

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
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35754	² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 321239	⁵ Property Name KIMBETO WASH UNIT	⁶ Well Number 769H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6561'

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
P	17	23N	9W		440	SOUTH	1089	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
A	18	23N	9W		370	NORTH	366	EAST	SAN JUAN

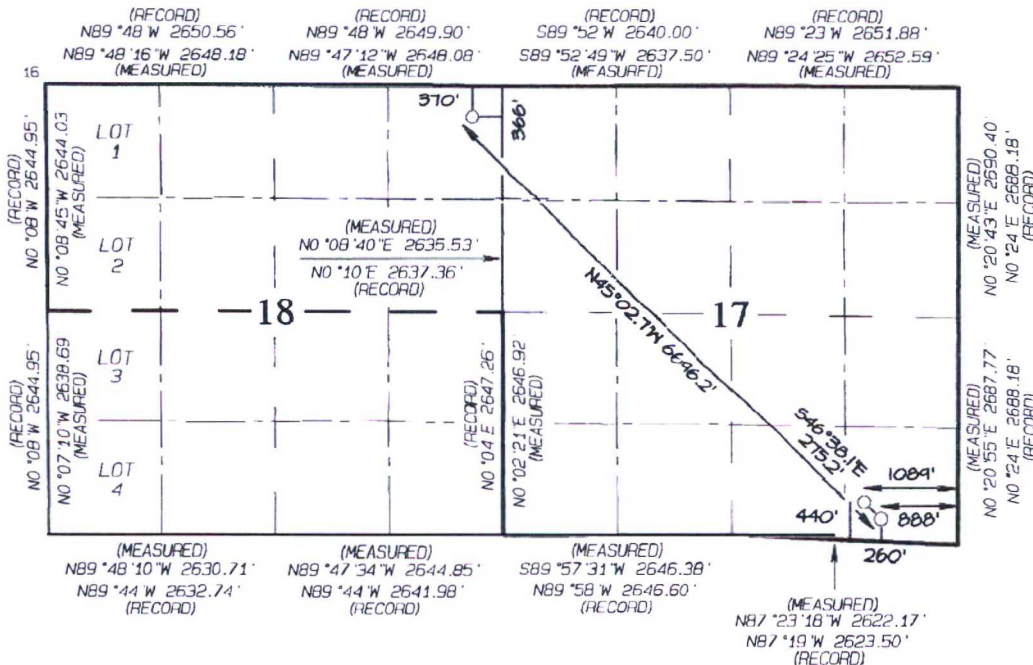
¹² Dedicated Acres 959.88	Entire Section 17 N/2 - Section 18	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14084
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE
BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

NMOC

AUG 12 2019

CONFIDENTIAL



END-OF-LATERAL
370' FNL 366' FEL
SEC. 18, T23N, R9W
LAT: 36.233131°N
LONG: 107.821751°W
DATUM: NAD1927

LAT: 36.233143°N
LONG: 107.822367°W
DATUM: NAD1983

SURFACE LOCATION
440' FSL 1089' FEL
SEC. 17, T23N, R9W
LAT: 36.220650°N
LONG: 107.806366°W
DATUM: NAD1927

LAT: 36.220663°N
LONG: 107.806982°W
DATUM: NAD1983

POINT-OF-ENTRY
260' FSL 888' FEL
SEC. 17, T23N, R9W
LAT: 36.220131°N
LONG: 107.805688°W
DATUM: NAD1927

LAT: 36.220144°N
LONG: 107.805304°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: [Signature]
Date: 8/12/15
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
Survey Date: DECEMBER 3, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number: 15269



Well: KWU Well No. 769H
Site: Kimbeto Wash Unit
Project: San Juan County, New Mexico NAD83 NM W
Design: Surveys Original Hole
Rig: Aztec 1000

