

District I
1625 N. French Drive, 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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

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

☐ AMENDED REPORT

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: Lacey Granillo Date: 7/13/19
Printed Name: Lacey Granillo
E-mail Address: lgranillo@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 17, 2018
Date of Survey: AUGUST 24, 2017

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35869	*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 321253	*Property Name RODEO UNIT	*Well Number 508H
*OGRID No. 372286	*Operator Name ENDURING RESOURCES, LLC	*Elevation 6883'

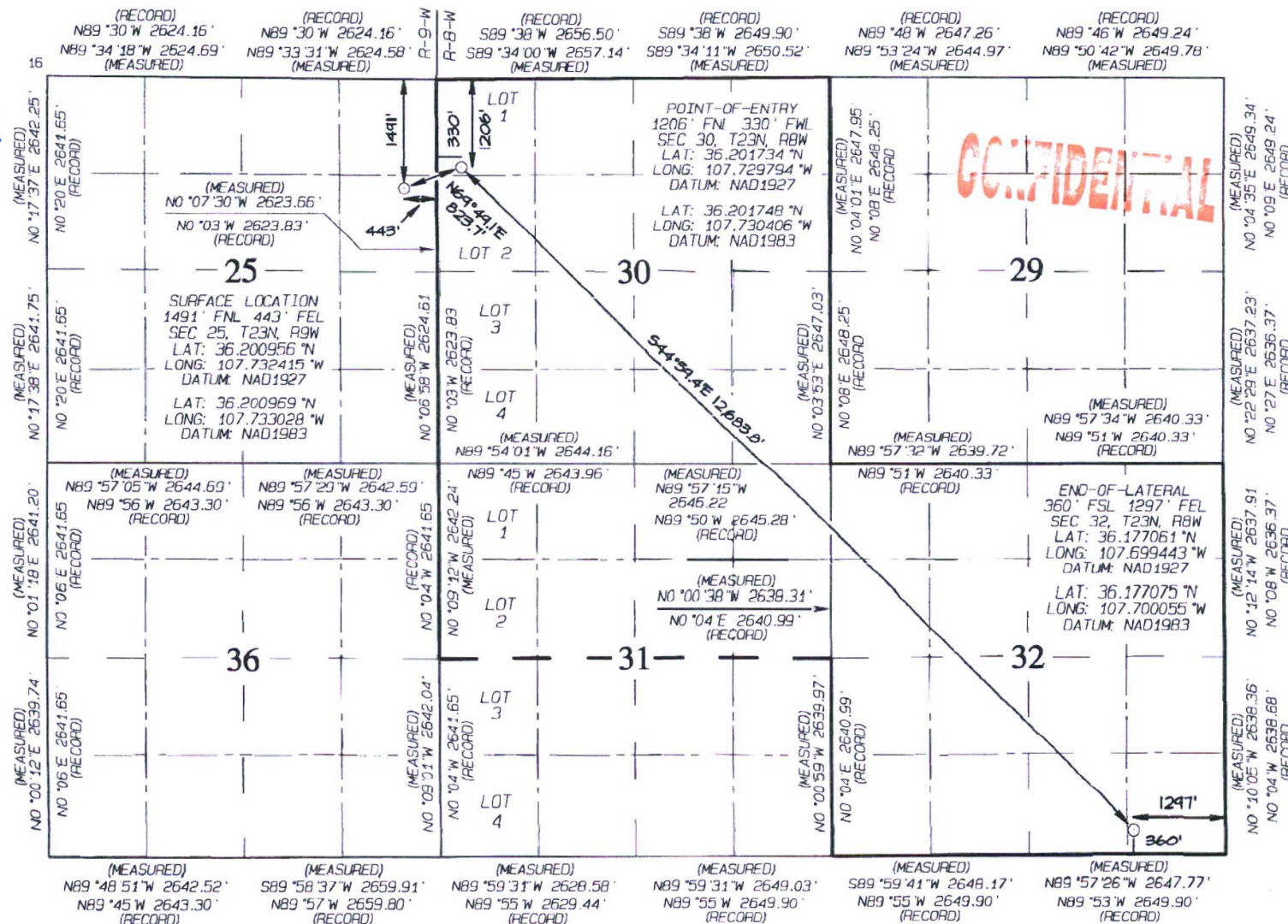
10 Surface Location

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		1491	NORTH	443	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		360	SOUTH	1297	EAST	SAN JUAN
Dedicated Acres 1604.85					Entire Section 30 N/2 - Section 31 Entire Section 32		Joint or Infill Consolidation Code Order No. R-14313		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





Well: Rodeo Unit #508H
Site: Rodeo Unit
Project: San Juan County, New Mexico NAD83 NM W
Design: Surveys Original Hole
Rig: Axtec 1000

