

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 30-043-21309		2 Pool Code 98225		3 Pool Name ESCAVADA W; MANCOS	
4 Property Code 321258		5 Property Name W ESCAVADA UNIT			6 Well Number 305H
7 GRID No. 372286		8 Operator Name ENDURING RESOURCES, LLC			9 Elevation 6805'

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
M	17	22N	7W		497	SOUTH	220	WEST	SANDOVAL

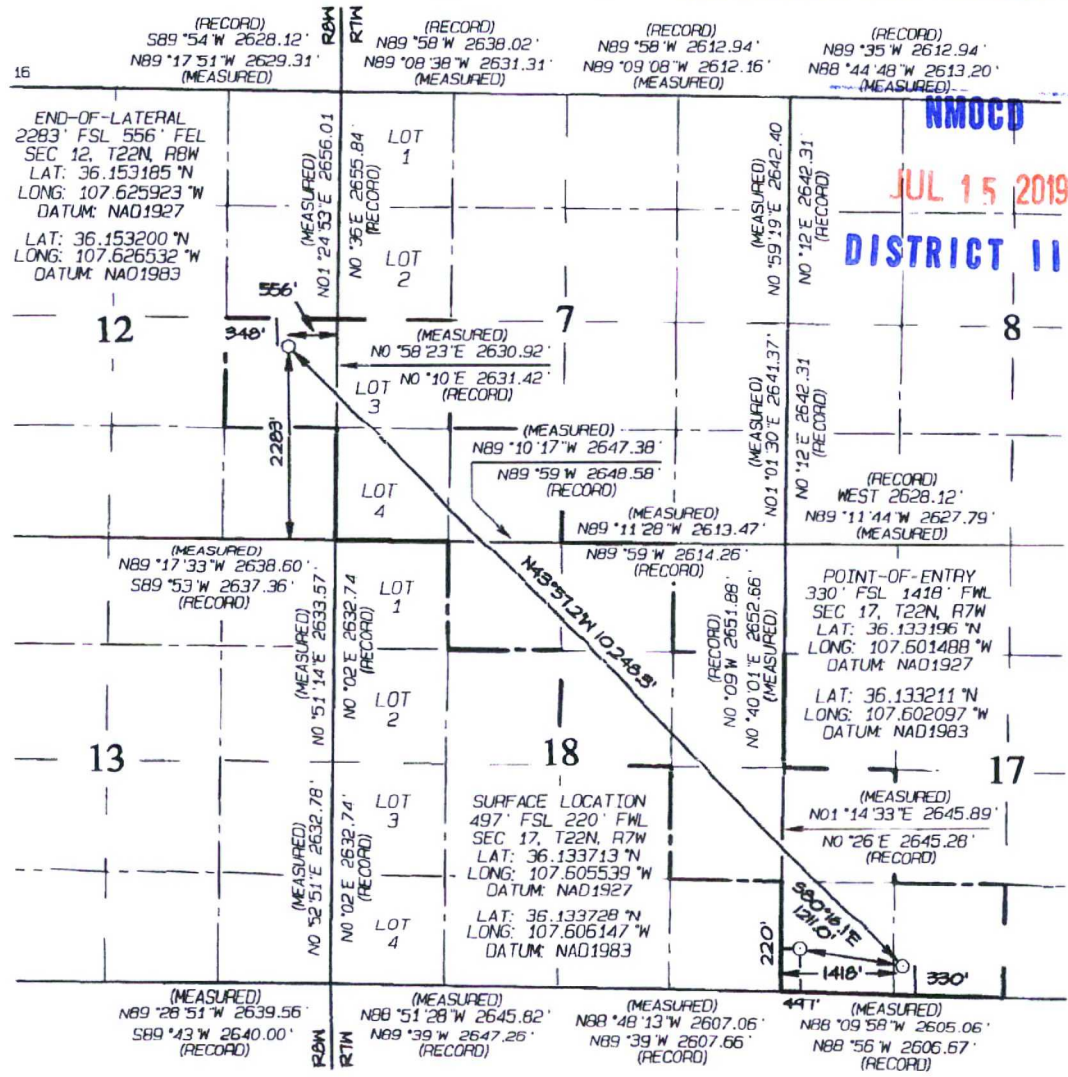
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	12	22N	8W		2283	SOUTH	556	EAST	SAN JUAN

12 Dedicated Acres
481.94
NE/4 SE/4 - Section 12
NE/4 SE/4, SE/4 NE/4
W/2 NE/4, NE/4 NW/4, - Section 18
W/2 SW/4, SE/4 SW/4 - Section 17
W/2 SW/4, SE/4 SW/4 - Section 7

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



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: Lacey Granillo
Printed Name: lgranillo@enduringresources.com
E-mail Address:
Date: 7/9/19