ANNOTATIONS SURVEYS

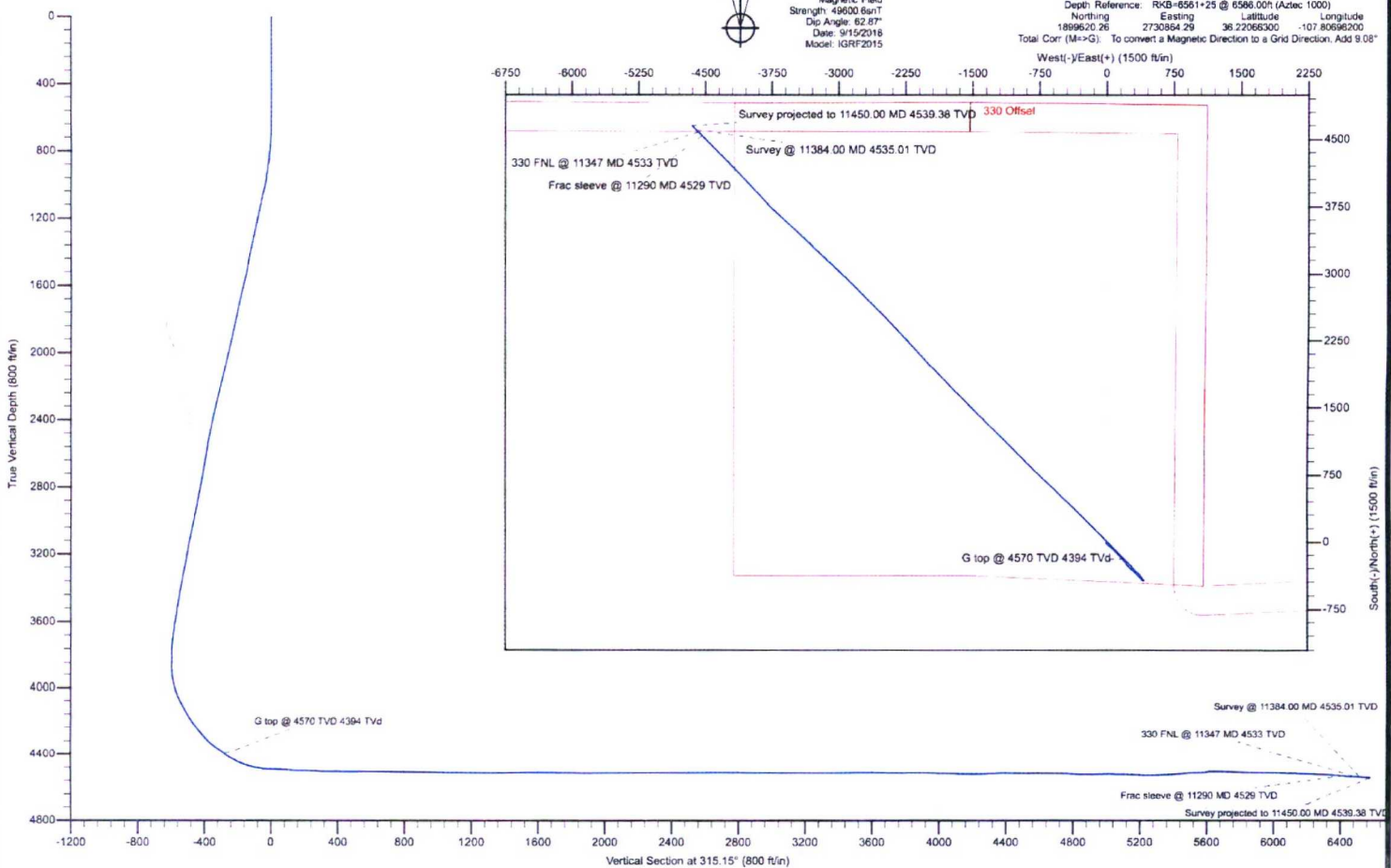
MD	Inc	Azi	TVD	+N/-S	+E/-W	V/Sect	Annotation
324.00	0.20	265.04	324.00	-0.05	-0.56	0.36	MWD surveys
4569.86	55.24	315.50	4394.00	-188.98	200.16	-275.14	G top @ 4570 TVD 4394 TVd
11290.00	86.50	314.21	4528.97	4542.17	-4538.50	6420.99	Frac sleeve @ 11290 MD 4529 TVD
11347.00	86.28	313.63	4532.58	4581.54	-4579.46	6477.86	330 FNL @ 11347 MD 4533 TVD
11384.00	86.20	313.21	4535.01	4607.02	-4606.27	6514.76	Survey @ 11384.00 MD 4535.01 TVD
11450.00	86.20	313.21	4539.38	4652.11	-4654.27	6580.58	Survey projected to 11450.00 MD 4539.38 TVD



