



ENDURING RESOURCES IV LLC

September 21, 2022

Re: S LYBROOK UNIT 345H-30-043-21279

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

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

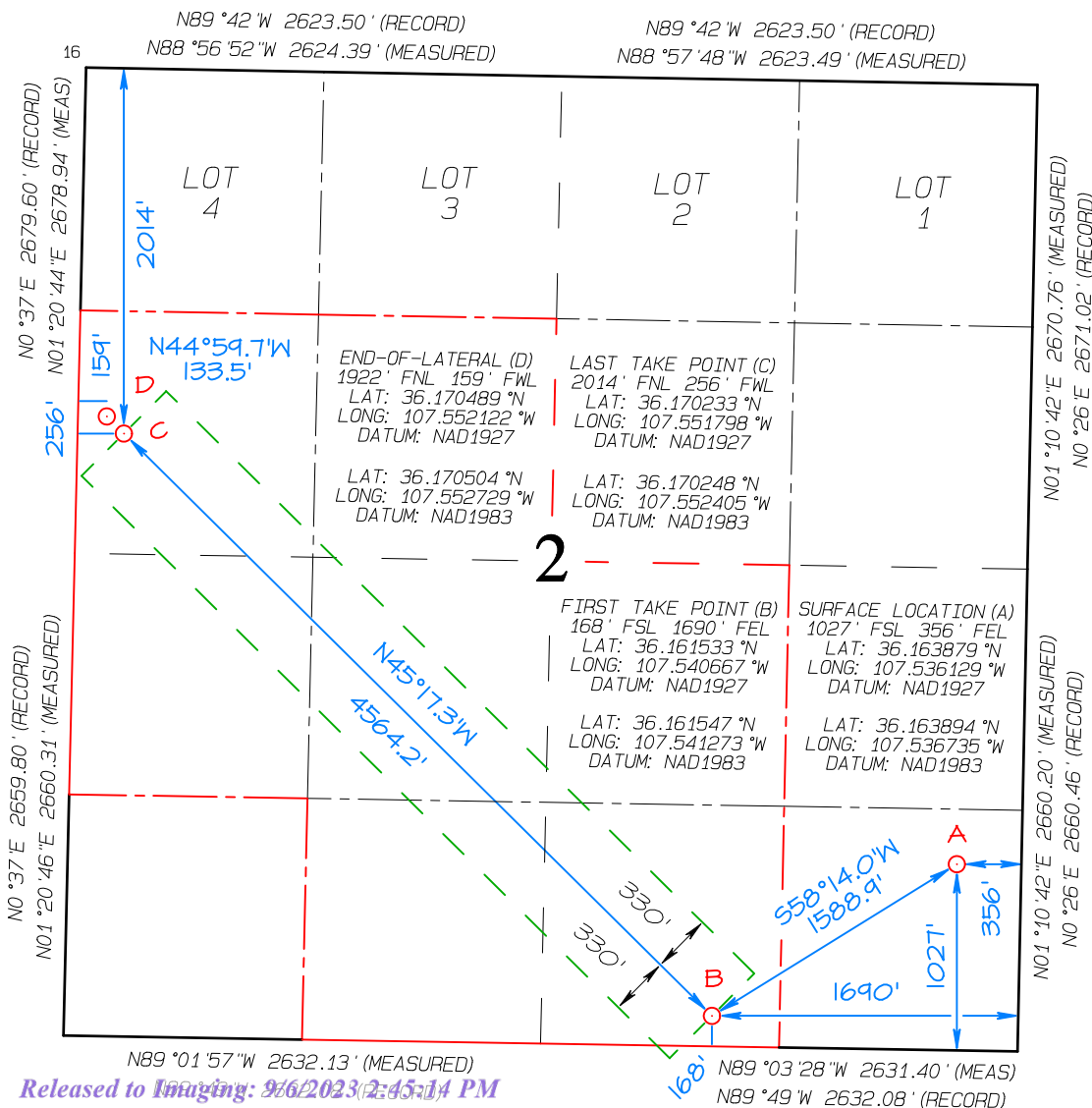
¹ API Number 30-043-21279	² Pool Code 42289	³ Pool Name LYBROOK GALLUP
⁴ Property Code 333197	⁵ Property Name S LYBROOK UNIT	
⁷ OGRID No. 372286	⁶ Well Number 345H	⁸ Operator Name ENDURING RESOURCES, LLC
		⁹ Elevation 7003'

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		1027	SOUTH	356	EAST	SANDOVAL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	2	22N	7W		1922	NORTH	159	WEST	SANDOVAL

¹² Dedicated Acres 280.00 S/2 NW/4, N/2 SW/4 SE/4 SW/4, W/2 SE/4 Section 2, T22N R7W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13883A
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION			

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



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 9/21/22
 Printed Name Heather Huntington
 E-mail Address hhuntington@enduringresources.com

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

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505☐ AMENDED REPORT**AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-043-21279	² Pool Code 42289	³ Pool Name LYBROOK GALLUP
⁴ Property Code 333197	⁵ Property Name S LYBROOK UNIT	⁶ Well Number 345H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 7003'

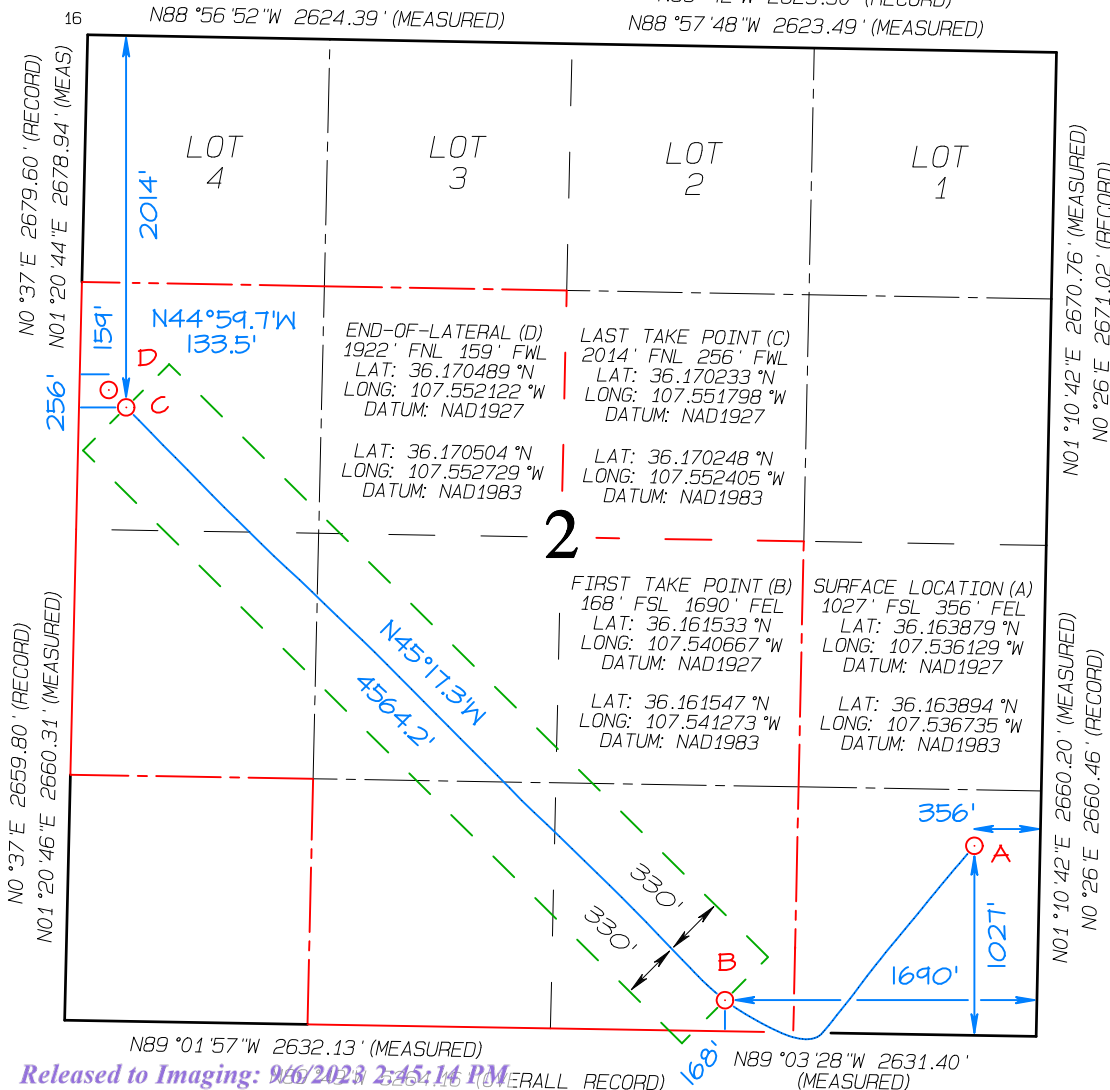
¹⁰ Surface Location

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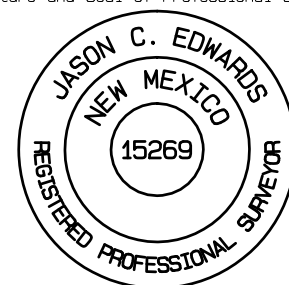
¹¹ Bottom Hole Location If Different From Surface

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NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISIONN89°42'W 2623.50' (RECORD)
N88°56'52"W 2624.39' (MEASURED)N89°42'W 2623.50' (RECORD)
N88°57'48"W 2623.49' (MEASURED)**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 9/21/22
Printed Name
E-mail Address hhuntington@enduringresources.com**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: SEPTEMBER 20, 2022
Date of Survey: JUNE 12, 2015

Signature and Seal of Professional Surveyor

**JASON C. EDWARDS**
Certificate Number 15269

Submit one copy to
Appropriate District Office**OIL CONSERVATION DIVISION**
1220 South St. Francis Drive
Santa Fe, NM 87505☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

