

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: (505) 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 30-043-21325		2 Pool Code 98225		3 Pool Name ESCAVADA W; MANCOS	
4 Property Code 321258		5 Property Name W ESCAVADA UNIT			6 Well Number 307H
7 GRID No. 372286		8 Operator Name ENDURING RESOURCES, LLC			9 Elevation 6824'

10 Surface Location

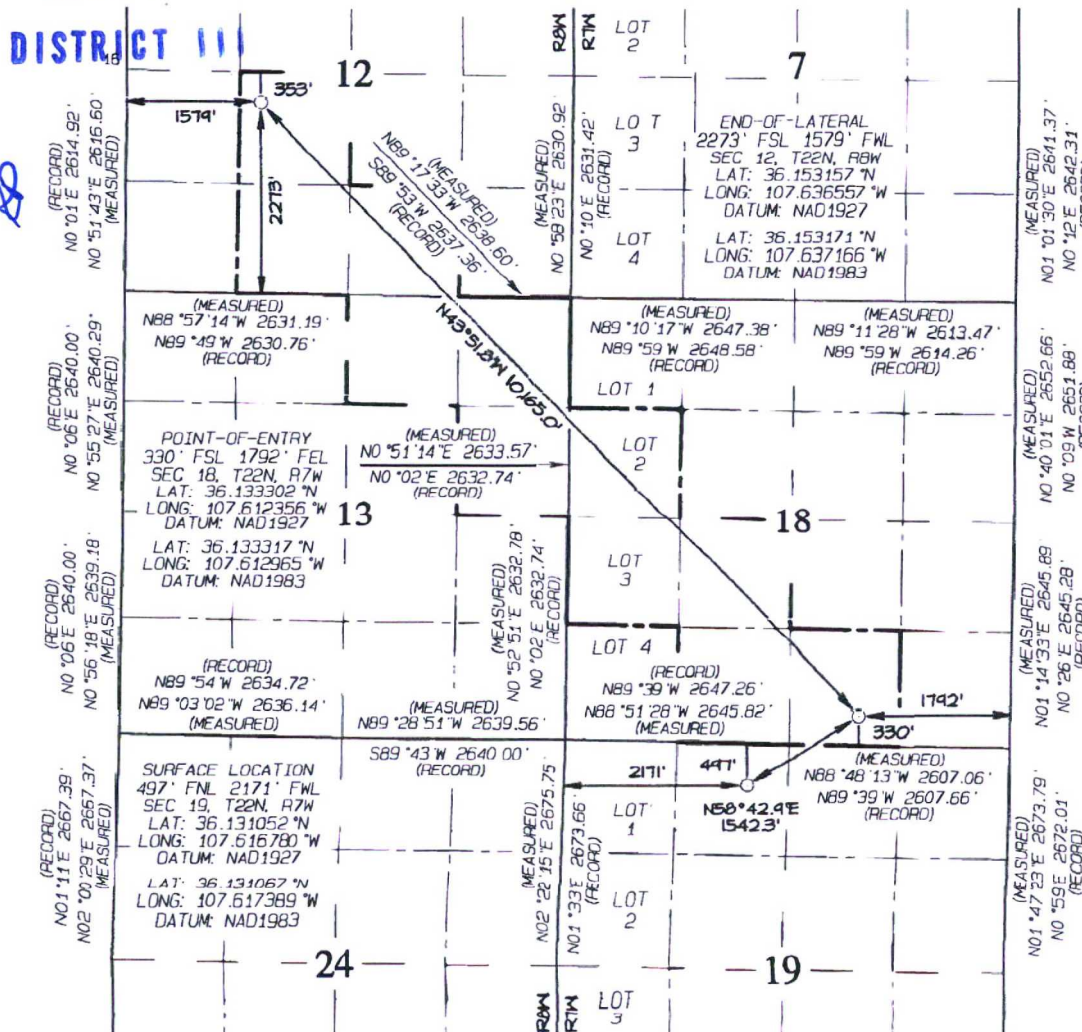
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	19	22N	7W		497	NORTH	2171	WEST	SANDOVAL

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
K	12	22N	8W		2273	SOUTH	1579	WEST	SAN JUAN

12 Dedicated Acres 442.24 E/2 SW/4, SW/4 SE/4 - Section 12 N/2 NE/4, SE/4 NE/4 - Section 13 SW/4 NW/4, N/2 SW/4 SE/4 SW/4, SW/4 SE/4 - Section 18					13 Joint or Infill 14 Consolidation Code 15 Order No. R-14100				
--	--	--	--	--	--	--	--	--	--

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.