ANNOTATIONS SURVEYS

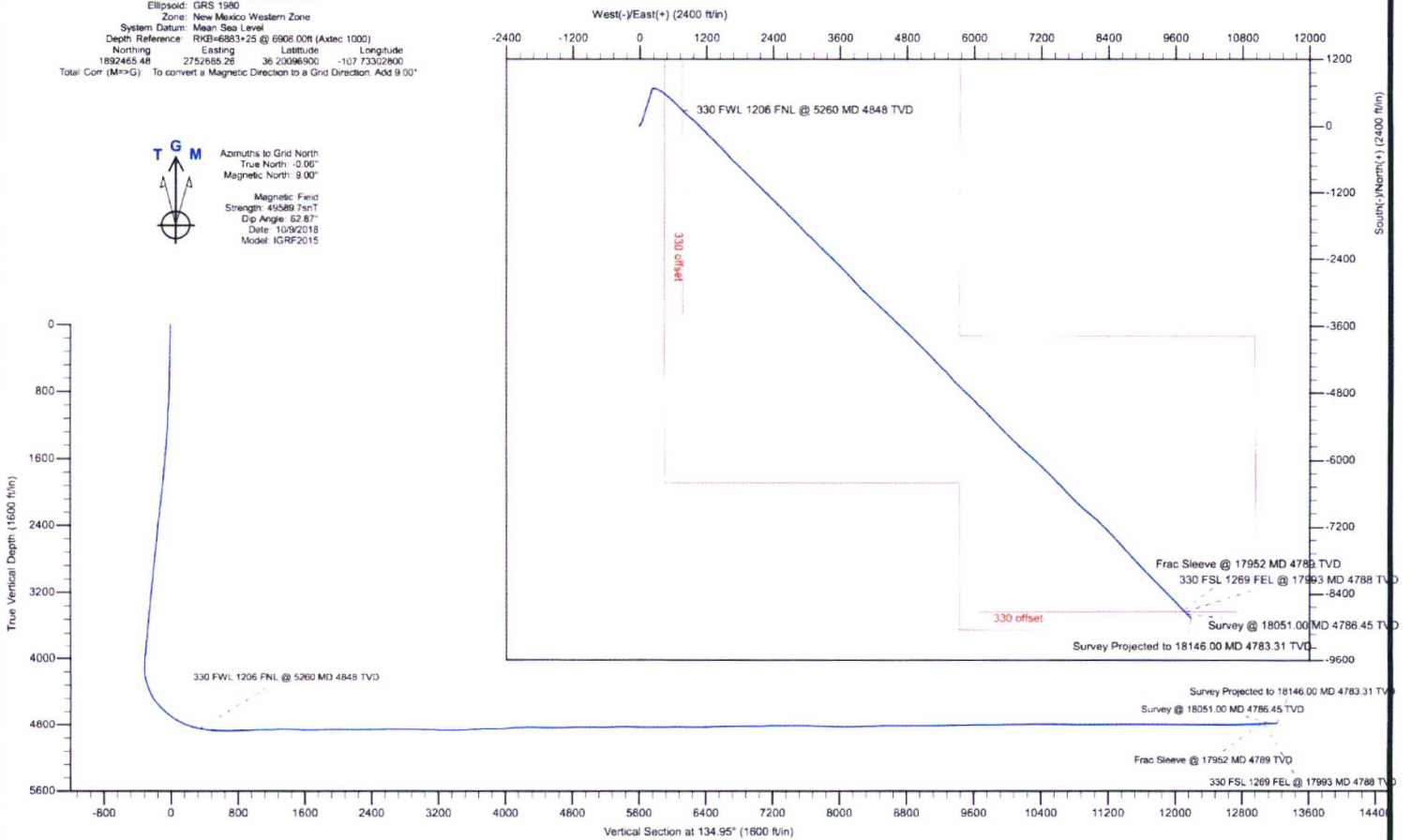
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
324.00	2.04	283.56	323.93	1.35	-5.61	-4.92	MWD surveys
5260.00	77.82	134.97	4647.83	284.23	773.15	346.37	330 FWL 1206 FNL @ 5260 MD 4848 TVD
17952.00	91.61	136.81	4789.49	-8658.29	9740.31	13030.22	Frac Sleeve @ 17952 MD 4789 TVD
17993.00	91.73	136.89	4788.29	-8715.19	9768.33	13071.18	330 FSL 1269 FEL @ 17993 MD 4788 TVD
18051.00	91.90	137.01	4786.45	-8758.56	9807.91	13129.12	Survey @ 18051.00 MD 4786.45 TVD
18146.00	91.90	137.01	4783.31	-8828.01	9872.65	13224.00	Survey Projected to 18146.00 MD 4783.31 TVD

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6983+25 @ 6906.00ft (Axtec 1000)
Northing: 1892465.48 Easting: 2752685.28 Latitude: 36.20096900 Longitude: -107.73322800
Total Corr (Mm>G): To convert a Magnetic Direction to a Grid Direction Add 9.00°



Azimuths to Grid North
True North: 0.00°
Magnetic North: 9.00°

Magnetic Field
Strength: 49589.7 nT
Dip Angle: 62.87°
Date: 10/9/2018
Model: IGRF2015



