

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-043-21313		2 Pool Code 98225		3 Pool Name ESCAVADA W; MANCOS	
4 Property Code 321258		5 Property Name W ESCAVADA UNIT		6 Well Number 306H	
7 GRID No. 372286		8 Operator Name ENDURING RESOURCES, LLC		9 Elevation 6805'	

10 Surface Location

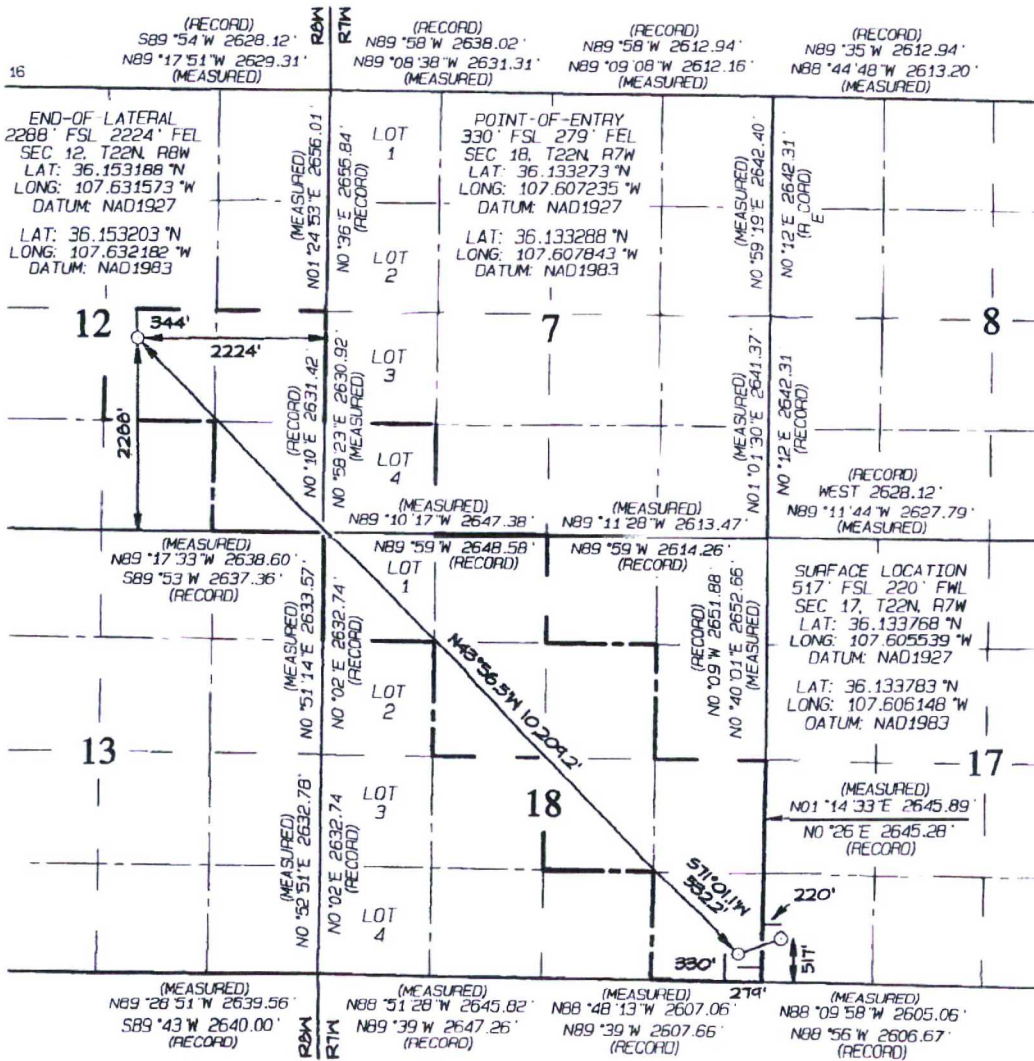
UL or lot no. M	Section 17	Township 22N	Range 7W	Lot Idn	Feet from the 517	North/South line SOUTH	Feet from the 220	East/West line WEST	County SANDOVAL
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11 Bottom Hole Location If Different From Surface

UL or lot no. J	Section 12	Township 22N	Range 8W	Lot Idn	Feet from the 2288	North/South line SOUTH	Feet from the 2224	East/West line EAST	County SAN JUAN
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12 Dedicated Acres 442.06
N/2 SE/4, SE/4 SE/4 - Section 12
SW/4 SW/4 - Section 7
NW/4 NW/4, E/2 NW/4, SW/4 NE/4
N/2 SE/4, SE/4 SE/4 - Section 18

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



CONFIDENTIAL

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement, or a compulsory pooling order heretofore entered by the division.