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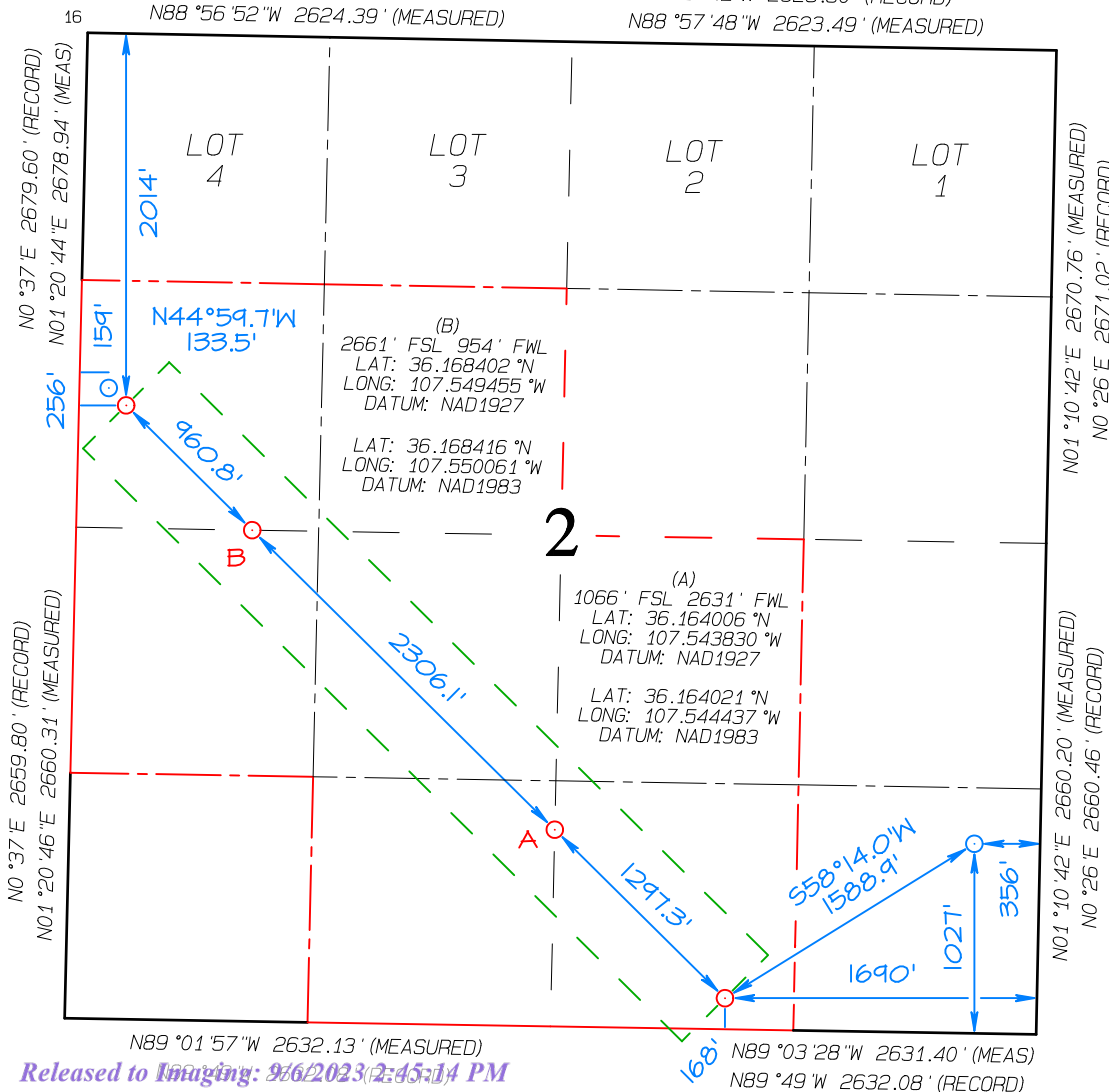
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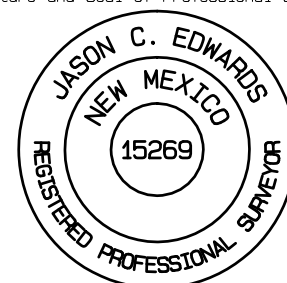
Signature Heather Huntington Date 9/21/22
 Printed Name
hhuntington@enduringresources.com
 E-mail Address

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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



Company: Enduring Resources LLC
Well: S Chaco Unit 345 H
Site: S Chaco Unit 344 Pad (344, 345 & 908)
Project: Sandoval County, New Mexico NAD83 NmW
Design: Surveys Original Hole
Rig: Ensign 145

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: 1879087.903 Easting: 2810639.945 Latitude: 36.163894000 Longitude: -107.536735000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.42°



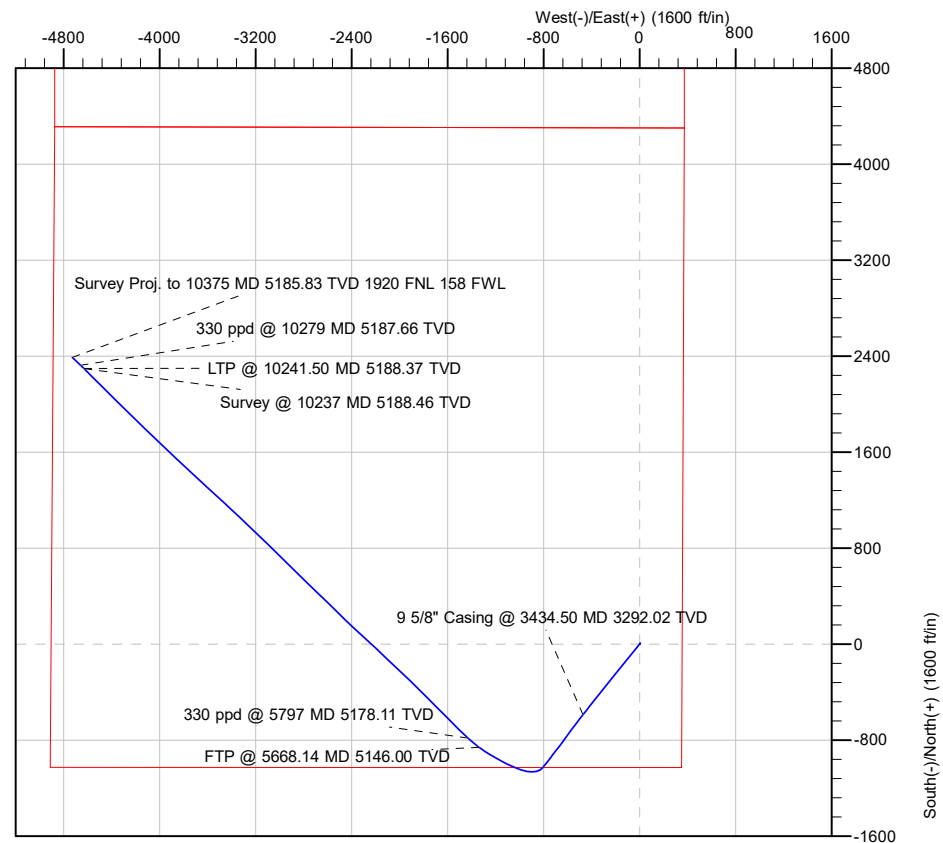
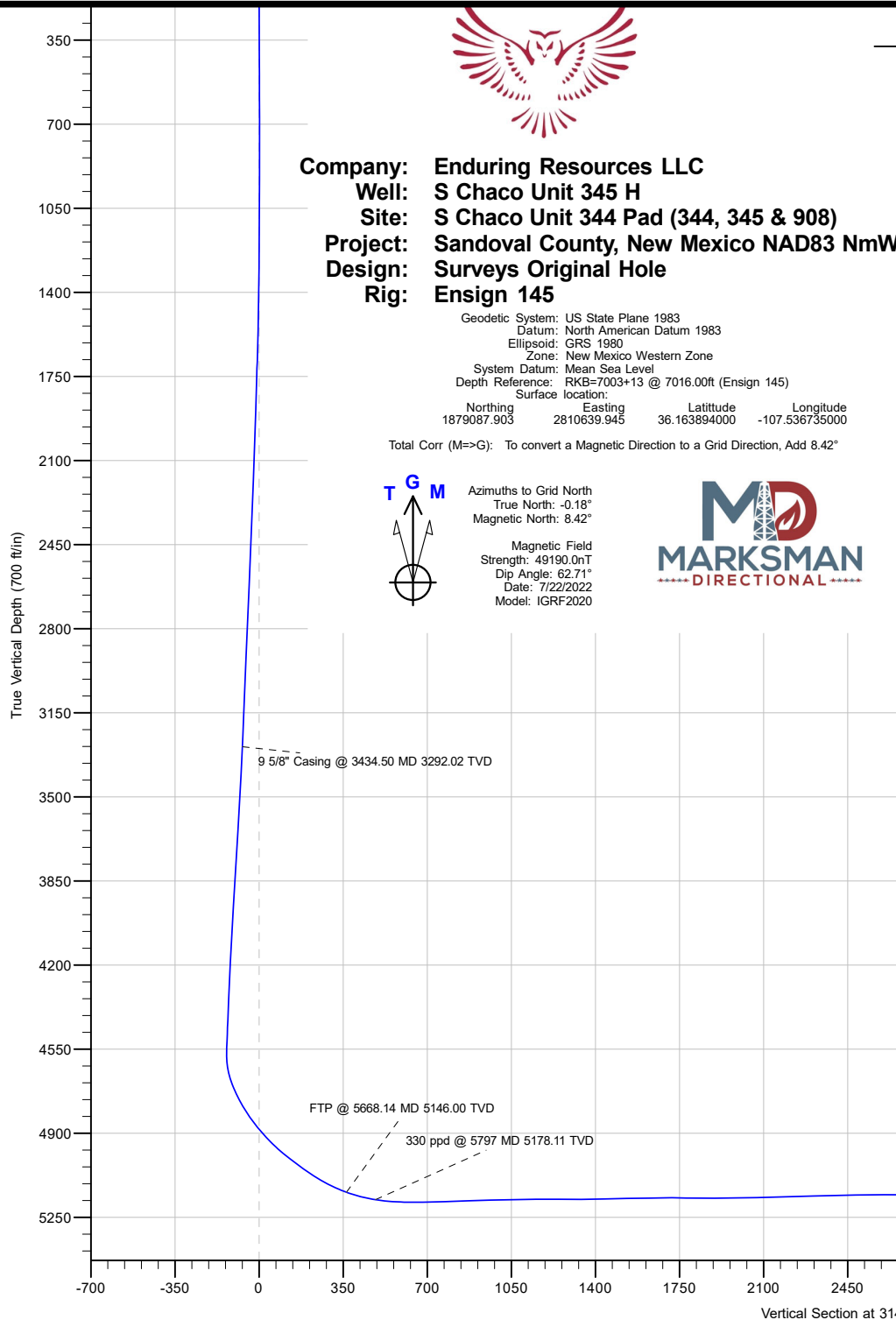
Azimuths to Grid North
True North: -0.18°
Magnetic North: 8.42°