CONFIDENTIAL



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Rodeo Unit
Well: Rodeo Unit #508H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Rodeo Unit #508H
TVD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
MD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

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		
Site Position:		Northing:	1,892,465.48 usft
From:	Lat/Long	Easting:	2,752,685.27 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.20096900
		Longitude:	-107.73302800
		Grid Convergence:	0.06 °

Well	Rodeo Unit #508H, Surf loc: 1491 FNL 443 FEL Section 25-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,892,465.48 usft	Latitude:	36.20096900
	+E/-W	0.00 ft	Easting:	2,752,685.27 usft	Longitude:	-107.73302800
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)	
	IGRF2015	10/9/2018	9.05	62.87	49,589.69185453	

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	134.95	

Survey Program	Date 12/7/2018				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
324.00	2,383.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
2,478.00	18,051.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
18,146.00	18,146.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
324.00	2.04	283.56	323.93	1.35	-5.61	-4.92	0.63	0.63	0.00	
MWD surveys										
416.00	1.65	332.96	415.89	2.92	-7.80	-7.58	1.72	-0.42	53.70	
506.00	2.94	24.24	505.82	6.18	-7.44	-9.63	2.56	1.43	56.98	
599.00	4.73	37.56	598.61	11.39	-4.13	-10.97	2.14	1.92	14.32	
689.00	6.89	32.82	688.15	18.87	1.06	-12.58	2.46	2.40	-5.27	
780.00	9.79	32.05	778.17	30.02	8.13	-15.45	3.19	3.19	-0.85	
872.00	11.36	29.17	868.61	44.56	16.70	-19.66	1.80	1.71	-3.13	



Survey Report



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Project: San Juan County, New Mexico NAD83 NM W
Site: Rodeo Unit
Well: Rodeo Unit #508H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Rodeo Unit #508H
TVD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
MD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

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)
965.00	10.78	27.19	959.88	60.29	25.13	-24.81	0.75	-0.62	-2.13
1,059.00	10.18	26.22	1,052.31	75.56	32.82	-30.16	0.67	-0.64	-1.03
1,154.00	9.96	25.03	1,145.85	90.54	40.01	-35.65	0.32	-0.23	-1.25
1,248.00	10.73	19.51	1,238.32	106.15	46.37	-42.18	1.33	0.82	-5.87
1,343.00	11.28	18.60	1,331.57	123.30	52.29	-50.10	0.61	0.58	-0.96
1,438.00	10.57	17.99	1,424.85	140.39	57.94	-58.18	0.76	-0.75	-0.64
