

Well Name: RODEO UNIT	Well Location: T23N / R8W / SEC 31 / NWNW / 36.190011 / -107.728479	County or Parish/State: SAN JUAN / NM
Well Number: 495H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: N0G14021893	Unit or CA Name:	Unit or CA Number: NMNM136328A
US Well Number: 3004538170	Well Status: Approved Application for Permit to Drill	Operator: ENDURING RESOURCES LLC

Notice of Intent

Sundry ID: 2663318

Type of Submission: Notice of Intent

Date Sundry Submitted: 03/22/2022

Date proposed operation will begin: 06/01/2022

Type of Action: Drilling Operations

Time Sundry Submitted: 01:29

Procedure Description: Enduring Resources requests to change the BHL of the S CHACO UNIT 344H well per the attached updated C-102 Plat, Directional Plan, Wellbore Diagram, and Drill Prog.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Rodeo_Unit_495H_Drill_Prog_03222022_20220322132833.pdf
- Rodeo_Unit_495H_Directional_Plan_03222022_20220322132833.pdf
- Rodeo_Unit_495H_C_102_Plat___Signed_03222022_20220322132833.pdf
- RODU_495H_WBD_03222022_20220322132833.pdf

Well Name: RODEO UNIT	Well Location: T23N / R8W / SEC 31 / NWNW / 36.190011 / -107.728479	County or Parish/State: SAIN JUAN / NM
Well Number: 495H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: NOG14021893	Unit or CA Name:	Unit or CA Number: NMNM136328A
US Well Number: 3004538170	Well Status: Approved Application for Permit to Drill	Operator: ENDURING RESOURCES LLC

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: KHEM SUTHIWAN	Signed on: MAR 22, 2022 01:29 PM
Name: ENDURING RESOURCES LLC	
Title: Regulatory Manager	
Street Address: 6300 S WAY SUITE 525	
City: DENVER	State: CO
Phone: (303) 350-5721	
Email address: KSUTHIWAN@ENDURINGRESOURCES.COM	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742	BLM POC Email Address: krennick@blm.gov
Disposition: Approved	Disposition Date: 03/24/2022
Signature: Kenneth Rennick	

District I
1625 S. First St., 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 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 321253	⁵ Property Name RODEO UNIT	⁶ Well Number 495H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6680'

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
D	31	23N	8W	1	225	NORTH	895	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
P	31	23N	8W		233	SOUTH	950	EAST	SAN JUAN

¹² Dedicated Acres 961.48	Entire Section 31, T23N R8W N/2 - Section 36, T23N R9W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14313
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

FIRST TAKE POINT
234' FNL 478' FEL
SEC 36, T23N, R9W
LAT: 36.189983°N
LONG: 107.732519°W
DATUM: NAD1927

LAT: 36.189997°N
LONG: 107.733132°W
DATUM: NAD1983

SURFACE LOCATION
225' FNL 895' FWL
SEC 31, T23N, R8W
LAT 36.189997°N
LONG 107.72866°W
DATUM NAD1927

LAT 36.190011°N
LONG 107.728479°W
DATUM NAD1983

LAST TAKE POINT
233' FSL 950' FEL
SEC 31, T23N, R8W
LAT: 36.176729°N
LONG: 107.716207°W
DATUM: NAD1927

LAT: 36.176743°N
LONG: 107.716819°W
DATUM: NAD1983

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
ksuthiwan@enduringresources.com
E-mail Address

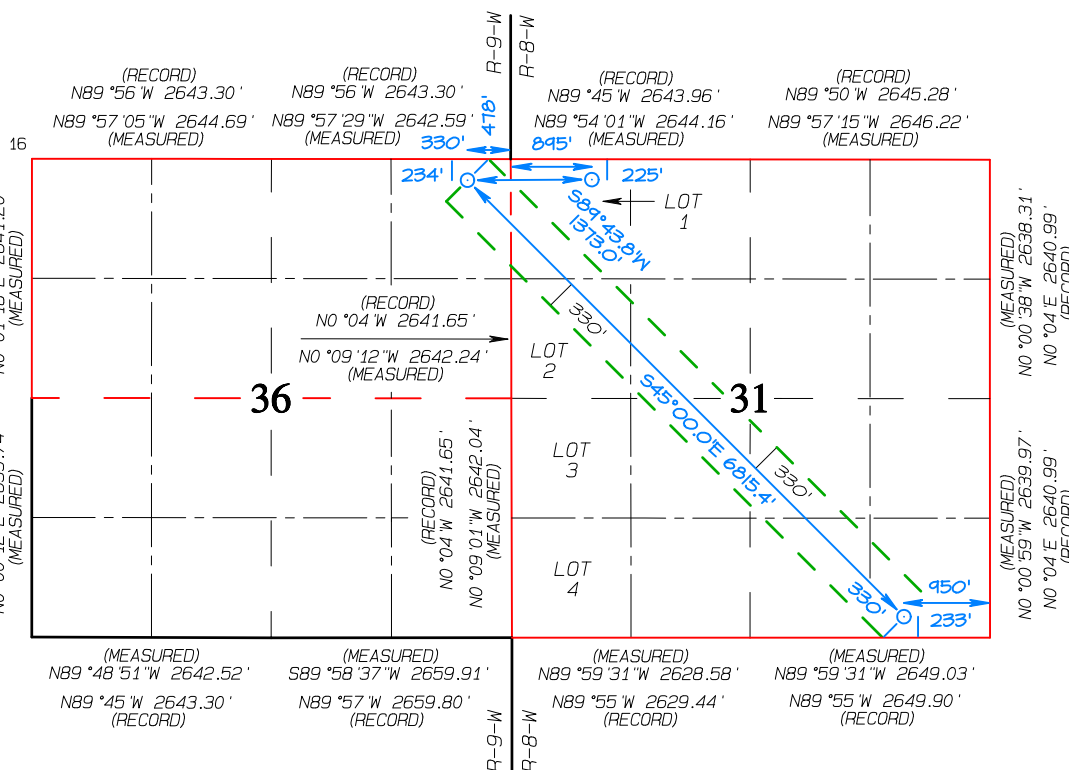
¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

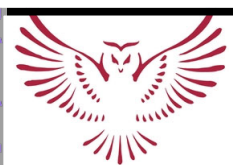
Date Revised: MARCH 1, 2022
Date of Survey: APRIL 12, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269





Well: Rodeo Unit #495H
Site: Rodeo Unit 492 pad (494 & 495)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig:

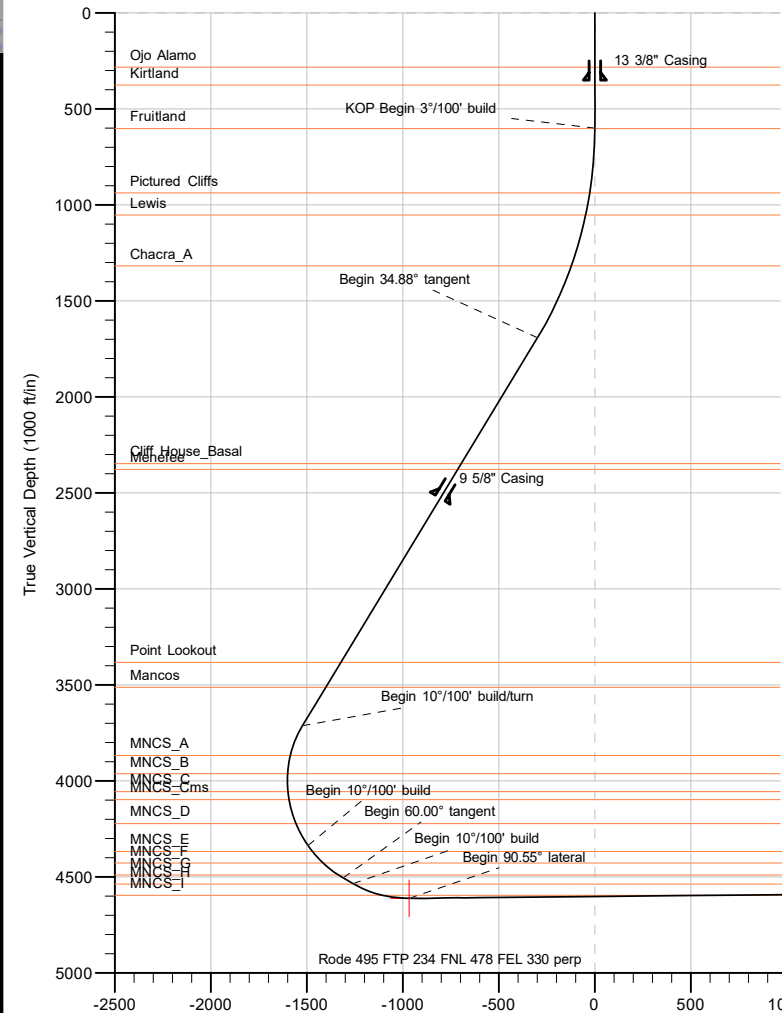
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rode 495 LTP 233 FSL 950 FEL 330 perp	4546.00	-4825.89	3446.40	1883652.091	2757478.079	36.176743000	-107.718819000
Rode 495 FTP 234 FNL 478 FEL 330 perp	4612.00	-6.55	-1372.99	1888471.424	2752658.705	36.189997000	-107.733132000

