

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 NW	
⁴ API Number 30-043-21318	⁵ Pool Name Rusty Gallup		⁶ Pool Code 52860
⁷ Property Code 322151	⁸ Property Name S ESCAVADA UNIT		⁹ Well Number #350H

II. ¹⁰ Surface Location

UL or lot no. I	Section 27	Township 22N	Range 7W	Lot Idn	Feet from the 2091'	North/South Line South	Feet from the 436'	East/West line East	County Sandoval
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¹¹ Bottom Hole Location

UL or lot no. K	Section 28	Township 22N	Range 7W	Lot Idn	Feet from the 1850'	North/South line South	Feet from the 2622'	East/West line West	County Sandoval
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 3/20/2022		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 11/14/2021	²² Ready Date 3/20/2022	²³ TD 12972' MD 4533' TVD	²⁴ PBDT 12862' MD 4536' TVD	²⁵ Perforations ~ 5230'-12862' MD ~ 4611'-4530' 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		360' MD		350 sx - surface
12-1/4"		9-5/8",36#, J-55		2736' MD		670 sx- surface
8-1/2"		5-1/2",17#, P-110		12972' MD		1949 sx- surface
8-1/2"		2-7/8",6.5#, L-80		4919' MD		NA

V. Well Test Data

³¹ Date New Oil 3/26/2022	³² Gas Delivery Date 3/25/2022	³³ Test Date 3/26/2022	³⁴ Test Length 24 hour	³⁵ Tbg. Pressure 310	³⁶ Csg. Pressure 1120
³⁷ Choke Size 64/64"	³⁸ Oil 210	³⁹ Water 1203	⁴⁰ Gas 880		⁴¹ Test Method F

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: Kayla White	Approved by: PATRICIA MARTINEZ				
Title: Associate Consultant, Environmental Engineer	Title: PETROLEUM SPECIALIST				
E-mail Address: Kayla.N.White@wsp.com	Approval Date: 3/21/2024				
Date: 4/25/2022	Phone: 720-384-6452				



ENDURING RESOURCES IV LLC

April 26, 2022

Re: S ESCAVADA UNIT 350H-30-043-21318

Pursuant to NMOCD rule 19.15.7.16(C) request is herein made to keep all data and accompanying attachments contained in form C-105 confidential.

Sincerely,

A handwritten signature in blue ink, appearing to read "Heather Huntington".

Heather Huntington
Permitting Technician
Enduring Resources, LLC.
hhuntington@enduringresources.com

1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District 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 DepartmentForm **Page 3 of 27**
Revised August 1, 2011Submit 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 30-043-21318	² Pool Code 52860	³ Pool Name RUSTY GALLUP OIL POOL
⁴ Property Code 322151	⁵ Property Name S ESCAVADA UNIT	⁶ Well Number 350H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6749'

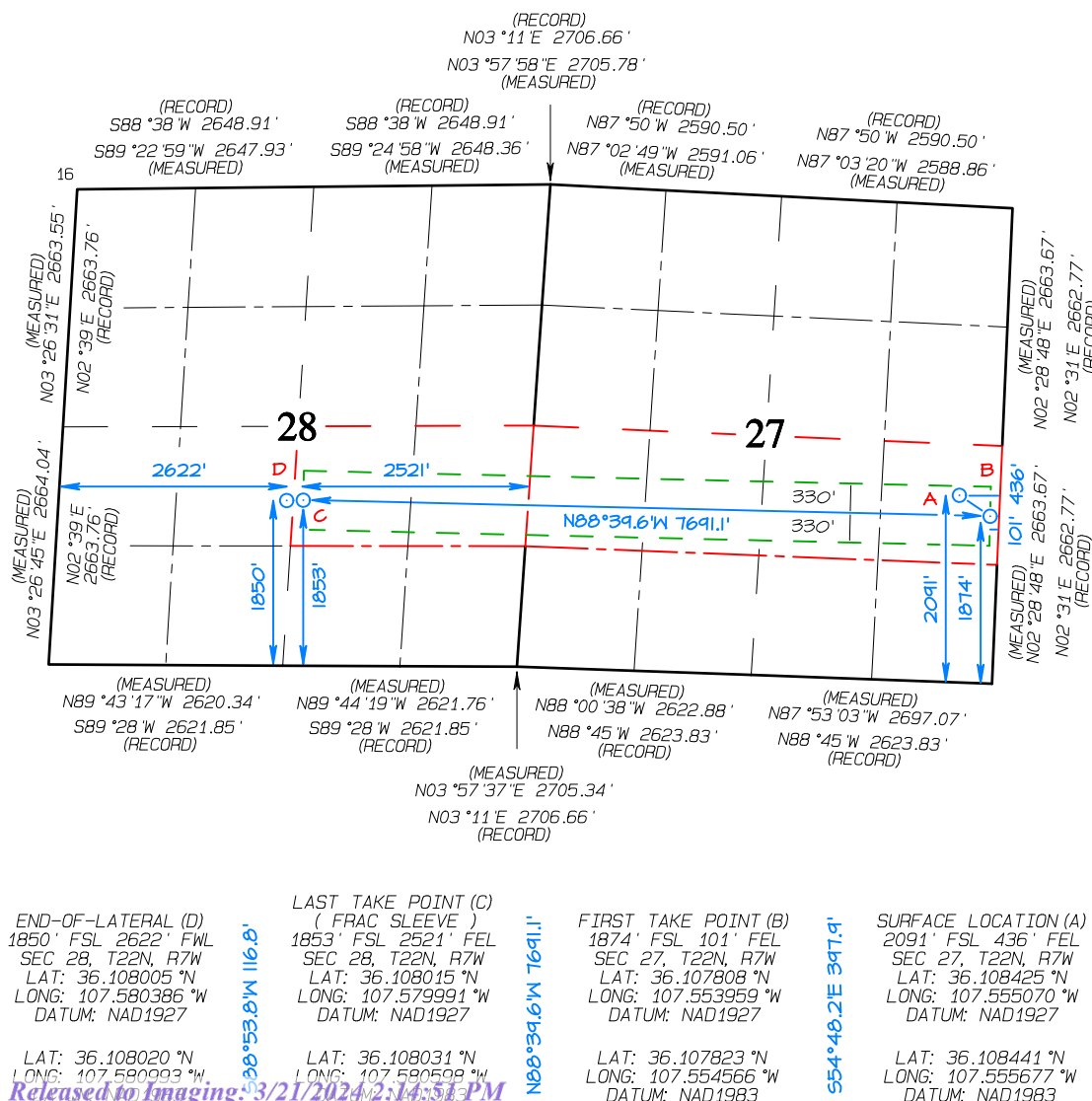
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	27	22N	7W		2091	SOUTH	436	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
K	28	22N	7W		1850	SOUTH	2622	WEST	SANDOVAL

¹² Dedicated Acres 240.00	N/2 SE/4 - Section 28 N/2 S/2 - Section 27	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 DIVISION¹⁷ 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 **6/13/22**
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: JUNE 9, 2022
Date of Survey: MAY 1, 2017

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

1625 N. French Drive, Hobbs, NM 88240
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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 DepartmentForm **Page 4 of 27**
Revised August 1, 2011Submit 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 30-043-21318	² Pool Code 52860	³ Pool Name RUSTY GALLUP OIL POOL
⁴ Property Code 322151	⁵ Property Name S ESCAVADA UNIT	⁶ Well Number 350H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6749'

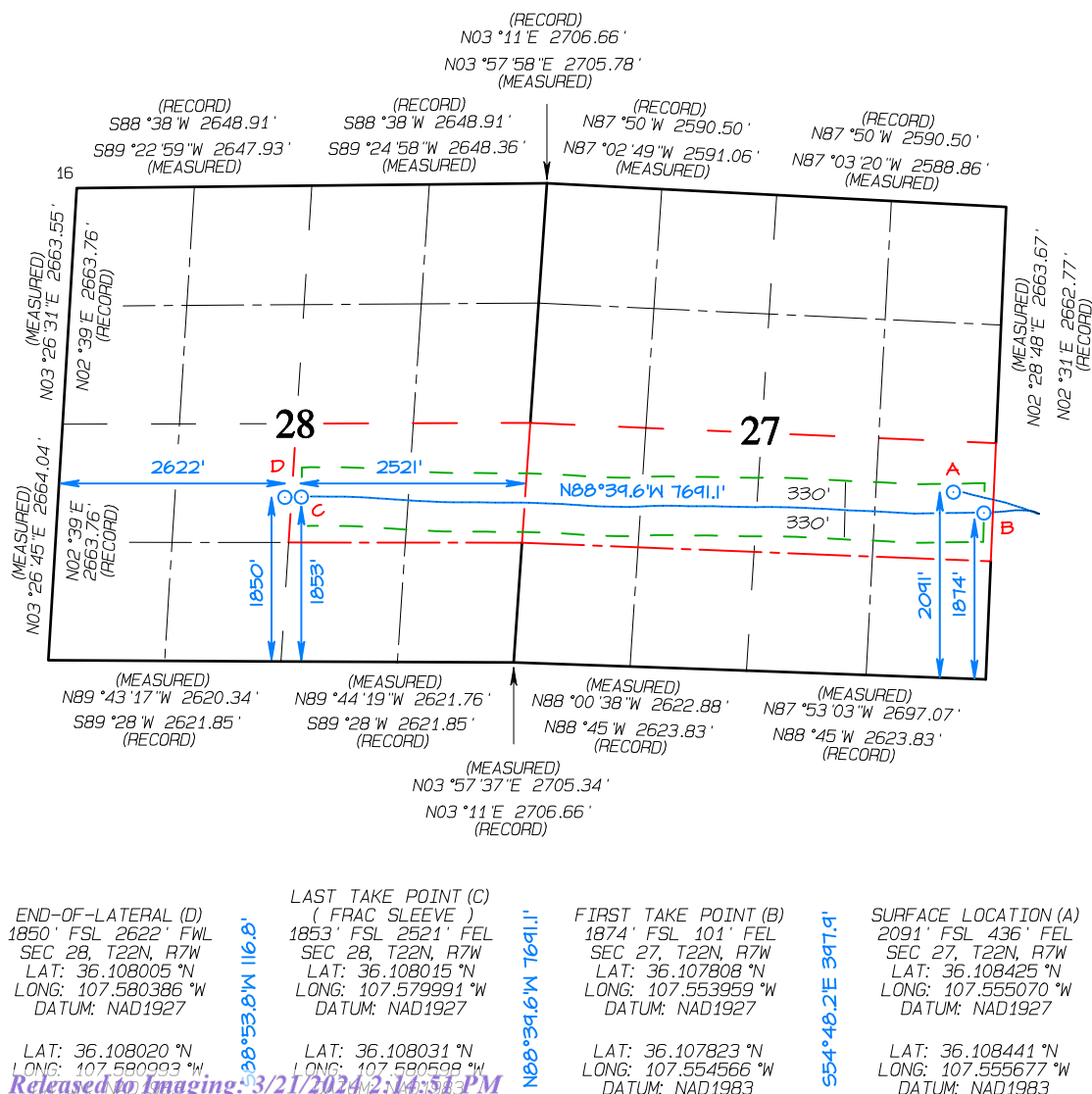
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Heather Huntington 6/13/22
Signature Date
Printed Name
hhuntington@enduringresources.com
E-mail Address