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
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269
JASON C. EDWARDS
Certificate Number 15269



Well: W Escavada Unit Well No. 305H
Site: Section 17-T22N-R07W
Project: San Juan & Sandoval Counties, New Mexico NAD83 NMC
Design: Surveys Original Hole
Rig: Aztec 1000

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N-S	+E-W	V-Sect	Annotation
322.00	0.48	173.15	322.00	-1.34	0.16	-1.08	MWD surveys
5343.00	81.23	312.15	4856.54	-204.78	1193.51	-978.64	330 FSL 1416 FWL @ 5343 MD 4857 TVD
15585.40	89.72	314.65	4702.43	7173.18	-5918.40	9272.69	Frac sleeve @ 15585.4 MD 4702 TVD
15621.00	89.87	314.41	4702.57	7181.11	-5837.70	9268.28	330 F Mid sec 574 FEL @ 15621 MD 4703 TVD
15682.00	89.80	314.23	4702.97	7233.84	-5881.44	9339.25	Survey @ 15682.00 MD 4702.97 TVD
15745.00	89.80	314.23	4703.41	7277.58	-6026.58	9422.22	Survey projected to 15745.00 MD 4703.41 TVD
15745.00	89.80	314.23	4703.41	7277.58	-6026.58	9422.22	Proj. to 15745 MD 244 F Mid sec 685 FEL

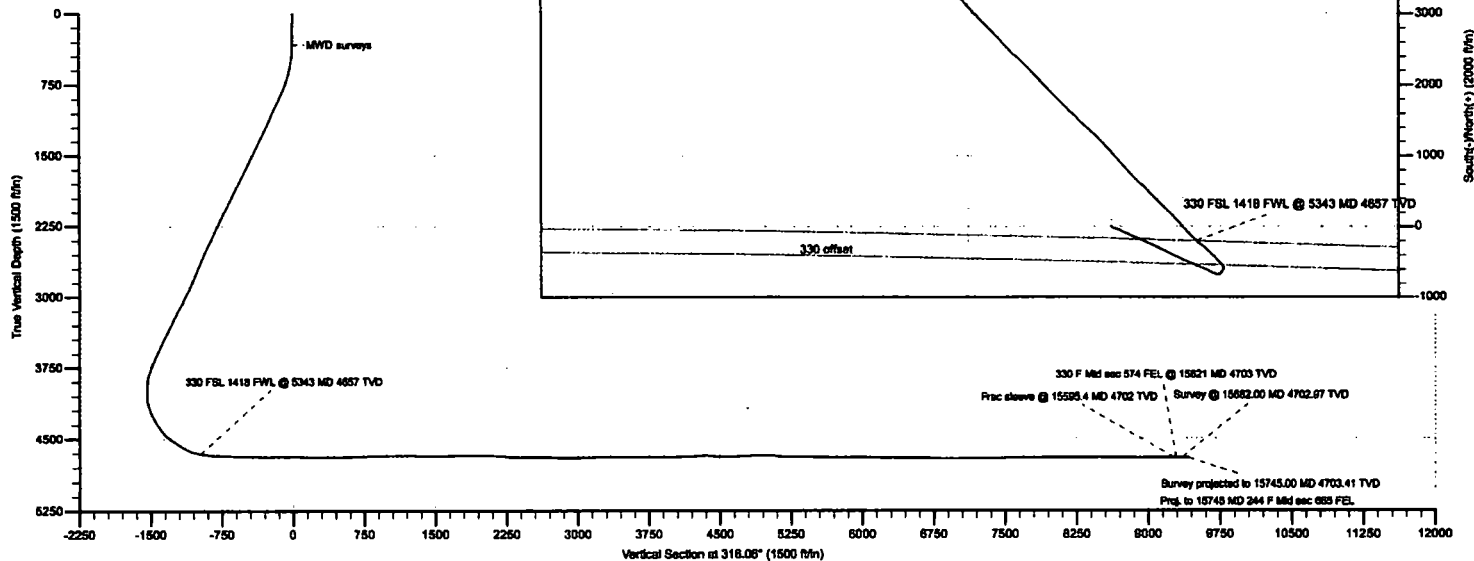
West(-)/East(+) (2000 ft)

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: FOS-6835-25 @ 6830.00 (Aztec 1000)
Northing: 1870737.00
Easting: 1238959.00
Latitude: 36.13372800
Longitude: -107.80814700
Total Corr (M=+G): To convert a Magnetic Direction to a Grid Direction, Add 9.78°



Admuths to Grid North
True North: 0.00°
Magnetic North: 9.78°
Magnetic Field
Strength: 40863.5nT
Dip Angle: 62.83°
Date: 12/1/2018
Model: IGRF2015