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=6680+28 @ 6708.00ft
Surface location:
Northing 1888477.971 Easting 2754031.690 Latitude 36.190011000 Longitude -107.728479000



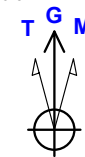
Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.65°



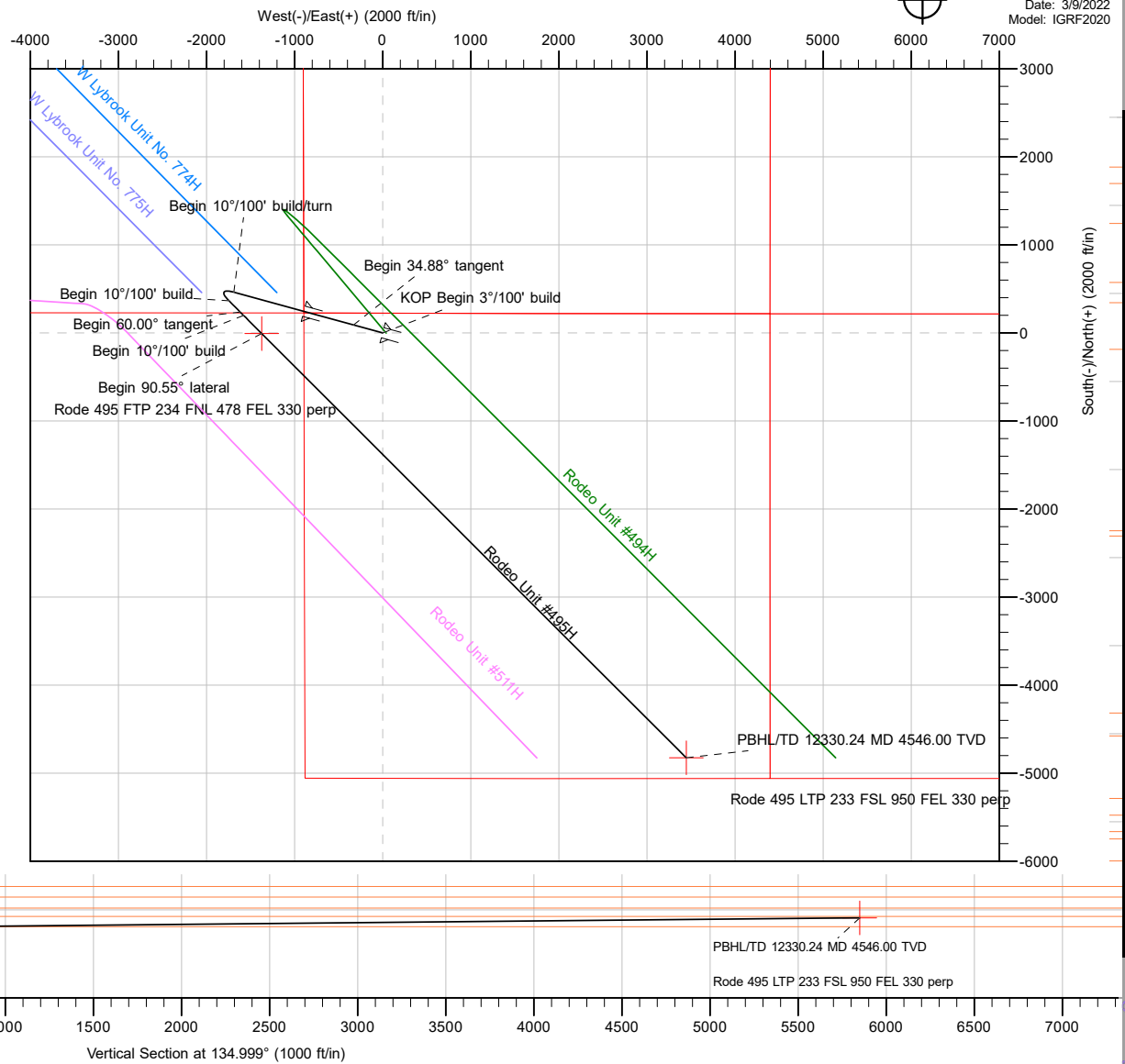
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1762.81	34.88	285.320	1692.29	90.67	-330.99	3.00	285.32	-298.16	Begin 34.88° tangent
4	4226.41	34.88	285.320	3713.20	462.93	-1689.91	0.00	0.00	-1522.30	Begin 10°/100' build/turn
5	4898.76	35.00	135.000	4337.71	365.99	-1745.53	10.00	-162.06	-1493.09	Begin 10°/100' build
6	5148.76	60.00	135.000	4505.27	236.69	-1616.23	10.00	0.00	-1310.23	Begin 60.00° tangent
7	5208.76	60.00	135.000	4535.27	199.95	-1579.49	0.00	0.00	-1258.27	Begin 10°/100' build
8	5514.31	90.55	135.000	4612.00	-6.55	-1372.99	10.00	0.00	-966.24	Begin 90.55° lateral
9	12330.24	90.55	135.000	4546.00	-4825.89	3446.40	0.00	0.00	5849.37	PBHL/TD

CASING DETAILS

TVD	MD	Name
350.00	350.00	13 3/8" Casing
2528.00	2781.59	9 5/8" Casing



Azimuths to Grid North
True North: -0.06°
Magnetic North: 8.65°
Magnetic Field
Strength: 49214.9nT
Dip Angle: 62.71°
Date: 3/9/2022
Model: IGRF2020



Vertical Section at 134.999° (1000 ft/in)



Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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 492 pad (494 & 495)		
Site Position:		Northing:	1,888,477.650 usft
From:	Lat/Long	Easting:	2,754,071.821 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.190010000
		Longitude:	-107.728343000

Well	Rodeo Unit #495H, Surf loc: 225 FNL 895 FWL Section 31-T23N-R08W		
Well Position	+N/-S	0.00 ft	Northing: 1,888,477.971 usft
	+E/-W	0.00 ft	Easting: 2,754,031.690 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.06 °	Ground Level:	6,680.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/9/2022	8.72	62.71	49,214.89349830

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	134.999

Plan Survey Tool Program	Date	3/22/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,330.16 rev0 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report

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Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,762.81	34.88	285.320	1,692.29	90.67	-330.99	3.00	3.00	0.00	285.32	
4,226.41	34.88	285.320	3,713.20	462.93	-1,689.91	0.00	0.00	0.00	0.00	
4,898.76	35.00	135.000	4,337.71	365.99	-1,745.53	10.00	0.02	-22.36	-162.06	
5,148.76	60.00	135.000	4,505.27	236.69	-1,616.23	10.00	10.00	0.00	0.00	
5,208.76	60.00	135.000	4,535.27	199.95	-1,579.49	0.00	0.00	0.00	0.00	
5,514.31	90.55	135.000	4,612.01	-6.55	-1,372.99	10.00	10.00	0.00	0.00	
12,330.24	90.55	135.000	4,546.00	-4,825.89	3,446.40	0.00	0.00	0.00	0.00	Rode 495 LTP 233 F5



Planning Report

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Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
283.00	0.00	0.000	283.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo									
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
376.00	0.00	0.000	376.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
603.00	0.09	285.320	603.00	0.00	0.00	0.00	3.00	3.00	0.00
Fruitland									
700.00	3.00	285.320	699.95	0.69	-2.52	-2.27	3.00	3.00	0.00
800.00	6.00	285.320	799.63	2.76	-10.09	-9.09	3.00	3.00	0.00
900.00	9.00	285.320	898.77	6.21	-22.68	-20.43	3.00	3.00	0.00
939.79	10.19	285.320	938.00	7.96	-29.08	-26.19	3.00	3.00	0.00
Pictured Cliffs									
1,000.00	12.00	285.320	997.08	11.03	-40.25	-36.26	3.00	3.00	0.00
1,057.36	13.72	285.320	1,053.00	14.40	-52.56	-47.35	3.00	3.00	0.00
Lewis									
1,100.00	15.00	285.320	1,094.31	17.19	-62.76	-56.54	3.00	3.00	0.00
1,200.00	18.00	285.320	1,190.18	24.70	-90.15	-81.21	3.00	3.00	0.00
1,300.00	21.00	285.320	1,284.43	33.51	-122.34	-110.21	3.00	3.00	0.00
1,336.09	22.08	285.320	1,318.00	37.02	-135.12	-121.72	3.00	3.00	0.00
Chacra_A									
1,400.00	24.00	285.320	1,376.81	43.62	-159.25	-143.45	3.00	3.00	0.00
1,500.00	27.00	285.320	1,467.06	55.00	-200.77	-180.85	3.00	3.00	0.00
1,600.00	30.00	285.320	1,554.93	67.60	-246.78	-222.30	3.00	3.00	0.00
1,700.00	33.00	285.320	1,640.18	81.41	-297.17	-267.69	3.00	3.00	0.00
1,762.81	34.88	285.320	1,692.29	90.67	-330.99	-298.16	3.00	3.00	0.00
Begin 34.88° tangent									
1,800.00	34.88	285.320	1,722.80	96.29	-351.50	-316.64	0.00	0.00	0.00
1,900.00	34.88	285.320	1,804.83	111.40	-406.66	-366.33	0.00	0.00	0.00
2,000.00	34.88	285.320	1,886.86	126.51	-461.82	-416.02	0.00	0.00	0.00
2,100.00	34.88	285.320	1,968.89	141.62	-516.98	-465.71	0.00	0.00	0.00
2,200.00	34.88	285.320	2,050.92	156.73	-572.14	-515.40	0.00	0.00	0.00
2,300.00	34.88	285.320	2,132.95	171.84	-627.30	-565.09	0.00	0.00	0.00
2,400.00	34.88	285.320	2,214.98	186.95	-682.46	-614.78	0.00	0.00	0.00
2,500.00	34.88	285.320	2,297.01	202.06	-737.62	-664.47	0.00	0.00	0.00
2,562.16	34.88	285.320	2,348.00	211.45	-771.91	-695.35	0.00	0.00	0.00
Cliff House_Basal									
2,598.73	34.88	285.320	2,378.00	216.98	-792.08	-713.52	0.00	0.00	0.00
Menefee									
2,600.00	34.88	285.320	2,379.04	217.17	-792.78	-714.15	0.00	0.00	0.00
2,700.00	34.88	285.320	2,461.07	232.28	-847.94	-763.84	0.00	0.00	0.00
2,800.00	34.88	285.320	2,543.10	247.39	-903.10	-813.53	0.00	0.00	0.00
2,900.00	34.88	285.320	2,625.14	262.50	-958.26	-863.22	0.00	0.00	0.00
3,000.00	34.88	285.320	2,707.17	277.61	-1,013.42	-912.91	0.00	0.00	0.00
3,100.00	34.88	285.320	2,789.20	292.72	-1,068.58	-962.60	0.00	0.00	0.00
3,200.00	34.88	285.320	2,871.23	307.83	-1,123.74	-1,012.29	0.00	0.00	0.00
3,300.00	34.88	285.320	2,953.26	322.94	-1,178.90	-1,061.98	0.00	0.00	0.00