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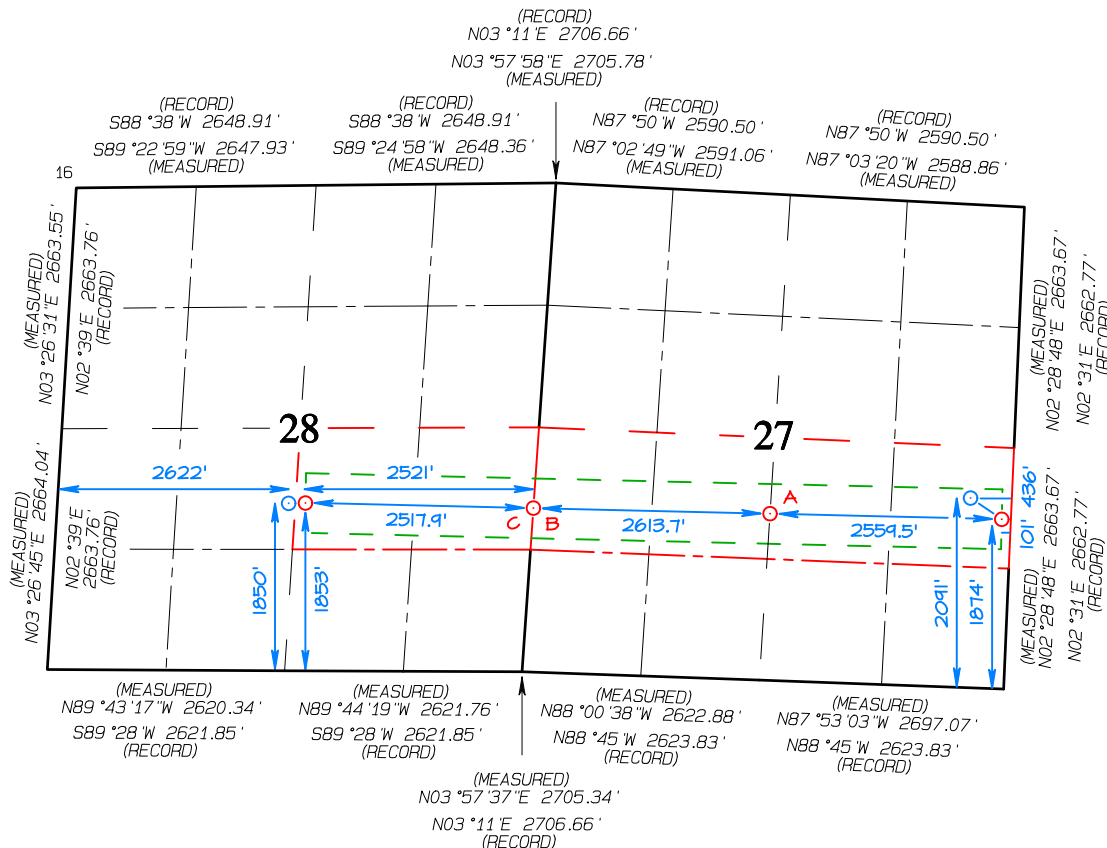
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Heath H. 6/13/22

Signature	Date
-----------	------

Heather Huntington

Printed Name

hhuntington@enduringresources.com

E-mail Address

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Date Revised: JUNE 9, 2022

Date of Survey: MAY 1, 2017

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number	15269
--------------------	-------

(C) 1809' FSL 0' FEL
SEC 28, T22N, R7W
LAT: 36.107948 °N
LONG: 107.571469 °W
DATUM: NAD1927

(B) 1809' FSL 0' FW
SEC 27, T22N, R7W
LAT: 36.107948 °N
LONG: 107.571469 °W
DATUM: NAD1927

(A) 1839' FSL 2611' FWL
SEC 27, T22N, R7W
LAT: 36.107877°N
LONG: 107.562622°W
DATUM: NAD1927

LAT: 36.107963 °N
LONG: 107.572076 °W
DATUM: NAD1983

LAT: 36.107963 °N
LONG: 107.572076 °W
DATUM: NAD1983

LAT: 36.107893 °N
LONG: 107.563229 °W
DATUM: NAD1983



Well: S Escavada Unit 350 H
Site: S Escavada Unit
Project: Sandoval County, New Mexico NAD83 NM C
Design: rev2
Rig:

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6749+28 @ 6777.00ft
Surface location:

Northing: 1861327.420 Easting: 1254739.451 Latitude: 36.108441000 Longitude: -107.555677000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 9.428°

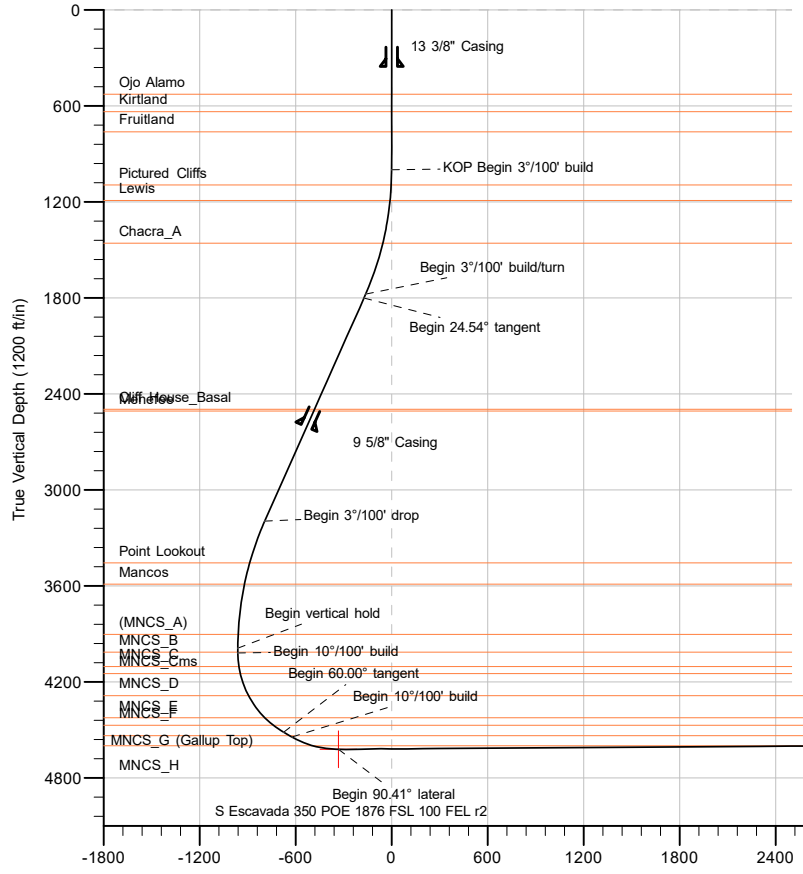
G T M
Azimuths to Grid North
True North: 0.77°
Magnetic North: 9.43°

Magnetic Field
Strength: 49215.3nT
Dip Angle: 62.68°
Date: 12/9/2021
Model: IGRF2020



CASING DETAILS

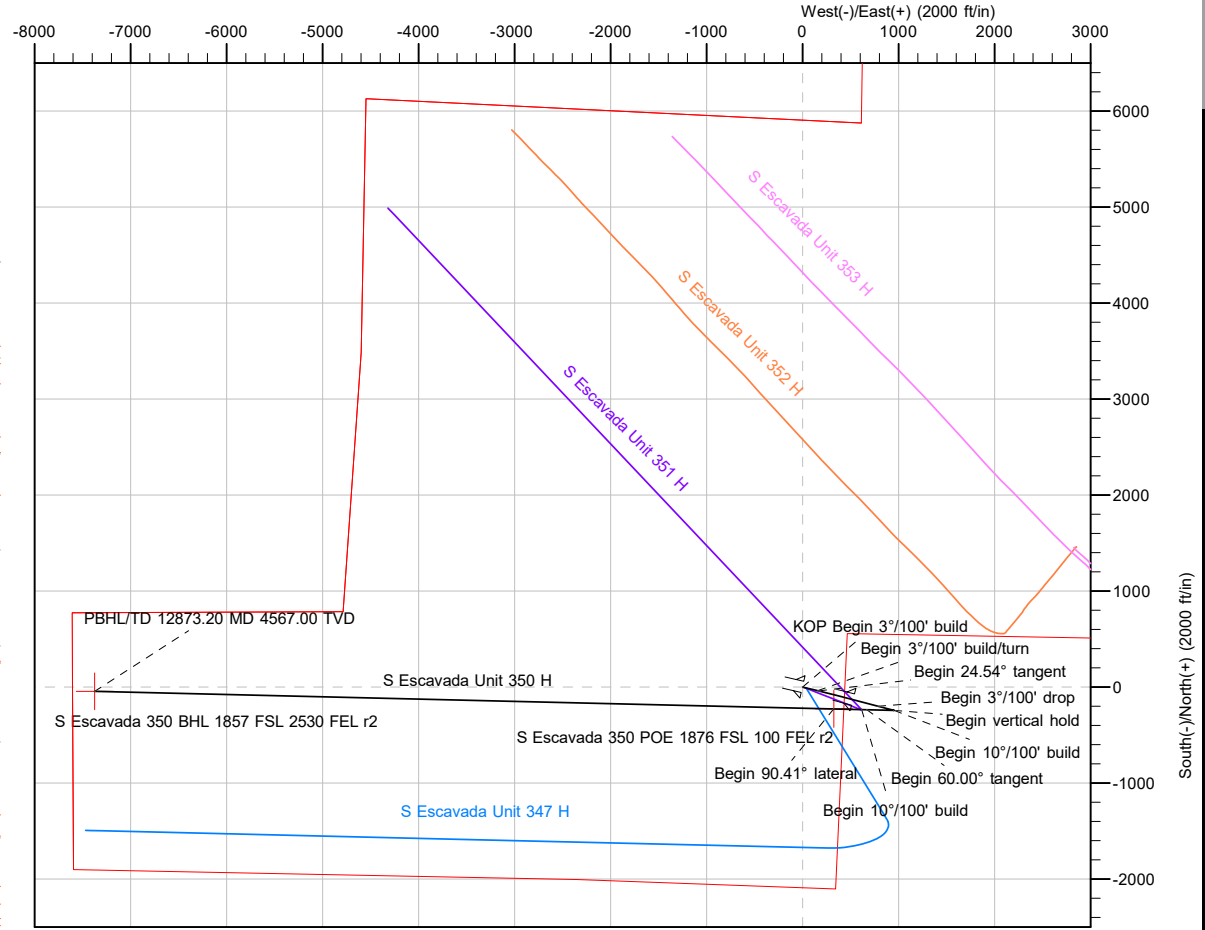
TVD	MD	Name
353.00	353.00	13 3/8" Casing
2607.00	2712.54	9 5/8" Casing