Signature: *Lacey Granillo* Date: *7/22/19*

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 or 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: JULY 8, 2019
Survey Date: OCTOBER 27, 2018

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

JASON C. EDWARDS
Certificate Number 15269

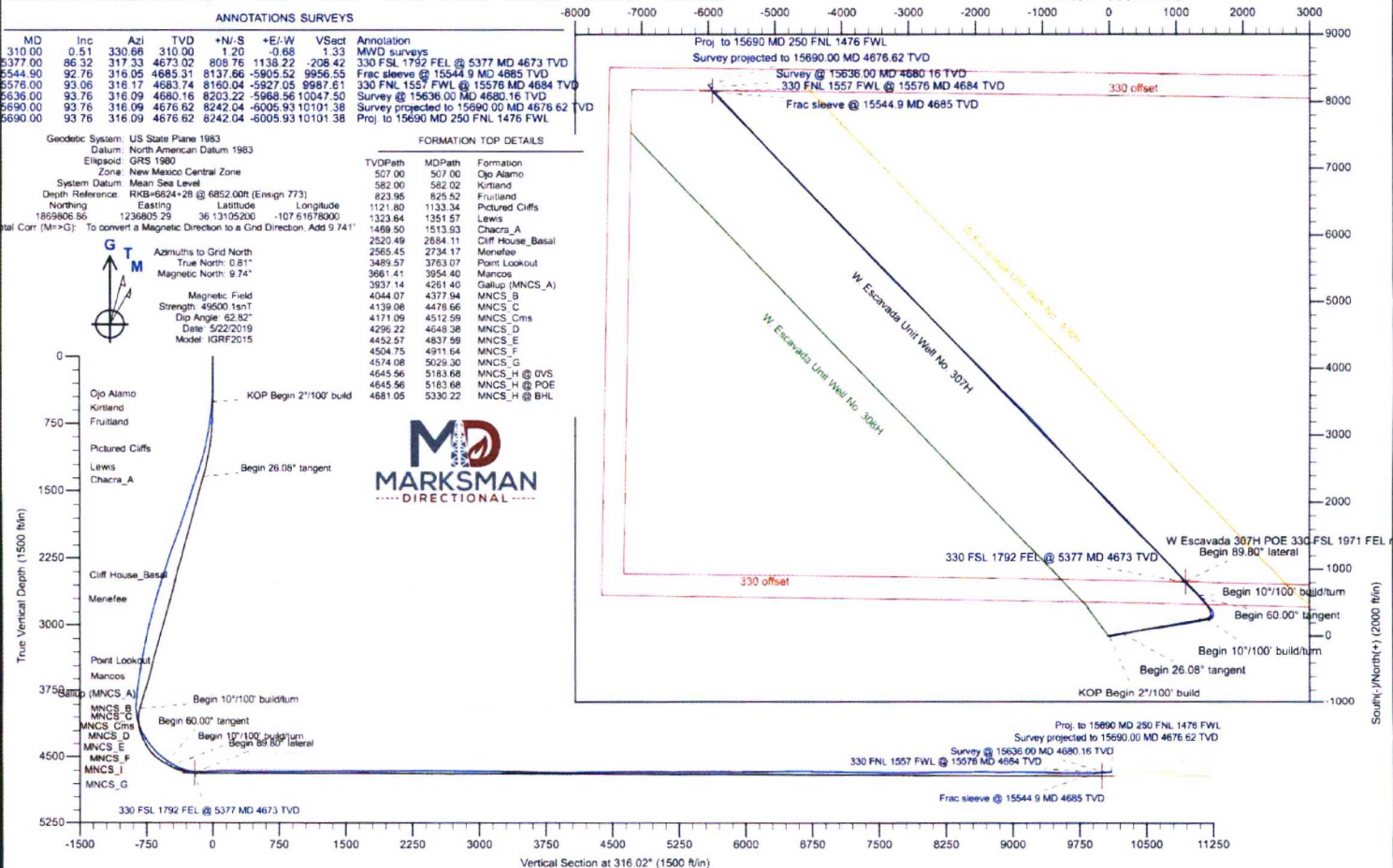


Well: W. Escavada Unit Well No. 307H
Site: Section 19-T22N-R07W
Project: San Juan & Sandoval Counties, New Mexico NAD83 NMC
Design: rev2
Rig: Ensign 773

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	East	Latitude	Longitude
W Escavada 307H POE 330 FSL 1971 FEL r1	4685.00	813.56	1139.75	1879620.45	1237945.04	36.13333040	-107.61296000
W Escavada 307H PBHL 2295 FSL 1359 FWL r1	4720.00	8155.66	-5945.28	1877962.51	1230860.02	36.15321900	-107.63730200

