

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

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30-039-31443	⁵ Pool Name COUNSELOR GALLUP-DAKOTA OIL POOL		⁶ Pool Code 13379
⁷ Property Code 335063	⁸ Property Name HAYNES CANYON UNIT		⁹ Well Number 428H

II. ¹⁰ Surface Location

Ul or lot no. M	Section 3	Township 23N	Range 6W	Lot Idn	Feet from the 903	North/South Line SOUTH	Feet from the 429	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location

UL or lot no. A	Section 15	Township 23N	Range 6W	Lot Idn	Feet from the 271	North/South line NORTH	Feet from the 218	East/West line EAST	County RIO ARRIBA
¹² Lse Code F	¹³ Producing Method Code F		¹⁴ Gas Connection Date 06/15/24		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

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

IV. Well Completion Data

²¹ Spud Date 3/4/24	²² Ready Date 6/14/24	²³ TD 13,504' MD 5,437' TVD	²⁴ PBDT 13,478' MD 5,437 TVD	²⁵ Perforations 5,923'– 13,428' MD 5,429'-5438' TVD AlphaSleeve 13,452'	²⁶ DHC, MC R-23096		
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement	
12.25"		9.625", 36#, J-55		360'		109 sx	
8.75"		7", 26#, J-55		5,991'		Lead: 565 sx Tail: 151 sx	
6.125"		4.5", 11.6#, P-110		TOL: 5,841 BOL: 13,489		622 sx	
2.875"		6.5# J-55 L-80		6,254'			

V. Well Test Data

³¹ Date New Oil 6/17/24	³² Gas Delivery Date 6/15/24		³³ Test Date 6/18/24		³⁴ Test Length 24		³⁵ Tbg. Pressure 222		³⁶ Csg. Pressure 797	
³⁷ Choke Size 64/64	³⁸ Oil 720		³⁹ Water 768		⁴⁰ Gas 624				⁴¹ Test Method F	

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Heather Huntington</i> Printed name: Heather Huntington Title: Permitting Technician E-mail Address: hhuntington@enduringresources.com Date: 7/30/24					OIL CONSERVATION DIVISION				
					Approved by: <i>PATRICIA MARTINEZ</i>				
					Title: <i>PETROLEUM SPECIALIST</i>				
					Approval Date: <i>8/15/2024</i>				



ENDURING RESOURCES IV LLC

May 8, 2024

Re: Haynes Canyon 428H API 30-039-31443

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

Sincerely,

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

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

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

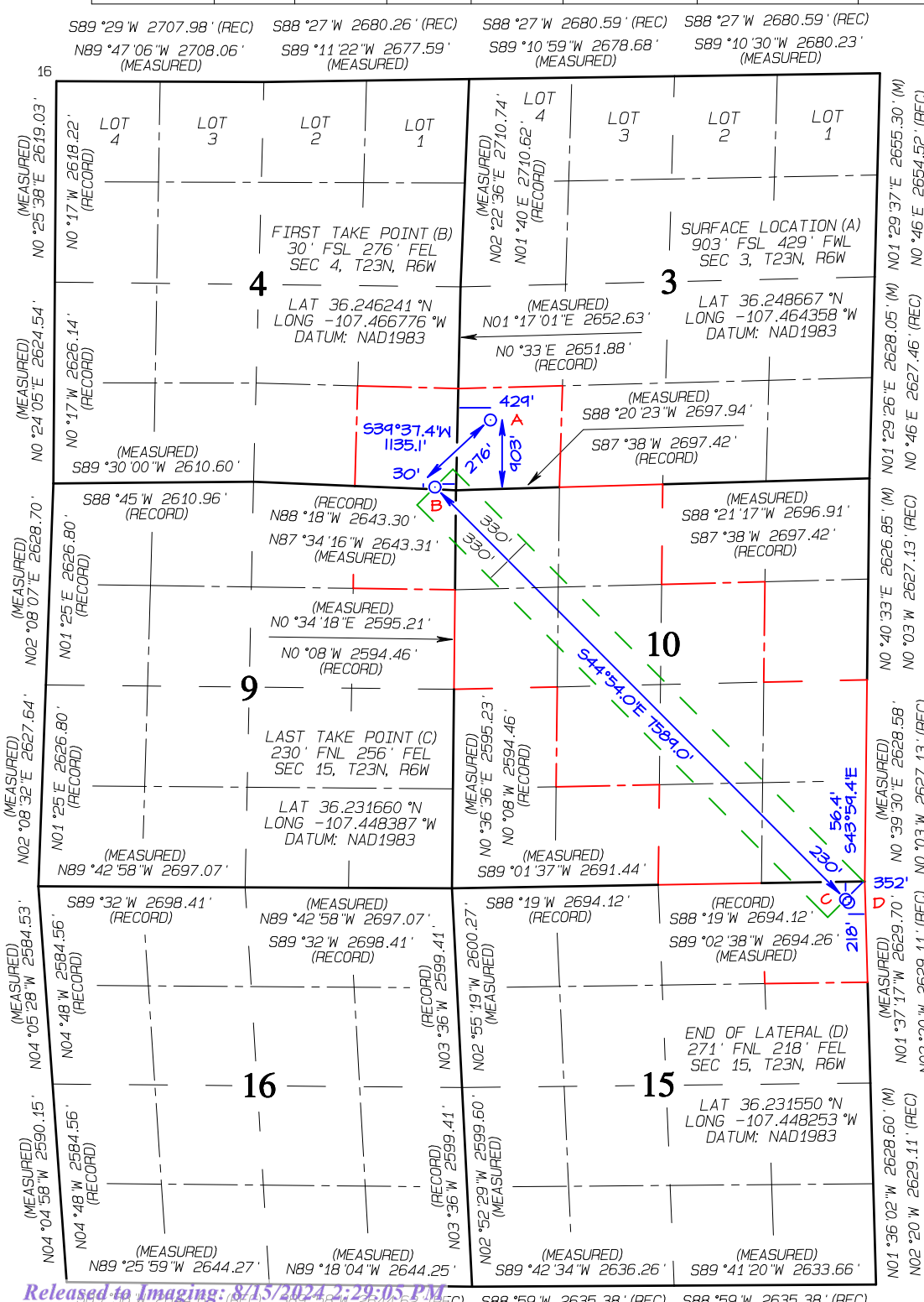
¹ APT. Number 30-039-31443		² Pool Code 13379		³ Pool Name COUNSELOR GALLUP-DAKOTA OIL POOL	
⁴ Property Code 335063		⁵ Property Name HAYNES CANYON UNIT			⁶ Well Number 428H
⁷ OGRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6703'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	3	23N	6W		903	SOUTH	429	WEST	RIO ARriba

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
A	15	23N	6W		271	NORTH	218	EAST	RIO ARriba



¹² Dedicated Acres 560.0 Acres	
SW/4 SW/4 - Section 3 SE/4 SE/4 - Section 4 NE/4 NE/4 - Section 9 NE/4 SW/4, SW/4 NE/4 NW/4, SE/4 - Section 10 NE/4 NE/4 - Section 15	
¹³ Joint or Infill	¹⁴ Consolidation Code
¹⁵ Order No. R-23096	

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.	
Signature Heather Huntington	Date 5/6/24
Printed Name Heather Huntington	
hhuntington@enduringresources.com	
E-mail Address	

¹⁸ SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
Date Revised: MAY 3, 2024	
Survey Date: JANUARY 12, 2023	
Signature and Seal of Professional Surveyor	



JASON C. EDWARDS
Certificate Number 15269

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31443		² Pool Code 13379		³ Pool Name COUNSELOR GALLUP-DAKOTA OIL POOL	
⁴ Property Code 335063		⁵ Property Name HAYNES CANYON UNIT			⁶ Well Number 428H
⁷ OGRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6703'

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S89°29'W 2707.98' (REC) S88°27'W 2680.26' (REC) S88°27'W 2680.59' (REC) S88°27'W 2680.59' (REC)
N89°47'06"W 2708.06' (MEASURED) S89°11'22"W 2677.59' (MEASURED) S89°10'59"W 2678.68' (MEASURED) S89°10'30"W 2680.23' (MEASURED)

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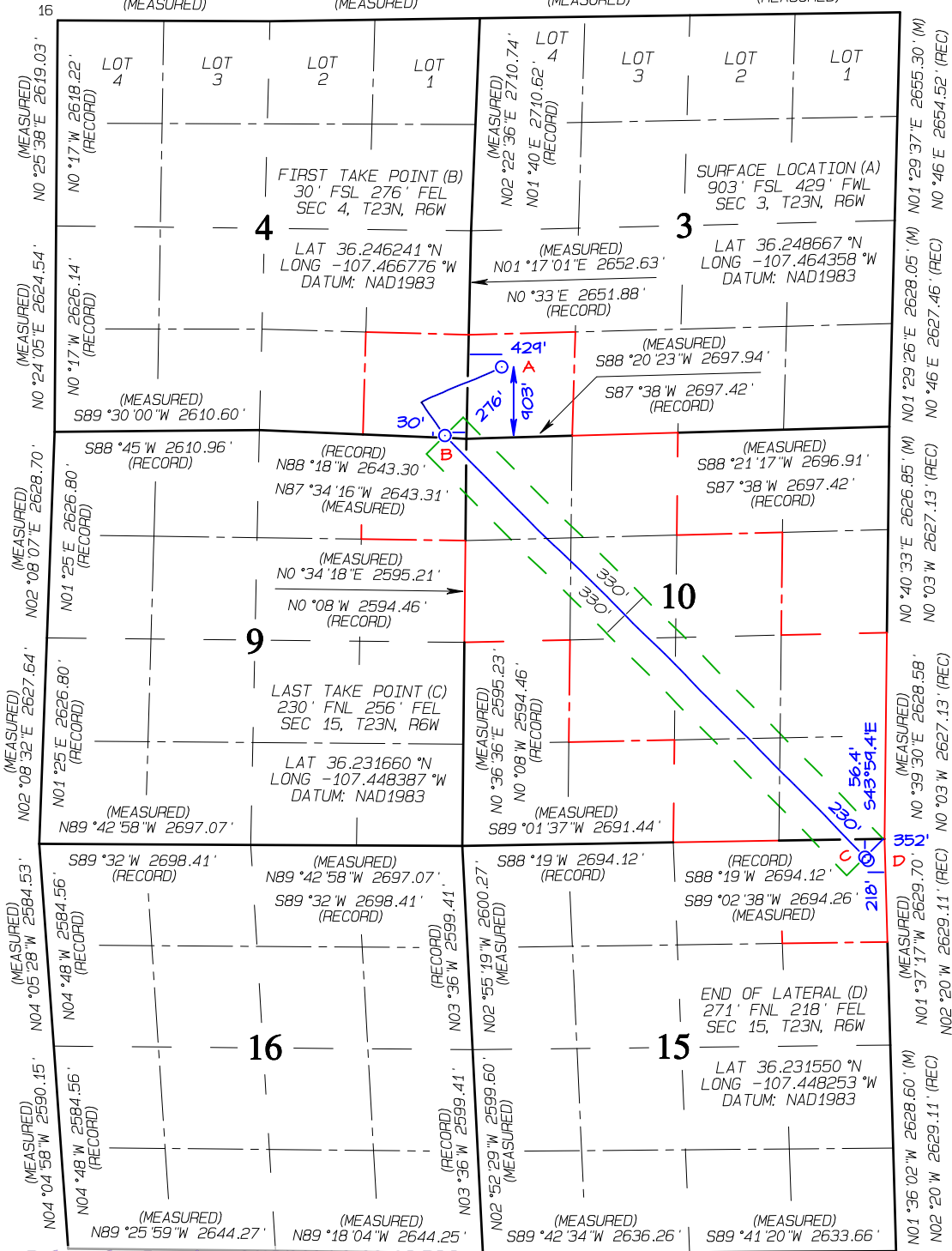
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<i>Heather Huntington</i>	5/6/24
Signature	Date
Heather Huntington	
Printed Name	
hhuntington@enduringresources.com	
E-mail Address	