Magnetic Field
Strength: 49190.0nT
Dip Angle: 62.71°
Date: 7/22/2022
Model: IGRF2020



ANNOTATIONS SURVEYS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
401.00	1.01	23.830	400.98	3.23	1.43	1.22	MWD surveys
3434.50	22.87	217.866	3291.54	-585.98	-471.09	-69.00	9 5/8" Casing @ 3434.50 MD 3292.02 TVD
5671.49	70.26	306.479	5146.00	-858.24	-1336.93	363.82	FTP @ 5668.14 MD 5146.00 TVD
5797.00	80.47	311.889	5176.97	-781.15	-1430.71	484.82	330 ppd @ 5797 MD 5178.11 TVD
10237.00	91.09	314.070	5187.32	2296.00	-4628.75	4922.86	Survey @ 10237 MD 5188.46 TVD
10241.50	91.09	314.070	5187.23	2299.13	-4631.98	4927.36	LTP @ 10241.50 MD 5188.37 TVD
10279.00	91.09	314.070	5186.52	2325.21	-4658.92	4964.85	330 ppd @ 10279 MD 5187.66 TVD
10375.00	91.09	314.070	5184.69	2391.97	-4727.88	5060.83	Survey Proj. to 10375 MD 5185.83 TVD 1920 FNL 158 FW



Vertical Section at 314.063° (700 ft/in)



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 345 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 345 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 345 H, Surf loc: 1027 FSL 356 FEL Section 02-T22N-R07W		
Well Position	+N/-S	0.00 ft	Northing: 1,879,087.903 usft
	+E/-W	0.00 ft	Easting: 2,810,639.945 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	7/22/2022	8.60	62.71	49,190.02868651

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	314.063	

Survey Program	Date	8/29/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
401.00	3,375.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
3,453.00	10,237.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
10,375.00	10,375.00	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	1.01	23.830	400.98	3.23	1.43	1.22	0.25	0.25	0.00	
MWD surveys										
492.00	1.32	32.350	491.96	4.85	2.31	1.71	0.39	0.34	9.36	
583.00	1.30	37.070	582.94	6.56	3.50	2.05	0.12	-0.02	5.19	
675.00	1.26	42.090	674.91	8.14	4.80	2.21	0.13	-0.04	5.46	
765.00	0.62	55.510	764.90	9.15	5.87	2.15	0.75	-0.71	14.91	
855.00	0.50	53.130	854.90	9.67	6.58	1.99	0.14	-0.13	-2.64	



Survey Report



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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)
946.00	0.34	41.160	945.89	10.11	7.08	1.94	0.20	-0.18	-13.15
1,037.00	0.23	51.920	1,036.89	10.42	7.40	1.93	0.13	-0.12	11.82
1,131.00	2.33	212.240	1,130.87	8.92	6.53	1.51	2.71	2.23	170.55
1,226.00	4.73	217.090	1,225.68	4.16	3.14	0.64	2.54	2.53	5.11
1,321.00	6.77	218.770	1,320.20	-3.33	-2.73	-0.35	2.15	2.15	1.77
1,416.00	9.73	220.050	1,414.21	-13.84	-11.41	-1.43	3.12	3.12	1.35
1,510.00	13.25	219.580	1,506.31	-28.23	-23.39	-2.83	3.75	3.74	-0.50
1,605.00	16.95	218.960	1,598.01	-47.39	-39.03	-4.91	3.90	3.89	-0.65
1,700.00	20.00	218.760	1,688.11	-70.83	-57.92	-7.64	3.21	3.21	-0.21
1,794.00	22.08	220.030	1,775.83	-96.90	-79.35	-10.37	2.27	2.21	1.35
1,889.00	21.00	219.300	1,864.20	-123.75	-101.61	-13.04	1.17	-1.14	-0.77
1,983.00	19.69	218.730	1,952.33	-149.13	-122.19	-15.91	1.41	-1.39	-0.61
2,078.00	21.92	219.520	2,041.13	-175.30	-143.49	-18.80	2.37	2.35	0.83
2,172.00	21.67	219.180	2,128.41	-202.29	-165.62	-21.67	0.30	-0.27	-0.36
2,266.00	20.57	218.680	2,216.10	-228.63	-186.91	-24.70	1.19	-1.17	-0.53
2,361.00	22.02	218.210	2,304.61	-255.66	-208.35	-28.08	1.54	1.53	-0.49
2,455.00	21.22	218.580	2,392.00	-282.80	-229.86	-31.50	0.86	-0.85	0.39
2,549.00	23.62	218.120	2,478.88	-310.92	-252.10	-35.08	2.56	2.55	-0.49
2,644.00	23.51	218.020	2,565.96	-340.82	-275.52	-39.04	0.12	-0.12	-0.11
2,738.00	22.69	217.810	2,652.42	-369.92	-298.18	-42.99	0.88	-0.87	-0.22
2,832.00	23.40	218.720	2,738.92	-398.80	-320.97	-46.70	0.85	0.76	0.97
2,926.00	22.84	218.970	2,825.37	-427.55	-344.12	-50.06	0.60	-0.60	0.27
3,020.00	24.63	218.900	2,911.42	-456.98	-367.90	-53.45	1.90	1.90	-0.07
3,114.00	24.32	218.450	2,996.97	-487.38	-392.23	-57.10	0.38	-0.33	-0.48
3,208.00	23.62	218.990	3,082.86	-517.18	-416.12	-60.66	0.78	-0.74	0.57
3,302.00	22.58	218.920	3,169.33	-545.86	-439.30	-63.94	1.11	-1.11	-0.07
3,434.50	22.87	217.865	3,291.54	-585.98	-471.09	-69.00	0.38	0.22	-0.80
9 5/8" Casing @ 3434.50 MD 3292.02 TVD									
3,547.00	23.12	216.990	3,395.10	-620.88	-497.80	-74.08	0.38	0.22	-0.78
3,641.00	25.02	217.860	3,480.92	-651.31	-521.10	-78.50	2.06	2.02	0.93
3,735.00	25.25	217.240	3,566.02	-682.97	-545.44	-83.03	0.37	0.24	-0.66
3,830.00	24.82	216.340	3,652.10	-715.16	-569.51	-88.12	0.60	-0.45	-0.95
3,924.00	24.37	215.850	3,737.57	-746.77	-592.56	-93.54	0.53	-0.48	-0.52
4,019.00	23.82	215.910	3,824.29	-778.20	-615.29	-99.06	0.58	-0.58	0.06
4,113.00	22.64	215.170	3,910.67	-808.36	-636.85	-104.55	1.29	-1.26	-0.79
4,207.00	24.93	218.280	3,996.68	-838.71	-659.55	-109.34	2.78	2.44	3.31
4,302.00	24.67	218.010	4,082.92	-870.04	-684.16	-113.45	0.30	-0.27	-0.28
4,396.00	22.74	217.270	4,168.99	-899.96	-707.24	-117.67	2.08	-2.05	-0.79
4,490.00	24.07	217.750	4,255.25	-929.58	-729.98	-121.93	1.43	1.41	0.51
4,583.00	20.79	215.780	4,341.21	-957.97	-751.25	-126.39	3.62	-3.53	-2.12
4,678.00	21.14	219.620	4,429.92	-984.85	-772.03	-130.15	1.49	0.37	4.04
4,772.00	23.88	218.750	4,516.75	-1,012.75	-794.75	-133.22	2.94	2.91	-0.93
4,802.00	26.09	219.100	4,543.94	-1,022.60	-802.72	-134.36	7.38	7.37	1.17
4,834.00	25.74	224.490	4,572.73	-1,033.02	-812.02	-134.91	7.44	-1.09	16.84



