

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enduring Resources IV LLC. 200 Energy Court Farmington NM 87401		² OGRID Number 372286	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-043-21280	⁵ Pool Name LYBROOK GALLUP		⁶ Pool Code 42289
⁷ Property Code 333197	⁸ Property Name S LYBROOK UNIT		⁹ Well Number #344H

II. ¹⁰ Surface Location

UL or lot no. P	Section 2	Township 22N	Range 7W	Lot Idn	Feet from the 1067'	North/South Line South	Feet from the 357'	East/West line East	County Sandoval
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¹¹ Bottom Hole Location

UL or lot no. M	Section 35	Township 23N	Range 7W	Lot Idn	Feet from the 1173'	North/South line South	Feet from the 323'	East/West line West	County Sandoval
¹² Lse Code F	¹³ Producing Method Code		¹⁴ Gas Connection Date 10/24/2022		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

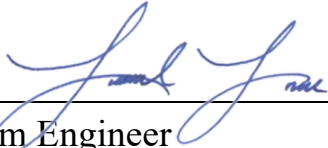
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address		²⁰ O/G/W
248440	WESTERN REFINING COMPANY, LLC		O
373888	HARVEST FOUR CORNERS. LLC		G

IV. Well Completion Data

²¹ Spud Date 5/20/2022	²² Ready Date 10/24/2022	²³ TD 12142' MD 5260' TVD	²⁴ PBDT 12024' MD 5259' TVD	²⁵ Perforations ~ 5616' - 12002' MD ~ 5182' - 5259' TVD	²⁶ DHC, MC R-14051	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8",54.5#, J-55		377.6' MD		350 sx - surface
12-1/4"		9-5/8",36#, J-55		3334' MD		573 sx- surface
8-1/2"		5-1/2",20#, P-110		12142' MD		1791 sx- surface

V. Well Test Data

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

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION Approved by: 	
Printed name: Kayla White		Title: Petroleum Engineer	
Title: Associate Consultant, Environmental Engineer		Approval Date: 10/26/22	
E-mail Address: kwhite@cdhconsult.com		COA: RT expires on 01/22/23	
Date: 9/21/2022	Phone: 720-768-3575		



ENDURING RESOURCES IV LLC

September 21, 2022

Re: S LYBROOK UNIT 344H-30-043-21280

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 that reads "Heather Huntington".

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

1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals & Natural Resources DepartmentForm **Page 3 of 21**
Revised August 1, 2011Submit one copy to
Appropriate District OfficeOIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21280	² Pool Code 42289	³ Pool Name LYBROOK GALLUP
⁴ Property Code 333197	⁵ Property Name S LYBROOK UNIT	⁶ Well Number 344H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 7003'

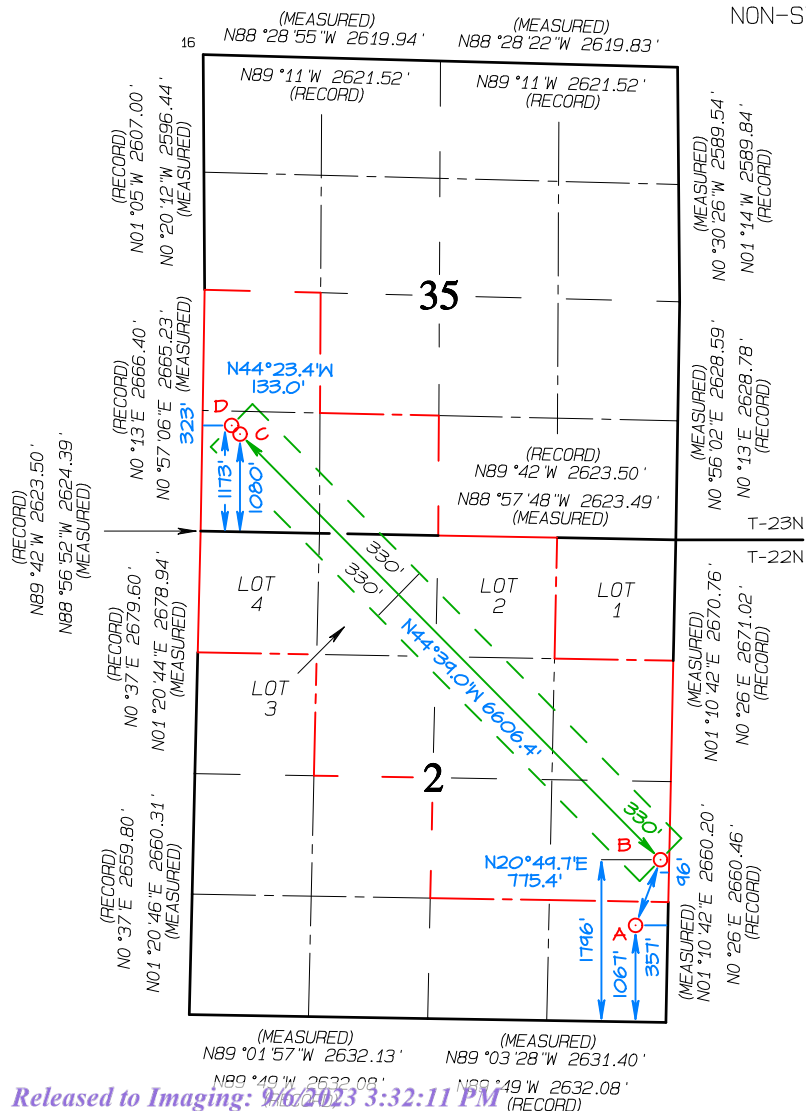
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	22N	7W		1067	SOUTH	357	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	35	23N	7W		1173	SOUTH	323	WEST	SANDOVAL

¹² Dedicated Acres 441.45 N/2 NW/4, SE/4 NW/4, W/2 NE/4 SE/4 NE/4, N/2 SE/4 - Section 2 NW/4 SW/4, S/2 SW/4- Section 35	¹³ Joint or Infill	¹⁴ Consolidation Code R-13883A	¹⁵ Order No.
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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 DIVISIONEND-OF-LATERAL (D)
1173' FSL 323' FWL
SEC 35, T23N, R7W
LAT: 36.178986°N
LONG: 107.551487°W
DATUM: NAD1927LAT: 36.179000°N
LONG: 107.552094°W
DATUM: NAD1983LAST TAKE POINT (C)
1080' FSL 418' FWL
SEC 35, T23N, R7W
LAT: 36.178728°N
LONG: 107.551168°W
DATUM: NAD1927LAT: 36.178743°N
LONG: 107.551774°W
DATUM: NAD1983FIRST TAKE POINT (B)
1796' FSL 96' FEL
SEC 2, T22N, R7W
LAT: 36.165990°N
LONG: 107.535229°W
DATUM: NAD1927LAT: 36.166005°N
LONG: 107.535835°W
DATUM: NAD1983SURFACE LOCATION (A)
1067' FSL 357' FEL
SEC 2, T22N, R7W
LAT: 36.163989°N
LONG: 107.536131°W
DATUM: NAD1927LAT: 36.164004°N
LONG: 107.536737°W
DATUM: NAD1983¹⁷ 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: 9/21/22Printed Name: Heather Huntington
E-mail Address: hhuntington@enduringresources.com¹⁸ SURVEYOR CERTIFICATION