MD
MARKSMAN
DIRECTIONAL



CONFIDENTIAL



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 305H
Project:	San Juan & Sandoval Counties, New Mexico NAD83 NMC	TVD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Site:	Section 17-T22N-R07W	MD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Well:	W Escavada Unit Well No. 305H	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	Latitude: 36.13378300
From:	Lat/Long	Easting:	1,239,958.98 usft	Longitude: -107.60614800
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: -0.80 °

Well	W Escavada Unit Well No. 305H, Surf loc: 497 FSL 220 FWL Section 17-T22N-R07W			
Well Position	+N/-S	0.00 ft	Northing: 1,870,737.04 usft	Latitude: 36.13372800
	+E/-W	0.00 ft	Easting: 1,239,959.00 usft	Longitude: -107.60614700
Position Uncertainty		0.00 ft	Wellhead Elevation: ft	Ground Level: 6,805.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/1/2018	8.98	62.83	49,553.25044870

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	316.06

Survey Program	Date 1/16/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
322.00	2,851.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard
2,904.00	15,682.00	MWD (Original Hole)	MWD	OWSG MWD - Standard
15,745.00	15,745.00	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	
322.00	0.48	173.15	322.00	-1.34	0.16	-1.08	0.15	0.15	0.00	
MWD surveys										
412.00	3.99	128.69	411.92	-3.67	2.65	-4.48	4.07	3.90	-49.40	
504.00	9.05	122.12	503.29	-9.52	11.28	-14.69	5.55	5.50	-7.14	
595.00	13.65	122.01	592.49	-19.03	26.46	-32.06	5.05	5.05	-0.12	
686.00	17.98	114.27	680.03	-30.50	48.38	-55.53	5.28	4.76	-8.51	
777.00	22.60	110.65	765.37	-42.44	77.56	-84.38	5.26	5.08	-3.98	



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 305H
Project:	San Juan & Sandoval Counties, New Mexico	TVD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
	NAD83 NMC		
Site:	Section 17-T22N-R07W	MD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Well:	W Escavada Unit Well No. 305H	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)
867.00	27.54	110.23	846.86	-55.74	113.29	-118.75	5.49	5.49	-0.47
962.00	27.91	110.36	830.96	-71.07	154.74	-158.56	0.39	0.39	0.14
1,056.00	27.44	112.99	1,014.20	-87.19	195.31	-198.31	1.39	-0.50	2.80
1,151.00	26.34	113.98	1,098.93	-104.30	234.72	-237.97	1.25	-1.18	1.02
1,245.00	26.63	115.50	1,183.07	-121.84	272.79	-277.02	0.79	0.31	1.64
1,340.00	27.20	115.18	1,267.78	-140.24	311.66	-317.24	0.62	0.60	-0.34
1,435.00	26.79	114.14	1,352.43	-158.23	350.84	-357.39	0.66	-0.43	-1.09
1,529.00	27.50	114.61	1,436.07	-175.93	389.91	-397.24	0.79	0.76	0.50