Azimuths to Grid North
True North: -0.02°
Magnetic North: 9.08°

Magnetic Field
Strength: 48600 Gauss
Dip Angle: 62.87°
Date: 9/15/2018
Model: IGRF2015

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-6561+25 @ 6566.00ft (Aztec 1000)
Northing: 1899620.26 Easting: 2730854.29 Latitude: 36.22065300 Longitude: -107.80696200
Total Cor (MtoG): To convert a Magnetic Direction to a Grid Direction, Add 9.08°



CONFIDENTIAL



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Kimbeto Wash Unit
Well: KWU Well No. 769H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well KWU Well No. 769H
TVD Reference: RKB=6561+25 @ 6586.00ft (Aztec 1000)
MD Reference: RKB=6561+25 @ 6586.00ft (Aztec 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	Kimbeto Wash Unit				
Site Position:		Northing:	1,899,650.12 usft	Latitude:	36.22074500
From:	Lat/Long	Easting:	2,730,890.83 usft	Longitude:	-107.80689200
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.02 °

Well	KWU Well No. 769H, Surf loc: 440 FSL 1089 FEL Section 17-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,899,620.26 usft	Latitude:	36.22066300
	+E/-W	0.00 ft	Easting:	2,730,864.29 usft	Longitude:	-107.80698200
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,561.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/15/2018	9.10	62.87	49,600.60491884

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	315.15	

Survey Program	Date	12/3/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
324.00	2,475.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard
2,511.00	11,384.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
11,450.00	11,450.00	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	0.20	265.04	324.00	-0.05	-0.56	0.36	0.06	0.06	0.00
MWD surveys									
416.00	0.23	260.92	416.00	-0.09	-0.91	0.57	0.04	0.03	-4.48
508.00	0.22	259.72	508.00	-0.15	-1.26	0.78	0.01	-0.01	-1.30
598.00	0.12	276.67	598.00	-0.17	-1.53	0.95	0.12	-0.11	18.83
689.00	2.19	161.62	688.98	-1.81	-1.07	-0.53	2.47	2.27	-126.43
781.00	4.67	155.03	780.80	-6.88	1.06	-5.62	2.73	2.70	-7.16
872.00	7.08	141.70	871.32	-14.64	6.10	-14.68	3.03	2.65	-14.65