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

Date Revised: SEPTEMBER 20, 2022
Date of Survey: JUNE 12, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II
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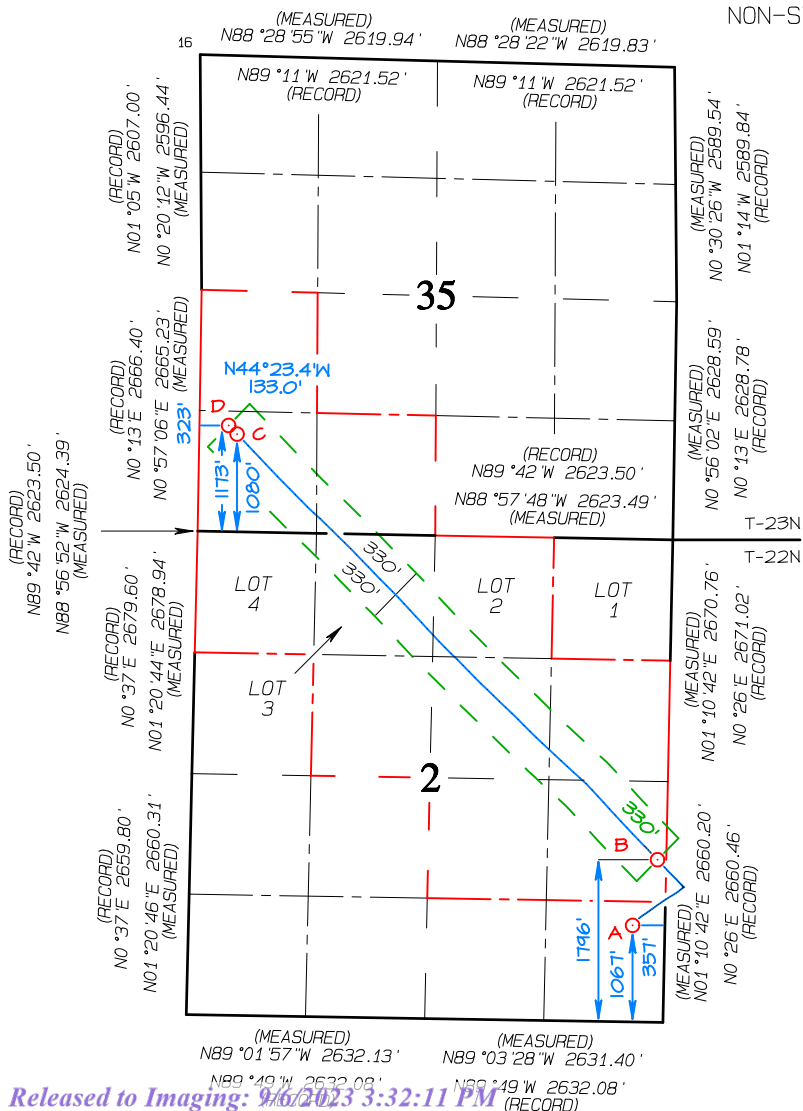
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Signature Heather Huntington Date 9/21/22Printed Name Heather HuntingtonE-mail Address hhuntington@enduringresources.com

E-mail Address

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Date Revised: SEPTEMBER 20, 2022
Date of Survey: JUNE 12, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

☐ AMENDED REPORT

JASON C. EDWARDS
Certificate Number 15269



Well: **S Chaco Unit 344 H**
 Site: **S Chaco Unit 344 Pad (344, 345 & 908)**
 Project: **Sandoval County, New Mexico NAD83 NmW**
 Design: **rev4**
 Rig: **Ensign 145**
 ANNOTATIONS SURVEYS

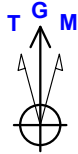
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
401.00	0.97	12.800	400.98	3.31	0.75	1.78	MWD surveys
3357.00	13.51	54.274	3305.99	296.37	367.61	-55.12	9 5/8" Csg @ 3357.00 MD 3305.99 TVD
5406.00	69.98	316.217	5146.88	729.03	263.89	321.78	FTP @ 5406 MD 5146.88 TVD 93 FEL 1796 FSL
5606.00	87.34	314.618	5182.23	868.31	125.94	517.80	330 perpendicular @ 5606 MD 5182.23 TVD
12019.00	89.84	314.883	5259.80	5351.97	-4454.25	6927.27	LTP @ 12019 MD 5259.80 TVD 1080 FSL 425 FWL
12093.00	90.04	314.590	5259.87	5404.06	-4506.82	7001.27	Survey @ 12093.00 MD 5259.87 TVD
12152.00	90.04	314.590	5259.83	5445.48	-4548.83	7060.27	Survey Proj. to 12152 MD 5259.83 TVD 1173 FSL 330 FWL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
S Chaco 344 FTP 1931 FSL 229 FEL 330 perp r4	5191.58	863.50	131.96	1879991.444	2810771.192	36.166375000	-107.536281000
S Chaco 344 PBHL 1097 FSL 226 FWL 330 perp r4	5264.00	5369.88	-4466.56	1884497.812	2806172.680	36.178792000	-107.551816000

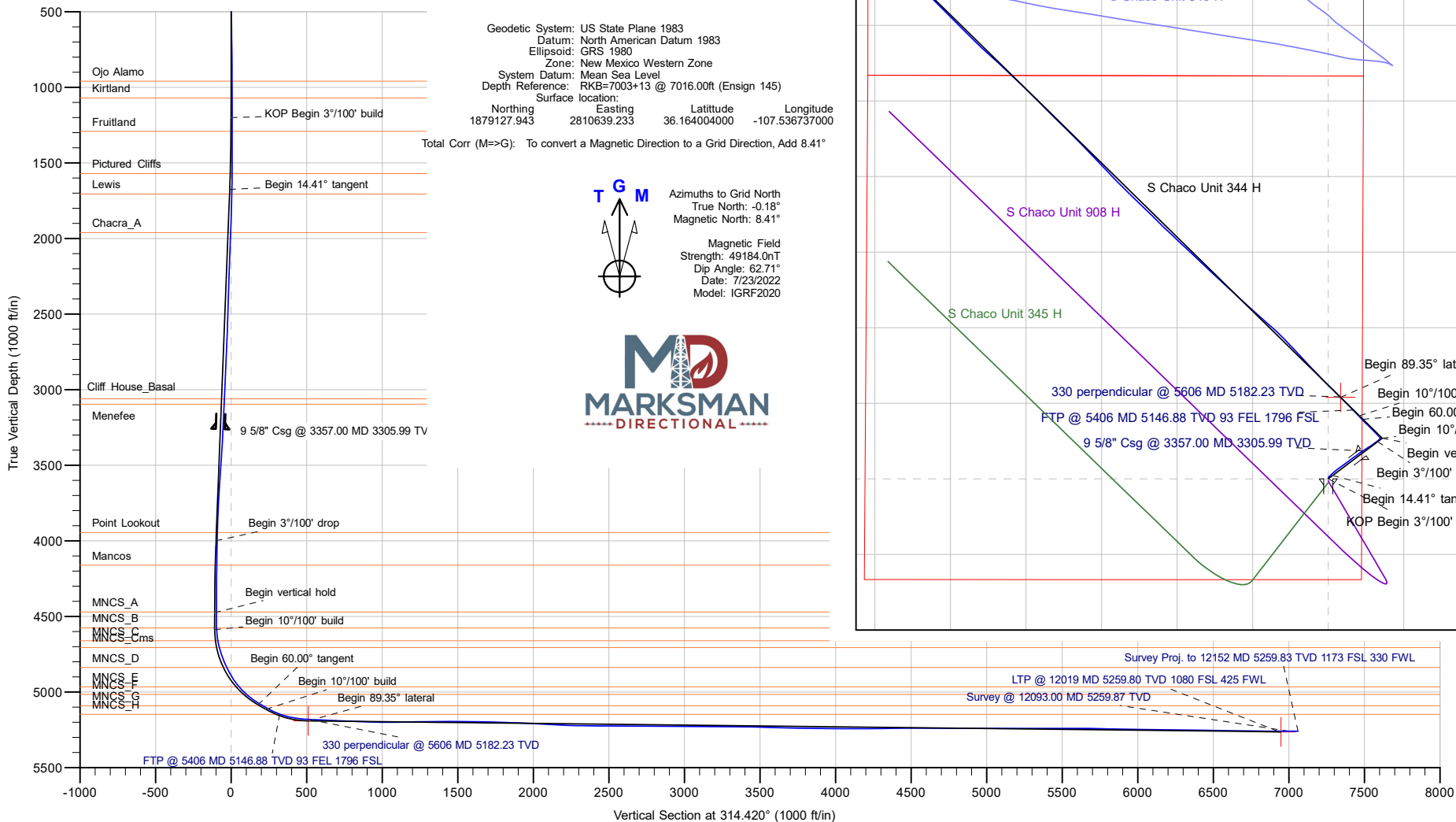
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone
 System Datum: Mean Sea Level
 Depth Reference: RKB=7003+13 @ 7016.00ft (Ensign 145)
 Surface location:
 Northing 1879127.943 Easting 2810639.233 Latitude 36.164004000 Longitude -107.536737000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.41°

