

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-104 Revised July 9, 2024 Submit Electronically Via OCD Permitting
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Section 1 - Operator and Well Information

Submittal Type: ☐ Test Allowable (C-104RT) ☒ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: DJR OPERATING	OGRID:371838
Property Name and Well Number: NORTH ALAMITO UNIT 106H	Property Code: 325267
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-043-21508
Pool Name: NORTH ALAMITO UNIT MANCOS OIL POOL	Pool Code: 98174

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	19	23N	7W		897' FNL	1158' FEL	36.217323	-107.610489	SANDOVAL

Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
F	8/10/24	5957'-18385'	5266'-5265'

Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW): 361564	Communitization Agreement ☐ Yes ☒ No, Order No.
Surface Casing Action ID: 189212	Unit: ☒ Yes ☐ No, Order No. R-14081 R-14081A
Intermediate 1 Casing Action ID: 356733	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 356919	Surface Commingling: ☐ Yes ☒ No, Order No.
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID: 356919	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

X I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
X I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
X 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.	
Name Heather Huntington	
Title Permitting Technician	Date 9/26/24

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal ☐ Amended Report ☒ As Drilled

WELL LOCATION INFORMATION

API Number 30-043-21508	Pool Code 98174	Pool Name NORTH ALAMITO UNIT MANCOS OIL POOL
Property Code 325267	Property Name NORTH ALAMITO UNIT	Well Number 106H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 6962'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
A	19	23N	7W		897' NORTH	1158' EAST	36.217323° N	107.610489° W	SANDOVAL

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
K	28	23N	7W		1670' SOUTH	1421' WEST	36.195146° N	107.584028° W	SANDOVAL

Dedicated Acres SEC 19: LOT 1, NE/NW, SE/NW, NW/NE, SW/NE, SE/NE, NW/SE & NE/SE (320.82 AC.); SEC 20: NW/SW, SW/SW, SE/SW & SW/SE (160 AC.); SEC 29: NE/NW, NE/4 & NE/SE (240 AC.); SEC 28: SW/NW, NW/SW & NE/SW (120 AC.) = 840.82 ACRES	PENETRATED SPACING UNIT;	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
				N	Unitization
Order Numbers: R-14081 R-14081A			Well Setbacks are under Common Ownership: ☐ Yes ☐ No		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
C	19	23N	7W		774' NORTH	2011' WEST	36.217672° N	107.617466° W	SANDOVAL

Fist Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
C	19	23N	7W		1027' NORTH	2277' WEST	36.216975° N	107.616563° W	SANDOVAL

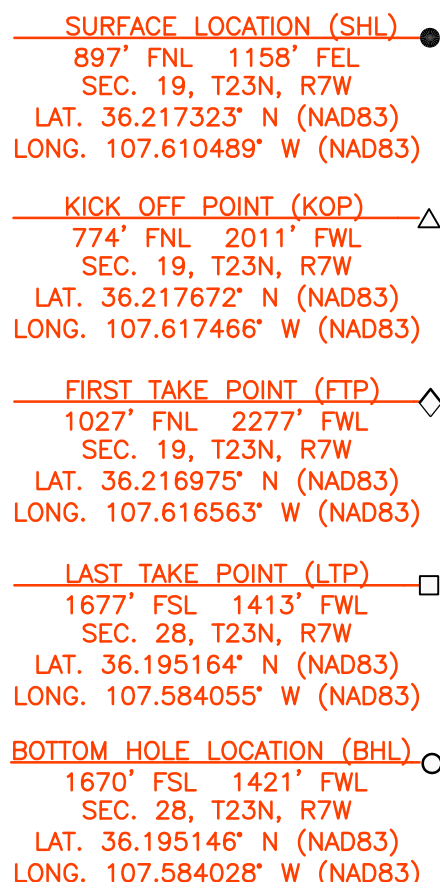
Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
K	28	23N	7W		1677' SOUTH	1413' WEST	36.195164° N	107.584055° W	SANDOVAL

Unitized Area or Area of Uniform Interest NORTH ALAMITO	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
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OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. Heather Huntington Signature 9/13/24 Date Heather Huntington Printed Name hhuntington@enduringresources.com E-mail Address	<p>SURVEYOR CERTIFICATIONS</p> <p>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.</p> <div></div> <div><div colspan="2">Signature and Seal of Professional Surveyor:</div></div> <div><div>Certificate Number</div><div>11393</div></div> <div><div>Date of Survey</div><div>JUNE 20, 2024</div></div>
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Note: 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.





