

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-043-21329	⁵ Pool Name Rusty Gallup Oil		⁶ Pool Code 52860
⁷ Property Code 322151	⁸ Property Name S ESCAVADA UNIT		⁹ Well Number #359H

II. ¹⁰ Surface Location

UL or lot no. A	Section 30	Township 22N	Range 6W	Lot Idn	Feet from the 51'	North/South Line North	Feet from the 1021'	East/West line East	County Sandoval
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¹¹ Bottom Hole Location

UL or lot no. O	Section 13	Township 22N	Range 7W	Lot Idn	Feet from the 335'	North/South line South	Feet from the 2262'	East/West line East	County Sandoval
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 4/15/2021		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

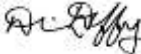
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address		²⁰ O/G/W
248440	WESTERN REFINING COMPANY, LLC		O
373888	HARVEST FOUR CORNERS. LLC		G

IV. Well Completion Data

²¹ Spud Date 7/15/19	²² Ready Date 4/15/2021	²³ TD 13340' MD 4970' TVD	²⁴ PBDT 13198 MD 4970' TVD	²⁵ Perforations ~ 5453'-13241' MD ~ 4924'-4970' TVD	²⁶ DHC, MC R-14347	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		251' MD		315 sx - surface
12-1/4"		9-5/8",36#, J-55		2982' MD		815 sx- surface
8-1/2"		5-1/2",17#, P-110		13326' MD		2300 sx- surface

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION	
Printed name: Deidre Duffy	Approved by:	
Title: Senior Ecologist	Approval Date:	
E-mail Address: Deidre.duffy@wsp.com		
Date: 3/22/2021	Phone: 808-352-0200	

District II
 811 S. First Street, Artesia, NM 88210
 Phone: (505) 748-1283 Fax: (505) 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

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	² Pool Code 52860	³ Pool Name RUSTY GALLUP OIL POOL
⁴ Property Code 322151	⁵ Property Name S ESCAVADA UNIT	⁶ Well Number 359H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6906'

¹⁰ Surface Location

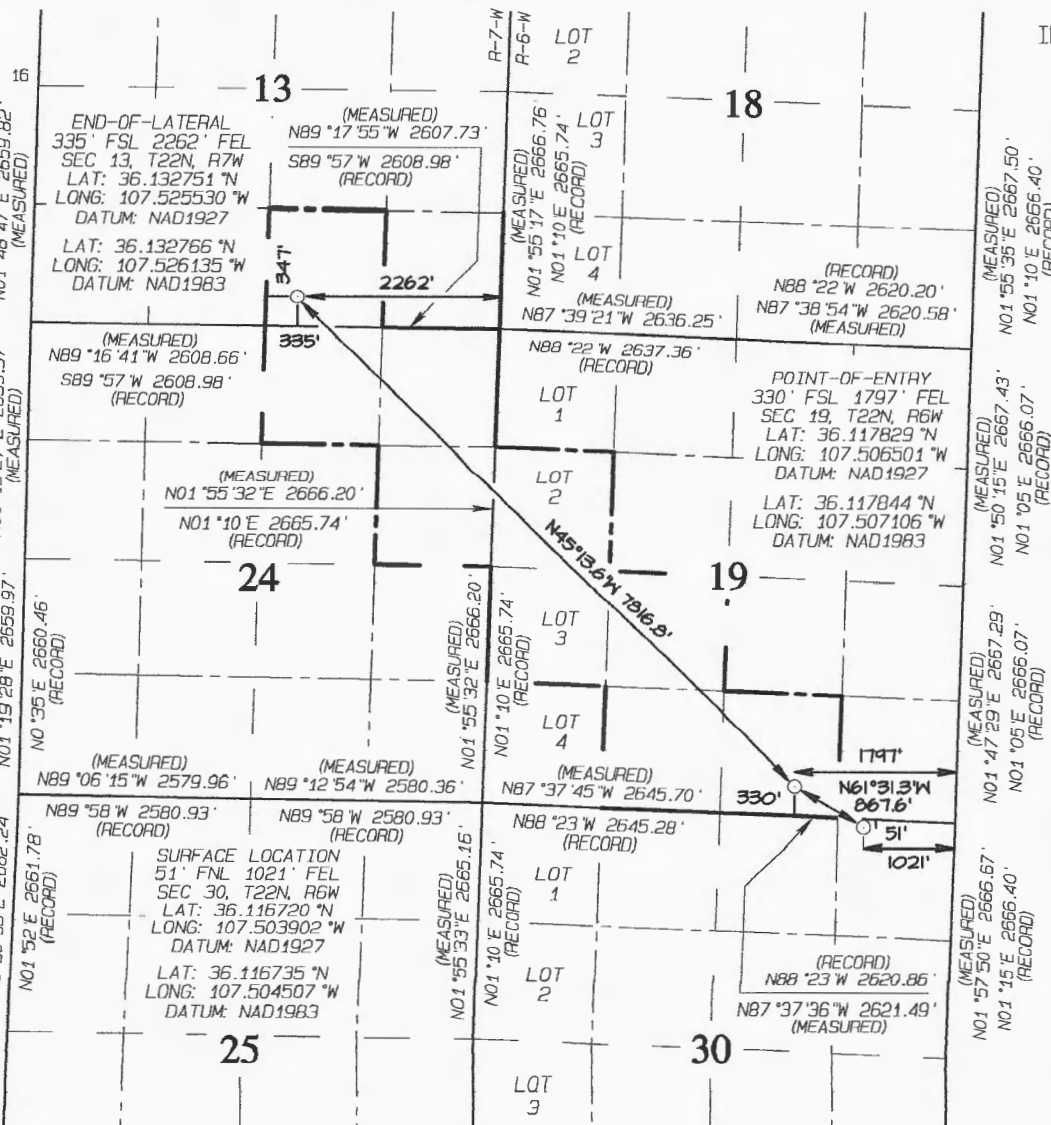
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	22N	6W		51	NORTH	1021	EAST	SANDOVAL

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
0	13	22N	7W		335	SOUTH	2262	EAST	SANDOVAL

¹² Dedicated Acres 361.28	SW/4 SE/4 - Section 13 SW/4 NW/4, N/2 SW/4 SE/4 SW/4, SW/4 SE/4 - Section 19 N/2 NE/4, SE/4 NE/4 - Section 24	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14347
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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



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.

Heather Huntington 2/11/2021
 Signature Date
Heather Huntington
 Printed Name
 hhuntington@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: SEPTEMBER 3, 2019
 Date of Survey: JULY 17, 2018

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
 Certificate Number 15269



Well: S Escavada Unit 359 H
Site: S Escavada Unit
Project: Sandoval County, NM NAD83 NM C
Design: Surveys Original Hole
Rig: Ensign 773