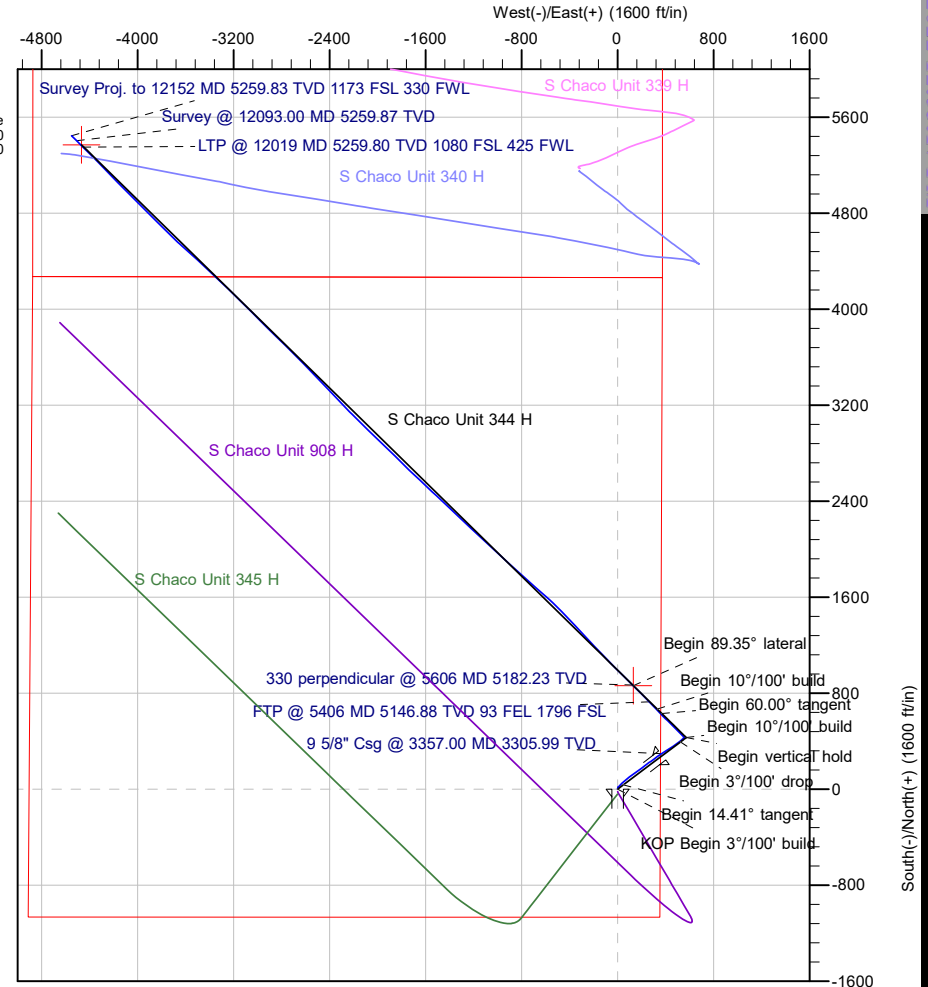


Azimuths to Grid North
 True North: -0.18°
 Magnetic North: 8.41°

Magnetic Field
 Strength: 49184.0nT
 Dip Angle: 62.71°
 Date: 7/23/2022
 Model: IGRF2020



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	1200.00	0.00	0.000	1200.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3"/100' build
3	1680.26	14.41	53.103	1675.21	36.06	48.04	3.00	53.10	-9.07	Begin 14.41° tangent
4	4080.32	14.41	53.103	3999.79	394.60	525.61	0.00	0.00	-99.22	Begin 3"/100' drop
5	4560.57	0.00	359.066	4475.00	430.66	573.65	3.00	180.00	-108.29	Begin vertical hold
6	4674.15	0.00	359.066	4588.58	430.66	573.65	0.00	359.07	-108.29	Begin 10"/100' build
7	5274.15	60.00	314.420	5084.78	631.17	369.04	10.00	314.42	178.19	Begin 60.00° tangent
8	5334.15	60.00	314.420	5114.78	667.54	331.93	0.00	0.00	230.15	Begin 10"/100' build
9	5627.70	89.35	314.420	5191.50	863.53	131.92	10.00	0.00	510.18	Begin 89.35° lateral
10	12066.53	89.35	314.420	5264.00	5369.88	-4466.56	0.00	0.00	6948.59	PBHL/TD 12066.53 MD 5264.00 TVD



South(-)/North(+) (1600 ft/in)



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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

Site	S Chaco Unit 344 Pad (344, 345 & 908)		
Site Position:		Northing:	1,879,087.903 usft
From:	Lat/Long	Easting:	2,810,639.945 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.163894000
		Longitude:	-107.536735000

Well	S Chaco Unit 344 H, Surf loc: 1067 FSL 357 FEL Section 02-T22N=R07W		
Well Position	+N/-S	0.00 ft	Northing: 1,879,127.943 usft
	+E/-W	0.00 ft	Easting: 2,810,639.232 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.18 °	Ground Level:	7,003.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/23/2022	8.59	62.71	49,184.03226754

Design	Surveys Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	314.420	

Survey Program	Date	8/14/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
401.00	3,208.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
3,297.00	12,093.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
12,152.00	12,152.00	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	
401.00	0.97	12.800	400.98	3.31	0.75	1.78	0.24	0.24	0.00	
MWD surveys										
492.00	1.21	14.540	491.96	4.99	1.16	2.66	0.27	0.26	1.91	
583.00	1.30	15.120	582.94	6.92	1.67	3.65	0.10	0.10	0.64	
675.00	1.34	16.320	674.92	8.96	2.25	4.66	0.05	0.04	1.30	
765.00	1.33	18.760	764.89	10.96	2.88	5.61	0.06	-0.01	2.71	
855.00	1.37	27.420	854.87	12.90	3.71	6.38	0.23	0.04	9.62	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
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Design:	Surveys Original Hole	Database:	DB_Feb2822

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)
947.00	1.00	34.390	946.85	14.54	4.67	6.84	0.43	-0.40	7.58
1,037.00	0.66	20.070	1,036.84	15.67	5.29	7.19	0.44	-0.38	-15.91
1,131.00	0.49	30.210	1,130.83	16.53	5.68	7.51	0.21	-0.18	10.79
1,226.00	2.77	42.080	1,225.79	18.59	7.42	7.71	2.41	2.40	12.49
1,321.00	6.88	44.270	1,320.43	24.37	12.94	7.81	4.33	4.33	2.31
1,416.00	11.27	45.980	1,414.22	34.90	23.59	7.58	4.63	4.62	1.80
1,511.00	12.58	46.210	1,507.17	48.51	37.73	7.00	1.38	1.38	0.24
1,606.00	12.84	46.470	1,599.84	62.94	52.86	6.30	0.28	0.27	0.27
1,700.00	13.18	47.260	1,691.43	77.40	68.30	5.39	0.41	0.36	0.84
1,795.00	13.04	52.760	1,783.96	91.24	84.79	3.30	1.32	-0.15	5.79
1,889.00	12.50	52.050	1,875.63	103.91	101.25	0.41	0.60	-0.57	-0.76
1,984.00	11.89	54.720	1,968.49	115.89	117.35	-2.70	0.87	-0.64	2.81
2,078.00	11.80	55.210	2,060.49	126.97	133.14	-6.23	0.14	-0.10	0.52
2,172.00	11.43	55.530	2,152.56	137.72	148.72	-9.83	0.40	-0.39	0.34
2,266.00	10.73	54.890	2,244.81	148.03	163.55	-13.21	0.76	-0.74	-0.68
2,361.00	11.87	53.100	2,337.96	158.98	178.60	-16.29	1.26	1.20	-1.88
2,456.00	12.21	52.320	2,430.88	170.99	194.37	-19.15	0.40	0.36	-0.82
2,550.00	11.64	51.910	2,522.85	182.91	209.70	-21.75	0.61	-0.61	-0.44
2,644.00	12.99	53.160	2,614.68	195.10	225.62	-24.59	1.46	1.44	1.33
2,738.00	14.23	54.350	2,706.04	208.17	243.46	-28.19	1.35	1.32	1.27
2,832.00	13.80	54.140	2,797.24	221.47	261.93	-32.07	0.46	-0.46	-0.22
2,926.00	14.94	54.270	2,888.30	235.11	280.86	-36.04	1.21	1.21	0.14
3,021.00	15.01	54.550	2,980.07	249.40	300.82	-40.30	0.11	0.07	0.29
3,114.00	14.40	54.600	3,070.03	263.08	320.06	-44.46	0.66	-0.66	0.05
3,208.00	13.69	55.000	3,161.22	276.23	338.70	-48.57	0.76	-0.76	0.43
3,297.00	13.74	55.560	3,247.68	288.25	356.04	-52.54	0.16	0.06	0.63
3,357.00	13.51	54.274	3,305.99	296.37	367.61	-55.12	0.64	-0.39	-2.14
9 5/8" Csg @ 3357.00 MD 3305.99 TVD									
3,359.00	13.50	54.230	3,307.93	296.64	367.98	-55.20	0.64	-0.38	-2.18
3,453.00	14.87	59.120	3,399.07	309.25	387.24	-60.13	1.94	1.46	5.20
3,548.00	16.27	57.620	3,490.58	322.63	408.94	-66.26	1.53	1.47	-1.58
3,642.00	15.88	57.620	3,580.91	336.57	430.92	-72.21	0.41	-0.41	0.00
3,737.00	17.09	57.520	3,672.00	351.03	453.68	-78.34	1.27	1.27	-0.11
3,831.00	14.95	55.490	3,762.34	365.32	475.32	-83.80	2.35	-2.28	-2.16
3,925.00	13.76	53.250	3,853.41	378.88	494.27	-87.84	1.40	-1.27	-2.38
4,020.00	11.48	51.300	3,946.11	391.55	510.70	-90.71	2.44	-2.40	-2.05
4,114.00	11.00	49.930	4,038.30	403.17	524.87	-92.69	0.58	-0.51	-1.46
4,209.00	8.35	50.700	4,131.95	413.38	537.14	-94.32	2.79	-2.79	0.81
4,303.00	6.00	45.800	4,225.20	421.12	545.95	-95.18	2.58	-2.50	-5.21
4,397.00	3.59	40.460	4,318.87	426.79	551.38	-95.10	2.60	-2.56	-5.68
4,491.00	2.14	72.810	4,412.75	429.55	554.97	-95.73	2.25	-1.54	34.41
4,585.00	0.23	117.800	4,506.73	429.98	556.81	-96.74	2.11	-2.03	47.86
4,616.00	0.16	134.750	4,537.73	429.92	556.90	-96.85	0.29	-0.23	54.68
4,648.00	1.64	317.740	4,569.73	430.23	556.62	-96.43	5.62	4.63	-553.16