1,623.00	27.43	114.57	1,519.48	-193.98	429.33	-437.59	0.08	-0.07	-0.04
1,718.00	27.34	115.08	1,603.83	-212.31	468.99	-478.31	0.28	-0.09	0.52
1,812.00	27.12	115.08	1,687.41	-230.54	507.95	-518.47	0.23	-0.23	0.02
1,907.00	26.75	115.25	1,772.11	-248.84	546.90	-558.67	0.40	-0.39	0.18
2,001.00	27.71	115.80	1,855.69	-267.37	585.71	-598.95	1.06	1.02	0.59
2,095.00	28.22	116.71	1,938.72	-286.87	625.24	-640.42	0.71	0.54	0.97
2,189.00	27.87	114.65	2,021.68	-306.03	665.06	-681.85	1.10	-0.37	-2.19
2,284.00	27.80	115.80	2,105.69	-324.86	705.22	-723.28	0.47	-0.07	1.00
2,379.00	27.43	116.83	2,189.87	-344.31	744.73	-764.69	0.72	-0.39	1.29
2,473.00	27.26	114.86	2,273.36	-363.13	783.58	-805.21	0.98	-0.18	-2.10
2,567.00	27.15	115.44	2,356.97	-381.40	822.48	-845.35	0.31	-0.12	0.62
2,662.00	26.98	115.95	2,441.56	-400.14	861.43	-885.88	0.30	-0.18	0.54
2,756.00	25.98	114.67	2,525.70	-418.06	899.31	-925.07	1.22	-1.06	-1.36
2,851.00	24.23	115.11	2,611.72	-435.02	935.88	-962.65	1.85	-1.84	0.46
2,904.00	23.59	115.55	2,680.17	-444.21	955.29	-982.74	1.25	-1.21	0.83
2,999.00	22.38	115.83	2,747.63	-460.29	988.72	-1,017.52	1.28	-1.27	0.29
3,093.00	25.26	117.48	2,833.62	-477.34	1,022.63	-1,053.33	3.14	3.06	1.76
3,187.00	28.14	115.25	2,917.59	-496.06	1,060.48	-1,093.07	3.24	3.06	-2.37
3,281.00	27.95	115.84	3,000.55	-515.12	1,100.36	-1,134.46	0.36	-0.20	0.63
3,375.00	29.70	113.74	3,082.90	-534.09	1,141.50	-1,178.88	2.15	1.86	-2.23
3,470.00	28.26	112.95	3,165.60	-552.62	1,184.43	-1,219.80	0.62	-0.46	-0.83
3,565.00	28.30	112.39	3,248.86	-570.25	1,226.63	-1,261.78	1.05	-1.01	-0.59
3,660.00	26.87	111.99	3,333.06	-586.87	1,267.36	-1,302.01	1.52	-1.51	-0.42
3,755.00	27.98	114.90	3,417.39	-604.29	1,307.48	-1,342.40	1.83	1.17	3.06
3,849.00	26.83	114.65	3,500.84	-622.43	1,348.76	-1,382.71	1.23	-1.22	-0.27
3,943.00	26.59	113.97	3,584.81	-639.82	1,385.27	-1,421.96	0.41	-0.26	-0.72
4,038.00	25.32	112.91	3,670.23	-656.37	1,423.41	-1,460.34	1.42	-1.34	-1.12
4,133.00	23.08	112.20	3,756.87	-671.31	1,459.37	-1,496.05	2.38	-2.36	-0.75
4,164.00	22.22	111.69	3,785.48	-675.77	1,470.44	-1,506.95	2.85	-2.77	-1.65
4,196.00	19.87	109.15	3,815.34	-679.79	1,481.20	-1,517.31	7.88	-7.34	-7.94
4,227.00	15.57	103.65	3,844.87	-682.51	1,490.22	-1,525.52	14.87	-13.87	-17.74
4,259.00	11.78	88.85	3,875.97	-683.45	1,497.67	-1,531.37	16.03	-11.84	-46.25
4,290.00	11.34	71.01	3,906.35	-682.40	1,503.72	-1,534.81	11.57	-1.42	-57.55
4,322.00	12.60	61.39	3,937.65	-679.70	1,509.76	-1,537.06	7.36	3.94	-30.06
4,353.00	14.83	55.11	3,967.77	-675.81	1,515.98	-1,538.58	8.64	7.19	-20.26