1,533.00	9.58	17.77	1,518.38	156.20	63.04	-65.74	1.04	-1.04	-0.23
1,627.00	11.13	15.63	1,610.85	172.39	67.88	-73.75	1.70	1.65	-2.28
1,722.00	11.65	15.12	1,703.98	190.48	72.85	-83.02	0.56	0.55	-0.54
1,816.00	11.59	14.17	1,796.05	208.80	77.64	-92.57	0.21	-0.06	-1.01
1,911.00	11.15	13.70	1,889.19	226.98	82.15	-102.22	0.47	-0.46	-0.49
2,005.00	10.71	12.98	1,981.48	244.32	86.26	-111.56	0.49	-0.47	-0.77
2,100.00	12.59	16.25	2,074.52	262.86	91.14	-121.20	2.10	1.98	3.44
2,194.00	13.31	18.21	2,166.13	282.98	97.39	-130.99	0.90	0.77	2.09
2,289.00	13.42	19.12	2,258.56	303.78	104.42	-140.72	0.25	0.12	0.96
2,383.00	13.85	18.79	2,349.91	324.74	111.62	-150.43	0.46	0.46	-0.35
2,478.00	14.55	19.68	2,442.01	346.74	119.30	-160.54	0.77	0.74	0.94
2,572.00	14.69	19.88	2,532.96	369.06	127.33	-170.63	0.16	0.15	0.21
2,667.00	14.07	19.17	2,624.99	391.30	135.21	-180.75	0.68	-0.65	-0.75
2,761.00	13.11	18.83	2,716.35	412.18	142.41	-190.42	1.02	-1.02	-0.36
2,782.00	12.97	18.94	2,736.81	416.67	143.94	-192.50	0.68	-0.67	0.52
2,887.00	12.99	17.21	2,839.13	439.08	151.26	-203.16	0.37	0.02	-1.65
2,981.00	12.55	15.54	2,930.80	459.02	157.12	-213.09	0.61	-0.47	-1.78
3,076.00	12.08	22.59	3,023.62	478.14	163.70	-221.94	1.66	-0.49	7.42
3,171.00	11.90	18.65	3,116.55	496.60	170.65	-230.06	0.88	-0.19	-4.15
3,265.00	11.73	17.49	3,208.56	514.89	176.63	-238.76	0.31	-0.18	-1.23
3,360.00	11.76	16.73	3,301.57	533.37	182.31	-247.80	0.17	0.03	-0.80
3,454.00	11.45	15.52	3,393.65	551.54	187.57	-256.91	0.42	-0.33	-1.29
3,549.00	10.83	14.32	3,486.86	569.27	192.30	-266.09	0.70	-0.65	-1.26
3,643.00	10.26	12.89	3,579.27	585.99	196.35	-275.03	0.67	-0.61	-1.52
3,738.00	9.84	18.25	3,672.82	601.95	200.78	-283.17	1.08	-0.44	5.64
3,832.00	9.88	19.12	3,765.43	617.19	205.94	-290.29	0.16	0.04	0.93
3,926.00	9.00	16.19	3,858.16	631.87	210.63	-297.35	1.07	-0.94	-3.12
4,020.00	8.10	14.44	3,951.11	645.35	214.33	-304.25	1.00	-0.96	-1.86
4,083.00	7.52	11.61	4,013.53	653.69	216.27	-308.76	1.10	-0.92	-4.49
4,115.00	7.13	9.25	4,045.26	657.70	217.01	-311.07	1.54	-1.22	-7.38
4,147.00	6.80	17.51	4,077.03	661.46	217.90	-313.11	3.29	-1.03	25.81
4,178.00	7.28	40.07	4,107.80	664.72	219.71	-314.12	8.99	1.55	72.77
4,210.00	8.94	55.56	4,139.48	667.68	223.07	-313.83	8.53	5.19	48.41
4,241.00	11.41	66.70	4,170.00	670.25	227.87	-312.25	10.15	7.97	35.94
4,273.00	14.13	77.35	4,201.21	672.36	234.59	-308.99	11.21	8.50	33.28
4,304.00	16.48	84.98	4,231.11	673.57	242.67	-304.13	9.97	7.58	24.61
4,335.00	18.78	91.02	4,260.65	673.87	252.04	-297.71	9.47	7.42	19.48