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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)
4,679.00	4.26	316.910	4,600.68	431.40	555.53	-94.84	8.45	8.45	-2.68
4,710.00	7.31	316.360	4,631.52	433.66	553.39	-91.72	9.84	9.84	-1.77
4,741.00	10.55	318.390	4,662.14	437.21	550.14	-86.91	10.50	10.45	6.55
4,773.00	13.22	318.630	4,693.45	442.15	545.78	-80.34	8.35	8.34	0.75
4,804.00	16.11	317.580	4,723.44	447.99	540.53	-72.51	9.36	9.32	-3.39
4,835.00	18.93	314.850	4,753.00	454.71	534.06	-63.19	9.47	9.10	-8.81
4,866.00	21.43	314.410	4,782.09	462.22	526.45	-52.49	8.08	8.06	-1.42
4,897.00	23.63	314.780	4,810.73	470.56	518.00	-40.61	7.11	7.10	1.19
4,929.00	24.90	315.710	4,839.90	479.90	508.74	-27.47	4.14	3.97	2.91
4,960.00	27.81	315.790	4,867.67	489.76	499.14	-13.71	9.39	9.39	0.26
4,992.00	31.38	315.570	4,895.49	501.06	488.10	2.09	11.16	11.16	-0.69
5,023.00	34.85	315.510	4,921.45	513.15	476.24	19.02	11.19	11.19	-0.19
5,055.00	38.16	315.390	4,947.17	526.71	462.88	38.05	10.35	10.34	-0.38
5,086.00	41.59	314.720	4,970.96	540.77	448.84	57.92	11.15	11.06	-2.16
5,117.00	44.69	313.780	4,993.58	555.56	433.66	79.11	10.21	10.00	-3.03
5,149.00	47.89	313.700	5,015.69	571.55	416.95	102.24	10.00	10.00	-0.25
5,180.00	51.50	314.580	5,035.74	588.01	399.99	125.88	11.84	11.65	2.84
5,212.00	54.99	315.520	5,054.88	606.16	381.88	151.51	11.16	10.91	2.94
5,243.00	58.76	316.340	5,071.82	624.81	363.83	177.46	12.36	12.16	2.65
5,274.00	60.61	316.480	5,087.47	644.19	345.38	204.20	5.98	5.97	0.45
5,306.00	59.80	316.230	5,103.37	664.29	326.21	231.95	2.62	-2.53	-0.78
5,337.00	61.47	315.810	5,118.57	683.73	307.45	258.96	5.51	5.39	-1.35
5,368.00	65.32	316.170	5,132.45	703.66	288.20	286.66	12.46	12.42	1.16
5,400.00	69.28	316.270	5,144.80	724.97	267.78	316.16	12.38	12.38	0.31
5,406.00	69.98	316.217	5,146.88	729.03	263.89	321.78	11.67	11.64	-0.89
FTP @ 5406 MD 5146.88 TVD 93 FEL 1796 FSL									
5,431.00	72.89	316.000	5,154.84	746.11	247.46	345.47	11.67	11.65	-0.87
5,462.00	76.03	315.580	5,163.15	767.51	226.64	375.32	10.21	10.13	-1.35
5,493.00	79.24	315.230	5,169.78	789.07	205.38	405.60	10.41	10.35	-1.13
5,525.00	81.77	315.180	5,175.06	811.47	183.14	437.15	7.91	7.91	-0.16
5,556.00	84.33	314.850	5,178.81	833.23	161.39	467.92	8.33	8.26	-1.06
5,588.00	86.74	314.630	5,181.30	855.69	138.73	499.82	7.56	7.53	-0.69
5,606.00	87.34	314.618	5,182.23	868.31	125.94	517.80	3.36	3.35	-0.06
330 perpendicular @ 5606 MD 5182.23 TVD									
5,619.00	87.78	314.610	5,182.79	877.44	116.69	530.78	3.36	3.35	-0.06
5,714.00	87.93	315.290	5,186.34	944.51	49.50	625.71	0.73	0.16	0.72
5,808.00	87.57	315.190	5,190.03	1,011.20	-16.63	719.63	0.40	-0.38	-0.11
5,902.00	87.51	315.820	5,194.07	1,078.19	-82.45	813.53	0.67	-0.06	0.67
5,997.00	87.18	315.680	5,198.47	1,146.16	-148.67	908.40	0.38	-0.35	-0.15
6,090.00	90.02	316.930	5,200.74	1,213.38	-212.89	1,001.31	3.34	3.05	1.34
6,184.00	89.98	317.210	5,200.74	1,282.20	-276.91	1,095.21	0.30	-0.04	0.30
6,278.00	91.31	316.300	5,199.68	1,350.67	-341.31	1,189.12	1.71	1.41	-0.97
6,374.00	91.23	316.280	5,197.55	1,420.05	-407.63	1,285.05	0.09	-0.08	-0.02