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone

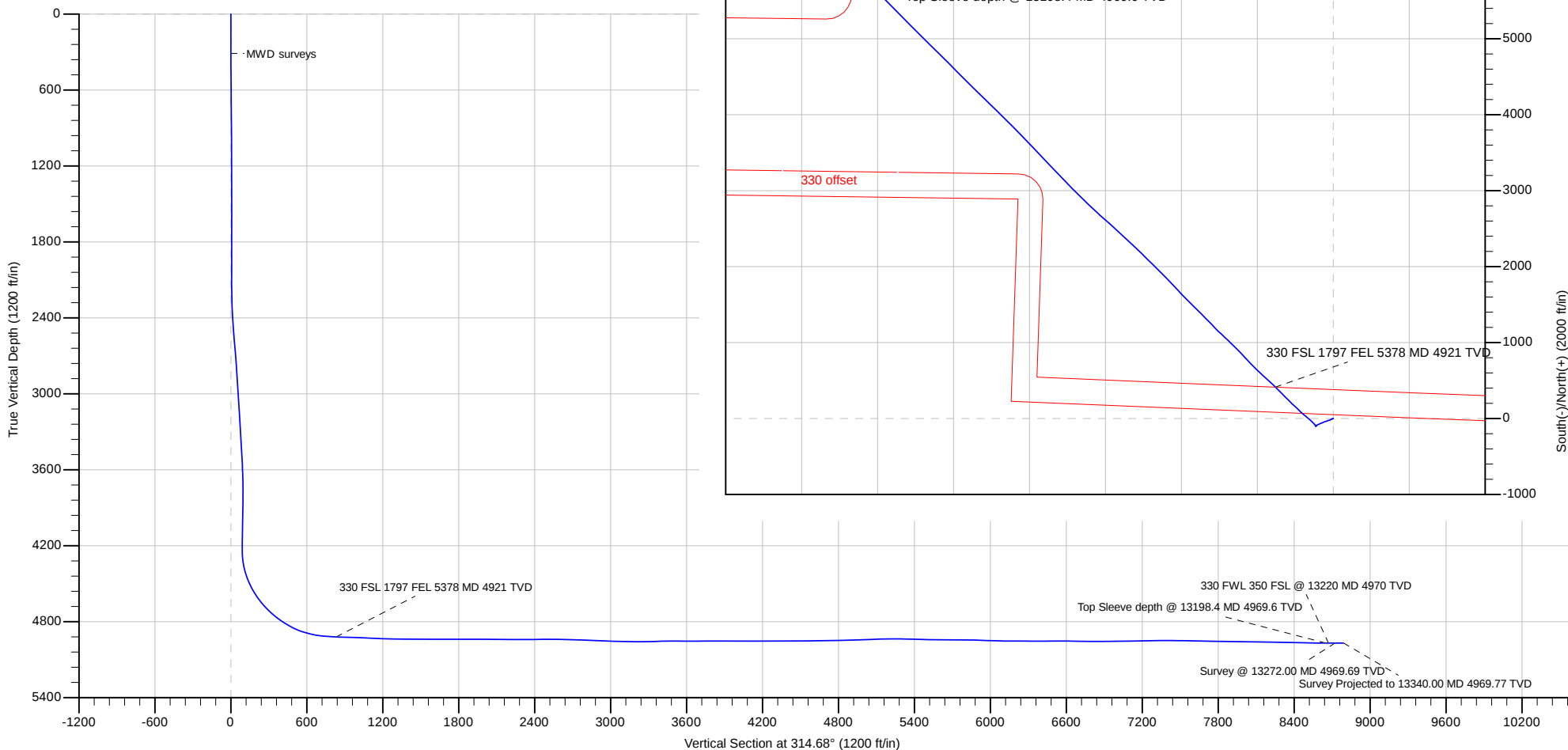
System Datum: Mean Sea Level
Depth Reference: RKB=6906+28 @ 6934.00ft (Ensign 773)
Northing Easting Latitude Longitude
1864147.68 1269894.02 36.11673500 -107.50450700

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 9.605°



Azimuths to Grid North
True North: 0.74°
Magnetic North: 9.61°

Magnetic Field
Strength: 49484.6snT
Dip Angle: 62.83°
Date: 8/3/2019
Model: IGRF2015



ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
311.00	0.50	239.77	311.00	-0.68	-1.17	0.35	MWD surveys
5378.00	88.00	314.05	4920.90	413.76	-762.56	833.15	330 FSL 1797 FEL 5378 MD 4921 TVD
13198.40	89.88	313.00	4969.57	5919.12	-6311.70	8649.91	Top Sleeve depth @ 13198.4 MD 4969.6 TVD
13220.00	89.90	312.83	4969.61	5933.83	-6327.52	8671.50	330 FSL 350 FSL @ 13220 MD 4970 TVD
13272.00	89.93	312.42	4969.69	5969.04	-6365.78	8723.47	Survey @ 13272.00 MD 4969.69 TVD
13340.00	89.93	312.42	4969.77	6014.91	-6415.98	8791.41	Survey Projected to 13340.00 MD 4969.77 TVD



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_v14

Project	Sandoval County, New Mexico NAD83 NM C		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	S Escavada Unit		
Site Position:		Northing:	1,862,785.00 usft
From:	Lat/Long	Easting:	1,257,590.21 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.11254900
		Longitude:	-107.54609400
		Grid Convergence:	-0.764 °

Well	S Escavada Unit 359 H, Surf loc: 51 FNL 1021 FEL Section 30-T22N-R06W		
Well Position	+N/-S	0.00 ft	Northing: 1,864,147.68 usft
	+E/-W	0.00 ft	Easting: 1,269,894.02 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.11673500
		Longitude:	-107.50450700
		Ground Level:	6,906.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/3/2019	8.865	62.826	49,484.63261191

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		314.68

Survey Program	Date	8/30/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
311.00	2,943.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
3,090.00	13,272.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
13,340.00	13,340.00	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	
311.00	0.50	239.77	311.00	-0.68	-1.17	0.35	0.16	0.16	0.00	
MWD surveys										
401.00	0.90	247.93	400.99	-1.15	-2.17	0.73	0.46	0.44	9.07	
494.00	1.01	258.54	493.98	-1.58	-3.65	1.48	0.22	0.12	11.41	
584.00	0.87	270.68	583.96	-1.73	-5.11	2.41	0.27	-0.16	13.49	
674.00	0.77	255.36	673.96	-1.88	-6.38	3.21	0.27	-0.11	-17.02	
765.00	0.84	245.54	764.95	-2.31	-7.57	3.76	0.17	0.08	-10.79	
855.00	0.81	267.95	854.94	-2.60	-8.81	4.43	0.36	-0.03	24.90	