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Date Revised: MAY 3, 2024	
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Heather Huntington 5/6/24
Signature Date
Heather Huntington
Printed Name
hhuntington@enduringresources.com
E-mail Address

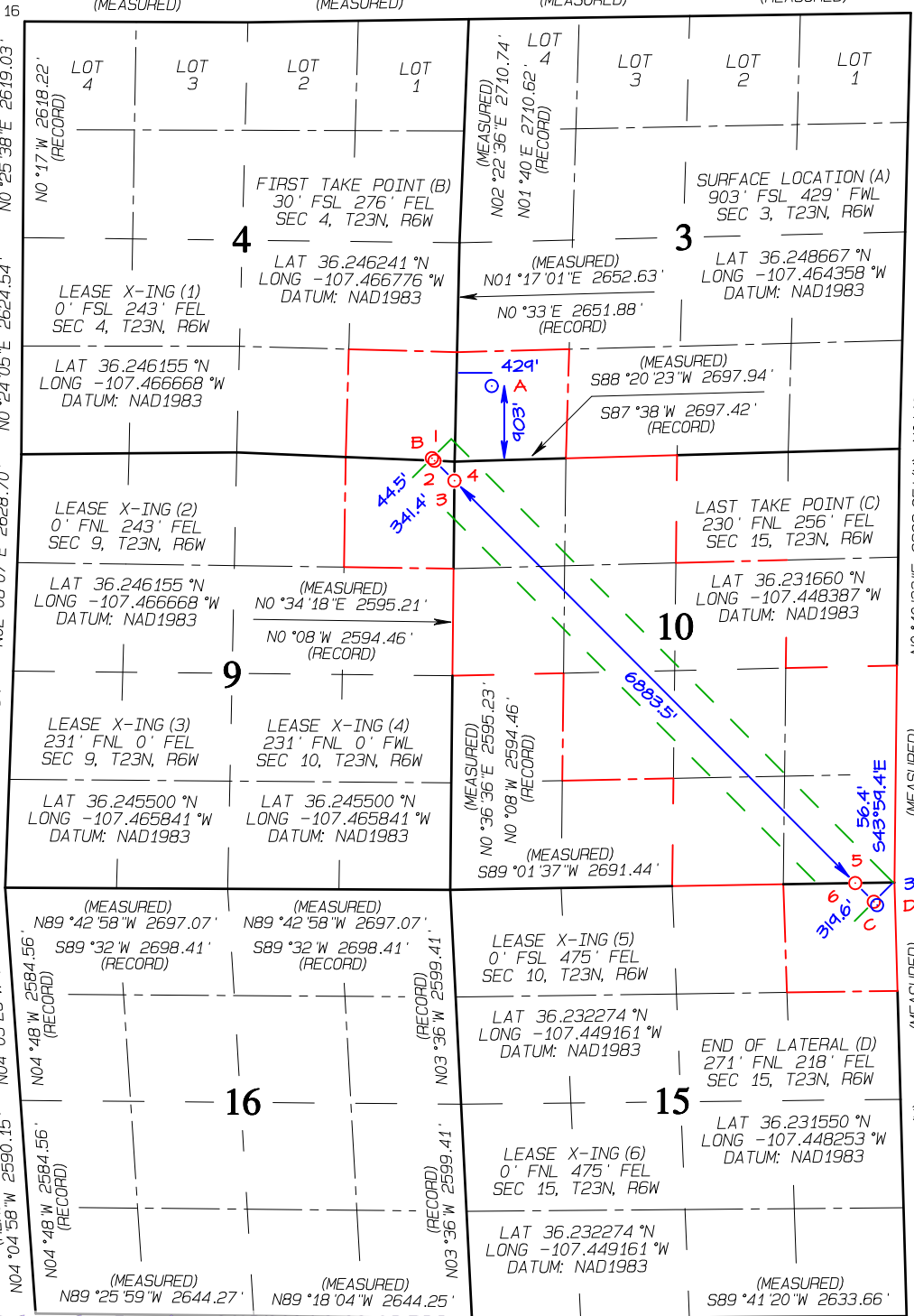
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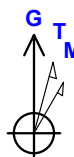
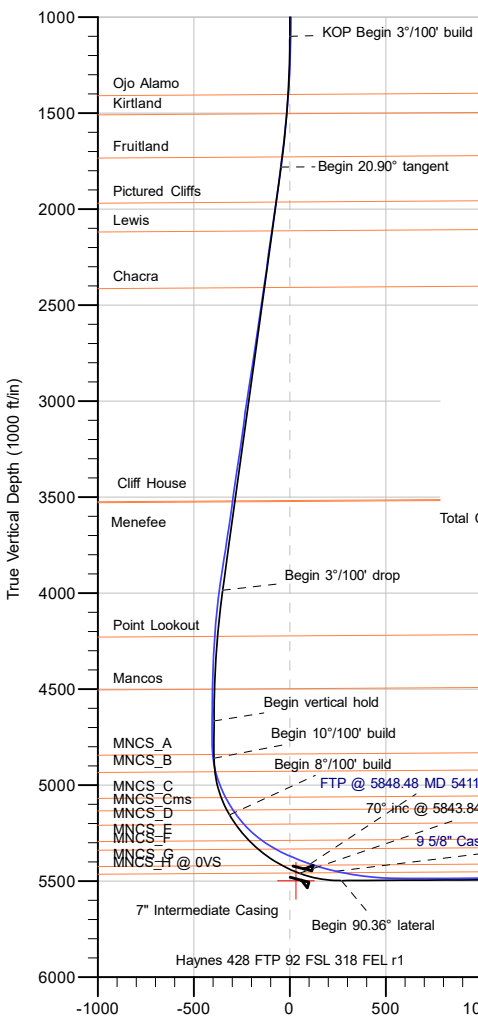
Well: Haynes Canyon Unit 428H
Site: Haynes Canyon Unit (428,430,440 & 442)
Project: Rio Arriba County, New Mexico NAD83 NM C
Design: rev3
Rig: Aztec 1000

DESIGN TARGET DETAILS

name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Haynes 428 FTP 92 FSL 318 FEL r1	5498.00	-810.36	-764.87	1911214.93	1281588.88	36.24641500	-107.46691700
Haynes 428 LTP 204 FNL 240 FEL r1	5451.00	-6223.13	-4647.91	1905802.16	1287001.65	36.23173400	-107.44833700

ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
420.00	1.25	173.700	419.97	-4.55	0.50	3.58	MWD surveys
5848.48	70.04	138.807	5411.30	-874.32	-723.99	106.26	FTP @ 5848.48 MD 5411.30 TVD
5991.00	77.65	135.416	5448.58	-973.72	-629.14	243.61	9 5/8" Casing shoe @ 5991.00 MD 5448.58 TVD
13380.00	91.48	136.010	5438.78	-6201.36	4585.87	7627.68	Survey @ 13380.00 MD 5438.78 TVD
13447.60	91.48	136.010	5437.03	-6249.98	4632.81	7695.25	LTP @ 13447.60 MD 5437.03 TVD
13467.00	91.48	136.010	5436.53	-6263.93	4646.28	7714.64	330 ppd @ 13467.00 MD 5436.53 TVD
13504.00	91.48	136.010	5435.58	-6290.54	4671.97	7751.62	Survey proj. to 13504 MD 5435.58 TVD 271.7 FNL 218.2 FEL



Azimuths to Grid North
True North: 0.72°
Magnetic North: 9.10°
Magnetic Field
Strength: 49072.4nT
Dip Angle: 62.75°
Date: 3/25/2024
Model: IGRF2020

CASING DETAILS

TVD	MD	Name
350.00	350.00	9-5/8" Surface Casing
5477.97	5905.44	7" Intermediate Casing

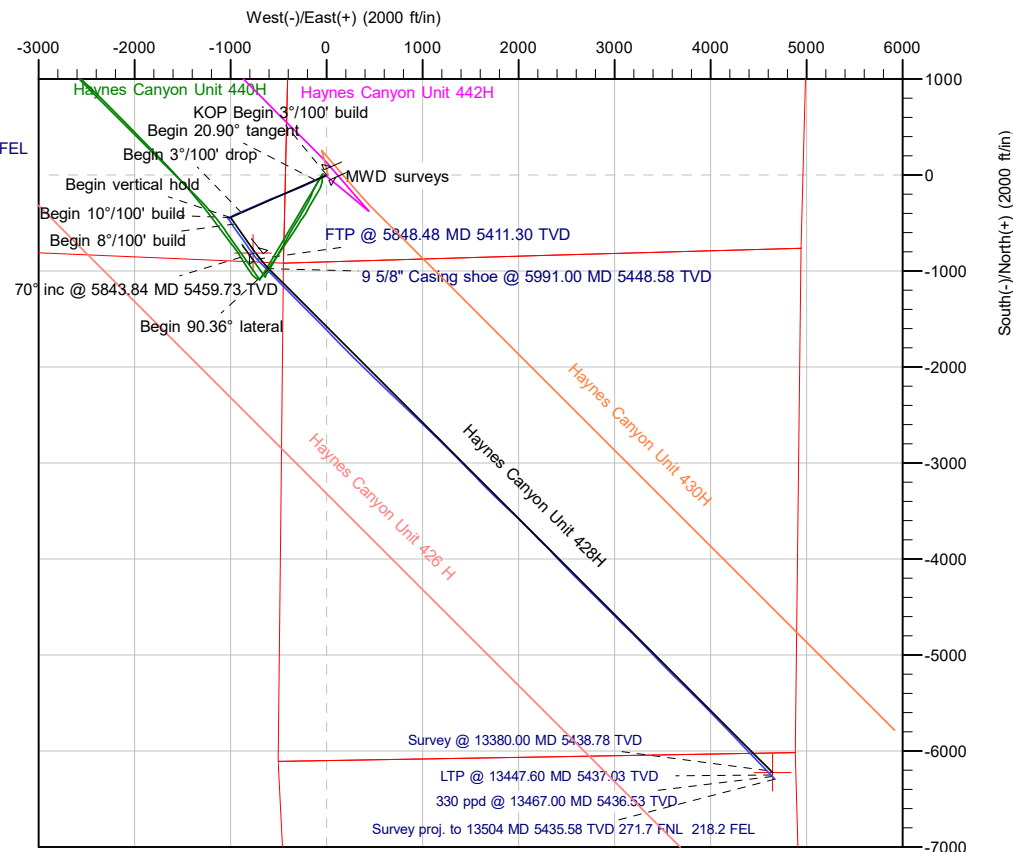
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6703+25 @ 6728.00ft (Aztec 1000)
Surface location:
Northing 1912025.28 Easting 1282353.75 Latitude 36.24866700 Longitude -107.46435800

