

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**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.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ 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 detennined that the site is ready for final inspection.)

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

Title

Signature

Date

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SESW / 191 FSL / 1365 FWL / TWSP: 23N / RANGE: 9W / SECTION: 25 / LAT: 36.191179 / LONG: -107.7448 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 2 / 383 FNL / 1979 FEL / TWSP: 23N / RANGE: 8W / SECTION: 31 / LAT: 36.189581 / LONG: -107.737604 (TVD: 4255 feet, MD: 4497 feet)

PPP: NWNE / 383 FNL / 1979 FEL / TWSP: 23N / RANGE: 8W / SECTION: 36 / LAT: 36.189581 / LONG: -107.737604 (TVD: 4255 feet, MD: 4497 feet)

BHL: SESW / 332 FSL / 2547 FWL / TWSP: 23N / RANGE: 8W / SECTION: 31 / LAT: 36.177018 / LONG: -107.722854 (TVD: 4651 feet, MD: 11915 feet)

CONFIDENTIAL

District I
611 S. First Street, Artesia, NM 88210
Phone: (505) 393-6161 Fax: (505) 393-0720

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	³ Pool Name
	97232	BASIN MANCOS
⁴ Property Code	⁵ Property Name	⁶ Well Number
321253	RODEO UNIT	511H
⁷ GRID No.	⁸ Operator Name	⁹ Elevation
372286	ENDURING RESOURCES, LLC	6798'

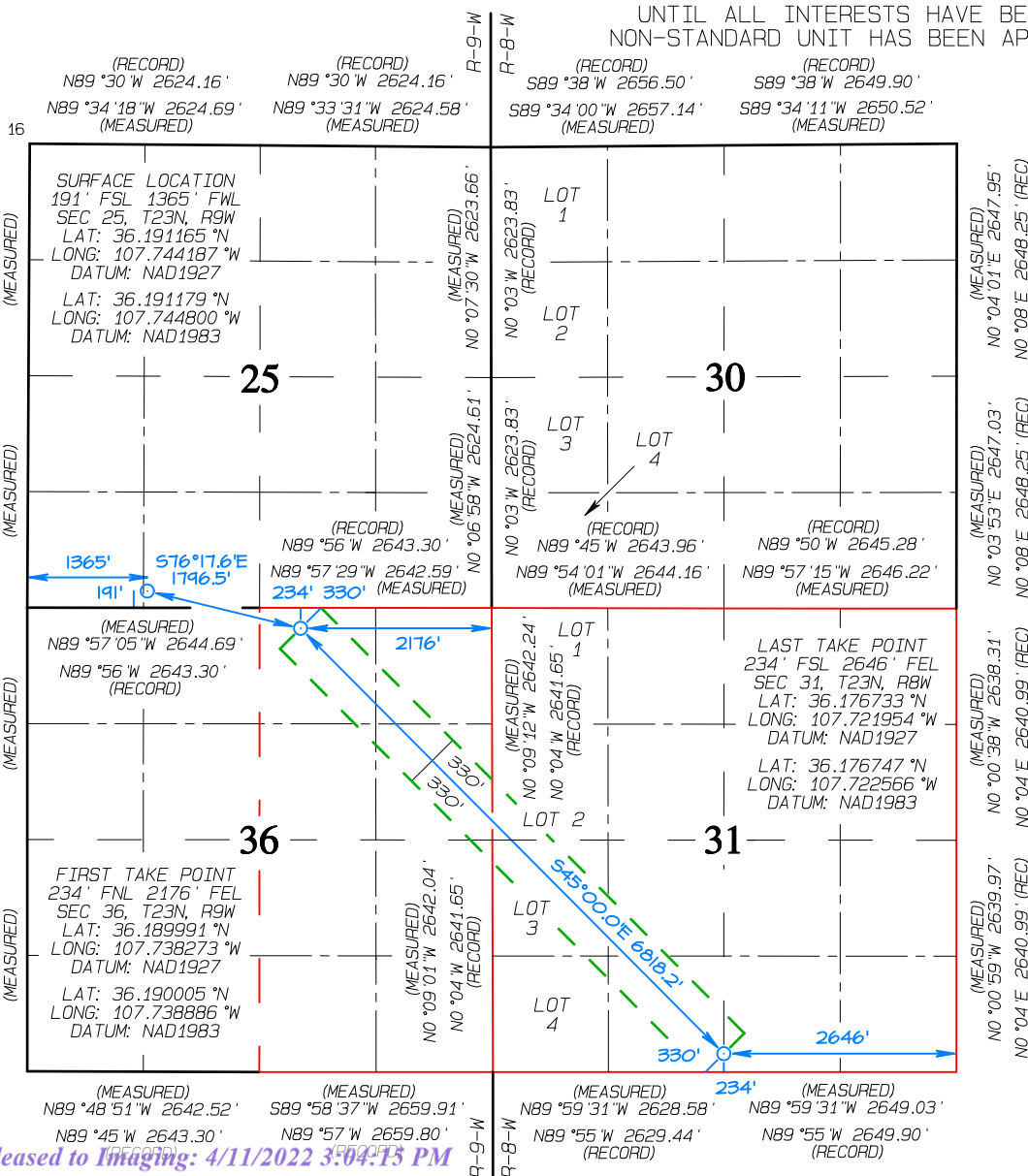
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	25	23N	9W		191	SOUTH	1365	WEST	SAN JUAN

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	31	23N	8W		234	SOUTH	2646	EAST	SAN JUAN
¹² Dedicated Acres					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		
961.48	Entire Section 31, T23NR8W W/2 - Section 36, T23NR9W						R-14313		

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.

Khem Suthiwan 3/22/2022
Signature Date

Khem Suthiwan
Printed Name

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: FEBRUARY 28, 2022
Survey Date: JANUARY 24, 2017

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Well: Rodeo Unit #511H
Site: Rodeo Unit 511 pad (511, 512 & 513)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig: Ensign 773

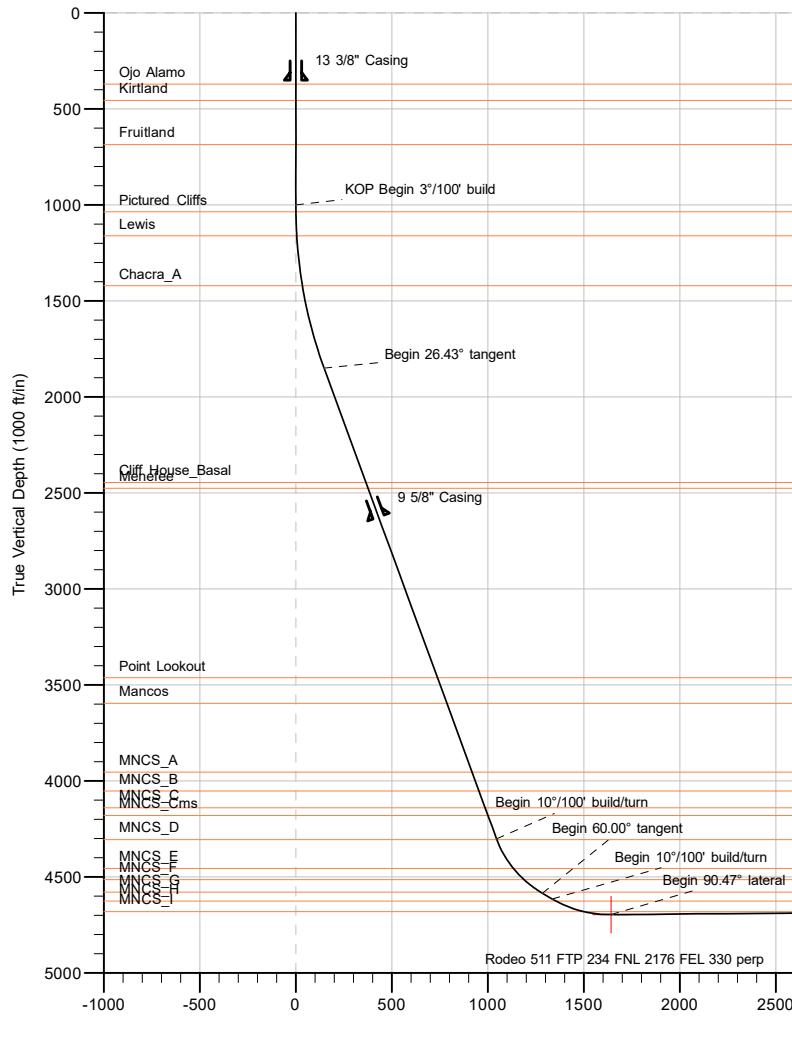
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	East	Lat	Long
Rodeo 511 LTP 234 FSL 2646 FEL 330 perp	4642.00	-5246.80	6566.64	1883651.561	2755781.987	36.176747000	-107.722566000
Rodeo 511 FTP 234 FNL 2176 FEL 330 perp	4697.00	-425.54	1926.36	1888472.810	2751141.714	36.190005000	-107.738273000

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6798+28 @ 6826.00ft (Ensign 773)
Surface location:
Northing: 1888898.346 Easting: 2749215.361 Latitude: 36.191179000 Longitude: -107.744800000



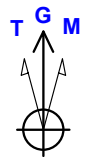
Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.67°