Survey Report



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Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well KWU Well No. 769H
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MD Reference: RKB=6561+25 @ 6586.00ft (Aztec 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)
964.00	9.90	141.37	962.31	-25.27	14.56	-28.18	3.07	3.07	-0.36
1,058.00	12.66	136.98	1,054.48	-39.11	26.63	-46.51	3.07	2.94	-4.67
1,153.00	12.99	130.79	1,147.12	-53.70	41.82	-67.56	1.49	0.35	-6.52
1,248.00	12.25	128.63	1,239.82	-66.97	57.78	-88.22	0.92	-0.78	-2.27
1,342.00	11.78	133.99	1,331.77	-79.86	72.47	-107.73	1.29	-0.50	5.70
1,437.00	11.13	134.66	1,424.87	-93.04	85.97	-126.59	0.70	-0.68	0.71
1,531.00	12.78	136.20	1,516.83	-106.92	99.62	-146.06	1.79	1.76	1.64
1,626.00	12.88	137.79	1,609.46	-122.35	114.01	-167.14	0.39	0.11	1.67
1,720.00	12.36	135.76	1,701.19	-137.31	128.06	-187.67	0.73	-0.55	-2.16
1,815.00	12.57	135.56	1,793.95	-151.98	142.40	-208.17	0.23	0.22	-0.21
1,909.00	11.69	135.31	1,885.85	-166.05	156.26	-227.92	0.94	-0.94	-0.27
2,003.00	13.20	136.69	1,977.64	-180.63	170.32	-248.18	1.64	1.61	1.47
2,098.00	14.02	137.85	2,069.97	-197.06	185.48	-270.51	0.91	0.86	1.22
2,192.00	13.70	138.50	2,161.23	-213.84	200.49	-293.00	0.38	-0.34	0.69
2,287.00	13.30	139.02	2,253.61	-230.51	215.12	-315.13	0.44	-0.42	0.55
2,381.00	12.65	138.43	2,345.21	-246.37	229.04	-336.20	0.71	-0.69	-0.63
2,475.00	12.10	137.94	2,437.02	-261.39	242.47	-356.31	0.60	-0.59	-0.52
2,511.00	11.86	138.83	2,472.24	-266.98	247.43	-363.77	0.84	-0.67	2.47
2,623.00	10.73	134.98	2,582.07	-283.01	262.38	-385.69	1.21	-1.01	-3.44
2,717.00	10.57	133.68	2,674.45	-295.15	274.81	-403.06	0.31	-0.17	-1.38
2,811.00	10.52	134.24	2,766.86	-307.09	287.19	-420.25	0.12	-0.05	0.60
2,906.00	10.04	133.00	2,860.34	-318.79	299.46	-437.20	0.56	-0.51	-1.31
3,000.00	11.67	134.05	2,952.65	-330.99	312.28	-454.90	1.75	1.73	1.12
3,095.00	11.28	134.57	3,045.75	-344.19	325.81	-473.79	0.42	-0.41	0.55
3,190.00	10.22	132.43	3,139.09	-356.40	338.65	-491.50	1.19	-1.12	-2.25
3,284.00	11.29	135.28	3,231.43	-368.56	351.28	-509.03	1.27	1.14	3.03
3,379.00	11.30	133.72	3,324.59	-381.60	364.55	-527.64	0.32	0.01	-1.64
3,473.00	10.52	133.18	3,416.90	-393.84	377.46	-545.42	0.84	-0.83	-0.57
3,568.00	9.42	132.82	3,510.46	-405.06	389.49	-561.86	1.16	-1.16	-0.38
3,662.00	7.96	133.25	3,603.38	-414.75	399.87	-576.05	1.55	-1.55	0.46
3,756.00	6.88	130.21	3,696.59	-422.84	408.91	-588.16	1.22	-1.15	-3.23
3,850.00	2.96	109.28	3,790.23	-427.28	415.51	-595.96	4.52	-4.17	-22.27
3,882.00	2.48	96.99	3,822.20	-427.64	416.97	-597.25	2.35	-1.50	-38.41
3,913.00	1.61	62.24	3,853.18	-427.52	418.03	-597.90	4.76	-2.81	-112.10
3,945.00	3.52	346.48	3,885.15	-426.35	418.19	-597.20	10.91	5.97	-236.75
3,976.00	7.34	333.01	3,916.01	-423.66	417.07	-594.50	12.91	12.32	-43.45
4,008.00	10.31	329.92	3,947.62	-419.36	414.71	-589.78	9.40	9.28	-9.66
4,039.00	14.42	329.57	3,977.90	-413.63	411.36	-583.36	13.26	13.26	-1.13
4,071.00	17.90	328.86	4,008.63	-405.98	406.80	-574.72	10.89	10.88	-2.22
4,102.00	21.03	326.14	4,037.85	-397.26	401.24	-564.63	10.51	10.10	-8.77
4,134.00	23.56	325.14	4,067.46	-387.26	394.38	-552.69	7.99	7.91	-3.13
4,165.00	26.21	323.33	4,095.58	-376.69	386.75	-539.81	8.89	8.55	-5.84
4,196.00	28.80	319.28	4,123.08	-365.53	377.79	-525.58	10.30	8.35	-13.06