Survey Report



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Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_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)	
945.00	0.81	252.87	944.93	-2.81	-10.05	5.17	0.24	0.00	-16.76	
1,036.00	0.65	272.13	1,035.92	-2.99	-11.19	5.85	0.32	-0.18	21.16	
1,128.00	0.44	257.06	1,127.92	-3.04	-12.05	6.43	0.27	-0.23	-16.38	
1,220.00	0.34	231.60	1,219.91	-3.29	-12.61	6.65	0.21	-0.11	-27.67	
1,310.00	0.31	234.92	1,309.91	-3.60	-13.02	6.73	0.04	-0.03	3.69	
1,401.00	0.24	269.08	1,400.91	-3.74	-13.41	6.90	0.19	-0.08	37.54	
1,490.00	0.31	247.86	1,489.91	-3.84	-13.82	7.13	0.14	0.08	-23.84	
1,581.00	0.00	98.87	1,580.91	-3.93	-14.05	7.22	0.34	-0.34	0.00	
1,673.00	0.21	193.81	1,672.91	-4.09	-14.09	7.14	0.23	0.23	0.00	
1,765.00	0.29	222.14	1,764.91	-4.43	-14.28	7.04	0.16	0.09	30.79	
1,857.00	0.20	210.89	1,856.91	-4.74	-14.52	6.99	0.11	-0.10	-12.23	
1,950.00	0.24	198.69	1,949.91	-5.06	-14.67	6.87	0.07	0.04	-13.12	
2,040.00	0.24	202.39	2,039.91	-5.42	-14.80	6.71	0.02	0.00	4.11	
2,133.00	0.38	198.97	2,132.91	-5.89	-14.97	6.51	0.15	0.15	-3.68	
2,223.00	3.33	246.60	2,222.85	-7.21	-17.47	7.35	3.43	3.28	52.92	
2,314.00	6.55	248.01	2,313.50	-10.20	-24.71	10.40	3.54	3.54	1.55	
2,404.00	9.66	245.04	2,402.59	-15.31	-36.32	15.06	3.49	3.46	-3.30	
2,497.00	10.62	250.91	2,494.14	-21.41	-51.49	21.56	1.52	1.03	6.31	
2,587.00	9.97	251.22	2,582.69	-26.63	-66.71	28.71	0.72	-0.72	0.34	
2,678.00	9.56	248.76	2,672.37	-31.90	-81.21	35.31	0.64	-0.45	-2.70	
2,770.00	9.05	255.06	2,763.16	-36.54	-95.32	42.09	1.24	-0.55	6.85	
2,860.00	9.88	249.41	2,851.94	-41.08	-109.39	48.90	1.38	0.92	-6.28	
2,943.00	9.41	248.00	2,933.77	-46.12	-122.35	54.56	0.63	-0.57	-1.70	
3,090.00	8.22	242.71	3,079.03	-55.44	-142.83	62.57	0.98	-0.81	-3.60	
3,182.00	10.17	248.08	3,169.85	-61.49	-156.21	67.83	2.31	2.12	5.84	
3,275.00	9.53	248.36	3,261.47	-67.40	-170.98	74.19	0.69	-0.69	0.30	
3,367.00	9.00	248.29	3,352.27	-72.87	-184.75	80.13	0.58	-0.58	-0.08	
3,459.00	9.01	246.60	3,443.14	-78.39	-198.04	85.70	0.29	0.01	-1.84	
3,551.00	7.72	240.45	3,534.16	-84.30	-210.03	90.07	1.70	-1.40	-6.68	
3,644.00	5.85	247.60	3,626.51	-89.19	-219.85	93.61	2.20	-2.01	7.69	
3,735.00	3.72	234.98	3,717.19	-92.65	-226.55	95.95	2.60	-2.34	-13.87	
3,827.00	1.71	219.20	3,809.08	-95.42	-229.87	96.35	2.31	-2.18	-17.15	
3,917.00	1.28	144.56	3,899.06	-97.28	-230.13	95.23	2.05	-0.48	-82.93	
4,010.00	1.11	146.35	3,992.04	-98.88	-229.03	93.32	0.19	-0.18	1.92	
4,102.00	1.01	147.94	4,084.02	-100.31	-228.11	91.66	0.11	-0.11	1.73	
4,194.00	0.74	160.17	4,176.01	-101.55	-227.47	90.34	0.36	-0.29	13.29	
4,240.00	0.00	98.87	4,222.01	-101.83	-227.37	90.07	1.61	-1.61	0.00	
4,286.00	2.79	310.66	4,267.99	-101.10	-228.22	91.19	6.07	6.07	0.00	
4,332.00	6.72	322.30	4,313.82	-98.24	-230.72	94.97	8.75	8.54	25.30	
4,378.00	11.46	325.46	4,359.23	-92.35	-234.96	102.13	10.36	10.30	6.87	
4,423.00	15.80	324.14	4,402.96	-83.70	-241.09	112.57	9.67	9.64	-2.93	
4,468.00	19.59	318.89	4,445.82	-73.04	-249.64	126.14	9.13	8.42	-11.67	
4,513.00	23.03	316.40	4,487.74	-60.98	-260.67	142.47	7.90	7.64	-5.53	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_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)
4,560.00	27.49	314.92	4,530.24	-46.66	-274.70	162.52	9.58	9.49	-3.15
4,606.00	31.26	312.12	4,570.32	-31.15	-291.08	185.07	8.72	8.20	-6.09
4,653.00	34.87	310.24	4,609.70	-14.28	-310.39	210.65	7.98	7.68	-4.00
4,699.00	38.90	309.75	4,646.48	3.45	-331.54	238.17	8.78	8.76	-1.07
4,745.00	42.72	309.93	4,681.29	22.71	-354.61	268.12	8.31	8.30	0.39
4,790.00	46.50	310.23	4,713.32	43.06	-378.79	299.61	8.41	8.40	0.67
4,837.00	49.87	311.28	4,744.66	65.93	-405.31	334.55	7.36	7.17	2.23
4,883.00	53.56	312.83	4,773.15	90.12	-432.11	370.61	8.45	8.02	3.37
4,929.00	57.05	314.07	4,799.33	116.13	-459.55	408.42	7.90	7.59	2.70
4,975.00	57.68	313.22	4,824.14	142.86	-487.59	447.15	2.07	1.37	-1.85
5,022.00	62.32	312.57	4,847.63	170.56	-517.40	487.82	9.94	9.87	-1.38
5,068.00	68.31	314.16	4,866.84	199.25	-547.76	529.59	13.39	13.02	3.46
5,112.00	73.09	315.69	4,881.38	228.57	-577.15	571.10	11.35	10.86	3.48
5,156.00	74.76	315.60	4,893.56	258.80	-606.71	613.37	3.80	3.80	-0.20
5,202.00	78.91	315.21	4,904.03	290.69	-638.15	658.15	9.06	9.02	-0.85
5,249.00	83.26	315.19	4,911.32	323.63	-670.86	704.57	9.26	9.26	-0.04
5,295.00	84.21	314.47	4,916.34	355.87	-703.29	750.29	2.59	2.07	-1.57
5,339.00	87.71	314.37	4,919.43	386.58	-734.63	794.18	7.96	7.95	-0.23
5,378.00	88.00	314.05	4,920.90	413.76	-762.56	833.15	1.11	0.74	-0.83
330 FSL 1797 FEL 5378 MD 4921 TVD									
5,385.00	88.05	313.99	4,921.14	418.62	-767.60	840.14	1.11	0.74	-0.83
5,478.00	88.22	313.44	4,924.16	482.85	-834.78	933.08	0.62	0.18	-0.59
5,570.00	87.55	312.42	4,927.56	545.47	-902.09	1,024.97	1.33	-0.73	-1.11
5,662.00	87.68	312.39	4,931.39	607.46	-969.97	1,116.82	0.15	0.14	-0.03
5,754.00	87.58	315.71	4,935.19	671.36	-1,036.02	1,208.72	3.61	-0.11	3.61
5,845.00	89.43	316.35	4,937.57	736.83	-1,099.18	1,299.66	2.15	2.03	0.70
5,937.00	89.60	316.23	4,938.35	803.33	-1,162.75	1,391.62	0.23	0.18	-0.13
6,028.00	90.00	316.50	4,938.66	869.19	-1,225.54	1,482.58	0.53	0.44	0.30
6,120.00	89.33	314.73	4,939.20	934.93	-1,289.89	1,574.57	2.06	-0.73	-1.92
6,211.00	90.00	314.40	4,939.73	998.79	-1,354.72	1,665.56	0.82	0.74	-0.36
6,301.00	89.70	313.04	4,939.97	1,060.99	-1,419.77	1,755.55	1.55	-0.33	-1.51
6,391.00	90.37	312.88	4,939.91	1,122.32	-1,485.63	1,845.51	0.77	0.74	-0.18
6,482.00	89.36	316.00	4,940.13	1,186.03	-1,550.60	1,936.49	3.60	-1.11	3.43
6,574.00	90.34	316.46	4,940.37	1,252.46	-1,614.24	2,028.46	1.18	1.07	0.50
6,666.00	88.99	315.45	4,940.91	1,318.59	-1,678.19	2,120.43	1.83	-1.47	-1.10
6,758.00	90.60	315.13	4,941.24	1,383.97	-1,742.91	2,212.42	1.78	1.75	-0.35
6,850.00	89.63	314.17	4,941.05	1,448.62	-1,808.36	2,304.42	1.48	-1.05	-1.04
6,943.00	90.84	313.64	4,940.67	1,513.11	-1,875.37	2,397.41	1.42	1.30	-0.57
7,035.00	89.63	316.09	4,940.29	1,578.00	-1,940.57	2,489.40	2.97	-1.32	2.66
7,125.00	90.27	316.68	4,940.37	1,643.16	-2,002.65	2,579.36	0.97	0.71	0.66
7,217.00	88.18	317.15	4,941.62	1,710.34	-2,065.48	2,671.27	2.33	-2.27	0.51
7,310.00	87.61	316.43	4,945.03	1,778.08	-2,129.11	2,764.15	0.99	-0.61	-0.77
7,402.00	87.98	315.48	4,948.57	1,844.16	-2,193.03	2,856.05	1.11	0.40	-1.03
7,492.00	87.45	315.08	4,952.16	1,908.06	-2,256.30	2,945.98	0.74	-0.59	-0.44