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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)
6,468.00	91.28	316.630	5,195.50	1,488.16	-472.37	1,378.97	0.38	0.05	0.37
6,562.00	89.84	313.030	5,194.58	1,554.42	-539.02	1,472.94	4.12	-1.53	-3.83
6,655.00	89.23	311.560	5,195.33	1,617.00	-607.81	1,565.87	1.71	-0.66	-1.58
6,750.00	88.19	311.160	5,197.47	1,679.76	-679.09	1,660.71	1.17	-1.09	-0.42
6,845.00	88.15	311.670	5,200.50	1,742.57	-750.30	1,755.53	0.54	-0.04	0.54
6,939.00	87.94	312.170	5,203.71	1,805.33	-820.20	1,849.39	0.58	-0.22	0.53
7,033.00	87.40	311.940	5,207.53	1,868.24	-889.94	1,943.23	0.62	-0.57	-0.24
7,127.00	87.43	312.100	5,211.77	1,931.10	-959.70	2,037.05	0.17	0.03	0.17
7,221.00	87.18	312.620	5,216.19	1,994.37	-1,029.08	2,130.88	0.61	-0.27	0.55
7,316.00	87.01	313.030	5,221.01	2,058.86	-1,098.67	2,225.73	0.47	-0.18	0.43
7,410.00	89.43	313.900	5,223.93	2,123.49	-1,166.86	2,319.66	2.74	2.57	0.93
7,505.00	89.62	313.900	5,224.71	2,189.36	-1,235.31	2,414.65	0.20	0.20	0.00
7,599.00	89.68	313.690	5,225.29	2,254.41	-1,303.16	2,508.64	0.23	0.06	-0.22
7,693.00	89.66	313.360	5,225.83	2,319.15	-1,371.31	2,602.63	0.35	-0.02	-0.35
7,788.00	89.78	312.660	5,226.29	2,383.95	-1,440.78	2,697.60	0.75	0.13	-0.74
7,882.00	89.72	312.340	5,226.70	2,447.45	-1,510.08	2,791.55	0.35	-0.06	-0.34
7,976.00	89.39	313.680	5,227.43	2,511.57	-1,578.81	2,885.51	1.47	-0.35	1.43
8,070.00	89.58	313.140	5,228.28	2,576.17	-1,647.10	2,979.49	0.61	0.20	-0.57
8,164.00	89.67	312.730	5,228.89	2,640.19	-1,715.92	3,073.46	0.45	0.10	-0.44
8,259.00	89.57	315.120	5,229.52	2,706.09	-1,784.33	3,168.45	2.52	-0.11	2.52
8,353.00	89.76	314.960	5,230.07	2,772.60	-1,850.75	3,262.44	0.26	0.20	-0.17
8,447.00	89.64	314.350	5,230.57	2,838.67	-1,917.62	3,356.44	0.66	-0.13	-0.65
8,541.00	89.18	314.120	5,231.53	2,904.24	-1,984.96	3,450.43	0.55	-0.49	-0.24
8,635.00	87.90	312.530	5,233.93	2,968.71	-2,053.32	3,544.38	2.17	-1.36	-1.69
8,730.00	88.47	315.330	5,236.94	3,034.58	-2,121.70	3,639.32	3.01	0.60	2.95
8,824.00	87.98	314.790	5,239.85	3,101.09	-2,188.06	3,733.27	0.78	-0.52	-0.57
8,919.00	90.07	316.610	5,241.47	3,169.06	-2,254.40	3,828.22	2.92	2.20	1.92
9,013.00	89.66	315.950	5,241.69	3,237.00	-2,319.36	3,922.17	0.83	-0.44	-0.70
9,108.00	89.51	315.970	5,242.38	3,305.29	-2,385.40	4,017.13	0.16	-0.16	0.02
9,202.00	89.11	316.370	5,243.51	3,373.09	-2,450.49	4,111.08	0.60	-0.43	0.43
9,295.00	90.73	316.770	5,243.64	3,440.63	-2,514.43	4,204.01	1.79	1.74	0.43
9,390.00	90.87	316.170	5,242.31	3,509.50	-2,579.85	4,298.94	0.65	0.15	-0.63
9,484.00	91.02	315.550	5,240.76	3,576.95	-2,645.30	4,392.90	0.68	0.16	-0.66
9,578.00	90.49	314.650	5,239.52	3,643.52	-2,711.65	4,486.88	1.11	-0.56	-0.96
9,673.00	89.73	313.200	5,239.34	3,709.42	-2,780.07	4,581.88	1.72	-0.80	-1.53
9,767.00	89.50	315.110	5,239.97	3,774.90	-2,847.50	4,675.87	2.05	-0.24	2.03
9,862.00	89.51	314.800	5,240.79	3,842.02	-2,914.73	4,770.86	0.33	0.01	-0.33
9,956.00	89.85	315.040	5,241.32	3,908.39	-2,981.29	4,864.86	0.44	0.36	0.26
10,050.00	90.10	315.280	5,241.36	3,975.05	-3,047.57	4,958.85	0.37	0.27	0.26
10,144.00	90.43	314.920	5,240.92	4,041.63	-3,113.92	5,052.84	0.52	0.35	-0.38
10,239.00	90.16	314.690	5,240.43	4,108.58	-3,181.33	5,147.84	0.37	-0.28	-0.24
10,333.00	89.28	313.250	5,240.89	4,173.84	-3,248.97	5,241.83	1.80	-0.94	-1.53
10,428.00	89.34	313.730	5,242.04	4,239.21	-3,317.89	5,336.81	0.51	0.06	0.51
10,522.00	89.89	313.590	5,242.67	4,304.11	-3,385.89	5,430.80	0.60	0.59	-0.15



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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)
10,617.00	90.42	313.150	5,242.41	4,369.34	-3,454.95	5,525.78	0.73	0.56	-0.46
10,711.00	90.43	312.400	5,241.71	4,433.18	-3,523.95	5,619.74	0.80	0.01	-0.80
10,806.00	89.11	310.830	5,242.10	4,496.27	-3,594.97	5,714.62	2.16	-1.39	-1.65
10,900.00	88.45	314.390	5,244.10	4,559.88	-3,664.12	5,808.54	3.85	-0.70	3.79
10,995.00	88.62	314.400	5,246.53	4,626.32	-3,731.98	5,903.51	0.18	0.18	0.01
11,089.00	88.88	314.430	5,248.58	4,692.09	-3,799.11	5,997.48	0.28	0.28	0.03
11,183.00	89.64	314.850	5,249.79	4,758.13	-3,865.99	6,091.47	0.92	0.81	0.45
11,278.00	89.49	314.670	5,250.51	4,825.02	-3,933.44	6,186.47	0.25	-0.16	-0.19
11,372.00	89.44	313.910	5,251.39	4,890.66	-4,000.72	6,280.46	0.81	-0.05	-0.81
11,467.00	88.90	316.600	5,252.77	4,958.12	-4,067.59	6,375.44	2.89	-0.57	2.83
11,561.00	89.13	315.790	5,254.38	5,025.95	-4,132.64	6,469.38	0.90	0.24	-0.86
11,655.00	89.14	314.980	5,255.80	5,092.85	-4,198.65	6,563.35	0.86	0.01	-0.86
11,750.00	88.97	315.990	5,257.37	5,160.58	-4,265.25	6,658.32	1.08	-0.18	1.06
11,844.00	89.49	315.460	5,258.63	5,227.88	-4,330.86	6,752.29	0.79	0.55	-0.56
11,938.00	89.58	315.130	5,259.40	5,294.69	-4,396.99	6,846.27	0.36	0.10	-0.35
12,019.00	89.84	314.883	5,259.80	5,351.97	-4,454.26	6,927.27	0.45	0.33	-0.31
LTP @ 12019 MD 5259.80 TVD 1080 FSL 425 FWL									
12,033.00	89.89	314.840	5,259.83	5,361.85	-4,464.18	6,941.27	0.45	0.33	-0.31
12,093.00	90.04	314.590	5,259.87	5,404.06	-4,506.82	7,001.27	0.49	0.25	-0.42
Survey @ 12093.00 MD 5259.87 TVD									
12,152.00	90.04	314.590	5,259.83	5,445.48	-4,548.83	7,060.27	0.00	0.00	0.00
Survey Proj. to 12152 MD 5259.83 TVD 1173 FSL 330 FWL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
401.00	400.98	3.31	0.75	MWD surveys
3,357.00	3,305.99	296.37	367.61	9 5/8" Csg @ 3357.00 MD 3305.99 TVD
5,406.00	5,146.88	729.03	263.89	FTP @ 5406 MD 5146.88 TVD 93 FEL 1796 FSL
5,606.00	5,182.23	868.31	125.94	330 perpendicular @ 5606 MD 5182.23 TVD
12,019.00	5,259.80	5,351.97	-4,454.26	LTP @ 12019 MD 5259.80 TVD 1080 FSL 425 FWL
12,093.00	5,259.87	5,404.06	-4,506.82	Survey @ 12093.00 MD 5259.87 TVD
12,152.00	5,259.83	5,445.48	-4,548.83	Survey Proj. to 12152 MD 5259.83 TVD 1173 FSL 330 FWL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

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

Site	S Chaco Unit 344 Pad (344, 345 & 908)		
Site Position:		Northing:	1,879,087.903 usft
From:	Lat/Long	Easting:	2,810,639.945 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.163894000
		Longitude:	-107.536735000
		Grid Convergence:	0.18 °

Well	S Chaco Unit 344 H, Surf loc: 1067 FSL 357 FEL Section 02-T22N=R07W		
Well Position	+N/-S	0.00 ft	Northing: 1,879,127.943 usft
	+E/-W	0.00 ft	Easting: 2,810,639.232 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.164004000
		Longitude:	-107.536737000
		Ground Level:	7,003.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/23/2022	8.59	62.71	49,184.03226754

Design	Surveys Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00		314.420

Survey Program	Date	8/14/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
401.00	3,208.00	MWD surf (Original Hole)	MWD	OWSG MWD - Standard	
3,297.00	12,093.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
12,152.00	12,152.00	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	1,879,127.943	2,810,639.232	36.164004000	-107.536737000	
401.00	0.97	12.800	400.98	3.31	0.75	1,879,131.253	2,810,639.984	36.164013086	-107.536734418	
MWD surveys										
492.00	1.21	14.540	491.96	4.99	1.16	1,879,132.934	2,810,640.396	36.164017701	-107.536733006	
583.00	1.30	15.120	582.94	6.92	1.67	1,879,134.861	2,810,640.907	36.164022989	-107.536731256	
675.00	1.34	16.320	674.92	8.96	2.25	1,879,136.900	2,810,641.481	36.164028588	-107.536729289	
765.00	1.33	18.760	764.89	10.96	2.88	1,879,138.899	2,810,642.113	36.164034074	-107.536727129	
855.00	1.37	27.420	854.87	12.90	3.71	1,879,140.843	2,810,642.944	36.164039407	-107.536724292	
947.00	1.00	34.390	946.85	14.54	4.67	1,879,142.482	2,810,643.904	36.164043901	-107.536721023	
1,037.00	0.66	20.070	1,036.84	15.67	5.29	1,879,143.617	2,810,644.526	36.164047014	-107.536718906	