Section Details										Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 2"/100' build
3	1369.46	26.08	79.97	1339.73	33.89	191.54	3.00	79.967	-108.62	Begin 26.08' tangent
4	4274.29	26.08	79.97	3948.72	256.40	1449.21	0.00	0.000	-821.84	Begin 10"/100' build/turn
5	5037.52	60.00	316.02	4578.24	571.48	1373.38	10.00	132.321	-542.46	Begin 60.00' tangent
6	5097.52	60.00	316.02	4638.24	638.87	1337.30	0.00	0.000	-490.50	Begin 10"/100' build/turn
7	5595.56	89.80	316.02	4685.00	813.60	1139.73	10.00	0.001	-205.99	Begin 89.80' lateral
8	15598.71	89.80	316.02	4720.00	8155.66	-5945.28	0.00	0.000	9997.11	PBHL/TD 15598.71 MD/4720.00 TVD



CONFIDENTIAL



Survey Report

Company: Enduring Resources LLC
Project: San Juan & Sandoval Counties, New Mexico
 NAD83 NMC
Site: Section 19-T22N-R07W
Well: W. Escavada Unit Well No. 307H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well W. Escavada Unit Well No. 307H
TVD Reference: RKB=6824+28 @ 6852.00ft (Ensign 773)
MD Reference: RKB=6824+28 @ 6852.00ft (Ensign 773)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 19-T22N-R07W				
Site Position:		Northing:	1,869,806.87 usft	Latitude:	36.13105200
From:	Lat/Long	Easting:	1,236,805.29 usft	Longitude:	-107.61678000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.806 °

Well	W. Escavada Unit Well No. 307H, Surf loc: 497 FNL 2171 FWL Section 19-T22N-R07W					
Well Position	+N/-S	0.00 ft	Northing:	1,869,806.87 usft	Latitude:	36.13105200
	+E/-W	0.00 ft	Easting:	1,236,805.29 usft	Longitude:	-107.61678000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,824.00 ft

Wellbore	Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	5/22/2019	8.935	62.821	49,500.11686072	

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	316.02	

Survey Program	Date	7/4/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
310.00	15,636.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
15,690.00	15,690.00	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
310.00	0.51	330.66	310.00	1.20	-0.68	1.33	0.16	0.16	0.00
MWD surveys									
401.00	4.32	76.31	400.91	2.37	2.46	0.00	4.93	4.19	116.10
493.00	11.46	75.33	491.98	5.51	14.68	-6.23	7.76	7.76	-1.07
584.00	13.30	75.43	580.86	10.43	33.56	-15.80	2.02	2.02	0.11
675.00	14.25	77.88	669.24	15.41	54.64	-26.85	1.22	1.04	2.69
765.00	16.17	80.10	756.09	19.89	77.82	-39.72	2.23	2.13	2.47
856.00	16.47	82.18	843.42	23.83	103.08	-54.43	0.72	0.33	2.29