Survey Report



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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)
4,865.00	26.33	233.100	4,600.59	-1,041.96	-822.24	-133.78	12.33	1.90	27.77
4,896.00	28.08	242.720	4,628.18	-1,049.43	-834.23	-130.37	15.25	5.65	31.03
4,927.00	29.85	251.500	4,655.31	-1,055.23	-848.04	-124.48	14.84	5.71	28.32
4,959.00	30.46	258.100	4,682.99	-1,059.43	-863.53	-116.26	10.53	1.91	20.63
4,991.00	31.54	264.950	4,710.42	-1,061.84	-879.81	-106.24	11.52	3.38	21.41
5,022.00	33.17	270.570	4,736.62	-1,062.47	-896.37	-94.78	11.03	5.26	18.13
5,053.00	34.41	274.510	4,762.38	-1,061.69	-913.59	-81.87	8.12	4.00	12.71
5,085.00	36.04	279.040	4,788.53	-1,059.50	-931.90	-67.19	9.62	5.09	14.16
5,116.00	37.63	282.320	4,813.34	-1,056.05	-950.16	-51.67	8.16	5.13	10.58
5,147.00	38.89	285.160	4,837.68	-1,051.49	-968.80	-35.10	6.98	4.06	9.16
5,179.00	40.78	288.070	4,862.26	-1,045.62	-988.43	-16.91	8.29	5.91	9.09
5,211.00	42.64	290.850	4,886.15	-1,038.52	-1,008.50	2.45	8.20	5.81	8.69
5,242.00	44.18	292.240	4,908.67	-1,030.69	-1,028.31	22.13	5.85	4.97	4.48
5,273.00	45.96	293.210	4,930.56	-1,022.21	-1,048.55	42.57	6.15	5.74	3.13
5,304.00	48.18	294.460	4,951.67	-1,013.03	-1,069.31	63.87	7.75	7.16	4.03
5,336.00	50.25	295.490	4,972.57	-1,002.80	-1,091.27	86.76	6.91	6.47	3.22
5,367.00	52.37	296.810	4,991.95	-992.13	-1,112.99	109.79	7.60	6.84	4.26
5,398.00	54.56	298.140	5,010.41	-980.64	-1,135.08	133.66	7.86	7.06	4.29
5,430.00	54.87	298.410	5,028.89	-968.27	-1,158.09	158.79	1.19	0.97	0.84
5,461.00	54.54	298.030	5,046.80	-956.30	-1,180.38	183.13	1.46	-1.06	-1.23
5,492.00	56.13	298.630	5,064.43	-944.20	-1,202.82	207.68	5.37	5.13	1.94
5,524.00	58.31	300.360	5,081.76	-930.95	-1,226.24	233.71	8.19	6.81	5.41
5,555.00	60.95	301.780	5,097.43	-917.15	-1,249.14	259.77	9.39	8.52	4.58
5,587.00	63.30	302.600	5,112.39	-902.08	-1,273.08	287.45	7.69	7.34	2.56
5,618.00	65.56	303.780	5,125.77	-886.77	-1,296.47	314.91	8.06	7.29	3.81
5,649.00	68.01	305.440	5,137.99	-870.59	-1,319.92	343.01	9.31	7.90	5.35
5,671.49	70.26	306.479	5,146.00	-858.24	-1,336.93	363.82	10.92	10.03	4.62
FTP @ 5668.14 MD 5146.00 TVD									
5,681.00	71.22	306.910	5,149.14	-852.88	-1,344.12	372.72	10.92	10.04	4.53
5,712.00	73.81	308.450	5,158.45	-834.81	-1,367.52	402.10	9.60	8.35	4.97
5,744.00	76.78	310.020	5,166.57	-815.23	-1,391.49	432.94	10.42	9.28	4.91
5,775.00	79.07	311.180	5,173.06	-795.50	-1,414.50	463.20	8.24	7.39	3.74
5,797.00	80.47	311.889	5,176.97	-781.15	-1,430.71	484.82	7.09	6.34	3.22
330 ppd @ 5797 MD 5178.11 TVD									
5,807.00	81.10	312.210	5,178.57	-774.54	-1,438.04	494.69	7.09	6.35	3.21
5,838.00	84.14	313.550	5,182.55	-753.62	-1,460.56	525.42	10.70	9.81	4.32
5,869.00	87.10	314.520	5,184.92	-732.14	-1,482.78	556.33	10.05	9.55	3.13
5,901.00	87.75	314.940	5,186.35	-709.64	-1,505.49	588.29	2.42	2.03	1.31
5,932.00	89.37	315.160	5,187.13	-687.71	-1,527.38	619.28	5.27	5.23	0.71
5,995.00	90.48	314.920	5,187.22	-643.13	-1,571.90	682.27	1.80	1.76	-0.38
6,089.00	91.86	314.920	5,185.30	-576.77	-1,638.45	776.23	1.47	1.47	0.00
6,183.00	92.60	316.040	5,181.64	-509.80	-1,704.30	870.13	1.43	0.79	1.19
6,277.00	91.02	314.550	5,178.67	-443.03	-1,770.39	964.06	2.31	-1.68	-1.59



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 345 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 345 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)
6,372.00	91.80	314.990	5,176.33	-376.14	-1,837.82	1,059.02	0.94	0.82	0.46
6,466.00	89.92	314.150	5,174.92	-310.19	-1,904.77	1,153.00	2.19	-2.00	-0.89
6,560.00	89.34	313.030	5,175.53	-245.38	-1,972.85	1,246.99	1.34	-0.62	-1.19
6,654.00	90.31	313.220	5,175.82	-181.12	-2,041.46	1,340.98	1.05	1.03	0.20
6,749.00	92.10	313.630	5,173.82	-115.83	-2,110.43	1,435.95	1.93	1.88	0.43
6,843.00	90.52	313.010	5,171.67	-51.36	-2,178.80	1,529.91	1.81	-1.68	-0.66
6,937.00	91.44	313.470	5,170.06	13.02	-2,247.27	1,623.89	1.09	0.98	0.49
7,032.00	89.57	312.670	5,169.22	77.89	-2,316.66	1,718.87	2.14	-1.97	-0.84
7,126.00	89.44	311.480	5,170.04	140.88	-2,386.43	1,812.80	1.27	-0.14	-1.27
7,220.00	90.19	314.700	5,170.34	205.08	-2,455.07	1,906.78	3.52	0.80	3.43
7,315.00	90.80	315.150	5,169.52	272.17	-2,522.33	2,001.76	0.80	0.64	0.47
7,409.00	91.28	314.340	5,167.81	338.33	-2,589.08	2,095.74	1.00	0.51	-0.86
7,503.00	91.60	313.890	5,165.45	403.74	-2,656.54	2,189.71	0.59	0.34	-0.48
7,598.00	92.29	313.890	5,162.23	469.56	-2,724.97	2,284.65	0.73	0.73	0.00
7,692.00	90.82	314.270	5,159.67	534.93	-2,792.47	2,378.62	1.62	-1.56	0.40
7,787.00	91.38	314.240	5,157.85	601.21	-2,860.50	2,473.60	0.59	0.59	-0.03
7,880.00	89.86	314.680	5,156.84	666.34	-2,926.87	2,566.59	1.70	-1.63	0.47
7,975.00	90.72	314.060	5,156.36	732.78	-2,994.78	2,661.58	1.12	0.91	-0.65
8,069.00	88.77	314.500	5,156.78	798.40	-3,062.07	2,755.58	2.13	-2.07	0.47
8,163.00	89.61	314.080	5,158.11	864.03	-3,129.35	2,849.56	1.00	0.89	-0.45
8,257.00	87.89	314.330	5,160.16	929.55	-3,196.72	2,943.54	1.85	-1.83	0.27
8,351.00	88.25	313.750	5,163.33	994.86	-3,264.25	3,037.48	0.73	0.38	-0.62
8,446.00	88.72	312.940	5,165.84	1,060.04	-3,333.31	3,132.44	0.99	0.49	-0.85
8,540.00	89.65	312.780	5,167.18	1,123.98	-3,402.21	3,226.41	1.00	0.99	-0.17
8,634.00	90.67	312.790	5,166.91	1,187.82	-3,471.19	3,320.39	1.09	1.09	0.01
8,729.00	89.27	313.340	5,166.96	1,252.69	-3,540.60	3,415.37	1.58	-1.47	0.58
8,823.00	89.52	312.830	5,167.96	1,316.90	-3,609.25	3,509.35	0.60	0.27	-0.54
8,917.00	89.64	312.480	5,168.65	1,380.59	-3,678.38	3,603.32	0.39	0.13	-0.37
9,012.00	89.43	311.140	5,169.42	1,443.92	-3,749.18	3,698.24	1.43	-0.22	-1.41
9,106.00	90.27	313.440	5,169.66	1,507.16	-3,818.71	3,792.19	2.60	0.89	2.45
9,201.00	90.59	313.060	5,168.95	1,572.25	-3,887.90	3,887.18	0.52	0.34	-0.40
9,294.00	88.50	313.690	5,169.69	1,636.12	-3,955.50	3,980.16	2.35	-2.25	0.68
9,388.00	88.81	314.030	5,171.89	1,701.23	-4,023.26	4,074.13	0.49	0.33	0.36
9,483.00	89.45	313.040	5,173.34	1,766.66	-4,092.12	4,169.12	1.24	0.67	-1.04
9,577.00	88.58	315.260	5,174.95	1,832.12	-4,159.55	4,263.10	2.54	-0.93	2.36
9,672.00	88.68	314.500	5,177.22	1,899.13	-4,226.85	4,358.06	0.81	0.11	-0.80
9,766.00	88.17	315.510	5,179.81	1,965.58	-4,293.28	4,452.01	1.20	-0.54	1.07
9,861.00	88.44	313.320	5,182.62	2,032.03	-4,361.11	4,546.96	2.32	0.28	-2.31
9,955.00	88.62	314.530	5,185.03	2,097.22	-4,428.79	4,640.93	1.30	0.19	1.29
10,049.00	88.76	315.460	5,187.18	2,163.66	-4,495.24	4,734.89	1.00	0.15	0.99
10,143.00	89.99	314.730	5,188.20	2,230.24	-4,561.59	4,828.86	1.52	1.31	-0.78
10,237.00	91.09	314.070	5,187.32	2,296.00	-4,628.75	4,922.86	1.36	1.17	-0.70
Survey @ 10237 MD 5188.46 TVD									
10,241.50	91.09	314.070	5,187.23	2,299.13	-4,631.98	4,927.36	0.00	0.00	0.00