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Kimbeto Wash Unit
Well: KWU Well No. 769H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well KWU Well No. 769H
TVD Reference: RKB=6561+25 @ 6586.00ft (Aztec 1000)
MD Reference: RKB=6561+25 @ 6586.00ft (Aztec 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)
4,228.00	30.35	313.84	4,150.91	-354.09	366.92	-509.81	9.68	4.84	-17.00
4,259.00	32.27	308.85	4,177.40	-343.47	354.83	-493.75	10.40	6.19	-16.10
4,291.00	34.97	309.33	4,204.04	-332.30	341.08	-476.13	8.48	8.44	1.50
4,323.00	36.89	312.49	4,229.96	-320.00	326.90	-457.41	8.34	6.00	9.88
4,354.00	39.18	315.53	4,254.37	-306.72	313.18	-438.32	9.54	7.39	9.81
4,385.00	41.68	316.36	4,277.97	-292.27	299.20	-418.22	8.25	8.06	2.68
4,417.00	44.89	316.78	4,301.26	-276.34	284.12	-396.29	10.07	10.03	1.31
4,448.00	48.82	316.55	4,322.46	-259.89	268.60	-373.68	12.69	12.68	-0.74
4,480.00	53.02	316.43	4,342.62	-241.88	251.50	-348.86	13.13	13.13	-0.38
4,512.00	55.89	316.21	4,361.23	-223.05	233.52	-322.83	8.99	8.97	-0.69
4,543.00	55.41	315.34	4,378.72	-204.71	215.67	-297.24	2.79	-1.55	-2.81
4,569.86	55.24	315.50	4,394.00	-188.98	200.16	-275.14	0.79	-0.63	0.59
G top @ 4570 TVD 4394 TVd									
4,575.00	55.21	315.53	4,396.93	-185.97	197.21	-270.92	0.79	-0.62	0.59
4,606.00	57.14	315.86	4,414.19	-167.54	179.22	-245.17	6.29	6.23	1.06
4,638.00	61.54	316.17	4,430.50	-147.73	160.11	-217.66	13.78	13.75	0.97
4,669.00	66.26	316.23	4,444.13	-127.65	140.85	-189.83	15.23	15.23	0.19
4,701.00	70.14	315.90	4,456.02	-106.26	120.24	-160.13	12.16	12.13	-1.03
4,732.00	73.71	315.77	4,465.63	-85.12	99.71	-130.66	11.52	11.52	-0.42
4,764.00	76.98	314.78	4,473.73	-63.13	77.92	-99.71	10.65	10.22	-3.09
4,796.00	80.75	315.04	4,479.91	-40.97	55.69	-68.32	11.81	11.78	0.81
4,827.00	85.49	315.35	4,483.62	-19.14	34.01	-37.55	15.32	15.29	1.00
4,859.00	87.21	314.59	4,485.66	3.43	11.42	-5.62	5.87	5.38	-2.38
4,890.00	87.28	314.50	4,487.15	25.15	-10.65	25.34	0.37	0.23	-0.29
4,985.00	86.60	314.10	4,492.22	91.41	-78.54	120.20	0.83	-0.72	-0.42
5,079.00	89.03	314.99	4,495.80	157.29	-145.48	214.12	2.75	2.59	0.95
5,174.00	88.59	314.65	4,497.77	224.24	-212.85	309.09	0.59	-0.46	-0.36
5,268.00	89.87	314.20	4,499.04	290.03	-279.98	403.08	1.44	1.36	-0.48
5,363.00	89.03	313.64	4,499.95	355.93	-348.40	498.05	1.06	-0.88	-0.59
5,457.00	89.13	314.66	4,501.46	421.39	-415.84	592.02	1.09	0.11	1.09
5,551.00	88.82	314.62	4,503.14	487.43	-482.71	686.00	0.33	-0.33	-0.04
5,645.00	88.66	314.47	4,505.21	553.35	-549.69	779.97	0.23	-0.17	-0.16
5,739.00	89.90	313.72	4,506.39	618.75	-617.19	873.95	1.54	1.32	-0.80
5,834.00	89.46	313.54	4,506.92	684.30	-685.96	968.91	0.50	-0.46	-0.19
5,927.00	89.19	313.40	4,508.01	748.28	-753.44	1,061.87	0.33	-0.29	-0.15
6,022.00	90.37	315.93	4,508.38	815.05	-821.00	1,156.85	2.94	1.24	2.66
6,116.00	89.80	315.10	4,508.24	882.12	-886.87	1,250.85	1.07	-0.61	-0.88
6,210.00	88.99	315.31	4,509.23	948.82	-953.10	1,344.84	0.89	-0.86	0.22
6,305.00	91.75	316.05	4,508.62	1,016.78	-1,019.46	1,439.83	3.01	2.91	0.78
6,399.00	90.94	315.24	4,506.41	1,083.97	-1,085.16	1,533.80	1.22	-0.86	-0.86
6,494.00	90.00	314.29	4,505.63	1,150.86	-1,152.60	1,628.79	1.41	-0.99	-1.00
6,588.00	88.42	312.51	4,506.93	1,215.44	-1,220.89	1,722.73	2.53	-1.68	-1.89
6,682.00	89.46	314.46	4,508.67	1,280.11	-1,289.08	1,816.67	2.35	1.11	2.07
6,777.00	89.40	314.68	4,509.61	1,346.78	-1,356.75	1,911.66	0.24	-0.06	0.23



