947.728	2,756,874.845	36.196786843	-107.7218833819



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,069.00	89.79	132.580	4,839.10	-1,590.99	4,205.86	1,890,883.651	2,756,943.619	36.196610594	-107.718600982
8,163.00	89.83	132.930	4,839.41	-1,654.80	4,274.88	1,890,819.838	2,757,012.639	36.196435069	-107.718367314
8,257.00	90.64	134.300	4,839.03	-1,719.64	4,342.93	1,890,754.999	2,757,080.691	36.196256728	-107.718136930
8,352.00	91.80	136.100	4,837.00	-1,787.03	4,409.85	1,890,687.609	2,757,147.613	36.196071383	-107.717910391
8,446.00	91.50	135.820	4,834.30	-1,854.57	4,475.17	1,890,620.065	2,757,212.930	36.195885619	-107.717689288
8,540.00	89.00	135.150	4,833.89	-1,921.60	4,541.07	1,890,553.043	2,757,278.827	36.195701288	-107.717466222
8,635.00	90.59	136.520	4,834.23	-1,989.74	4,607.25	1,890,484.901	2,757,345.012	36.195513876	-107.717242186
8,729.00	92.80	138.750	4,831.44	-2,059.15	4,670.56	1,890,415.487	2,757,408.319	36.195322982	-107.717027908
8,824.00	90.60	134.120	4,828.63	-2,127.93	4,735.98	1,890,346.706	2,757,473.741	36.195133817	-107.716806460
8,918.00	90.43	134.490	4,827.78	-2,193.59	4,803.25	1,890,281.052	2,757,541.008	36.194953236	-107.716578750
9,012.00	90.31	134.230	4,827.17	-2,259.31	4,870.45	1,890,215.332	2,757,608.213	36.194772475	-107.716351251
9,106.00	90.03	132.760	4,826.89	-2,324.00	4,938.64	1,890,150.635	2,757,676.401	36.194594520	-107.716120415
9,201.00	90.86	135.180	4,826.16	-2,389.95	5,007.00	1,890,084.686	2,757,744.765	36.194413124	-107.715888990
9,295.00	90.60	135.000	4,824.96	-2,456.52	5,073.36	1,890,018.119	2,757,811.123	36.194230037	-107.715664367
9,389.00	90.50	133.780	4,824.06	-2,522.27	5,140.53	1,889,952.367	2,757,878.290	36.194049185	-107.715436999
9,483.00	90.70	136.060	4,823.07	-2,588.64	5,207.08	1,889,886.000	2,757,944.843	36.193866646	-107.715211718
9,578.00	90.75	135.160	4,821.87	-2,656.52	5,273.53	1,889,818.120	2,758,011.293	36.193679950	-107.714986792
9,672.00	90.08	134.010	4,821.19	-2,722.50	5,340.48	1,889,752.138	2,758,078.237	36.193498468	-107.714760183
9,766.00	91.93	136.960	4,819.54	-2,789.51	5,406.36	1,889,685.131	2,758,144.120	36.193314171	-107.714537177
9,860.00	92.07	135.810	4,816.26	-2,857.52	5,471.16	1,889,617.119	2,758,208.922	36.193127116	-107.714317843
9,955.00	92.45	136.030	4,812.51	-2,925.71	5,537.20	1,889,548.927	2,758,274.958	36.192939564	-107.714094324
10,049.00	88.82	135.370	4,811.47	-2,992.97	5,602.83	1,889,481.668	2,758,340.594	36.192754575	-107.713872161
10,143.00	88.66	134.640	4,813.54	-3,059.43	5,669.28	1,889,415.211	2,758,407.039	36.192571785	-107.713647250
10,237.00	89.15	135.490	4,815.33	-3,125.96	5,735.66	1,889,348.680	2,758,473.419	36.192388795	-107.713422565
10,332.00	89.58	135.290	4,816.39	-3,193.59	5,802.37	1,889,281.054	2,758,540.131	36.192202792	-107.713196759
10,426.00	89.13	135.860	4,817.45	-3,260.71	5,868.16	1,889,213.927	2,758,605.923	36.192018163	-107.712974066
10,521.00	89.41	135.790	4,818.66	-3,328.84	5,934.36	1,889,145.797	2,758,672.119	36.191830778	-107.712750015