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 345 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 345 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)
LTP @ 10241.50 MD 5188.37 TVD									
10,279.00	91.09	314.070	5,186.52	2,325.21	-4,658.92	4,964.85	0.00	0.00	0.00
330 ppd @ 10279 MD 5187.66 TVD									
10,375.00	91.09	314.070	5,184.69	2,391.97	-4,727.88	5,060.83	0.00	0.00	0.00
Survey Proj. to 10375 MD 5185.83 TVD 1920 FNL 158 FWL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
401.00	400.98	3.23	1.43	MWD surveys
3,434.50	3,291.54	-585.98	-471.09	9 5/8" Casing @ 3434.50 MD 3292.02 TVD
5,671.49	5,146.00	-858.24	-1,336.93	FTP @ 5668.14 MD 5146.00 TVD
5,797.00	5,176.97	-781.15	-1,430.71	330 ppd @ 5797 MD 5178.11 TVD
10,237.00	5,187.32	2,296.00	-4,628.75	Survey @ 10237 MD 5188.46 TVD
10,241.50	5,187.23	2,299.13	-4,631.98	LTP @ 10241.50 MD 5188.37 TVD
10,279.00	5,186.52	2,325.21	-4,658.92	330 ppd @ 10279 MD 5187.66 TVD
10,375.00	5,184.69	2,391.97	-4,727.88	Survey Proj. to 10375 MD 5185.83 TVD 1920 FNL 158 FWL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 345 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 345 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 345 H, Surf loc: 1027 FSL 356 FEL Section 02-T22N-R07W		
Well Position	+N/-S	0.00 ft	Northing: 1,879,087.903 usft
	+E/-W	0.00 ft	Easting: 2,810,639.945 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36.163894000
		Longitude:	-107.536735000
		Ground Level:	7,003.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/22/2022	8.60	62.71	49,190.02868651

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		314.063

Survey Program	Date	8/29/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
401.00	3,375.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
3,453.00	10,237.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
10,375.00	10,375.00	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	1,879,087.903	2,810,639.945	36.163894000	-107.536735000
401.00	1.01	23.830	400.98	3.23	1.43	1,879,091.136	2,810,641.373	36.163902869	-107.536730129
MWD surveys									
492.00	1.32	32.350	491.96	4.85	2.31	1,879,092.755	2,810,642.258	36.163907310	-107.536727115
583.00	1.30	37.070	582.94	6.56	3.50	1,879,094.464	2,810,643.441	36.163911995	-107.536723089
675.00	1.26	42.090	674.91	8.14	4.80	1,879,096.047	2,810,644.748	36.163916333	-107.536718644
765.00	0.62	55.510	764.90	9.15	5.87	1,879,097.057	2,810,645.813	36.163919099	-107.536715027
855.00	0.50	53.130	854.90	9.67	6.58	1,879,097.569	2,810,646.528	36.163920498	-107.536712598
946.00	0.34	41.160	945.89	10.11	7.08	1,879,098.010	2,810,647.023	36.163921706	-107.536710915
1,037.00	0.23	51.920	1,036.89	10.42	7.40	1,879,098.326	2,810,647.345	36.163922572	-107.536709823



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 345 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 345 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	2.33	212.240	1,130.87	8.92	6.53	1,879,096.826	2,810,646.474	36.163918458	-107.536712789
1,226.00	4.73	217.090	1,225.68	4.16	3.14	1,879,092.067	2,810,643.081	36.163905415	-107.536724333
1,321.00	6.77	218.770	1,320.20	-3.33	-2.73	1,879,084.576	2,810,637.212	36.163884886	-107.536744293
1,416.00	9.73	220.050	1,414.21	-13.84	-11.41	1,879,074.063	2,810,628.538	36.163856078	-107.536773787
1,510.00	13.25	219.580	1,506.31	-28.23	-23.39	1,879,059.676	2,810,616.560	36.163816654	-107.536814517
1,605.00	16.95	218.960	1,598.01	-47.39	-39.03	1,879,040.510	2,810,600.910	36.163764136	-107.536867732
1,700.00	20.00	218.760	1,688.11	-70.83	-57.92	1,879,017.068	2,810,582.028	36.163699898	-107.536931945
1,794.00	22.08	220.030	1,775.83	-96.90	-79.35	1,878,991.002	2,810,560.598	36.163628473	-107.537004813
1,889.00	21.00	219.300	1,864.20	-123.75	-101.61	1,878,964.157	2,810,538.331	36.163554913	-107.537080525
1,983.00	19.69	218.730	1,952.33	-149.13	-122.19	1,878,938.768	2,810,517.754	36.163485341	-107.537150497
2,078.00	21.92	219.520	2,041.13	-175.30	-143.49	1,878,912.601	2,810,496.455	36.163413636	-107.537222926
2,172.00	21.67	219.180	2,128.41	-202.29	-165.62	1,878,885.614	2,810,474.325	36.163339684	-107.537298174
2,266.00	20.57	218.680	2,216.10	-228.63	-186.91	1,878,859.268	2,810,453.040	36.163267489	-107.537370556
2,361.00	22.02	218.210	2,304.61	-255.66	-208.35	1,878,832.245	2,810,431.593	36.163193434	-107.537443493
2,455.00	21.22	218.580	2,392.00	-282.80	-229.86	1,878,805.100	2,810,410.084	36.163119043	-107.537516639
2,549.00	23.62	218.120	2,478.88	-310.92	-252.10	1,878,776.982	2,810,387.847	36.163041987	-107.537592262
2,644.00	23.51	218.020	2,565.96	-340.82	-275.52	1,878,747.082	2,810,364.428	36.162960046	-107.537671909
2,738.00	22.69	217.810	2,652.42	-369.92	-298.18	1,878,717.988	2,810,341.765	36.162880311	-107.537748985
2,832.00	23.40	218.720	2,738.92	-398.80	-320.97	1,878,689.100	2,810,318.974	36.162801146	-107.537826492
2,926.00	22.84	218.970	2,825.37	-427.55	-344.12	1,878,660.353	2,810,295.825	36.162722367	-107.537905213
3,020.00	24.63	218.900	2,911.42	-456.98	-367.90	1,878,630.923	2,810,272.049	36.162641719	-107.537986062
3,114.00	24.32	218.450	2,996.97	-487.38	-392.23	1,878,600.520	2,810,247.713	36.162558404	-107.538068821
3,208.00	23.62	218.990	3,082.86	-517.18	-416.12	1,878,570.724	2,810,223.828	36.162476751	-107.538150043
3,302.00	22.58	218.920	3,169.33	-545.86	-439.30	1,878,542.046	2,810,200.641	36.162398163	-107.538228889
3,434.50	22.87	217.865	3,291.54	-585.98	-471.09	1,878,501.928	2,810,168.856	36.162288222	-107.538336980
9 5/8" Casing @ 3434.50 MD 3292.02 TVD									
3,547.00	23.12	216.990	3,395.10	-620.88	-497.80	1,878,467.029	2,810,142.149	36.162192573	-107.538427816
3,641.00	25.02	217.860	3,480.92	-651.31	-521.10	1,878,436.591	2,810,118.843	36.162109153	-107.538507082
3,735.00	25.25	217.240	3,566.02	-682.97	-545.44	1,878,404.937	2,810,094.511	36.162022398	-107.538589839
3,830.00	24.82	216.340	3,652.10	-715.16	-569.51	1,878,372.744	2,810,070.433	36.161934164	-107.538671736
3,924.00	24.37	215.850	3,737.57	-746.77	-592.56	1,878,341.133	2,810,047.384	36.161847516	-107.538750145
4,019.00	23.82	215.910	3,824.29	-778.20	-615.29	1,878,309.708	2,810,024.654	36.161761380	-107.538827472
4,113.00	22.64	215.170	3,910.67	-808.36	-636.85	1,878,279.544	2,810,003.099	36.161678695	-107.538900803
4,207.00	24.93	218.280	3,996.68	-838.71	-659.55	1,878,249.198	2,809,980.401	36.161595521	-107.538978009
4,302.00	24.67	218.010	4,082.92	-870.04	-684.16	1,878,217.860	2,809,955.788	36.161509638	-107.539061710
4,396.00	22.74	217.270	4,168.99	-899.96	-707.24	1,878,187.943	2,809,932.704	36.161427645	-107.539140220
4,490.00	24.07	217.750	4,255.25	-929.58	-729.98	1,878,158.327	2,809,909.965	36.161346477	-107.539217555
4,583.00	20.79	215.780	4,341.21	-957.97	-751.25	1,878,129.933	2,809,888.698	36.161268654	-107.539289891
4,678.00	21.14	219.620	4,429.92	-984.85	-772.03	1,878,103.058	2,809,867.916	36.161195000	-107.539360572
4,772.00	23.88	218.750	4,516.75	-1,012.75	-794.75	1,878,075.158	2,809,845.193	36.161118543	-107.539437835
4,802.00	26.09	219.100	4,543.94	-1,022.60	-802.72	1,878,065.301	2,809,837.231	36.161091533	-107.539464909
4,834.00	25.74	224.490	4,572.73	-1,033.02	-812.02	1,878,054.882	2,809,827.922	36.161062989	-107.539496551
4,865.00	26.33	233.100	4,600.59	-1,041.96	-822.24	1,878,045.949	2,809,817.703	36.161038533	-107.539531260
4,896.00	28.08	242.720	4,628.18	-1,049.43	-834.23	1,878,038.473	2,809,805.714	36.161018096	-107.539571951
4,927.00	29.85	251.500	4,655.31	-1,055.23	-848.04	1,878,032.678	2,809,791.906	36.161002291	-107.539618787
4,959.00	30.46	258.100	4,682.99	-1,059.43	-863.53	1,878,028.477	2,809,776.413	36.160990880	-107.539671316
4,991.00	31.54	264.950	4,710.42	-1,061.84	-879.81	1,878,026.067	2,809,760.134	36.160984395	-107.539726490
5,022.00	33.17	270.570	4,736.62	-1,062.47	-896.37	1,878,025.438	2,809,743.572	36.160982803	-107.539782600
5,053.00	34.41	274.510	4,762.38	-1,061.69	-913.59	1,878,026.211	2,809,726.358	36.160985070	-107.539840911
5,085.00	36.04	279.040	4,788.53	-1,059.50	-931.90	1,878,028.402	2,809,708.043	36.160991240	-107.539902933
5,116.00	37.63	282.320	4,813.34	-1,056.05	-950.16	1,878,031.854	2,809,689.788	36.161000876	-107.539964738
5,147.00	38.89	285.160	4,837.68	-1,051.49	-968.80	1,878,036.419	2,809,671.147	36.161013571	-107.540027840
5,179.00	40.78	288.070	4,862.26	-1,045.62	-988.43	1,878,042.289	2,809,651.513	36.161029858	-107.540094294
5,211.00	42.64	290.850	4,886.15	-1,038.52	-1,008.50	1,878,049.389	2,809,631.446	36.161049529	-107.540162201
5,242.00	44.18	292.240	4,908.67	-1,030.69	-1,028.31	1,878,057.215	2,809,611.634	36.161071193	-107.540229238