Vertical Section at 271.35° (1200 ft/in)

Section Details										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 3"/100' build
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.000	0.00	Begin 3"/100' build/turn
3	1800.00	24.00	103.00	1776.81	-37.14	160.88	3.00	103.000	-161.71	Begin 24.54° tangent
4	1827.28	24.54	104.50	1801.68	-39.81	171.77	3.00	49.732	-172.66	Begin 3"/100' drop
5	3359.89	24.54	104.50	3195.89	-199.21	787.94	0.00	0.000	-792.41	Begin vertical hold
6	4177.77	0.00	0.00	3989.00	-242.40	954.91	3.00	180.000	-960.36	Begin 10"/100' build
7	4207.83	0.00	0.00	4019.06	-242.40	954.91	0.00	0.000	-960.36	Begin 60.00° tangent
8	4807.83	60.00	271.35	4515.26	-235.65	668.51	10.00	271.350	-673.88	Begin 10"/100' build
9	4867.83	60.00	271.35	4545.26	-234.43	616.56	0.00	0.000	-621.92	Begin 90.41° lateral
10	5171.92	90.41	271.35	4622.00	-227.57	326.07	10.00	0.007	-331.34	PBHL/TD 12873.20 MD 4567.00 TVD
11	12873.20	90.41	271.35	4567.00	-45.66	-7372.86	0.00	0.000	7369.73	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
S Escavada 350 BHL 1857 FSL 2530 FEL r2	4567.00	-45.66	-7372.86	1861281.755	1247366.610	36.108041000	-107.580629000
S Escavada 350 POE 1876 FSL 100 FEL r2	4622.00	-227.57	326.08	1861099.847	1255065.532	36.107828000	-107.554563000



PBHL/TD 12873.20 MD 4567.00 TVD
S Escavada 350 BHL 1857 FSL 2530 FEL r2



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

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:	1,862,785.000 usft	Latitude:	36.112549000
From:	Lat/Long	Easting:	1,257,590.214 usft	Longitude:	-107.546094000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	S Escavada Unit 350 H, Surf loc: 2091 FSL 436 FEL Section 27-T22N-R07W					
Well Position	+N/-S	0.00 ft	Northing:	1,861,327.420 usft	Latitude:	36.108441000
	+E/-W	0.00 ft	Easting:	1,254,739.451 usft	Longitude:	-107.555677000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,749.00 ft
Grid Convergence:		-0.770 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/9/2021	8.659	62.677	49,215.25982076

Design	rev2				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	271.35	

Plan Survey Tool Program	Date	12/9/2021			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	12,873.12 rev2 (Original Hole)	MWD		
			OWSG MWD - Standard		



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,800.00	24.00	103.00	1,776.81	-37.14	160.88	3.00	3.00	0.00	103.000	
1,827.28	24.54	104.50	1,801.68	-39.81	171.77	3.00	1.97	5.51	49.732	
3,359.89	24.54	104.50	3,195.89	-199.21	787.94	0.00	0.00	0.00	0.000	
4,177.77	0.00	0.00	3,989.00	-242.40	954.91	3.00	-3.00	0.00	180.000	
4,207.83	0.00	0.00	4,019.06	-242.40	954.91	0.00	0.00	0.00	0.000	
4,807.83	60.00	271.35	4,515.26	-235.65	668.51	10.00	10.00	0.00	271.350	
4,867.83	60.00	271.35	4,545.26	-234.43	616.56	0.00	0.00	0.00	0.000	
5,171.92	90.41	271.35	4,622.00	-227.57	326.07	10.00	10.00	0.00	0.007	
12,873.20	90.41	271.35	4,567.00	-45.66	-7,372.86	0.00	0.00	0.00	0.000	S Escavada 350 BHL



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned 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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
527.00	0.00	0.00	527.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
637.00	0.00	0.00	637.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
762.00	0.00	0.00	762.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,095.04	2.85	103.00	1,095.00	-0.53	2.30	-2.32	3.00	3.00	0.00
Pictured Cliffs									
1,100.00	3.00	103.00	1,099.95	-0.59	2.55	-2.56	3.00	3.00	0.00
1,192.32	5.77	103.00	1,192.00	-2.18	9.43	-9.48	3.00	3.00	0.00
Lewis									
1,200.00	6.00	103.00	1,199.63	-2.35	10.19	-10.25	3.00	3.00	0.00
1,300.00	9.00	103.00	1,298.77	-5.29	22.91	-23.03	3.00	3.00	0.00
1,400.00	12.00	103.00	1,397.08	-9.39	40.67	-40.88	3.00	3.00	0.00
1,463.54	13.91	103.00	1,459.00	-12.59	54.54	-54.82	3.00	3.00	0.00
Chacra_A									
1,500.00	15.00	103.00	1,494.31	-14.64	63.41	-63.74	3.00	3.00	0.00
1,600.00	18.00	103.00	1,590.18	-21.03	91.08	-91.55	3.00	3.00	0.00
1,700.00	21.00	103.00	1,684.43	-28.54	123.60	-124.24	3.00	3.00	0.00
1,800.00	24.00	103.00	1,776.81	-37.14	160.88	-161.71	3.00	3.00	0.00
Begin 3°/100' build/turn									
1,827.28	24.54	104.50	1,801.68	-39.81	171.77	-172.66	3.00	1.97	5.51
Begin 24.54° tangent									
1,900.00	24.54	104.50	1,867.83	-47.37	201.01	-202.07	0.00	0.00	0.00
2,000.00	24.54	104.50	1,958.80	-57.77	241.21	-242.51	0.00	0.00	0.00
2,100.00	24.54	104.50	2,049.77	-68.17	281.42	-282.95	0.00	0.00	0.00
2,200.00	24.54	104.50	2,140.74	-78.57	321.62	-323.38	0.00	0.00	0.00
2,300.00	24.54	104.50	2,231.71	-88.97	361.83	-363.82	0.00	0.00	0.00
2,400.00	24.54	104.50	2,322.68	-99.37	402.03	-404.26	0.00	0.00	0.00
2,500.00	24.54	104.50	2,413.65	-109.78	442.23	-444.70	0.00	0.00	0.00
2,591.62	24.54	104.50	2,497.00	-119.30	479.07	-481.75	0.00	0.00	0.00
Cliff House_Basal									
2,600.00	24.54	104.50	2,504.62	-120.18	482.44	-485.13	0.00	0.00	0.00
2,602.62	24.54	104.50	2,507.00	-120.45	483.49	-486.19	0.00	0.00	0.00
Menefee									
2,700.00	24.54	104.50	2,595.59	-130.58	522.64	-525.57	0.00	0.00	0.00
2,800.00	24.54	104.50	2,686.56	-140.98	562.84	-566.01	0.00	0.00	0.00
2,900.00	24.54	104.50	2,777.53	-151.38	603.05	-606.45	0.00	0.00	0.00
3,000.00	24.54	104.50	2,868.50	-161.78	643.25	-646.88	0.00	0.00	0.00
3,100.00	24.54	104.50	2,959.47	-172.18	683.46	-687.32	0.00	0.00	0.00
3,200.00	24.54	104.50	3,050.44	-182.58	723.66	-727.76	0.00	0.00	0.00