Signature _____ Date 7/19/19
Lacey Granillo
Printed Name
lgranillo@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 22, 2019
Survey Date: OCTOBER 7, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Well: W Escavada Unit Well No. 306H
Site: Section 17-T22N-R07W
Project: San Juan & Sandoval Counties, New Mexico NAD83 NMC
Design: Surveys Original Hole
Rig:

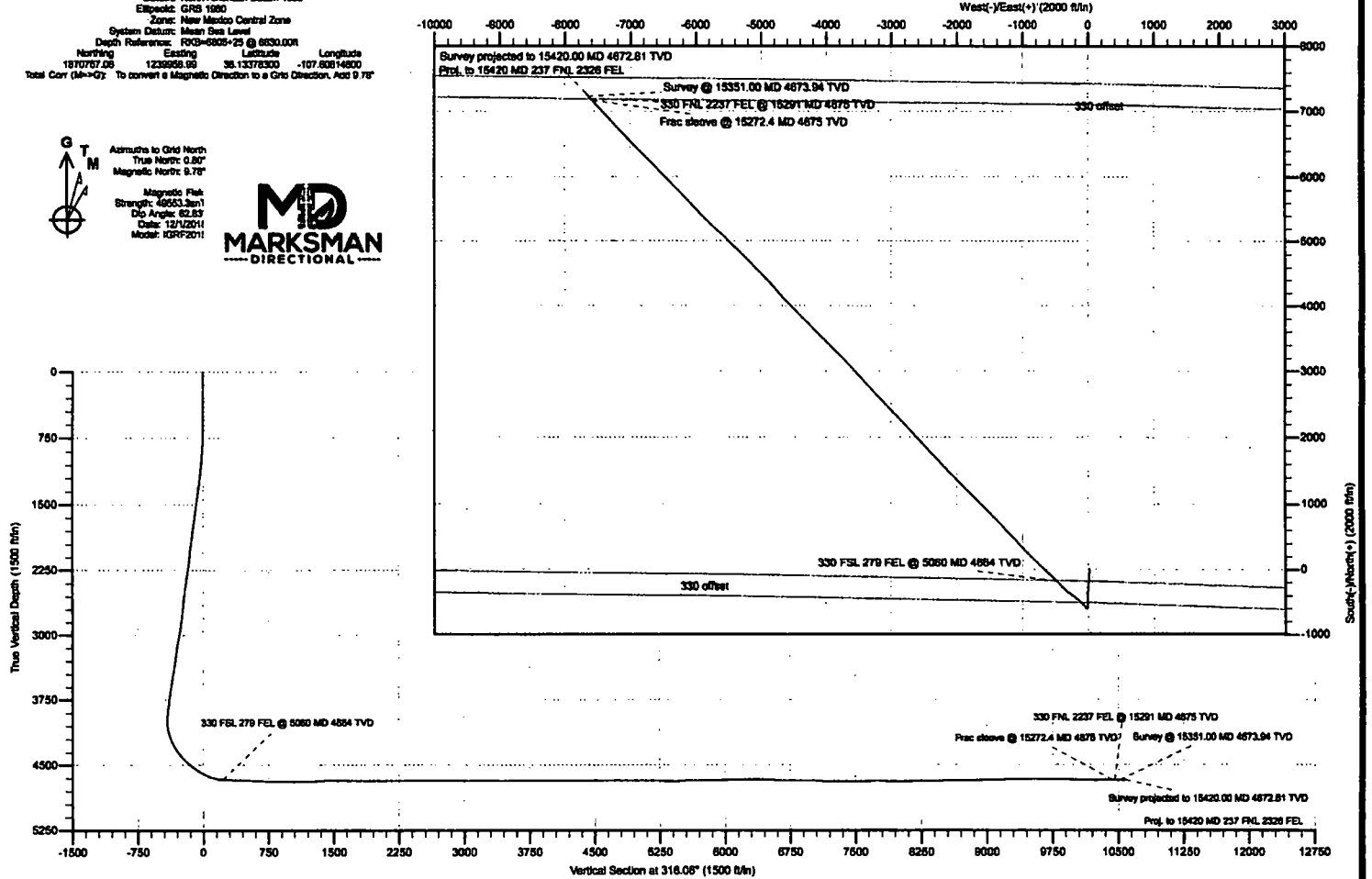
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level
Depth Reference: RFG-6825+25 @ 6630.00ft
Northing: 1870767.05
Easting: 1238988.98
Total Corr (M+G): To convert a Magnetic Direction to a Grid Direction, Add 9.78°



Astronomy to Grid North
True North: 0.80°
Magnetic North: 9.78°
Magnetic Risk
Strength: 4553.3mT
Dip Angle: 62.83°
Date: 12/12/2011
Model: IGRF2011