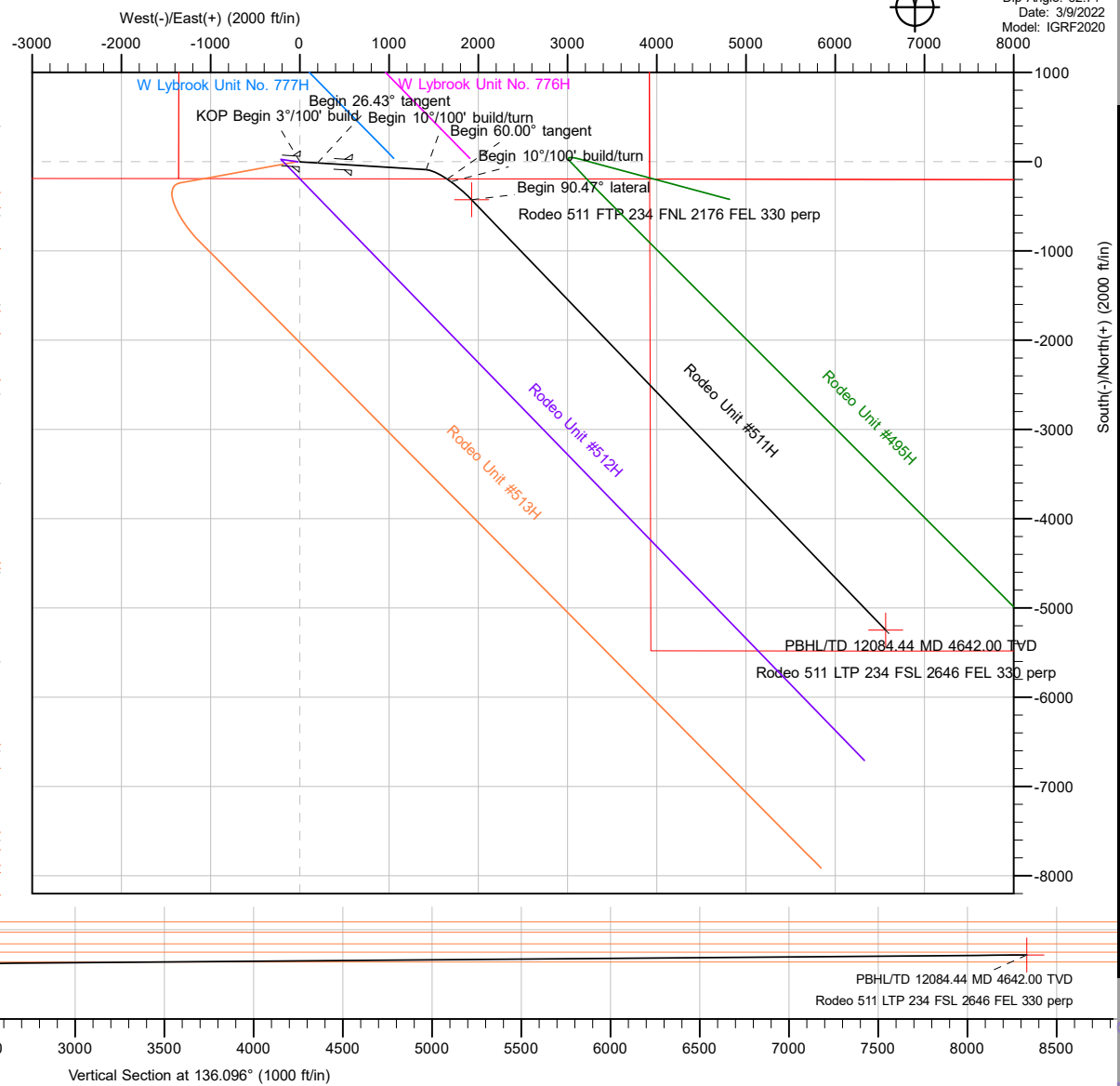
Section Details										Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.00	0.00	Begin 26.43° tangent
3	1881.10	26.43	93.582	1850.18	-12.47	199.28	3.00	93.58	147.18	Begin 10°/100' build/turn
4	4619.76	26.43	93.582	4302.52	-88.64	1416.01	0.00	0.00	1045.80	Begin 60.00° tangent
5	5009.32	60.00	124.740	4585.31	-194.28	1650.26	10.00	45.45	1284.36	Begin 10°/100' build/turn
6	5069.32	60.00	124.740	4615.31	-223.89	1692.96	0.00	0.00	1335.30	Begin 90.47° lateral
7	5392.67	90.47	136.096	4697.00	-425.54	1926.36	10.00	21.60	1642.44	PBHL/TD 12084.44 MD 4642.00
8	12084.44	90.47	136.096	4642.00	-5246.80	6566.64	0.00	0.00	8333.98	

CASING DETAILS

TVD	MD	Name
350.00	350.00	13 3/8" Casing
2626.00	2747.50	9 5/8" Casing

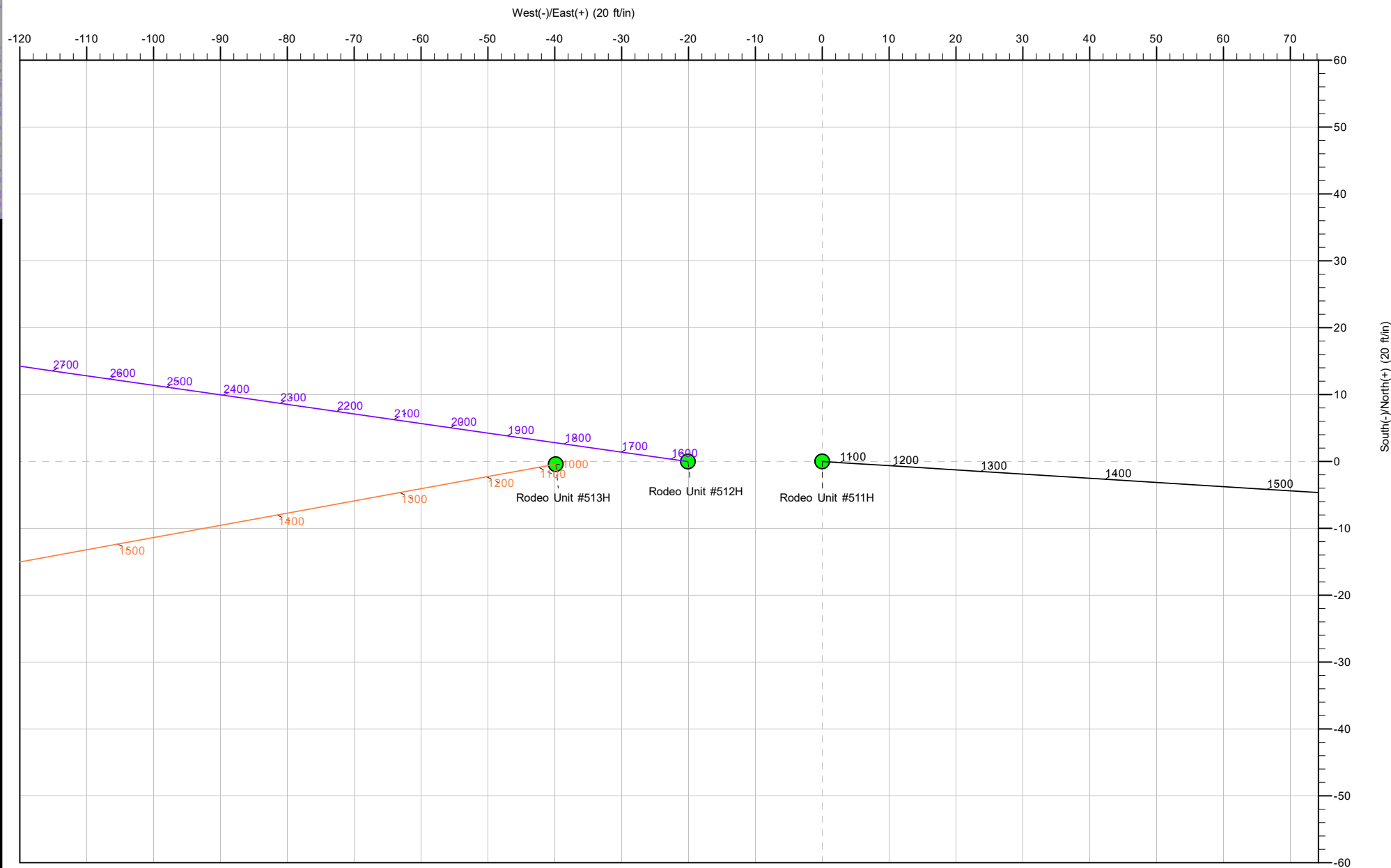


Azimuths to Grid North
True North: -0.05°
Magnetic North: 8.67°
Magnetic Field
Strength: 49212.6nT
Dip Angle: 62.71°
Date: 3/9/2022
Model: IGRF2020





Well: Rodeo Unit #511H
Site: Rodeo Unit 511 pad (511, 512 & 513)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig: Ensign 773





Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project	San Juan County, New Mexico NAD83 NM W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Rodeo Unit 511 pad (511, 512 & 513)				
Site Position:		Northing:	1,888,898.347 usft	Latitude:	36.191179000
From:	Lat/Long	Easting:	2,749,215.362 usft	Longitude:	-107.744800000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Rodeo Unit #511H, Surf loc: 191 FSL 1365 FWL Section 25-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,888,898.347 usft	Latitude:	36.191179000
	+E/-W	0.00 ft	Easting:	2,749,215.362 usft	Longitude:	-107.744800000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,798.00 ft
Grid Convergence:		0.05 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/9/2022	8.72	62.71	49,212.59253693

Design	rev0				
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	136.096	

Plan Survey Tool Program	Date	3/29/2022			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	12,084.43	rev0 (Original Hole)	MWD	
				OWSG MWD - Standard	

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	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.000	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,881.10	26.433	93.582	1,850.18	-12.47	199.28	3.00	3.00	0.00	93.58	
4,619.76	26.433	93.582	4,302.52	-88.64	1,416.01	0.00	0.00	0.00	0.00	
5,009.32	60.000	124.740	4,585.31	-194.28	1,650.26	10.00	8.62	8.00	45.45	
5,069.32	60.000	124.740	4,615.31	-223.89	1,692.96	0.00	0.00	0.00	0.00	
5,392.67	90.471	136.096	4,697.00	-425.54	1,926.36	10.00	9.42	3.51	21.60	
12,084.44	90.471	136.096	4,642.00	-5,246.80	6,566.64	0.00	0.00	0.00	0.00	Rodeo 511 LTP 234 F



Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.000	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.000	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.000	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
371.00	0.000	0.000	371.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo									
400.00	0.000	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
456.00	0.000	0.000	456.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
500.00	0.000	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.000	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
686.00	0.000	0.000	686.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland									
700.00	0.000	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.000	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.000	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.000	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,036.00	1.080	93.582	1,036.00	-0.02	0.34	0.25	3.00	3.00	0.00
Pictured Cliffs									
1,100.00	3.000	93.582	1,099.95	-0.16	2.61	1.93	3.00	3.00	0.00
1,161.19	4.836	93.582	1,161.00	-0.42	6.78	5.01	3.00	3.00	0.00
Lewis									
1,200.00	6.000	93.582	1,199.63	-0.65	10.44	7.71	3.00	3.00	0.00
1,300.00	9.000	93.582	1,298.77	-1.47	23.47	17.33	3.00	3.00	0.00
1,400.00	12.000	93.582	1,397.08	-2.61	41.65	30.76	3.00	3.00	0.00
1,424.49	12.735	93.582	1,421.00	-2.93	46.89	34.63	3.00	3.00	0.00
Chacra_A									
1,500.00	15.000	93.582	1,494.31	-4.07	64.95	47.97	3.00	3.00	0.00
1,600.00	18.000	93.582	1,590.18	-5.84	93.29	68.90	3.00	3.00	0.00
1,700.00	21.000	93.582	1,684.43	-7.92	126.60	93.50	3.00	3.00	0.00
1,800.00	24.000	93.582	1,776.81	-10.32	164.79	121.71	3.00	3.00	0.00
1,881.10	26.433	93.582	1,850.18	-12.47	199.28	147.18	3.00	3.00	0.00
Begin 26.43° tangent									
1,900.00	26.433	93.582	1,867.10	-13.00	207.67	153.38	0.00	0.00	0.00
2,000.00	26.433	93.582	1,956.65	-15.78	252.10	186.19	0.00	0.00	0.00
2,100.00	26.433	93.582	2,046.19	-18.56	296.53	219.00	0.00	0.00	0.00
2,200.00	26.433	93.582	2,135.74	-21.34	340.96	251.81	0.00	0.00	0.00
2,300.00	26.433	93.582	2,225.28	-24.12	385.38	284.63	0.00	0.00	0.00
2,400.00	26.433	93.582	2,314.83	-26.90	429.81	317.44	0.00	0.00	0.00
2,500.00	26.433	93.582	2,404.37	-29.69	474.24	350.25	0.00	0.00	0.00
2,546.49	26.433	93.582	2,446.00	-30.98	494.89	365.51	0.00	0.00	0.00
Cliff House_Basal									
2,579.99	26.433	93.582	2,476.00	-31.91	509.78	376.50	0.00	0.00	0.00
Menefee									
2,600.00	26.433	93.582	2,493.92	-32.47	518.67	383.06	0.00	0.00	0.00
2,700.00	26.433	93.582	2,583.46	-35.25	563.10	415.88	0.00	0.00	0.00
2,800.00	26.433	93.582	2,673.01	-38.03	607.53	448.69	0.00	0.00	0.00
2,900.00	26.433	93.582	2,762.56	-40.81	651.95	481.50	0.00	0.00	0.00
3,000.00	26.433	93.582	2,852.10	-43.59	696.38	514.31	0.00	0.00	0.00
3,100.00	26.433	93.582	2,941.65	-46.37	740.81	547.13	0.00	0.00	0.00
3,200.00	26.433	93.582	3,031.19	-49.15	785.24	579.94	0.00	0.00	0.00
3,300.00	26.433	93.582	3,120.74	-51.93	829.67	612.75	0.00	0.00	0.00



Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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)
3,400.00	26.433	93.582	3,210.28	-54.71	874.10	645.56	0.00	0.00	0.00
3,500.00	26.433	93.582	3,299.83	-57.49	918.52	678.38	0.00	0.00	0.00
3,600.00	26.433	93.582	3,389.37	-60.28	962.95	711.19	0.00	0.00	0.00
3,682.22	26.433	93.582	3,463.00	-62.56	999.48	738.17	0.00	0.00	0.00
Point Lookout									
3,700.00	26.433	93.582	3,478.92	-63.06	1,007.38	744.00	0.00	0.00	0.00
3,800.00	26.433	93.582	3,568.47	-65.84	1,051.81	776.81	0.00	0.00	0.00
3,830.75	26.433	93.582	3,596.00	-66.69	1,065.47	786.90	0.00	0.00	0.00
Mancos									
3,900.00	26.433	93.582	3,658.01	-68.62	1,096.24	809.63	0.00	0.00	0.00
4,000.00	26.433	93.582	3,747.56	-71.40	1,140.66	842.44	0.00	0.00	0.00
4,100.00	26.433	93.582	3,837.10	-74.18	1,185.09	875.25	0.00	0.00	0.00
4,200.00	26.433	93.582	3,926.65	-76.96	1,229.52	908.06	0.00	0.00	0.00
4,230.55	26.433	93.582	3,954.00	-77.81	1,243.09	918.09	0.00	0.00	0.00
MNCS_A									
4,300.00	26.433	93.582	4,016.19	-79.74	1,273.95	940.88	0.00	0.00	0.00
4,341.10	26.433	93.582	4,053.00	-80.89	1,292.21	954.36	0.00	0.00	0.00
MNCS_B									
4,400.00	26.433	93.582	4,105.74	-82.52	1,318.38	973.69	0.00	0.00	0.00
4,438.26	26.433	93.582	4,140.00	-83.59	1,335.38	986.24	0.00	0.00	0.00
MNCS_C									
4,482.93	26.433	93.582	4,180.00	-84.83	1,355.22	1,000.90	0.00	0.00	0.00
MNCS_Cms									
4,500.00	26.433	93.582	4,195.28	-85.30	1,362.81	1,006.50	0.00	0.00	0.00
4,600.00	26.433	93.582	4,284.83	-88.09	1,407.23	1,039.32	0.00	0.00	0.00
4,619.76	26.433	93.582	4,302.52	-88.64	1,416.01	1,045.80	0.00	0.00	0.00
Begin 10°/100' build/turn									
4,623.65	26.707	94.198	4,306.00	-88.75	1,417.75	1,047.09	10.00	7.05	15.86
MNCS_D									
4,650.00	28.630	98.082	4,329.34	-90.07	1,429.91	1,056.47	10.00	7.30	14.74
4,700.00	32.531	104.243	4,372.39	-95.07	1,454.81	1,077.34	10.00	7.80	12.32
4,750.00	36.674	109.181	4,413.54	-103.29	1,481.96	1,102.09	10.00	8.29	9.88
4,800.00	40.984	113.229	4,452.49	-114.67	1,511.15	1,130.53	10.00	8.62	8.10
4,804.66	41.393	113.570	4,456.00	-115.89	1,513.97	1,133.36	10.00	8.76	7.32
MNCS_E									
4,850.00	45.413	116.623	4,488.94	-129.12	1,542.15	1,162.44	10.00	8.87	6.73
4,886.80	48.729	118.803	4,514.00	-141.66	1,566.00	1,188.01	10.00	9.01	5.92
MNCS_F									
4,900.00	49.928	119.531	4,522.60	-146.54	1,574.74	1,197.59	10.00	9.08	5.52
4,950.00	54.507	122.075	4,553.23	-166.79	1,608.65	1,235.70	10.00	9.16	5.09
4,996.92	58.847	124.209	4,579.00	-188.23	1,641.46	1,273.90	10.00	9.25	4.55
MNCS_G									
5,000.00	59.133	124.342	4,580.59	-189.72	1,643.64	1,276.48	10.00	9.29	4.32
5,009.32	60.000	124.740	4,585.31	-194.28	1,650.26	1,284.36	10.00	9.30	4.27
Begin 60.00° tangent									
5,069.32	60.000	124.740	4,615.31	-223.89	1,692.96	1,335.30	0.00	0.00	0.00
Begin 10°/100' build/turn									
5,091.39	62.055	125.659	4,626.00	-235.02	1,708.74	1,354.26	10.00	9.31	4.17
MNCS_H									
5,100.00	62.858	126.009	4,629.98	-239.49	1,714.92	1,361.77	10.00	9.33	4.06
5,150.00	67.540	127.945	4,650.95	-266.79	1,751.16	1,406.57	10.00	9.36	3.87
5,200.00	72.242	129.754	4,668.14	-296.24	1,787.71	1,453.13	10.00	9.41	3.62



Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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)
5,248.19	76.790	131.409	4,681.00	-326.45	1,822.97	1,499.35	10.00	9.44	3.43
MNCS_I									
5,250.00	76.961	131.470	4,681.41	-327.62	1,824.29	1,501.10	10.00	9.45	3.36
5,300.00	81.690	133.122	4,690.67	-360.68	1,860.62	1,550.12	10.00	9.46	3.30
5,350.00	86.426	134.734	4,695.84	-395.17	1,896.42	1,599.80	10.00	9.47	3.22
5,392.67	90.471	136.096	4,697.00	-425.54	1,926.36	1,642.44	10.00	9.48	3.19
Begin 90.47° lateral									
5,400.00	90.471	136.096	4,696.94	-430.82	1,931.44	1,649.77	0.00	0.00	0.00
5,500.00	90.471	136.096	4,696.12	-502.87	2,000.78	1,749.76	0.00	0.00	0.00
5,600.00	90.471	136.096	4,695.30	-574.92	2,070.12	1,849.76	0.00	0.00	0.00
5,700.00	90.471	136.096	4,694.47	-646.96	2,139.47	1,949.76	0.00	0.00	0.00
5,800.00	90.471	136.096	4,693.65	-719.01	2,208.81	2,049.75	0.00	0.00	0.00
5,900.00	90.471	136.096	4,692.83	-791.06	2,278.15	2,149.75	0.00	0.00	0.00
6,000.00	90.471	136.096	4,692.01	-863.11	2,347.50	2,249.75	0.00	0.00	0.00
6,100.00	90.471	136.096	4,691.19	-935.15	2,416.84	2,349.74	0.00	0.00	0.00
6,200.00	90.471	136.096	4,690.36	-1,007.20	2,486.18	2,449.74	0.00	0.00	0.00
6,300.00	90.471	136.096	4,689.54	-1,079.25	2,555.53	2,549.74	0.00	0.00	0.00
6,400.00	90.471	136.096	4,688.72	-1,151.30	2,624.87	2,649.73	0.00	0.00	0.00
6,500.00	90.471	136.096	4,687.90	-1,223.34	2,694.21	2,749.73	0.00	0.00	0.00
6,600.00	90.471	136.096	4,687.08	-1,295.39	2,763.55	2,849.73	0.00	0.00	0.00
6,700.00	90.471	136.096	4,686.25	-1,367.44	2,832.90	2,949.72	0.00	0.00	0.00
6,800.00	90.471	136.096	4,685.43	-1,439.49	2,902.24	3,049.72	0.00	0.00	0.00
6,900.00	90.471	136.096	4,684.61	-1,511.53	2,971.58	3,149.72	0.00	0.00	0.00
7,000.00	90.471	136.096	4,683.79	-1,583.58	3,040.93	3,249.71	0.00	0.00	0.00
7,100.00	90.471	136.096	4,682.97	-1,655.63	3,110.27	3,349.71	0.00	0.00	0.00
7,200.00	90.471	136.096	4,682.14	-1,727.68	3,179.61	3,449.71	0.00	0.00	0.00
7,300.00	90.471	136.096	4,681.32	-1,799.72	3,248.96	3,549.70	0.00	0.00	0.00
7,400.00	90.471	136.096	4,680.50	-1,871.77	3,318.30	3,649.70	0.00	0.00	0.00
7,500.00	90.471	136.096	4,679.68	-1,943.82	3,387.64	3,749.70	0.00	0.00	0.00
7,600.00	90.471	136.096	4,678.86	-2,015.87	3,456.99	3,849.69	0.00	0.00	0.00
7,700.00	90.471	136.096	4,678.04	-2,087.91	3,526.33	3,949.69	0.00	0.00	0.00
7,800.00	90.471	136.096	4,677.21	-2,159.96	3,595.67	4,049.69	0.00	0.00	0.00
7,900.00	90.471	136.096	4,676.39	-2,232.01	3,665.02	4,149.68	0.00	0.00	0.00
8,000.00	90.471	136.096	4,675.57	-2,304.06	3,734.36	4,249.68	0.00	0.00	0.00
8,100.00	90.471	136.096	4,674.75	-2,376.10	3,803.70	4,349.68	0.00	0.00	0.00
8,200.00	90.471	136.096	4,673.93	-2,448.15	3,873.05	4,449.67	0.00	0.00	0.00
8,300.00	90.471	136.096	4,673.10	-2,520.20	3,942.39	4,549.67	0.00	0.00	0.00
8,400.00	90.471	136.096	4,672.28	-2,592.25	4,011.73	4,649.67	0.00	0.00	0.00
8,500.00	90.471	136.096	4,671.46	-2,664.30	4,081.08	4,749.66	0.00	0.00	0.00
8,600.00	90.471	136.096	4,670.64	-2,736.34	4,150.42	4,849.66	0.00	0.00	0.00
8,700.00	90.471	136.096	4,669.82	-2,808.39	4,219.76	4,949.66	0.00	0.00	0.00
8,800.00	90.471	136.096	4,668.99	-2,880.44	4,289.10	5,049.65	0.00	0.00	0.00
8,900.00	90.471	136.096	4,668.17	-2,952.49	4,358.45	5,149.65	0.00	0.00	0.00
9,000.00	90.471	136.096	4,667.35	-3,024.53	4,427.79	5,249.65	0.00	0.00	0.00
9,100.00	90.471	136.096	4,666.53	-3,096.58	4,497.13	5,349.64	0.00	0.00	0.00
9,200.00	90.471	136.096	4,665.71	-3,168.63	4,566.48	5,449.64	0.00	0.00	0.00
9,300.00	90.471	136.096	4,664.89	-3,240.68	4,635.82	5,549.64	0.00	0.00	0.00
9,400.00	90.471	136.096	4,664.06	-3,312.72	4,705.16	5,649.63	0.00	0.00	0.00
9,500.00	90.471	136.096	4,663.24	-3,384.77	4,774.51	5,749.63	0.00	0.00	0.00
9,600.00	90.471	136.096	4,662.42	-3,456.82	4,843.85	5,849.62	0.00	0.00	0.00
9,700.00	90.471	136.096	4,661.60	-3,528.87	4,913.19	5,949.62	0.00	0.00	0.00
9,800.00	90.471	136.096	4,660.78	-3,600.91	4,982.54	6,049.62	0.00	0.00	0.00
9,900.00	90.471	136.096	4,659.95	-3,672.96	5,051.88	6,149.61	0.00	0.00	0.00
10,000.00	90.471	136.096	4,659.13	-3,745.01	5,121.22	6,249.61	0.00	0.00	0.00



Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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)
10,100.00	90.471	136.096	4,658.31	-3,817.06	5,190.57	6,349.61	0.00	0.00	0.00
10,200.00	90.471	136.096	4,657.49	-3,889.10	5,259.91	6,449.60	0.00	0.00	0.00
10,300.00	90.471	136.096	4,656.67	-3,961.15	5,329.25	6,549.60	0.00	0.00	0.00
10,400.00	90.471	136.096	4,655.84	-4,033.20	5,398.60	6,649.60	0.00	0.00	0.00
10,500.00	90.471	136.096	4,655.02	-4,105.25	5,467.94	6,749.59	0.00	0.00	0.00
10,600.00	90.471	136.096	4,654.20	-4,177.29	5,537.28	6,849.59	0.00	0.00	0.00
10,700.00	90.471	136.096	4,653.38	-4,249.34	5,606.62	6,949.59	0.00	0.00	0.00
10,800.00	90.471	136.096	4,652.56	-4,321.39	5,675.97	7,049.58	0.00	0.00	0.00
10,900.00	90.471	136.096	4,651.73	-4,393.44	5,745.31	7,149.58	0.00	0.00	0.00
11,000.00	90.471	136.096	4,650.91	-4,465.48	5,814.65	7,249.58	0.00	0.00	0.00
11,100.00	90.471	136.096	4,650.09	-4,537.53	5,884.00	7,349.57	0.00	0.00	0.00
11,200.00	90.471	136.096	4,649.27	-4,609.58	5,953.34	7,449.57	0.00	0.00	0.00
11,300.00	90.471	136.096	4,648.45	-4,681.63	6,022.68	7,549.57	0.00	0.00	0.00
11,400.00	90.471	136.096	4,647.63	-4,753.67	6,092.03	7,649.56	0.00	0.00	0.00
11,500.00	90.471	136.096	4,646.80	-4,825.72	6,161.37	7,749.56	0.00	0.00	0.00
11,600.00	90.471	136.096	4,645.98	-4,897.77	6,230.71	7,849.56	0.00	0.00	0.00
11,700.00	90.471	136.096	4,645.16	-4,969.82	6,300.06	7,949.55	0.00	0.00	0.00
11,800.00	90.471	136.096	4,644.34	-5,041.86	6,369.40	8,049.55	0.00	0.00	0.00
11,900.00	90.471	136.096	4,643.52	-5,113.91	6,438.74	8,149.55	0.00	0.00	0.00
12,000.00	90.471	136.096	4,642.69	-5,185.96	6,508.09	8,249.54	0.00	0.00	0.00
12,084.44	90.471	136.096	4,642.00	-5,246.80	6,566.64	8,333.98	0.00	0.00	0.00
PBHL/TD 12084.44 MD 4642.00 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
Rodeo 511 LTP 234 FSL - plan hits target center - Point	0.000	0.000	4,642.00	-5,246.80	6,566.64	1,883,651.560	2,755,781.987	36.176747000	-107.722566000
Rodeo 511 FTP 234 FNI - plan hits target center - Point	0.000	0.000	4,697.00	-425.54	1,926.36	1,888,472.810	2,751,141.715	36.190005000	-107.738273000

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	13 3/8" Casing	13-5/8	17-1/2	
2,747.50	2,626.00	9 5/8" Casing	9-5/8	12-1/4	



Planning Report

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Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
371.00	371.00	Ojo Alamo				
456.00	456.00	Kirtland				
686.00	686.00	Fruitland				
1,036.00	1,036.00	Pictured Cliffs				
1,161.19	1,161.00	Lewis				
1,424.49	1,421.00	Chacra_A				
2,546.49	2,446.00	Cliff House_Basal		0.00		
2,579.99	2,476.00	Menefee				
3,682.22	3,463.00	Point Lookout				
3,830.75	3,596.00	Mancos				
4,230.55	3,954.00	MNCS_A				
4,341.10	4,053.00	MNCS_B				
4,438.26	4,140.00	MNCS_C				
4,482.93	4,180.00	MNCS_Cms				
4,623.65	4,306.00	MNCS_D				
4,804.66	4,456.00	MNCS_E				
4,886.80	4,514.00	MNCS_F				
4,996.92	4,579.00	MNCS_G				
5,091.39	4,626.00	MNCS_H				
5,248.19	4,681.00	MNCS_I				

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	
1,881.10	1,850.18	-12.47	199.28	Begin 26.43° tangent	
4,619.76	4,302.52	-88.64	1,416.01	Begin 10°/100' build/turn	
5,009.32	4,585.31	-194.28	1,650.26	Begin 60.00° tangent	
5,069.32	4,615.31	-223.89	1,692.96	Begin 10°/100' build/turn	
5,392.67	4,697.00	-425.54	1,926.36	Begin 90.47° lateral	
12,084.44	4,642.00	-5,246.80	6,566.64	PBHL/TD 12084.44 MD 4642.00 TVD	