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned 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)	
3,300.00	24.54	104.50	3,141.41	-192.98	763.86	-768.20	0.00	0.00	0.00	
3,359.89	24.54	104.50	3,195.89	-199.21	787.94	-792.41	0.00	0.00	0.00	
Begin 3°/100' drop										
3,400.00	23.33	104.50	3,232.55	-203.28	803.69	-808.26	3.00	-3.00	0.00	
3,500.00	20.33	104.50	3,325.37	-212.60	839.70	-844.47	3.00	-3.00	0.00	
3,600.00	17.33	104.50	3,420.00	-220.68	870.94	-875.90	3.00	-3.00	0.00	
3,638.64	16.17	104.50	3,457.00	-223.47	881.73	-886.75	3.00	-3.00	0.00	
Point Lookout										
3,700.00	14.33	104.50	3,516.20	-227.51	897.36	-902.47	3.00	-3.00	0.00	
3,775.81	12.06	104.50	3,590.00	-231.85	914.11	-919.32	3.00	-3.00	0.00	
Mancos										
3,800.00	11.33	104.50	3,613.69	-233.07	918.86	-924.09	3.00	-3.00	0.00	
3,900.00	8.33	104.50	3,712.21	-237.35	935.39	-940.72	3.00	-3.00	0.00	
4,000.00	5.33	104.50	3,811.49	-240.33	946.91	-952.31	3.00	-3.00	0.00	
4,092.74	2.55	104.50	3,904.00	-241.93	953.08	-958.51	3.00	-3.00	0.00	
(MNCS_A)										
4,100.00	2.33	104.50	3,911.25	-242.00	953.38	-958.81	3.00	-3.00	0.00	
4,177.77	0.00	0.00	3,989.00	-242.40	954.91	-960.36	3.00	-3.00	0.00	
Begin vertical hold										
4,203.77	0.00	0.00	4,015.00	-242.40	954.91	-960.36	0.00	0.00	0.00	
MNCS_B										
4,207.83	0.00	0.00	4,019.06	-242.40	954.91	-960.36	0.00	0.00	0.00	
Begin 10°/100' build										
4,250.00	4.22	271.35	4,061.19	-242.36	953.36	-958.80	10.00	10.00	0.00	
4,294.10	8.63	271.35	4,105.00	-242.25	948.43	-953.87	10.00	10.00	0.00	
MNCS_C										
4,300.00	9.22	271.35	4,110.83	-242.23	947.51	-952.96	10.00	10.00	0.00	
4,338.91	13.11	271.35	4,149.00	-242.05	939.99	-945.43	10.00	10.00	0.00	
MNCS_Cms										
4,350.00	14.22	271.35	4,159.78	-241.99	937.37	-942.81	10.00	10.00	0.00	
4,400.00	19.22	271.35	4,207.65	-241.65	922.99	-928.43	10.00	10.00	0.00	
4,450.00	24.22	271.35	4,254.08	-241.21	904.50	-909.93	10.00	10.00	0.00	
4,486.65	27.88	271.35	4,287.00	-240.83	888.42	-893.85	10.00	10.00	0.00	
MNCS_D										
4,500.00	29.22	271.35	4,298.73	-240.68	882.04	-887.46	10.00	10.00	0.00	
4,550.00	34.22	271.35	4,341.25	-240.06	855.77	-861.19	10.00	10.00	0.00	
4,600.00	39.22	271.35	4,381.32	-239.36	825.89	-831.30	10.00	10.00	0.00	
4,650.00	44.22	271.35	4,418.63	-238.58	792.64	-798.04	10.00	10.00	0.00	
4,658.96	45.11	271.35	4,425.00	-238.43	786.34	-791.74	10.00	10.00	0.00	
MNCS_E										
4,700.00	49.22	271.35	4,452.90	-237.72	756.26	-761.65	10.00	10.00	0.00	
4,730.18	52.24	271.35	4,472.00	-237.17	732.91	-738.29	10.00	10.00	0.00	
MNCS_F										
4,750.00	54.22	271.35	4,483.86	-236.79	717.04	-722.42	10.00	10.00	0.00	
4,800.00	59.22	271.35	4,511.29	-235.81	675.26	-680.63	10.00	10.00	0.00	
4,807.83	60.00	271.35	4,515.26	-235.65	668.51	-673.88	10.00	10.00	0.00	
Begin 60.00° tangent										
4,851.32	60.00	271.35	4,537.00	-234.76	630.86	-636.22	0.00	0.00	0.00	
MNCS_G (Gallup Top)										
4,867.83	60.00	271.35	4,545.26	-234.43	616.56	-621.92	0.00	0.00	0.00	
Begin 10°/100' build										
4,900.00	63.22	271.35	4,560.55	-233.76	588.28	-593.62	10.00	10.00	0.00	



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned 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)
4,950.00	68.22	271.35	4,581.11	-232.69	542.73	-548.06	10.00	10.00	0.00
5,000.00	73.22	271.35	4,597.61	-231.57	495.56	-500.88	10.00	10.00	0.00
5,008.48	74.06	271.35	4,600.00	-231.38	487.43	-492.74	10.00	10.00	0.00
MNCS_H									
5,050.00	78.22	271.35	4,609.94	-230.43	447.13	-452.44	10.00	10.00	0.00
5,100.00	83.22	271.35	4,618.01	-229.27	397.82	-403.11	10.00	10.00	0.00
5,150.00	88.22	271.35	4,621.74	-228.09	347.99	-353.26	10.00	10.00	0.00
5,171.92	90.41	271.35	4,622.00	-227.57	326.07	-331.34	10.00	10.00	0.00
Begin 90.41° lateral									
5,200.00	90.41	271.35	4,621.80	-226.91	298.00	-303.27	0.00	0.00	0.00
5,300.00	90.41	271.35	4,621.09	-224.55	198.04	-203.27	0.00	0.00	0.00
5,400.00	90.41	271.35	4,620.37	-222.18	98.07	-103.27	0.00	0.00	0.00
5,500.00	90.41	271.35	4,619.66	-219.82	-1.90	-3.28	0.00	0.00	0.00
5,600.00	90.41	271.35	4,618.95	-217.46	-101.87	96.72	0.00	0.00	0.00
5,700.00	90.41	271.35	4,618.23	-215.10	-201.84	196.72	0.00	0.00	0.00
5,800.00	90.41	271.35	4,617.52	-212.74	-301.81	296.72	0.00	0.00	0.00
5,900.00	90.41	271.35	4,616.80	-210.37	-401.78	396.71	0.00	0.00	0.00
6,000.00	90.41	271.35	4,616.09	-208.01	-501.75	496.71	0.00	0.00	0.00
6,100.00	90.41	271.35	4,615.37	-205.65	-601.72	596.71	0.00	0.00	0.00
6,200.00	90.41	271.35	4,614.66	-203.29	-701.69	696.71	0.00	0.00	0.00
6,300.00	90.41	271.35	4,613.95	-200.93	-801.66	796.70	0.00	0.00	0.00
6,400.00	90.41	271.35	4,613.23	-198.56	-901.63	896.70	0.00	0.00	0.00
6,500.00	90.41	271.35	4,612.52	-196.20	-1,001.60	996.70	0.00	0.00	0.00
6,600.00	90.41	271.35	4,611.80	-193.84	-1,101.57	1,096.70	0.00	0.00	0.00
6,700.00	90.41	271.35	4,611.09	-191.48	-1,201.54	1,196.69	0.00	0.00	0.00
6,800.00	90.41	271.35	4,610.38	-189.12	-1,301.51	1,296.69	0.00	0.00	0.00
6,900.00	90.41	271.35	4,609.66	-186.75	-1,401.48	1,396.69	0.00	0.00	0.00
7,000.00	90.41	271.35	4,608.95	-184.39	-1,501.45	1,496.69	0.00	0.00	0.00
7,100.00	90.41	271.35	4,608.23	-182.03	-1,601.42	1,596.68	0.00	0.00	0.00
7,200.00	90.41	271.35	4,607.52	-179.67	-1,701.39	1,696.68	0.00	0.00	0.00
7,300.00	90.41	271.35	4,606.80	-177.31	-1,801.36	1,796.68	0.00	0.00	0.00
7,400.00	90.41	271.35	4,606.09	-174.94	-1,901.33	1,896.68	0.00	0.00	0.00
7,500.00	90.41	271.35	4,605.38	-172.58	-2,001.30	1,996.67	0.00	0.00	0.00
7,600.00	90.41	271.35	4,604.66	-170.22	-2,101.26	2,096.67	0.00	0.00	0.00
7,700.00	90.41	271.35	4,603.95	-167.86	-2,201.23	2,196.67	0.00	0.00	0.00
7,800.00	90.41	271.35	4,603.23	-165.50	-2,301.20	2,296.67	0.00	0.00	0.00
7,900.00	90.41	271.35	4,602.52	-163.13	-2,401.17	2,396.66	0.00	0.00	0.00
8,000.00	90.41	271.35	4,601.80	-160.77	-2,501.14	2,496.66	0.00	0.00	0.00
8,100.00	90.41	271.35	4,601.09	-158.41	-2,601.11	2,596.66	0.00	0.00	0.00
8,200.00	90.41	271.35	4,600.38	-156.05	-2,701.08	2,696.66	0.00	0.00	0.00
8,300.00	90.41	271.35	4,599.66	-153.69	-2,801.05	2,796.65	0.00	0.00	0.00
8,400.00	90.41	271.35	4,598.95	-151.32	-2,901.02	2,896.65	0.00	0.00	0.00
8,500.00	90.41	271.35	4,598.23	-148.96	-3,000.99	2,996.65	0.00	0.00	0.00
8,600.00	90.41	271.35	4,597.52	-146.60	-3,100.96	3,096.65	0.00	0.00	0.00
8,700.00	90.41	271.35	4,596.81	-144.24	-3,200.93	3,196.64	0.00	0.00	0.00
8,800.00	90.41	271.35	4,596.09	-141.87	-3,300.90	3,296.64	0.00	0.00	0.00
8,900.00	90.41	271.35	4,595.38	-139.51	-3,400.87	3,396.64	0.00	0.00	0.00
9,000.00	90.41	271.35	4,594.66	-137.15	-3,500.84	3,496.64	0.00	0.00	0.00
9,100.00	90.41	271.35	4,593.95	-134.79	-3,600.81	3,596.63	0.00	0.00	0.00
9,200.00	90.41	271.35	4,593.23	-132.43	-3,700.78	3,696.63	0.00	0.00	0.00
9,300.00	90.41	271.35	4,592.52	-130.06	-3,800.75	3,796.63	0.00	0.00	0.00
9,400.00	90.41	271.35	4,591.81	-127.70	-3,900.72	3,896.63	0.00	0.00	0.00
9,500.00	90.41	271.35	4,591.09	-125.34	-4,000.69	3,996.62	0.00	0.00	0.00