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,131.00	0.49	30.210	1,130.83	16.53	5.68	1,879,144.473	2,810,644.914	36.164049362	-107.536717582
1,226.00	2.77	42.080	1,225.79	18.59	7.42	1,879,146.528	2,810,646.657	36.164054992	-107.536711656
1,321.00	6.88	44.270	1,320.43	24.37	12.94	1,879,152.309	2,810,652.169	36.164070826	-107.536692921
1,416.00	11.27	45.980	1,414.22	34.90	23.59	1,879,162.839	2,810,662.822	36.164099665	-107.536656723
1,511.00	12.58	46.210	1,507.17	48.51	37.73	1,879,176.450	2,810,676.966	36.164136936	-107.536608664
1,606.00	12.84	46.470	1,599.84	62.94	52.86	1,879,190.879	2,810,692.088	36.164176448	-107.536557286
1,700.00	13.18	47.260	1,691.43	77.40	68.30	1,879,205.346	2,810,707.532	36.164216060	-107.536504818
1,795.00	13.04	52.760	1,783.96	91.24	84.79	1,879,219.183	2,810,724.019	36.164253932	-107.536448819
1,889.00	12.50	52.050	1,875.63	103.91	101.25	1,879,231.856	2,810,740.483	36.164288608	-107.536392910
1,984.00	11.89	54.720	1,968.49	115.89	117.35	1,879,243.831	2,810,756.580	36.164321370	-107.536338255
2,078.00	11.80	55.210	2,060.49	126.97	133.14	1,879,254.908	2,810,772.378	36.164351666	-107.536284618
2,172.00	11.43	55.530	2,152.56	137.72	148.72	1,879,265.664	2,810,787.950	36.164381081	-107.536231752
2,266.00	10.73	54.890	2,244.81	148.03	163.55	1,879,275.968	2,810,802.787	36.164409264	-107.536181380
2,361.00	11.87	53.100	2,337.96	158.98	178.60	1,879,286.921	2,810,817.835	36.164439226	-107.536130285
2,456.00	12.21	52.320	2,430.88	170.99	194.37	1,879,298.928	2,810,833.599	36.164472078	-107.536076755
2,550.00	11.64	51.910	2,522.85	182.91	209.70	1,879,310.854	2,810,848.930	36.164504711	-107.536024695
2,644.00	12.99	53.160	2,614.68	195.10	225.62	1,879,323.039	2,810,864.849	36.164538050	-107.535970637
2,738.00	14.23	54.350	2,706.04	208.17	243.46	1,879,336.108	2,810,882.693	36.164573800	-107.535910050
2,832.00	13.80	54.140	2,797.24	221.47	261.93	1,879,349.409	2,810,901.167	36.164610184	-107.535847324
2,926.00	14.94	54.270	2,888.30	235.11	280.86	1,879,363.053	2,810,920.090	36.164647505	-107.535783076
3,021.00	15.01	54.550	2,980.07	249.40	300.82	1,879,377.339	2,810,940.052	36.164686582	-107.535715299
3,114.00	14.40	54.600	3,070.03	263.08	320.06	1,879,391.023	2,810,959.289	36.164724011	-107.535649986
3,208.00	13.69	55.000	3,161.22	276.23	338.70	1,879,404.174	2,810,977.929	36.164759981	-107.535586702
3,297.00	13.74	55.560	3,247.68	288.25	356.04	1,879,416.192	2,810,995.273	36.164792850	-107.535527819
3,357.00	13.51	54.274	3,305.99	296.37	367.61	1,879,424.313	2,811,006.838	36.164815063	-107.535488554
9 5/8" Csg @ 3357.00 MD 3305.99 TVD									
3,359.00	13.50	54.230	3,307.93	296.64	367.98	1,879,424.586	2,811,007.217	36.164815809	-107.535487267
3,453.00	14.87	59.120	3,399.07	309.25	387.24	1,879,437.191	2,811,026.472	36.164850274	-107.535421901
3,548.00	16.27	57.620	3,490.58	322.63	408.94	1,879,450.575	2,811,048.174	36.164886857	-107.535348241
3,642.00	15.88	57.620	3,580.91	336.57	430.92	1,879,464.514	2,811,070.155	36.164924963	-107.535273628
3,737.00	17.09	57.520	3,672.00	351.03	453.68	1,879,478.971	2,811,092.908	36.164964485	-107.535196396
3,831.00	14.95	55.490	3,762.34	365.32	475.32	1,879,493.259	2,811,114.553	36.165003554	-107.535122916
3,925.00	13.76	53.250	3,853.41	378.88	494.27	1,879,506.818	2,811,133.502	36.165040641	-107.535058577
4,020.00	11.48	51.300	3,946.11	391.55	510.70	1,879,519.490	2,811,149.935	36.165075314	-107.535002774
4,114.00	11.00	49.930	4,038.30	403.17	524.87	1,879,531.112	2,811,164.098	36.165107121	-107.534954670
4,209.00	8.35	50.700	4,131.95	413.38	537.14	1,879,541.317	2,811,176.374	36.165135051	-107.534912975
4,303.00	6.00	45.800	4,225.20	421.12	545.95	1,879,549.066	2,811,185.179	36.165156265	-107.534883064
4,397.00	3.59	40.460	4,318.87	426.79	551.38	1,879,554.731	2,811,190.612	36.165171781	-107.534864600
4,491.00	2.14	72.810	4,412.75	429.55	554.97	1,879,557.489	2,811,194.199	36.165179328	-107.534852420
4,585.00	0.23	117.800	4,506.73	429.98	556.81	1,879,557.920	2,811,196.043	36.165180496	-107.534846169
4,616.00	0.16	134.750	4,537.73	429.92	556.90	1,879,557.861	2,811,196.128	36.165180332	-107.534845879
4,648.00	1.64	317.740	4,569.73	430.23	556.62	1,879,558.168	2,811,195.852	36.165181178	-107.534846812
4,679.00	4.26	316.910	4,600.68	431.40	555.53	1,879,559.338	2,811,194.767	36.165184400	-107.534850476
4,710.00	7.31	316.360	4,631.52	433.66	553.39	1,879,561.606	2,811,192.619	36.165190650	-107.534857730
4,741.00	10.55	318.390	4,662.14	437.21	550.14	1,879,565.156	2,811,189.373	36.165200430	-107.534868691
4,773.00	13.22	318.630	4,693.45	442.15	545.78	1,879,570.093	2,811,185.008	36.165214030	-107.534883426
4,804.00	16.11	317.580	4,723.44	447.99	540.53	1,879,575.930	2,811,179.763	36.165230107	-107.534901135
4,835.00	18.93	314.850	4,753.00	454.71	534.06	1,879,582.653	2,811,173.295	36.165248630	-107.534922976
4,866.00	21.43	314.410	4,782.09	462.22	526.45	1,879,590.163	2,811,165.684	36.165269326	-107.534948685
4,897.00	23.63	314.780	4,810.73	470.56	518.00	1,879,598.503	2,811,157.227	36.165292309	-107.534977247
4,929.00	24.90	315.710	4,839.90	479.90	508.74	1,879,607.843	2,811,147.971	36.165318045	-107.535008510
4,960.00	27.81	315.790	4,867.67	489.76	499.14	1,879,617.700	2,811,138.369	36.165345203	-107.535040936
4,992.00	31.38	315.570	4,895.49	501.06	488.10	1,879,629.004	2,811,127.328	36.165376349	-107.535078223
5,023.00	34.85	315.510	4,921.45	513.15	476.24	1,879,641.090	2,811,115.468	36.165409649	-107.535118279
5,055.00	38.16	315.390	4,947.17	526.71	462.88	1,879,654.653	2,811,102.114	36.165447023	-107.535163377