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Kimbeto Wash Unit
Well: KWU Well No. 769H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well KWU Well No. 769H
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MD Reference: RKB=6561+25 @ 6586.00ft (Aztec 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)
6,871.00	90.88	315.93	4,509.38	1,413.60	-1,422.86	2,005.65	2.06	1.57	1.33
6,965.00	90.64	316.21	4,508.14	1,481.29	-1,488.07	2,099.63	0.39	-0.26	0.30
7,059.00	89.53	314.05	4,508.00	1,547.90	-1,554.38	2,193.63	2.58	-1.18	-2.30
7,154.00	90.17	316.37	4,508.25	1,615.32	-1,621.31	2,288.62	2.53	0.67	2.44
7,248.00	89.46	314.31	4,508.55	1,682.17	-1,687.37	2,382.61	2.32	-0.76	-2.19
7,343.00	90.03	317.32	4,508.97	1,750.29	-1,753.58	2,477.59	3.22	0.60	3.17
7,437.00	89.90	316.11	4,509.03	1,818.71	-1,818.03	2,571.56	1.29	-0.14	-1.29
7,531.00	90.74	316.47	4,508.50	1,886.66	-1,882.98	2,665.54	0.97	0.89	0.38
7,626.00	89.70	313.20	4,508.14	1,953.63	-1,950.34	2,760.52	3.61	-1.09	-3.44
7,720.00	88.69	314.75	4,509.46	2,018.89	-2,017.97	2,854.49	1.97	-1.07	1.65
7,814.00	89.43	317.53	4,511.00	2,086.65	-2,083.09	2,948.45	3.06	0.79	2.96
7,908.00	90.20	317.89	4,511.31	2,156.19	-2,146.34	3,042.35	0.90	0.82	0.38
8,003.00	89.26	317.32	4,511.75	2,226.34	-2,210.39	3,137.26	1.16	-0.99	-0.60
8,098.00	91.24	317.97	4,511.34	2,296.54	-2,274.39	3,232.17	2.19	2.08	0.68
8,192.00	90.44	317.14	4,509.96	2,365.90	-2,337.82	3,326.07	1.23	-0.85	-0.88
8,286.00	90.57	317.09	4,509.13	2,434.77	-2,401.79	3,420.01	0.15	0.14	-0.05
8,380.00	90.13	316.50	4,508.56	2,503.29	-2,466.14	3,513.97	0.78	-0.47	-0.63
8,475.00	88.86	315.11	4,509.40	2,571.39	-2,532.36	3,608.96	1.98	-1.34	-1.46
8,570.00	88.62	314.30	4,511.48	2,638.21	-2,599.86	3,703.93	0.89	-0.25	-0.85
8,664.00	90.44	316.75	4,512.26	2,705.27	-2,665.71	3,797.92	3.25	1.94	2.61
8,759.00	90.61	316.41	4,511.39	2,774.27	-2,731.00	3,892.88	0.40	0.18	-0.36
8,853.00	88.96	314.82	4,511.74	2,841.44	-2,796.75	3,986.87	2.44	-1.76	-1.69
8,947.00	88.05	313.43	4,514.19	2,906.86	-2,864.20	4,080.82	1.77	-0.97	-1.48
9,042.00	90.77	314.69	4,515.17	2,972.92	-2,932.46	4,175.79	3.16	2.86	1.33
9,136.00	91.04	314.69	4,513.68	3,039.02	-2,999.27	4,269.77	0.29	0.29	0.00
9,231.00	89.76	313.25	4,513.02	3,104.97	-3,067.64	4,364.75	2.03	-1.35	-1.52
9,325.00	88.66	311.42	4,514.32	3,168.26	-3,137.12	4,458.62	2.27	-1.17	-1.95
9,420.00	90.71	313.50	4,514.84	3,232.39	-3,207.19	4,553.50	3.07	2.16	2.19
9,514.00	89.80	314.08	4,514.42	3,297.44	-3,275.05	4,647.47	1.15	-0.97	0.62
9,609.00	88.05	312.08	4,516.20	3,362.31	-3,344.42	4,742.39	2.80	-1.84	-2.11
9,703.00	89.13	312.36	4,518.52	3,425.45	-3,414.01	4,836.23	1.19	1.15	0.30
9,798.00	91.45	313.54	4,518.04	3,490.17	-3,483.54	4,931.16	2.74	2.44	1.24
9,892.00	89.46	311.92	4,517.29	3,553.95	-3,552.58	5,025.06	2.73	-2.12	-1.72
9,986.00	88.12	310.39	4,519.27	3,615.79	-3,623.34	5,118.81	2.16	-1.43	-1.63
10,081.00	88.18	311.46	4,522.34	3,677.99	-3,695.08	5,213.50	1.13	0.06	1.13
10,175.00	91.31	315.41	4,522.76	3,742.60	-3,763.31	5,307.42	5.36	3.33	4.20
10,269.00	93.90	317.76	4,518.49	3,810.80	-3,827.84	5,401.28	3.72	2.76	2.50
10,364.00	94.71	318.25	4,511.36	3,881.20	-3,891.22	5,495.90	1.00	0.85	0.52
10,459.00	92.42	316.78	4,505.45	3,951.12	-3,955.25	5,590.62	2.86	-2.41	-1.55
10,490.00	91.48	316.43	4,504.39	3,973.63	-3,976.54	5,621.59	3.24	-3.03	-1.13
10,563.00	90.77	316.47	4,503.16	4,019.28	-4,019.94	5,684.57	1.13	-1.13	0.06
10,584.00	88.39	316.02	4,503.38	4,041.67	-4,041.37	5,715.56	7.81	-7.68	-1.45
10,647.00	88.05	315.69	4,505.34	4,086.86	-4,085.23	5,778.52	0.75	-0.54	-0.52