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 345 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 345 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
5,273.00	45.96	293.210	4,930.56	-1,022.21	-1,048.55	1,878,065.695	2,809,591.393	36.161094657	-107.540297721
5,304.00	48.18	294.460	4,951.67	-1,013.03	-1,069.31	1,878,074.871	2,809,570.635	36.161120035	-107.540367948
5,336.00	50.25	295.490	4,972.57	-1,002.80	-1,091.27	1,878,085.103	2,809,548.675	36.161148326	-107.540442238
5,367.00	52.37	296.810	4,991.95	-992.13	-1,112.99	1,878,095.770	2,809,526.959	36.161177808	-107.540515696
5,398.00	54.56	298.140	5,010.41	-980.64	-1,135.08	1,878,107.264	2,809,504.864	36.161209567	-107.540590429
5,430.00	54.87	298.410	5,028.89	-968.27	-1,158.09	1,878,119.638	2,809,481.859	36.161243749	-107.540668234
5,461.00	54.54	298.030	5,046.80	-956.30	-1,180.38	1,878,131.602	2,809,459.565	36.161276801	-107.540743637
5,492.00	56.13	298.630	5,064.43	-944.20	-1,202.82	1,878,143.703	2,809,437.123	36.161310227	-107.540819539
5,524.00	58.31	300.360	5,081.76	-930.95	-1,226.24	1,878,156.951	2,809,413.711	36.161346816	-107.540898717
5,555.00	60.95	301.780	5,097.43	-917.15	-1,249.14	1,878,170.757	2,809,390.807	36.161384930	-107.540976166
5,587.00	63.30	302.600	5,112.39	-902.08	-1,273.08	1,878,185.827	2,809,366.872	36.161426527	-107.541057099
5,618.00	65.56	303.780	5,125.77	-886.77	-1,296.47	1,878,201.135	2,809,343.474	36.161468774	-107.541136209
5,649.00	68.01	305.440	5,137.99	-870.59	-1,319.92	1,878,217.319	2,809,320.030	36.161513425	-107.541215462
5,671.49	70.26	306.479	5,146.00	-858.24	-1,336.93	1,878,229.660	2,809,303.022	36.161547467	-107.541272956
FTP @ 5668.14 MD 5146.00 TVD									
5,681.00	71.22	306.910	5,149.14	-852.88	-1,344.12	1,878,235.024	2,809,295.823	36.161562263	-107.541297287
5,712.00	73.81	308.450	5,158.45	-834.81	-1,367.52	1,878,253.097	2,809,272.427	36.161612105	-107.541376362
5,744.00	76.78	310.020	5,166.57	-815.23	-1,391.49	1,878,272.674	2,809,248.458	36.161666081	-107.541457361
5,775.00	79.07	311.180	5,173.06	-795.50	-1,414.50	1,878,292.401	2,809,225.445	36.161720463	-107.541535124
5,797.00	80.47	311.889	5,176.97	-781.15	-1,430.71	1,878,306.756	2,809,209.239	36.161760032	-107.541589877
330 ppd @ 5797 MD 5178.11 TVD									
5,807.00	81.10	312.210	5,178.57	-774.54	-1,438.04	1,878,313.367	2,809,201.910	36.161778254	-107.541614641
5,838.00	84.14	313.550	5,182.55	-753.62	-1,460.56	1,878,334.285	2,809,179.386	36.161835902	-107.541690732
5,869.00	87.10	314.520	5,184.92	-732.14	-1,482.78	1,878,355.768	2,809,157.167	36.161895101	-107.541765782
5,901.00	87.75	314.940	5,186.35	-709.64	-1,505.49	1,878,378.265	2,809,134.457	36.161957091	-107.541842490
5,932.00	89.37	315.160	5,187.13	-687.71	-1,527.38	1,878,400.197	2,809,112.563	36.162017520	-107.541916435
5,995.00	90.48	314.920	5,187.22	-643.13	-1,571.90	1,878,444.775	2,809,068.048	36.162140346	-107.542066789
6,089.00	91.86	314.920	5,185.30	-576.77	-1,638.45	1,878,511.134	2,809,001.502	36.162323190	-107.542291550
6,183.00	92.60	316.040	5,181.64	-509.80	-1,704.30	1,878,578.104	2,808,935.645	36.162507704	-107.542513977
6,277.00	91.02	314.550	5,178.67	-443.03	-1,770.39	1,878,644.876	2,808,869.557	36.162691674	-107.542737189
6,372.00	91.80	314.990	5,176.33	-376.14	-1,837.82	1,878,711.760	2,808,802.134	36.162875964	-107.542964923
6,466.00	89.92	314.150	5,174.92	-310.19	-1,904.77	1,878,777.716	2,808,735.180	36.163057701	-107.543191077
6,560.00	89.34	313.030	5,175.53	-245.38	-1,972.85	1,878,842.525	2,808,667.099	36.163236297	-107.543421062
6,654.00	90.31	313.220	5,175.82	-181.12	-2,041.46	1,878,906.782	2,808,598.493	36.163413377	-107.543652832
6,749.00	92.10	313.630	5,173.82	-115.83	-2,110.43	1,878,972.068	2,808,529.516	36.163593289	-107.543885854
6,843.00	90.52	313.010	5,171.67	-51.36	-2,178.80	1,879,036.539	2,808,461.148	36.163770957	-107.544116818
6,937.00	91.44	313.470	5,170.06	13.02	-2,247.27	1,879,100.924	2,808,392.681	36.163948387	-107.544348120
7,032.00	89.57	312.670	5,169.22	77.89	-2,316.66	1,879,165.793	2,808,323.288	36.164127154	-107.544582555
7,126.00	89.44	311.480	5,170.04	140.88	-2,386.43	1,879,228.779	2,808,253.519	36.164300751	-107.544818285
7,220.00	90.19	314.700	5,170.34	205.08	-2,455.07	1,879,292.985	2,808,184.882	36.164477692	-107.545050166
7,315.00	90.80	315.150	5,169.52	272.17	-2,522.33	1,879,360.069	2,808,117.622	36.164662526	-107.545277356
7,409.00	91.28	314.340	5,167.81	338.33	-2,589.08	1,879,426.229	2,808,050.871	36.164844816	-107.545502833
7,503.00	91.60	313.890	5,165.45	403.74	-2,656.54	1,879,491.641	2,807,983.406	36.165025059	-107.545730736
7,598.00	92.29	313.890	5,162.23	469.56	-2,724.97	1,879,557.464	2,807,914.982	36.165206436	-107.545961885
7,692.00	90.82	314.270	5,159.67	534.93	-2,792.47	1,879,622.830	2,807,847.483	36.165386551	-107.546189909
7,787.00	91.38	314.240	5,157.85	601.21	-2,860.50	1,879,689.114	2,807,779.453	36.165569190	-107.546419720
7,880.00	89.86	314.680	5,156.84	666.34	-2,926.87	1,879,754.246	2,807,713.081	36.165748652	-107.546643927
7,975.00	90.72	314.060	5,156.36	732.78	-2,994.78	1,879,820.676	2,807,645.173	36.165931693	-107.546873325
8,069.00	88.77	314.500	5,156.78	798.40	-3,062.07	1,879,886.300	2,807,577.879	36.166112511	-107.547100653
8,163.00	89.61	314.080	5,158.11	864.03	-3,129.35	1,879,951.932	2,807,510.600	36.166293352	-107.547327931
8,257.00	87.89	314.330	5,160.16	929.55	-3,196.72	1,880,017.453	2,807,443.235	36.166473889	-107.547555504
8,351.00	88.25	313.750	5,163.33	994.86	-3,264.25	1,880,082.760	2,807,375.702	36.166653840	-107.547783650
8,446.00	88.72	312.940	5,165.84	1,060.04	-3,333.31	1,880,147.944	2,807,306.640	36.166833462	-107.548016977
8,540.00	89.65	312.780	5,167.18	1,123.98	-3,402.21	1,880,211.876	2,807,237.744	36.167009646	-107.548249754
8,634.00	90.67	312.790	5,166.91	1,187.82	-3,471.19	1,880,275.724	2,807,168.758	36.167185598	-107.548482839