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_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)
7,584.00	87.95	314.76	4,955.85	1,972.97	-2,321.40	3,037.90	0.65	0.54	-0.35
7,675.00	88.22	314.76	4,958.89	2,037.01	-2,385.97	3,128.85	0.30	0.30	0.00
7,767.00	91.58	314.72	4,959.05	2,101.76	-2,451.31	3,220.84	3.65	3.65	-0.04
7,859.00	91.61	314.31	4,956.49	2,166.23	-2,516.89	3,312.80	0.45	0.03	-0.45
7,951.00	91.82	314.35	4,953.74	2,230.49	-2,582.67	3,404.76	0.23	0.23	0.04
8,042.00	89.66	313.16	4,952.56	2,293.42	-2,648.39	3,495.73	2.71	-2.37	-1.31
8,134.00	88.86	311.51	4,953.75	2,355.37	-2,716.39	3,587.64	1.99	-0.87	-1.79
8,224.00	90.57	313.57	4,954.20	2,416.21	-2,782.70	3,677.57	2.97	1.90	2.29
8,316.00	91.21	313.04	4,952.77	2,479.30	-2,849.64	3,769.53	0.90	0.70	-0.58
8,408.00	89.16	311.94	4,952.47	2,541.44	-2,917.47	3,861.46	2.53	-2.23	-1.20
8,500.00	90.00	311.07	4,953.15	2,602.41	-2,986.37	3,953.31	1.31	0.91	-0.95
8,591.00	90.00	310.99	4,953.15	2,662.14	-3,055.01	4,044.13	0.09	0.00	-0.09
8,681.00	89.39	313.09	4,953.63	2,722.41	-3,121.85	4,134.03	2.43	-0.68	2.33
8,773.00	90.00	312.66	4,954.12	2,785.00	-3,189.27	4,225.98	0.81	0.66	-0.47
8,864.00	90.44	315.00	4,953.77	2,848.02	-3,254.91	4,316.96	2.62	0.48	2.57
8,956.00	90.81	315.14	4,952.76	2,913.15	-3,319.88	4,408.95	0.43	0.40	0.15
9,047.00	90.34	314.63	4,951.85	2,977.36	-3,384.35	4,499.95	0.76	-0.52	-0.56
9,139.00	89.29	314.35	4,952.15	3,041.83	-3,449.98	4,591.95	1.18	-1.14	-0.30
9,230.00	90.97	316.37	4,951.94	3,106.57	-3,513.92	4,682.93	2.89	1.85	2.22
9,320.00	91.31	316.25	4,950.15	3,171.64	-3,576.07	4,772.88	0.40	0.38	-0.13
9,412.00	91.85	316.53	4,947.61	3,238.23	-3,639.51	4,864.80	0.66	0.59	0.30
9,503.00	92.02	316.28	4,944.54	3,304.09	-3,702.22	4,955.71	0.33	0.19	-0.27
9,593.00	92.39	316.17	4,941.08	3,369.03	-3,764.44	5,045.61	0.43	0.41	-0.12
9,686.00	91.98	316.34	4,937.53	3,436.17	-3,828.70	5,138.51	0.48	-0.44	0.18
9,778.00	90.13	317.17	4,935.84	3,503.17	-3,891.71	5,230.42	2.20	-2.01	0.90
9,870.00	88.05	316.53	4,937.30	3,570.28	-3,954.62	5,322.34	2.37	-2.26	-0.70
9,962.00	88.62	316.32	4,939.97	3,636.90	-4,018.01	5,414.26	0.66	0.62	-0.23
10,055.00	88.76	315.63	4,942.10	3,703.75	-4,082.63	5,507.21	0.76	0.15	-0.74
10,147.00	89.06	315.12	4,943.85	3,769.22	-4,147.24	5,599.19	0.64	0.33	-0.55
10,239.00	89.60	315.46	4,944.93	3,834.60	-4,211.96	5,691.18	0.69	0.59	0.37
10,330.00	90.27	314.71	4,945.03	3,899.04	-4,276.21	5,782.17	1.11	0.74	-0.82
10,422.00	88.15	314.58	4,946.30	3,963.68	-4,341.66	5,874.16	2.31	-2.30	-0.14
10,515.00	88.12	314.51	4,949.32	4,028.88	-4,407.90	5,967.11	0.08	-0.03	-0.08
10,607.00	88.72	314.45	4,951.86	4,093.31	-4,473.52	6,059.07	0.66	0.65	-0.07
10,700.00	89.90	314.83	4,952.98	4,158.66	-4,539.68	6,152.06	1.33	1.27	0.41
10,792.00	89.46	313.98	4,953.49	4,223.03	-4,605.41	6,244.06	1.04	-0.48	-0.92
10,884.00	89.53	312.81	4,954.30	4,286.23	-4,672.26	6,336.03	1.27	0.08	-1.27
10,974.00	89.97	315.02	4,954.70	4,348.65	-4,737.08	6,426.02	2.50	0.49	2.46
11,066.00	91.41	315.28	4,953.59	4,413.87	-4,801.96	6,518.00	1.59	1.57	0.28
11,158.00	88.96	315.76	4,953.29	4,479.50	-4,866.42	6,609.99	2.71	-2.66	0.52
11,250.00	89.06	315.36	4,954.88	4,545.18	-4,930.82	6,701.96	0.45	0.11	-0.43
11,342.00	89.50	315.18	4,956.04	4,610.53	-4,995.56	6,793.95	0.52	0.48	-0.20
11,435.00	90.03	314.73	4,956.42	4,676.24	-5,061.37	6,886.95	0.75	0.57	-0.48