Well: North Alamito Unit 106 H
Site: North Alamito Unit (102 & 106)
Project: Sandoval County, New Mexico NAD83 NM C
Design: MWD surveys
Rig: Ensign 140

ANNOTATIONS SURVEYS

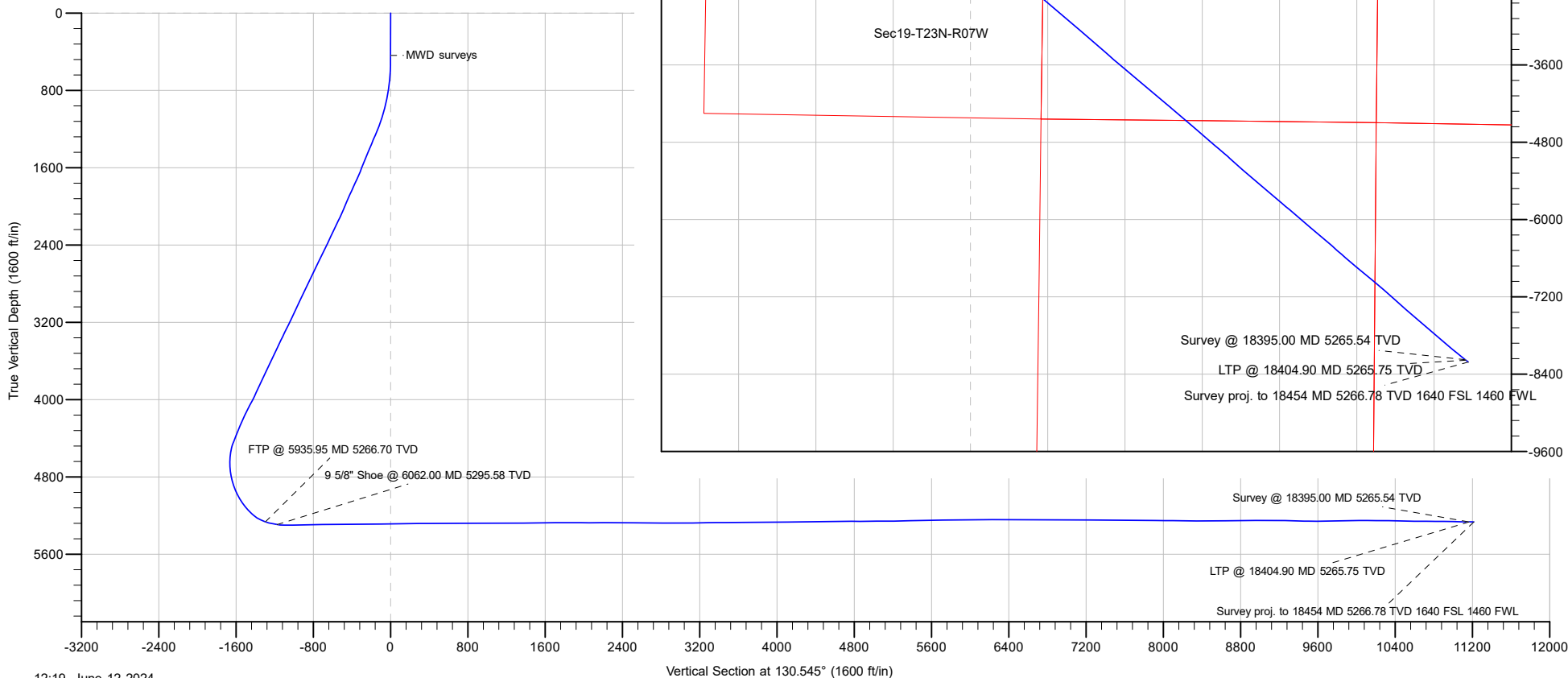
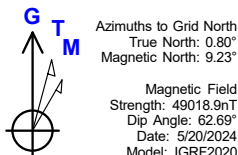
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation
440.00	0.15	292.320	440.00	0.22	-0.53	-0.55	MWD surveys
5935.95	69.94	131.205	5266.70	-101.36	-1793.48	-1296.96	FTP @ 5935.95 MD 5266.70 TVD
6062.00	82.86	128.618	5295.58	-178.38	-1698.31	-1174.59	9 5/8" Shoe @ 6062.00 MD 5295.58 TVD
18395.00	89.80	128.060	5265.54	-8175.72	7687.09	11155.97	Survey @ 18395.00 MD 5265.54 TVD
18404.90	88.80	128.060	5265.75	-8181.82	7694.88	11165.86	LTP @ 18404.90 MD 5265.75 TVD
18454.00	88.80	128.060	5266.78	-8212.08	7733.53	11214.90	Survey proj. to 18454 MD 5266.78 TVD 1640 FSL 1460 FWL



Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6962+23.5 @ 6985.50ft (Ensign 140)

Surface location:
Northing: 1901187.19 Easting: 1239103.39 Latitude: 36.21732300 Longitude: -107.61048900

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 9.23°



12:19, June 12 2024



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

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

Site	North Alamito Unit (102 & 106)		
Site Position:		Northing:	1,901,167.83 usft
From:	Lat/Long	Easting:	1,239,107.83 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.21727000
		Longitude:	-107.61047300

Well	North Alamito Unit 106 H, Surf loc: 897 FNL 1158 FEL Section 19-T23N-R07W		
Well Position	+N/-S	0.00 ft	Northing: 1,901,187.20 usft
	+E/-W	0.00 ft	Easting: 1,239,103.38 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	-0.80 °	Ground Level:	6,962.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/20/2024	8.43	62.69	49,018.93121944

Design	MWD surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	130.545	

Survey Program	Date	6/12/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
440.00	5,973.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
6,091.00	18,395.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
18,454.00	18,454.00	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	
440.00	0.15	292.320	440.00	0.22	-0.53	-0.55	0.03	0.03	0.00	
MWD surveys										
485.00	0.07	283.750	485.00	0.25	-0.61	-0.63	0.18	-0.18	-19.04	
574.00	2.32	274.340	573.97	0.40	-2.46	-2.13	2.53	2.53	-10.57	
664.00	5.59	282.320	663.75	1.47	-8.56	-7.46	3.68	3.63	8.87	
753.00	8.18	282.950	752.10	3.81	-18.97	-16.90	2.91	2.91	0.71	
843.00	11.42	282.770	840.77	7.22	-33.90	-30.46	3.60	3.60	-0.20	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
932.00	14.53	280.130	927.49	11.13	-53.49	-47.89	3.56	3.49	-2.97
1,021.00	17.53	278.070	1,013.02	14.98	-77.76	-68.83	3.43	3.37	-2.31
1,115.00	21.47	278.900	1,101.61	19.63	-108.78	-95.42	4.20	4.19	0.88
1,208.00	25.50	276.730	1,186.89	24.61	-145.50	-126.56	4.43	4.33	-2.33
1,302.00	27.93	276.550	1,270.85	29.49	-187.47	-161.63	2.59	2.59	-0.19
1,394.00	26.71	275.230	1,352.59	33.84	-229.46	-196.36	1.48	-1.33	-1.43
1,487.00	27.63	275.000	1,435.33	37.62	-271.76	-230.97	1.00	0.99	-0.25
1,579.00	27.41	274.410	1,516.92	41.11	-314.13	-265.43	0.38	-0.24	-0.64
1,674.00	26.52	272.650	1,601.59	43.77	-357.12	-299.82	1.26	-0.94	-1.85
1,764.00	27.27	273.700	1,681.86	46.03	-397.77	-332.18	0.99	0.83	1.17
1,856.00	31.25	273.100	1,762.10	48.68	-442.64	-368.01	4.34	4.33	-0.65
1,948.00	29.98	270.420	1,841.28	50.14	-489.46	-404.53	2.03	-1.38	-2.91
2,037.00	29.76	271.350	1,918.46	50.82	-533.78	-438.66	0.58	-0.25	1.04
2,127.00	29.14	270.870	1,996.83	51.68	-578.02	-472.83	0.74	-0.69	-0.53