10,616.00	89.72	135.180	4,819.38	-3,396.58	6,000.96	1,889,078.059	2,758,738.721	36.191644465	-107.712524586
10,710.00	89.86	135.690	4,819.72	-3,463.55	6,066.92	1,889,011.089	2,758,804.681	36.191460266	-107.712301327
10,804.00	89.79	135.400	4,820.01	-3,530.65	6,132.76	1,888,943.992	2,758,870.513	36.191275719	-107.712078505
10,899.00	89.56	135.360	4,820.55	-3,598.27	6,199.48	1,888,876.374	2,758,937.240	36.191089737	-107.711852654
10,993.00	89.33	135.450	4,821.46	-3,665.20	6,265.48	1,888,809.441	2,759,003.234	36.190905638	-107.711629288
11,087.00	91.99	135.890	4,820.38	-3,732.43	6,331.15	1,888,742.211	2,759,068.909	36.190720724	-107.711407000
11,182.00	91.39	135.970	4,817.57	-3,800.66	6,397.20	1,888,673.985	2,759,134.956	36.190533071	-107.711183460
11,276.00	90.66	136.420	4,815.89	-3,868.49	6,462.25	1,888,606.157	2,759,200.012	36.190346515	-107.710963276
11,371.00	89.92	136.100	4,815.41	-3,937.12	6,527.94	1,888,537.522	2,759,265.693	36.190157741	-107.710740982
11,465.00	89.83	133.800	4,815.62	-4,003.53	6,594.46	1,888,471.117	2,759,332.214	36.189975088	-107.710515829
11,559.00	90.89	134.030	4,815.03	-4,068.72	6,662.17	1,888,405.922	2,759,399.926	36.189795755	-107.710286636
11,653.00	90.92	134.260	4,813.54	-4,134.18	6,729.61	1,888,340.461	2,759,467.370	36.189615694	-107.710058355
11,747.00	90.53	133.940	4,812.35	-4,199.59	6,797.11	1,888,275.051	2,759,534.868	36.189435769	-107.709829891
11,841.00	92.05	132.740	4,810.24	-4,264.09	6,865.46	1,888,210.556	2,759,603.213	36.189258355	-107.709598555
11,935.00	92.04	131.660	4,806.88	-4,327.19	6,935.05	1,888,147.455	2,759,672.803	36.189084768	-107.709362993
12,029.00	92.10	131.680	4,803.49	-4,389.64	7,005.22	1,888,085.001	2,759,742.974	36.188912954	-107.709125461
12,123.00	92.37	131.990	4,799.82	-4,452.29	7,075.20	1,888,022.353	2,759,812.957	36.188740605	-107.708888569
12,218.00	91.29	133.360	4,796.79	-4,516.65	7,145.01	1,887,957.993	2,759,882.763	36.188563557	-107.708652283
12,312.00	91.21	133.490	4,794.74	-4,581.25	7,213.26	1,887,893.393	2,759,951.016	36.188385852	-107.708421262
12,406.00	89.73	135.570	4,793.96	-4,647.16	7,280.26	1,887,827.480	2,760,018.019	36.188204545	-107.708194485
12,501.00	90.16	134.390	4,794.06	-4,714.32	7,347.46	1,887,760.330	2,760,085.216	36.188019839	-107.707967057
12,595.00	90.17	133.790	4,793.79	-4,779.72	7,414.98	1,887,694.926	2,760,152.731	36.187839929	-107.707738546
12,689.00	89.99	133.930	4,793.65	-4,844.85	7,482.75	1,887,629.794	2,760,220.508	36.187660763	-107.707509146
12,784.00	89.85	131.670	4,793.79	-4,909.39	7,552.45	1,887,565.251	2,760,290.208	36.187483210	-107.707273229
12,878.00	91.58	135.060	4,792.61	-4,973.92	7,620.77	1,887,500.724	2,760,358.527	36.187305703	-107.707041989
12,973.00	92.35	135.330	4,789.36	-5,041.28	7,687.68	1,887,433.361	2,760,425.433	36.187120411	-107.706815553
13,067.00	92.86	135.010	4,785.08	-5,107.88	7,753.88	1,887,366.766	2,760,491.635	36.186937228	-107.706591502