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project	San Juan County, New Mexico NAD83 NM W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Rodeo Unit 511 pad (511, 512 & 513)				
Site Position:		Northing:	1,888,898.347 usft	Latitude:	36.191179000
From:	Lat/Long	Easting:	2,749,215.362 usft	Longitude:	-107.744800000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Rodeo Unit #511H, Surf loc: 191 FSL 1365 FWL Section 25-T23N-R09W						
Well Position	+N/-S	0.00 ft	Northing:	1,888,898.347	usft	Latitude:	36.191179000
	+E/-W	0.00 ft	Easting:	2,749,215.362	usft	Longitude:	-107.744800000
Position Uncertainty		0.00 ft	Wellhead Elevation:		ft	Ground Level:	6,798.00 ft
Grid Convergence:		0.05 °					

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/9/2022	8.72	62.71	49,212.59253693

Design	rev0			
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	136.096

Plan Survey Tool Program	Date	3/29/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,084.43 rev0 (Original Hole)	MWD	
			OWSG MWD - Standard	

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	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.000	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,881.10	26.433	93.582	1,850.18	-12.47	199.28	3.00	3.00	0.00	93.58	
4,619.76	26.433	93.582	4,302.52	-88.64	1,416.01	0.00	0.00	0.00	0.00	
5,009.32	60.000	124.740	4,585.31	-194.28	1,650.26	10.00	8.62	8.00	45.45	
5,069.32	60.000	124.740	4,615.31	-223.89	1,692.96	0.00	0.00	0.00	0.00	
5,392.67	90.471	136.096	4,697.00	-425.54	1,926.36	10.00	9.42	3.51	21.60	
12,084.44	90.471	136.096	4,642.00	-5,246.80	6,566.64	0.00	0.00	0.00	0.00	Rodeo 511 LTP 234 F



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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	0.000	0.000	0.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
100.00	0.000	0.000	100.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
200.00	0.000	0.000	200.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
300.00	0.000	0.000	300.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
371.00	0.000	0.000	371.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
Ojo Alamo									
400.00	0.000	0.000	400.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
456.00	0.000	0.000	456.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
Kirtland									
500.00	0.000	0.000	500.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
600.00	0.000	0.000	600.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
686.00	0.000	0.000	686.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
Fruitland									
700.00	0.000	0.000	700.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
800.00	0.000	0.000	800.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
900.00	0.000	0.000	900.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
1,000.00	0.000	0.000	1,000.00	0.00	0.00	1,888,898.347	2,749,215.362	36.191179000	-107.744800000
KOP Begin 3°/100' build									
1,036.00	1.080	93.582	1,036.00	-0.02	0.34	1,888,898.325	2,749,215.700	36.191178940	-107.744798853
Pictured Cliffs									
1,100.00	3.000	93.582	1,099.95	-0.16	2.61	1,888,898.183	2,749,217.974	36.191178544	-107.744791148
1,161.19	4.836	93.582	1,161.00	-0.42	6.78	1,888,897.922	2,749,222.147	36.191177816	-107.744777007
Lewis									
1,200.00	6.000	93.582	1,199.63	-0.65	10.44	1,888,897.693	2,749,225.804	36.191177178	-107.744764614
1,300.00	9.000	93.582	1,298.77	-1.47	23.47	1,888,896.878	2,749,238.829	36.191174905	-107.744720473
1,400.00	12.000	93.582	1,397.08	-2.61	41.65	1,888,895.739	2,749,257.015	36.191171733	-107.744658845
1,424.49	12.735	93.582	1,421.00	-2.93	46.89	1,888,895.412	2,749,262.249	36.191170819	-107.744641107
Chacra_A									
1,500.00	15.000	93.582	1,494.31	-4.07	64.95	1,888,894.281	2,749,280.311	36.191167668	-107.744579898
1,600.00	18.000	93.582	1,590.18	-5.84	93.29	1,888,892.507	2,749,308.654	36.191162723	-107.744483850
1,700.00	21.000	93.582	1,684.43	-7.92	126.60	1,888,890.422	2,749,341.966	36.191156911	-107.744370964
1,800.00	24.000	93.582	1,776.81	-10.32	164.79	1,888,888.031	2,749,380.155	36.191150248	-107.744241548
1,881.10	26.433	93.582	1,850.18	-12.47	199.28	1,888,885.873	2,749,414.637	36.191144232	-107.744124695
Begin 26.43° tangent									
1,900.00	26.433	93.582	1,867.10	-13.00	207.67	1,888,885.347	2,749,423.033	36.191142767	-107.744096241
2,000.00	26.433	93.582	1,956.65	-15.78	252.10	1,888,882.566	2,749,467.462	36.191135015	-107.743945683
2,100.00	26.433	93.582	2,046.19	-18.56	296.53	1,888,879.785	2,749,511.890	36.191127263	-107.743795125
2,200.00	26.433	93.582	2,135.74	-21.34	340.96	1,888,877.005	2,749,556.318	36.191119510	-107.743644566
2,300.00	26.433	93.582	2,225.28	-24.12	385.38	1,888,874.224	2,749,600.746	36.191111758	-107.743494008
2,400.00	26.433	93.582	2,314.83	-26.90	429.81	1,888,871.443	2,749,645.174	36.191104005	-107.743343450
2,500.00	26.433	93.582	2,404.37	-29.69	474.24	1,888,868.662	2,749,689.602	36.191096252	-107.743192892
2,546.49	26.433	93.582	2,446.00	-30.98	494.89	1,888,867.369	2,749,710.255	36.191092648	-107.743122903
Cliff House_Basal									
2,579.99	26.433	93.582	2,476.00	-31.91	509.78	1,888,866.437	2,749,725.140	36.191090050	-107.743072462
Menefee									
2,600.00	26.433	93.582	2,493.92	-32.47	518.67	1,888,865.881	2,749,734.030	36.191088499	-107.743042334
2,700.00	26.433	93.582	2,583.46	-35.25	563.10	1,888,863.100	2,749,778.458	36.191080746	-107.742891776
2,800.00	26.433	93.582	2,673.01	-38.03	607.53	1,888,860.319	2,749,822.886	36.191072992	-107.742741219
2,900.00	26.433	93.582	2,762.56	-40.81	651.95	1,888,857.538	2,749,867.315	36.191065238	-107.742590661
3,000.00	26.433	93.582	2,852.10	-43.59	696.38	1,888,854.757	2,749,911.743	36.191057485	-107.742440103
3,100.00	26.433	93.582	2,941.65	-46.37	740.81	1,888,851.976	2,749,956.171	36.191049731	-107.742289545
3,200.00	26.433	93.582	3,031.19	-49.15	785.24	1,888,849.195	2,750,000.599	36.191041976	-107.742138987
3,300.00	26.433	93.582	3,120.74	-51.93	829.67	1,888,846.414	2,750,045.027	36.191034222	-107.741988429



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,400.00	26.433	93.582	3,210.28	-54.71	874.10	1,888,843.633	2,750,089.455	36.191026467	-107.741837872	
3,500.00	26.433	93.582	3,299.83	-57.49	918.52	1,888,840.852	2,750,133.883	36.191018712	-107.741687314	
3,600.00	26.433	93.582	3,389.37	-60.28	962.95	1,888,838.071	2,750,178.311	36.191010957	-107.741536756	
3,682.22	26.433	93.582	3,463.00	-62.56	999.48	1,888,835.784	2,750,214.841	36.191004581	-107.741412965	
Point Lookout										
3,700.00	26.433	93.582	3,478.92	-63.06	1,007.38	1,888,835.290	2,750,222.739	36.191003202	-107.741386199	
3,800.00	26.433	93.582	3,568.47	-65.84	1,051.81	1,888,832.509	2,750,267.167	36.190995447	-107.741235641	
3,830.75	26.433	93.582	3,596.00	-66.69	1,065.47	1,888,831.654	2,750,280.829	36.190993062	-107.741189345	
Mancos										
3,900.00	26.433	93.582	3,658.01	-68.62	1,096.24	1,888,829.728	2,750,311.596	36.190987691	-107.741085084	
4,000.00	26.433	93.582	3,747.56	-71.40	1,140.66	1,888,826.947	2,750,356.024	36.190979936	-107.740934526	
4,100.00	26.433	93.582	3,837.10	-74.18	1,185.09	1,888,824.166	2,750,400.452	36.190972180	-107.740783968	
4,200.00	26.433	93.582	3,926.65	-76.96	1,229.52	1,888,821.385	2,750,444.880	36.190964423	-107.740633411	
4,230.55	26.433	93.582	3,954.00	-77.81	1,243.09	1,888,820.535	2,750,458.451	36.190962054	-107.740587421	
MNCS_A										
4,300.00	26.433	93.582	4,016.19	-79.74	1,273.95	1,888,818.604	2,750,489.308	36.190956667	-107.740482853	
4,341.10	26.433	93.582	4,053.00	-80.89	1,292.21	1,888,817.461	2,750,507.570	36.190953479	-107.740420967	
MNCS_B										
4,400.00	26.433	93.582	4,105.74	-82.52	1,318.38	1,888,815.823	2,750,533.736	36.190948911	-107.740332296	
4,438.26	26.433	93.582	4,140.00	-83.59	1,335.38	1,888,814.759	2,750,550.735	36.190945943	-107.740274690	
MNCS_C										
4,482.93	26.433	93.582	4,180.00	-84.83	1,355.22	1,888,813.517	2,750,570.581	36.190942478	-107.740207436	
MNCS_Cms										
4,500.00	26.433	93.582	4,195.28	-85.30	1,362.81	1,888,813.042	2,750,578.164	36.190941154	-107.740181739	
4,600.00	26.433	93.582	4,284.83	-88.09	1,407.23	1,888,810.261	2,750,622.592	36.190933397	-107.740031181	
4,619.76	26.433	93.582	4,302.52	-88.64	1,416.01	1,888,809.712	2,750,631.371	36.190931864	-107.740001432	
Begin 10°/100' build/turn										
4,623.65	26.707	94.198	4,306.00	-88.75	1,417.75	1,888,809.594	2,750,633.106	36.190931535	-107.739995553	
MNCS_D										
4,650.00	28.630	98.082	4,329.34	-90.07	1,429.91	1,888,808.272	2,750,645.265	36.190927873	-107.739954351	
4,700.00	32.531	104.243	4,372.39	-95.07	1,454.81	1,888,803.277	2,750,670.171	36.190914086	-107.739869961	
4,750.00	36.674	109.181	4,413.54	-103.29	1,481.96	1,888,795.059	2,750,697.321	36.190891436	-107.739777975	
4,800.00	40.984	113.229	4,452.49	-114.67	1,511.15	1,888,783.679	2,750,726.509	36.190860097	-107.739679094	
4,804.66	41.393	113.570	4,456.00	-115.89	1,513.97	1,888,782.459	2,750,729.327	36.190856740	-107.739669549	
MNCS_E										
4,850.00	45.413	116.623	4,488.94	-129.12	1,542.15	1,888,769.224	2,750,757.513	36.190820307	-107.739574071	
4,886.80	48.729	118.803	4,514.00	-141.66	1,566.00	1,888,756.684	2,750,781.356	36.190785795	-107.739493310	
MNCS_F										
4,900.00	49.928	119.531	4,522.60	-146.54	1,574.74	1,888,751.805	2,750,790.096	36.190772368	-107.739463704	
4,950.00	54.507	122.075	4,553.23	-166.79	1,608.65	1,888,731.554	2,750,824.011	36.190716646	-107.739348834	
4,996.92	58.847	124.209	4,579.00	-188.23	1,641.46	1,888,710.113	2,750,856.815	36.190657658	-107.739237730	
MNCS_G										
5,000.00	59.133	124.342	4,580.59	-189.72	1,643.64	1,888,708.625	2,750,858.999	36.190653564	-107.739230335	
5,009.32	60.000	124.740	4,585.31	-194.28	1,650.26	1,888,704.068	2,750,865.619	36.190641028	-107.739207914	
Begin 60.00° tangent										
5,069.32	60.000	124.740	4,615.31	-223.89	1,692.96	1,888,674.457	2,750,908.318	36.190559571	-107.739063305	
Begin 10°/100' build/turn										
5,091.39	62.055	125.659	4,626.00	-235.02	1,708.74	1,888,663.327	2,750,924.094	36.190528953	-107.739009880	
MNCS_H										
5,100.00	62.858	126.009	4,629.98	-239.49	1,714.92	1,888,658.858	2,750,930.282	36.190516661	-107.738988924	
5,150.00	67.540	127.945	4,650.95	-266.79	1,751.16	1,888,631.556	2,750,966.520	36.190441560	-107.738866201	
5,200.00	72.242	129.754	4,668.14	-296.24	1,787.71	1,888,602.105	2,751,003.067	36.190360559	-107.738742442	