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 9.10°



Vertical Section at 134.998° (1000 ft/in)

Section Details										
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	1100.00	0.00	0.000	1100.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3"/100' build
3	1796.52	20.90	246.159	1781.18	-50.77	-114.89	3.00	246.16	-45.34	Begin 20.90" tangent
4	4155.82	20.90	246.159	3985.32	-390.90	-884.57	0.00	0.00	-349.11	Begin 3"/100' drop
5	4852.34	0.00	0.000	4666.50	-441.67	-999.46	3.00	180.00	-394.45	Begin vertical hold
6	5046.34	0.00	0.000	4860.50	-441.67	-999.46	0.00	0.00	-394.45	Begin 10"/100' build
7	5356.34	31.00	144.790	5155.60	-508.53	-952.27	10.00	144.79	-313.81	Begin 8"/100' build
8	5843.84	70.00	144.790	5459.73	-809.98	-739.55	8.00	0.00	49.76	70" inc @ 5843.84 MD 5459.73 TVD
9	6068.93	90.36	135.000	5498.00	-978.13	-597.16	10.00	-26.37	269.35	Begin 90.36" lateral
10	13486.67	90.36	135.000	5451.00	-6223.13	4647.91	0.00	0.00	7686.95	PBHLTD @ 13486.67 MD 5451.00 TVD





Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Haynes Canyon Unit 428H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

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

Site		Haynes Canyon Unit (428,430,440 & 442)			
Site Position:		Northing:	1,912,025.28 usft	Latitude:	36.24866700
From:	Lat/Long	Easting:	1,282,353.75 usft	Longitude:	-107.46435800
Position Uncertainty:		0.00 ft	Slot Radius:	13-3/16 "	

Well							Haynes Canyon Unit 428H, Surf loc: 903 FSL 429 FWL Section 03-T23N-R06W						
Well Position		+N/-S	0.00 ft	Northing:		1,912,025.28 usft		Latitude:		36.24866700			
		+E/-W	0.00 ft			Easting:				1,282,353.75 usft		Longitude:	
Position Uncertainty			0.00 ft	Wellhead Elevation:		ft		Ground Level:		6,703.00 ft			
Grid Convergence:			-0.72 °										

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/25/2024	8.39	62.75	49,072.42778390

Design	MWD surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	134.998	

Survey Program	Date	4/21/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
420.00	5,939.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
6,044.00	13,380.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
13,490.00	13,504.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
420.00	1.25	173.700	419.97	-4.55	0.50	3.58	0.30	0.30	0.00
MWD surveys									
514.00	1.24	168.290	513.94	-6.57	0.82	5.23	0.13	-0.01	-5.76
609.00	0.50	180.190	608.93	-7.99	1.03	6.38	0.80	-0.78	12.53
704.00	0.70	156.170	703.93	-8.94	1.26	7.21	0.33	0.21	-25.28
799.00	0.34	281.560	798.93	-9.41	1.22	7.52	0.99	-0.38	131.99
893.00	0.40	304.070	892.92	-9.17	0.68	6.96	0.17	0.06	23.95



Survey Report



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

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)
988.00	0.33	286.330	987.92	-8.91	0.14	6.40	0.14	-0.07	-18.67
1,083.00	1.15	266.260	1,082.91	-8.89	-1.08	5.53	0.89	0.86	-21.13
1,174.00	2.82	255.180	1,173.86	-9.52	-4.15	3.80	1.87	1.84	-12.18
1,264.00	6.57	250.950	1,263.54	-11.77	-11.16	0.43	4.18	4.17	-4.70
1,355.00	9.84	245.440	1,353.60	-16.70	-23.16	-4.56	3.69	3.59	-6.05
1,445.00	12.16	247.190	1,441.94	-23.58	-38.89	-10.83	2.60	2.58	1.94
1,535.00	14.50	245.130	1,529.51	-31.99	-57.85	-18.29	2.65	2.60	-2.29
1,627.00	16.69	246.140	1,618.11	-42.18	-80.39	-27.02	2.40	2.38	1.10
1,715.00	18.64	245.190	1,701.96	-53.19	-104.71	-36.43	2.24	2.22	-1.08
1,806.00	19.80	245.360	1,787.89	-65.72	-131.92	-46.82	1.28	1.27	0.19
1,896.00	21.27	245.840	1,872.17	-78.76	-160.67	-57.93	1.64	1.63	0.53
1,990.00	22.41	247.440	1,959.42	-92.61	-192.78	-70.84	1.37	1.21	1.70
2,085.00	22.26	247.010	2,047.29	-106.59	-226.07	-84.49	0.23	-0.16	-0.45
2,180.00	21.63	246.160	2,135.41	-120.69	-258.65	-97.56	0.74	-0.66	-0.89
2,275.00	20.71	244.320	2,224.00	-135.05	-289.80	-109.44	1.19	-0.97	-1.94
2,369.00	19.49	247.270	2,312.27	-148.31	-319.25	-120.88	1.69	-1.30	3.14
2,464.00	20.08	248.560	2,401.66	-160.40	-349.04	-133.41	0.77	0.62	1.36
2,559.00	19.65	248.680	2,491.01	-172.16	-379.10	-146.34	0.45	-0.45	0.13
2,654.00	20.71	249.660	2,580.18	-183.81	-409.73	-159.77	1.17	1.12	1.03
2,749.00	19.44	248.060	2,669.41	-195.56	-440.15	-172.97	1.46	-1.34	-1.68
2,843.00	20.08	249.920	2,757.87	-206.94	-469.82	-185.90	0.95	0.68	1.98
2,938.00	21.43	249.030	2,846.70	-218.75	-501.34	-199.84	1.46	1.42	-0.94
3,033.00	20.27	248.590	2,935.48	-230.97	-532.87	-213.49	1.23	-1.22	-0.46
3,128.00	21.10	248.270	3,024.36	-243.31	-564.07	-226.83	0.88	0.87	-0.34
3,222.00	19.10	246.140	3,112.63	-255.80	-593.86	-239.07	2.27	-2.13	-2.27
3,317.00	20.55	247.210	3,202.00	-268.54	-623.45	-250.98	1.57	1.53	1.13
3,412.00	22.80	248.490	3,290.27	-281.75	-655.95	-264.62	2.42	2.37	1.35
3,507.00	22.37	245.360	3,377.99	-296.04	-689.51	-278.25	1.34	-0.45	-3.29
3,601.00	21.73	242.380	3,465.12	-311.56	-721.18	-289.67	1.37	-0.68	-3.17
3,696.00	21.32	247.370	3,553.50	-326.36	-752.71	-301.50	1.97	-0.43	5.25
3,791.00	22.18	247.470	3,641.74	-339.88	-785.21	-314.93	0.91	0.91	0.11
3,886.00	21.27	247.340	3,729.99	-353.39	-817.68	-328.33	0.96	-0.96	-0.14
3,980.00	22.43	247.930	3,817.23	-366.70	-850.03	-341.80	1.26	1.23	0.63
4,075.00	22.43	247.020	3,905.05	-380.58	-883.51	-355.66	0.37	0.00	-0.96
4,170.00	19.44	246.230	3,993.76	-394.03	-914.67	-368.18	3.16	-3.15	-0.83
4,264.00	17.17	244.300	4,083.00	-406.36	-941.50	-378.43	2.50	-2.41	-2.05
4,359.00	14.18	242.750	4,174.46	-417.77	-964.48	-386.62	3.18	-3.15	-1.63
4,454.00	12.39	242.270	4,266.91	-427.84	-983.85	-393.19	1.89	-1.88	-0.51
4,549.00	9.61	241.120	4,360.16	-436.41	-999.82	-398.42	2.94	-2.93	-1.21
4,644.00	6.52	233.230	4,454.21	-443.47	-1,011.08	-401.40	3.45	-3.25	-8.31
4,739.00	4.86	236.470	4,548.74	-448.93	-1,018.76	-402.97	1.78	-1.75	3.41
4,834.00	2.38	241.960	4,643.54	-452.08	-1,023.86	-404.35	2.63	-2.61	5.78
4,928.00	0.50	53.960	4,737.52	-452.75	-1,025.25	-404.85	3.06	-2.00	182.98