Planning Report

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Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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	34.88	285.320	3,035.29	338.06	-1,234.06	-1,111.67	0.00	0.00	0.00
3,500.00	34.88	285.320	3,117.32	353.17	-1,289.22	-1,161.36	0.00	0.00	0.00
3,600.00	34.88	285.320	3,199.35	368.28	-1,344.38	-1,211.04	0.00	0.00	0.00
3,700.00	34.88	285.320	3,281.38	383.39	-1,399.54	-1,260.73	0.00	0.00	0.00
3,800.00	34.88	285.320	3,363.41	398.50	-1,454.70	-1,310.42	0.00	0.00	0.00
3,823.88	34.88	285.320	3,383.00	402.10	-1,467.87	-1,322.29	0.00	0.00	0.00
Point Lookout									
3,900.00	34.88	285.320	3,445.44	413.61	-1,509.86	-1,360.11	0.00	0.00	0.00
3,982.35	34.88	285.320	3,513.00	426.05	-1,555.29	-1,401.03	0.00	0.00	0.00
Mancos									
4,000.00	34.88	285.320	3,527.48	428.72	-1,565.02	-1,409.80	0.00	0.00	0.00
4,100.00	34.88	285.320	3,609.51	443.83	-1,620.18	-1,459.49	0.00	0.00	0.00
4,200.00	34.88	285.320	3,691.54	458.94	-1,675.34	-1,509.18	0.00	0.00	0.00
4,226.41	34.88	285.320	3,713.20	462.93	-1,689.91	-1,522.30	0.00	0.00	0.00
Begin 10°/100' build/turn									
4,250.00	32.65	283.973	3,732.81	466.25	-1,702.59	-1,533.62	10.00	-9.48	-5.71
4,300.00	27.96	280.493	3,775.97	471.64	-1,727.22	-1,554.85	10.00	-9.37	-6.96
4,350.00	23.40	275.764	3,821.02	474.78	-1,748.64	-1,572.21	10.00	-9.13	-9.46
4,400.00	19.04	268.959	3,867.63	475.63	-1,766.69	-1,585.57	10.00	-8.72	-13.61
4,400.39	19.01	268.894	3,868.00	475.62	-1,766.81	-1,585.66	10.00	-8.41	-16.58
MNCS_A									
4,450.00	15.07	258.528	3,915.43	474.18	-1,781.22	-1,594.83	10.00	-7.94	-20.89
4,498.91	11.93	242.297	3,963.00	470.57	-1,791.93	-1,599.84	10.00	-6.42	-33.19
MNCS_B									
4,500.00	11.87	241.844	3,964.07	470.46	-1,792.13	-1,599.91	10.00	-5.20	-41.43
4,550.00	10.22	216.960	4,013.17	464.49	-1,799.33	-1,600.78	10.00	-3.31	-49.77
4,593.53	10.62	192.816	4,056.00	457.49	-1,802.55	-1,598.10	10.00	0.93	-55.47
MNCS_C									
4,600.00	10.83	189.521	4,062.36	456.31	-1,802.78	-1,597.43	10.00	3.21	-50.91
4,636.39	12.56	173.637	4,098.00	449.00	-1,802.91	-1,592.36	10.00	4.76	-43.65
MNCS_Cms									
4,650.00	13.40	168.875	4,111.26	445.98	-1,802.44	-1,589.89	10.00	6.19	-34.99
4,700.00	17.07	155.835	4,159.51	433.60	-1,798.31	-1,578.21	10.00	7.34	-26.08
4,750.00	21.28	147.549	4,206.74	419.23	-1,790.43	-1,562.49	10.00	8.41	-16.57
4,767.55	22.83	145.353	4,223.00	413.75	-1,786.79	-1,556.03	10.00	8.83	-12.51
MNCS_D									
4,800.00	25.76	141.962	4,252.58	403.01	-1,778.86	-1,542.84	10.00	9.03	-10.45
4,850.00	30.39	137.958	4,296.69	385.05	-1,763.69	-1,519.41	10.00	9.27	-8.01
4,898.76	35.00	135.000	4,337.71	365.99	-1,745.53	-1,493.09	10.00	9.45	-6.07
Begin 10°/100' build									
4,900.00	35.12	135.000	4,338.73	365.49	-1,745.03	-1,492.38	10.00	10.00	0.00
4,936.64	38.79	135.000	4,368.00	349.91	-1,729.45	-1,470.35	10.00	10.00	0.00
MNCS_E									
4,950.00	40.12	135.000	4,378.32	343.91	-1,723.45	-1,461.86	10.00	10.00	0.00
5,000.00	45.12	135.000	4,415.09	319.98	-1,699.52	-1,428.01	10.00	10.00	0.00
5,018.60	46.98	135.000	4,428.00	310.51	-1,690.05	-1,414.62	10.00	10.00	0.00
MNCS_F									
5,050.00	50.12	135.000	4,448.78	293.87	-1,673.41	-1,391.09	10.00	10.00	0.00
5,100.00	55.12	135.000	4,479.13	265.78	-1,645.32	-1,351.37	10.00	10.00	0.00
5,119.50	57.07	135.000	4,490.00	254.34	-1,633.88	-1,335.18	10.00	10.00	0.00
MNCS_G									
5,148.76	60.00	135.000	4,505.27	236.69	-1,616.23	-1,310.23	10.00	10.00	0.00



Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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)
Begin 60.00° tangent									
5,208.76	60.00	135.000	4,535.27	199.95	-1,579.49	-1,258.27	0.00	0.00	0.00
Begin 10°/100' build									
5,214.26	60.55	135.000	4,538.00	196.57	-1,576.11	-1,253.49	10.00	10.00	0.00
MNCS_H									
5,250.00	64.12	135.000	4,554.59	174.19	-1,553.73	-1,221.84	10.00	10.00	0.00
5,300.00	69.12	135.000	4,574.42	141.75	-1,521.29	-1,175.96	10.00	10.00	0.00
5,350.00	74.12	135.000	4,590.18	108.20	-1,487.74	-1,128.52	10.00	10.00	0.00
5,372.90	76.41	135.000	4,596.00	92.55	-1,472.08	-1,106.38	10.00	10.00	0.00
MNCS_I									
5,400.00	79.12	135.000	4,601.74	73.82	-1,453.36	-1,079.89	10.00	10.00	0.00
5,450.00	84.12	135.000	4,609.02	38.85	-1,418.39	-1,030.44	10.00	10.00	0.00
5,500.00	89.12	135.000	4,611.96	3.57	-1,383.11	-980.55	10.00	10.00	0.00
5,514.31	90.55	135.000	4,612.01	-6.55	-1,372.99	-966.24	10.00	10.00	0.00
Begin 90.55° lateral									
5,600.00	90.55	135.000	4,611.18	-67.14	-1,312.40	-880.55	0.00	0.00	0.00
5,700.00	90.55	135.000	4,610.21	-137.85	-1,241.69	-780.55	0.00	0.00	0.00
5,800.00	90.55	135.000	4,609.24	-208.55	-1,170.98	-680.56	0.00	0.00	0.00
5,900.00	90.55	135.000	4,608.27	-279.26	-1,100.28	-580.56	0.00	0.00	0.00
6,000.00	90.55	135.000	4,607.30	-349.97	-1,029.57	-480.57	0.00	0.00	0.00
6,100.00	90.55	135.000	4,606.33	-420.67	-958.86	-380.57	0.00	0.00	0.00
6,200.00	90.55	135.000	4,605.36	-491.38	-888.15	-280.58	0.00	0.00	0.00
6,300.00	90.55	135.000	4,604.40	-562.09	-817.45	-180.58	0.00	0.00	0.00
6,400.00	90.55	135.000	4,603.43	-632.79	-746.74	-80.59	0.00	0.00	0.00
6,500.00	90.55	135.000	4,602.46	-703.50	-676.03	19.41	0.00	0.00	0.00
6,600.00	90.55	135.000	4,601.49	-774.21	-605.32	119.40	0.00	0.00	0.00
6,700.00	90.55	135.000	4,600.52	-844.92	-534.62	219.40	0.00	0.00	0.00
6,800.00	90.55	135.000	4,599.55	-915.62	-463.91	319.39	0.00	0.00	0.00
6,900.00	90.55	135.000	4,598.59	-986.33	-393.20	419.39	0.00	0.00	0.00
7,000.00	90.55	135.000	4,597.62	-1,057.04	-322.49	519.38	0.00	0.00	0.00
7,100.00	90.55	135.000	4,596.65	-1,127.74	-251.78	619.38	0.00	0.00	0.00
7,200.00	90.55	135.000	4,595.68	-1,198.45	-181.08	719.37	0.00	0.00	0.00
7,300.00	90.55	135.000	4,594.71	-1,269.16	-110.37	819.37	0.00	0.00	0.00
7,400.00	90.55	135.000	4,593.74	-1,339.86	-39.66	919.37	0.00	0.00	0.00
7,500.00	90.55	135.000	4,592.78	-1,410.57	31.05	1,019.36	0.00	0.00	0.00
7,600.00	90.55	135.000	4,591.81	-1,481.28	101.75	1,119.36	0.00	0.00	0.00
7,700.00	90.55	135.000	4,590.84	-1,551.99	172.46	1,219.35	0.00	0.00	0.00
7,800.00	90.55	135.000	4,589.87	-1,622.69	243.17	1,319.35	0.00	0.00	0.00
7,900.00	90.55	135.000	4,588.90	-1,693.40	313.88	1,419.34	0.00	0.00	0.00
8,000.00	90.55	135.000	4,587.93	-1,764.11	384.58	1,519.34	0.00	0.00	0.00
8,100.00	90.55	135.000	4,586.97	-1,834.81	455.29	1,619.33	0.00	0.00	0.00
8,200.00	90.55	135.000	4,586.00	-1,905.52	526.00	1,719.33	0.00	0.00	0.00
8,300.00	90.55	135.000	4,585.03	-1,976.23	596.71	1,819.32	0.00	0.00	0.00
8,400.00	90.55	135.000	4,584.06	-2,046.94	667.42	1,919.32	0.00	0.00	0.00
8,500.00	90.55	135.000	4,583.09	-2,117.64	738.12	2,019.31	0.00	0.00	0.00
8,600.00	90.55	135.000	4,582.12	-2,188.35	808.83	2,119.31	0.00	0.00	0.00
8,700.00	90.55	135.000	4,581.16	-2,259.06	879.54	2,219.30	0.00	0.00	0.00
8,800.00	90.55	135.000	4,580.19	-2,329.76	950.25	2,319.30	0.00	0.00	0.00
8,900.00	90.55	135.000	4,579.22	-2,400.47	1,020.95	2,419.30	0.00	0.00	0.00
9,000.00	90.55	135.000	4,578.25	-2,471.18	1,091.66	2,519.29	0.00	0.00	0.00
9,100.00	90.55	135.000	4,577.28	-2,541.88	1,162.37	2,619.29	0.00	0.00	0.00
9,200.00	90.55	135.000	4,576.31	-2,612.59	1,233.08	2,719.28	0.00	0.00	0.00
9,300.00	90.55	135.000	4,575.34	-2,683.30	1,303.78	2,819.28	0.00	0.00	0.00



Planning Report

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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)	
9,400.00	90.55	135.000	4,574.38	-2,754.01	1,374.49	2,919.27	0.00	0.00	0.00	
9,500.00	90.55	135.000	4,573.41	-2,824.71	1,445.20	3,019.27	0.00	0.00	0.00	
9,600.00	90.55	135.000	4,572.44	-2,895.42	1,515.91	3,119.26	0.00	0.00	0.00	
9,700.00	90.55	135.000	4,571.47	-2,966.13	1,586.62	3,219.26	0.00	0.00	0.00	
9,800.00	90.55	135.000	4,570.50	-3,036.83	1,657.32	3,319.25	0.00	0.00	0.00	
9,900.00	90.55	135.000	4,569.53	-3,107.54	1,728.03	3,419.25	0.00	0.00	0.00	
10,000.00	90.55	135.000	4,568.57	-3,178.25	1,798.74	3,519.24	0.00	0.00	0.00	
10,100.00	90.55	135.000	4,567.60	-3,248.95	1,869.45	3,619.24	0.00	0.00	0.00	
10,200.00	90.55	135.000	4,566.63	-3,319.66	1,940.15	3,719.23	0.00	0.00	0.00	
10,300.00	90.55	135.000	4,565.66	-3,390.37	2,010.86	3,819.23	0.00	0.00	0.00	
10,400.00	90.55	135.000	4,564.69	-3,461.08	2,081.57	3,919.22	0.00	0.00	0.00	
10,500.00	90.55	135.000	4,563.72	-3,531.78	2,152.28	4,019.22	0.00	0.00	0.00	
10,600.00	90.55	135.000	4,562.76	-3,602.49	2,222.98	4,119.22	0.00	0.00	0.00	
10,700.00	90.55	135.000	4,561.79	-3,673.20	2,293.69	4,219.21	0.00	0.00	0.00	
10,800.00	90.55	135.000	4,560.82	-3,743.90	2,364.40	4,319.21	0.00	0.00	0.00	
10,900.00	90.55	135.000	4,559.85	-3,814.61	2,435.11	4,419.20	0.00	0.00	0.00	
11,000.00	90.55	135.000	4,558.88	-3,885.32	2,505.82	4,519.20	0.00	0.00	0.00	
11,100.00	90.55	135.000	4,557.91	-3,956.03	2,576.52	4,619.19	0.00	0.00	0.00	
11,200.00	90.55	135.000	4,556.95	-4,026.73	2,647.23	4,719.19	0.00	0.00	0.00	
11,300.00	90.55	135.000	4,555.98	-4,097.44	2,717.94	4,819.18	0.00	0.00	0.00	
11,400.00	90.55	135.000	4,555.01	-4,168.15	2,788.65	4,919.18	0.00	0.00	0.00	
11,500.00	90.55	135.000	4,554.04	-4,238.85	2,859.35	5,019.17	0.00	0.00	0.00	
11,600.00	90.55	135.000	4,553.07	-4,309.56	2,930.06	5,119.17	0.00	0.00	0.00	
11,700.00	90.55	135.000	4,552.10	-4,380.27	3,000.77	5,219.16	0.00	0.00	0.00	
11,800.00	90.55	135.000	4,551.13	-4,450.97	3,071.48	5,319.16	0.00	0.00	0.00	
11,900.00	90.55	135.000	4,550.17	-4,521.68	3,142.18	5,419.15	0.00	0.00	0.00	
12,000.00	90.55	135.000	4,549.20	-4,592.39	3,212.89	5,519.15	0.00	0.00	0.00	
12,100.00	90.55	135.000	4,548.23	-4,663.10	3,283.60	5,619.15	0.00	0.00	0.00	
12,200.00	90.55	135.000	4,547.26	-4,733.80	3,354.31	5,719.14	0.00	0.00	0.00	
12,300.00	90.55	135.000	4,546.29	-4,804.51	3,425.02	5,819.14	0.00	0.00	0.00	
12,330.24	90.55	135.000	4,546.00	-4,825.89	3,446.40	5,849.37	0.00	0.00	0.00	
PBHL/TD 12330.24 MD 4546.00 TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude		Longitude
Rode 495 LTP 233 FSL ! - hit/miss target - Shape - Point	0.00	0.000	4,546.00	-4,825.89	3,446.40	1,883,652.090	2,757,478.079	36.176743000		-107.716819000
Rode 495 FTP 234 FNL - plan misses target center by 0.01ft at 5514.31ft MD (4612.00 TVD, -6.55 N, -1372.99 E) - Point	0.00	0.000	4,612.00	-6.55	-1,372.99	1,888,471.424	2,752,658.705	36.189997000		-107.733132000