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Survey Calculation Method: Minimum Curvature
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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)
948.00	19.16	81.27	931.00	27.90	130.93	-70.85	2.94	2.92	-0.99
1,039.00	21.86	81.75	1,016.23	32.59	162.46	-89.36	2.97	2.97	0.53
1,129.00	24.90	81.29	1,098.83	37.87	197.78	-110.09	3.38	3.38	-0.51
1,221.00	26.91	82.67	1,181.58	43.46	237.58	-133.70	2.28	2.18	1.50
1,312.00	29.10	81.19	1,261.92	49.48	279.87	-158.75	2.52	2.41	-1.63
1,402.00	31.30	81.04	1,339.70	56.47	324.60	-184.77	2.45	2.44	-0.17
1,494.00	30.08	79.98	1,418.81	64.20	370.91	-211.37	1.45	-1.33	-1.15
1,586.00	29.35	78.98	1,498.72	72.52	415.75	-236.51	0.96	-0.79	-1.09
1,677.00	31.17	80.23	1,577.31	80.78	460.85	-261.89	2.12	2.00	1.37
1,769.00	31.16	81.44	1,656.04	88.37	507.85	-289.07	0.68	-0.01	1.32
1,859.00	30.53	81.27	1,733.31	95.30	553.47	-315.76	0.71	-0.70	-0.19
1,952.00	30.11	82.21	1,813.59	102.05	599.93	-343.16	0.68	-0.45	1.01
2,044.00	29.49	83.26	1,893.42	107.84	645.28	-370.49	0.88	-0.67	1.14
2,137.00	31.12	81.59	1,973.71	114.04	691.79	-398.33	1.97	1.75	-1.80
2,229.00	31.43	81.59	2,052.34	121.02	739.04	-426.11	0.34	0.34	0.00
2,320.00	30.99	82.70	2,130.17	127.47	785.75	-453.91	0.80	-0.48	1.22
2,412.00	30.78	80.37	2,209.13	134.42	832.46	-481.34	1.32	-0.23	-2.53
2,504.00	30.57	79.96	2,288.26	142.43	878.70	-507.68	0.32	-0.23	-0.45
2,595.00	30.63	80.38	2,366.59	150.34	924.34	-533.69	0.24	0.07	0.46
2,686.00	30.48	80.79	2,444.95	157.91	969.98	-559.93	0.28	-0.16	0.45
2,754.00	29.71	81.31	2,503.78	163.22	1,003.66	-579.50	1.20	-1.13	0.76
2,850.00	28.40	82.72	2,587.70	169.70	1,049.83	-606.89	1.54	-1.36	1.47
2,943.00	27.29	80.36	2,669.93	176.08	1,092.79	-632.14	1.68	-1.19	-2.54
3,035.00	27.41	79.06	2,751.65	183.63	1,134.37	-655.58	0.66	0.13	-1.41
3,127.00	27.32	77.73	2,833.36	192.13	1,175.79	-678.22	0.67	-0.10	-1.45
3,219.00	24.30	80.77	2,916.17	199.66	1,215.12	-700.12	3.58	-3.28	3.30
3,310.00	24.24	79.71	2,999.13	206.00	1,251.98	-721.15	0.48	-0.07	-1.16
3,402.00	21.71	79.63	3,083.83	212.44	1,287.31	-741.05	2.75	-2.75	-0.09
3,493.00	21.38	78.27	3,168.47	218.84	1,320.10	-759.22	0.66	-0.36	-1.49
3,584.00	18.98	78.81	3,253.88	225.08	1,350.87	-776.08	2.65	-2.64	0.59
3,675.00	18.40	79.00	3,340.08	230.70	1,379.48	-791.92	0.64	-0.64	0.21
3,765.00	16.13	79.92	3,426.02	235.59	1,405.74	-806.62	2.54	-2.52	1.02
3,857.00	15.74	79.28	3,514.48	240.15	1,430.58	-820.60	0.46	-0.42	-0.70
3,950.00	14.90	78.23	3,604.17	244.94	1,454.68	-833.89	0.95	-0.90	-1.13
4,042.00	13.45	77.52	3,693.37	249.66	1,476.71	-845.78	1.59	-1.58	-0.77
4,131.00	12.25	75.63	3,780.14	254.24	1,495.96	-855.86	1.43	-1.35	-2.12
4,223.00	10.42	69.65	3,870.35	259.56	1,513.22	-864.01	2.36	-1.99	-6.50
4,269.00	14.41	54.93	3,915.27	264.30	1,521.81	-866.57	11.01	8.67	-32.00
4,315.00	18.35	44.27	3,959.41	272.78	1,531.55	-867.24	10.74	8.57	-23.17
4,360.00	20.62	34.94	4,001.84	284.35	1,541.04	-865.50	8.55	5.04	-20.73
4,406.00	22.66	22.10	4,044.62	299.21	1,549.02	-860.34	11.18	4.43	-27.91
4,452.00	25.00	9.74	4,086.72	317.01	1,554.00	-850.99	11.96	5.09	-26.87



Survey Report

Company: Enduring Resources LLC
Project: San Juan & Sandoval Counties, New Mexico
 NAD83 NMC
Site: Section 19-T22N-R07W
Well: W. Escavada Unit Well No. 307H
Wellbore: Original Hole
Design: Surveys Original Hole