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Haynes Canyon Unit 428H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,960.00	0.54	40.490	4,769.52	-452.56	-1,025.04	-404.84	0.40	0.13	-42.09
4,992.00	1.69	124.570	4,801.51	-452.71	-1,024.55	-404.39	5.38	3.59	262.75
5,023.00	4.65	139.190	4,832.46	-453.92	-1,023.35	-402.69	9.82	9.55	47.16
5,055.00	7.99	140.910	4,864.27	-456.63	-1,021.10	-399.18	10.45	10.44	5.38
5,086.00	11.36	140.860	4,894.82	-460.67	-1,017.81	-394.00	10.87	10.87	-0.16
5,117.00	14.14	142.880	4,925.05	-466.06	-1,013.60	-387.21	9.08	8.97	6.52
5,149.00	17.17	144.080	4,955.86	-473.00	-1,008.47	-378.67	9.52	9.47	3.75
5,181.00	20.16	145.010	4,986.18	-481.35	-1,002.54	-368.57	9.39	9.34	2.91
5,212.00	23.20	146.540	5,014.98	-490.82	-996.10	-357.33	9.97	9.81	4.94
5,244.00	26.08	147.810	5,044.06	-502.03	-988.88	-344.29	9.15	9.00	3.97
5,275.00	28.58	149.110	5,071.60	-514.17	-981.44	-330.45	8.29	8.06	4.19
5,307.00	31.03	148.870	5,099.37	-527.80	-973.25	-315.02	7.67	7.66	-0.75
5,339.00	33.69	146.390	5,126.39	-542.25	-964.07	-298.31	9.29	8.31	-7.75
5,370.00	36.42	145.130	5,151.77	-556.96	-954.05	-280.82	9.11	8.81	-4.06
5,402.00	38.87	144.900	5,177.11	-572.98	-942.84	-261.57	7.67	7.66	-0.72
5,433.00	41.84	144.020	5,200.73	-589.30	-931.17	-241.77	9.76	9.58	-2.84
5,465.00	44.90	142.760	5,223.99	-606.94	-918.06	-220.04	9.94	9.56	-3.94
5,497.00	47.56	143.650	5,246.12	-625.44	-904.23	-197.17	8.55	8.31	2.78
5,528.00	50.91	143.330	5,266.36	-644.31	-890.26	-173.95	10.83	10.81	-1.03
5,560.00	53.97	143.760	5,285.86	-664.71	-875.19	-148.87	9.62	9.56	1.34
5,591.00	56.68	144.710	5,303.50	-685.40	-860.29	-123.71	9.10	8.74	3.06
5,622.00	59.54	146.030	5,319.88	-707.05	-845.34	-97.82	9.91	9.23	4.26
5,654.00	61.91	146.960	5,335.52	-730.33	-829.94	-70.47	7.83	7.41	2.91
5,686.00	64.06	146.480	5,350.06	-754.16	-814.29	-42.56	6.85	6.72	-1.50
5,717.00	66.22	145.240	5,363.09	-777.44	-798.51	-14.94	7.86	6.97	-4.00
5,749.00	67.74	144.580	5,375.60	-801.53	-781.58	14.07	5.12	4.75	-2.06
5,781.00	68.75	142.860	5,387.46	-825.49	-763.99	43.45	5.91	3.16	-5.38
5,812.00	69.28	140.710	5,398.57	-848.23	-746.08	72.19	6.70	1.71	-6.94
5,844.00	69.77	139.000	5,409.76	-871.14	-726.76	102.06	5.24	1.53	-5.34
5,848.48	70.04	138.807	5,411.30	-874.32	-723.99	106.26	7.33	6.12	-4.30
FTP @ 5848.48 MD 5411.30 TVD									
5,875.00	71.67	137.680	5,420.00	-893.00	-707.31	131.27	7.33	6.13	-4.25
5,907.00	74.62	136.040	5,429.27	-915.34	-686.37	161.87	10.44	9.22	-5.13
5,939.00	76.93	135.490	5,437.14	-937.57	-664.73	192.89	7.41	7.22	-1.72
5,991.00	77.65	135.416	5,448.58	-973.72	-629.14	243.61	1.39	1.38	-0.14
9 5/8" Casing shoe @ 5991.00 MD 5448.58 TVD									
6,044.00	78.38	135.340	5,459.59	-1,010.62	-592.73	295.45	1.39	1.38	-0.14
6,138.00	82.34	135.330	5,475.32	-1,076.52	-527.60	388.11	4.21	4.21	-0.01
6,232.00	87.22	136.420	5,483.87	-1,143.69	-462.44	481.67	5.32	5.19	1.16
6,326.00	90.37	135.490	5,485.85	-1,211.23	-397.12	575.63	3.49	3.35	-0.99
6,420.00	89.83	135.430	5,485.69	-1,278.23	-331.18	669.62	0.58	-0.57	-0.06
6,514.00	89.39	134.660	5,486.33	-1,344.75	-264.77	763.62	0.94	-0.47	-0.82
6,608.00	89.17	135.250	5,487.51	-1,411.16	-198.26	857.61	0.67	-0.23	0.63
6,703.00	91.78	135.100	5,486.72	-1,478.53	-131.29	952.60	2.75	2.75	-0.16



Survey Report



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Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,797.00	91.10	135.510	5,484.36	-1,545.33	-65.20	1,046.57	0.84	-0.72	0.44
6,891.00	90.65	135.690	5,482.92	-1,612.48	0.56	1,140.55	0.52	-0.48	0.19
6,986.00	90.31	134.980	5,482.13	-1,680.05	67.34	1,235.55	0.83	-0.36	-0.75
7,080.00	90.19	135.270	5,481.72	-1,746.66	133.66	1,329.55	0.33	-0.13	0.31
7,174.00	89.67	135.360	5,481.83	-1,813.49	199.76	1,423.54	0.56	-0.55	0.10
7,268.00	88.78	135.100	5,483.10	-1,880.22	265.95	1,517.53	0.99	-0.95	-0.28
7,362.00	91.23	135.190	5,483.09	-1,946.85	332.25	1,611.53	2.61	2.61	0.10
7,456.00	91.00	135.250	5,481.26	-2,013.56	398.45	1,705.51	0.25	-0.24	0.06
7,550.00	90.11	135.310	5,480.35	-2,080.35	464.59	1,799.50	0.95	-0.95	0.06
7,644.00	91.18	133.810	5,479.30	-2,146.30	531.56	1,893.49	1.96	1.14	-1.60
7,738.00	90.21	133.390	5,478.16	-2,211.12	599.62	1,987.45	1.12	-1.03	-0.45
7,831.00	89.51	133.000	5,478.38	-2,274.77	667.42	2,080.41	0.86	-0.75	-0.42
7,925.00	88.97	132.620	5,479.63	-2,338.65	736.37	2,174.33	0.70	-0.57	-0.40
8,019.00	91.61	134.180	5,479.15	-2,403.22	804.66	2,268.28	3.26	2.81	1.66
8,112.00	91.64	133.810	5,476.52	-2,467.80	871.54	2,361.23	0.40	0.03	-0.40
8,206.00	91.80	132.720	5,473.69	-2,532.19	939.96	2,455.14	1.17	0.17	-1.16
8,300.00	92.31	135.350	5,470.32	-2,597.48	1,007.49	2,549.06	2.85	0.54	2.80
8,394.00	92.08	134.220	5,466.72	-2,663.65	1,074.15	2,642.99	1.23	-0.24	-1.20
8,489.00	92.28	134.440	5,463.11	-2,729.99	1,142.06	2,737.91	0.31	0.21	0.23
8,583.00	90.29	134.680	5,461.00	-2,795.92	1,209.02	2,831.88	2.13	-2.12	0.26
8,677.00	89.04	133.400	5,461.55	-2,861.26	1,276.58	2,925.86	1.90	-1.33	-1.36
8,772.00	88.70	136.550	5,463.43	-2,928.39	1,343.77	3,020.83	3.33	-0.36	3.32
8,866.00	88.44	135.770	5,465.77	-2,996.17	1,408.86	3,114.78	0.87	-0.28	-0.83
8,960.00	88.48	134.640	5,468.30	-3,062.85	1,475.06	3,208.75	1.20	0.04	-1.20
9,053.00	90.39	136.510	5,469.21	-3,129.26	1,540.15	3,301.73	2.87	2.05	2.01
9,148.00	90.28	135.790	5,468.66	-3,197.76	1,605.96	3,396.71	0.77	-0.12	-0.76
9,242.00	90.70	135.150	5,467.86	-3,264.77	1,671.88	3,490.70	0.81	0.45	-0.68
9,336.00	90.79	134.590	5,466.63	-3,331.08	1,738.49	3,584.69	0.60	0.10	-0.60
9,430.00	89.94	133.040	5,466.03	-3,396.16	1,806.32	3,678.67	1.88	-0.90	-1.65
9,524.00	91.22	133.960	5,465.08	-3,460.86	1,874.50	3,772.63	1.68	1.36	0.98
9,618.00	91.33	132.900	5,462.99	-3,525.46	1,942.74	3,866.57	1.13	0.12	-1.13
9,712.00	91.26	134.890	5,460.87	-3,590.62	2,010.46	3,960.52	2.12	-0.07	2.12
9,806.00	91.30	134.010	5,458.77	-3,656.43	2,077.54	4,054.49	0.94	0.04	-0.94
9,900.00	89.86	136.060	5,457.81	-3,722.93	2,143.96	4,148.48	2.66	-1.53	2.18
9,994.00	89.95	135.290	5,457.97	-3,790.17	2,209.64	4,242.47	0.82	0.10	-0.82
10,089.00	89.90	134.350	5,458.09	-3,857.14	2,277.03	4,337.47	0.99	-0.05	-0.99
10,183.00	89.31	137.230	5,458.74	-3,924.50	2,342.56	4,431.45	3.13	-0.63	3.06
10,277.00	88.82	136.910	5,460.28	-3,993.32	2,406.58	4,525.37	0.62	-0.52	-0.34
10,370.00	91.52	136.290	5,460.00	-4,060.89	2,470.47	4,618.33	2.98	2.90	-0.67
10,465.00	91.62	135.810	5,457.40	-4,129.25	2,536.38	4,713.28	0.52	0.11	-0.51
10,558.00	90.02	134.950	5,456.07	-4,195.44	2,601.69	4,806.26	1.95	-1.72	-0.92
10,652.00	90.05	134.530	5,456.01	-4,261.61	2,668.46	4,900.26	0.45	0.03	-0.45
10,746.00	90.11	134.230	5,455.88	-4,327.35	2,735.65	4,994.25	0.33	0.06	-0.32



Survey Report



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Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

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)
10,840.00	91.84	135.300	5,454.28	-4,393.53	2,802.37	5,088.23	2.16	1.84	1.14
10,935.00	91.54	134.910	5,451.48	-4,460.80	2,869.40	5,183.19	0.52	-0.32	-0.41
11,029.00	91.16	134.080	5,449.26	-4,526.66	2,936.43	5,277.16	0.97	-0.40	-0.88
11,123.00	91.29	136.130	5,447.25	-4,593.23	3,002.75	5,371.13	2.18	0.14	2.18
11,217.00	89.75	134.430	5,446.40	-4,660.02	3,068.89	5,465.12	2.44	-1.64	-1.81
11,312.00	88.48	133.330	5,447.87	-4,725.86	3,137.35	5,560.09	1.77	-1.34	-1.16
11,405.00	92.64	136.480	5,446.96	-4,791.48	3,203.20	5,653.05	5.61	4.47	3.39
11,499.00	90.08	135.810	5,444.73	-4,859.24	3,268.30	5,747.00	2.82	-2.72	-0.71
11,594.00	90.12	135.690	5,444.56	-4,927.29	3,334.59	5,841.99	0.13	0.04	-0.13
11,688.00	90.58	135.960	5,443.99	-4,994.70	3,400.09	5,935.98	0.57	0.49	0.29
11,782.00	90.33	135.350	5,443.24	-5,061.93	3,465.80	6,029.97	0.70	-0.27	-0.65
11,876.00	90.48	135.140	5,442.58	-5,128.68	3,531.98	6,123.97	0.27	0.16	-0.22
11,970.00	90.37	134.650	5,441.88	-5,195.02	3,598.57	6,217.96	0.53	-0.12	-0.52
12,064.00	89.91	133.870	5,441.65	-5,260.62	3,665.89	6,311.96	0.96	-0.49	-0.83
12,158.00	89.98	135.510	5,441.74	-5,326.73	3,732.71	6,405.95	1.75	0.07	1.74
12,251.00	89.48	134.400	5,442.18	-5,392.44	3,798.52	6,498.95	1.31	-0.54	-1.19
12,346.00	90.45	135.650	5,442.24	-5,459.64	3,865.66	6,593.94	1.67	1.02	1.32
12,440.00	90.09	134.250	5,441.79	-5,526.05	3,932.19	6,687.94	1.54	-0.38	-1.49
12,534.00	91.29	135.510	5,440.66	-5,592.37	3,998.79	6,781.93	1.85	1.28	1.34
12,628.00	90.93	134.510	5,438.84	-5,658.83	4,065.23	6,875.91	1.13	-0.38	-1.06
12,722.00	90.13	137.120	5,437.97	-5,726.23	4,130.74	6,969.89	2.90	-0.85	2.78
12,816.00	90.15	137.140	5,437.74	-5,795.12	4,194.69	7,063.82	0.03	0.02	0.02
12,910.00	89.96	136.630	5,437.65	-5,863.74	4,258.93	7,157.77	0.58	-0.20	-0.54
13,004.00	89.64	136.360	5,437.98	-5,931.92	4,323.64	7,251.74	0.45	-0.34	-0.29
13,098.00	89.60	135.980	5,438.60	-5,999.73	4,388.74	7,345.72	0.41	-0.04	-0.40
13,192.00	89.43	135.440	5,439.40	-6,067.01	4,454.38	7,439.71	0.60	-0.18	-0.57
13,285.00	89.91	135.500	5,439.93	-6,133.31	4,519.59	7,532.70	0.52	0.52	0.06
13,380.00	91.48	136.010	5,438.78	-6,201.36	4,585.87	7,627.68	1.74	1.65	0.54
Survey @ 13380.00 MD 5438.78 TVD									
13,447.60	91.48	136.010	5,437.04	-6,249.98	4,632.81	7,695.25	0.00	0.00	0.00
LTP @ 13447.60 MD 5437.03 TVD									
13,467.00	91.48	136.010	5,436.53	-6,263.93	4,646.28	7,714.64	0.00	0.00	0.00
330 ppd @ 13467.00 MD 5436.53 TVD									
13,504.00	91.48	136.010	5,435.58	-6,290.54	4,671.97	7,751.62	0.00	0.00	0.00
Survey proj. to 13504 MD 5435.58 TVD 271.7 FNL 218.2 FEL									