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,086.00	41.59	314.720	4,970.96	540.77	448.84	1,879,668.715	2,811,088.074	36.165485770	-107.535210799
5,117.00	44.69	313.780	4,993.58	555.56	433.66	1,879,683.501	2,811,072.889	36.165526515	-107.535262089
5,149.00	47.89	313.700	5,015.69	571.55	416.95	1,879,699.491	2,811,056.179	36.165570582	-107.535318534
5,180.00	51.50	314.580	5,035.74	588.01	399.99	1,879,715.955	2,811,039.220	36.165615954	-107.535375818
5,212.00	54.99	315.520	5,054.88	606.16	381.88	1,879,734.100	2,811,021.113	36.165665952	-107.535436972
5,243.00	58.76	316.340	5,071.82	624.81	363.83	1,879,752.753	2,811,003.062	36.165717344	-107.535497933
5,274.00	60.61	316.480	5,087.47	644.19	345.38	1,879,772.135	2,810,984.611	36.165770744	-107.535560239
5,306.00	59.80	316.230	5,103.37	664.29	326.21	1,879,792.230	2,810,965.445	36.165826109	-107.535624963
5,337.00	61.47	315.810	5,118.57	683.73	307.45	1,879,811.669	2,810,946.685	36.165879669	-107.535688319
5,368.00	65.32	316.170	5,132.45	703.66	288.20	1,879,831.602	2,810,927.432	36.165934586	-107.535753339
5,400.00	69.28	316.270	5,144.80	724.97	267.78	1,879,852.912	2,810,907.011	36.165993299	-107.535822302
5,406.00	69.98	316.217	5,146.88	729.03	263.89	1,879,856.975	2,810,903.120	36.166004492	-107.535835438
FTP @ 5406 MD 5146.88 TVD 93 FEL 1796 FSL									
5,431.00	72.89	316.000	5,154.84	746.11	247.46	1,879,874.051	2,810,886.692	36.166051541	-107.535890920
5,462.00	76.03	315.580	5,163.15	767.51	226.64	1,879,895.456	2,810,865.868	36.166110517	-107.535961246
5,493.00	79.24	315.230	5,169.78	789.07	205.38	1,879,917.015	2,810,844.610	36.166169922	-107.536033040
5,525.00	81.77	315.180	5,175.06	811.47	183.14	1,879,939.411	2,810,822.375	36.166231630	-107.536108140
5,556.00	84.33	314.850	5,178.81	833.23	161.39	1,879,961.173	2,810,800.623	36.166291597	-107.536181607
5,588.00	86.74	314.630	5,181.30	855.69	138.73	1,879,983.628	2,810,777.964	36.166353472	-107.536258141
5,606.00	87.34	314.618	5,182.23	868.31	125.94	1,879,996.255	2,810,765.170	36.166388267	-107.536301355
330 perpendicular @ 5606 MD 5182.23 TVD									
5,619.00	87.78	314.610	5,182.79	877.44	116.69	1,880,005.377	2,810,755.924	36.166413404	-107.536332583
5,714.00	87.93	315.290	5,186.34	944.51	49.50	1,880,072.446	2,810,688.738	36.166598212	-107.536559508
5,808.00	87.57	315.190	5,190.03	1,011.20	-16.63	1,880,139.140	2,810,622.599	36.166781982	-107.536782886
5,902.00	87.51	315.820	5,194.07	1,078.19	-82.45	1,880,206.129	2,810,556.781	36.166966558	-107.537005180
5,997.00	87.18	315.680	5,198.47	1,146.16	-148.67	1,880,274.105	2,810,490.562	36.167153847	-107.537228821
6,090.00	90.02	316.930	5,200.74	1,213.38	-212.89	1,880,341.318	2,810,426.344	36.167339026	-107.537445695
6,184.00	89.98	317.210	5,200.74	1,282.20	-276.91	1,880,410.143	2,810,362.320	36.167528630	-107.537661893
6,278.00	91.31	316.300	5,199.68	1,350.67	-341.31	1,880,478.609	2,810,297.925	36.167717250	-107.537879353
6,374.00	91.23	316.280	5,197.55	1,420.05	-407.63	1,880,547.985	2,810,231.605	36.167908386	-107.538103328
6,468.00	91.28	316.630	5,195.50	1,488.16	-472.37	1,880,616.103	2,810,166.862	36.168096052	-107.538321974
6,562.00	89.84	313.030	5,194.58	1,554.42	-539.02	1,880,682.357	2,810,100.213	36.168278614	-107.538547097
6,655.00	89.23	311.560	5,195.33	1,617.00	-607.81	1,880,744.937	2,810,031.426	36.168451100	-107.538779501
6,750.00	88.19	311.160	5,197.47	1,679.76	-679.09	1,880,807.695	2,809,960.141	36.168624095	-107.539020369
6,845.00	88.15	311.670	5,200.50	1,742.57	-750.30	1,880,870.506	2,809,888.934	36.168797234	-107.539260974
6,939.00	87.94	312.170	5,203.71	1,805.33	-820.20	1,880,933.270	2,809,819.031	36.168970233	-107.539497159
7,033.00	87.40	311.940	5,207.53	1,868.24	-889.94	1,880,996.183	2,809,749.294	36.169143639	-107.539732784
7,127.00	87.43	312.100	5,211.77	1,931.10	-959.70	1,881,059.041	2,809,679.532	36.169316896	-107.539968496
7,221.00	87.18	312.620	5,216.19	1,994.37	-1,029.08	1,881,122.307	2,809,610.150	36.169491267	-107.540202916
7,316.00	87.01	313.030	5,221.01	2,058.86	-1,098.67	1,881,186.801	2,809,540.564	36.169669014	-107.540438017
7,410.00	89.43	313.900	5,223.93	2,123.49	-1,166.86	1,881,251.428	2,809,472.378	36.169847115	-107.540668372
7,505.00	89.62	313.900	5,224.71	2,189.36	-1,235.31	1,881,317.299	2,809,403.928	36.170028634	-107.540899611
7,599.00	89.68	313.690	5,225.29	2,254.41	-1,303.16	1,881,382.353	2,809,336.079	36.170207905	-107.541128826
7,693.00	89.66	313.360	5,225.83	2,319.15	-1,371.31	1,881,447.087	2,809,267.923	36.170386297	-107.541359081
7,788.00	89.78	312.660	5,226.29	2,383.95	-1,440.78	1,881,511.887	2,809,198.457	36.170564883	-107.541593777
7,882.00	89.72	312.340	5,226.70	2,447.45	-1,510.08	1,881,575.392	2,809,129.154	36.170739908	-107.541827935
7,976.00	89.39	313.680	5,227.43	2,511.57	-1,578.81	1,881,639.508	2,809,060.422	36.170916607	-107.542060153
8,070.00	89.58	313.140	5,228.28	2,576.17	-1,647.10	1,881,704.103	2,808,992.138	36.171094617	-107.542290847
8,164.00	89.67	312.730	5,228.89	2,640.19	-1,715.92	1,881,768.132	2,808,923.320	36.171271075	-107.542523360
8,259.00	89.57	315.120	5,229.52	2,706.09	-1,784.33	1,881,834.028	2,808,854.903	36.171452661	-107.542754495
8,353.00	89.76	314.960	5,230.07	2,772.60	-1,850.75	1,881,900.541	2,808,788.483	36.171635924	-107.542978861
8,447.00	89.64	314.350	5,230.57	2,838.67	-1,917.62	1,881,966.606	2,808,721.617	36.171817959	-107.543204741
8,541.00	89.18	314.120	5,231.53	2,904.24	-1,984.96	1,882,032.177	2,808,654.272	36.171998640	-107.543432253
8,635.00	87.90	312.530	5,233.93	2,968.71	-2,053.32	1,882,096.650	2,808,585.915	36.172176312	-107.543663202
8,730.00	88.47	315.330	5,236.94	3,034.58	-2,121.70	1,882,162.519	2,808,517.539	36.172357821	-107.543894204