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,162.00	91.47	135.910	4,781.49	-5,175.54	7,820.46	1,887,299.104	2,760,558.218	36.186751115	-107.706366163
13,256.00	90.31	133.920	4,780.03	-5,241.90	7,887.02	1,887,232.747	2,760,624.773	36.186568588	-107.706140919
13,350.00	89.86	136.910	4,779.90	-5,308.84	7,953.00	1,887,165.808	2,760,690.750	36.186384460	-107.705917634
13,444.00	90.23	136.590	4,779.82	-5,377.30	8,017.40	1,887,097.341	2,760,755.156	36.186196142	-107.705699678
13,538.00	90.31	135.440	4,779.38	-5,444.94	8,082.68	1,887,029.708	2,760,820.435	36.186010112	-107.705478766
13,633.00	90.61	135.140	4,778.62	-5,512.45	8,149.51	1,886,962.196	2,760,887.266	36.185824408	-107.705252590
13,727.00	91.27	134.570	4,777.07	-5,578.74	8,216.14	1,886,895.906	2,760,953.893	36.185642061	-107.705027106
13,821.00	89.07	137.360	4,776.79	-5,646.31	8,281.47	1,886,828.340	2,761,019.221	36.185456210	-107.704806028
13,915.00	90.33	138.220	4,777.29	-5,715.93	8,344.62	1,886,758.718	2,761,082.372	36.185264723	-107.704592338
14,010.00	91.38	138.970	4,775.87	-5,787.17	8,407.44	1,886,687.473	2,761,145.194	36.185068775	-107.704379770
14,105.00	90.47	137.010	4,774.34	-5,857.75	8,471.01	1,886,616.899	2,761,208.762	36.184874669	-107.704164674
14,199.00	90.74	136.150	4,773.34	-5,926.02	8,535.61	1,886,548.628	2,761,273.368	36.184686885	-107.703946052
14,294.00	91.30	136.640	4,771.65	-5,994.80	8,601.12	1,886,479.849	2,761,338.877	36.184497702	-107.703724372
14,388.00	90.41	135.320	4,770.25	-6,062.38	8,666.44	1,886,412.264	2,761,404.189	36.184311798	-107.703503355
14,482.00	91.84	136.710	4,768.40	-6,130.00	8,731.70	1,886,344.645	2,761,469.453	36.184125804	-107.703282500
14,576.00	89.55	134.930	4,767.26	-6,197.40	8,797.20	1,886,277.245	2,761,534.951	36.183940408	-107.703060853
14,670.00	89.79	133.650	4,767.80	-6,263.04	8,864.48	1,886,211.609	2,761,602.235	36.183759849	-107.702833148
14,764.00	90.54	133.230	4,767.53	-6,327.67	8,932.73	1,886,146.976	2,761,670.487	36.183582044	-107.702602160
14,859.00	91.66	132.940	4,765.71	-6,392.55	9,002.10	1,886,082.096	2,761,739.855	36.183403555	-107.702367391
14,952.00	88.93	135.020	4,765.23	-6,457.12	9,069.01	1,886,017.527	2,761,806.765	36.183225928	-107.702140951
15,046.00	90.09	135.690	4,766.04	-6,524.00	9,135.06	1,885,950.652	2,761,872.816	36.183041972	-107.701917434
15,140.00	89.54	134.340	4,766.34	-6,590.48	9,201.51	1,885,884.169	2,761,939.264	36.182859088	-107.701692570
15,234.00	89.75	133.440	4,766.92	-6,655.65	9,269.25	1,885,819.003	2,762,007.005	36.182679818	-107.701463320