Survey Report



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Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
420.00	419.97	-4.55	0.50	MWD surveys
5,848.48	5,411.30	-874.32	-723.99	FTP @ 5848.48 MD 5411.30 TVD
5,991.00	5,448.58	-973.72	-629.14	9 5/8" Casing shoe @ 5991.00 MD 5448.58 TVD
13,380.00	5,438.78	-6,201.36	4,585.87	Survey @ 13380.00 MD 5438.78 TVD
13,447.60	5,437.04	-6,249.98	4,632.81	LTP @ 13447.60 MD 5437.03 TVD
13,467.00	5,436.53	-6,263.93	4,646.28	330 ppd @ 13467.00 MD 5436.53 TVD
13,504.00	5,435.58	-6,290.54	4,671.97	Survey proj. to 13504 MD 5435.58 TVD 271.7 FNL 218.2 FEL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Haynes Canyon Unit 428H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

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

Site	Haynes Canyon Unit (428,430,440 & 442)				
Site Position:		Northing:	1,912,025.28 usft	Latitude:	36.24866700
From:	Lat/Long	Easting:	1,282,353.75 usft	Longitude:	-107.46435800
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.72 °

Well	Haynes Canyon Unit 428H, Surf loc: 903 FSL 429 FWL Section 03-T23N-R06W					
Well Position	+N/-S	0.00 ft	Northing:	1,912,025.28 usft	Latitude:	36.24866700
	+E/-W	0.00 ft	Easting:	1,282,353.75 usft	Longitude:	-107.46435800
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,703.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/25/2024	8.39	62.75	49,072.42778390