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Chaco Unit 345 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 345 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	
8,729.00	89.27	313.340	5,166.96	1,252.69	-3,540.60	1,880,340.591	2,807,099.355	36.167364351	-107.548717327	
8,823.00	89.52	312.830	5,167.96	1,316.90	-3,609.25	1,880,404.797	2,807,030.707	36.167541283	-107.548949264	
8,917.00	89.64	312.480	5,168.65	1,380.59	-3,678.38	1,880,468.487	2,806,961.577	36.167716803	-107.549182841	
9,012.00	89.43	311.140	5,169.42	1,443.92	-3,749.18	1,880,531.817	2,806,890.772	36.167891343	-107.549422098	
9,106.00	90.27	313.440	5,169.66	1,507.16	-3,818.71	1,880,595.062	2,806,821.241	36.168065643	-107.549657039	
9,201.00	90.59	313.060	5,168.95	1,572.25	-3,887.90	1,880,660.153	2,806,752.049	36.168245006	-107.549890818	
9,294.00	88.50	313.690	5,169.69	1,636.12	-3,955.50	1,880,724.016	2,806,684.455	36.168420987	-107.550119191	
9,388.00	88.81	314.030	5,171.89	1,701.23	-4,023.26	1,880,789.131	2,806,616.697	36.168600404	-107.550348112	
9,483.00	89.45	313.040	5,173.34	1,766.66	-4,092.12	1,880,854.557	2,806,547.836	36.168780688	-107.550580768	
9,577.00	88.58	315.260	5,174.95	1,832.12	-4,159.55	1,880,920.017	2,806,480.404	36.168961052	-107.550808582	
9,672.00	88.68	314.500	5,177.22	1,899.13	-4,226.85	1,880,987.032	2,806,413.108	36.169145684	-107.551035920	
9,766.00	88.17	315.510	5,179.81	1,965.58	-4,293.28	1,881,053.479	2,806,346.672	36.169328751	-107.551260353	
9,861.00	88.44	313.320	5,182.62	2,032.03	-4,361.11	1,881,119.932	2,806,278.849	36.169511842	-107.551489487	
9,955.00	88.62	314.530	5,185.03	2,097.22	-4,428.79	1,881,185.118	2,806,211.169	36.169691455	-107.551718147	
10,049.00	88.76	315.460	5,187.18	2,163.66	-4,495.24	1,881,251.562	2,806,144.713	36.169874511	-107.551942648	
10,143.00	89.99	314.730	5,188.20	2,230.24	-4,561.59	1,881,318.134	2,806,078.361	36.170057919	-107.552166799	
10,237.00	91.09	314.070	5,187.32	2,296.00	-4,628.75	1,881,383.898	2,806,011.205	36.170239112	-107.552393682	
Survey @ 10237 MD 5188.46 TVD										
10,241.50	91.09	314.070	5,187.23	2,299.13	-4,631.98	1,881,387.028	2,806,007.973	36.170247734	-107.552404603	
LTP @ 10241.50 MD 5188.37 TVD										
10,279.00	91.09	314.070	5,186.52	2,325.21	-4,658.92	1,881,413.106	2,805,981.034	36.170319587	-107.552495617	
330 ppd @ 10279 MD 5187.66 TVD										
10,375.00	91.09	314.070	5,184.69	2,391.97	-4,727.88	1,881,479.865	2,805,912.072	36.170503528	-107.552728613	
Survey Proj. to 10375 MD 5185.83 TVD 1920 FNL 158 FWL										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
401.00	400.98	3.23	1.43	MWD surveys	
3,434.50	3,291.54	-585.98	-471.09	9 5/8" Casing @ 3434.50 MD 3292.02 TVD	
5,671.49	5,146.00	-858.24	-1,336.93	FTP @ 5668.14 MD 5146.00 TVD	
5,797.00	5,176.97	-781.15	-1,430.71	330 ppd @ 5797 MD 5178.11 TVD	
10,237.00	5,187.32	2,296.00	-4,628.75	Survey @ 10237 MD 5188.46 TVD	
10,241.50	5,187.23	2,299.13	-4,631.98	LTP @ 10241.50 MD 5188.37 TVD	
10,279.00	5,186.52	2,325.21	-4,658.92	330 ppd @ 10279 MD 5187.66 TVD	
10,375.00	5,184.69	2,391.97	-4,727.88	Survey Proj. to 10375 MD 5185.83 TVD 1920 FNL 158 FWL	

Checked By: _____	Approved By: _____	Date: _____
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WELL NAME: S CHACO UNIT 345H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-H formation

API Number: 30-043-21279

AFE Number: DV03084

ER Well Number: NM08014.01

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 1,027 ft FSL 356 ft FEL

BH Location: 2-22N-07W Sec-Twn- Rng 1974 ft FNL 228 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)	365	ft
Int TD (MD)	3,410	ft
KOP (MD)	4,859	ft
KOP (TVD)	4,593	ft
Target (TVD)	5,172	ft
Curve BUR	10	°/100 ft
POE (MD)	5,837	ft
TD (MD)	10,364	ft
Lat Len (ft)	4,499	ft

WELL CONSTRUCTION SUMMARY:

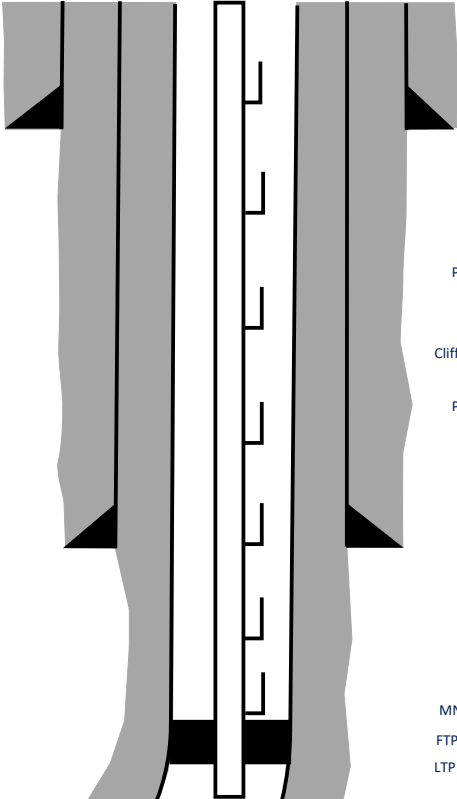
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	365	13.375	54.5	J-55	BTC	0	365
Intermediate	12.250	3,410	9.625	36.0	J-55	LTC	0	3,410
Production	8.500	10,364	5.500	20.0	HCP-110	TCBC-HT	0	10,364

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	698
Inter. (Tail)	Type III	14.6	1.38	6.64	0.3132	20%	2,919	136
Prod. (Lead)	Type III	12.4	2.360	13.4	0.2691	65%	0	543
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.2291	10%	4,376	963

COMPLETION / PRODUCTION SUMMARY:

Frac: 20 plug-and-perf stages with 180,000 bbls slickwater fluid and 7,000,000 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	2,016
Cliff House Basal	3,076	3,217
Menefee	3,111	3,256
Point Lookout	3,960	4,183
Mancos	4,151	4,376
MNCS A	4,466	4,725
MNCS B	4,564	4,843
MNCS C	4,644	4,931
MNCS Cms	4,688	4,979
MNCS D	4,816	5,125
MNCS E	4,946	5,294
MNCS F	4,996	5,371
MNCS G	5,071	5,512
MNCS H @ 0 VS	5,134	5,674
FTP (LP) TARGET	5,172	5,837
LTP (TD) TARGET	5,230	10,336

Well Name: S LYBROOK UNIT	Well Location: T22N / R7W / SEC 2 / SESE / 36.163894 / -107.536735	County or Parish/State: SANDOVAL / NM
Well Number: 345H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: N0G13121799	Unit or CA Name: S CHACO UT-MANCOS	Unit or CA Number: NMNM133321A
US Well Number: 3004321279	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Subsequent Report

Sundry ID: 2705873

Type of Submission: Subsequent Report

Date Sundry Submitted: 12/05/2022

Date Operation Actually Began: 09/30/2022

Type of Action: Hydraulic Fracturing

Time Sundry Submitted: 02:44

Actual Procedure: 9/30/2022 thru 10/4/2022- Pre frac site set up, MIRU, Pressure test 10/4/2022 thru 10/10/2022- 24 hour Frac Ops. 19 total stages, total holes 798. Perfed w 0.31" holes with SFT-NE45B, FRP-48H, CSA-2400, SCI-28H, & 5,896,390 lbs total proppant 10/27/2022 thru 10/29/2022 – Drilling out operations 10/29/2022 - tubing landed at 5,903' MD

SR Attachments

Actual Procedure

5_completion_SOUTH_LYBROOK_UNIT_345H_20221205144400.pdf

Well Name: S LYBROOK UNIT	Well Location: T22N / R7W / SEC 2 / SESE / 36.163894 / -107.536735	County or Parish/State: SANDOVAL / NM
Well Number: 345H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: N0G13121799	Unit or CA Name: S CHACO UT-MANCOS	Unit or CA Number: NMNM133321A
US Well Number: 3004321279	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KAYLA WHITE

Signed on: DEC 05, 2022 02:44 PM

Name: ENDURING RESOURCES LLC

Title: Staff Engineer

Street Address: 9446 CLERMONT ST

City: THORNTONState: CO

Phone: (720) 768-3575

Email address: KWHITE@CDHCONSULT.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Accepted

Disposition Date: 12/06/2022

Signature: Kenneth Rennick



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

Well Completion Print

12/07/2022

Operator Name ENDURING RESOURCES LLC SHL SESE Sec 2 22N 7W	Well Name S LYBROOK UNIT County SANDOVAL	Well Number 345H State NM	US Well Number 3004321279 Lease Number(s) N0G13121799
Well Type OIL WELL	Well Status Drilling Well	Agreement Name S CHACO UT- MANCOS	Agreement Number(s) NMNM133321A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name null	Well Pad Number null	ID 15CM0218AFEI

Section 1 - General

Well Completion Report Id:	Submission Date: 11-30-2022	
BLM Office: Farmington Field Office	User: KAYLA WHITE	Title: Staff Engineer
Federal/Indian: INDIAN	Lease Number: N0G13121799	Lease Acres:
Agreement in place?: NO	Federal or Indian Agreement:	
Agreement Number:	Agreement Name: S CHACO UT-	
Keep this Well Completion Report confidential?:		
APD Operator: ENDURING RESOURCES LLC		

Section 2 - Well

Field/Pool or Exploratory:	Pool Name: LYBROOK GALLUP	Field Name: LYBROOK GALLUP
Well Type: OIL WELL		
Spud Date: 05-16-2022		
Date Total Measured Depth Reached: 08-30-2022		
Drill & Abandon or Ready To Produce: READY TO		
Well Class: DIRECTIONAL		