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_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)
11,527.00	90.50	314.95	4,955.99	4,741.11	-5,126.61	6,978.95	0.56	0.51	0.24
11,616.00	91.11	314.64	4,954.74	4,803.81	-5,189.76	7,067.94	0.77	0.69	-0.35
11,708.00	91.21	314.70	4,952.88	4,868.48	-5,255.17	7,159.92	0.13	0.11	0.07
11,797.00	91.98	314.33	4,950.40	4,930.85	-5,318.61	7,248.88	0.96	0.87	-0.42
11,889.00	89.29	314.91	4,949.38	4,995.46	-5,384.08	7,340.87	2.99	-2.92	0.63
11,982.00	90.17	314.86	4,949.82	5,061.09	-5,449.98	7,433.86	0.95	0.95	-0.05
12,072.00	88.29	315.22	4,951.03	5,124.76	-5,513.56	7,523.85	2.13	-2.09	0.40
12,164.00	88.92	314.95	4,953.27	5,189.90	-5,578.50	7,615.82	0.74	0.68	-0.29
12,257.00	89.16	315.26	4,954.83	5,255.77	-5,644.13	7,708.80	0.42	0.26	0.33
12,349.00	89.39	314.33	4,955.99	5,320.58	-5,709.41	7,800.80	1.04	0.25	-1.01
12,441.00	89.60	315.28	4,956.81	5,385.41	-5,774.68	7,892.79	1.06	0.23	1.03
12,533.00	88.59	316.62	4,958.26	5,451.52	-5,838.64	7,984.75	1.82	-1.10	1.46
12,626.00	88.22	315.62	4,960.85	5,518.53	-5,903.08	8,077.69	1.15	-0.40	-1.08
12,718.00	88.99	315.57	4,963.09	5,584.24	-5,967.43	8,169.65	0.84	0.84	-0.05
12,810.00	90.50	315.19	4,963.50	5,649.72	-6,032.05	8,261.64	1.69	1.64	-0.41
12,903.00	88.42	314.58	4,964.37	5,715.34	-6,097.93	8,354.63	2.33	-2.24	-0.66
12,995.00	88.79	314.01	4,966.61	5,779.57	-6,163.76	8,446.60	0.74	0.40	-0.62
13,087.00	88.86	313.13	4,968.50	5,842.96	-6,230.41	8,538.56	0.96	0.08	-0.96
13,180.00	89.87	313.15	4,969.53	5,906.55	-6,298.26	8,631.52	1.09	1.09	0.02
13,198.40	89.88	313.00	4,969.57	5,919.12	-6,311.70	8,649.91	0.80	0.07	-0.79
Top Sleeve depth @ 13198.4 MD 4969.6 TVD									
13,220.00	89.90	312.83	4,969.61	5,933.83	-6,327.52	8,671.50	0.80	0.07	-0.79
330 FWL 350 FSL @ 13220 MD 4970 TVD									
13,272.00	89.93	312.42	4,969.69	5,969.04	-6,365.78	8,723.47	0.80	0.07	-0.79
Survey @ 13272.00 MD 4969.69 TVD									
13,340.00	89.93	312.42	4,969.77	6,014.91	-6,415.98	8,791.41	0.00	0.00	0.00
Survey Projected to 13340.00 MD 4969.77 TVD									

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
311.00	311.00	-0.68	-1.17	MWD surveys	
5,378.00	4,920.90	413.76	-762.56	330 FSL 1797 FEL 5378 MD 4921 TVD	
13,198.40	4,969.57	5,919.12	-6,311.70	Top Sleeve depth @ 13198.4 MD 4969.6 TVD	
13,220.00	4,969.61	5,933.83	-6,327.52	330 FWL 350 FSL @ 13220 MD 4970 TVD	
13,272.00	4,969.69	5,969.04	-6,365.78	Survey @ 13272.00 MD 4969.69 TVD	
13,340.00	4,969.77	6,014.91	-6,415.98	Survey Projected to 13340.00 MD 4969.77 TVD	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_v14

Project	Sandoval County, New Mexico NAD83 NM C		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	S Escavada Unit		
Site Position:		Northing:	1,862,785.00 usft
From:	Lat/Long	Easting:	1,257,590.21 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.11254900
		Longitude:	-107.54609400
		Grid Convergence:	-0.764 °

Well	S Escavada Unit 359 H, Surf loc: 51 FNL 1021 FEL Section 30-T22N-R06W		
Well Position	+N/-S	0.00 ft	Northing: 1,864,147.68 usft
	+E/-W	0.00 ft	Easting: 1,269,894.02 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.11673500
		Longitude:	-107.50450700
		Ground Level:	6,906.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/3/2019	8.865	62.826	49,484.63261191

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		314.68

Survey Program	Date	8/30/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
311.00	2,943.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
3,090.00	13,272.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
13,340.00	13,340.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,864,147.68	1,269,894.02	36.11673500	-107.50450700
311.00	0.50	239.77	311.00	-0.68	-1.17	1,864,147.00	1,269,892.85	36.11673308	-107.50451094
MWD surveys									
401.00	0.90	247.93	400.99	-1.15	-2.17	1,864,146.53	1,269,891.85	36.11673177	-107.50451429
494.00	1.01	258.54	493.98	-1.58	-3.65	1,864,146.10	1,269,890.37	36.11673052	-107.50451928
584.00	0.87	270.68	583.96	-1.73	-5.11	1,864,145.95	1,269,888.91	36.11673006	-107.50452422
674.00	0.77	255.36	673.96	-1.88	-6.38	1,864,145.80	1,269,887.64	36.11672962	-107.50452850
765.00	0.84	245.54	764.95	-2.31	-7.57	1,864,145.37	1,269,886.45	36.11672839	-107.50453254
855.00	0.81	267.95	854.94	-2.60	-8.81	1,864,145.07	1,269,885.21	36.11672753	-107.50453671
945.00	0.81	252.87	944.93	-2.81	-10.05	1,864,144.86	1,269,883.97	36.11672691	-107.50454092