15,328.00	90.53	133.020	4,766.69	-6,720.03	9,337.74	1,885,754.621	2,762,075.494	36.182502697	-107.701231536
15,422.00	91.04	135.800	4,765.40	-6,785.80	9,404.88	1,885,688.854	2,762,142.630	36.182321777	-107.701004342
15,516.00	91.48	135.820	4,763.34	-6,853.18	9,470.38	1,885,621.469	2,762,208.135	36.182136420	-107.700782680
15,610.00	92.10	134.060	4,760.40	-6,919.54	9,536.89	1,885,555.106	2,762,274.637	36.181953863	-107.700557639
15,704.00	88.70	134.190	4,759.74	-6,984.98	9,604.35	1,885,489.672	2,762,342.101	36.181773856	-107.700329336
15,798.00	88.05	132.470	4,762.41	-7,049.45	9,672.70	1,885,425.198	2,762,410.447	36.181596481	-107.700098039
15,892.00	89.51	134.060	4,764.41	-7,113.86	9,741.13	1,885,360.792	2,762,478.877	36.181419291	-107.699866458
15,986.00	90.41	133.270	4,764.48	-7,178.76	9,809.12	1,885,295.891	2,762,546.874	36.181240746	-107.699636347
16,080.00	89.15	134.600	4,764.84	-7,243.98	9,876.81	1,885,230.674	2,762,614.563	36.181061330	-107.699407285
16,175.00	89.35	135.800	4,766.08	-7,311.38	9,943.75	1,885,163.272	2,762,681.496	36.180875916	-107.699180794
16,269.00	89.88	135.370	4,766.71	-7,378.52	10,009.53	1,885,096.131	2,762,747.280	36.180691222	-107.698958196
16,364.00	90.46	134.820	4,766.43	-7,445.81	10,076.59	1,885,028.845	2,762,814.342	36.180506127	-107.698731268
16,458.00	89.79	137.950	4,766.23	-7,513.85	10,141.43	1,884,960.799	2,762,879.176	36.180318950	-107.698511898
16,553.00	90.29	136.920	4,766.16	-7,583.82	10,205.69	1,884,890.832	2,762,943.435	36.180126497	-107.698294483
16,646.00	90.72	135.970	4,765.34	-7,651.21	10,269.76	1,884,823.437	2,763,007.513	36.179941112	-107.698077672
16,740.00	91.25	135.300	4,763.72	-7,718.40	10,335.48	1,884,756.247	2,763,073.230	36.179756282	-107.697855307
16,834.00	91.91	138.570	4,761.13	-7,787.04	10,399.63	1,884,687.609	2,763,137.382	36.179567480	-107.697638251
16,928.00	92.02	137.570	4,757.91	-7,856.93	10,462.41	1,884,617.719	2,763,200.157	36.179375242	-107.697425870
17,023.00	92.89	137.350	4,753.84	-7,926.86	10,526.58	1,884,547.787	2,763,264.328	36.179182886	-107.697208763
17,117.00	93.51	136.570	4,748.59	-7,995.46	10,590.63	1,884,479.193	2,763,328.382	36.178994203	-107.696992041
17,211.00	94.24	136.920	4,742.24	-8,063.76	10,654.90	1,884,410.889	2,763,392.648	36.178806317	-107.696774605
17,304.00	94.56	136.340	4,735.10	-8,131.17	10,718.57	1,884,343.484	2,763,456.323	36.178620901	-107.696559167
17,341.00	94.72	136.190	4,732.11	-8,157.81	10,744.07	1,884,316.837	2,763,481.818	36.178547602	-107.696472905
17,404.00	94.72	136.190	4,726.93	-8,203.12	10,787.53	1,884,271.527	2,763,525.283	36.178422965	-107.696325843