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
OJO ALAMO	SANDSTONE, SILTSTONE		6042	977	977	USEABLE WATER	
KIRTLAND	SANDSTONE, SHALE, SILTSTONE		5930	1103	1103	USEABLE WATER	

Operator Name ENDURING RESOURCES LLC SHL SESE Sec 2 22N 7W	Well Name S LYBROOK UNIT	Well Number 345H	US Well Number 3004321279
	County SANDOVAL	State NM	Lease Number(s) N0G13121799
Well Type OIL WELL	Well Status Drilling Well	Agreement Name S CHACO UT- MANCOS	Agreement Number(s) NMNM133321A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name null	Well Pad Number null	ID 15CM0218AFEI

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
FRUITLAND	COAL, SANDSTONE, SHALE, SILTSTONE		5710	1249	1249	NATURAL GAS, USEABLE WATER	
PICTURED CLIFFS	SANDSTONE, SILTSTONE		5430	1562	1605	NATURAL GAS, USEABLE WATER	
CLIFFHOUSE	SANDSTONE		3940	3061	3208	NATURAL GAS	
MENEFEE	COAL, SANDSTONE, SHALE, SILTSTONE		3905	3092	3235	NATURAL GAS	
POINT LOOKOUT	SANDSTONE, SHALE		3056	3942	4113	NATURAL GAS	
MANCOS	SHALE, SILTSTONE		2865	4132	4396	NATURAL GAS, OIL	
GALLUP	SHALE, SILTSTONE		2550	4458	4678	NATURAL GAS, OIL	

Completion and Completed

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	NMNM133321A	N0G13121799	NEW		POW	11-01-2022	11-01-2022	GALLUP	4678	4834	Y	.31	798	OPEN

Operator Name ENDURING RESOURCES LLC SHL SESE Sec 2 22N 7W	Well Name S LYBROOK UNIT	Well Number 345H	US Well Number 3004321279
	County SANDOVAL	State NM	Lease Number(s) N0G13121799
Well Type OIL WELL	Well Status Drilling Well	Agreement Name S CHACO UT- MANCOS	Agreement Number(s) NMNM133321A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name null	Well Pad Number null	ID 15CM0218AFEI

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1					

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			FLows FROM WELL			

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	11/01/2022	24	0	840	63	0	64/64	385		740

Operator Name ENDURING RESOURCES LLC SHL SESE Sec 2 22N 7W	Well Name S LYBROOK UNIT	Well Number 345H	US Well Number 3004321279
	County SANDOVAL	State NM	Lease Number(s) N0G13121799
Well Type OIL WELL	Well Status Drilling Well	Agreement Name S CHACO UT- MANCOS	Agreement Number(s) NMNM133321A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name null	Well Pad Number null	ID 15CM0218AFEI

Well Location

Survey Type: RECTANGULAR

Survey Number:

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum:

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	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	SANDOVAL	36.163894	-107.536735		INDIAN	N0G13121799				1027	FSL	356	FEL	22N	7W	2	SESE
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.163894	-107.536735		INDIAN	N0G13121799				1027	FSL	356	FEL	22N	7W	2	SESE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.161547	-107.541273		INDIAN	N0G13111796				168	FSL	1690	FEL	22N	7W	2	SWSE
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.170248	-107.552405		INDIAN	N0G13121797				2014	FNL	256	FWL	22N	7W	2	SWNW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.170504	-107.552729		INDIAN	N0G13111797				1922	FNL	159	FWL	22N	7W	2	SWNW

Casing, Liner and Tubing

Operator Name ENDURING RESOURCES LLC SHL SESE Sec 2 22N 7W	Well Name S LYBROOK UNIT	Well Number 345H	US Well Number 3004321279
	County SANDOVAL	State NM	Lease Number(s) NOG13121799
Well Type OIL WELL	Well Status Drilling Well	Agreement Name S CHACO UT- MANCOS	Agreement Number(s) NMNM133321A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name null	Well Pad Number null	ID 15CM0218AFEI

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	17.5	0	365	13.375	54.5	J-55		BUTT		
00	INTERMEDIATE	12.25	0	3410	9.875	36	J-55		BUTT		
00	PRODUCTION	8.5	0	10364	5.5	20	P-110		BUTT		

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	365	3	350	1.39	0					86.6
00	INTERMEDIATE	3410	1/2	698	2.14	0	3	136	1.38	2887	299.5
00	PRODUCTION	10364	2/3	542	2.36	0	class G	963	1.57	4376	497.1

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		5903	5870	6	L-80		OTHER	EUE

Operator Name ENDURING RESOURCES LLC SHL SESE Sec 2 22N 7W	Well Name S LYBROOK UNIT	Well Number 345H	US Well Number 3004321279
	County SANDOVAL	State NM	Lease Number(s) N0G13121799
Well Type OIL WELL	Well Status Drilling Well	Agreement Name S CHACO UT- MANCOS	Agreement Number(s) NMNM133321A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name null	Well Pad Number null	ID 15CM0218AFEI

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:** KAYLA WHITE**Title:** Staff Engineer**Signed on:** 12/01/2022**Street Address:** 9446 CLERMONT ST**City:** THORNTON**State:** CO**Zip:** 80229**Phone:** (720)768-3575**Email address:** KWHITE@CDHCONSULT.COM**Field****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Extension:****Email address:****Attachments**

Operator Name ENDURING RESOURCES LLC SHL SESE Sec 2 22N 7W	Well Name S LYBROOK UNIT County SANDOVAL	Well Number 345H State NM	US Well Number 3004321279 Lease Number(s) N0G13121799
Well Type OIL WELL	Well Status Drilling Well	Agreement Name S CHACO UT- MANCOS	Agreement Number(s) NMNM133321A
Allottee/Tribe Name EASTERN NAVAJO	Well Pad Name null	Well Pad Number null	ID 15CM0218AFEI

Enduring_S_Chaco_345_H_final_svys_aug2922__12090__20221130093252.pdf

S_LYBROOK_UNIT__345H_As_Drilled_C_102_Plat__SIGNED_20221130093316.pdf

SLU_345H_WBD_20221130093318.pdf

List_of_Leases_SLU_345H_20221130093349.pdf

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED

OMB NO. 1004-

0137

Expires: January 31, 2018

5. Lease Serial No.

N0-G-1312-1799

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

NMNM133321A

2. Name of Operator

Enduring Resources IV LLC

8. Lease Name and Well No.

South Lybrook Unit 345H

3. Address

200 Energy Court Farmington NM 87402

3a. Phone No. (Include area code)

505-636-9743

9. API Well No.

30-043-21279

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

At surface

SHL: 1027' FSL & 356' FEL, Sec 2 T22N, R7W

BHL: 1922' FNL & 159' FWL, Sec 2 T22N, R7W

10. Field and Pool or Exploratory

Lybrook Gallup 330

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

Sec 2 T22N R7W

12. County or Parish

Sandoval

13. State

NM

At top prod. interval reported below At total depth

14. Date Spudded

5/16/2022

15. Date T.D. Reached

8/30/2022

16. Date Completed 11/1/2022

☐ D & A

☒ Ready to Prod.

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

6562' KB

18. Total Depth: **10,375' MD**

5186' TVD

19. Plug Back T.D.: **10,246' MD**

5186' TVD

20. Depth Bridge Plug Set:

MD

TVD

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

22. Was well cored?

☒ No

☐ Yes (Submit analysis)

Was DST run?

☒ No

☐ Yes (Submit report)

Directional Survey?

☐ No

☒ Yes (Submit copy)

Form 3160-4

(June 2015)

UNITED STATES

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

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8", J-55	54.5	0	365' MD		350	86.6	surface	
12-1/4"	9-5/8", J-55	36	0	3410' MD		834	299	surface	
8-1/2"	5-1/2", P-110	20	0	10375' MD		1505	496	surface	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8", 6.5#, L-80	5903'	5870'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
Gallup MNCS_A	4458' TVD	5233' TVD	5807' – 10225' MD	.31	798	

26. Perforation Record

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

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
5807' – 10225' MD	19 total stages, total holes 798. Perfed w 0.31" holes with SFT-NE45B, FRP-48H, CSA-2400, SCI-28H, & 5,896,390 lbs total proppant

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
11/1/2022	11/1/2022	24 hr	➡	0	840	63			Flowing
Choke Size	Tbg. Press.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	385	740	➡					Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
			➡						

Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
------------	-------------------	-------------	---------------	---------	---------	-----------	---------------	-------------

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

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
---------------------	-----------	--------------	-------------------	---------	---------	-----------	------------------------	-------------	-------------------

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
------------	----------------------	-------------	---------------	---------	---------	-----------	---------------	-------------

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
---------------------	-----------	--------------	-------------------	---------	---------	-----------	------------------------	-------------	-------------------

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
------------	----------------------	-------------	---------------	---------	---------	-----------	---------------	-------------

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

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, fl and shut-in pressures and recoveries.	31. Formation (Log) Markers
---	-----------------------------

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
-----------	-----	--------	------------------------------	------	--------------------

OJAM 977
 KRLD 1103
 FRLD 1249
 PCCF 1562
 CLFH (Basal) 3061
 MENF 3092
 PNK 3942
 MNCS 4132
 GALLUP
 (MNCS_A) 4458

32. Additional remarks (include plugging procedure).

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

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

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

Name (please print) Kayla White Title Environmental Engineer
 Signature Kayla White Date: 11/30/2022

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

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

ACKNOWLEDGMENTS

Action 164850

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 164850
	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
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 164850

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 164850
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	Going forward please indicate the Perforations and Production Pressure Test with duration on the AFMSS Hydraulic Fracturing Sundry and C-104 Perforations need to reflect the same Perforations on the AFMSS C-105 Completion Data information.	9/6/2023