Design	MWD surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	134.998	

Survey Program	Date	4/21/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
420.00	5,939.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
6,044.00	13,380.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
13,490.00	13,504.00	Projection (Original Hole)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.000	0.00	0.00	0.00	1,912,025.28	1,282,353.75	36.24866700	-107.46435800	
420.00	1.25	173.700	419.97	-4.55	0.50	1,912,020.73	1,282,354.26	36.24865451	-107.46435610	
MWD surveys										
514.00	1.24	168.290	513.94	-6.57	0.82	1,912,018.71	1,282,354.58	36.24864899	-107.46435494	
609.00	0.50	180.190	608.93	-7.99	1.03	1,912,017.29	1,282,354.78	36.24864509	-107.46435417	
704.00	0.70	156.170	703.93	-8.94	1.26	1,912,016.35	1,282,355.02	36.24864250	-107.46435334	
799.00	0.34	281.560	798.93	-9.41	1.22	1,912,015.87	1,282,354.97	36.24864120	-107.46435347	
893.00	0.40	304.070	892.92	-9.17	0.68	1,912,016.11	1,282,354.43	36.24864184	-107.46435532	
988.00	0.33	286.330	987.92	-8.91	0.14	1,912,016.38	1,282,353.89	36.24864254	-107.46435716	
1,083.00	1.15	266.260	1,082.91	-8.89	-1.08	1,912,016.39	1,282,352.68	36.24864254	-107.46436127	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Haynes Canyon Unit 428H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
1,174.00	2.82	255.180	1,173.86	-9.52	-4.15	1,912,015.76	1,282,349.60	36.24864070	-107.46437167	
1,264.00	6.57	250.950	1,263.54	-11.77	-11.16	1,912,013.51	1,282,342.59	36.24863428	-107.46439535	
1,355.00	9.84	245.440	1,353.60	-16.70	-23.16	1,912,008.58	1,282,330.60	36.24862032	-107.46443582	
1,445.00	12.16	247.190	1,441.94	-23.58	-38.89	1,912,001.71	1,282,314.86	36.24860091	-107.46448887	
1,535.00	14.50	245.130	1,529.51	-31.99	-57.85	1,911,993.29	1,282,295.90	36.24857714	-107.46455281	
1,627.00	16.69	246.140	1,618.11	-42.18	-80.39	1,911,983.10	1,282,273.37	36.24854838	-107.46462879	
1,715.00	18.64	245.190	1,701.96	-53.19	-104.71	1,911,972.09	1,282,249.04	36.24851730	-107.46471080	
1,806.00	19.80	245.360	1,787.89	-65.72	-131.92	1,911,959.56	1,282,221.83	36.24848195	-107.46480253	
1,896.00	21.27	245.840	1,872.17	-78.76	-160.67	1,911,946.52	1,282,193.08	36.24844515	-107.46489947	
1,990.00	22.41	247.440	1,959.42	-92.61	-192.78	1,911,932.67	1,282,160.97	36.24840600	-107.46500774	
2,085.00	22.26	247.010	2,047.29	-106.59	-226.07	1,911,918.70	1,282,127.69	36.24836647	-107.46512001	
2,180.00	21.63	246.160	2,135.41	-120.69	-258.65	1,911,904.59	1,282,095.11	36.24832661	-107.46522988	
2,275.00	20.71	244.320	2,224.00	-135.05	-289.80	1,911,890.23	1,282,063.95	36.24828611	-107.46533491	
2,369.00	19.49	247.270	2,312.27	-148.31	-319.25	1,911,876.97	1,282,034.51	36.24824867	-107.46543418	
2,464.00	20.08	248.560	2,401.66	-160.40	-349.04	1,911,864.89	1,282,004.71	36.24821445	-107.46553470	
2,559.00	19.65	248.680	2,491.01	-172.16	-379.10	1,911,853.12	1,281,974.65	36.24818109	-107.46563613	
2,654.00	20.71	249.660	2,580.18	-183.81	-409.73	1,911,841.47	1,281,944.02	36.24814805	-107.46573950	
2,749.00	19.44	248.060	2,669.41	-195.56	-440.15	1,911,829.73	1,281,913.60	36.24811474	-107.46584213	
2,843.00	20.08	249.920	2,757.87	-206.94	-469.82	1,911,818.34	1,281,883.94	36.24808245	-107.46594223	
2,938.00	21.43	249.030	2,846.70	-218.75	-501.34	1,911,806.53	1,281,852.41	36.24804892	-107.46604862	
3,033.00	20.27	248.590	2,935.48	-230.97	-532.87	1,911,794.31	1,281,820.89	36.24801428	-107.46615500	
3,128.00	21.10	248.270	3,024.36	-243.31	-564.07	1,911,781.97	1,281,789.68	36.24797932	-107.46626029	
3,222.00	19.10	246.140	3,112.63	-255.80	-593.86	1,911,769.49	1,281,759.90	36.24794399	-107.46636075	
3,317.00	20.55	247.210	3,202.00	-268.54	-623.45	1,911,756.74	1,281,730.31	36.24790797	-107.46646053	
3,412.00	22.80	248.490	3,290.27	-281.75	-655.95	1,911,743.53	1,281,697.81	36.24787056	-107.46657017	
3,507.00	22.37	245.360	3,377.99	-296.04	-689.51	1,911,729.24	1,281,664.25	36.24783017	-107.46668335	
3,601.00	21.73	242.380	3,465.12	-311.56	-721.18	1,911,713.72	1,281,632.57	36.24778644	-107.46679010	
3,696.00	21.32	247.370	3,553.50	-326.36	-752.71	1,911,698.92	1,281,601.05	36.24774470	-107.46689637	
3,791.00	22.18	247.470	3,641.74	-339.88	-785.21	1,911,685.40	1,281,568.54	36.24770646	-107.46700600	
3,886.00	21.27	247.340	3,729.99	-353.39	-817.68	1,911,671.89	1,281,536.08	36.24766823	-107.46711551	
3,980.00	22.43	247.930	3,817.23	-366.70	-850.03	1,911,658.59	1,281,503.72	36.24763057	-107.46722465	
4,075.00	22.43	247.020	3,905.05	-380.58	-883.51	1,911,644.70	1,281,470.24	36.24759128	-107.46733758	
4,170.00	19.44	246.230	3,993.76	-394.03	-914.67	1,911,631.25	1,281,439.08	36.24755326	-107.46744267	
4,264.00	17.17	244.300	4,083.00	-406.36	-941.50	1,911,618.93	1,281,412.26	36.24751849	-107.46753308	
4,359.00	14.18	242.750	4,174.46	-417.77	-964.48	1,911,607.51	1,281,389.27	36.24748635	-107.46761053	
4,454.00	12.39	242.270	4,266.91	-427.84	-983.85	1,911,597.44	1,281,369.91	36.24745802	-107.46767578	
4,549.00	9.61	241.120	4,360.16	-436.41	-999.82	1,911,588.87	1,281,353.94	36.24743392	-107.46772955	
4,644.00	6.52	233.230	4,454.21	-443.47	-1,011.08	1,911,581.81	1,281,342.67	36.24741414	-107.46776746	
4,739.00	4.86	236.470	4,548.74	-448.93	-1,018.76	1,911,576.36	1,281,335.00	36.24739890	-107.46779325	
4,834.00	2.38	241.960	4,643.54	-452.08	-1,023.86	1,911,573.21	1,281,329.90	36.24739007	-107.46781040	
4,928.00	0.50	53.960	4,737.52	-452.75	-1,025.25	1,911,572.53	1,281,328.51	36.24738817	-107.46781508	
4,960.00	0.54	40.490	4,769.52	-452.56	-1,025.04	1,911,572.73	1,281,328.72	36.24738872	-107.46781438	
4,992.00	1.69	124.570	4,801.51	-452.71	-1,024.55	1,911,572.57	1,281,329.21	36.24738831	-107.46781272	
5,023.00	4.65	139.190	4,832.46	-453.92	-1,023.35	1,911,571.36	1,281,330.40	36.24738503	-107.46780861	
5,055.00	7.99	140.910	4,864.27	-456.63	-1,021.10	1,911,568.65	1,281,332.65	36.24737767	-107.46780086	
5,086.00	11.36	140.860	4,894.82	-460.67	-1,017.81	1,911,564.61	1,281,335.94	36.24736668	-107.46778954	
5,117.00	14.14	142.880	4,925.05	-466.06	-1,013.60	1,911,559.22	1,281,340.15	36.24735203	-107.46777503	
5,149.00	17.17	144.080	4,955.86	-473.00	-1,008.47	1,911,552.28	1,281,345.28	36.24733313	-107.46775734	
5,181.00	20.16	145.010	4,986.18	-481.35	-1,002.54	1,911,543.94	1,281,351.22	36.24731042	-107.46773686	
5,212.00	23.20	146.540	5,014.98	-490.82	-996.10	1,911,534.46	1,281,357.65	36.24728463	-107.46771465	
5,244.00	26.08	147.810	5,044.06	-502.03	-988.88	1,911,523.25	1,281,364.87	36.24725408	-107.46768968	
5,275.00	28.58	149.110	5,071.60	-514.17	-981.44	1,911,511.12	1,281,372.31	36.24722101	-107.46766394	
5,307.00	31.03	148.870	5,099.37	-527.80	-973.25	1,911,497.49	1,281,380.51	36.24718386	-107.46763557	
5,339.00	33.69	146.390	5,126.39	-542.25	-964.07	1,911,483.03	1,281,389.69	36.24714448	-107.46760383	
5,370.00	36.42	145.130	5,151.77	-556.96	-954.05	1,911,468.32	1,281,399.71	36.24710441	-107.46756922	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Haynes Canyon Unit 428H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,402.00	38.87	144.900	5,177.11	-572.98	-942.84	1,911,452.31	1,281,410.91	36.24706082	-107.46753054
5,433.00	41.84	144.020	5,200.73	-589.30	-931.17	1,911,435.98	1,281,422.59	36.24701638	-107.46749028
5,465.00	44.90	142.760	5,223.99	-606.94	-918.06	1,911,418.35	1,281,435.69	36.24696840	-107.46744508
5,497.00	47.56	143.650	5,246.12	-625.44	-904.23	1,911,399.84	1,281,449.53	36.24691806	-107.46739738
5,528.00	50.91	143.330	5,266.36	-644.31	-890.26	1,911,380.97	1,281,463.50	36.24686672	-107.46734921
5,560.00	53.97	143.760	5,285.86	-664.71	-875.19	1,911,360.57	1,281,478.57	36.24681121	-107.46729725
5,591.00	56.68	144.710	5,303.50	-685.40	-860.29	1,911,339.89	1,281,493.46	36.24675491	-107.46724586
5,622.00	59.54	146.030	5,319.88	-707.05	-845.34	1,911,318.23	1,281,508.41	36.24669594	-107.46719424
5,654.00	61.91	146.960	5,335.52	-730.33	-829.94	1,911,294.95	1,281,523.82	36.24663255	-107.46714102
5,686.00	64.06	146.480	5,350.06	-754.16	-814.29	1,911,271.12	1,281,539.46	36.24656764	-107.46708696
5,717.00	66.22	145.240	5,363.09	-777.44	-798.51	1,911,247.85	1,281,555.25	36.24650425	-107.46703244
5,749.00	67.74	144.580	5,375.60	-801.53	-781.58	1,911,223.75	1,281,572.18	36.24643865	-107.46697401
5,781.00	68.75	142.860	5,387.46	-825.49	-763.99	1,911,199.79	1,281,589.77	36.24637346	-107.46691336
5,812.00	69.28	140.710	5,398.57	-848.23	-746.08	1,911,177.05	1,281,607.67	36.24631163	-107.46685168
5,844.00	69.77	139.000	5,409.76	-871.14	-726.76	1,911,154.14	1,281,627.00	36.24624936	-107.46678517
5,848.48	70.04	138.807	5,411.30	-874.32	-723.99	1,911,150.97	1,281,629.76	36.24624074	-107.46677566
FTP @ 5848.48 MD 5411.30 TVD									
5,875.00	71.67	137.680	5,420.00	-893.00	-707.31	1,911,132.28	1,281,646.45	36.24619000	-107.46671829
5,907.00	74.62	136.040	5,429.27	-915.34	-686.37	1,911,109.94	1,281,667.39	36.24612936	-107.46664634
5,939.00	76.93	135.490	5,437.14	-937.57	-664.73	1,911,087.72	1,281,689.03	36.24606907	-107.46657202
5,991.00	77.65	135.416	5,448.58	-973.72	-629.14	1,911,051.57	1,281,724.61	36.24597101	-107.46644983
9 5/8" Casing shoe @ 5991.00 MD 5448.58 TVD									
6,044.00	78.38	135.340	5,459.59	-1,010.62	-592.73	1,911,014.67	1,281,761.03	36.24587092	-107.46632479
6,138.00	82.34	135.330	5,475.32	-1,076.52	-527.60	1,910,948.77	1,281,826.16	36.24569217	-107.46610114
6,232.00	87.22	136.420	5,483.87	-1,143.69	-462.44	1,910,881.59	1,281,891.31	36.24550992	-107.46587738
6,326.00	90.37	135.490	5,485.85	-1,211.23	-397.12	1,910,814.05	1,281,956.64	36.24532667	-107.46565300
6,420.00	89.83	135.430	5,485.69	-1,278.23	-331.18	1,910,747.05	1,282,022.57	36.24514493	-107.46542660
6,514.00	89.39	134.660	5,486.33	-1,344.75	-264.77	1,910,680.53	1,282,088.98	36.24496452	-107.46519859
6,608.00	89.17	135.250	5,487.51	-1,411.16	-198.26	1,910,614.12	1,282,155.50	36.24478442	-107.46497024
6,703.00	91.78	135.100	5,486.72	-1,478.53	-131.29	1,910,546.75	1,282,222.46	36.24460168	-107.46474034
6,797.00	91.10	135.510	5,484.36	-1,545.33	-65.20	1,910,479.95	1,282,288.55	36.24442050	-107.46451341
6,891.00	90.65	135.690	5,482.92	-1,612.48	0.56	1,910,412.80	1,282,354.31	36.24423832	-107.46428759
6,986.00	90.31	134.980	5,482.13	-1,680.05	67.34	1,910,345.24	1,282,421.09	36.24405506	-107.46405830
7,080.00	90.19	135.270	5,481.72	-1,746.66	133.66	1,910,278.63	1,282,487.41	36.24387439	-107.46383060
7,174.00	89.67	135.360	5,481.83	-1,813.49	199.76	1,910,211.79	1,282,553.51	36.24369311	-107.46360364
7,268.00	88.78	135.100	5,483.10	-1,880.22	265.95	1,910,145.07	1,282,619.71	36.24351212	-107.46337638
7,362.00	91.23	135.190	5,483.09	-1,946.85	332.25	1,910,078.44	1,282,686.00	36.24333140	-107.46314877
7,456.00	91.00	135.250	5,481.26	-2,013.56	398.45	1,910,011.73	1,282,752.20	36.24315045	-107.46292149
7,550.00	90.11	135.310	5,480.35	-2,080.35	464.59	1,909,944.94	1,282,818.34	36.24296929	-107.46269441
7,644.00	91.18	133.810	5,479.30	-2,146.30	531.56	1,909,878.99	1,282,885.31	36.24279047	-107.46246455
7,738.00	90.21	133.390	5,478.16	-2,211.12	599.62	1,909,814.17	1,282,953.37	36.24261478	-107.46223102
7,831.00	89.51	133.000	5,478.38	-2,274.77	667.42	1,909,750.51	1,283,021.17	36.24244228	-107.46199845
7,925.00	88.97	132.620	5,479.63	-2,338.65	736.37	1,909,686.64	1,283,090.13	36.24226922	-107.46176195
8,019.00	91.61	134.180	5,479.15	-2,403.22	804.66	1,909,622.06	1,283,158.41	36.24209420	-107.46152768
8,112.00	91.64	133.810	5,476.52	-2,467.80	871.54	1,909,557.49	1,283,225.29	36.24191915	-107.46129820
8,206.00	91.80	132.720	5,473.69	-2,532.19	939.96	1,909,493.10	1,283,293.71	36.24174464	-107.46106350
8,300.00	92.31	135.350	5,470.32	-2,597.48	1,007.49	1,909,427.81	1,283,361.24	36.24156763	-107.46083178
8,394.00	92.08	134.220	5,466.72	-2,663.65	1,074.15	1,909,361.64	1,283,427.91	36.24138819	-107.46060294
8,489.00	92.28	134.440	5,463.11	-2,729.99	1,142.06	1,909,295.30	1,283,495.81	36.24120832	-107.46036990
8,583.00	90.29	134.680	5,461.00	-2,795.92	1,209.02	1,909,229.37	1,283,562.77	36.24102953	-107.46014010
8,677.00	89.04	133.400	5,461.55	-2,861.26	1,276.58	1,909,164.02	1,283,630.34	36.24085238	-107.45990824
8,772.00	88.70	136.550	5,463.43	-2,928.39	1,343.77	1,909,096.90	1,283,697.52	36.24067033	-107.45967762
8,866.00	88.44	135.770	5,465.77	-2,996.17	1,408.86	1,909,029.12	1,283,762.61	36.24048641	-107.45945408
8,960.00	88.48	134.640	5,468.30	-3,062.85	1,475.06	1,908,962.44	1,283,828.81	36.24030554	-107.45922679
9,053.00	90.39	136.510	5,469.21	-3,129.26	1,540.15	1,908,896.03	1,283,893.90	36.24012538	-107.45900331