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 305H
Project:	San Juan & Sandoval Counties, New Mexico	TVD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Site:	NAD83 NMC	MD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Well:	Section 17-T22N-R07W	North Reference:	Grid
Wellbore:	W Escavada Unit Well No. 305H	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)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,385.00	17.56	50.29	3,998.50	-670.39	1,523.05	-1,539.58	9.50	8.53	-15.06
4,416.00	19.61	46.47	4,027.88	-663.81	1,530.42	-1,539.96	7.69	6.61	-12.32
4,448.00	22.22	41.93	4,057.77	-655.61	1,538.36	-1,539.56	9.60	8.16	-14.19
4,479.00	24.55	34.92	4,086.23	-645.97	1,545.97	-1,537.89	11.70	7.52	-22.61
4,510.00	26.39	25.73	4,114.23	-634.48	1,552.65	-1,534.26	14.05	5.94	-29.65
4,542.00	28.24	16.12	4,142.67	-620.79	1,557.84	-1,528.00	14.93	5.78	-30.03
4,574.00	28.48	7.56	4,170.84	-605.95	1,560.95	-1,519.47	12.71	0.69	-26.75
4,605.00	28.23	358.87	4,198.14	-591.29	1,561.77	-1,509.49	13.32	-0.74	-28.03
4,637.00	28.42	349.32	4,228.32	-576.23	1,560.21	-1,497.57	14.16	0.59	-29.84
4,668.00	28.77	339.85	4,253.56	-561.97	1,556.27	-1,484.57	14.65	1.13	-30.55
4,700.00	29.51	330.09	4,281.52	-547.91	1,549.69	-1,469.86	15.02	2.31	-30.50
4,732.00	30.55	320.40	4,309.24	-534.80	1,540.57	-1,454.10	15.48	3.25	-30.28
4,763.00	32.62	316.63	4,335.65	-522.65	1,529.81	-1,437.88	9.23	6.68	-12.16
4,795.00	34.86	317.60	4,362.26	-509.63	1,517.72	-1,420.12	7.20	7.00	3.03
4,826.00	37.06	318.15	4,387.35	-496.13	1,505.51	-1,401.92	7.17	7.10	1.77
4,858.00	39.31	316.73	4,412.50	-481.56	1,492.12	-1,382.15	7.55	7.03	-4.44
4,889.00	40.98	315.43	4,436.20	-467.17	1,478.28	-1,362.16	6.03	5.39	-4.19
4,921.00	44.26	313.76	4,459.74	-451.96	1,462.83	-1,340.51	10.84	10.25	-5.22
4,952.00	47.38	314.22	4,481.34	-436.52	1,446.83	-1,318.29	10.12	10.06	1.48
4,984.00	50.09	314.27	4,502.45	-419.74	1,429.61	-1,294.25	8.47	8.47	0.16
5,015.00	53.17	313.91	4,521.69	-402.84	1,412.15	-1,269.97	9.98	9.94	-1.16
5,047.00	56.57	313.09	4,540.10	-384.83	1,393.17	-1,243.83	10.83	10.63	-2.56
5,078.00	58.56	313.01	4,556.73	-366.97	1,374.05	-1,217.70	6.42	6.42	-0.26
5,109.00	58.18	313.02	4,572.98	-348.96	1,354.75	-1,191.34	1.23	-1.23	0.03
5,141.00	58.73	312.60	4,589.72	-330.43	1,334.74	-1,164.11	2.05	1.72	-1.31
5,173.00	61.83	312.06	4,605.59	-311.72	1,314.20	-1,136.39	9.80	9.69	-1.69
5,204.00	65.80	311.76	4,619.26	-293.14	1,293.50	-1,108.65	12.84	12.81	-0.97
5,236.00	70.02	311.59	4,631.29	-273.43	1,271.36	-1,079.09	13.20	13.19	-0.53
5,267.00	74.15	311.42	4,640.83	-253.89	1,249.27	-1,049.69	13.33	13.32	-0.55
5,299.00	77.64	310.92	4,648.63	-233.46	1,225.91	-1,018.77	11.01	10.91	-1.56
5,330.00	80.58	311.73	4,654.48	-213.36	1,203.05	-988.44	9.82	9.48	2.61
5,343.00	81.23	312.15	4,656.54	-204.78	1,193.51	-975.64	5.94	5.00	3.26
330 FSL 1416 FWL @ 5343 MD 4657 TVD									
5,362.00	82.18	312.77	4,659.28	-192.09	1,179.64	-956.87	5.94	5.00	3.24
5,457.00	85.16	315.78	4,669.75	-126.18	1,112.05	-862.52	4.44	3.14	3.17
5,551.00	89.16	317.29	4,674.41	-58.06	1,047.48	-768.66	4.55	4.26	1.61
5,645.00	89.02	316.97	4,675.90	10.83	983.54	-674.69	0.37	-0.15	-0.34
5,739.00	88.42	317.23	4,678.00	79.67	919.57	-580.73	0.70	-0.64	0.28
5,834.00	87.55	317.45	4,681.34	149.49	855.23	-485.81	0.94	-0.92	0.23
5,928.00	89.33	315.26	4,683.90	217.47	790.39	-391.86	3.00	1.89	-2.33
6,023.00	89.06	315.46	4,685.24	285.06	723.64	-296.87	0.35	-0.28	0.21
6,117.00	90.57	314.63	4,685.54	351.58	657.23	-202.89	1.83	1.61	-0.88