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Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned 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)
9,600.00	90.41	271.35	4,590.38	-122.98	-4,100.66	4,096.62	0.00	0.00	0.00
9,700.00	90.41	271.35	4,589.66	-120.62	-4,200.63	4,196.62	0.00	0.00	0.00
9,800.00	90.41	271.35	4,588.95	-118.25	-4,300.59	4,296.61	0.00	0.00	0.00
9,900.00	90.41	271.35	4,588.23	-115.89	-4,400.56	4,396.61	0.00	0.00	0.00
10,000.00	90.41	271.35	4,587.52	-113.53	-4,500.53	4,496.61	0.00	0.00	0.00
10,100.00	90.41	271.35	4,586.81	-111.17	-4,600.50	4,596.61	0.00	0.00	0.00
10,200.00	90.41	271.35	4,586.09	-108.81	-4,700.47	4,696.60	0.00	0.00	0.00
10,300.00	90.41	271.35	4,585.38	-106.44	-4,800.44	4,796.60	0.00	0.00	0.00
10,400.00	90.41	271.35	4,584.66	-104.08	-4,900.41	4,896.60	0.00	0.00	0.00
10,500.00	90.41	271.35	4,583.95	-101.72	-5,000.38	4,996.60	0.00	0.00	0.00
10,600.00	90.41	271.35	4,583.24	-99.36	-5,100.35	5,096.59	0.00	0.00	0.00
10,700.00	90.41	271.35	4,582.52	-97.00	-5,200.32	5,196.59	0.00	0.00	0.00
10,800.00	90.41	271.35	4,581.81	-94.63	-5,300.29	5,296.59	0.00	0.00	0.00
10,900.00	90.41	271.35	4,581.09	-92.27	-5,400.26	5,396.59	0.00	0.00	0.00
11,000.00	90.41	271.35	4,580.38	-89.91	-5,500.23	5,496.58	0.00	0.00	0.00
11,100.00	90.41	271.35	4,579.66	-87.55	-5,600.20	5,596.58	0.00	0.00	0.00
11,200.00	90.41	271.35	4,578.95	-85.19	-5,700.17	5,696.58	0.00	0.00	0.00
11,300.00	90.41	271.35	4,578.24	-82.82	-5,800.14	5,796.58	0.00	0.00	0.00
11,400.00	90.41	271.35	4,577.52	-80.46	-5,900.11	5,896.57	0.00	0.00	0.00
11,500.00	90.41	271.35	4,576.81	-78.10	-6,000.08	5,996.57	0.00	0.00	0.00
11,600.00	90.41	271.35	4,576.09	-75.74	-6,100.05	6,096.57	0.00	0.00	0.00
11,700.00	90.41	271.35	4,575.38	-73.38	-6,200.02	6,196.57	0.00	0.00	0.00
11,800.00	90.41	271.35	4,574.66	-71.01	-6,299.99	6,296.56	0.00	0.00	0.00
11,900.00	90.41	271.35	4,573.95	-68.65	-6,399.96	6,396.56	0.00	0.00	0.00
12,000.00	90.41	271.35	4,573.24	-66.29	-6,499.92	6,496.56	0.00	0.00	0.00
12,100.00	90.41	271.35	4,572.52	-63.93	-6,599.89	6,596.56	0.00	0.00	0.00
12,200.00	90.41	271.35	4,571.81	-61.57	-6,699.86	6,696.55	0.00	0.00	0.00
12,300.00	90.41	271.35	4,571.09	-59.20	-6,799.83	6,796.55	0.00	0.00	0.00
12,400.00	90.41	271.35	4,570.38	-56.84	-6,899.80	6,896.55	0.00	0.00	0.00
12,500.00	90.41	271.35	4,569.67	-54.48	-6,999.77	6,996.55	0.00	0.00	0.00
12,600.00	90.41	271.35	4,568.95	-52.12	-7,099.74	7,096.54	0.00	0.00	0.00
12,700.00	90.41	271.35	4,568.24	-49.76	-7,199.71	7,196.54	0.00	0.00	0.00
12,800.00	90.41	271.35	4,567.52	-47.39	-7,299.68	7,296.54	0.00	0.00	0.00
12,873.20	90.41	271.35	4,567.00	-45.66	-7,372.86	7,369.73	0.00	0.00	0.00
PBHL/TD 12873.20 MD 4567.00 TVD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
S Escavada 350 BHL 18 - plan hits target center - Point	0.00	360.00	4,567.00	-45.66	-7,372.86	1,861,281.755	1,247,366.610	36.108041000	-107.580629000
S Escavada 350 POE 18 - plan hits target center - Point	0.00	0.00	4,622.00	-227.57	326.08	1,861,099.847	1,255,065.533	36.107828000	-107.554563000



Planning Report

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
353.00	353.00	13 3/8" Casing	13-5/8	17-1/2	
2,712.54	2,607.00	9 5/8" Casing	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
527.00	527.00	Ojo Alamo				
637.00	637.00	Kirtland				
762.00	762.00	Fruitland				
1,095.04	1,095.00	Pictured Cliffs				
1,192.32	1,192.00	Lewis				
1,463.54	1,459.00	Chacra_A				
2,591.62	2,497.00	Cliff House_Basal				
2,602.62	2,507.00	Menefee				
3,638.64	3,457.00	Point Lookout				
3,775.81	3,590.00	Mancos				
4,092.74	3,904.00	(MNCS_A)				
4,203.77	4,015.00	MNCS_B				
4,294.10	4,105.00	MNCS_C				
4,338.91	4,149.00	MNCS_Cms				
4,486.65	4,287.00	MNCS_D				
4,658.96	4,425.00	MNCS_E				
4,730.18	4,472.00	MNCS_F				
4,851.32	4,537.00	MNCS_G (Gallup Top)				
5,008.48	4,600.00	MNCS_H				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,800.00	1,776.81	-37.14	160.88	Begin 3°/100' build/turn	
1,827.28	1,801.68	-39.81	171.77	Begin 24.54° tangent	
3,359.89	3,195.89	-199.21	787.94	Begin 3°/100' drop	
4,177.77	3,989.00	-242.40	954.91	Begin vertical hold	
4,207.83	4,019.06	-242.40	954.91	Begin 10°/100' build	
4,807.83	4,515.26	-235.65	668.51	Begin 60.00° tangent	
4,867.83	4,545.26	-234.43	616.56	Begin 10°/100' build	
5,171.92	4,622.00	-227.57	326.07	Begin 90.41° lateral	
12,873.20	4,567.00	-45.66	-7,372.86	PBHL/TD 12873.20 MD 4567.00 TVD	



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

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:	1,862,785.000 usft	Latitude:	36.112549000
From:	Lat/Long	Easting:	1,257,590.214 usft	Longitude:	-107.546094000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	S Escavada Unit 350 H, Surf loc: 2091 FSL 436 FEL Section 27-T22N-R07W					
Well Position	+N/-S	0.00 ft	Northing:	1,861,327.420 usft	Latitude:	36.108441000
	+E/-W	0.00 ft	Easting:	1,254,739.451 usft	Longitude:	-107.555677000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,749.00 ft
Grid Convergence:						

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/9/2021	8.659	62.677	49,215.25982076

Design	rev2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	271.35

Plan Survey Tool Program	Date			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,873.12 rev2 (Original Hole)		



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,800.00	24.00	103.00	1,776.81	-37.14	160.88	3.00	3.00	0.00	103.000	
1,827.28	24.54	104.50	1,801.68	-39.81	171.77	3.00	1.97	5.51	49.732	
3,359.89	24.54	104.50	3,195.89	-199.21	787.94	0.00	0.00	0.00	0.000	
4,177.77	0.00	0.00	3,989.00	-242.40	954.91	3.00	-3.00	0.00	180.000	
4,207.83	0.00	0.00	4,019.06	-242.40	954.91	0.00	0.00	0.00	0.000	
4,807.83	60.00	271.35	4,515.26	-235.65	668.51	10.00	10.00	0.00	271.350	
4,867.83	60.00	271.35	4,545.26	-234.43	616.56	0.00	0.00	0.00	0.000	
5,171.92	90.41	271.35	4,622.00	-227.57	326.07	10.00	10.00	0.00	0.007	
12,873.20	90.41	271.35	4,567.00	-45.66	-7,372.86	0.00	0.00	0.00	0.000	S Escavada 350 BHL