MD
MARKSMAN
DIRECTIONAL

ANNOTATIONS SURVEYS									
MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation	
322.00	0.17	354.63	322.00	0.48	-0.04	0.37	0.48	MWD surveys	
5080.00	88.84	318.21	4884.32	-173.20	-503.14	224.42	1283.94	330 FSL 279 FEL @ 5080 MD 4884 TVD	
15272.40	90.22	317.44	4574.70	7177.94	-7587.58	10453.08	11464.81	Prac sleeve @ 15272.4 MD 4875 TVD	
15351.00	90.34	317.46	4674.61	7191.85	-7605.15	10452.25	11483.21	330 FSL 2237 FEL @ 15351 MD 4875 TVD	
15351.00	90.94	317.15	4873.94	7235.74	-7640.84	10512.23	11543.21	Survey @ 15351.00 MD 4873.94 TVD	
15420.00	90.94	317.15	4872.81	7286.32	-7687.78	10581.21	11612.20	Survey projected to 15420.00 MD 4872.81 TVD	
15420.00	90.94	317.15	4672.81	7286.32	-7687.78	10581.21	11612.20	Proj. to 15420 MD 237 FNL 2326 FEL	



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Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 306H
Project:	San Juan & Sandoval Counties, New Mexico NAD83 NMC	TVD Reference:	RKB=6805+25 @ 6830.00ft
Site:	Section 17-T22N-R07W	MD Reference:	RKB=6805+25 @ 6830.00ft
Well:	W Escavada Unit Well No. 306H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Jul2216dt_v14

Project	San Juan & Sandoval Counties, New Mexico NAD83 NMC		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Section 17-T22N-R07W		
Site Position:		Northing:	1,870,757.06 usft
From:	Lat/Long	Easting:	1,239,958.98 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.13378300
		Longitude:	-107.60614800
		Grid Convergence:	-0.80 °

Well	W Escavada Unit Well No. 306H, Surf loc: 517 FSL 220 FWL Section 17-T22N-R07W		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.13378300
		Longitude:	-107.60614800
		Ground Level:	6,805.00 ft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	12/1/2018	8.98
			Dip Angle
			(°)
			62.83
			Field Strength
			(nT)
			49,553.28148939

Design	Surveys Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
			Direction
			(°)
	0.00	0.00	0.00
			316.06

Survey Program	Date 1/16/2019		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		Description
322.00	2,662.00	MWD surf (Original Hole)	MWD
2,701.00	15,351.00	MWD (Original Hole)	MWD
15,420.00	15,420.00	Projection (Original Hole)	MWD
			OWSG MWD - Standard
			OWSG MWD - Standard
			OWSG MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
322.00	0.17	354.63	322.00	0.48	-0.04	0.37	0.05	0.05	0.00
MWD surveys									
413.00	0.88	357.88	413.00	1.31	-0.08	1.00	0.78	0.78	3.57
504.00	1.22	88.95	503.98	2.02	0.86	0.86	1.67	0.37	100.08
595.00	1.12	101.03	594.97	1.87	2.70	-0.53	0.29	-0.11	13.27
686.00	1.59	148.29	685.94	0.83	4.24	-2.49	1.28	0.52	51.93
777.00	2.87	171.61	776.87	-2.70	5.23	-5.58	1.70	1.41	25.83

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Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 306H
Project:	San Juan & Sandoval Counties, New Mexico	TVD Reference:	RKB=6805+25 @ 6830.00ft
Site:	NAD83 NMC	MD Reference:	RKB=6805+25 @ 6830.00ft
Well:	Section 17-T22N-R07W	North Reference:	Grid
Wellbore:	W Escavada Unit Well No. 306H	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	DB_Jul2216dt_v14
Design:	Surveys Original Hole		