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 305H
Project:	San Juan & Sandoval Counties, New Mexico	TVD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Site:	NAD83 NMC	MD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Well:	Section 17-T22N-R07W	North Reference:	Grid
Wellbore:	W Escavada Unit Well No. 305H	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)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,212.00	90.37	314.77	4,684.76	418.40	589.70	-107.92	0.26	-0.21	0.15	
6,306.00	89.83	314.95	4,684.60	484.71	523.07	-13.94	0.61	-0.57	0.19	
6,401.00	89.46	316.73	4,685.19	552.85	456.89	81.05	1.91	-0.39	1.87	
6,495.00	88.49	315.01	4,686.87	620.31	391.46	175.03	2.10	-1.03	-1.83	
6,590.00	88.35	314.78	4,689.49	687.34	324.18	269.97	0.28	-0.15	-0.24	
6,684.00	90.44	317.96	4,690.48	755.36	259.34	363.95	4.05	2.22	3.38	
6,778.00	91.24	318.00	4,689.10	825.18	196.43	457.89	0.85	0.85	0.04	
6,873.00	91.11	317.83	4,687.15	895.67	132.77	552.82	0.23	-0.14	-0.18	
6,967.00	91.11	317.98	4,685.33	965.41	69.76	646.75	0.16	0.00	0.16	
7,062.00	91.01	317.85	4,683.58	1,035.90	6.10	741.69	0.17	-0.11	-0.14	
7,156.00	90.74	317.92	4,682.14	1,105.63	-56.93	835.63	0.30	-0.29	0.07	
7,251.00	90.54	317.27	4,681.08	1,175.77	-120.99	930.59	0.72	-0.21	-0.68	
7,345.00	90.40	316.12	4,680.31	1,244.17	-185.46	1,024.58	1.23	-0.15	-1.22	
7,440.00	90.17	314.54	4,679.83	1,311.73	-252.24	1,119.56	1.68	-0.24	-1.66	
7,535.00	90.20	313.27	4,679.53	1,377.60	-320.69	1,214.49	1.34	0.03	-1.34	
7,629.00	89.19	315.44	4,680.03	1,443.31	-387.89	1,308.44	2.55	-1.07	2.31	
7,724.00	89.26	315.11	4,681.31	1,510.81	-454.74	1,403.43	0.36	0.07	-0.35	
7,819.00	89.33	313.88	4,682.48	1,577.38	-522.50	1,498.38	1.30	0.07	-1.29	
7,913.00	89.56	312.86	4,683.39	1,641.93	-590.82	1,592.27	1.11	0.24	-1.09	
8,008.00	91.04	316.79	4,682.90	1,708.88	-658.19	1,687.23	4.42	1.56	4.14	
8,103.00	91.48	316.05	4,680.81	1,777.68	-723.66	1,782.20	0.91	0.46	-0.78	
8,197.00	90.40	315.01	4,679.28	1,844.75	-789.50	1,876.18	1.59	-1.15	-1.11	
8,292.00	90.84	315.34	4,678.24	1,912.13	-856.47	1,971.17	0.58	0.46	0.35	
8,386.00	87.11	315.43	4,679.92	1,979.02	-922.47	2,065.13	3.97	-3.97	0.10	
8,480.00	87.34	315.58	4,684.47	2,045.99	-988.27	2,159.01	0.29	0.24	0.16	
8,574.00	87.38	314.85	4,688.80	2,112.64	-1,054.41	2,252.90	0.78	0.04	-0.78	
8,669.00	88.99	316.28	4,691.81	2,180.43	-1,120.89	2,347.85	2.27	1.69	1.51	
8,764.00	88.89	315.60	4,693.56	2,248.69	-1,186.94	2,442.83	0.72	-0.11	-0.72	
8,858.00	89.33	315.00	4,695.02	2,315.49	-1,253.05	2,536.81	0.79	0.47	-0.64	
8,953.00	89.73	314.66	4,695.80	2,382.47	-1,320.42	2,631.78	0.55	0.42	-0.36	
9,047.00	88.96	317.36	4,696.88	2,450.09	-1,385.70	2,725.77	2.99	-0.82	2.87	
9,141.00	89.46	316.55	4,698.17	2,518.78	-1,449.85	2,819.75	1.01	0.53	-0.86	
9,237.00	90.10	315.98	4,698.54	2,586.14	-1,516.22	2,915.74	0.89	0.67	-0.59	
9,331.00	90.44	315.15	4,698.10	2,655.26	-1,582.03	3,009.74	0.95	0.36	-0.88	
9,426.00	91.21	315.06	4,696.73	2,722.55	-1,649.07	3,104.71	0.82	0.81	-0.09	
9,520.00	91.58	314.54	4,694.44	2,788.76	-1,715.75	3,198.66	0.68	0.39	-0.55	
9,614.00	89.73	317.20	4,693.37	2,856.22	-1,781.19	3,292.64	3.45	-1.87	2.83	
9,709.00	89.60	316.65	4,693.92	2,925.61	-1,846.07	3,387.63	0.59	-0.14	-0.58	
9,803.00	89.50	315.79	4,694.66	2,993.48	-1,911.10	3,481.63	0.92	-0.11	-0.91	
9,898.00	91.04	317.87	4,694.22	3,062.76	-1,976.09	3,576.61	2.72	1.62	2.19	
9,992.00	90.71	317.59	4,692.78	3,132.31	-2,039.31	3,670.56	0.46	-0.35	-0.30	
10,086.00	90.34	316.73	4,691.92	3,201.23	-2,103.22	3,764.54	1.00	-0.39	-0.91	
10,181.00	90.03	315.58	4,691.61	3,269.74	-2,169.03	3,859.53	1.25	-0.33	-1.21	