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_v14

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,036.00	0.65	272.13	1,035.92	-2.99	-11.19	1,864,144.69	1,269,882.84	36.11672640	-107.50454474
1,128.00	0.44	257.06	1,127.92	-3.04	-12.05	1,864,144.63	1,269,881.97	36.11672621	-107.50454766
1,220.00	0.34	231.60	1,219.91	-3.29	-12.61	1,864,144.39	1,269,881.41	36.11672551	-107.50454954
1,310.00	0.31	234.92	1,309.91	-3.60	-13.02	1,864,144.08	1,269,881.00	36.11672465	-107.50455091
1,401.00	0.24	269.08	1,400.91	-3.74	-13.41	1,864,143.94	1,269,880.61	36.11672424	-107.50455223
1,490.00	0.31	247.86	1,489.91	-3.84	-13.82	1,864,143.84	1,269,880.20	36.11672397	-107.50455361
1,581.00	0.00	98.87	1,580.91	-3.93	-14.05	1,864,143.75	1,269,879.97	36.11672371	-107.50455438
1,673.00	0.21	193.81	1,672.91	-4.09	-14.09	1,864,143.59	1,269,879.93	36.11672326	-107.50455451
1,765.00	0.29	222.14	1,764.91	-4.43	-14.28	1,864,143.25	1,269,879.74	36.11672232	-107.50455516
1,857.00	0.20	210.89	1,856.91	-4.74	-14.52	1,864,142.94	1,269,879.50	36.11672146	-107.50455596
1,950.00	0.24	198.69	1,949.91	-5.06	-14.67	1,864,142.61	1,269,879.35	36.11672057	-107.50455643
2,040.00	0.24	202.39	2,039.91	-5.42	-14.80	1,864,142.26	1,269,879.22	36.11671960	-107.50455687
2,133.00	0.38	198.97	2,132.91	-5.89	-14.97	1,864,141.79	1,269,879.05	36.11671829	-107.50455744
2,223.00	3.33	246.60	2,222.85	-7.21	-17.47	1,864,140.47	1,269,876.55	36.11671458	-107.50456583
2,314.00	6.55	248.01	2,313.50	-10.20	-24.71	1,864,137.48	1,269,869.31	36.11670610	-107.50459021
2,404.00	9.66	245.04	2,402.59	-15.31	-36.32	1,864,132.37	1,269,857.70	36.11669165	-107.50462928
2,497.00	10.62	250.91	2,494.14	-21.41	-51.49	1,864,126.27	1,269,842.53	36.11667437	-107.50468037
2,587.00	9.97	251.22	2,582.69	-26.63	-66.71	1,864,121.05	1,269,827.31	36.11665950	-107.50473164
2,678.00	9.56	248.76	2,672.37	-31.90	-81.21	1,864,115.78	1,269,812.81	36.11664450	-107.50478050
2,770.00	9.05	255.06	2,763.16	-36.54	-95.32	1,864,111.14	1,269,798.70	36.11663127	-107.50482807
2,860.00	9.88	249.41	2,851.94	-41.08	-109.39	1,864,106.60	1,269,784.63	36.11661830	-107.50487549
2,943.00	9.41	248.00	2,933.77	-46.12	-122.35	1,864,101.56	1,269,771.68	36.11660398	-107.50491913
3,090.00	8.22	242.71	3,079.03	-55.44	-142.83	1,864,092.24	1,269,751.19	36.11657766	-107.50498806
3,182.00	10.17	248.08	3,169.85	-61.49	-156.21	1,864,086.19	1,269,737.81	36.11656057	-107.50503309
3,275.00	9.53	248.36	3,261.47	-67.40	-170.98	1,864,080.28	1,269,723.04	36.11654383	-107.50508284
3,367.00	9.00	248.29	3,352.27	-72.87	-184.75	1,864,074.81	1,269,709.27	36.11652832	-107.50512919
3,459.00	9.01	246.60	3,443.14	-78.39	-198.04	1,864,069.29	1,269,695.98	36.11651268	-107.50517396
3,551.00	7.72	240.45	3,534.16	-84.30	-210.03	1,864,063.38	1,269,683.99	36.11649602	-107.50521428
3,644.00	5.85	247.60	3,626.51	-89.19	-219.85	1,864,058.49	1,269,674.17	36.11648225	-107.50524730
3,735.00	3.72	234.98	3,717.19	-92.65	-226.55	1,864,055.03	1,269,667.47	36.11647251	-107.50526985
3,827.00	1.71	219.20	3,809.08	-95.42	-229.87	1,864,052.26	1,269,664.15	36.11646476	-107.50528094
3,917.00	1.28	144.56	3,899.06	-97.28	-230.13	1,864,050.40	1,269,663.89	36.11645965	-107.50528176
4,010.00	1.11	146.35	3,992.04	-98.88	-229.03	1,864,048.80	1,269,664.99	36.11645530	-107.50527796
4,102.00	1.01	147.94	4,084.02	-100.31	-228.11	1,864,047.37	1,269,665.91	36.11645141	-107.50527477
4,194.00	0.74	160.17	4,176.01	-101.55	-227.47	1,864,046.12	1,269,666.55	36.11644801	-107.50527257
4,240.00	0.00	98.87	4,222.01	-101.83	-227.37	1,864,045.85	1,269,666.65	36.11644725	-107.50527222
4,286.00	2.79	310.66	4,267.99	-101.10	-228.22	1,864,046.57	1,269,665.80	36.11644922	-107.50527513
4,332.00	6.72	322.30	4,313.82	-98.24	-230.72	1,864,049.43	1,269,663.30	36.11645699	-107.50528370
4,378.00	11.46	325.46	4,359.23	-92.35	-234.96	1,864,055.33	1,269,659.06	36.11647303	-107.50529831
4,423.00	15.80	324.14	4,402.96	-83.70	-241.09	1,864,063.98	1,269,652.94	36.11649658	-107.50531943
4,468.00	19.59	318.89	4,445.82	-73.04	-249.64	1,864,074.64	1,269,644.38	36.11652553	-107.50534884
4,513.00	23.03	316.40	4,487.74	-60.98	-260.67	1,864,086.70	1,269,633.35	36.11655827	-107.50538672
4,560.00	27.49	314.92	4,530.24	-46.66	-274.70	1,864,101.02	1,269,619.32	36.11659712	-107.50543483
4,606.00	31.26	312.12	4,570.32	-31.15	-291.08	1,864,116.53	1,269,602.94	36.11663913	-107.50549095
4,653.00	34.87	310.24	4,609.70	-14.28	-310.39	1,864,133.40	1,269,583.64	36.11668476	-107.50555705
4,699.00	38.90	309.75	4,646.48	3.45	-331.54	1,864,151.13	1,269,562.49	36.11673273	-107.50562942
4,745.00	42.72	309.93	4,681.29	22.71	-354.61	1,864,170.39	1,269,539.41	36.11678480	-107.50570838
4,790.00	46.50	310.23	4,713.32	43.06	-378.79	1,864,190.74	1,269,515.23	36.11683982	-107.50579110
4,837.00	49.87	311.28	4,744.66	65.93	-405.31	1,864,213.61	1,269,488.71	36.11690169	-107.50588189
4,883.00	53.56	312.83	4,773.15	90.12	-432.11	1,864,237.80	1,269,461.91	36.11696718	-107.50597365
4,929.00	57.05	314.07	4,799.33	116.13	-459.55	1,864,263.81	1,269,434.47	36.11703765	-107.50606769
4,975.00	57.68	313.22	4,824.14	142.86	-487.59	1,864,290.54	1,269,406.43	36.11711008	-107.50616375
5,022.00	62.32	312.57	4,847.63	170.56	-517.40	1,864,318.24	1,269,376.62	36.11718508	-107.50626589
5,068.00	68.31	314.16	4,866.84	199.25	-547.76	1,864,346.93	1,269,346.26	36.11726282	-107.50636992
5,112.00	73.09	315.69	4,881.38	228.57	-577.15	1,864,376.25	1,269,316.87	36.11734231	-107.50647068