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Rodeo Unit
Well: Rodeo Unit #508H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Rodeo Unit #508H
TVD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
MD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

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)
4,367.00	20.85	94.79	4,290.76	673.30	262.87	-289.64	7.60	6.47	11.78
4,398.00	22.59	99.22	4,319.56	671.89	274.24	-280.59	7.71	5.61	14.29
4,430.00	24.79	101.62	4,348.86	669.55	286.88	-270.00	7.51	6.88	7.50
4,461.00	26.69	105.19	4,376.78	666.42	299.97	-258.52	7.91	6.13	11.52
4,492.00	28.51	107.76	4,404.26	662.34	313.74	-245.89	7.01	5.87	8.29
4,524.00	30.49	111.09	4,432.11	657.08	328.59	-231.67	8.03	6.19	10.41
4,556.00	32.73	113.32	4,459.36	650.74	344.11	-216.21	7.89	7.00	6.97
4,587.00	35.02	115.49	4,485.10	643.59	359.83	-200.03	8.35	7.39	7.00
4,618.00	37.54	117.81	4,510.09	635.35	376.22	-182.61	9.26	8.13	7.48
4,650.00	39.70	120.03	4,535.09	625.69	393.70	-163.42	8.02	6.75	6.94
4,681.00	41.85	122.54	4,558.56	615.17	410.99	-143.75	8.72	6.94	8.10
4,713.00	43.97	125.09	4,582.00	603.04	429.08	-122.37	8.56	6.63	7.97
4,744.00	45.77	127.14	4,603.97	590.15	446.74	-100.76	7.45	5.81	6.61
4,776.00	47.83	128.61	4,625.88	575.82	465.15	-77.62	7.26	6.44	4.59
4,807.00	50.54	131.02	4,646.14	560.80	483.16	-54.25	10.54	8.74	7.77
4,839.00	52.59	133.53	4,666.03	543.93	501.70	-29.22	8.88	6.41	7.84
4,870.00	54.93	133.77	4,684.36	526.67	519.79	-4.22	7.57	7.55	0.77
4,902.00	54.54	133.90	4,702.83	508.58	538.64	21.90	1.26	-1.22	0.41
4,933.00	55.75	133.39	4,720.55	491.02	557.04	47.33	4.13	3.90	-1.65
4,964.00	57.69	132.92	4,737.56	473.30	575.95	73.23	6.39	6.26	-1.52
4,996.00	60.47	132.81	4,754.00	454.63	596.07	100.66	8.69	8.69	-0.34
5,027.00	62.87	133.35	4,768.71	435.99	616.00	127.93	7.89	7.74	1.74
5,059.00	65.32	133.37	4,782.69	416.23	636.92	156.71	7.66	7.66	0.06
5,090.00	66.12	133.46	4,795.44	396.81	657.45	184.95	2.59	2.58	0.29
5,121.00	68.45	133.82	4,807.41	377.07	678.14	213.54	7.59	7.52	1.16
5,153.00	70.64	133.96	4,818.59	356.29	699.75	243.51	6.86	6.84	0.44
5,184.00	72.92	134.29	4,828.28	335.79	720.88	272.96	7.42	7.35	1.06
5,216.00	74.51	134.46	4,837.25	314.31	742.84	303.67	4.99	4.97	0.53
5,247.00	76.68	134.94	4,844.97	293.19	764.18	333.69	7.16	7.00	1.55
5,260.00	77.82	134.97	4,847.83	284.23	773.15	346.37	8.78	8.77	0.26
330 FWL 1206 FNL @ 5260 MD 4848 TVD									
5,278.00	79.40	135.02	4,851.39	271.75	785.63	364.02	8.78	8.77	0.26
5,310.00	83.07	134.58	4,856.26	249.47	808.06	395.64	11.55	11.47	-1.38
5,341.00	85.02	134.07	4,859.48	227.93	830.12	426.47	6.50	6.29	-1.65
5,436.00	87.38	133.89	4,865.78	162.11	898.33	521.24	2.49	2.48	-0.19
5,530.00	89.30	134.77	4,868.50	96.46	965.53	615.19	2.25	2.04	0.94
5,625.00	89.97	134.04	4,869.10	29.98	1,033.40	710.18	1.04	0.71	-0.77
5,719.00	90.78	133.82	4,868.49	-35.23	1,101.10	804.16	0.89	0.86	-0.23
5,814.00	91.67	133.63	4,866.46	-100.88	1,169.73	899.12	0.96	0.94	-0.20
5,908.00	92.35	133.17	4,863.16	-165.42	1,237.99	993.02	0.87	0.72	-0.49
6,002.00	91.11	133.62	4,860.32	-229.97	1,306.26	1,086.95	1.40	-1.32	0.48
6,097.00	89.77	134.86	4,859.59	-296.25	1,374.32	1,181.93	1.92	-1.41	1.31
6,191.00	91.15	135.98	4,858.84	-363.20	1,440.29	1,275.92	1.89	1.47	1.19
6,285.00	90.24	137.10	4,857.70	-431.42	1,504.94	1,369.88	1.54	-0.97	1.19