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TVD Reference: RKB=6824+28 @ 6852.00ft (Ensign 773)
MD Reference: RKB=6824+28 @ 6852.00ft (Ensign 773)
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)
4,498.00	26.22	358.14	4,128.23	336.76	1,555.31	-837.69	11.20	2.65	-25.22
4,544.00	26.02	345.10	4,169.56	356.69	1,552.39	-821.32	12.47	-0.43	-28.35
4,590.00	25.55	333.15	4,211.01	375.30	1,545.31	-803.01	11.33	-1.02	-25.98
4,636.00	25.90	321.25	4,252.48	392.00	1,534.53	-783.52	11.24	0.76	-25.87
4,682.00	29.57	314.61	4,293.20	407.81	1,520.15	-762.15	10.42	7.98	-14.43
4,728.00	33.95	313.33	4,332.30	424.61	1,502.72	-737.96	9.63	9.52	-2.78
4,774.00	37.98	311.95	4,369.52	442.89	1,482.84	-711.00	8.94	8.76	-3.00
4,818.00	42.11	312.90	4,403.20	461.99	1,461.96	-682.76	9.49	9.39	2.16
4,865.00	44.93	314.73	4,437.28	484.40	1,438.62	-650.42	6.57	6.00	3.89
4,911.00	46.74	317.54	4,469.33	508.20	1,415.77	-617.43	5.89	3.93	6.11
4,957.00	49.28	319.00	4,500.10	533.71	1,393.02	-583.27	6.00	5.52	3.17
5,003.00	51.37	319.10	4,529.47	560.45	1,369.82	-547.92	4.55	4.54	0.22
5,049.00	55.65	317.92	4,556.82	588.14	1,345.31	-510.98	9.53	9.30	-2.57
5,095.00	59.66	316.50	4,581.43	616.65	1,318.91	-472.14	9.10	8.72	-3.09
5,141.00	60.85	315.95	4,604.25	645.48	1,291.28	-432.20	2.79	2.59	-1.20
5,187.00	65.83	316.21	4,624.88	675.09	1,262.78	-391.10	10.84	10.83	0.57
5,233.00	69.80	316.77	4,642.25	705.97	1,233.46	-348.52	8.70	8.63	1.22
5,280.00	74.18	317.17	4,656.78	738.64	1,202.97	-303.84	9.35	9.32	0.85
5,324.00	79.75	317.34	4,666.70	770.11	1,173.89	-261.00	12.66	12.66	0.39
5,370.00	85.66	317.26	4,672.53	803.63	1,142.96	-215.40	12.85	12.85	-0.17
5,377.00	86.32	317.33	4,673.02	808.76	1,138.22	-208.42	9.43	9.37	1.07
330 FSL 1792 FEL @ 5377 MD 4673 TVD									
5,416.00	89.97	317.75	4,674.29	837.51	1,111.91	-169.46	9.43	9.37	1.06
5,462.00	91.48	317.29	4,673.71	871.43	1,080.85	-123.48	3.43	3.28	-1.00
5,552.00	92.09	317.72	4,670.90	937.76	1,020.08	-33.56	0.83	0.68	0.48
5,643.00	92.46	316.81	4,667.29	1,004.55	958.38	57.35	1.08	0.41	-1.00
5,735.00	90.13	316.09	4,665.21	1,071.20	895.01	149.32	2.65	-2.53	-0.78
5,827.00	89.83	315.22	4,665.24	1,137.00	830.71	241.31	1.00	-0.33	-0.95
5,918.00	88.25	316.54	4,666.77	1,202.31	767.37	332.30	2.26	-1.74	1.45
6,008.00	88.86	316.06	4,669.04	1,267.36	705.21	422.27	0.86	0.68	-0.53
6,100.00	89.16	314.77	4,670.63	1,332.87	640.64	514.24	1.44	0.33	-1.40
6,192.00	89.60	314.47	4,671.62	1,397.49	575.16	606.21	0.58	0.48	-0.33
6,285.00	90.13	313.36	4,671.84	1,461.99	508.17	699.15	1.32	0.57	-1.19
6,377.00	90.40	315.78	4,671.42	1,526.55	442.63	791.11	2.65	0.29	2.63
6,467.00	90.30	314.95	4,670.87	1,590.59	379.40	881.10	0.93	-0.11	-0.92
6,558.00	90.64	313.82	4,670.12	1,654.24	314.37	972.06	1.30	0.37	-1.24
6,648.00	90.74	315.42	4,669.04	1,717.45	250.32	1,062.02	1.78	0.11	1.78
6,738.00	91.24	314.17	4,667.48	1,780.85	186.46	1,151.99	1.50	0.56	-1.39
6,830.00	90.30	317.27	4,666.24	1,846.70	122.24	1,243.96	3.52	-1.02	3.37
6,923.00	91.14	316.44	4,665.08	1,914.55	58.65	1,336.95	1.27	0.90	-0.89
7,015.00	90.30	317.17	4,663.92	1,981.61	-4.31	1,428.93	1.21	-0.91	0.79
7,107.00	88.15	317.80	4,665.16	2,049.42	-66.48	1,520.88	2.44	-2.34	0.68
7,199.00	89.03	317.26	4,667.43	2,117.26	-128.57	1,612.82	1.12	0.96	-0.59