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_v14

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,156.00	74.76	315.60	4,893.56	258.80	-606.71	1,864,406.48	1,269,287.32	36.11742428	-107.50657205
5,202.00	78.91	315.21	4,904.03	290.69	-638.15	1,864,438.37	1,269,255.87	36.11751075	-107.50667988
5,249.00	83.26	315.19	4,911.32	323.63	-670.86	1,864,471.31	1,269,223.16	36.11760005	-107.50679205
5,295.00	84.21	314.47	4,916.34	355.87	-703.29	1,864,503.54	1,269,190.74	36.11768744	-107.50690323
5,339.00	87.71	314.37	4,919.43	386.58	-734.63	1,864,534.26	1,269,159.39	36.11777068	-107.50701067
5,378.00	88.00	314.05	4,920.90	413.76	-762.56	1,864,561.43	1,269,131.46	36.11784432	-107.50710643
330 FSL 1797 FEL 5378 MD 4921 TVD									
5,385.00	88.05	313.99	4,921.14	418.62	-767.60	1,864,566.30	1,269,126.43	36.11785750	-107.50712367
5,478.00	88.22	313.44	4,924.16	482.85	-834.78	1,864,630.53	1,269,059.24	36.11803153	-107.50735391
5,570.00	87.55	312.42	4,927.56	545.47	-902.09	1,864,693.15	1,268,991.93	36.11820112	-107.50758451
5,662.00	87.68	312.39	4,931.39	607.46	-969.97	1,864,755.14	1,268,924.06	36.11836896	-107.50781699
5,754.00	87.58	315.71	4,935.19	671.36	-1,036.02	1,864,819.04	1,268,858.00	36.11854212	-107.50804340
5,845.00	89.43	316.35	4,937.57	736.83	-1,099.18	1,864,884.51	1,268,794.84	36.11871969	-107.50826005
5,937.00	89.60	316.23	4,938.35	803.33	-1,162.75	1,864,951.01	1,268,731.27	36.11890007	-107.50847816
6,028.00	90.00	316.50	4,938.66	869.19	-1,225.54	1,865,016.87	1,268,668.48	36.11907872	-107.50869362
6,120.00	89.33	314.73	4,939.20	934.93	-1,289.89	1,865,082.61	1,268,604.13	36.11925700	-107.50891433
6,211.00	90.00	314.40	4,939.73	998.79	-1,354.72	1,865,146.46	1,268,539.30	36.11943007	-107.50913659
6,301.00	89.70	313.04	4,939.97	1,060.99	-1,419.77	1,865,208.67	1,268,474.26	36.11959859	-107.50935951
6,391.00	90.37	312.88	4,939.91	1,122.32	-1,485.63	1,865,270.00	1,268,408.39	36.11976470	-107.50958516
6,482.00	89.36	316.00	4,940.13	1,186.03	-1,550.60	1,865,333.70	1,268,343.43	36.11993735	-107.50980786
6,574.00	90.34	316.46	4,940.37	1,252.46	-1,614.24	1,865,400.14	1,268,279.79	36.12011755	-107.51002622
6,666.00	88.99	315.45	4,940.91	1,318.59	-1,678.19	1,865,466.26	1,268,215.83	36.12029689	-107.51024563
6,758.00	90.60	315.13	4,941.24	1,383.97	-1,742.91	1,865,531.64	1,268,151.11	36.12047415	-107.51046759
6,850.00	89.63	314.17	4,941.05	1,448.62	-1,808.36	1,865,596.30	1,268,085.66	36.12064939	-107.51069198
6,943.00	90.84	313.64	4,940.67	1,513.11	-1,875.37	1,865,660.79	1,268,018.66	36.12082412	-107.51092164
7,035.00	89.63	316.09	4,940.29	1,578.00	-1,940.57	1,865,725.68	1,267,953.46	36.12100003	-107.51114520
7,125.00	90.27	316.68	4,940.37	1,643.16	-2,002.65	1,865,790.84	1,267,891.38	36.12117678	-107.51135823
7,217.00	88.18	317.15	4,941.62	1,710.34	-2,065.48	1,865,858.02	1,267,828.54	36.12135905	-107.51157389
7,310.00	87.61	316.43	4,945.03	1,778.08	-2,129.11	1,865,925.76	1,267,764.91	36.12154282	-107.51179227
7,402.00	87.98	315.48	4,948.57	1,844.16	-2,193.03	1,865,991.84	1,267,701.00	36.12172203	-107.51201153
7,492.00	87.45	315.08	4,952.16	1,908.06	-2,256.30	1,866,055.73	1,267,637.72	36.12189527	-107.51222855
7,584.00	87.95	314.76	4,955.85	1,972.97	-2,321.40	1,866,120.64	1,267,572.63	36.12207123	-107.51245176
7,675.00	88.22	314.76	4,958.89	2,037.01	-2,385.97	1,866,184.68	1,267,508.05	36.12224481	-107.51267320
7,767.00	91.58	314.72	4,959.05	2,101.76	-2,451.31	1,866,249.43	1,267,442.71	36.12242031	-107.51289723
7,859.00	91.61	314.31	4,956.49	2,166.23	-2,516.89	1,866,313.91	1,267,377.14	36.12259505	-107.51312206
7,951.00	91.82	314.35	4,953.74	2,230.49	-2,582.67	1,866,378.17	1,267,311.36	36.12276919	-107.51334758
8,042.00	89.66	313.16	4,952.56	2,293.42	-2,648.39	1,866,441.09	1,267,245.64	36.12293967	-107.51357283
8,134.00	88.86	311.51	4,953.75	2,355.37	-2,716.39	1,866,503.04	1,267,177.64	36.12310739	-107.51380575
8,224.00	90.57	313.57	4,954.20	2,416.21	-2,782.70	1,866,563.89	1,267,111.33	36.12327212	-107.51403290
8,316.00	91.21	313.04	4,952.77	2,479.30	-2,849.64	1,866,626.98	1,267,044.39	36.12344302	-107.51426229
8,408.00	89.16	311.94	4,952.47	2,541.44	-2,917.47	1,866,689.12	1,266,976.56	36.12361126	-107.51449467
8,500.00	90.00	311.07	4,953.15	2,602.41	-2,986.37	1,866,750.08	1,266,907.66	36.12377623	-107.51473059
8,591.00	90.00	310.99	4,953.15	2,662.14	-3,055.01	1,866,809.82	1,266,839.01	36.12393785	-107.51496562
8,681.00	89.39	313.09	4,953.63	2,722.41	-3,121.85	1,866,870.08	1,266,772.18	36.12410097	-107.51519454
8,773.00	90.00	312.66	4,954.12	2,785.00	-3,189.27	1,866,932.68	1,266,704.76	36.12427048	-107.51542554
8,864.00	90.44	315.00	4,953.77	2,848.02	-3,254.91	1,866,995.69	1,266,639.12	36.12444120	-107.51565054
8,956.00	90.81	315.14	4,952.76	2,913.15	-3,319.88	1,867,060.82	1,266,574.14	36.12461776	-107.51587335
9,047.00	90.34	314.63	4,951.85	2,977.36	-3,384.35	1,867,125.03	1,266,509.67	36.12479181	-107.51609445
9,139.00	89.29	314.35	4,952.15	3,041.83	-3,449.98	1,867,189.50	1,266,444.04	36.12496653	-107.51631947
9,230.00	90.97	316.37	4,951.94	3,106.57	-3,513.92	1,867,254.25	1,266,380.11	36.12514206	-107.51653877
9,320.00	91.31	316.25	4,950.15	3,171.64	-3,576.07	1,867,319.31	1,266,317.95	36.12531854	-107.51675207
9,412.00	91.85	316.53	4,947.61	3,238.23	-3,639.51	1,867,385.90	1,266,254.52	36.12549915	-107.51696975
9,503.00	92.02	316.28	4,944.54	3,304.09	-3,702.22	1,867,451.77	1,266,191.81	36.12567781	-107.51718497
9,593.00	92.39	316.17	4,941.08	3,369.03	-3,764.44	1,867,516.70	1,266,129.59	36.12585393	-107.51739847
9,686.00	91.98	316.34	4,937.53	3,436.17	-3,828.70	1,867,583.84	1,266,065.33	36.12603602	-107.51761897