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Well: Rodeo Unit #508H
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Design: Surveys Original Hole

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

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)
6,380.00	89.09	136.96	4,858.25	-500.93	1,569.69	1,464.81	1.22	-1.21	-0.15
6,474.00	89.19	135.89	4,859.66	-569.02	1,634.48	1,558.77	1.14	0.11	-1.14
6,569.00	90.00	135.89	4,860.34	-637.23	1,700.60	1,653.75	0.85	0.85	0.00
6,663.00	91.34	136.31	4,859.24	-704.95	1,765.77	1,747.72	1.49	1.43	0.45
6,758.00	89.97	134.58	4,858.15	-772.64	1,832.42	1,842.71	2.32	-1.44	-1.82
6,852.00	90.50	134.49	4,857.77	-838.57	1,899.42	1,936.70	0.57	0.56	-0.10
6,946.00	91.48	134.67	4,856.14	-904.53	1,966.36	2,030.69	1.06	1.04	0.19
7,041.00	88.95	133.82	4,855.78	-970.81	2,034.41	2,125.67	2.81	-2.66	-0.89
7,136.00	89.56	133.72	4,857.02	-1,036.52	2,103.01	2,220.64	0.65	0.64	-0.11
7,230.00	90.77	133.10	4,856.75	-1,101.12	2,171.29	2,314.60	1.45	1.29	-0.66
7,325.00	91.82	132.35	4,854.60	-1,165.56	2,241.06	2,409.51	1.36	1.11	-0.79
7,419.00	90.34	134.53	4,852.83	-1,230.18	2,309.30	2,503.45	2.80	-1.57	2.32
7,513.00	90.40	134.42	4,852.22	-1,296.03	2,376.37	2,597.44	0.13	0.06	-0.12
7,608.00	91.28	135.08	4,850.83	-1,362.90	2,443.83	2,692.43	1.16	0.93	0.69
7,702.00	88.86	135.87	4,850.72	-1,429.91	2,509.74	2,786.42	2.71	-2.57	0.84
7,796.00	89.63	136.07	4,851.95	-1,497.49	2,575.06	2,880.40	0.85	0.82	0.21
7,891.00	90.98	135.73	4,851.45	-1,565.71	2,641.17	2,975.38	1.47	1.42	-0.36
7,985.00	86.80	136.19	4,853.27	-1,633.26	2,706.49	3,069.33	4.47	-4.45	0.49
8,080.00	86.49	135.07	4,858.83	-1,701.05	2,772.81	3,164.16	1.22	-0.33	-1.18
8,173.00	88.32	136.08	4,863.04	-1,767.39	2,837.84	3,257.05	2.25	1.97	1.09
8,267.00	90.50	135.93	4,864.01	-1,835.01	2,903.12	3,351.02	2.32	2.32	-0.16
8,362.00	91.75	135.63	4,862.14	-1,903.08	2,969.36	3,445.99	1.35	1.32	-0.32
8,456.00	93.23	134.91	4,858.06	-1,969.79	3,035.45	3,539.90	1.75	1.57	-0.77
8,550.00	91.51	136.09	4,854.17	-2,036.78	3,101.28	3,633.81	2.22	-1.83	1.26
8,645.00	92.13	135.40	4,851.15	-2,104.79	3,167.54	3,728.75	0.98	0.65	-0.73
8,740.00	92.63	133.85	4,847.21	-2,171.46	3,235.09	3,823.66	1.71	0.53	-1.63
8,834.00	91.84	134.98	4,843.54	-2,237.20	3,302.18	3,917.59	1.47	-0.84	1.20
8,929.00	92.33	134.26	4,840.09	-2,303.88	3,369.75	4,012.52	0.92	0.52	-0.76
9,023.00	93.82	133.65	4,835.04	-2,369.03	3,437.32	4,106.37	1.71	1.59	-0.65
9,071.00	94.19	132.75	4,831.69	-2,401.81	3,472.23	4,154.23	2.02	0.77	-1.88
9,167.00	91.52	133.79	4,826.91	-2,467.52	3,542.03	4,250.06	2.98	-2.78	1.08
9,261.00	88.29	135.04	4,827.07	-2,533.30	3,609.17	4,344.04	3.68	-3.44	1.33
9,355.00	88.62	135.51	4,829.60	-2,600.06	3,675.29	4,438.00	0.61	0.35	0.50
9,449.00	89.60	136.59	4,831.06	-2,667.72	3,740.52	4,531.97	1.55	1.04	1.15
9,543.00	91.61	138.54	4,830.07	-2,737.09	3,803.94	4,625.86	2.98	2.14	2.07
9,638.00	90.91	137.08	4,827.98	-2,807.46	3,867.72	4,720.71	1.70	-0.74	-1.54
9,732.00	90.54	134.73	4,826.79	-2,874.96	3,933.12	4,814.69	2.53	-0.39	-2.50
9,827.00	90.80	134.63	4,825.68	-2,941.75	4,000.67	4,909.68	0.29	0.27	-0.11
9,920.00	90.97	135.32	4,824.24	-3,007.47	4,066.45	5,002.67	0.76	0.18	0.74
10,015.00	89.93	133.26	4,823.50	-3,073.80	4,134.44	5,097.65	2.43	-1.09	-2.17
10,109.00	90.00	133.07	4,823.55	-3,138.11	4,203.00	5,191.61	0.22	0.07	-0.20
10,203.00	90.34	133.40	4,823.27	-3,202.50	4,271.49	5,285.56	0.50	0.36	0.35
10,298.00	90.77	133.55	4,822.35	-3,267.86	4,340.42	5,380.53	0.48	0.45	0.16