Planning Report

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Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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	
2,781.59	2,528.00	9 5/8" Casing	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
283.00	283.00	Ojo Alamo				
376.00	376.00	Kirtland				
603.00	603.00	Fruitland				
939.79	938.00	Pictured Cliffs				
1,057.36	1,053.00	Lewis				
1,336.09	1,318.00	Chacra_A				
2,562.16	2,348.00	Cliff House_Basal				
2,598.73	2,378.00	Menefee				
3,823.88	3,383.00	Point Lookout				
3,982.35	3,513.00	Mancos				
4,400.39	3,868.00	MNCS_A				
4,498.91	3,963.00	MNCS_B				
4,593.53	4,056.00	MNCS_C				
4,636.39	4,098.00	MNCS_Cms				
4,767.55	4,223.00	MNCS_D				
4,936.64	4,368.00	MNCS_E				
5,018.60	4,428.00	MNCS_F				
5,119.50	4,490.00	MNCS_G				
5,214.26	4,538.00	MNCS_H				
5,372.90	4,596.00	MNCS_I				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
600.00	600.00	0.00	0.00	KOP Begin 3°/100' build	
1,762.81	1,692.29	90.67	-330.99	Begin 34.88° tangent	
4,226.41	3,713.20	462.93	-1,689.91	Begin 10°/100' build/turn	
4,898.76	4,337.71	365.99	-1,745.53	Begin 10°/100' build	
5,148.76	4,505.27	236.69	-1,616.23	Begin 60.00° tangent	
5,208.76	4,535.27	199.95	-1,579.49	Begin 10°/100' build	
5,514.31	4,612.01	-6.55	-1,372.99	Begin 90.55° lateral	
12,330.24	4,546.00	-4,825.89	3,446.40	PBHL/TD 12330.24 MD 4546.00 TVD	



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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 492 pad (494 & 495)		
Site Position:		Northing:	1,888,477.650 usft
From:	Lat/Long	Easting:	2,754,071.821 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.190010000
		Longitude:	-107.728343000

Well	Rodeo Unit #495H, Surf loc: 225 FNL 895 FWL Section 31-T23N-R08W		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.06 °	Ground Level:	6,680.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/9/2022	8.72	62.71	49,214.89349830

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	134.999

Plan Survey Tool Program	Date	3/22/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,330.16 rev0 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,762.81	34.88	285.320	1,692.29	90.67	-330.99	3.00	3.00	0.00	285.32	
4,226.41	34.88	285.320	3,713.20	462.93	-1,689.91	0.00	0.00	0.00	0.00	
4,898.76	35.00	135.000	4,337.71	365.99	-1,745.53	10.00	0.02	-22.36	-162.06	
5,148.76	60.00	135.000	4,505.27	236.69	-1,616.23	10.00	10.00	0.00	0.00	
5,208.76	60.00	135.000	4,535.27	199.95	-1,579.49	0.00	0.00	0.00	0.00	
5,514.31	90.55	135.000	4,612.01	-6.55	-1,372.99	10.00	10.00	0.00	0.00	
12,330.24	90.55	135.000	4,546.00	-4,825.89	3,446.40	0.00	0.00	0.00	0.00	Rode 495 LTP 233 F5



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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	0.00	0.000	0.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
100.00	0.00	0.000	100.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
200.00	0.00	0.000	200.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
283.00	0.00	0.000	283.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
Ojo Alamo									
300.00	0.00	0.000	300.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
376.00	0.00	0.000	376.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
Kirtland									
400.00	0.00	0.000	400.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
500.00	0.00	0.000	500.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
600.00	0.00	0.000	600.00	0.00	0.00	1,888,477.971	2,754,031.690	36.190011000	-107.728479000
KOP Begin 3°/100' build									
603.00	0.09	285.320	603.00	0.00	0.00	1,888,477.972	2,754,031.688	36.190011001	-107.728479007
Fruitland									
700.00	3.00	285.320	699.95	0.69	-2.52	1,888,478.663	2,754,029.166	36.190012907	-107.728487552
800.00	6.00	285.320	799.63	2.76	-10.09	1,888,480.735	2,754,021.600	36.190018623	-107.728513186
900.00	9.00	285.320	898.77	6.21	-22.68	1,888,484.183	2,754,009.012	36.190028133	-107.728555832
939.79	10.19	285.320	938.00	7.96	-29.08	1,888,485.936	2,754,002.615	36.190032966	-107.728577507
Pictured Cliffs									
1,000.00	12.00	285.320	997.08	11.03	-40.25	1,888,488.998	2,753,991.438	36.190041410	-107.728615371
1,057.36	13.72	285.320	1,053.00	14.40	-52.56	1,888,492.370	2,753,979.126	36.190050712	-107.728657086
Lewis									
1,100.00	15.00	285.320	1,094.31	17.19	-62.76	1,888,495.165	2,753,968.926	36.190058418	-107.728691642
1,200.00	18.00	285.320	1,190.18	24.70	-90.15	1,888,502.667	2,753,941.537	36.190079110	-107.728784435
1,300.00	21.00	285.320	1,284.43	33.51	-122.34	1,888,511.486	2,753,909.346	36.190103430	-107.728893496
1,336.09	22.08	285.320	1,318.00	37.02	-135.12	1,888,514.986	2,753,896.566	36.190113085	-107.728936794
Chacra_A									
1,400.00	24.00	285.320	1,376.81	43.62	-159.25	1,888,521.595	2,753,872.442	36.190131311	-107.729018526
1,500.00	27.00	285.320	1,467.06	55.00	-200.77	1,888,532.968	2,753,830.925	36.190162676	-107.729159183
1,600.00	30.00	285.320	1,554.93	67.60	-246.78	1,888,545.573	2,753,784.910	36.190197439	-107.729315080
1,700.00	33.00	285.320	1,640.18	81.41	-297.17	1,888,559.376	2,753,734.523	36.190235506	-107.729485791
1,762.81	34.88	285.320	1,692.29	90.67	-330.99	1,888,568.641	2,753,700.700	36.190261057	-107.729600380
Begin 34.88° tangent									
1,800.00	34.88	285.320	1,722.80	96.29	-351.50	1,888,574.261	2,753,680.186	36.190276555	-107.729669881
1,900.00	34.88	285.320	1,804.83	111.40	-406.66	1,888,589.371	2,753,625.026	36.190318226	-107.729856761
2,000.00	34.88	285.320	1,886.86	126.51	-461.82	1,888,604.481	2,753,569.866	36.190359897	-107.730043641
2,100.00	34.88	285.320	1,968.89	141.62	-516.98	1,888,619.592	2,753,514.707	36.190401568	-107.730230521
2,200.00	34.88	285.320	2,050.92	156.73	-572.14	1,888,634.702	2,753,459.547	36.190443238	-107.730417401
2,300.00	34.88	285.320	2,132.95	171.84	-627.30	1,888,649.812	2,753,404.387	36.190484908	-107.730604282
2,400.00	34.88	285.320	2,214.98	186.95	-682.46	1,888,664.923	2,753,349.227	36.190526578	-107.730791163
2,500.00	34.88	285.320	2,297.01	202.06	-737.62	1,888,680.033	2,753,294.067	36.190568248	-107.730978044
2,562.16	34.88	285.320	2,348.00	211.45	-771.91	1,888,689.425	2,753,259.782	36.190594148	-107.731094203
Cliff House_Basal									
2,598.73	34.88	285.320	2,378.00	216.98	-792.08	1,888,694.951	2,753,239.609	36.190609387	-107.731162549
Menefee									
2,600.00	34.88	285.320	2,379.04	217.17	-792.78	1,888,695.143	2,753,238.908	36.190609917	-107.731164925
2,700.00	34.88	285.320	2,461.07	232.28	-847.94	1,888,710.253	2,753,183.748	36.190651586	-107.731351806
2,800.00	34.88	285.320	2,543.10	247.39	-903.10	1,888,725.364	2,753,128.588	36.190693254	-107.731538688
2,900.00	34.88	285.320	2,625.14	262.50	-958.26	1,888,740.474	2,753,073.428	36.190734923	-107.731725570
3,000.00	34.88	285.320	2,707.17	277.61	-1,013.42	1,888,755.584	2,753,018.269	36.190776591	-107.731912452
3,100.00	34.88	285.320	2,789.20	292.72	-1,068.58	1,888,770.695	2,752,963.109	36.190818258	-107.732099334
3,200.00	34.88	285.320	2,871.23	307.83	-1,123.74	1,888,785.805	2,752,907.949	36.190859926	-107.732286216
3,300.00	34.88	285.320	2,953.26	322.94	-1,178.90	1,888,800.915	2,752,852.789	36.190901593	-107.732473099