Planning Report - Geographic

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Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,248.19	76.790	131.409	4,681.00	-326.45	1,822.97	1,888,571.895	2,751,038.326	36.190277473	-107.738623052
MNCS_I									
5,250.00	76.961	131.470	4,681.41	-327.62	1,824.29	1,888,570.731	2,751,039.644	36.190274272	-107.738618588
5,300.00	81.690	133.122	4,690.67	-360.68	1,860.62	1,888,537.672	2,751,075.973	36.190183358	-107.737786284
5,350.00	86.426	134.734	4,695.84	-395.17	1,896.42	1,888,503.179	2,751,111.777	36.190088508	-107.738374358
5,392.67	90.471	136.096	4,697.00	-425.54	1,926.36	1,888,472.805	2,751,141.714	36.190004986	-107.738273003
Begin 90.47° lateral									
5,400.00	90.471	136.096	4,696.94	-430.82	1,931.44	1,888,467.526	2,751,146.794	36.189990471	-107.738255803
5,500.00	90.471	136.096	4,696.12	-502.87	2,000.78	1,888,395.479	2,751,216.137	36.189792363	-107.738021043
5,600.00	90.471	136.096	4,695.30	-574.92	2,070.12	1,888,323.432	2,751,285.481	36.189594254	-107.737786284
5,700.00	90.471	136.096	4,694.47	-646.96	2,139.47	1,888,251.384	2,751,354.824	36.189396144	-107.737551526
5,800.00	90.471	136.096	4,693.65	-719.01	2,208.81	1,888,179.337	2,751,424.167	36.189198034	-107.737316769
5,900.00	90.471	136.096	4,692.83	-791.06	2,278.15	1,888,107.289	2,751,493.510	36.188999925	-107.737082014
6,000.00	90.471	136.096	4,692.01	-863.11	2,347.50	1,888,035.242	2,751,562.853	36.188801814	-107.736847259
6,100.00	90.471	136.096	4,691.19	-935.15	2,416.84	1,887,963.195	2,751,632.196	36.188603702	-107.736612506
6,200.00	90.471	136.096	4,690.36	-1,007.20	2,486.18	1,887,891.147	2,751,701.539	36.188405591	-107.736377754
6,300.00	90.471	136.096	4,689.54	-1,079.25	2,555.53	1,887,819.100	2,751,770.882	36.188207478	-107.736143004
6,400.00	90.471	136.096	4,688.72	-1,151.30	2,624.87	1,887,747.052	2,751,840.225	36.188009366	-107.735908254
6,500.00	90.471	136.096	4,687.90	-1,223.34	2,694.21	1,887,675.005	2,751,909.568	36.187811252	-107.735673506
6,600.00	90.471	136.096	4,687.08	-1,295.39	2,763.55	1,887,602.958	2,751,978.911	36.187613139	-107.735438758
6,700.00	90.471	136.096	4,686.25	-1,367.44	2,832.90	1,887,530.910	2,752,048.254	36.187415024	-107.735204012
6,800.00	90.471	136.096	4,685.43	-1,439.49	2,902.24	1,887,458.863	2,752,117.597	36.187216910	-107.734969267
6,900.00	90.471	136.096	4,684.61	-1,511.53	2,971.58	1,887,386.815	2,752,186.940	36.187018795	-107.734734524
7,000.00	90.471	136.096	4,683.79	-1,583.58	3,040.93	1,887,314.768	2,752,256.283	36.186820679	-107.734499781
7,100.00	90.471	136.096	4,682.97	-1,655.63	3,110.27	1,887,242.721	2,752,325.626	36.186622563	-107.734265040
7,200.00	90.471	136.096	4,682.14	-1,727.68	3,179.61	1,887,170.673	2,752,394.969	36.186424447	-107.734030300
7,300.00	90.471	136.096	4,681.32	-1,799.72	3,248.96	1,887,098.626	2,752,464.312	36.186226330	-107.733795561
7,400.00	90.471	136.096	4,680.50	-1,871.77	3,318.30	1,887,026.578	2,752,533.655	36.186028212	-107.733560823
7,500.00	90.471	136.096	4,679.68	-1,943.82	3,387.64	1,886,954.531	2,752,602.998	36.185830094	-107.733326087
7,600.00	90.471	136.096	4,678.86	-2,015.87	3,456.99	1,886,882.484	2,752,672.341	36.185631976	-107.733091351
7,700.00	90.471	136.096	4,678.04	-2,087.91	3,526.33	1,886,810.436	2,752,741.684	36.185433857	-107.732856617
7,800.00	90.471	136.096	4,677.21	-2,159.96	3,595.67	1,886,738.389	2,752,811.027	36.185235738	-107.732621884
7,900.00	90.471	136.096	4,676.39	-2,232.01	3,665.02	1,886,666.341	2,752,880.370	36.185037618	-107.732387152
8,000.00	90.471	136.096	4,675.57	-2,304.06	3,734.36	1,886,594.294	2,752,949.713	36.184839498	-107.732152422
8,100.00	90.471	136.096	4,674.75	-2,376.10	3,803.70	1,886,522.247	2,753,019.056	36.184641377	-107.731917692
8,200.00	90.471	136.096	4,673.93	-2,448.15	3,873.05	1,886,450.199	2,753,088.399	36.184443256	-107.731682964
8,300.00	90.471	136.096	4,673.10	-2,520.20	3,942.39	1,886,378.152	2,753,157.742	36.184245134	-107.731448237
8,400.00	90.471	136.096	4,672.28	-2,592.25	4,011.73	1,886,306.104	2,753,227.085	36.184047012	-107.731213511
8,500.00	90.471	136.096	4,671.46	-2,664.30	4,081.08	1,886,234.057	2,753,296.428	36.183848890	-107.730978786
8,600.00	90.471	136.096	4,670.64	-2,736.34	4,150.42	1,886,162.010	2,753,365.771	36.183650767	-107.730744062
8,700.00	90.471	136.096	4,669.82	-2,808.39	4,219.76	1,886,089.962	2,753,435.114	36.183452643	-107.730509340
8,800.00	90.471	136.096	4,668.99	-2,880.44	4,289.10	1,886,017.915	2,753,504.457	36.183254519	-107.730274619
8,900.00	90.471	136.096	4,668.17	-2,952.49	4,358.45	1,885,945.867	2,753,573.801	36.183056395	-107.730039899
9,000.00	90.471	136.096	4,667.35	-3,024.53	4,427.79	1,885,873.820	2,753,643.144	36.182858270	-107.729805180
9,100.00	90.471	136.096	4,666.53	-3,096.58	4,497.13	1,885,801.773	2,753,712.487	36.182660145	-107.729570462
9,200.00	90.471	136.096	4,665.71	-3,168.63	4,566.48	1,885,729.725	2,753,781.830	36.182462019	-107.729335746
9,300.00	90.471	136.096	4,664.89	-3,240.68	4,635.82	1,885,657.678	2,753,851.173	36.182263893	-107.729101030
9,400.00	90.471	136.096	4,664.06	-3,312.72	4,705.16	1,885,585.630	2,753,920.516	36.182065766	-107.728866316
9,500.00	90.471	136.096	4,663.24	-3,384.77	4,774.51	1,885,513.583	2,753,989.859	36.181867639	-107.728631603
9,600.00	90.471	136.096	4,662.42	-3,456.82	4,843.85	1,885,441.536	2,754,059.202	36.181669511	-107.728396892
9,700.00	90.471	136.096	4,661.60	-3,528.87	4,913.19	1,885,369.488	2,754,128.545	36.181471383	-107.728162181
9,800.00	90.471	136.096	4,660.78	-3,600.91	4,982.54	1,885,297.441	2,754,197.888	36.181273254	-107.727927472
9,900.00	90.471	136.096	4,659.95	-3,672.96	5,051.88	1,885,225.393	2,754,267.231	36.181075125	-107.727692764
10,000.00	90.471	136.096	4,659.13	-3,745.01	5,121.22	1,885,153.346	2,754,336.574	36.180876996	-107.727458057