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Rodeo Unit
Well: Rodeo Unit #508H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Rodeo Unit #508H
TVD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
MD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

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)
10,392.00	89.60	132.65	4,822.05	-3,332.08	4,409.06	5,474.48	1.57	-1.24	-0.96
10,487.00	89.53	133.00	4,822.77	-3,396.66	4,478.73	5,569.41	0.38	-0.07	0.37
10,582.00	89.73	133.42	4,823.39	-3,461.70	4,547.97	5,664.36	0.49	0.21	0.44
10,676.00	89.80	133.51	4,823.77	-3,526.37	4,616.19	5,758.33	0.12	0.07	0.10
10,771.00	90.23	133.85	4,823.75	-3,591.98	4,684.90	5,853.31	0.58	0.45	0.36
10,865.00	90.74	134.45	4,822.95	-3,657.45	4,752.34	5,947.29	0.84	0.54	0.64
10,960.00	91.34	134.88	4,821.23	-3,724.22	4,819.90	6,042.27	0.78	0.63	0.45
11,054.00	90.60	134.41	4,819.64	-3,790.26	4,886.77	6,136.26	0.93	-0.79	-0.50
11,149.00	88.63	133.62	4,820.27	-3,856.27	4,955.08	6,231.24	2.23	-2.07	-0.83
11,243.00	88.52	133.48	4,822.61	-3,921.01	5,023.19	6,325.18	0.19	-0.12	-0.15
11,338.00	91.17	134.47	4,822.87	-3,986.97	5,091.55	6,420.16	2.98	2.79	1.04
11,433.00	93.30	135.41	4,819.16	-4,054.02	5,158.74	6,515.08	2.45	2.24	0.99
11,527.00	90.70	137.46	4,815.88	-4,122.08	5,223.47	6,608.98	3.52	-2.77	2.18
11,622.00	90.84	138.17	4,814.61	-4,192.46	5,287.26	6,703.85	0.76	0.15	0.75
11,715.00	91.65	138.46	4,812.59	-4,261.90	5,349.09	6,796.67	0.93	0.87	0.31
11,810.00	89.93	136.89	4,811.28	-4,332.13	5,413.05	6,891.54	2.45	-1.81	-1.65
11,905.00	89.93	135.90	4,811.39	-4,400.92	5,478.57	6,986.51	1.04	0.00	-1.04
11,999.00	90.74	136.78	4,810.84	-4,468.92	5,543.46	7,080.48	1.27	0.86	0.94
12,094.00	91.38	137.05	4,809.08	-4,538.29	5,608.34	7,175.41	0.73	0.67	0.28
12,189.00	89.93	135.90	4,808.00	-4,607.16	5,673.76	7,270.36	1.95	-1.53	-1.21
12,284.00	89.90	134.83	4,808.14	-4,674.76	5,740.50	7,365.36	1.13	-0.03	-1.13
12,378.00	90.67	134.69	4,807.67	-4,740.95	5,807.25	7,459.36	0.83	0.82	-0.15
12,473.00	91.21	135.30	4,806.11	-4,808.11	5,874.42	7,554.34	0.86	0.57	0.64
12,568.00	87.49	134.12	4,807.19	-4,874.93	5,941.92	7,649.32	4.11	-3.92	-1.24
12,663.00	87.14	134.44	4,811.64	-4,941.18	6,009.86	7,744.21	0.50	-0.37	0.34
12,757.00	88.26	135.28	4,815.41	-5,007.43	6,076.43	7,838.13	1.49	1.19	0.89
12,852.00	89.09	135.59	4,817.61	-5,075.10	6,143.07	7,933.10	0.93	0.87	0.33
12,947.00	90.00	135.92	4,818.36	-5,143.15	6,209.36	8,028.09	1.02	0.96	0.35
13,041.00	90.87	136.52	4,817.65	-5,211.01	6,274.39	8,122.06	1.12	0.93	0.64
13,136.00	91.58	136.90	4,815.62	-5,280.15	6,339.52	8,216.99	0.85	0.75	0.40
13,230.00	92.29	137.15	4,812.45	-5,348.88	6,403.56	8,310.88	0.80	0.76	0.27
13,324.00	90.67	134.94	4,810.02	-5,416.52	6,468.77	8,404.82	2.91	-1.72	-2.35
13,419.00	90.91	134.67	4,808.71	-5,483.46	6,536.17	8,499.81	0.38	0.25	-0.28
13,513.00	90.00	133.86	4,807.96	-5,549.07	6,603.48	8,593.80	1.30	-0.97	-0.86
13,608.00	90.34	133.97	4,807.68	-5,614.96	6,671.92	8,688.78	0.38	0.36	0.12
13,702.00	91.15	134.48	4,806.46	-5,680.51	6,739.27	8,782.77	1.02	0.86	0.54
13,797.00	91.00	133.42	4,804.68	-5,746.43	6,807.65	8,877.73	1.13	-0.16	-1.12
13,891.00	88.89	131.84	4,804.77	-5,810.09	6,876.81	8,971.65	2.80	-2.24	-1.68
13,986.00	89.33	132.03	4,806.24	-5,873.57	6,947.47	9,066.50	0.50	0.46	0.20
14,080.00	89.97	132.23	4,806.82	-5,936.63	7,017.18	9,160.39	0.71	0.68	0.21
14,175.00	90.47	132.73	4,806.45	-6,000.78	7,087.24	9,255.30	0.74	0.53	0.53
14,269.00	91.08	132.96	4,805.18	-6,064.70	7,156.16	9,349.23	0.69	0.65	0.24
14,364.00	91.65	133.26	4,802.92	-6,129.60	7,225.49	9,444.15	0.68	0.60	0.32



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Rodeo Unit
Well: Rodeo Unit #508H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Rodeo Unit #508H
TVD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
MD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