Survey Report



Company: Enduring Resources LLC
Project: San Juan County, New Mexico NAD83 NM W
Site: Kimbeto Wash Unit
Well: KWU Well No. 769H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well KWU Well No. 769H
TVD Reference: RKB=6561+25 @ 6586.00ft (Aztec 1000)
MD Reference: RKB=6561+25 @ 6586.00ft (Aztec 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)
10,742.00	88.99	315.06	4,507.79	4,154.45	-4,151.94	5,873.49	1.19	0.99	-0.66
10,836.00	89.43	314.44	4,509.09	4,220.62	-4,218.69	5,967.48	0.81	0.47	-0.66
10,931.00	88.15	315.70	4,511.10	4,287.86	-4,285.77	6,062.45	1.89	-1.35	1.33
11,025.00	87.14	315.80	4,514.96	4,355.13	-4,351.30	6,156.36	1.08	-1.07	0.11
11,120.00	87.01	315.00	4,519.81	4,422.68	-4,417.92	6,251.24	0.85	-0.14	-0.84
11,214.00	87.04	314.83	4,524.69	4,488.96	-4,484.40	6,345.11	0.18	0.03	-0.18
11,290.00	86.50	314.21	4,528.97	4,542.17	-4,538.50	6,420.99	1.07	-0.71	-0.81
Frac sleeve @ 11290 MD 4529 TVD									
11,309.00	86.37	314.06	4,530.15	4,555.37	-4,552.11	6,439.95	1.07	-0.71	-0.81
11,347.00	86.28	313.63	4,532.58	4,581.64	-4,579.46	6,477.86	1.15	-0.23	-1.13
330 FNL @ 11347 MD 4533 TVD									
11,384.00	86.20	313.21	4,535.01	4,607.02	-4,606.27	6,514.76	1.15	-0.23	-1.13
Survey @ 11384.00 MD 4535.01 TVD									
11,450.00	86.20	313.21	4,539.38	4,652.11	-4,654.27	6,580.58	0.00	0.00	0.00
Survey projected to 11450.00 MD 4539.38 TVD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
324.00	324.00	-0.05	-0.56	MWD surveys
4,569.86	4,394.00	-188.98	200.16	G top @ 4570 TVD 4394 TVd
11,290.00	4,528.97	4,542.17	-4,538.50	Frac sleeve @ 11290 MD 4529 TVD
11,347.00	4,532.58	4,581.64	-4,579.46	330 FNL @ 11347 MD 4533 TVD
11,384.00	4,535.01	4,607.02	-4,606.27	Survey @ 11384.00 MD 4535.01 TVD
11,450.00	4,539.38	4,652.11	-4,654.27	Survey projected to 11450.00 MD 4539.38 TVD