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured			Vertical			Map		Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting			
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude	
3,400.00	34.88	285.320	3,035.29	338.06	-1,234.06	1,888,816.025	2,752,797.629	36.190943260	-107.732659982	
3,500.00	34.88	285.320	3,117.32	353.17	-1,289.22	1,888,831.136	2,752,742.470	36.190984927	-107.732846865	
3,600.00	34.88	285.320	3,199.35	368.28	-1,344.38	1,888,846.246	2,752,687.310	36.191026593	-107.733033748	
3,700.00	34.88	285.320	3,281.38	383.39	-1,399.54	1,888,861.356	2,752,632.150	36.191068259	-107.733220631	
3,800.00	34.88	285.320	3,363.41	398.50	-1,454.70	1,888,876.466	2,752,576.990	36.191109924	-107.733407515	
3,823.88	34.88	285.320	3,383.00	402.10	-1,467.87	1,888,880.074	2,752,563.820	36.191119873	-107.733452137	
Point Lookout										
3,900.00	34.88	285.320	3,445.44	413.61	-1,509.86	1,888,891.577	2,752,521.830	36.191151590	-107.733594398	
3,982.35	34.88	285.320	3,513.00	426.05	-1,555.29	1,888,904.021	2,752,476.404	36.191185903	-107.733748305	
Mancos										
4,000.00	34.88	285.320	3,527.48	428.72	-1,565.02	1,888,906.687	2,752,466.671	36.191193255	-107.733781282	
4,100.00	34.88	285.320	3,609.51	443.83	-1,620.18	1,888,921.797	2,752,411.511	36.191234920	-107.733968167	
4,200.00	34.88	285.320	3,691.54	458.94	-1,675.34	1,888,936.908	2,752,356.351	36.191276584	-107.734155051	
4,226.41	34.88	285.320	3,713.20	462.93	-1,689.91	1,888,940.898	2,752,341.784	36.191287588	-107.734204406	
Begin 10°/100' build/turn										
4,250.00	32.65	283.973	3,732.81	466.25	-1,702.59	1,888,944.217	2,752,329.101	36.191296741	-107.734247377	
4,300.00	27.96	280.493	3,775.97	471.64	-1,727.22	1,888,949.612	2,752,304.471	36.191311631	-107.734330828	
4,350.00	23.40	275.764	3,821.02	474.78	-1,748.64	1,888,952.746	2,752,283.053	36.191320300	-107.734403405	
4,400.00	19.04	268.959	3,867.63	475.63	-1,766.69	1,888,953.596	2,752,265.008	36.191322684	-107.734464554	
4,400.39	19.01	268.894	3,868.00	475.62	-1,766.81	1,888,953.593	2,752,264.881	36.191322678	-107.734464987	
MNCS_A										
4,450.00	15.07	258.528	3,915.43	474.18	-1,781.22	1,888,952.154	2,752,250.476	36.191318765	-107.734513809	
4,498.91	11.93	242.297	3,963.00	470.57	-1,791.93	1,888,948.538	2,752,239.765	36.191308861	-107.734550122	
MNCS_B										
4,500.00	11.87	241.844	3,964.07	470.46	-1,792.13	1,888,948.432	2,752,239.566	36.191308571	-107.734550797	
4,550.00	10.22	216.960	4,013.17	464.49	-1,799.33	1,888,942.459	2,752,232.361	36.191292181	-107.734575236	
4,593.53	10.62	192.816	4,056.00	457.49	-1,802.55	1,888,935.460	2,752,229.149	36.191272964	-107.734586145	
MNCS_C										
4,600.00	10.83	189.521	4,062.36	456.31	-1,802.78	1,888,934.279	2,752,228.916	36.191269720	-107.734586939	
4,636.39	12.56	173.637	4,098.00	449.00	-1,802.91	1,888,926.974	2,752,228.789	36.191249652	-107.734587394	
MNCS_Cms										
4,650.00	13.40	168.875	4,111.26	445.98	-1,802.44	1,888,923.955	2,752,229.257	36.191241358	-107.734585817	
4,700.00	17.07	155.835	4,159.51	433.60	-1,798.31	1,888,911.565	2,752,233.382	36.191207311	-107.734571880	
4,750.00	21.28	147.549	4,206.74	419.23	-1,790.43	1,888,897.205	2,752,241.260	36.191167838	-107.734545233	
4,767.55	22.83	145.353	4,223.00	413.75	-1,786.79	1,888,891.717	2,752,244.904	36.191152754	-107.734532903	
MNCS_D										
4,800.00	25.76	141.962	4,252.58	403.01	-1,778.86	1,888,880.982	2,752,252.830	36.191123241	-107.734506078	
4,850.00	30.39	137.958	4,296.69	385.05	-1,763.69	1,888,863.021	2,752,268.004	36.191073857	-107.734454715	
4,898.76	35.00	135.000	4,337.71	365.99	-1,745.53	1,888,843.962	2,752,286.162	36.191021451	-107.734393244	
Begin 10°/100' build										
4,900.00	35.12	135.000	4,338.73	365.49	-1,745.03	1,888,843.457	2,752,286.667	36.191020063	-107.734391535	
4,936.64	38.79	135.000	4,368.00	349.91	-1,729.45	1,888,827.884	2,752,302.240	36.190977237	-107.734338810	
MNCS_E										
4,950.00	40.12	135.000	4,378.32	343.91	-1,723.45	1,888,821.881	2,752,308.243	36.190960728	-107.734318486	
5,000.00	45.12	135.000	4,415.09	319.98	-1,699.52	1,888,797.946	2,752,332.178	36.190894910	-107.734237454	
5,018.60	46.98	135.000	4,428.00	310.51	-1,690.05	1,888,788.478	2,752,341.646	36.190868874	-107.734205400	
MNCS_F										
5,050.00	50.12	135.000	4,448.78	293.87	-1,673.41	1,888,771.836	2,752,358.288	36.190823110	-107.734149058	
5,100.00	55.12	135.000	4,479.13	265.78	-1,645.32	1,888,743.749	2,752,386.375	36.190745873	-107.734053969	
5,119.50	57.07	135.000	4,490.00	254.34	-1,633.88	1,888,732.306	2,752,397.818	36.190714406	-107.734015229	
MNCS_G										
5,148.76	60.00	135.000	4,505.27	236.69	-1,616.23	1,888,714.661	2,752,415.463	36.190665883	-107.733955490	
Begin 60.00° tangent										



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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	
5,208.76	60.00	135.000	4,535.27	199.95	-1,579.49	1,888,677.918	2,752,452.206	36.190564844	-107.733831099	
Begin 10°/100' build										
5,214.26	60.55	135.000	4,538.00	196.57	-1,576.11	1,888,674.537	2,752,455.587	36.190555547	-107.733819653	
MNCS_H										
5,250.00	64.12	135.000	4,554.59	174.19	-1,553.73	1,888,652.160	2,752,477.964	36.190494010	-107.733743893	
5,300.00	69.12	135.000	4,574.42	141.75	-1,521.29	1,888,619.717	2,752,510.408	36.190404794	-107.733634057	
5,350.00	74.12	135.000	4,590.18	108.20	-1,487.74	1,888,586.175	2,752,543.949	36.190312557	-107.733520502	
5,372.90	76.41	135.000	4,596.00	92.55	-1,472.08	1,888,570.516	2,752,559.608	36.190269496	-107.733467489	
MNCS_I										
5,400.00	79.12	135.000	4,601.74	73.82	-1,453.36	1,888,551.790	2,752,578.335	36.190218000	-107.733404091	
5,450.00	84.12	135.000	4,609.02	38.85	-1,418.39	1,888,516.823	2,752,613.302	36.190121843	-107.733285710	
5,500.00	89.12	135.000	4,611.96	3.57	-1,383.11	1,888,481.540	2,752,648.585	36.190024818	-107.733166262	
5,514.31	90.55	135.000	4,612.01	-6.55	-1,372.99	1,888,471.425	2,752,658.700	36.189997001	-107.733132016	
Begin 90.55° lateral										
5,600.00	90.55	135.000	4,611.18	-67.14	-1,312.40	1,888,410.833	2,752,719.293	36.189830378	-107.732926885	
5,700.00	90.55	135.000	4,610.21	-137.85	-1,241.69	1,888,340.126	2,752,790.000	36.189635937	-107.732687510	
5,800.00	90.55	135.000	4,609.24	-208.55	-1,170.98	1,888,269.419	2,752,860.708	36.189441496	-107.732448135	
5,900.00	90.55	135.000	4,608.27	-279.26	-1,100.28	1,888,198.712	2,752,931.415	36.189247055	-107.732208763	
6,000.00	90.55	135.000	4,607.30	-349.97	-1,029.57	1,888,128.005	2,753,002.123	36.189052614	-107.731969391	
6,100.00	90.55	135.000	4,606.33	-420.67	-958.86	1,888,057.299	2,753,072.830	36.188858172	-107.731730020	
6,200.00	90.55	135.000	4,605.36	-491.38	-888.15	1,887,986.592	2,753,143.538	36.188663729	-107.731490651	
6,300.00	90.55	135.000	4,604.40	-562.09	-817.45	1,887,915.885	2,753,214.245	36.188469286	-107.731251283	
6,400.00	90.55	135.000	4,603.43	-632.79	-746.74	1,887,845.178	2,753,284.953	36.188274842	-107.731011916	
6,500.00	90.55	135.000	4,602.46	-703.50	-676.03	1,887,774.471	2,753,355.661	36.188080398	-107.730772550	
6,600.00	90.55	135.000	4,601.49	-774.21	-605.32	1,887,703.764	2,753,426.368	36.187885953	-107.730533185	
6,700.00	90.55	135.000	4,600.52	-844.92	-534.62	1,887,633.057	2,753,497.076	36.187691508	-107.730293822	
6,800.00	90.55	135.000	4,599.55	-915.62	-463.91	1,887,562.350	2,753,567.783	36.187497062	-107.730054460	
6,900.00	90.55	135.000	4,598.59	-986.33	-393.20	1,887,491.643	2,753,638.491	36.187302616	-107.729815099	
7,000.00	90.55	135.000	4,597.62	-1,057.04	-322.49	1,887,420.937	2,753,709.198	36.187108169	-107.729575739	
7,100.00	90.55	135.000	4,596.65	-1,127.74	-251.78	1,887,350.230	2,753,779.906	36.186913722	-107.729336380	
7,200.00	90.55	135.000	4,595.68	-1,198.45	-181.08	1,887,279.523	2,753,850.613	36.186719274	-107.729097023	
7,300.00	90.55	135.000	4,594.71	-1,269.16	-110.37	1,887,208.816	2,753,921.321	36.186524826	-107.728857666	
7,400.00	90.55	135.000	4,593.74	-1,339.86	-39.66	1,887,138.109	2,753,992.029	36.186330378	-107.728618311	
7,500.00	90.55	135.000	4,592.78	-1,410.57	31.05	1,887,067.402	2,754,062.736	36.186135929	-107.728378957	
7,600.00	90.55	135.000	4,591.81	-1,481.28	101.75	1,886,996.695	2,754,133.444	36.185941479	-107.728139604	
7,700.00	90.55	135.000	4,590.84	-1,551.99	172.46	1,886,925.988	2,754,204.151	36.185747029	-107.727900253	
7,800.00	90.55	135.000	4,589.87	-1,622.69	243.17	1,886,855.281	2,754,274.859	36.185552578	-107.727660902	
7,900.00	90.55	135.000	4,588.90	-1,693.40	313.88	1,886,784.575	2,754,345.566	36.185358127	-107.727421553	
8,000.00	90.55	135.000	4,587.93	-1,764.11	384.58	1,886,713.868	2,754,416.274	36.185163676	-107.727182205	
8,100.00	90.55	135.000	4,586.97	-1,834.81	455.29	1,886,643.161	2,754,486.981	36.184969224	-107.726942858	
8,200.00	90.55	135.000	4,586.00	-1,905.52	526.00	1,886,572.454	2,754,557.689	36.184774771	-107.726703512	
8,300.00	90.55	135.000	4,585.03	-1,976.23	596.71	1,886,501.747	2,754,628.396	36.184580318	-107.726464168	
8,400.00	90.55	135.000	4,584.06	-2,046.94	667.42	1,886,431.040	2,754,699.104	36.184385865	-107.726224825	
8,500.00	90.55	135.000	4,583.09	-2,117.64	738.12	1,886,360.333	2,754,769.812	36.184191411	-107.725985482	
8,600.00	90.55	135.000	4,582.12	-2,188.35	808.83	1,886,289.626	2,754,840.519	36.183996957	-107.725746142	
8,700.00	90.55	135.000	4,581.16	-2,259.06	879.54	1,886,218.919	2,754,911.227	36.183802502	-107.725506802	
8,800.00	90.55	135.000	4,580.19	-2,329.76	950.25	1,886,148.213	2,754,981.934	36.183608047	-107.725267463	
8,900.00	90.55	135.000	4,579.22	-2,400.47	1,020.95	1,886,077.506	2,755,052.642	36.183413591	-107.725028126	
9,000.00	90.55	135.000	4,578.25	-2,471.18	1,091.66	1,886,006.799	2,755,123.349	36.183219134	-107.724788790	
9,100.00	90.55	135.000	4,577.28	-2,541.88	1,162.37	1,885,936.092	2,755,194.057	36.183024678	-107.724549455	
9,200.00	90.55	135.000	4,576.31	-2,612.59	1,233.08	1,885,865.385	2,755,264.764	36.182830220	-107.724310121	
9,300.00	90.55	135.000	4,575.34	-2,683.30	1,303.78	1,885,794.678	2,755,335.472	36.182635762	-107.724070788	
9,400.00	90.55	135.000	4,574.38	-2,754.01	1,374.49	1,885,723.971	2,755,406.179	36.182441304	-107.723831457	
9,500.00	90.55	135.000	4,573.41	-2,824.71	1,445.20	1,885,653.264	2,755,476.887	36.182246845	-107.723592126	