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #511H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,100.00	90.471	136.096	4,658.31	-3,817.06	5,190.57	1,885,081.299	2,754,405.917	36.180678866	-107.727223351
10,200.00	90.471	136.096	4,657.49	-3,889.10	5,259.91	1,885,009.251	2,754,475.260	36.180480735	-107.726988646
10,300.00	90.471	136.096	4,656.67	-3,961.15	5,329.25	1,884,937.204	2,754,544.603	36.180282605	-107.726753943
10,400.00	90.471	136.096	4,655.84	-4,033.20	5,398.60	1,884,865.156	2,754,613.946	36.180084473	-107.726519240
10,500.00	90.471	136.096	4,655.02	-4,105.25	5,467.94	1,884,793.109	2,754,683.289	36.179886341	-107.726284539
10,600.00	90.471	136.096	4,654.20	-4,177.29	5,537.28	1,884,721.062	2,754,752.632	36.179688209	-107.726049839
10,700.00	90.471	136.096	4,653.38	-4,249.34	5,606.62	1,884,649.014	2,754,821.975	36.179490076	-107.725815140
10,800.00	90.471	136.096	4,652.56	-4,321.39	5,675.97	1,884,576.967	2,754,891.318	36.179291943	-107.725580443
10,900.00	90.471	136.096	4,651.73	-4,393.44	5,745.31	1,884,504.919	2,754,960.661	36.179093809	-107.725345747
11,000.00	90.471	136.096	4,650.91	-4,465.48	5,814.65	1,884,432.872	2,755,030.004	36.178895675	-107.725111051
11,100.00	90.471	136.096	4,650.09	-4,537.53	5,884.00	1,884,360.825	2,755,099.347	36.178697541	-107.724876357
11,200.00	90.471	136.096	4,649.27	-4,609.58	5,953.34	1,884,288.776	2,755,168.690	36.178499405	-107.724641664
11,300.00	90.471	136.096	4,648.45	-4,681.63	6,022.68	1,884,216.729	2,755,238.033	36.178301270	-107.724406973
11,400.00	90.471	136.096	4,647.63	-4,753.67	6,092.03	1,884,144.681	2,755,307.376	36.178103134	-107.724172282
11,500.00	90.471	136.096	4,646.80	-4,825.72	6,161.37	1,884,072.634	2,755,376.719	36.177904997	-107.723937593
11,600.00	90.471	136.096	4,645.98	-4,897.77	6,230.71	1,884,000.587	2,755,446.062	36.177706860	-107.723702905
11,700.00	90.471	136.096	4,645.16	-4,969.82	6,300.06	1,883,928.539	2,755,515.405	36.177508723	-107.723468218
11,800.00	90.471	136.096	4,644.34	-5,041.86	6,369.40	1,883,856.492	2,755,584.748	36.177310585	-107.723233532
11,900.00	90.471	136.096	4,643.52	-5,113.91	6,438.74	1,883,784.444	2,755,654.091	36.177112447	-107.722998848
12,000.00	90.471	136.096	4,642.69	-5,185.96	6,508.09	1,883,712.397	2,755,723.434	36.176914308	-107.722764164
12,084.44	90.471	136.096	4,642.00	-5,246.80	6,566.64	1,883,651.560	2,755,781.987	36.176747000	-107.722566000
PBHL/TD 12084.44 MD 4642.00 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	
Rodeo 511 LTP 234 FSL - plan hits target center - Point	0.000	0.000	4,642.00	-5,246.80	6,566.64	1,883,651.560	2,755,781.987	36.176747000	-107.722566000	
Rodeo 511 FTP 234 FNI - plan hits target center - Point	0.000	0.000	4,697.00	-425.54	1,926.36	1,888,472.810	2,751,141.715	36.190005000	-107.738273000	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	13 3/8" Casing	13-5/8	17-1/2	
2,747.50	2,626.00	9 5/8" Casing	9-5/8	12-1/4	



Planning Report - Geographic

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Company:	Enduring Resources LLC	TVD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6798+28 @ 6826.00ft (Ensign 773)
Site:	Rodeo Unit 511 pad (511, 512 & 513)	North Reference:	Grid
Well:	Rodeo Unit #511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
371.00	371.00	Ojo Alamo				
456.00	456.00	Kirtland				
686.00	686.00	Fruitland				
1,036.00	1,036.00	Pictured Cliffs				
1,161.19	1,161.00	Lewis				
1,424.49	1,421.00	Chacra_A				
2,546.49	2,446.00	Cliff House_Basal		0.00		
2,579.99	2,476.00	Menefee				
3,682.22	3,463.00	Point Lookout				
3,830.75	3,596.00	Mancos				
4,230.55	3,954.00	MNCS_A				
4,341.10	4,053.00	MNCS_B				
4,438.26	4,140.00	MNCS_C				
4,482.93	4,180.00	MNCS_Cms				
4,623.65	4,306.00	MNCS_D				
4,804.66	4,456.00	MNCS_E				
4,886.80	4,514.00	MNCS_F				
4,996.92	4,579.00	MNCS_G				
5,091.39	4,626.00	MNCS_H				
5,248.19	4,681.00	MNCS_I				

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	
1,881.10	1,850.18	-12.47	199.28	Begin 26.43° tangent	
4,619.76	4,302.52	-88.64	1,416.01	Begin 10°/100' build/turn	
5,009.32	4,585.31	-194.28	1,650.26	Begin 60.00° tangent	
5,069.32	4,615.31	-223.89	1,692.96	Begin 10°/100' build/turn	
5,392.67	4,697.00	-425.54	1,926.36	Begin 90.47° lateral	
12,084.44	4,642.00	-5,246.80	6,566.64	PBHL/TD 12084.44 MD 4642.00 TVD	



ENDURING RESOURCES IV, LLC
6300 S SYRACUSE WAY, SUITE 525
CENTENNIAL, COLORADO 80211

DRILLING PLAN: *Drill, complete, and equip single lateral in the Mancos-I formation*

WELL INFORMATION:

Name: RODEO UNIT 511H

API Number: 30-045-35875

AFE Number: not yet assigned

ER Well Number: not yet assigned

State: New Mexico

County: San Juan

Surface Elevation: 6,798 ft ASL (GL) 6,826 ft ASL (KB)

Surface Location: 25-23N-09W Sec-Twn-Rng 191 ft FSL 1,365 ft FWL

36.191179 ° N latitude 107.744800 ° W longitude (NAD 83)

BH Location (LTP): 31-23N-08W Sec-Twn-Rng 234 ft FSL 2,646 ft FWL

36.176747 ° N latitude 107.722566 ° W longitude (NAD 83)

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

South on US Hwy 550 for 37.8 miles to MM 113.4; Right (Southwest) on CR #7890 for 0.8 miles to fork; Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection; Left (Southeast) remaining on CR #7890 for 0.6 miles to fork; Right (Southwest) on CR #7890 for 1.5 miles to access road; Left on access road for 0.5 mile to Rodeo Unit 511H Pad (three wells planned to be drilled: 511H, 512H, 513H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	6,455	371	371	W	normal
	Kirtland	6,370	456	456	W	normal
	Fruitland	6,140	686	686	G, W	sub
	Pictured Cliffs	5,790	1,036	1,036	G, W	sub
	Lewis	5,665	1,161	1,161	G, W	normal
	Chacra	5,405	1,421	1,424	G, W	normal
	Cliff House	4,380	2,446	2,546	G, W	sub
	Menefee	4,350	2,476	2,580	G, W	normal
	Point Lookout	3,363	3,463	3,682	G, W	normal
	Mancos	3,230	3,596	3,831	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,872	3,954	4,231	O,G	sub (~0.38)
	MNCS_B	2,773	4,053	4,341	O,G	sub (~0.38)
	MNCS_C	2,686	4,140	4,438	O,G	sub (~0.38)
	MNCS_Cms	2,646	4,180	4,483	O,G	sub (~0.38)
	MNCS_D	2,520	4,306	4,623	O,G	sub (~0.38)
	MNCS_E	2,370	4,456	4,804	O,G	sub (~0.38)
	MNCS_F	2,312	4,514	4,887	O,G	sub (~0.38)
	MNCS_G	2,247	4,579	4,997	O,G	sub (~0.38)
	MNCS_H	2,200	4,626	5,091	O,G	sub (~0.38)
	MNCS_I	2,145	4,681	5,248	O,G	sub (~0.38)
	FTP (LP) TARGET	2,129	4,697	5,393	O,G	sub (~0.38)
	LTP (TD) TARGET	2,184	4,642	12,084	O,G	sub (~0.38)

Surface: Nacimiento

Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup

Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations

Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,020 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 990 psi

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

H₂S Zones: Encountering hydrogen-sulfide bearing zones is **NOT** anticipated.

Safety: Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; gas detection from drill out of 13-3/8" casing to TD; remote geo-steering from drill out of 9-5/8" casing to TD.

MWD / LWD: MWD surveys with inclination and azimuth in 100' stations (minimum) from drill out of 13-3/8" casing to TD; Gamma Ray from drill out of 9-5/8" casing to TD; Gamma Ray optional in 12-1/4" intermediate hole

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

Cased Hole Logs: CBL on 5-1/2" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Ensign

Rig No.: 773

Draw Works: Pacific Rim 1500AC

Mast: ADR 1500S Cantilever Triple (142 ft, 800,000 lbs, 12 lines)

Top Drive: Tesco 500-ESI-1350 (500 ton, 1,350 hp)

Prime Movers: 3 - CAT 3512 (1,475 hp)

Pumps: 3 - Gardner-Denver PZ11 (7,500 psi)

BOPE 1: Cameron single gate ram & double gate ram (13-5/8", 10,000 psi)

BOPE 2: Cameron annular (13-5/8", 5,000 psi)

Choke 3", 10,000 psi

KB-GL (ft): 28

Note: Actual drilling rig may vary depending on availability at time the well is scheduled to be drilled.