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,824.00	87.98	314.790	5,239.85	3,101.09	-2,188.06	1,882,229.024	2,808,451.173	36.172541059	-107.544118391
8,919.00	90.07	316.610	5,241.47	3,169.06	-2,254.40	1,882,296.999	2,808,384.840	36.172728333	-107.544342451
9,013.00	89.66	315.950	5,241.69	3,237.00	-2,319.36	1,882,364.934	2,808,319.875	36.172915488	-107.544561882
9,108.00	89.51	315.970	5,242.38	3,305.29	-2,385.40	1,882,433.223	2,808,253.836	36.173103624	-107.544784944
9,202.00	89.11	316.370	5,243.51	3,373.09	-2,450.49	1,882,501.029	2,808,188.744	36.173290424	-107.545004805
9,295.00	90.73	316.770	5,243.64	3,440.63	-2,514.43	1,882,568.565	2,808,124.812	36.173476471	-107.545220739
9,390.00	90.87	316.170	5,242.31	3,509.50	-2,579.85	1,882,637.434	2,808,059.389	36.173666193	-107.545441713
9,484.00	91.02	315.550	5,240.76	3,576.95	-2,645.30	1,882,704.883	2,807,993.936	36.173852012	-107.545662806
9,578.00	90.49	314.650	5,239.52	3,643.52	-2,711.65	1,882,771.460	2,807,927.591	36.174035445	-107.545886930
9,673.00	89.73	313.200	5,239.34	3,709.42	-2,780.07	1,882,837.360	2,807,859.170	36.174217035	-107.546118095
9,767.00	89.50	315.110	5,239.97	3,774.90	-2,847.50	1,882,902.836	2,807,791.733	36.174397451	-107.546345929
9,862.00	89.51	314.800	5,240.79	3,842.02	-2,914.73	1,882,969.956	2,807,724.508	36.174582380	-107.546573032
9,956.00	89.85	315.040	5,241.32	3,908.39	-2,981.29	1,883,036.329	2,807,657.949	36.174765254	-107.546797888
10,050.00	90.10	315.280	5,241.36	3,975.05	-3,047.57	1,883,102.983	2,807,591.667	36.174948893	-107.547021802
10,144.00	90.43	314.920	5,240.92	4,041.63	-3,113.92	1,883,169.566	2,807,525.316	36.175132339	-107.547245952
10,239.00	90.16	314.690	5,240.43	4,108.58	-3,181.33	1,883,236.511	2,807,457.914	36.175316787	-107.547473661
10,333.00	89.28	313.250	5,240.89	4,173.84	-3,248.97	1,883,301.770	2,807,390.265	36.175496607	-107.547702223
10,428.00	89.34	313.730	5,242.04	4,239.21	-3,317.89	1,883,367.146	2,807,321.348	36.175676758	-107.547935081
10,522.00	89.89	313.590	5,242.67	4,304.11	-3,385.89	1,883,432.040	2,807,253.346	36.175855575	-107.548164847
10,617.00	90.42	313.150	5,242.41	4,369.34	-3,454.95	1,883,497.276	2,807,184.288	36.176035342	-107.548398187
10,711.00	90.43	312.400	5,241.71	4,433.18	-3,523.95	1,883,561.111	2,807,115.292	36.176211258	-107.548631333
10,806.00	89.11	310.830	5,242.10	4,496.27	-3,594.97	1,883,624.199	2,807,044.272	36.176385137	-107.548871344
10,900.00	88.45	314.390	5,244.10	4,559.88	-3,664.12	1,883,687.812	2,806,975.118	36.176560444	-107.549105032
10,995.00	88.62	314.400	5,246.53	4,626.32	-3,731.98	1,883,754.252	2,806,907.259	36.176743506	-107.549334300
11,089.00	88.88	314.430	5,248.58	4,692.09	-3,799.11	1,883,820.022	2,806,840.132	36.176924721	-107.549561098
11,183.00	89.64	314.850	5,249.79	4,758.13	-3,865.99	1,883,886.065	2,806,773.254	36.177106683	-107.549787050
11,278.00	89.49	314.670	5,250.51	4,825.02	-3,933.44	1,883,952.956	2,806,705.800	36.177290979	-107.550014947
11,372.00	89.44	313.910	5,251.39	4,890.66	-4,000.72	1,884,018.592	2,806,638.517	36.177471825	-107.550242277
11,467.00	88.90	316.600	5,252.77	4,958.12	-4,067.59	1,884,086.052	2,806,571.655	36.177657678	-107.550468165
11,561.00	89.13	315.790	5,254.38	5,025.95	-4,132.64	1,884,153.881	2,806,506.598	36.177844530	-107.550687934
11,655.00	89.14	314.980	5,255.80	5,092.85	-4,198.65	1,884,220.786	2,806,440.587	36.178028851	-107.550910948
11,750.00	88.97	315.990	5,257.37	5,160.58	-4,265.25	1,884,288.517	2,806,373.992	36.178215446	-107.551135927
11,844.00	89.49	315.460	5,258.63	5,227.88	-4,330.86	1,884,355.815	2,806,308.377	36.178400840	-107.551357596
11,938.00	89.58	315.130	5,259.40	5,294.69	-4,396.99	1,884,422.622	2,806,242.255	36.178584891	-107.551580989
12,019.00	89.84	314.883	5,259.80	5,351.97	-4,454.26	1,884,479.903	2,806,184.986	36.178742704	-107.551774476
LTP @ 12019 MD 5259.80 TVD 1080 FSL 425 FWL									
12,033.00	89.89	314.840	5,259.83	5,361.85	-4,464.18	1,884,489.778	2,806,175.063	36.178769911	-107.551808003
12,093.00	90.04	314.590	5,259.87	5,404.06	-4,506.82	1,884,531.993	2,806,132.426	36.178886218	-107.551952060
Survey @ 12093.00 MD 5259.87 TVD									
12,152.00	90.04	314.590	5,259.83	5,445.48	-4,548.83	1,884,573.413	2,806,090.410	36.179000336	-107.552094024
Survey Proj. to 12152 MD 5259.83 TVD 1173 FSL 330 FWL									



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 344 H
Project:	Sandoval County, New Mexico NAD83 NmW	TVD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Site:	S Chaco Unit 344 Pad (344, 345 & 908)	MD Reference:	RKB=7003+13 @ 7016.00ft (Ensign 145)
Well:	S Chaco Unit 344 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	DB_Feb2822

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
401.00	400.98	3.31	0.75	MWD surveys
3,357.00	3,305.99	296.37	367.61	9 5/8" Csg @ 3357.00 MD 3305.99 TVD
5,406.00	5,146.88	729.03	263.89	FTP @ 5406 MD 5146.88 TVD 93 FEL 1796 FSL
5,606.00	5,182.23	868.31	125.94	330 perpendicular @ 5606 MD 5182.23 TVD
12,019.00	5,259.80	5,351.97	-4,454.26	LTP @ 12019 MD 5259.80 TVD 1080 FSL 425 FWL
12,093.00	5,259.87	5,404.06	-4,506.82	Survey @ 12093.00 MD 5259.87 TVD
12,152.00	5,259.83	5,445.48	-4,548.83	Survey Proj. to 12152 MD 5259.83 TVD 1173 FSL 330 FWL

Checked By: _____ Approved By: _____ Date: _____

This document will be submitted with the completion package after the well has been completed.

WELL NAME: S CHACO UNIT 344H**OBJECTIVE:** Drill, complete, and equip single lateral in the Mancos-H formation**API Number:** 30-043-21280**AFE Number:** DV03083**ER Well Number:** NM08013.01**State:** New Mexico**County:** San Juan**Surface Elev.:** 7,003 ft ASL (GL) 7,016 ft ASL (KB)**Surface Location:** 2-22N-07W Sec-Twn- Rng 1,067 ft FSL 357 ft FEL**BH Location:** 35-23N-07W Sec-Twn- Rng 1097 ft FSL 226 ft FWL**Driving Directions:** FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 48.3 miles to MM 103.0; Right (South) on Atkins Road for 4.2 miles to 4-way intersection; Left (East) exiting Atkins Road for 0.3 miles to fork; Right (South) along existing access road for 0.2 miles; Right (South) for 0.6 miles to S CHACO UNIT 344H PAD (WELLS: 344H, 345H, 908H).

QUICK REFERENCE	
Sur TD (MD)	377 ft
Int TD (MD)	3,334 ft
KOP (MD)	4,691 ft
KOP (TVD)	4,605 ft
Target (TVD)	5,191 ft
Curve BUR	10 °/100 ft
POE (MD)	5,645 ft
TD (MD)	12,142 ft
Lat Len (ft)	6,439 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	3,334	9.625	36.0	J-55	LTC	0	3,334
Production	8.500	12,142	5.500	20.0	HCP-110	TCBC-HT	0	12,142

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	677
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,833	136
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	531
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	4,276	1,261

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	974	989
Kirtland	1,086	1,101
Fruitland	1,306	1,321
Pictured Cliffs	1,586	1,604
Lewis	1,721	1,743
Chacra A	1,976	2,006
Cliff House Basal	3,076	3,142
Menefee	3,111	3,178
Point Lookout	3,960	4,055
Mancos	4,176	4,276
MNCS A	4,486	4,587
MNCS B	4,591	4,700
MNCS C	4,676	4,780
MNCS Cms	4,721	4,820
MNCS D	4,853	4,964
MNCS E	4,981	5,120
MNCS F	5,031	5,189
MNCS G	5,106	5,330
MNCS H @ 0 VS	5,163	5,488
FTP (LP) TARGET	5,191	5,645
LTP (TD) TARGET	5,264	12,084

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

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

ACKNOWLEDGMENTS

Action 152650

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 152650
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

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

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

COMMENTS

Action 152650

COMMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 152650
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

COMMENTS

Created By	Comment	Comment Date
llowe	RT C-104 Approved on 10/26/22. RT Expires on 01/22/23, Confidential Status ceases on 01/22/23.	10/26/2022

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Santa Fe, NM 87505

CONDITIONS

Action 152650

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 152650
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT C-104 Approved on 10/26/22. RT Expires on 01/22/23, Confidential Status ceases on 01/22/23.	9/6/2023