Survey Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well W Escavada Unit Well No. 305H
Project:	San Juan & Sandoval Counties, New Mexico	TVD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Site:	Section 17-T22N-R07W	MD Reference:	RKB-6805+25 @ 6830.00ft (Aztec 1000)
Well:	W Escavada Unit Well No. 305H	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)
10,275.00	90.71	317.64	4,691.00	3,338.05	-2,233.60	3,953.52	2.31	0.72	2.19
10,370.00	91.15	317.35	4,689.48	3,408.07	-2,297.78	4,048.48	0.55	0.46	-0.31
10,464.00	91.55	316.93	4,687.25	3,476.96	-2,361.70	4,142.44	0.62	0.43	-0.46
10,558.00	92.18	316.47	4,684.19	3,545.33	-2,426.13	4,236.38	0.83	0.67	-0.49
10,652.00	90.24	316.15	4,682.20	3,613.28	-2,491.04	4,330.35	2.09	-2.06	-0.34
10,747.00	88.42	317.36	4,683.31	3,682.48	-2,556.12	4,425.33	2.30	-1.92	1.27
10,842.00	88.76	317.12	4,685.65	3,752.20	-2,620.60	4,520.28	0.44	0.36	-0.25
10,937.00	90.34	317.31	4,686.40	3,821.82	-2,685.13	4,615.26	1.68	1.66	0.20
11,031.00	91.08	315.92	4,685.23	3,890.23	-2,749.69	4,709.24	1.68	0.79	-1.48
11,125.00	92.02	315.81	4,682.69	3,957.55	-2,815.24	4,803.21	1.05	1.00	-0.33
11,220.00	89.83	316.08	4,681.16	4,025.70	-2,881.40	4,898.19	2.36	-2.31	0.49
11,314.00	89.46	315.36	4,681.74	4,092.99	-2,947.03	4,992.18	0.86	-0.39	-0.77
11,409.00	89.50	314.77	4,682.60	4,160.24	-3,014.12	5,087.17	0.62	0.04	-0.62
11,504.00	87.92	316.29	4,684.74	4,228.01	-3,080.65	5,182.13	2.31	-1.66	1.60
11,598.00	88.25	316.66	4,687.88	4,296.13	-3,145.35	5,276.08	0.53	0.35	0.39
11,693.00	88.96	317.06	4,690.20	4,365.43	-3,210.29	5,371.04	0.86	0.75	0.42
11,787.00	89.53	315.72	4,691.43	4,433.48	-3,275.12	5,465.03	1.55	0.61	-1.43
11,882.00	90.50	314.94	4,691.41	4,501.04	-3,341.91	5,560.02	1.31	1.02	-0.82
11,976.00	88.59	317.13	4,692.16	4,568.69	-3,407.15	5,654.00	3.09	-2.03	2.33
12,071.00	89.39	316.24	4,693.83	4,637.80	-3,472.31	5,748.98	1.26	0.84	-0.94
12,165.00	90.57	316.22	4,693.86	4,705.68	-3,537.34	5,842.98	1.26	1.26	-0.02
12,260.00	91.24	315.57	4,692.36	4,773.89	-3,603.45	5,937.97	0.98	0.71	-0.68
12,354.00	88.72	316.47	4,692.40	4,841.52	-3,668.71	6,031.96	2.85	-2.68	0.96
12,449.00	88.15	316.30	4,694.99	4,910.27	-3,734.22	6,126.92	0.63	-0.60	-0.18
12,543.00	88.69	315.92	4,697.58	4,977.99	-3,799.36	6,220.88	0.70	0.57	-0.40
12,637.00	88.86	315.90	4,699.59	5,045.49	-3,864.75	6,314.86	0.18	0.18	-0.02
12,732.00	88.96	315.09	4,701.40	5,113.23	-3,931.33	6,409.84	0.86	0.11	-0.85
12,826.00	89.46	315.18	4,702.69	5,179.85	-3,997.64	6,503.82	0.54	0.53	0.10
12,921.00	89.29	314.28	4,703.73	5,246.70	-4,065.12	6,598.79	0.96	-0.18	-0.95
13,015.00	88.99	316.62	4,705.14	5,313.68	-4,131.06	6,692.76	2.51	-0.32	2.49
13,110.00	89.29	316.39	4,706.57	5,382.59	-4,196.44	6,787.75	0.40	0.32	-0.24
13,204.00	89.60	315.41	4,707.48	5,450.09	-4,261.85	6,881.74	1.09	0.33	-1.04
13,298.00	89.50	316.19	4,708.22	5,518.60	-4,326.19	6,975.72	2.98	-0.11	2.96
13,393.00	89.93	317.54	4,708.69	5,589.05	-4,389.92	7,070.67	0.82	0.45	-0.68
13,487.00	90.50	317.54	4,708.34	5,658.40	-4,453.38	7,164.64	0.61	0.61	0.00
13,582.00	91.24	317.57	4,706.89	5,728.49	-4,517.48	7,259.60	0.78	0.78	0.03
13,675.00	91.38	316.72	4,704.77	5,796.65	-4,580.72	7,352.56	0.93	0.15	-0.91
13,770.00	91.08	316.11	4,702.73	5,865.45	-4,646.20	7,447.53	0.72	-0.32	-0.64
13,864.00	89.56	317.05	4,702.20	5,933.72	-4,710.80	7,541.52	1.90	-1.62	1.00
13,958.00	89.30	316.25	4,703.14	6,002.07	-4,775.33	7,635.51	0.89	-0.28	-0.85
14,053.00	89.21	316.17	4,704.37	6,070.64	-4,841.06	7,730.50	0.13	-0.09	-0.08
14,147.00	89.91	315.73	4,705.10	6,138.20	-4,906.42	7,824.50	0.88	0.74	-0.47