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	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	
9,600.00	90.55	135.000	4,572.44	-2,895.42	1,515.91	1,885,582.557	2,755,547.595	36.182052386	-107.723352797	
9,700.00	90.55	135.000	4,571.47	-2,966.13	1,586.62	1,885,511.851	2,755,618.302	36.181857927	-107.723113469	
9,800.00	90.55	135.000	4,570.50	-3,036.83	1,657.32	1,885,441.144	2,755,689.010	36.181663466	-107.722874142	
9,900.00	90.55	135.000	4,569.53	-3,107.54	1,728.03	1,885,370.437	2,755,759.717	36.181469006	-107.722634817	
10,000.00	90.55	135.000	4,568.57	-3,178.25	1,798.74	1,885,299.730	2,755,830.425	36.181223954	-107.722395492	
10,100.00	90.55	135.000	4,567.60	-3,248.95	1,869.45	1,885,229.023	2,755,901.132	36.181080083	-107.722156169	
10,200.00	90.55	135.000	4,566.63	-3,319.66	1,940.15	1,885,158.316	2,755,971.840	36.180885621	-107.721916847	
10,300.00	90.55	135.000	4,565.66	-3,390.37	2,010.86	1,885,087.609	2,756,042.547	36.180691158	-107.721677526	
10,400.00	90.55	135.000	4,564.69	-3,461.08	2,081.57	1,885,016.902	2,756,113.255	36.180496695	-107.721438207	
10,500.00	90.55	135.000	4,563.72	-3,531.78	2,152.28	1,884,946.195	2,756,183.962	36.180302232	-107.721198888	
10,600.00	90.55	135.000	4,562.76	-3,602.49	2,222.98	1,884,875.489	2,756,254.670	36.180107767	-107.720959571	
10,700.00	90.55	135.000	4,561.79	-3,673.20	2,293.69	1,884,804.782	2,756,325.378	36.179913303	-107.720720255	
10,800.00	90.55	135.000	4,560.82	-3,743.90	2,364.40	1,884,734.075	2,756,396.085	36.179718838	-107.720480940	
10,900.00	90.55	135.000	4,559.85	-3,814.61	2,435.11	1,884,663.368	2,756,466.793	36.179524372	-107.720241626	
11,000.00	90.55	135.000	4,558.88	-3,885.32	2,505.82	1,884,592.661	2,756,537.500	36.179329906	-107.720002314	
11,100.00	90.55	135.000	4,557.91	-3,956.03	2,576.52	1,884,521.954	2,756,608.208	36.179135440	-107.719763002	
11,200.00	90.55	135.000	4,556.95	-4,026.73	2,647.23	1,884,451.247	2,756,678.915	36.178940973	-107.719523692	
11,300.00	90.55	135.000	4,555.98	-4,097.44	2,717.94	1,884,380.540	2,756,749.623	36.178746506	-107.719284383	
11,400.00	90.55	135.000	4,555.01	-4,168.15	2,788.65	1,884,309.832	2,756,820.330	36.178552038	-107.719045075	
11,500.00	90.55	135.000	4,554.04	-4,238.85	2,859.35	1,884,239.126	2,756,891.038	36.178357569	-107.718805770	
11,600.00	90.55	135.000	4,553.07	-4,309.56	2,930.06	1,884,168.419	2,756,961.746	36.178163100	-107.718566464	
11,700.00	90.55	135.000	4,552.10	-4,380.27	3,000.77	1,884,097.712	2,757,032.453	36.177968631	-107.718327160	
11,800.00	90.55	135.000	4,551.13	-4,450.97	3,071.48	1,884,027.005	2,757,103.161	36.177774161	-107.718087857	
11,900.00	90.55	135.000	4,550.17	-4,521.68	3,142.18	1,883,956.298	2,757,173.868	36.177579691	-107.717848555	
12,000.00	90.55	135.000	4,549.20	-4,592.39	3,212.89	1,883,885.591	2,757,244.576	36.177385220	-107.717609254	
12,100.00	90.55	135.000	4,548.23	-4,663.10	3,283.60	1,883,814.884	2,757,315.283	36.177190749	-107.717369954	
12,200.00	90.55	135.000	4,547.26	-4,733.80	3,354.31	1,883,744.177	2,757,385.991	36.176996277	-107.717130656	
12,300.00	90.55	135.000	4,546.29	-4,804.51	3,425.02	1,883,673.471	2,757,456.698	36.176801805	-107.716891359	
12,330.24	90.55	135.000	4,546.00	-4,825.89	3,446.40	1,883,652.090	2,757,478.079	36.176743000	-107.716819000	
PBHL/TD 12330.24 MD 4546.00 TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Rode 495 LTP 233 FSL ! - hit/miss target - Shape - Point	0.00	0.000	4,546.00	-4,825.89	3,446.40	1,883,652.090	2,757,478.079	36.176743000	-107.716819000	
Rode 495 FTP 234 FNL - plan misses target center by 0.01ft at 5514.31ft MD (4612.00 TVD, -6.55 N, -1372.99 E) - Point	0.00	0.000	4,612.00	-6.55	-1,372.99	1,888,471.424	2,752,658.705	36.189997000	-107.733132000	

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	
2,781.59	2,528.00	9 5/8" Casing	9-5/8	12-1/4	