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned 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	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
100.00	0.00	0.00	100.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
200.00	0.00	0.00	200.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
300.00	0.00	0.00	300.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
400.00	0.00	0.00	400.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
500.00	0.00	0.00	500.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
527.00	0.00	0.00	527.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
Ojo Alamo									
600.00	0.00	0.00	600.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
637.00	0.00	0.00	637.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
Kirtland									
700.00	0.00	0.00	700.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
762.00	0.00	0.00	762.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
Fruitland									
800.00	0.00	0.00	800.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
900.00	0.00	0.00	900.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
1,000.00	0.00	0.00	1,000.00	0.00	0.00	1,861,327.420	1,254,739.451	36.108441000	-107.555677000
KOP Begin 3°/100' build									
1,095.04	2.85	103.00	1,095.00	-0.53	2.30	1,861,326.888	1,254,741.755	36.108439625	-107.555669179
Pictured Cliffs									
1,100.00	3.00	103.00	1,099.95	-0.59	2.55	1,861,326.831	1,254,742.001	36.108439477	-107.555668341
1,192.32	5.77	103.00	1,192.00	-2.18	9.43	1,861,325.243	1,254,748.879	36.108435370	-107.555644992
Lewis									
1,200.00	6.00	103.00	1,199.63	-2.35	10.19	1,861,325.066	1,254,749.645	36.108434912	-107.555642389
1,300.00	9.00	103.00	1,298.77	-5.29	22.91	1,861,322.130	1,254,762.362	36.108427318	-107.555599215
1,400.00	12.00	103.00	1,397.08	-9.39	40.67	1,861,318.031	1,254,780.116	36.108416716	-107.555538937
1,463.54	13.91	103.00	1,459.00	-12.59	54.54	1,861,314.828	1,254,793.993	36.108408429	-107.555491824
Chacra_A									
1,500.00	15.00	103.00	1,494.31	-14.64	63.41	1,861,312.781	1,254,802.860	36.108403133	-107.555461719
1,600.00	18.00	103.00	1,590.18	-21.03	91.08	1,861,306.392	1,254,830.530	36.108386609	-107.555367775
1,700.00	21.00	103.00	1,684.43	-28.54	123.60	1,861,298.884	1,254,863.052	36.108367187	-107.555257362
1,800.00	24.00	103.00	1,776.81	-37.14	160.88	1,861,290.277	1,254,900.335	36.108344922	-107.555130781
Begin 3°/100' build/turn									
1,827.28	24.54	104.50	1,801.68	-39.81	171.77	1,861,287.610	1,254,911.225	36.108337999	-107.555093801
Begin 24.54° tangent									
1,900.00	24.54	104.50	1,867.83	-47.37	201.01	1,861,280.047	1,254,940.461	36.108318306	-107.554994506
2,000.00	24.54	104.50	1,958.80	-57.77	241.21	1,861,269.647	1,254,980.664	36.108291223	-107.554857959
2,100.00	24.54	104.50	2,049.77	-68.17	281.42	1,861,259.246	1,255,020.868	36.108264141	-107.554721412
2,200.00	24.54	104.50	2,140.74	-78.57	321.62	1,861,248.846	1,255,061.072	36.108237059	-107.554584865
2,300.00	24.54	104.50	2,231.71	-88.97	361.83	1,861,238.446	1,255,101.276	36.108209976	-107.554448319
2,400.00	24.54	104.50	2,322.68	-99.37	402.03	1,861,228.045	1,255,141.479	36.108182894	-107.554311772
2,500.00	24.54	104.50	2,413.65	-109.78	442.23	1,861,217.645	1,255,181.683	36.108155811	-107.554175226
2,591.62	24.54	104.50	2,497.00	-119.30	479.07	1,861,208.116	1,255,218.519	36.108130997	-107.554050118
Cliff House_Basal									
2,600.00	24.54	104.50	2,504.62	-120.18	482.44	1,861,207.244	1,255,221.887	36.108128728	-107.554038680
2,602.62	24.54	104.50	2,507.00	-120.45	483.49	1,861,206.972	1,255,222.938	36.108128020	-107.554035108
Menefee									
2,700.00	24.54	104.50	2,595.59	-130.58	522.64	1,861,196.844	1,255,262.090	36.108101645	-107.553902134
2,800.00	24.54	104.50	2,686.56	-140.98	562.84	1,861,186.444	1,255,302.294	36.108074562	-107.553765588
2,900.00	24.54	104.50	2,777.53	-151.38	603.05	1,861,176.043	1,255,342.498	36.108047478	-107.553629042
3,000.00	24.54	104.50	2,868.50	-161.78	643.25	1,861,165.643	1,255,382.702	36.108020394	-107.553492496
3,100.00	24.54	104.50	2,959.47	-172.18	683.46	1,861,155.243	1,255,422.905	36.107993311	-107.553355950
3,200.00	24.54	104.50	3,050.44	-182.58	723.66	1,861,144.842	1,255,463.109	36.107966227	-107.553219404



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,300.00	24.54	104.50	3,141.41	-192.98	763.86	1,861,134.442	1,255,503.313	36.107939143	-107.553082858	
3,359.89	24.54	104.50	3,195.89	-199.21	787.94	1,861,128.214	1,255,527.390	36.107922923	-107.553001085	
Begin 3°/100' drop										
3,400.00	23.33	104.50	3,232.55	-203.28	803.69	1,861,124.138	1,255,543.144	36.107912309	-107.552947577	
3,500.00	20.33	104.50	3,325.37	-212.60	839.70	1,861,114.825	1,255,579.145	36.107888056	-107.552825305	
3,600.00	17.33	104.50	3,420.00	-220.68	870.94	1,861,106.741	1,255,610.394	36.107867004	-107.552719174	
3,638.64	16.17	104.50	3,457.00	-223.47	881.73	1,861,103.952	1,255,621.177	36.107859740	-107.552682552	
Point Lookout										
3,700.00	14.33	104.50	3,516.20	-227.51	897.36	1,861,099.909	1,255,636.805	36.107849212	-107.552629473	
3,775.81	12.06	104.50	3,590.00	-231.85	914.11	1,861,095.575	1,255,653.559	36.107837925	-107.552572573	
Mancos										
3,800.00	11.33	104.50	3,613.69	-233.07	918.86	1,861,094.347	1,255,658.306	36.107834727	-107.552556449	
3,900.00	8.33	104.50	3,712.21	-237.35	935.39	1,861,090.070	1,255,674.838	36.107823590	-107.552500302	
4,000.00	5.33	104.50	3,811.49	-240.33	946.91	1,861,087.091	1,255,686.355	36.107815830	-107.552461185	
4,092.74	2.55	104.50	3,904.00	-241.93	953.08	1,861,085.494	1,255,692.527	36.107811673	-107.552440223	
(MNCS_A)										
4,100.00	2.33	104.50	3,911.25	-242.00	953.38	1,861,085.417	1,255,692.826	36.107811471	-107.552439207	
4,177.77	0.00	0.00	3,989.00	-242.40	954.91	1,861,085.020	1,255,694.359	36.107810438	-107.552434001	
Begin vertical hold										
4,203.77	0.00	0.00	4,015.00	-242.40	954.91	1,861,085.020	1,255,694.359	36.107810438	-107.552434001	
MNCS_B										
4,207.83	0.00	0.00	4,019.06	-242.40	954.91	1,861,085.020	1,255,694.359	36.107810438	-107.552434001	
Begin 10°/100' build										
4,250.00	4.22	271.35	4,061.19	-242.36	953.36	1,861,085.057	1,255,692.808	36.107810482	-107.552439251	
4,294.10	8.63	271.35	4,105.00	-242.25	948.43	1,861,085.173	1,255,687.879	36.107810619	-107.552455940	
MNCS_C										
4,300.00	9.22	271.35	4,110.83	-242.23	947.51	1,861,085.194	1,255,686.964	36.107810645	-107.552459039	
4,338.91	13.11	271.35	4,149.00	-242.05	939.99	1,861,085.372	1,255,679.434	36.107810855	-107.552484531	
MNCS_Cms										
4,350.00	14.22	271.35	4,159.78	-241.99	937.37	1,861,085.434	1,255,676.816	36.107810928	-107.552493396	
4,400.00	19.22	271.35	4,207.65	-241.65	922.99	1,861,085.772	1,255,662.442	36.107811330	-107.552542061	
4,450.00	24.22	271.35	4,254.08	-241.21	904.50	1,861,086.208	1,255,643.952	36.107811846	-107.552604662	
4,486.65	27.88	271.35	4,287.00	-240.83	888.42	1,861,086.587	1,255,627.867	36.107812295	-107.552659121	
MNCS_D										
4,500.00	29.22	271.35	4,298.73	-240.68	882.04	1,861,086.737	1,255,621.487	36.107812473	-107.552680723	
4,550.00	34.22	271.35	4,341.25	-240.06	855.77	1,861,087.357	1,255,595.216	36.107813206	-107.552769667	
4,600.00	39.22	271.35	4,381.32	-239.36	825.89	1,861,088.061	1,255,565.341	36.107814040	-107.552870814	
4,650.00	44.22	271.35	4,418.63	-238.58	792.64	1,861,088.844	1,255,532.088	36.107814969	-107.552983397	
4,658.96	45.11	271.35	4,425.00	-238.43	786.34	1,861,088.993	1,255,525.792	36.107815144	-107.553004715	
MNCS_E										
4,700.00	49.22	271.35	4,452.90	-237.72	756.26	1,861,089.702	1,255,495.711	36.107815984	-107.553106558	
4,730.18	52.24	271.35	4,472.00	-237.17	732.91	1,861,090.252	1,255,472.357	36.107816636	-107.553185628	
MNCS_F										
4,750.00	54.22	271.35	4,483.86	-236.79	717.04	1,861,090.626	1,255,456.486	36.107817078	-107.553239359	
4,800.00	59.22	271.35	4,511.29	-235.81	675.26	1,861,091.610	1,255,414.713	36.107818244	-107.553380790	
4,807.83	60.00	271.35	4,515.26	-235.65	668.51	1,861,091.769	1,255,407.960	36.107818432	-107.553403652	
Begin 60.00° tangent										
4,851.32	60.00	271.35	4,537.00	-234.76	630.86	1,861,092.657	1,255,370.309	36.107819483	-107.553531127	
MNCS_G (Gallup Top)										
4,867.83	60.00	271.35	4,545.26	-234.43	616.56	1,861,092.994	1,255,356.013	36.107819881	-107.553579528	
Begin 10°/100' build										
4,900.00	63.22	271.35	4,560.55	-233.76	588.28	1,861,093.660	1,255,327.725	36.107820671	-107.553675303	
4,950.00	68.22	271.35	4,581.11	-232.69	542.73	1,861,094.734	1,255,282.176	36.107821943	-107.553829517	