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Haynes Canyon Unit 428H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,148.00	90.28	135.790	5,468.66	-3,197.76	1,605.96	1,908,827.53	1,283,959.71	36.23993947	-107.45877728
9,242.00	90.70	135.150	5,467.86	-3,264.77	1,671.88	1,908,760.52	1,284,025.63	36.23975769	-107.45855096
9,336.00	90.79	134.590	5,466.63	-3,331.08	1,738.49	1,908,694.21	1,284,092.24	36.23957785	-107.45832231
9,430.00	89.94	133.040	5,466.03	-3,396.16	1,806.32	1,908,629.13	1,284,160.07	36.23940144	-107.45808961
9,524.00	91.22	133.960	5,465.08	-3,460.86	1,874.50	1,908,564.43	1,284,228.25	36.23922608	-107.45785572
9,618.00	91.33	132.900	5,462.99	-3,525.46	1,942.74	1,908,499.83	1,284,296.49	36.23905097	-107.45762161
9,712.00	91.26	134.890	5,460.87	-3,590.62	2,010.46	1,908,434.67	1,284,364.21	36.23887434	-107.45738928
9,806.00	91.30	134.010	5,458.77	-3,656.43	2,077.54	1,908,368.86	1,284,431.29	36.23869589	-107.45715905
9,900.00	89.86	136.060	5,457.81	-3,722.93	2,143.96	1,908,302.36	1,284,497.71	36.23851552	-107.45693106
9,994.00	89.95	135.290	5,457.97	-3,790.17	2,209.64	1,908,235.12	1,284,563.39	36.23833308	-107.45670555
10,089.00	89.90	134.350	5,458.09	-3,857.14	2,277.03	1,908,168.15	1,284,630.78	36.23815147	-107.45647426
10,183.00	89.31	137.230	5,458.74	-3,924.50	2,342.56	1,908,100.79	1,284,696.31	36.23796868	-107.45624923
10,277.00	88.82	136.910	5,460.28	-3,993.32	2,406.58	1,908,031.97	1,284,760.33	36.23778186	-107.45602930
10,370.00	91.52	136.290	5,460.00	-4,060.89	2,470.47	1,907,964.41	1,284,824.22	36.23759848	-107.45580983
10,465.00	91.62	135.810	5,457.40	-4,129.25	2,536.38	1,907,896.04	1,284,890.13	36.23741295	-107.45558350
10,558.00	90.02	134.950	5,456.07	-4,195.44	2,601.69	1,907,829.85	1,284,955.44	36.23723340	-107.45535927
10,652.00	90.05	134.530	5,456.01	-4,261.61	2,668.46	1,907,763.69	1,285,022.21	36.23705396	-107.45513012
10,746.00	90.11	134.230	5,455.88	-4,327.35	2,735.65	1,907,697.94	1,285,089.39	36.23687568	-107.45489958
10,840.00	91.84	135.300	5,454.28	-4,393.53	2,802.37	1,907,631.76	1,285,156.12	36.23669619	-107.45467056
10,935.00	91.54	134.910	5,451.48	-4,460.80	2,869.40	1,907,564.49	1,285,223.14	36.23651373	-107.45444051
11,029.00	91.16	134.080	5,449.26	-4,526.66	2,936.43	1,907,498.63	1,285,290.18	36.23633513	-107.45421048
11,123.00	91.29	136.130	5,447.25	-4,593.23	3,002.75	1,907,432.06	1,285,356.50	36.23615455	-107.45398280
11,217.00	89.75	134.430	5,446.40	-4,660.02	3,068.89	1,907,365.27	1,285,422.64	36.23597338	-107.45375578
11,312.00	88.48	133.330	5,447.87	-4,725.86	3,137.35	1,907,299.44	1,285,491.10	36.23579489	-107.45352089
11,405.00	92.64	136.480	5,446.96	-4,791.48	3,203.20	1,907,233.81	1,285,556.95	36.23561689	-107.45329490
11,499.00	90.08	135.810	5,444.73	-4,859.24	3,268.30	1,907,166.05	1,285,622.05	36.23543302	-107.45307134
11,594.00	90.12	135.690	5,444.56	-4,927.29	3,334.59	1,907,098.00	1,285,688.34	36.23524838	-107.45284374
11,688.00	90.58	135.960	5,443.99	-4,994.70	3,400.09	1,907,030.59	1,285,753.84	36.23506545	-107.45261884
11,782.00	90.33	135.350	5,443.24	-5,061.93	3,465.80	1,906,963.37	1,285,819.54	36.23488307	-107.45239327
11,876.00	90.48	135.140	5,442.58	-5,128.68	3,531.98	1,906,896.62	1,285,885.72	36.23470199	-107.45216609
11,970.00	90.37	134.650	5,441.88	-5,195.02	3,598.57	1,906,830.27	1,285,952.31	36.23452204	-107.45193756
12,064.00	89.91	133.870	5,441.65	-5,260.62	3,665.89	1,906,764.67	1,286,019.63	36.23434416	-107.45170657
12,158.00	89.98	135.510	5,441.74	-5,326.73	3,732.71	1,906,698.57	1,286,086.46	36.23416487	-107.45147725
12,251.00	89.48	134.400	5,442.18	-5,392.44	3,798.52	1,906,632.86	1,286,152.27	36.23398665	-107.45125138
12,346.00	90.45	135.650	5,442.24	-5,459.64	3,865.66	1,906,565.66	1,286,219.41	36.23380436	-107.45102093
12,440.00	90.09	134.250	5,441.79	-5,526.05	3,932.19	1,906,499.25	1,286,285.93	36.23362423	-107.45079262
12,534.00	91.29	135.510	5,440.66	-5,592.37	3,998.79	1,906,432.93	1,286,352.53	36.23344435	-107.45056405
12,628.00	90.93	134.510	5,438.84	-5,658.83	4,065.23	1,906,366.46	1,286,418.98	36.23326405	-107.45033601
12,722.00	90.13	137.120	5,437.97	-5,726.23	4,130.74	1,906,299.06	1,286,484.48	36.23308117	-107.45011110
12,816.00	90.15	137.140	5,437.74	-5,795.12	4,194.69	1,906,230.17	1,286,548.43	36.23289413	-107.44989141
12,910.00	89.96	136.630	5,437.65	-5,863.74	4,258.93	1,906,161.55	1,286,612.68	36.23270786	-107.44967073
13,004.00	89.64	136.360	5,437.98	-5,931.92	4,323.64	1,906,093.37	1,286,677.39	36.23252280	-107.44944849
13,098.00	89.60	135.980	5,438.60	-5,999.73	4,388.74	1,906,025.57	1,286,742.49	36.23233877	-107.44922497
13,192.00	89.43	135.440	5,439.40	-6,067.01	4,454.38	1,905,958.28	1,286,808.12	36.23215621	-107.44899963
13,285.00	89.91	135.500	5,439.93	-6,133.31	4,519.59	1,905,891.98	1,286,873.34	36.23197634	-107.44877576
13,380.00	91.48	136.010	5,438.78	-6,201.36	4,585.87	1,905,823.94	1,286,939.62	36.23179169	-107.44854822
Survey @ 13380.00 MD 5438.78 TVD									
13,447.60	91.48	136.010	5,437.04	-6,249.98	4,632.81	1,905,775.32	1,286,986.55	36.23165975	-107.44838707
LTP @ 13447.60 MD 5437.03 TVD									
13,467.00	91.48	136.010	5,436.53	-6,263.93	4,646.28	1,905,761.37	1,287,000.02	36.23162189	-107.44834083
330 ppd @ 13467.00 MD 5436.53 TVD									
13,504.00	91.48	136.010	5,435.58	-6,290.54	4,671.97	1,905,734.75	1,287,025.71	36.23154967	-107.44825262
Survey proj. to 13504 MD 5435.58 TVD 271.7 FNL 218.2 FEL									



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Haynes Canyon Unit 428H
Project:	Rio Arriba County, New Mexico NAD83 NM C	TVD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Site:	Haynes Canyon Unit (428,430,440 & 442)	MD Reference:	RKB=6703+25 @ 6728.00ft (Aztec 1000)
Well:	Haynes Canyon Unit 428H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_Mar1724_v17

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
420.00	419.97	-4.55	0.50	MWD surveys
5,848.48	5,411.30	-874.32	-723.99	FTP @ 5848.48 MD 5411.30 TVD
5,991.00	5,448.58	-973.72	-629.14	9 5/8" Casing shoe @ 5991.00 MD 5448.58 TVD
13,380.00	5,438.78	-6,201.36	4,585.87	Survey @ 13380.00 MD 5438.78 TVD
13,447.60	5,437.04	-6,249.98	4,632.81	LTP @ 13447.60 MD 5437.03 TVD
13,467.00	5,436.53	-6,263.93	4,646.28	330 ppd @ 13467.00 MD 5436.53 TVD
13,504.00	5,435.58	-6,290.54	4,671.97	Survey proj. to 13504 MD 5435.58 TVD 271.7 FNL 218.2 FEL

WELL NAME: Haynes Canyon Unit 428H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Gallup formation

API Number: 30-039-31443
AFE Number: Not yet assigned
ER Well Number: Not yet assigned

State: New Mexico
County: Rio Arriba

Surface Elev.: 6,703 ft ASL (GL) 6,728 ft ASL (KB)
Surface Location: 3-23-6 Sec-Twn- Rng 903 ft FSL 429 ft FWL
BH Location: 15-23-6 Sec-Twn- Rng 271 ft FNL 218 ft FEL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:
South on US Hwy 550 for 53.8 miles to MM 97.6; Left (North) on CR #379 (State Hwy 403) for 1.3 miles to fork; Right (North) remaining on CR #379 for 1.5 miles to location access on left; Haynes Canyon Unit 428H Pad. From East to West 430H, 428H, 442H, 440H).

QUICK REFERENCE	
Sur TD (MD)	365 ft
Int TD (MD)	6,001 ft
KOP (MD)	5,149 ft
KOP (TVD)	4,925 ft
Target (TVD)	5,463 ft
Curve BUR	10 °/100 ft
POE (MD)	5,849 ft
TD (MD)	13,504 ft
Lat Len (ft)	7,659 ft

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	1,403	1,403
Kirtland	1,503	1,503
Fruitland	1,728	1,732
Pictured Cliffs	1,963	1,977
Lewis	2,113	2,340
Chacra	2,408	2,463
Cliff House	3,518	3,679
Menefee	3,524	3,685
Point Lookout	4,225	4,493
Mancos	4,500	4,724
Gallup (MNCS_A)	4,840	5,064

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	365	9.625	36	K-55	STC	0	360
Intermediate	8.750	6,001	7	26.0	K-55	LTC	0	5,991
Production	6.125	13,504	4.500	11.6	P-110	BTC	5,841	13,489

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.6	1.61	7.41	0.3132	50%	0	109
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.06	0.1668	70%	0	565
Inter. (Tail)	Type III	13.5	1.71	8.88	0.1503	20%	4,284	151
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.520	7.54	0.0873	30%	5,841	622

COMPLETION / PRODUCTION SUMMARY:

Frac: Perf, Plug & Frac 38 stages: 3 spf. 0.30" diameter from 5923' to 13428' MD (5430' to 5437' TVD)
Flowback: otal of 1596 open holes. As pumped: 121,971 bbls of fluid. 9,914,518 lbs of proppant.
Production: Produce through production tubing via gas-lift into permanent production and storage facilities



Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.	NMNM28737
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. Haynes Canyon Unit/NMNM105770949
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. HAYNES CANYON UNIT/428H
2. Name of Operator ENDURING RESOURCES LLC		9. API Well No. 3003931443
3a. Address 200 ENERGY COURT, FARMINGTON, NM 8740	3b. Phone No. (include area code) (505) 497-8574	10. Field and Pool or Exploratory Area COUNSELOR GALLUP-DAKOTA/COUNSELORS GAL
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 3/T23N/R6W/NMP		11. Country or Parish, State RIO ARRIBA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☒ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate 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 perfonned 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 recompletion 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.)