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rodeo Unit #506H
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 #506H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Aug2923v16

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
421.00	420.98	1.42	-2.88	MWD surveys
3,014.80	2,820.45	-72.10	799.61	9 5/8" Casing Shoe @ 3014.80 MD 2820.45 TVD
5,443.10	4,816.70	-171.74	2,109.49	FTP @ 5443.10 MD 4816.70 TVD
7,046.00	4,851.52	-869.42	3,481.58	2371 FNL 2211 FEL @ 7046.00 MD 4851.52 TVD
17,302.70	4,735.21	-8,130.23	10,717.68	LTP @ 17302.70 MD 4735.21 TVD
17,341.00	4,732.11	-8,157.81	10,744.07	330 ppd/Survey @ 17341.00 MD 4732.11 TVD
17,404.00	4,726.93	-8,203.12	10,787.53	Survey proj. to 17404 MD 4726.93 TVD 854 FSL 196 FEL

WELL NAME: **RODEO UNIT 506H**
OBJECTIVE: **Drill, complete, and equip single lateral in the Mancos-I formation**

API Number: **30-045-38324**
AFE Number: **DV03106**
ER Well Number: **NM08336.01**

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 **1,481** ft FNL **391** ft FEL
BH Location: **32-23N-08W** Sec-Twn- Rng **926** ft FSL **234** 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 506H is furthest from the location entrance and the existing facilities and directly across from the 510H well.

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	377	13.375	54.5	J-55	BTC	0	377
Intermediate	12.250	2,958	9.625	36.0	J-55	LTC	0	2,958
Production	8.500	17,394	5.500	17.0	P-110	LTC	0	17,394

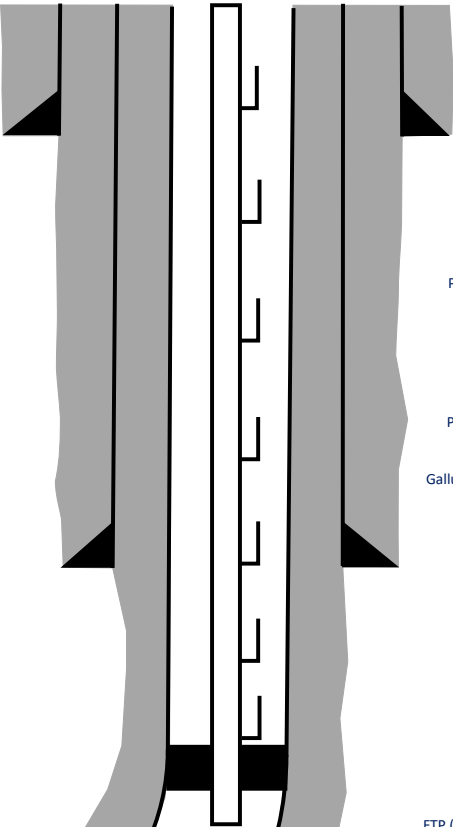
CEMENT PROPERTIES SUMMARY:

	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	322
Inter. (Lead)	10 Type III:P	12.5	2.14	12.05	0.3627	70%	0	594
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,414	137
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	549
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	4,147	2,130

COMPLETION / PRODUCTION SUMMARY:

Frac: **10562**
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**

QUICK REFERENCE	
Sur TD (MD)	377 ft
Int TD (MD)	2,958 ft
KOP (MD)	5,010 ft
KOP (TVD)	4,562 ft
Target (TVD)	4,870 ft
Curve BUR	10 °/100 ft
POE (MD)	6,692 ft
TD (MD)	17,394 ft
Lat Len (ft)	10,662 ft



Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	571	571
Kirtland	657	657
Fruitland	861	861
Pictured Cliffs	1,168	1,168
Lewis	1,327	1,328
Chacra	1,586	1,596
Cliff House	2,656	2,810
Menefee	2,674	2,830
Point Lookout	3,648	3,655
Mancos	3,814	4,147
Gallup (MNCS_A)	4,139	4,522
MNCS_B	4,224	4,620
MNCS_C	4,324	4,736
MNCS_Cms	4,373	4,792
MNCS_D	4,492	4,930
MNCS_E	4,642	5,108
MNCS_F	4,699	5,187
MNCS_G	4,775	5,317
MNCS_H	4,829	5,431
MNCS_I	4,867	5,556
LP1 TARGET	4,878	5,675
FTP (LP2) TARGET	4,870	6,692
LTP (TD) TARGET	4,782	17,354

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 308007

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 308007
	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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CONDITIONS

Action 308007

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 308007
	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