Survey Report

Company: Enduring Resources LLC
Project: San Juan & Sandoval Counties, New Mexico
NAD83 NMC
Site: Section 17-T22N-R07W
Well: W Escavada Unit Well No. 305H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well W Escavada Unit Well No. 305H
TVD Reference: RKB-6805+25 @ 6830.00ft (Aztec 1000)
MD Reference: RKB-6805+25 @ 6830.00ft (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)
14,242.00	90.22	315.55	4,704.99	6,206.12	-4,972.84	7,919.50	0.38	0.33	-0.19
14,336.00	90.44	314.85	4,704.45	6,272.82	-5,039.07	8,013.48	0.78	0.23	-0.74
14,431.00	90.57	314.41	4,703.61	6,339.55	-5,106.68	8,108.45	0.48	0.14	-0.46
14,526.00	90.70	313.27	4,702.56	6,405.35	-5,175.19	8,203.37	1.21	0.14	-1.20
14,620.00	89.60	315.99	4,702.31	6,471.38	-5,242.08	8,297.33	3.12	-1.17	2.89
14,715.00	89.87	316.43	4,702.75	6,539.96	-5,307.82	8,392.33	0.54	0.28	0.46
14,809.00	89.87	316.25	4,702.96	6,607.96	-5,372.72	8,486.33	0.19	0.00	-0.19
14,904.00	90.00	316.43	4,703.07	6,676.69	-5,438.30	8,581.33	0.23	0.14	0.19
14,998.00	90.35	316.61	4,702.78	6,744.90	-5,502.98	8,675.32	0.42	0.37	0.19
15,093.00	89.96	315.82	4,702.53	6,813.48	-5,568.72	8,770.32	0.93	-0.41	-0.83
15,187.00	89.65	315.73	4,702.85	6,880.84	-5,634.28	8,864.32	0.34	-0.33	-0.10
15,282.00	89.82	315.90	4,703.29	6,948.96	-5,700.49	8,959.32	0.25	0.18	0.18
15,376.00	90.62	316.52	4,702.92	7,016.82	-5,765.54	9,053.32	1.08	0.85	0.66
15,470.00	90.18	315.38	4,702.27	7,084.38	-5,830.90	9,147.31	1.30	-0.47	-1.21
15,565.00	89.78	314.94	4,702.30	7,151.74	-5,897.88	9,242.30	0.63	-0.42	-0.46
15,595.40	89.72	314.65	4,702.43	7,173.16	-5,919.46	9,272.69	0.97	-0.19	-0.95
Frac sleeve @ 15595.4 MD 4702 TVD									
15,621.00	89.67	314.41	4,702.57	7,191.11	-5,937.70	9,298.28	0.97	-0.19	-0.95
330 F Mid sec 574 FEL @ 15621 MD 4703 TVD									
15,659.00	89.60	314.05	4,702.81	7,217.62	-5,964.93	9,336.26	0.97	-0.19	-0.95
15,682.00	89.60	314.23	4,702.97	7,233.64	-5,981.44	9,359.25	0.78	0.00	0.78
Survey @ 15682.00 MD 4702.97 TVD									
15,745.00	89.60	314.23	4,703.41	7,277.58	-6,026.58	9,422.22	0.00	0.00	0.00
Survey projected to 15745.00 MD 4703.41 TVD - Proj. to 15745 MD 244 F Mid sec 665 FEL									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
322.00	322.00	-1.34	0.16	MWD surveys
5,343.00	4,656.54	-204.78	1,193.51	330 FSL 1418 FWL @ 5343 MD 4657 TVD
15,595.40	4,702.43	7,173.16	-5,919.46	Frac sleeve @ 15595.4 MD 4702 TVD
15,621.00	4,702.57	7,191.11	-5,937.70	330 F Mid sec 574 FEL @ 15621 MD 4703 TVD
15,682.00	4,702.97	7,233.64	-5,981.44	Survey @ 15682.00 MD 4702.97 TVD
15,745.00	4,703.41	7,277.58	-6,026.58	Survey projected to 15745.00 MD 4703.41 TVD
15,745.00	4,703.41	7,277.58	-6,026.58	Proj. to 15745 MD 244 F Mid sec 665 FEL