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Survey

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7,288.00	89.83	317.18	4,668.31	2,182.58	-189.02	1,701.80	0.90	0.90	-0.09
7,380.00	90.37	316.58	4,668.15	2,249.73	-251.90	1,793.79	0.88	0.59	-0.65
7,473.00	91.31	315.73	4,666.79	2,316.79	-316.32	1,886.78	1.36	1.01	-0.91
7,563.00	89.53	317.24	4,666.13	2,382.05	-378.28	1,976.76	2.59	-1.98	1.68
7,653.00	90.30	317.25	4,666.26	2,448.14	-439.38	2,066.74	0.86	0.86	0.01
7,743.00	91.51	316.74	4,664.84	2,513.94	-500.75	2,156.72	1.46	1.34	-0.57
7,836.00	89.90	317.00	4,663.70	2,581.81	-564.33	2,249.70	1.75	-1.73	0.28
7,928.00	89.13	319.03	4,664.48	2,650.19	-625.86	2,341.63	2.36	-0.84	2.21
8,018.00	89.83	318.14	4,665.29	2,717.68	-685.40	2,431.54	1.26	0.78	-0.99
8,110.00	88.25	318.43	4,666.83	2,786.34	-746.60	2,523.45	1.75	-1.72	0.32
8,202.00	88.69	317.77	4,669.29	2,854.79	-808.02	2,615.35	0.86	0.48	-0.72
8,295.00	89.26	317.30	4,670.95	2,923.39	-870.80	2,708.31	0.79	0.61	-0.51
8,387.00	89.83	317.11	4,671.68	2,990.89	-933.30	2,800.28	0.65	0.62	-0.21
8,477.00	90.37	317.17	4,671.53	3,056.86	-994.52	2,890.26	0.60	0.60	0.07
8,570.00	89.26	316.81	4,671.83	3,124.87	-1,057.95	2,983.25	1.25	-1.19	-0.39
8,662.00	90.07	316.65	4,672.37	3,191.85	-1,121.01	3,075.24	0.90	0.88	-0.17
8,754.00	88.99	315.96	4,673.12	3,258.37	-1,184.57	3,167.23	1.39	-1.17	-0.75
8,847.00	89.36	315.57	4,674.46	3,324.99	-1,249.44	3,260.22	0.58	0.40	-0.42
8,938.00	89.70	315.04	4,675.21	3,389.68	-1,313.44	3,351.21	0.69	0.37	-0.58
9,030.00	90.47	315.21	4,675.07	3,454.87	-1,378.35	3,443.20	0.86	0.84	0.18
9,120.00	88.22	314.91	4,676.10	3,518.57	-1,441.91	3,533.18	2.52	-2.50	-0.33
9,213.00	88.49	314.26	4,678.77	3,583.83	-1,508.12	3,626.11	0.76	0.29	-0.70
9,305.00	89.09	313.93	4,680.71	3,647.83	-1,574.18	3,718.04	0.74	0.65	-0.36
9,397.00	88.86	316.03	4,682.36	3,712.85	-1,639.24	3,810.00	2.30	-0.25	2.28
9,490.00	89.50	315.70	4,683.69	3,779.59	-1,703.99	3,902.99	0.77	0.69	-0.35
9,582.00	90.40	315.75	4,683.77	3,845.46	-1,768.22	3,994.99	0.98	0.98	0.05
9,672.00	90.87	315.61	4,682.77	3,909.84	-1,831.09	4,084.98	0.54	0.52	-0.16
9,765.00	91.78	315.12	4,680.62	3,976.00	-1,896.42	4,177.95	1.11	0.98	-0.53
9,855.00	90.54	316.17	4,678.80	4,040.34	-1,959.32	4,267.92	1.81	-1.38	1.17
9,947.00	90.87	315.79	4,677.67	4,106.49	-2,023.25	4,359.92	0.55	0.36	-0.41
10,038.00	91.41	315.44	4,675.86	4,171.51	-2,086.89	4,450.90	0.71	0.59	-0.38
10,130.00	89.36	314.49	4,675.24	4,236.52	-2,151.97	4,542.87	2.46	-2.23	-1.03
10,222.00	89.46	315.04	4,676.18	4,301.30	-2,217.29	4,634.85	0.61	0.11	0.60
10,314.00	90.00	315.14	4,676.62	4,366.46	-2,282.24	4,726.83	0.60	0.59	0.11
10,406.00	90.60	314.56	4,676.14	4,431.34	-2,347.46	4,818.81	0.91	0.65	-0.63
10,496.00	91.61	314.87	4,674.40	4,494.65	-2,411.41	4,908.77	1.17	1.12	0.34
10,589.00	88.79	316.00	4,674.08	4,560.90	-2,476.66	5,001.75	3.27	-3.03	1.22
10,681.00	89.06	316.06	4,675.80	4,627.10	-2,540.52	5,093.74	0.30	0.29	0.07
10,771.00	89.87	315.79	4,676.64	4,691.76	-2,603.12	5,183.73	0.95	0.90	-0.30
10,864.00	90.17	315.25	4,676.61	4,758.11	-2,668.28	5,276.73	0.66	0.32	-0.58
10,954.00	90.84	315.68	4,675.82	4,822.26	-2,731.40	5,366.72	0.88	0.74	0.48
11,045.00	91.18	315.07	4,674.21	4,887.02	-2,795.31	5,457.70	0.77	0.37	-0.67
11,135.00	88.62	315.41	4,674.37	4,950.92	-2,858.68	5,547.68	2.87	-2.84	0.38