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)
867.00	4.33	174.44	866.69	-8.31	5.89	-10.07	1.63	1.62	3.14
962.00	6.30	180.54	961.28	-17.09	6.19	-16.60	2.15	2.07	6.42
1,058.00	7.77	176.62	1,054.57	-28.59	6.52	-25.11	1.64	1.56	-4.17
1,151.00	9.56	180.05	1,148.48	-42.90	6.89	-35.67	1.96	1.88	3.61
1,245.00	11.45	185.12	1,240.91	-60.00	6.05	-47.40	2.24	2.01	5.39
1,340.00	11.20	187.25	1,334.06	-78.54	4.04	-59.36	0.51	-0.26	2.24
1,435.00	10.00	184.24	1,427.44	-95.92	2.27	-70.64	1.39	-1.26	-3.17
1,529.00	11.46	183.90	1,519.79	-113.38	1.03	-82.35	1.55	1.55	-0.36
1,623.00	11.43	185.97	1,611.92	-131.86	-0.57	-94.62	0.44	-0.03	2.20
1,718.00	10.94	185.44	1,705.12	-150.29	-2.41	-106.55	0.53	-0.52	-0.56
1,812.00	10.13	184.66	1,797.53	-167.41	-3.93	-117.82	0.87	-0.86	-0.83
1,907.00	11.58	185.10	1,890.83	-185.24	-5.45	-129.60	1.53	1.53	0.46
2,001.00	11.66	186.79	1,982.90	-204.07	-7.41	-141.80	0.37	0.09	1.80
2,095.00	11.26	185.42	2,075.03	-222.63	-9.40	-153.79	0.51	-0.43	-1.46
2,189.00	10.86	186.79	2,167.28	-240.56	-11.32	-165.37	0.61	-0.43	1.46
2,284.00	12.41	184.81	2,260.33	-259.62	-13.23	-177.77	1.68	1.63	-2.08
2,379.00	12.75	184.52	2,353.05	-280.25	-14.91	-191.45	0.36	0.36	-0.31
2,473.00	12.44	185.68	2,444.78	-300.66	-16.73	-204.89	0.43	-0.33	1.23
2,567.00	11.60	186.62	2,536.72	-320.12	-18.82	-217.45	0.92	-0.89	1.00
2,662.00	10.28	186.50	2,629.99	-338.04	-20.89	-228.92	1.39	-1.39	-0.13
2,701.00	9.84	186.34	2,668.39	-344.81	-21.65	-233.26	1.13	-1.13	-0.41
2,815.00	9.26	185.41	2,780.81	-363.62	-23.59	-245.46	0.53	-0.51	-0.82
2,909.00	11.66	180.95	2,873.25	-380.65	-24.46	-257.12	2.69	2.55	-4.74
3,004.00	11.47	181.34	2,966.32	-399.69	-24.84	-270.57	0.22	-0.20	0.41
3,098.00	11.08	181.47	3,058.50	-418.06	-25.29	-283.49	0.42	-0.41	0.14
3,192.00	10.83	181.09	3,150.79	-435.92	-25.69	-296.07	0.28	-0.27	-0.40
3,286.00	11.49	179.67	3,243.01	-454.11	-25.80	-309.09	0.76	0.70	-1.51
3,380.00	12.06	178.72	3,335.03	-473.29	-25.53	-323.09	0.64	0.61	-1.01
3,475.00	14.08	181.08	3,427.57	-494.77	-25.53	-338.56	2.20	2.13	2.48
3,570.00	13.31	183.41	3,519.87	-517.24	-26.39	-354.13	1.00	-0.81	2.45
3,664.00	12.70	183.55	3,611.46	-538.36	-27.68	-368.45	0.65	-0.65	0.15
3,759.00	13.40	183.40	3,704.00	-559.77	-28.98	-382.96	0.74	0.74	-0.16
3,854.00	9.82	176.15	3,797.05	-578.85	-29.09	-396.63	4.06	-3.77	-7.63
3,948.00	6.63	174.11	3,890.07	-592.25	-27.99	-407.03	3.41	-3.39	-2.17
3,980.00	6.53	175.14	3,921.86	-595.90	-27.65	-409.90	0.48	-0.31	3.22
4,011.00	5.83	181.88	3,952.68	-599.23	-27.55	-412.37	3.25	-2.26	21.74
4,043.00	3.98	216.05	3,984.57	-601.75	-28.26	-413.69	10.56	-5.78	106.78
4,075.00	3.68	274.75	4,016.51	-602.56	-29.93	-413.11	11.75	-0.94	183.44
4,106.00	6.22	307.29	4,047.39	-601.46	-32.26	-410.71	11.91	8.19	104.97
4,137.00	9.59	315.26	4,078.10	-598.61	-35.42	-406.46	11.41	10.87	25.71
4,169.00	13.07	319.02	4,109.47	-593.98	-39.67	-400.18	11.11	10.88	11.75
4,200.00	16.20	319.55	4,139.46	-588.04	-44.77	-392.36	10.11	10.10	1.71
4,232.00	18.58	318.82	4,169.99	-580.81	-51.03	-382.81	7.47	7.44	-2.28



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 306H
Project:	San Juan & Sandoval Counties, New Mexico	TVD Reference:	RKB=6805+25 @ 6830.00ft
Site:	NAD83 NMC	MD Reference:	RKB=6805+25 @ 6830.00ft
Well:	Section 17-T22N-R07W	North Reference:	Grid
Wellbore:	W Escavada Unit Well No. 306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole	Database:	DB_Jul2216dt_v14
Design:	Surveys Original Hole		