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)
14,458.00	92.55	133.26	4,799.47	-6,193.98	7,293.90	9,538.04	0.96	0.96	0.00
14,552.00	91.00	134.53	4,796.56	-6,259.12	7,361.60	9,631.98	2.13	-1.65	1.35
14,647.00	89.09	135.92	4,796.49	-6,326.55	7,428.51	9,726.97	2.49	-2.01	1.46
14,742.00	89.90	135.93	4,797.32	-6,394.80	7,494.59	9,821.95	0.85	0.85	0.01
14,836.00	91.75	137.47	4,795.97	-6,463.20	7,559.04	9,915.89	2.56	1.97	1.64
14,931.00	91.96	136.72	4,792.89	-6,532.74	7,623.68	10,010.77	0.82	0.22	-0.79
15,026.00	91.07	136.10	4,790.38	-6,601.53	7,689.16	10,105.71	1.14	-0.94	-0.65
15,120.00	90.47	134.63	4,789.12	-6,668.41	7,755.20	10,199.70	1.69	-0.64	-1.56
15,215.00	91.34	135.04	4,787.62	-6,735.38	7,822.55	10,294.68	1.01	0.92	0.43
15,309.00	90.17	133.05	4,786.38	-6,800.72	7,890.11	10,388.66	2.46	-1.24	-2.12
15,404.00	88.58	132.23	4,787.42	-6,865.07	7,959.99	10,483.57	1.88	-1.67	-0.86
15,499.00	88.72	131.71	4,789.65	-6,928.58	8,030.60	10,578.41	0.57	0.15	-0.55
15,593.00	89.09	131.27	4,791.45	-6,990.84	8,101.00	10,672.23	0.61	0.39	-0.47
15,688.00	89.36	133.21	4,792.74	-7,054.70	8,171.32	10,767.11	2.06	0.28	2.04
15,782.00	88.83	135.20	4,794.22	-7,120.22	8,238.69	10,861.08	2.19	-0.56	2.12
15,876.00	89.40	135.22	4,795.67	-7,186.93	8,304.91	10,955.07	0.61	0.61	0.02
15,971.00	90.30	135.36	4,795.92	-7,254.44	8,371.74	11,050.07	0.96	0.95	0.15
16,065.00	90.97	135.36	4,794.88	-7,321.32	8,437.79	11,144.06	0.71	0.71	0.00
16,159.00	90.27	136.35	4,793.86	-7,388.77	8,503.25	11,238.04	1.29	-0.74	1.05
16,254.00	89.66	136.30	4,793.92	-7,457.48	8,568.86	11,333.01	0.64	-0.64	-0.05
16,349.00	90.81	137.68	4,793.53	-7,526.94	8,633.65	11,427.95	1.89	1.21	1.45
16,443.00	89.40	137.62	4,793.36	-7,596.41	8,696.98	11,521.84	1.50	-1.50	-0.06
16,538.00	89.39	137.39	4,794.36	-7,666.45	8,761.15	11,616.74	0.24	-0.01	-0.24
16,632.00	90.64	137.32	4,794.34	-7,735.59	8,824.83	11,710.65	1.33	1.33	-0.07
16,727.00	90.64	136.50	4,793.28	-7,804.97	8,889.72	11,805.59	0.86	0.00	-0.86
16,821.00	89.20	136.39	4,793.41	-7,873.09	8,954.49	11,899.56	1.54	-1.53	-0.12
16,916.00	88.65	135.71	4,795.19	-7,941.47	9,020.41	11,994.52	0.92	-0.58	-0.72
17,010.00	89.73	136.16	4,796.52	-8,009.01	9,085.78	12,088.50	1.24	1.15	0.48
17,104.00	91.07	136.86	4,795.86	-8,077.20	9,150.47	12,182.46	1.61	1.43	0.74
17,200.00	90.07	136.05	4,794.91	-8,146.78	9,216.60	12,278.42	1.34	-1.04	-0.84
17,294.00	89.53	135.81	4,795.24	-8,214.31	9,281.98	12,372.40	0.63	-0.57	-0.26
17,389.00	89.60	135.26	4,795.96	-8,282.11	9,348.52	12,467.39	0.58	0.07	-0.58
17,484.00	89.97	135.03	4,796.31	-8,349.46	9,415.53	12,562.39	0.46	0.39	-0.24
17,578.00	90.23	135.52	4,796.15	-8,416.24	9,481.67	12,656.39	0.59	0.28	0.52
17,672.00	90.65	135.98	4,795.43	-8,483.57	9,547.26	12,750.38	0.66	0.45	0.49
17,767.00	91.10	136.33	4,793.98	-8,552.08	9,613.06	12,845.35	0.60	0.47	0.37
17,861.00	91.43	136.49	4,791.90	-8,620.15	9,677.86	12,939.29	0.39	0.35	0.17
17,952.00	91.61	136.81	4,789.49	-8,686.29	9,740.31	13,030.22	0.40	0.20	0.35
Frac Sleeve @ 17952 MD 4789 TVD									
17,956.00	91.62	136.82	4,789.37	-8,689.21	9,743.04	13,034.22	0.40	0.20	0.35
17,993.00	91.73	136.89	4,788.29	-8,716.19	9,768.33	13,071.18	0.36	0.29	0.20
330 FSL 1269 FEL @ 17993 MD 4788 TVD									
18,051.00	91.90	137.01	4,786.45	-8,758.56	9,807.91	13,129.12	0.36	0.29	0.20
Survey @ 18051.00 MD 4786.45 TVD									



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Rodeo Unit
Well: Rodeo Unit #508H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Rodeo Unit #508H
TVD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
MD Reference: RKB=6883+25 @ 6908.00ft (Axtec 1000)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: DB_Jul2216dt_v14

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)
18,146.00	91.90	137.01	4,783.31	-8,828.01	9,872.65	13,224.00	0.00	0.00	0.00

Survey Projected to 18146.00 MD 4783.31 TVD

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
324.00	323.93	1.35	-5.61	MWD surveys
5,260.00	4,847.83	284.23	773.15	330 FWL 1206 FNL @ 5260 MD 4848 TVD
17,952.00	4,789.49	-8,686.29	9,740.31	Frac Sleeve @ 17952 MD 4789 TVD
17,993.00	4,788.29	-8,716.19	9,768.33	330 FSL 1269 FEL @ 17993 MD 4788 TVD
18,051.00	4,786.45	-8,758.56	9,807.91	Survey @ 18051.00 MD 4786.45 TVD
18,146.00	4,783.31	-8,828.01	9,872.65	Survey Projected to 18146.00 MD 4783.31 TVD