Survey Report

Company: Enduring Resources LLC
Project: San Juan & Sandoval Counties, New Mexico
 NAD83 NMC
Site: Section 19-T22N-R07W
Well: W. Escavada Unit Well No. 307H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well W. Escavada Unit Well No. 307H
TVD Reference: RKB=6824+28 @ 6852.00ft (Ensign 773)
MD Reference: RKB=6824+28 @ 6852.00ft (Ensign 773)
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)
11,227.00	89.16	315.20	4,676.15	5,016.31	-2,923.38	5,639.66	0.63	0.59	-0.23
11,319.00	89.53	314.85	4,677.20	5,081.38	-2,988.40	5,731.64	0.55	0.40	-0.38
11,411.00	90.03	314.86	4,677.56	5,146.27	-3,053.61	5,823.62	0.54	0.54	0.01
11,504.00	89.76	315.45	4,677.73	5,212.21	-3,119.20	5,916.61	0.70	-0.29	0.63
11,596.00	90.20	315.48	4,677.76	5,277.79	-3,183.72	6,008.60	0.48	0.48	0.03
11,686.00	90.20	315.45	4,677.45	5,341.94	-3,246.84	6,098.60	0.03	0.00	-0.03
11,778.00	91.24	315.00	4,676.29	5,407.25	-3,311.63	6,190.58	1.23	1.13	-0.49
11,871.00	89.83	317.02	4,675.42	5,474.15	-3,376.22	6,283.57	2.65	-1.52	2.17
11,963.00	90.54	316.98	4,675.12	5,541.43	-3,438.96	6,375.55	0.77	0.77	-0.04
12,055.00	90.87	317.28	4,673.99	5,608.85	-3,501.55	6,467.53	0.48	0.36	0.33
12,147.00	89.66	315.81	4,673.57	5,675.63	-3,564.82	6,559.52	2.07	-1.32	-1.60
12,240.00	90.64	316.23	4,673.32	5,742.55	-3,629.40	6,652.52	1.15	1.05	0.45
12,332.00	88.55	316.39	4,673.97	5,809.07	-3,692.94	6,744.51	2.28	-2.27	0.17
12,424.00	89.63	316.50	4,675.43	5,875.74	-3,756.33	6,836.49	1.18	1.17	0.12
12,516.00	90.77	316.41	4,675.11	5,942.42	-3,819.70	6,928.49	1.24	1.24	-0.10
12,608.00	89.13	316.71	4,675.19	6,009.22	-3,882.96	7,020.48	1.81	-1.78	0.33
12,701.00	88.65	315.38	4,677.00	6,076.15	-3,947.50	7,113.46	1.52	-0.52	-1.43
12,793.00	89.33	315.24	4,678.62	6,141.55	-4,012.19	7,205.44	0.75	0.74	-0.15
12,885.00	90.47	315.37	4,678.78	6,206.94	-4,076.89	7,297.43	1.25	1.24	0.14
12,977.00	88.32	317.60	4,679.75	6,273.65	-4,140.23	7,389.41	3.37	-2.34	2.42
13,069.00	88.96	317.14	4,681.93	6,341.32	-4,202.52	7,481.36	0.86	0.70	-0.50
13,160.00	89.63	316.43	4,683.05	6,407.63	-4,264.82	7,572.34	1.07	0.74	-0.78
13,252.00	90.24	315.15	4,683.16	6,473.58	-4,328.97	7,664.34	1.54	0.66	-1.39
13,345.00	90.77	314.48	4,682.34	6,539.12	-4,394.94	7,757.32	0.92	0.57	-0.72
13,437.00	89.66	316.13	4,681.91	6,620.15	-4,475.12	7,871.30	1.74	-0.97	1.45
13,529.00	89.66	315.71	4,682.46	6,686.24	-4,539.12	7,963.30	0.46	0.00	-0.46
13,621.00	90.37	315.69	4,682.43	6,752.80	-4,604.07	8,056.30	0.76	0.76	-0.02
13,713.00	91.01	316.13	4,681.32	6,818.88	-4,668.08	8,148.29	0.84	0.70	0.48
13,805.00	89.53	316.36	4,680.89	6,885.33	-4,731.70	8,240.28	1.63	-1.61	0.25
13,897.00	90.30	316.39	4,681.03	6,952.64	-4,795.86	8,333.28	0.83	0.83	0.03
13,989.00	91.14	316.27	4,679.90	7,017.74	-4,858.00	8,423.27	0.94	0.93	-0.13
14,081.00	91.11	316.24	4,678.09	7,084.19	-4,921.60	8,515.25	0.05	-0.03	-0.03
14,173.00	90.00	315.18	4,677.20	7,150.04	-4,985.84	8,607.25	1.67	-1.21	-1.15
14,265.00	88.99	318.66	4,677.99	7,215.76	-5,047.30	8,697.22	4.03	-1.12	3.87
14,357.00	89.23	318.03	4,679.41	7,283.74	-5,107.78	8,788.13	0.74	0.26	-0.69
14,449.00	90.00	317.72	4,680.02	7,351.98	-5,169.48	8,880.08	0.90	0.84	-0.34
14,541.00	90.91	316.19	4,679.29	7,419.21	-5,232.28	8,972.06	1.93	0.99	-1.66
14,633.00	89.36	317.47	4,679.07	7,487.03	-5,295.90	9,065.05	2.16	-1.67	1.38
14,725.00	89.93	317.18	4,679.64	7,554.67	-5,358.26	9,157.02	0.70	0.62	-0.32
14,817.00	87.68	317.58	4,681.56	7,622.35	-5,420.54	9,248.97	2.48	-2.45	0.43
14,909.00	87.98	318.02	4,685.05	7,690.45	-5,482.29	9,340.86	0.58	0.33	0.48
15,001.00	89.09	316.86	4,687.40	7,758.19	-5,544.50	9,432.80	1.74	1.21	-1.26