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,000.00	73.22	271.35	4,597.61	-231.57	495.56	1,861,095.847	1,255,235.009	36.107823261	-107.553989208
5,008.48	74.06	271.35	4,600.00	-231.38	487.43	1,861,096.039	1,255,226.878	36.107823488	-107.554016736
MNCS_H									
5,050.00	78.22	271.35	4,609.94	-230.43	447.13	1,861,096.990	1,255,186.584	36.107824616	-107.554153161
5,100.00	83.22	271.35	4,618.01	-229.27	397.82	1,861,098.154	1,255,137.268	36.107825996	-107.554320127
5,150.00	88.22	271.35	4,621.74	-228.09	347.99	1,861,099.331	1,255,087.437	36.107827392	-107.554488837
5,171.92	90.41	271.35	4,622.00	-227.57	326.07	1,861,099.849	1,255,065.524	36.107828006	-107.554563029
Begin 90.41° lateral									
5,200.00	90.41	271.35	4,621.80	-226.91	298.00	1,861,100.512	1,255,037.455	36.107828793	-107.554658061
5,300.00	90.41	271.35	4,621.09	-224.55	198.04	1,861,102.874	1,254,937.486	36.107831595	-107.554996524
5,400.00	90.41	271.35	4,620.37	-222.18	98.07	1,861,105.236	1,254,837.516	36.107834396	-107.555334988
5,500.00	90.41	271.35	4,619.66	-219.82	-1.90	1,861,107.598	1,254,737.547	36.107837196	-107.555673451
5,600.00	90.41	271.35	4,618.95	-217.46	-101.87	1,861,109.960	1,254,637.578	36.107839995	-107.556011914
5,700.00	90.41	271.35	4,618.23	-215.10	-201.84	1,861,112.322	1,254,537.608	36.107842793	-107.556350378
5,800.00	90.41	271.35	4,617.52	-212.74	-301.81	1,861,114.684	1,254,437.639	36.107845590	-107.556688841
5,900.00	90.41	271.35	4,616.80	-210.37	-401.78	1,861,117.046	1,254,337.670	36.107848386	-107.557027304
6,000.00	90.41	271.35	4,616.09	-208.01	-501.75	1,861,119.408	1,254,237.700	36.107851181	-107.557365767
6,100.00	90.41	271.35	4,615.37	-205.65	-601.72	1,861,121.770	1,254,137.731	36.107853975	-107.557704231
6,200.00	90.41	271.35	4,614.66	-203.29	-701.69	1,861,124.132	1,254,037.762	36.107856768	-107.558042694
6,300.00	90.41	271.35	4,613.95	-200.93	-801.66	1,861,126.494	1,253,937.792	36.107859560	-107.558381157
6,400.00	90.41	271.35	4,613.23	-198.56	-901.63	1,861,128.856	1,253,837.823	36.107862352	-107.558719621
6,500.00	90.41	271.35	4,612.52	-196.20	-1,001.60	1,861,131.218	1,253,737.854	36.107865142	-107.559058084
6,600.00	90.41	271.35	4,611.80	-193.84	-1,101.57	1,861,133.580	1,253,637.884	36.107867931	-107.559396547
6,700.00	90.41	271.35	4,611.09	-191.48	-1,201.54	1,861,135.943	1,253,537.915	36.107870720	-107.559735010
6,800.00	90.41	271.35	4,610.38	-189.12	-1,301.51	1,861,138.305	1,253,437.946	36.107873507	-107.560073474
6,900.00	90.41	271.35	4,609.66	-186.75	-1,401.48	1,861,140.667	1,253,337.976	36.107876294	-107.560411937
7,000.00	90.41	271.35	4,608.95	-184.39	-1,501.45	1,861,143.029	1,253,238.007	36.107879079	-107.560750400
7,100.00	90.41	271.35	4,608.23	-182.03	-1,601.42	1,861,145.391	1,253,138.038	36.107881864	-107.561088863
7,200.00	90.41	271.35	4,607.52	-179.67	-1,701.39	1,861,147.753	1,253,038.068	36.107884647	-107.561427327
7,300.00	90.41	271.35	4,606.80	-177.31	-1,801.36	1,861,150.115	1,252,938.099	36.107887430	-107.561765790
7,400.00	90.41	271.35	4,606.09	-174.94	-1,901.33	1,861,152.477	1,252,838.130	36.107890212	-107.562104253
7,500.00	90.41	271.35	4,605.38	-172.58	-2,001.30	1,861,154.839	1,252,738.160	36.107892993	-107.562442716
7,600.00	90.41	271.35	4,604.66	-170.22	-2,101.26	1,861,157.201	1,252,638.190	36.107895772	-107.562781179
7,700.00	90.41	271.35	4,603.95	-167.86	-2,201.23	1,861,159.563	1,252,538.220	36.107898551	-107.563119643
7,800.00	90.41	271.35	4,603.23	-165.50	-2,301.20	1,861,161.925	1,252,438.251	36.107901329	-107.563458106
7,900.00	90.41	271.35	4,602.52	-163.13	-2,401.17	1,861,164.287	1,252,338.282	36.107904106	-107.563796569
8,000.00	90.41	271.35	4,601.80	-160.77	-2,501.14	1,861,166.649	1,252,238.312	36.107906882	-107.564135032
8,100.00	90.41	271.35	4,601.09	-158.41	-2,601.11	1,861,169.011	1,252,138.343	36.107909657	-107.564473495
8,200.00	90.41	271.35	4,600.38	-156.05	-2,701.08	1,861,171.373	1,252,038.374	36.107912431	-107.564811958
8,300.00	90.41	271.35	4,599.66	-153.69	-2,801.05	1,861,173.735	1,251,938.404	36.107915204	-107.565150422
8,400.00	90.41	271.35	4,598.95	-151.32	-2,901.02	1,861,176.097	1,251,838.435	36.107917976	-107.565488885
8,500.00	90.41	271.35	4,598.23	-148.96	-3,000.99	1,861,178.459	1,251,738.466	36.107920747	-107.565827348
8,600.00	90.41	271.35	4,597.52	-146.60	-3,100.96	1,861,180.821	1,251,638.496	36.107923518	-107.566165811
8,700.00	90.41	271.35	4,596.81	-144.24	-3,200.93	1,861,183.183	1,251,538.527	36.107926287	-107.566504274
8,800.00	90.41	271.35	4,596.09	-141.87	-3,300.90	1,861,185.545	1,251,438.558	36.107929055	-107.566842737
8,900.00	90.41	271.35	4,595.38	-139.51	-3,400.87	1,861,187.907	1,251,338.588	36.107931822	-107.567181200
9,000.00	90.41	271.35	4,594.66	-137.15	-3,500.84	1,861,190.269	1,251,238.619	36.107934589	-107.567519664
9,100.00	90.41	271.35	4,593.95	-134.79	-3,600.81	1,861,192.631	1,251,138.650	36.107937354	-107.567858127
9,200.00	90.41	271.35	4,593.23	-132.43	-3,700.78	1,861,194.993	1,251,038.680	36.107940119	-107.568196590
9,300.00	90.41	271.35	4,592.52	-130.06	-3,800.75	1,861,197.355	1,250,938.711	36.107942882	-107.568535053
9,400.00	90.41	271.35	4,591.81	-127.70	-3,900.72	1,861,199.717	1,250,838.742	36.107945645	-107.568873516
9,500.00	90.41	271.35	4,591.09	-125.34	-4,000.69	1,861,202.079	1,250,738.772	36.107948406	-107.569211979
9,600.00	90.41	271.35	4,590.38	-122.98	-4,100.66	1,861,204.441	1,250,638.803	36.107951167	-107.569550442
9,700.00	90.41	271.35	4,589.66	-120.62	-4,200.63	1,861,206.803	1,250,538.834	36.107953927	-107.569888905



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,800.00	90.41	271.35	4,588.95	-118.25	-4,300.59	1,861,209.165	1,250,438.864	36.107956685	-107.570227368	
9,900.00	90.41	271.35	4,588.23	-115.89	-4,400.56	1,861,211.527	1,250,338.895	36.107959443	-107.570565831	
10,000.00	90.41	271.35	4,587.52	-113.53	-4,500.53	1,861,213.889	1,250,238.926	36.107962200	-107.570904294	
10,100.00	90.41	271.35	4,586.81	-111.17	-4,600.50	1,861,216.251	1,250,138.956	36.107964956	-107.571242757	
10,200.00	90.41	271.35	4,586.09	-108.81	-4,700.47	1,861,218.613	1,250,038.987	36.107967711	-107.571581220	
10,300.00	90.41	271.35	4,585.38	-106.44	-4,800.44	1,861,220.975	1,249,939.018	36.107970465	-107.571919683	
10,400.00	90.41	271.35	4,584.66	-104.08	-4,900.41	1,861,223.337	1,249,839.048	36.107973218	-107.572258146	
10,500.00	90.41	271.35	4,583.95	-101.72	-5,000.38	1,861,225.699	1,249,739.079	36.107975970	-107.572596609	
10,600.00	90.41	271.35	4,583.24	-99.36	-5,100.35	1,861,228.061	1,249,639.109	36.107978721	-107.572935072	
10,700.00	90.41	271.35	4,582.52	-97.00	-5,200.32	1,861,230.423	1,249,539.140	36.107981471	-107.573273535	
10,800.00	90.41	271.35	4,581.81	-94.63	-5,300.29	1,861,232.785	1,249,439.171	36.107984220	-107.573611998	
10,900.00	90.41	271.35	4,581.09	-92.27	-5,400.26	1,861,235.148	1,249,339.201	36.107986968	-107.573950461	
11,000.00	90.41	271.35	4,580.38	-89.91	-5,500.23	1,861,237.510	1,249,239.232	36.107989716	-107.574288924	
11,100.00	90.41	271.35	4,579.66	-87.55	-5,600.20	1,861,239.872	1,249,139.263	36.107992462	-107.574627387	
11,200.00	90.41	271.35	4,578.95	-85.19	-5,700.17	1,861,242.234	1,249,039.293	36.107995207	-107.574965850	
11,300.00	90.41	271.35	4,578.24	-82.82	-5,800.14	1,861,244.596	1,248,939.324	36.107997952	-107.575304313	
11,400.00	90.41	271.35	4,577.52	-80.46	-5,900.11	1,861,246.958	1,248,839.355	36.108000695	-107.575642776	
11,500.00	90.41	271.35	4,576.81	-78.10	-6,000.08	1,861,249.320	1,248,739.385	36.108003438	-107.575981239	
11,600.00	90.41	271.35	4,576.09	-75.74	-6,100.05	1,861,251.682	1,248,639.416	36.108006179	-107.576319702	
11,700.00	90.41	271.35	4,575.38	-73.38	-6,200.02	1,861,254.044	1,248,539.447	36.108008920	-107.576658165	
11,800.00	90.41	271.35	4,574.66	-71.01	-6,299.99	1,861,256.406	1,248,439.477	36.108011659	-107.576996628	
11,900.00	90.41	271.35	4,573.95	-68.65	-6,399.96	1,861,258.768	1,248,339.508	36.108014398	-107.577335091	
12,000.00	90.41	271.35	4,573.24	-66.29	-6,499.92	1,861,261.130	1,248,239.539	36.108017136	-107.577673553	
12,100.00	90.41	271.35	4,572.52	-63.93	-6,599.89	1,861,263.492	1,248,139.569	36.108019872	-107.578012016	
12,200.00	90.41	271.35	4,571.81	-61.57	-6,699.86	1,861,265.854	1,248,039.600	36.108022608	-107.578350479	
12,300.00	90.41	271.35	4,571.09	-59.20	-6,799.83	1,861,268.216	1,247,939.631	36.108025343	-107.578688942	
12,400.00	90.41	271.35	4,570.38	-56.84	-6,899.80	1,861,270.578	1,247,839.661	36.108028077	-107.579027404	
12,500.00	90.41	271.35	4,569.67	-54.48	-6,999.77	1,861,272.940	1,247,739.692	36.108030810	-107.579365867	
12,600.00	90.41	271.35	4,568.95	-52.12	-7,099.74	1,861,275.302	1,247,639.723	36.108033542	-107.579704330	
12,700.00	90.41	271.35	4,568.24	-49.76	-7,199.71	1,861,277.664	1,247,539.753	36.108036272	-107.580042793	
12,800.00	90.41	271.35	4,567.52	-47.39	-7,299.68	1,861,280.026	1,247,439.784	36.108039003	-107.580381256	
12,873.20	90.41	271.35	4,567.00	-45.66	-7,372.86	1,861,281.755	1,247,366.610	36.108041000	-107.580629000	
PBHL/TD 12873.20 MD 4567.00 TVD										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
S Escavada 350 BHL 18 - plan hits target center - Point	0.00	360.00	4,567.00	-45.66	-7,372.86	1,861,281.755	1,247,366.610	36.108041000	-107.580629000	
S Escavada 350 POE 1f - plan hits target center - Point	0.00	0.00	4,622.00	-227.57	326.08	1,861,099.847	1,255,065.533	36.107828000	-107.554563000	