Completion Sundry

5/20/24: NU BOPE. Full function PT L750 H9500 (30min), all tests good & recorded on chart.

5/21/24: Open well, increase pressure, Frac Sleeve opened at 7173 psi.

5/22/24 to 6/8/24: Perf, Plug & Frac 38 stages: 3 spf. 0.30 diameter from 5923 to 13428 MD (5430 to 5437 TVD). Total of 1596 open holes. As pumped: 121,971 bbls of fluid. 9,914,518 lbs of proppant.

6/9/24: MIRU AWS 812. NU BOP. Full function PT to L400 H4500 (30min) test good & recorded on chart.

6/10/24 to 6/12/24: TIH. Drill out plugs. TOH.

6/13/24-6/14/24: RIH with production string. Land 189 jts of 2.875 6.5# J55 STC tubing. EOT: 6254. Eight GLVs set. POH. ND BOPE. NU production tree & PT to 5k (30min) test good & recorded on chart. Turn well over to production. Rig released on 6/14/24.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) HEATHER HUNTINGTON / Ph: (505) 636-9751	Title Permitting Technician
Signature (Electronic Submission)	Date 06/18/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by KENNETH G RENNICK / Ph: (505) 564-7742 / Accepted	Title Petroleum Engineer	Date 06/18/2024
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 FARMINGTON	

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)



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print

07/30/2024

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 3 23N 6W	Well Name HAYNES CANYON UNIT County RIO ARRIBA	Well Number 428H State NM	US Well Number 3003931443 Lease Number(s) NMNM28737
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Haynes Canyon Unit	Agreement Number(s) NMNM105770949
Allottee/Tribe Name	Well Pad Name Haynes Canyon Unit	Well Pad Number 428H	APD ID 10400093962

Section 1 - General

Well Completion Report Id: 92365**Submission Date:** 07-23-2024**BLM Office:** Farmington Field Office**User:** HEATHER HUNTINGTON**Title:** Permitting Technician**Federal/Indian:** FEDERAL**Lease Number:** NMNM28737**Lease Acres:****Agreement in place?:** YES**Federal or Indian Agreement:** FEDERAL**Agreement Number:****Agreement Name:** Haynes Canyon**Additional Information****Keep this Well Completion Report confidential?:** YES**APD Operator:** ENDURING
RESOURCES LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:** COUNSELORS GALLUP**Field Name:** COUNSELOR GALLUP-**Well Type:** OIL WELL**Spud Date:** 03-04-2024**Date Total Measured Depth Reached:** 04-21-2024**Drill & Abandon or Ready To Produce:** READY TO PRODUCE**Well Class:** HORIZONTAL

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 3 23N 6W	Well Name HAYNES CANYON UNIT	Well Number 428H	US Well Number 3003931443
	County RIO ARRIBA	State NM	Lease Number(s) NMNM28737
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Haynes Canyon Unit	Agreement Number(s) NMNM105770949
Allottee/Tribe Name	Well Pad Name Haynes Canyon Unit	Well Pad Number 428H	APD ID 10400093962

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
NACIMIENTO	SANDSTONE, SILTSTONE		6728	0	0	USEABLE WATER	
OJO ALAMO	SANDSTONE, SILTSTONE		5325	1403	1403	USEABLE WATER	
KIRTLAND	SANDSTONE, SHALE, SILTSTONE		5225	1503	1503	OTHER	non-potable water
FRUITLAND	COAL, SANDSTONE, SHALE, SILTSTONE		5000	1728	1732	NATURAL GAS, OTHER	non-potable water
PICTURED CLIFFS	SANDSTONE, SILTSTONE		4765	1963	1977	NATURAL GAS, OTHER	non-potable water
LEWIS	OTHER, SANDSTONE, SILTSTONE	Huarfonito Bentonite is in the middle of the interval	4615	2113	2340	NATURAL GAS, OTHER	non-potable water
CHACRA	SANDSTONE, SILTSTONE		4320	2408	2463	NATURAL GAS, OTHER	non-potable water
CLIFFHOUSE	COAL, SANDSTONE, SHALE, SILTSTONE		3210	3518	3679	NATURAL GAS, OTHER	non-potable water
MENEFEE	SANDSTONE		3204	3524	3685	NATURAL GAS, OTHER	non-potable water
POINT LOOKOUT	SANDSTONE, SHALE		2503	4225	4493	NATURAL GAS, OTHER	non-potable water
MANCOS	SHALE, SILTSTONE		2228	4500	4724	NATURAL GAS, OIL	
GALLUP	SHALE, SILTSTONE		1888	4840	5064	NATURAL GAS, OIL	

Completion and Completed

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 3 23N 6W	Well Name HAYNES CANYON UNIT	Well Number 428H	US Well Number 3003931443
	County RIO ARRIBA	State NM	Lease Number(s) NMNM28737
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Haynes Canyon Unit	Agreement Number(s) NMNM105770949
Allottee/Tribe Name	Well Pad Name Haynes Canyon Unit	Well Pad Number 428H	APD ID 10400093962

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM105770949	NMNM28737	NEW		POW	06-14-2024	06-15-2024	GALLUP	5923	13428	Y	.3	1596	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	121971	9914518	

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1			GAS LIFT		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 3 23N 6W	Well Name HAYNES CANYON UNIT	Well Number 428H	US Well Number 3003931443
	County RIO ARRIBA	State NM	Lease Number(s) NMNM28737
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Haynes Canyon Unit	Agreement Number(s) NMNM105770949
Allottee/Tribe Name	Well Pad Name Haynes Canyon Unit	Well Pad Number 428H	APD ID 10400093962

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	06/18/2024	24	720	624	768	866	64/64	222		797

Well Location

Survey Type: RECTANGULAR

Survey Number: 15269

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.248667	-107.464358	6703	N/A	N/A	FEDERAL	NMNM28733				903	FSL	429	FWL	23N	6W	3	SWSW
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.248667	-107.464358	6343	360	360	FEDERAL	NMNM28733				903	FSL	429	FWL	23N	6W	3	SWSW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.232274	-107.449161	1266	13478	5437	FEDERAL	NMNM118127				0	FNL	475	FEL	23N	6W	15	NENE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.2455	-107.465841	1266	13478	5437	FEDERAL	NMNM028737				231	FNL	0	FWL	23N	6W	10	NWNW

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 3 23N 6W	Well Name HAYNES CANYON UNIT	Well Number 428H	US Well Number 3003931443
	County RIO ARRIBA	State NM	Lease Number(s) NMNM28737
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Haynes Canyon Unit	Agreement Number(s) NMNM105770949
Allottee/Tribe Name	Well Pad Name Haynes Canyon Unit	Well Pad Number 428H	APD ID 10400093962

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.246241	-107.466776	1266	13478	5437	FEDERAL	NMNM130875				30	FSL	276	FEL	23N	6W	4	SESE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.2455	-107.465841	1266	13478	5437	FEDERAL	NMNM28736				231	FNL	0	FEL	23N	6W	9	NENE
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.23166	-107.448387	1267	13489	5436	FEDERAL	NMNM118127				230	FNL	256	FEL	23N	6W	15	NENE
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.23155	-107.448253	1266	13504	5437	FEDERAL	NMNM118127	5437	13478		271	FNL	218	FEL	23N	6W	15	NENE

Casing, Liner and Tubing

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 3 23N 6W	Well Name HAYNES CANYON UNIT	Well Number 428H	US Well Number 3003931443
	County RIO ARRIBA	State NM	Lease Number(s) NMNM28737
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Haynes Canyon Unit	Agreement Number(s) NMNM105770949
Allottee/Tribe Name	Well Pad Name Haynes Canyon Unit	Well Pad Number 428H	APD ID 10400093962

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	12.25	0	360	9.625	36	J-55		BUTT		
00	INTERMEDIATE	8.75	0	5991	7.0	26	J-55		LT&C		
00	LINER	6.125	5841	13489	4.5	11.6	P-110		LT&C		

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		Type III	109	1.61	0					31.3
00	INTERMEDIATE		90:10 Type III:POZ	565	2.14	0	Type III	151	1.71	4284	261.3
00	LINER		G:POZ Blend	622	1.52	5841					168.4

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		6254	5869	6	J-55		ST&C	

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 3 23N 6W	Well Name HAYNES CANYON UNIT County RIO ARRIBA	Well Number 428H State NM	US Well Number 3003931443 Lease Number(s) NMNM28737
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Haynes Canyon Unit	Agreement Number(s) NMNM105770949
Allottee/Tribe Name	Well Pad Name Haynes Canyon Unit	Well Pad Number 428H	APD ID 10400093962

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	NO	NO	NO	YES	NO	YES

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. 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 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 Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: ENDURING RESOURCES LLC

Signed By: HEATHER HUNTINGTON	Title: Permitting Technician	Signed on: 07/29/2024
--------------------------------------	-------------------------------------	------------------------------

Street Address: 200 ENERGY COURT

City: FARMINGTON	State: NM	Zip: 87401
-------------------------	------------------	-------------------

Phone: (505)636-9751

Email address: HHUNTINGTON@ENDURINGRESOURCES.COM

Field

Representative Name:

Street Address:

City:	State:	Zip:
--------------	---------------	-------------

Phone:	Extension:
---------------	-------------------

Email address:

Attachments

Operator Name ENDURING RESOURCES LLC SHL SWSW Sec 3 23N 6W	Well Name HAYNES CANYON UNIT	Well Number 428H	US Well Number 3003931443
	County RIO ARRIBA	State NM	Lease Number(s) NMNM28737
Well Type OIL WELL	Well Status Drilling Well	Agreement Name Haynes Canyon Unit	Agreement Number(s) NMNM105770949
Allottee/Tribe Name	Well Pad Name Haynes Canyon Unit	Well Pad Number 428H	APD ID 10400093962

Haynes_Canyon_Unit_428H_PVA_final_20240723105958.pdf

Haynes_Canyon_Unit__428H_As_Drilled_C_102_Plat___SIGNED_20240723111431.pdf

CBL_HAYNES_CANYON_UNIT_428_H_20240723112044.pdf

WBD_428H_07.23.24_20240729150657.pdf

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

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

ACKNOWLEDGMENTS

Action 368620

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 368620
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 368620

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 368620
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	8/15/2024