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 3) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 4) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 5) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 6) Manual locking devices (hand wheels) shall be installed on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement: Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and the in the geologist's work-station (if geologist or mud-logger is on-site).

Closed-Loop System: A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimize the amount of fluids and solids that require disposal.

Fluid Disposal: Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Solids Disposal: Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Fluid Program: See "Detailed Drilling Plan" section for specifics and fluid program from Newpark. Sufficient weighting agent will be on location to weight up mud system to balance the maximum expected pressure gradient.

DETAILED DRILLING PLAN:

SURFACE: *Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.*

0 ft (MD)	to	350 ft (MD)	Hole Section Length:	350 ft
0 ft (TVD)	to	350 ft (TVD)	Casing Required:	350 ft

Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud mud

Hole Size: 17-1/2"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	571	116,634	116,634
Min. S.F.					7.39	4.78	7.31	7.79

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minimum: N/A Optimum: N/A Maximum: N/A

Make-up as per API Buttress Connection running procedure.

Casing Details: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
	TYPE III	14.6	1.39	6.686	0.6946	100%	0	350

Calculated cement volumes assume gauge hole and the excess noted in table

Drake Endergy Services Surface Blend

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

INTERMEDIATE: *Drill as per directional plan to casing setting depth, run casing, cement casing to surface.*

350 ft (MD)	to	2,748 ft (MD)	Hole Section Length:	2,398 ft
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350 ft (TVD)	to	2,626 ft (TVD)	Casing Required:	2,748 ft
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***TARGET CSG SHOE DEPTH IS 150' TVD BELOW MENEFFEE TOP**

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCI)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	No OBM

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

MWD / Survey: MWD surveys with inclination and azimuth in 100' stations (minimum), GR optional

Logging: None

Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to **1,500** psi for 30 minutes.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,147	1,140	186,270	186,270
Min. S.F.					1.76	3.09	3.03	2.43

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minumum: 3,900 Optimum: 5,200 Maximum: 6,500

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1 centralizer per jt (floating) to KOP ; 1 centralizer per 2 jts (floating) to surface

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	559
Tail	Type III	14.6	1.380	6.64	20%	2,248	136

Annular Capacity 0.3627 cuft/ft 9-5/8" casing x 13-3/8" casing annulus

0.3132 cuft/ft 9-5/8" casing x 12-1/4" hole annulus

Calculated cement volumes assume gauge hole and the excess noted in table

Drake Intermediate Cementing Program

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

PRODUCTION: Drill to TD following directional plan, run casing, cement casing to surface.

2,748 ft (MD)	to	12,084 ft (MD)	Hole Section Length:	9,336 ft
2,626 ft (TVD)	to	4,642 ft (TVD)	Casing Required:	12,084 ft

Estimated KOP:	4,620 ft (MD)	4,303 ft (TVD)
Estimated Landing Point (FTP):	5,393 ft (MD)	4,697 ft (TVD)
Estimated Lateral Length:	6,691 ft (MD)	

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	ES	OWR
	OBM	8.7 - 9.0	10 - 15	10 - 20	6 - 10	500+	80:20

Hole Size: 8-1/2"

Bit / Motor: PDC w/mud motor

MWD / Survey: MWD surveys with inclination and azimuth in 100' stations (minimum) before KOP, every joint from KOP to POE, every 100' (minimum) from POE to TD; Gamma Ray from drill out of 9-5/8" shoe to TD

Logging: MWD Gamma Ray for entire section, no mud-log or cuttings sampling, no OH WL logs

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to **1,500** psi for 30 minutes.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	Size (in)	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,293	8,934	377,266	377,266

Min. S.F.		3.25	1.19	1.45	1.18
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Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)

Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 9.0 ppg fluid with 200,000 lbs over-pull

MU Torque (ft lbs): Minimum: 3,400 Optimum: 4,530 Maximum: 5,660

Casing Summary: Float shoe, 1 jt casing, float collar, 1 jt casing, float collar, 20' marker joint, toe-initiation sleeve, casing to KOP with 20' marker joints spaced evenly in lateral every ~2,000', floatation sub at KOP (+/-), casing to surface. The toe-initiation sleeve shall be placed no closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the the azimuth of the well. **Note: the LTP is the maximum depth of the toe sleeve and is noted on the Well Plan. Drill past the LTP as required for necessary rat-hole and shoe-track length to place the toe sleeve as close to (but not past) the planned LTP as possible.**

Centralizers: Centralizer count and placement may be adjusted based on well conditions and as-drilled surveys (**ARSENAL**)

Lateral: 1 centralizer per joint

POE to 9-5/8" shoe: 1 centralizer per joint

9-5/8" shoe to surface: 1 centralizer per 2 joints

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
Lead	Type I / II	12.4	2.360	13.40	65%	0	614
Tail	G:POZ blend	13.3	1.560	7.70	10%	3,831	1,333

Annular Capacity 0.2691 cuft/ft 5-1/2" casing x 9-5/8" casing annulus

0.2291 cuft/ft 5-1/2" casing x 8-1/2" hole annulus

Calculated cement volumes assume gauge hole and the excess noted in table

American Cementing Liner & Production Blend

Notify NMOCD & BLM if cement is not circulated to surface.

Note: This well will not be considered an unorthodox well location as defined by NMAC 19.15.16.15.C.5. As defined in NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. **Neither the toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.**

FINISH WELL: ND BOP. RDMO Drilling Rig.

COMPLETION AND PRODUCTION PLAN:

Frac: 30 plug-and-perf stages with 270,000 bbls slickwater fluid and 11,000,000 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

ESTIMATED START DATES:

Drilling: 7/1/2022

Completion: 8/15/2022

Production: 9/29/2022

Prepared by: Alec Bridge 4/17/2019

Updated by: Alec Bridge 3/31/2022 - updated drilling prog & directional plans for new development plan & current program

WELL NAME: **RODEO UNIT 511H**
OBJECTIVE: **Drill, complete, and equip single lateral in the Mancos-I formation**
API Number: 30-045-35875
State: New Mexico
County: San Juan

Surface Elev.: 6,798 ft ASL (GL) 6,826 ft ASL (KB)
Surface Location: 25-23N-09W Sec-Twn- Rng 191 ft FSL 1,365 ft FWL
BH Location: 31-23N-08W Sec-Twn- Rng 234 ft FSL 2646 ft FWL

Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**
South on US Hwy 550 for 37.8 miles to MM 113.4; Right (Southwest) on CR #7890 for 0.8 miles to fork; Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection; Left (Southeast) remaining on CR #7890 for 0.6 miles to fork; Right (Southwest) on CR #7890 for 1.5 miles to access road; Left on access road for 0.5 mile to Rodeo Unit 511H Pad (three wells planned to be drilled: 511H, 512H, 513H).

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,748 ft
KOP (MD)	4,620 ft
KOP (TVD)	4,303 ft
Target (TVD)	4,697 ft
Curve BUR	10 °/100 ft
POE (MD)	5,393 ft
TD (MD)	12,084 ft
Lat Len (ft)	6,691 ft

WELL CONSTRUCTION SUMMARY:

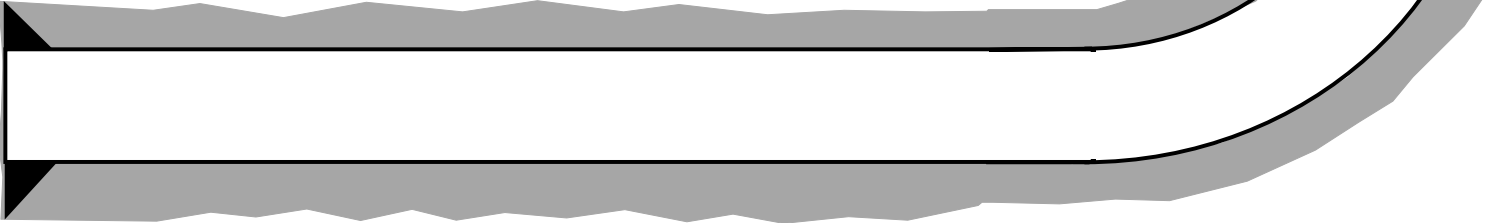
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,748	9.625	36.0	J-55	LTC	0	2,748
Production	8.500	12,084	5.500	17.0	P-110	LTC	0	12,084

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	559
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,248	136
Prod. (Lead)	Type I / II	12.4	2.360	13.40	0.2691	65%	0	614
Prod. (Tail)	G:POZ blend	13.3	1.560	7.70	0.2291	10%	3,831	1,333

COMPLETION / PRODUCTION SUMMARY:

Frac: 30 plug-and-perf stages with 270,000 bbls slickwater fluid and 11,000,000 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



	Tops	TVD (ft KB)	MD (ft KB)
	Ojo Alamo	371	371
	Kirtland	456	456
	Fruitland	686	686
	Pictured Cliffs	1,036	1,036
	Lewis	1,161	1,161
	Chacra	1,421	1,424
	Cliff House	2,446	2,546
	Menefee	2,476	2,580
	Point Lookout	3,463	3,682
	Mancos	3,596	3,831
	Gallup (MNCS_A)	3,954	4,231
	MNCS_B	4,053	4,341
	MNCS_C	4,140	4,438
	MNCS_Cms	4,180	4,483
	MNCS_D	4,306	4,623
	MNCS_E	4,456	4,804
	MNCS_F	4,514	4,887
	MNCS_G	4,579	4,997
	MNCS_H	4,626	5,091
	MNCS_I	4,681	5,248
	FTP (LP) TARGET	4,697	5,393
	LTP (TD) TARGET	4,642	12,084

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

CONDITIONS

Action 96533

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 96533
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	• NSL Will require an administrative order for non-standard location prior to placing the well on production.	4/11/2022
kpickford	Adhere to previous NMOCD Conditions of Approval	4/11/2022