Planning Report - Geographic

Database:	DB_Dec2220_v16	Local Co-ordinate Reference:	Well S Escavada Unit 350 H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6749+28 @ 6777.00ft
Project:	Sandoval County, New Mexico NAD83 NM C	MD Reference:	RKB=6749+28 @ 6777.00ft
Site:	S Escavada Unit	North Reference:	Grid
Well:	S Escavada Unit 350 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev2		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
353.00	353.00	13 3/8" Casing	13-5/8	17-1/2	
2,712.54	2,607.00	9 5/8" Casing	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
527.00	527.00	Ojo Alamo				
637.00	637.00	Kirtland				
762.00	762.00	Fruitland				
1,095.04	1,095.00	Pictured Cliffs				
1,192.32	1,192.00	Lewis				
1,463.54	1,459.00	Chacra_A				
2,591.62	2,497.00	Cliff House_Basal				
2,602.62	2,507.00	Menefee				
3,638.64	3,457.00	Point Lookout				
3,775.81	3,590.00	Mancos				
4,092.74	3,904.00	(MNCS_A)				
4,203.77	4,015.00	MNCS_B				
4,294.10	4,105.00	MNCS_C				
4,338.91	4,149.00	MNCS_Cms				
4,486.65	4,287.00	MNCS_D				
4,658.96	4,425.00	MNCS_E				
4,730.18	4,472.00	MNCS_F				
4,851.32	4,537.00	MNCS_G (Gallup Top)				
5,008.48	4,600.00	MNCS_H				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,800.00	1,776.81	-37.14	160.88	Begin 3°/100' build/turn	
1,827.28	1,801.68	-39.81	171.77	Begin 24.54° tangent	
3,359.89	3,195.89	-199.21	787.94	Begin 3°/100' drop	
4,177.77	3,989.00	-242.40	954.91	Begin vertical hold	
4,207.83	4,019.06	-242.40	954.91	Begin 10°/100' build	
4,807.83	4,515.26	-235.65	668.51	Begin 60.00° tangent	
4,867.83	4,545.26	-234.43	616.56	Begin 10°/100' build	
5,171.92	4,622.00	-227.57	326.07	Begin 90.41° lateral	
12,873.20	4,567.00	-45.66	-7,372.86	PBHL/TD 12873.20 MD 4567.00 TVD	

WELL NAME: S ESCAVADA UNIT 350H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-H formation

API Number: 30-043-21318

AFE Number: DV03063

ER Well Number: NM08099.01

State: New Mexico

County: Sandoval

Surface Elev.: 6,749 ft ASL (GL) 6,777 ft ASL (KB)

Surface Location: 27-22N-07W Sec-Twn-Rng 436 ft FEL

BH Location: 28-22N-07W Sec-Twn-Rng 2530 ft FEL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 48.9 miles to MM 103; Right (South) on Atkins Road for 3.2 miles to fork; Left (South) continuing on Atkins Road for 1.1 miles to 4-way intersection; Straight (south) for 1.6 miles to 4-way intersection; Straight (South) for 1.9 miles to fork; Left (South) for 0.4 miles to fork; Right (South) for 0.3 miles to S Escavada Unit 350H access road; Left (South) along 350H access road for 0.7 miles to S Escavada Unit 350H Pad (Wells: 347H, 350H & 351H).

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,713	9.625	36.0	J-55	LTC	0	2,713
Production	8.500	12,873	5.500	17.0	P-110	LTC	0	12,873

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	Type III	14.6	1.39	6.686	0.6946	100%	0	350
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.3627	70%	0	523
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,213	136
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	480
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	3,776	1,470

COMPLETION / PRODUCTION SUMMARY:

Frac: 35 plug-and-perf stages with 270,000 bbls slickwater fluid and 12,500,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assistance)

Production: Produce through production tubing via gas-lift into permanent production and storage facilities

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,713 ft
KOP (MD)	4,208 ft
KOP (TVD)	4,019 ft
Target (TVD)	4,622 ft
Curve BUR	10 °/100 ft
POE (MD)	5,172 ft
TD (MD)	12,873 ft
Lat Len (ft)	7,701 ft

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	527	527
Kirtland	637	637
Fruitland	762	762
Pictured Cliffs	1,095	1,095
Lewis	1,192	1,192
Chacra	1,459	1,464
Cliff House	2,497	2,592
Menefee	2,507	2,603
Point Lookout	3,457	3,639
Mancos	3,590	3,776
Gallup (MNCS_A)	3,904	4,093
MNCS_B	4,015	4,204
MNCS_C	4,105	4,294
MNCS_Cms	4,149	4,339
MNCS_D	4,287	4,487
MNCS_E	4,425	4,659
MNCS_F	4,472	4,730
MNCS_G	4,537	4,851
MNCS_H	4,600	5,008
LANDING PT (FTP) TARGET	4,622	5,172
PROJECTED LTP	4,567	12,873

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No.
N0-G-1312-1826

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other7. If Unit of CA/Agreement, Name and/or No.
NMNM130812A8. Well Name and No.
S Escavada Unit 350H

2. Name of Operator

Enduring Resources IV LLC9. API Well No.
30-043-21318

3a. Address

200 Energy Court Farmington NM 87401

3b. Phone No. (include area code)

505-636-974310. Field and Pool or Exploratory Area
Rusty Gallup

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 2091' FSL & 436' FEL, Sec 27 T22N, R7W**BHL: 1850' FSL & 2622' FWL, Sec 28 T22N, R7W**11. Country or Parish, State
Sandoval, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other COMPLETIONS
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

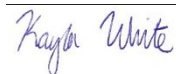
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

1/17/22 through 1/19/22- Pre frac site set up, MIRU, Pressure test**1/19/22 through 1/31/22-** 24 hour frac operations. 32 total stages, 5230'-12862' MD. total holes 896. Perfed w 0.42" holes with SFT-NE45B, FRP-48H, CSA-2400, Bardac 2250M, SCI-611W, SOUR-N8R & 11,868,110 lbs total proppant.**3/12/2022 through 3/18/2022 -** Drill out Ops**3/21/2022 -** Land Tubing

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Kayla White

Title: Environmental Engineer



Date: 8/17/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-4

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED

OMB NO. 1004-

0137

Expires: January 31, 2018

5. Lease Serial No.

N0-G-1312-1826

1a. Type of Well ☒ Oil Well ☐ Well ☐ Dry ☐ Other
 b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing
☐ Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

NMNM130812A

2. Name of Operator

Enduring Resources IV LLC

8. Lease Name and Well No.

S Escavada Unit 350H

3. Address

200 Energy Court Farmington NM 87402

3a. Phone No. (Include area code)

505-636-9743

9. API Well No.

30-043-21318

4. Location of Well (Report location clearly and in accordance with Federal requirements) *

At surface

SHL: 2091' FSL & 436' FEL, Sec 27 T22N, R7W**BHL: 1850' FSL & 2622' FWL, Sec 28 T22N, R7W**

10. Field and Pool or Exploratory

Rusty Gallup

11. Sec., T., R., M., on Block and Survey or Area

Sec 27 T22N R7W

12. County or Parish

Sandoval

13. State

NM

At top prod. interval reported below At total depth

14. Date Spudded

11/14/2021

15. Date T.D. Reached

12/29/2022

16. Date Completed 3/20/2022

☐ D & A☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*

6777' KB

18. Total Depth: **12972' MD****4533' TVD**19. Plug Back T.D.: **12862' MD****4536' TVD**

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored?

☒ No☐ Yes (Submit analysis)

Was DST run?

☒ No☐ Yes (Submit report)

Directional Survey?

☐ No☒ Yes (Submit copy)

(June 2015)

UNITED STATES

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8", J-55	54.5	0	360' MD		350	86.6	surface	
12-1/4"	9-5/8", J-55	36	0	2736' MD		670	232	surface	
8-1/2"	5-1/2", P-110	17	0	12972' MD		1949	609	surface	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8", 6.5#, L-80	4919'	4852'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
Gallup	4540' TVD	4665' TVD	5230' - 12862' MD	.42	896	

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
5230' - 12862' MD	32 total stages, total holes 896. Perfed w 0.42" holes with SFT-NE45B, FRP-48H, CSA-2400, Bardac 2250M, SCI-611W, SOUR-N8R & 11,868,110 lbs total proppant.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
3/25/2022	3/26/2022	24 hr		210	880	1203			Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	310	1120						Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28. Disposition of Gas (Solid, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, fl and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
OJAM	527				
KRLD	637				
FRLD	762				
PCCF	1,095				
CLFH	2,497				
MENF	2,507				
PNLK	3,462				
MNCS	3,578				
Gallup	4,540				

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions) *

Name (please print) Kayla WhiteTitle Assistant Consultant, Environmental EngineerSignature Kayla WhiteDate: 4/18/2022

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

ACKNOWLEDGMENTS

Action 135199

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 135199
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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

CONDITIONS

Action 135199

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 135199
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days of BLM approval.	3/21/2024