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)
4,263.00	21.29	318.46	4,199.13	-572.88	-58.01	-372.26	8.75	8.74	-1.16
4,295.00	24.11	318.95	4,228.65	-563.75	-66.33	-359.91	9.00	8.81	-4.72
4,326.00	26.81	318.67	4,266.64	-554.04	-75.46	-346.59	8.72	8.71	-0.90
4,358.00	29.62	314.58	4,284.84	-543.24	-86.03	-331.47	9.31	8.78	-6.53
4,390.00	32.12	312.90	4,312.30	-531.89	-97.90	-315.06	8.26	7.81	-5.25
4,421.00	34.52	312.21	4,338.20	-520.38	-110.45	-298.07	7.84	7.74	-2.23
4,452.00	37.11	311.49	4,363.34	-508.28	-123.96	-279.98	8.46	8.35	-2.32
4,484.00	39.68	311.90	4,388.42	-495.06	-138.80	-260.16	8.07	8.03	1.28
4,515.00	41.72	313.23	4,411.92	-481.38	-153.68	-239.99	7.15	6.58	4.29
4,547.00	44.23	313.47	4,435.33	-466.41	-169.54	-218.20	7.88	7.84	0.75
4,579.00	46.35	312.48	4,457.84	-450.91	-186.18	-195.49	6.98	6.63	-3.09
4,610.00	49.06	310.48	4,478.70	-435.73	-203.36	-172.64	9.96	8.74	-6.45
4,642.00	51.19	309.36	4,499.22	-419.98	-222.20	-148.23	7.18	6.66	-3.50
4,705.00	55.23	307.92	4,536.94	-388.49	-261.61	-98.21	6.67	6.41	-2.29
4,736.00	54.87	307.66	4,554.70	-372.92	-281.69	-73.07	1.35	-1.16	-0.84
4,768.00	54.90	307.15	4,573.10	-357.02	-302.48	-47.19	1.31	0.09	-1.59
4,799.00	57.11	308.64	4,590.44	-341.24	-322.76	-21.75	8.17	7.13	4.81
4,831.00	60.80	309.93	4,606.94	-323.88	-343.97	5.47	12.04	11.53	4.03
4,863.00	64.83	311.10	4,621.55	-305.38	-365.60	33.80	13.01	12.59	3.66
4,894.00	68.84	311.88	4,633.75	-286.50	-386.94	62.20	13.14	12.94	2.52
4,925.00	72.82	312.83	4,643.92	-266.82	-408.61	91.41	13.04	12.84	2.42
4,957.00	77.37	313.55	4,652.15	-245.70	-431.19	122.28	14.49	14.22	2.88
4,989.00	81.70	314.78	4,657.97	-223.78	-453.75	153.73	14.05	13.53	3.84
5,020.00	85.25	315.76	4,661.49	-201.90	-475.42	184.52	11.87	11.45	3.16
5,060.00	86.64	316.21	4,664.32	-173.20	-503.14	224.42	3.65	3.48	1.13
330 FSL 279 FEL @ 5060 MD 4664 TVD									
5,083.00	87.44	316.47	4,665.50	-156.59	-519.00	247.39	3.65	3.48	1.13
5,178.00	87.78	315.09	4,669.47	-88.56	-585.20	342.30	1.49	0.36	-1.45
5,272.00	87.81	314.99	4,673.08	-22.10	-651.57	436.21	0.11	0.03	-0.11
5,367.00	87.48	314.30	4,676.99	44.60	-719.10	531.10	0.80	-0.35	-0.73
5,461.00	87.28	314.09	4,681.28	110.06	-786.43	624.96	0.31	-0.21	-0.22
5,556.00	88.49	316.42	4,684.79	177.48	-853.25	719.87	2.76	1.27	2.45
5,650.00	88.92	316.29	4,686.91	245.49	-918.11	813.85	0.48	0.46	-0.14
5,744.00	89.29	316.22	4,686.38	313.39	-983.10	907.84	0.40	0.39	-0.07
5,839.00	89.87	316.62	4,689.08	382.20	-1,048.59	1,002.83	0.74	0.61	0.42
5,933.00	90.97	316.42	4,688.39	450.41	-1,113.27	1,096.82	1.19	1.17	-0.21
6,027.00	91.68	316.47	4,686.22	518.51	-1,178.02	1,190.80	0.76	0.76	0.05
6,122.00	92.12	316.49	4,683.07	587.36	-1,243.40	1,285.74	0.46	0.46	0.02
6,217.00	89.60	316.16	4,681.64	656.06	-1,308.99	1,380.72	2.68	-2.65	-0.35
6,311.00	89.23	316.68	4,682.60	724.15	-1,373.79	1,474.71	0.68	-0.39	0.55
6,406.00	89.36	316.30	4,683.77	793.04	-1,439.19	1,569.70	0.42	0.14	-0.40
6,500.00	89.60	315.73	4,684.62	860.68	-1,504.47	1,663.70	0.66	0.26	-0.61



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 306H
Project:	San Juan & Sandoval Counties, New Mexico	TVD Reference:	RKB=6805+25 @ 6830.00ft
Site:	NAD83 NMC	MD Reference:	RKB=6805+25 @ 6830.00ft
Well:	Section 17-T22N-R07W	North Reference:	Grid
Wellbore:	W Escavada Unit Well No. 306H	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	DB_Jul2216dt_v14
	Surveys Original Hole		