Planning Report - Geographic

Database:	DB_Feb2822	Local Co-ordinate Reference:	Well Rodeo Unit #495H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6680+28 @ 6708.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6680+28 @ 6708.00ft
Site:	Rodeo Unit 492 pad (494 & 495)	North Reference:	Grid
Well:	Rodeo Unit #495H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
283.00	283.00	Ojo Alamo				
376.00	376.00	Kirtland				
603.00	603.00	Fruitland				
939.79	938.00	Pictured Cliffs				
1,057.36	1,053.00	Lewis				
1,336.09	1,318.00	Chacra_A				
2,562.16	2,348.00	Cliff House_Basal				
2,598.73	2,378.00	Menefee				
3,823.88	3,383.00	Point Lookout				
3,982.35	3,513.00	Mancos				
4,400.39	3,868.00	MNCS_A				
4,498.91	3,963.00	MNCS_B				
4,593.53	4,056.00	MNCS_C				
4,636.39	4,098.00	MNCS_Cms				
4,767.55	4,223.00	MNCS_D				
4,936.64	4,368.00	MNCS_E				
5,018.60	4,428.00	MNCS_F				
5,119.50	4,490.00	MNCS_G				
5,214.26	4,538.00	MNCS_H				
5,372.90	4,596.00	MNCS_I				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
600.00	600.00	0.00	0.00	KOP Begin 3°/100' build	
1,762.81	1,692.29	90.67	-330.99	Begin 34.88° tangent	
4,226.41	3,713.20	462.93	-1,689.91	Begin 10°/100' build/turn	
4,898.76	4,337.71	365.99	-1,745.53	Begin 10°/100' build	
5,148.76	4,505.27	236.69	-1,616.23	Begin 60.00° tangent	
5,208.76	4,535.27	199.95	-1,579.49	Begin 10°/100' build	
5,514.31	4,612.01	-6.55	-1,372.99	Begin 90.55° lateral	
12,330.24	4,546.00	-4,825.89	3,446.40	PBHL/TD 12330.24 MD 4546.00 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 495H

API Number: 30-045-31870

AFE Number: not yet assigned

ER Well Number: not yet assigned

State: New Mexico

County: San Juan

Surface Elevation: 6,680 ft ASL (GL) 6,708 ft ASL (KB)

Surface Location: 31-23N-08W Sec-Twn-Rng 225 ft FNL 895 ft FWL

36.190011 ° N latitude 107.728479 ° W longitude (NAD 83)

BH Location: 31-23N-08W Sec-Twn-Rng 233 ft FSL 950 ft FEL

36.176743 ° N latitude 107.716819 ° 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 38.7 miles to MM 112.7; Right (South) on CR 7900 for 2.3 miles to fork; Right (West) on 7940 for 2.6 miles, Right (North-West) on new acces road for approximately 0.2 miles to Rodeo Unit 492H Pad (two wells planned to be drilled: 494H, 495H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	6,425	283	283	W	normal
	Kirtland	6,332	376	376	W	normal
	Fruitland	6,105	603	603	G, W	sub
	Pictured Cliffs	5,770	938	940	G, W	sub
	Lewis	5,655	1,053	1,057	G, W	normal
	Chacra	5,390	1,318	1,336	G, W	normal
	Cliff House	4,360	2,348	2,562	G, W	sub
	Menefee	4,330	2,378	2,599	G, W	normal
	Point Lookout	3,325	3,383	3,824	G, W	normal
	Mancos	3,195	3,513	3,982	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,840	3,868	4,400	O,G	sub (~0.38)
	MNCS_B	2,745	3,963	4,499	O,G	sub (~0.38)
	MNCS_C	2,652	4,056	4,594	O,G	sub (~0.38)
	MNCS_Cms	2,610	4,098	4,636	O,G	sub (~0.38)
	MNCS_D	2,485	4,223	4,768	O,G	sub (~0.38)
	MNCS_E	2,340	4,368	4,937	O,G	sub (~0.38)
	MNCS_F	2,280	4,428	5,019	O,G	sub (~0.38)
	MNCS_G	2,218	4,490	5,120	O,G	sub (~0.38)
	MNCS_H	2,170	4,538	5,214	O,G	sub (~0.38)
	MNCS_I	2,112	4,596	5,373	O,G	sub (~0.38)
	FTP (LP) TARGET	2,096	4,612	5,514	O,G	sub (~0.38)
	LTP (TD) TARGET	2,162	4,546	12,330	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: 1,990 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 980 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 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	551	116,634	116,634
Min. S.F.					7.39	4.96	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	2,782 ft (MD)	Hole Section Length:	2,432 ft
350 ft (TVD)	to	2,528 ft (TVD)	Casing Required:	2,782 ft

***TARGET CSG SHOE DEPTH IS 150' TVD BELOW MENEFE 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
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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					1,104	1,125	187,337	187,337
Min. S.F.					1.83	3.13	3.01	2.42

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): Minimum: 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	568
Tail	Type III	14.6	1.380	6.64	20%	2,282	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.

2,782 ft (MD)	to	12,330 ft (MD)	Hole Section Length:	9,548 ft
2,528 ft (TVD)	to	4,546 ft (TVD)	Casing Required:	12,330 ft

Estimated KOP:	4,226 ft (MD)	3,713 ft (TVD)
Estimated Landing Point (FTP):	5,514 ft (MD)	4,612 ft (TVD)
Estimated Lateral Length:	6,816 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:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,246	8,926	380,874	380,874
Min. S.F.					3.32	1.19	1.43	1.17

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 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	638
Tail	G:POZ blend	13.3	1.560	7.70	10%	3,982	1,349

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: TBD

Completion: TBD

Production: TBD

Prepared by: Alec Bridge 4/17/2019

Updated by: Alec Bridge 3/22/2022 - updated drilling prog & directional plans for new development plan & current program

WELL NAME: **RODEO UNIT 495H**
OBJECTIVE: **Drill, complete, and equip single lateral in the Mancos-I formation**

API Number: 30-045-31870
State: New Mexico
County: San Juan

Surface Elev.: 6,680 ft ASL (GL) 6,708 ft ASL (KB)
Surface Location: 31-23N-08W Sec-Twn- Rng 225 ft FNL 895 ft FWL
BH Location: 31-23N-08W Sec-Twn- Rng 233 ft FSL 950 ft FEL

Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**
South on US Hwy 550 for 38.7 miles to MM 112.7; Right (South) on CR 7900 for 2.3 miles to fork; Right (West) on 7940 for 2.6 miles, Right (North-West) on new acces road for approximately 0.2 miles to Rodeo Unit 492H Pad (two wells planned to be drilled: 494H, 495H).

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	2,782 ft
KOP (MD)	4,226 ft
KOP (TVD)	3,713 ft
Target (TVD)	4,612 ft
Curve BUR	10 °/100 ft
POE (MD)	5,514 ft
TD (MD)	12,330 ft
Lat Len (ft)	6,816 ft

WELL CONSTRUCTION SUMMARY:

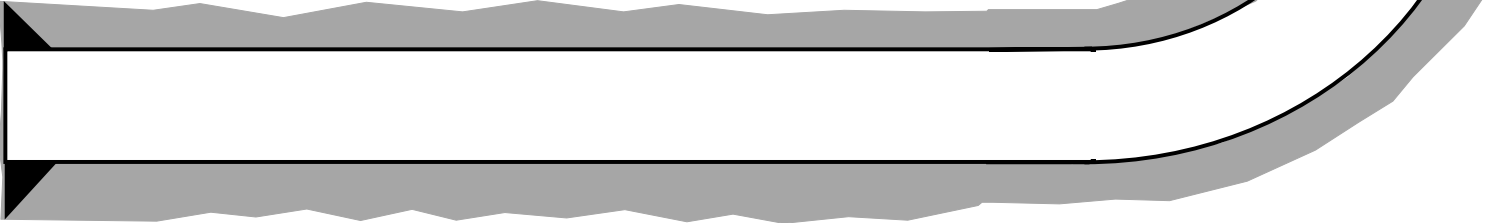
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	2,782	9.625	36.0	J-55	LTC	0	2,782
Production	8.500	12,330	5.500	17.0	P-110	LTC	0	12,330

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	568
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,282	136
Prod. (Lead)	Type I / II	12.4	2.360	13.40	0.2691	65%	0	638
Prod. (Tail)	G:POZ blend	13.3	1.560	7.70	0.2291	10%	3,982	1,349

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	283	283
	Kirtland	376	376
	Fruitland	603	603
	Pictured Cliffs	938	940
	Lewis	1,053	1,057
	Chacra	1,318	1,336
	Cliff House	2,348	2,562
	Menefee	2,378	2,599
	Point Lookout	3,383	3,824
	Mancos	3,513	3,982
	Gallup (MNCS_A)	3,868	4,400
	MNCS_B	3,963	4,499
	MNCS_C	4,056	4,594
	MNCS_Cms	4,098	4,636
	MNCS_D	4,223	4,768
	MNCS_E	4,368	4,937
	MNCS_F	4,428	5,019
	MNCS_G	4,490	5,120
	MNCS_H	4,538	5,214
	MNCS_I	4,596	5,373
	FTP (LP) TARGET	4,612	5,514
	LTP (TD) TARGET	4,546	12,330

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1625 N. French Dr., Hobbs, NM 88240
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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 92831

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 92831
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	3/25/2022