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_v14

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,778.00	90.13	317.17	4,935.84	3,503.17	-3,891.71	1,867,650.84	1,266,002.31	36.12621778	-107.51783527
9,870.00	88.05	316.53	4,937.30	3,570.28	-3,954.62	1,867,717.95	1,265,939.41	36.12639984	-107.51805121
9,962.00	88.62	316.32	4,939.97	3,636.90	-4,018.01	1,867,784.57	1,265,876.02	36.12658054	-107.51826875
10,055.00	88.76	315.63	4,942.10	3,703.75	-4,082.63	1,867,851.42	1,265,811.40	36.12676184	-107.51849046
10,147.00	89.06	315.12	4,943.85	3,769.22	-4,147.24	1,867,916.89	1,265,746.79	36.12693932	-107.51871210
10,239.00	89.60	315.46	4,944.93	3,834.60	-4,211.96	1,867,982.27	1,265,682.07	36.12711656	-107.51893409
10,330.00	90.27	314.71	4,945.03	3,899.04	-4,276.21	1,868,046.71	1,265,617.82	36.12729124	-107.51915446
10,422.00	88.15	314.58	4,946.30	3,963.68	-4,341.66	1,868,111.35	1,265,552.37	36.12746643	-107.51937888
10,515.00	88.12	314.51	4,949.32	4,028.88	-4,407.90	1,868,176.55	1,265,486.13	36.12764313	-107.51960604
10,607.00	88.72	314.45	4,951.86	4,093.31	-4,473.52	1,868,240.99	1,265,420.51	36.12781775	-107.51983104
10,700.00	89.90	314.83	4,952.98	4,158.66	-4,539.68	1,868,306.33	1,265,354.35	36.12799483	-107.52005794
10,792.00	89.46	313.98	4,953.49	4,223.03	-4,605.41	1,868,370.70	1,265,288.62	36.12816927	-107.52028329
10,884.00	89.53	312.81	4,954.30	4,286.23	-4,672.26	1,868,433.90	1,265,221.78	36.12834046	-107.52051240
10,974.00	89.97	315.02	4,954.70	4,348.65	-4,737.08	1,868,496.32	1,265,156.95	36.12850956	-107.52073464
11,066.00	91.41	315.28	4,953.59	4,413.87	-4,801.96	1,868,561.54	1,265,092.07	36.12868635	-107.52095717
11,158.00	88.96	315.76	4,953.29	4,479.50	-4,866.42	1,868,627.17	1,265,027.61	36.12886430	-107.52117830
11,250.00	89.06	315.36	4,954.88	4,545.18	-4,930.82	1,868,692.85	1,264,963.21	36.12904237	-107.52139925
11,342.00	89.50	315.18	4,956.04	4,610.53	-4,995.56	1,868,758.20	1,264,898.47	36.12921954	-107.52162133
11,435.00	90.03	314.73	4,956.42	4,676.24	-5,061.37	1,868,823.91	1,264,832.66	36.12939764	-107.52184705
11,527.00	90.50	314.95	4,955.99	4,741.11	-5,126.61	1,868,888.78	1,264,767.42	36.12957346	-107.52207078
11,616.00	91.11	314.64	4,954.74	4,803.81	-5,189.76	1,868,951.48	1,264,704.27	36.12974340	-107.52228736
11,708.00	91.21	314.70	4,952.88	4,868.48	-5,255.17	1,869,016.15	1,264,638.86	36.12991865	-107.52251170
11,797.00	91.98	314.33	4,950.40	4,930.85	-5,318.61	1,869,078.52	1,264,575.42	36.13008767	-107.52272923
11,889.00	89.29	314.91	4,949.38	4,995.46	-5,384.08	1,869,143.13	1,264,509.95	36.13026277	-107.52295377
11,982.00	90.17	314.86	4,949.82	5,061.09	-5,449.98	1,869,208.76	1,264,444.06	36.13044064	-107.52317976
12,072.00	88.29	315.22	4,951.03	5,124.76	-5,513.56	1,869,272.43	1,264,380.47	36.13061324	-107.52339786
12,164.00	88.92	314.95	4,953.27	5,189.90	-5,578.50	1,869,337.56	1,264,315.53	36.13078978	-107.52362061
12,257.00	89.16	315.26	4,954.83	5,255.77	-5,644.13	1,869,403.44	1,264,249.90	36.13096833	-107.52384573
12,349.00	89.39	314.33	4,955.99	5,320.58	-5,709.41	1,869,468.25	1,264,184.62	36.13114400	-107.52406963
12,441.00	89.60	315.28	4,956.81	5,385.41	-5,774.68	1,869,533.08	1,264,119.35	36.13131970	-107.52429349
12,533.00	88.59	316.62	4,958.26	5,451.52	-5,838.64	1,869,599.19	1,264,055.39	36.13149897	-107.52451296
12,626.00	88.22	315.62	4,960.85	5,518.53	-5,903.08	1,869,666.20	1,263,990.96	36.13168068	-107.52473410
12,718.00	88.99	315.57	4,963.09	5,584.24	-5,967.43	1,869,731.90	1,263,926.60	36.13185882	-107.52495490
12,810.00	90.50	315.19	4,963.50	5,649.72	-6,032.05	1,869,797.39	1,263,861.98	36.13203634	-107.52517659
12,903.00	88.42	314.58	4,964.37	5,715.34	-6,097.93	1,869,863.01	1,263,796.10	36.13221419	-107.52540257
12,995.00	88.79	314.01	4,966.61	5,779.57	-6,163.76	1,869,927.24	1,263,730.27	36.13238822	-107.52562830
13,087.00	88.86	313.13	4,968.50	5,842.96	-6,230.41	1,869,990.63	1,263,663.63	36.13255994	-107.52585675
13,180.00	89.87	313.15	4,969.53	5,906.55	-6,298.26	1,870,054.22	1,263,595.77	36.13273213	-107.52608932
13,198.40	89.88	313.00	4,969.57	5,919.12	-6,311.70	1,870,066.79	1,263,582.33	36.13276616	-107.52613538
Top Sleeve depth @ 13198.4 MD 4969.6 TVD									
13,220.00	89.90	312.83	4,969.61	5,933.83	-6,327.52	1,870,081.49	1,263,566.51	36.13280599	-107.52618959
330 FWL 350 FSL @ 13220 MD 4970 TVD									
13,272.00	89.93	312.42	4,969.69	5,969.04	-6,365.78	1,870,116.71	1,263,528.25	36.13290133	-107.52632070
Survey @ 13272.00 MD 4969.69 TVD									
13,340.00	89.93	312.42	4,969.77	6,014.91	-6,415.98	1,870,162.58	1,263,478.05	36.13302550	-107.52649270
Survey Projected to 13340.00 MD 4969.77 TVD									



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 359 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Site:	S Escavada Unit	MD Reference:	RKB=6906+28 @ 6934.00ft (Ensign 773)
Well:	S Escavada Unit 359 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Aug1919_v14

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
311.00	311.00	-0.68	-1.17	MWD surveys
5,378.00	4,920.90	413.76	-762.56	330 FSL 1797 FEL 5378 MD 4921 TVD
13,198.40	4,969.57	5,919.12	-6,311.70	Top Sleeve depth @ 13198.4 MD 4969.6 TVD
13,220.00	4,969.61	5,933.83	-6,327.52	330 FWL 350 FSL @ 13220 MD 4970 TVD
13,272.00	4,969.69	5,969.04	-6,365.78	Survey @ 13272.00 MD 4969.69 TVD
13,340.00	4,969.77	6,014.91	-6,415.98	Survey Projected to 13340.00 MD 4969.77 TVD

API	Unit	#	Fm Top Depth Type	Ojo Alamo	Kirtland	Fruitland	Pictured Cliffs	Cliff House	Menefee	Point Lookout	Mancos	Gallup
30043213290000	S ESCAVADA UNIT	359H	Measured Depth	773	903	1082	1367	2458	2898	3789	3913	4239
			TVD	773	903	1082	1366	2456	2890	3771	3895	4221

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 21644

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
ENDURING RESOURCES, LLC 1050 17TH STREET, SUITE 2500 DENVER, CO80265			372286	21644	C-104C
Created By	Comment	Comment Date			
ahvermersch	Admin review completed; Needs Geo review	04/07/2021			
kpickford	KP GEO Review 4/7/2021	04/07/2021			

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CONDITIONS

Action 21644

CONDITIONS OF APPROVAL

Operator:	ENDURING RESOURCES, LLC	1050 17TH STREET, SUITE 2500	DENVER, CO80265	OGRID:	372286	Action Number:	21644	Action Type:	C-104C
OCD Reviewer	Condition								
ahvermersch	None								