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)	
6,594.00	90.17	315.27	4,684.81	927.72	-1,570.35	1,757.70	0.78	0.61	-0.49	
6,689.00	90.44	315.13	4,684.30	995.13	-1,637.29	1,852.68	0.32	0.28	-0.15	
6,783.00	90.77	315.01	4,683.31	1,081.67	-1,703.67	1,946.66	0.37	0.35	-0.13	
6,878.00	91.01	314.27	4,681.84	1,128.42	-1,771.26	2,041.62	0.82	0.25	-0.78	
6,972.00	89.06	315.26	4,681.78	1,194.61	-1,838.00	2,135.59	2.33	-2.07	1.05	
7,067.00	89.13	315.69	4,683.28	1,262.33	-1,904.60	2,230.58	0.46	0.07	0.45	
7,161.00	89.83	315.54	4,684.30	1,329.50	-1,970.35	2,324.57	0.56	0.53	-0.16	
7,256.00	90.20	315.33	4,684.44	1,397.19	-2,037.01	2,419.56	0.64	0.60	-0.22	
7,350.00	90.71	315.01	4,683.69	1,463.85	-2,103.28	2,513.55	0.64	0.54	-0.34	
7,445.00	90.37	316.31	4,682.80	1,531.79	-2,169.67	2,608.54	1.41	-0.36	1.37	
7,540.00	90.30	316.72	4,682.24	1,600.71	-2,235.05	2,703.53	0.44	-0.07	0.43	
7,634.00	89.93	316.39	4,682.05	1,668.96	-2,299.69	2,797.53	0.53	-0.39	-0.35	
7,729.00	90.00	315.29	4,682.11	1,737.11	-2,365.87	2,892.53	1.16	0.07	-1.16	
7,824.00	88.66	317.78	4,683.22	1,806.05	-2,431.21	2,987.51	2.98	-1.41	2.62	
7,918.00	89.19	317.02	4,684.98	1,875.23	-2,494.83	3,081.46	0.99	0.56	-0.81	
8,013.00	89.87	317.15	4,685.78	1,944.80	-2,559.51	3,176.44	0.73	0.72	0.14	
8,107.00	90.67	316.43	4,685.32	2,013.31	-2,623.87	3,270.43	1.14	0.85	-0.77	
8,202.00	91.28	316.22	4,683.70	2,082.01	-2,689.46	3,365.42	0.68	0.64	-0.22	
8,297.00	90.24	317.28	4,682.44	2,151.20	-2,754.55	3,460.40	1.56	-1.09	1.12	
8,391.00	90.37	317.37	4,681.94	2,220.31	-2,818.26	3,554.38	0.17	0.14	0.10	
8,485.00	89.97	316.77	4,681.66	2,289.13	-2,882.29	3,648.36	0.77	-0.43	-0.64	
8,579.00	89.97	316.43	4,681.71	2,357.43	-2,946.87	3,742.36	0.36	0.00	-0.36	
8,674.00	90.10	316.35	4,681.66	2,426.22	-3,012.40	3,837.36	0.16	0.14	-0.08	
8,768.00	90.27	316.61	4,681.35	2,494.38	-3,077.13	3,931.35	0.33	0.18	0.28	
8,863.00	90.34	316.72	4,680.85	2,563.48	-3,142.32	4,026.35	0.14	0.07	0.12	
8,958.00	89.87	316.39	4,680.67	2,632.45	-3,207.65	4,121.34	0.60	-0.49	-0.35	
9,052.00	89.60	316.63	4,681.11	2,700.65	-3,272.34	4,215.34	0.38	-0.29	0.26	
9,146.00	89.87	316.37	4,681.54	2,768.83	-3,337.04	4,309.33	0.40	0.29	-0.28	
9,242.00	89.77	316.76	4,681.84	2,838.54	-3,403.05	4,405.33	0.42	-0.10	0.41	
9,336.00	89.76	316.95	4,682.23	2,907.12	-3,467.33	4,499.32	0.20	-0.01	0.20	
9,431.00	89.83	317.23	4,682.57	2,976.70	-3,532.01	4,594.30	0.30	0.07	0.29	
9,525.00	89.70	316.49	4,682.95	3,045.29	-3,596.28	4,688.29	0.80	-0.14	-0.79	
9,619.00	90.30	316.57	4,682.95	3,113.51	-3,660.95	4,782.29	0.64	0.64	0.09	
9,714.00	90.37	316.60	4,682.40	3,182.52	-3,726.24	4,877.28	0.08	0.07	0.03	
9,808.00	90.67	316.36	4,681.55	3,250.68	-3,790.97	4,971.28	0.41	0.32	-0.26	
9,903.00	90.10	315.09	4,680.91	3,318.70	-3,857.29	5,066.27	1.47	-0.60	-1.34	
9,997.00	89.29	314.76	4,681.41	3,385.07	-3,923.84	5,160.25	0.93	-0.86	-0.35	
10,091.00	89.09	314.59	4,682.74	3,451.16	-3,990.68	5,254.21	0.28	-0.21	-0.18	
10,186.00	89.19	313.51	4,684.16	3,517.20	-4,058.95	5,349.14	1.14	0.11	-1.14	
10,280.00	91.11	315.34	4,683.92	3,582.99	-4,126.07	5,443.10	2.82	2.04	1.95	
10,375.00	91.82	315.43	4,681.49	3,650.60	-4,192.77	5,538.06	0.75	0.75	0.09	
10,469.00	91.41	315.79	4,678.84	3,717.74	-4,258.50	5,632.02	0.58	-0.44	0.38	
10,563.00	91.45	315.63	4,676.49	3,785.01	-4,324.12	5,725.99	0.18	0.04	-0.17	