Survey Report

Company: Enduring Resources LLC
Project: San Juan & Sandoval Counties, New Mexico
 NAD83 NMC
Site: Section 19-T22N-R07W
Well: W. Escavada Unit Well No. 307H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well W. Escavada Unit Well No. 307H
TVD Reference: RKB=6824+28 @ 6852.00ft (Ensign 773)
MD Reference: RKB=6824+28 @ 6852.00ft (Ensign 773)
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)
15,112.00	90.00	317.23	4,688.12	7,824.79	-5,606.50	9,523.78	1.08	1.00	0.41
15,204.00	88.66	316.48	4,689.20	7,891.91	-5,669.41	9,615.76	1.67	-1.46	-0.82
15,296.00	89.50	316.44	4,690.67	7,958.59	-5,732.78	9,707.74	0.91	0.91	-0.04
15,388.00	90.81	316.04	4,690.43	8,025.04	-5,796.41	9,799.74	1.49	1.42	-0.43
15,480.00	92.12	315.77	4,688.07	8,091.09	-5,860.40	9,891.71	1.45	1.42	-0.29
15,544.90	92.76	316.05	4,685.31	8,137.66	-5,905.52	9,956.55	1.07	0.98	0.43
Frac sleeve @ 15544.9 MD 4685 TVD									
15,573.00	93.03	316.17	4,683.90	8,157.88	-5,924.97	9,984.61	1.07	0.98	0.43
15,576.00	93.06	316.17	4,683.74	8,160.04	-5,927.05	9,987.61	1.17	1.16	-0.13
330 FNL 1557 FWL @ 15576 MD 4684 TVD									
15,636.00	93.76	316.09	4,680.16	8,203.22	-5,968.56	10,047.50	1.17	1.16	-0.13
Survey @ 15636.00 MD 4680.16 TVD									
15,690.00	93.76	316.09	4,676.62	8,242.04	-6,005.93	10,101.38	0.00	0.00	0.00
Survey projected to 15690.00 MD 4676.62 TVD - Proj. to 15690 MD 250 FNL 1476 FWL									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
310.00	310.00	1.20	-0.68	MWD surveys
5,377.00	4,673.02	808.76	1,138.22	330 FSL 1792 FEL @ 5377 MD 4673 TVD
15,544.90	4,685.31	8,137.66	-5,905.52	Frac sleeve @ 15544.9 MD 4685 TVD
15,576.00	4,683.74	8,160.04	-5,927.05	330 FNL 1557 FWL @ 15576 MD 4684 TVD
15,636.00	4,680.16	8,203.22	-5,968.56	Survey @ 15636.00 MD 4680.16 TVD
15,690.00	4,676.62	8,242.04	-6,005.93	Survey projected to 15690.00 MD 4676.62 TVD
15,690.00	4,676.62	8,242.04	-6,005.93	Proj. to 15690 MD 250 FNL 1476 FWL