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 306H
Project:	San Juan & Sandoval Counties, New Mexico	TVD Reference:	RKB=6805+25 @ 6830.00ft
Site:	NAD83 NMC	MD Reference:	RKB=6805+25 @ 6830.00ft
Well:	Section 17-T22N-R07W	North Reference:	Grid
Wellbore:	W Escavada Unit Well No. 306H	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	DB_Jul2216dt_v14
Design:	Surveys Original Hole		

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)
10,657.00	90.57	316.15	4,674.84	3,852.49	-4,389.54	5,819.97	1.09	-0.94	0.55
10,752.00	91.34	315.65	4,673.25	3,920.70	-4,455.64	5,914.95	0.97	0.81	-0.53
10,847.00	92.39	315.47	4,670.16	3,988.49	-4,522.12	6,009.90	1.12	1.11	-0.19
10,942.00	91.04	316.51	4,687.32	4,056.78	-4,588.09	6,104.85	1.79	-1.42	1.09
11,036.00	89.46	317.05	4,666.91	4,125.28	-4,652.46	6,198.84	1.78	-1.68	0.57
11,130.00	89.76	317.17	4,667.55	4,194.15	-4,716.43	6,292.82	0.34	0.32	0.13
11,224.00	89.06	317.35	4,668.52	4,263.18	-4,780.23	6,386.80	0.77	-0.74	0.19
11,319.00	87.38	318.94	4,671.47	4,333.90	-4,843.58	6,481.68	2.43	-1.77	1.67
11,413.00	88.01	319.41	4,675.25	4,404.98	-4,904.98	6,575.47	0.84	0.67	0.50
11,508.00	88.72	317.21	4,677.96	4,475.88	-4,968.14	6,670.35	2.43	0.75	-2.32
11,603.00	89.06	317.37	4,679.80	4,545.68	-5,032.56	6,765.31	0.40	0.36	0.17
11,698.00	89.36	314.80	4,681.11	4,614.10	-5,098.44	6,860.29	2.72	0.32	-2.71
11,792.00	89.93	315.92	4,681.69	4,680.98	-5,164.49	6,954.28	1.34	0.61	1.19
11,887.00	88.96	314.98	4,682.61	4,748.68	-5,231.13	7,049.27	1.42	-1.02	-0.99
11,981.00	88.93	314.95	4,684.34	4,815.09	-5,297.63	7,143.24	0.05	-0.03	-0.03
12,076.00	89.26	314.93	4,685.84	4,882.19	-5,364.86	7,238.21	0.35	0.35	-0.02
12,170.00	89.80	314.88	4,686.61	4,948.54	-5,431.44	7,332.18	0.58	0.57	-0.05
12,265.00	90.20	314.62	4,686.61	5,015.43	-5,498.91	7,427.16	0.50	0.42	-0.27
12,359.00	90.74	314.61	4,685.84	5,081.44	-5,565.82	7,521.12	0.57	0.57	-0.01
12,454.00	91.21	314.49	4,684.23	5,148.08	-5,633.51	7,616.08	0.51	0.49	-0.13
12,548.00	91.85	314.40	4,681.72	5,213.88	-5,700.59	7,710.01	0.69	0.68	-0.10
12,642.00	88.55	315.00	4,681.39	5,279.98	-5,767.40	7,803.97	3.57	-3.51	0.64
12,737.00	88.45	313.66	4,683.87	5,346.35	-5,835.33	7,898.89	1.41	-0.11	-1.41
12,831.00	89.46	316.80	4,685.59	5,412.95	-5,901.63	7,992.85	3.31	1.07	3.13
12,926.00	90.54	317.20	4,685.59	5,482.31	-5,966.53	8,087.84	1.30	1.14	0.63
13,021.00	90.87	316.78	4,684.42	5,551.77	-6,031.33	8,182.82	0.56	0.35	-0.44
13,115.00	91.34	316.73	4,682.61	5,620.23	-6,095.72	8,276.79	0.50	0.50	-0.05
13,209.00	91.18	316.30	4,680.54	5,688.42	-6,160.39	8,370.77	0.49	-0.17	-0.46
13,303.00	90.77	316.80	4,678.94	5,756.65	-6,225.03	8,464.75	0.69	-0.44	0.53
13,398.00	90.57	316.10	4,677.83	5,825.50	-6,290.48	8,559.74	0.77	-0.21	-0.74
13,492.00	90.37	315.71	4,677.06	5,893.00	-6,355.88	8,653.73	0.47	-0.21	-0.41
13,587.00	90.97	316.17	4,675.95	5,961.27	-6,421.94	8,748.73	0.80	0.63	0.48
13,680.00	91.31	316.33	4,674.10	6,028.43	-6,486.24	8,841.71	0.40	0.37	0.17
13,775.00	90.74	315.65	4,672.40	6,096.75	-6,552.24	8,936.69	0.93	-0.60	-0.72
13,869.00	90.61	315.29	4,671.29	6,163.75	-6,618.15	9,030.68	0.41	-0.14	-0.38
13,963.00	91.34	315.05	4,669.69	6,230.41	-6,684.41	9,124.65	0.82	0.78	-0.26
14,058.00	92.52	314.47	4,666.49	6,297.26	-6,751.83	9,219.57	1.38	1.24	-0.61
14,152.00	90.47	315.85	4,664.04	6,363.89	-6,818.08	9,313.52	2.63	-2.18	1.47
14,247.00	90.40	316.55	4,663.32	6,432.45	-6,883.83	9,408.52	0.74	-0.07	0.74
14,341.00	91.21	315.80	4,662.00	6,500.26	-6,948.92	9,502.51	1.17	0.86	-0.80
14,436.00	89.39	316.21	4,661.50	6,568.60	-7,014.90	9,597.50	1.96	-1.92	0.43
14,531.00	89.56	316.14	4,662.37	6,637.14	-7,080.68	9,692.50	0.19	0.18	-0.07



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 306H
Project:	San Juan & Sandoval Counties, New Mexico NAD83 NMC	TVD Reference:	RKB=6805+25 @ 6830.00ft
Site:	Section 17-T22N-R07W	MD Reference:	RKB=6805+25 @ 6830.00ft
Well:	W Escavada Unit Well No. 306H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	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)
14,625.00	90.00	316.16	4,662.73	6,704.92	-7,145.80	9,786.50	0.47	0.47	0.02
14,720.00	88.01	317.18	4,664.38	6,774.01	-7,210.98	9,881.47	2.35	-2.09	1.07
14,814.00	88.35	317.27	4,667.37	6,842.98	-7,274.78	9,975.41	0.37	0.36	0.10
14,909.00	88.69	317.36	4,669.82	6,912.79	-7,339.17	10,070.35	0.37	0.36	0.09
15,003.00	88.69	316.91	4,671.97	6,981.67	-7,403.09	10,164.31	0.48	0.00	-0.48
15,098.00	89.13	316.01	4,673.78	7,050.52	-7,468.52	10,259.29	1.05	0.46	-0.95
15,192.00	89.76	317.22	4,674.69	7,118.83	-7,533.09	10,353.28	1.45	0.67	1.29
15,272.40	90.22	317.44	4,674.70	7,177.94	-7,587.58	10,433.66	0.63	0.57	0.27
Frac sleeve @ 15272.4 MD 4675 TVD									
15,287.00	90.30	317.48	4,674.64	7,188.70	-7,597.45	10,448.25	0.63	0.57	0.27
15,291.00	90.34	317.46	4,674.61	7,191.65	-7,600.16	10,452.25	1.13	1.00	-0.52
330 FNL 2237 FEL @ 15291 MD 4675 TVD									
15,351.00	90.94	317.15	4,673.94	7,235.74	-7,640.84	10,512.23	1.13	1.00	-0.52
Survey @ 15351.00 MD 4673.94 TVD									
15,420.00	90.94	317.15	4,672.81	7,286.32	-7,687.76	10,581.21	0.00	0.00	0.00
Survey projected to 15420.00 MD 4672.81 TVD - Proj. to 15420 MD 237 FNL 2326 FEL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
322.00	322.00	0.48	-0.04	MWD surveys
5,060.00	4,664.32	-173.20	-503.14	330 FSL 279 FEL @ 5060 MD 4664 TVD
15,272.40	4,674.70	7,177.94	-7,587.58	Frac sleeve @ 15272.4 MD 4675 TVD
15,291.00	4,674.61	7,191.65	-7,600.16	330 FNL 2237 FEL @ 15291 MD 4675 TVD
15,351.00	4,673.94	7,235.74	-7,640.84	Survey @ 15351.00 MD 4673.94 TVD
15,420.00	4,672.81	7,286.32	-7,687.76	Survey projected to 15420.00 MD 4672.81 TVD
15,420.00	4,672.81	7,286.32	-7,687.76	Proj. to 15420 MD 237 FNL 2326 FEL