2,216.00	28.76	272.640	2,074.71	53.00	-621.08	-506.41	1.05	-0.43	1.99
2,306.00	30.93	275.720	2,152.77	56.30	-665.73	-542.48	2.95	2.41	3.42
2,395.00	30.79	273.640	2,229.17	60.03	-711.22	-579.47	1.21	-0.16	-2.34
2,484.00	30.14	277.760	2,305.89	64.49	-756.10	-616.48	2.46	-0.73	4.63
2,574.00	29.37	276.220	2,384.03	69.93	-800.43	-653.70	1.21	-0.86	-1.71
2,663.00	30.58	276.480	2,461.12	74.85	-844.62	-690.48	1.37	1.36	0.29
2,752.00	30.81	275.510	2,537.65	79.60	-889.80	-727.90	0.61	0.26	-1.09
2,842.00	30.19	274.760	2,615.20	83.69	-935.30	-765.13	0.81	-0.69	-0.83
2,931.00	31.27	277.830	2,691.71	88.69	-980.49	-802.72	2.14	1.21	3.45
3,020.00	29.26	277.760	2,768.57	94.78	-1,024.93	-840.45	2.26	-2.26	-0.08
3,110.00	29.40	276.760	2,847.04	100.35	-1,068.66	-877.30	0.57	0.16	-1.11
3,199.00	29.65	276.290	2,924.48	105.33	-1,112.23	-913.65	0.38	0.28	-0.53
3,289.00	29.86	276.250	3,002.61	110.21	-1,156.63	-950.56	0.23	0.23	-0.04
3,379.00	29.36	275.720	3,080.86	114.85	-1,200.86	-987.18	0.63	-0.56	-0.59
3,468.00	30.77	276.560	3,157.88	119.62	-1,245.18	-1,023.97	1.65	1.58	0.94
3,557.00	31.35	276.280	3,234.12	124.76	-1,290.81	-1,061.98	0.67	0.65	-0.31
3,647.00	29.74	275.030	3,311.63	129.27	-1,336.33	-1,099.50	1.92	-1.79	-1.39
3,736.00	31.28	274.420	3,388.31	132.99	-1,381.36	-1,136.14	1.76	1.73	-0.69
3,826.00	31.60	273.950	3,465.09	136.41	-1,428.17	-1,173.94	0.45	0.36	-0.52
3,915.00	29.76	271.550	3,541.64	138.62	-1,473.52	-1,209.83	2.48	-2.07	-2.70
4,005.00	31.17	275.450	3,619.22	141.44	-1,519.04	-1,246.25	2.70	1.57	4.33
4,094.00	30.48	275.900	3,695.64	145.94	-1,564.42	-1,283.67	0.82	-0.78	0.51
4,184.00	28.74	274.410	3,773.89	149.95	-1,608.71	-1,319.93	2.10	-1.93	-1.66
4,273.00	30.63	277.050	3,851.21	154.38	-1,652.55	-1,356.12	2.58	2.12	2.97
4,363.00	28.99	275.760	3,929.30	159.39	-1,697.00	-1,393.15	1.96	-1.82	-1.43
4,452.00	30.92	274.970	4,006.41	163.53	-1,741.25	-1,429.47	2.21	2.17	-0.89
4,541.00	32.87	274.980	4,081.96	167.61	-1,788.09	-1,467.72	2.19	2.19	0.01
4,631.00	32.80	274.260	4,157.59	171.54	-1,836.73	-1,507.23	0.44	-0.08	-0.80
4,720.00	27.52	271.990	4,234.51	174.05	-1,881.35	-1,542.77	6.07	-5.93	-2.55



Survey Report



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Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,810.00	26.43	272.700	4,314.72	175.71	-1,922.14	-1,574.85	1.26	-1.21	0.79	
4,899.00	28.08	274.320	4,393.84	178.22	-1,962.82	-1,607.39	2.03	1.85	1.82	
4,944.00	26.78	271.380	4,433.78	179.27	-1,983.52	-1,623.80	4.17	-2.89	-6.53	
4,989.00	24.69	266.700	4,474.32	178.97	-2,003.04	-1,638.44	6.47	-4.64	-10.40	
5,033.00	19.83	256.740	4,515.04	176.73	-2,019.49	-1,649.48	13.95	-11.05	-22.64	
5,078.00	15.99	249.470	4,557.86	172.80	-2,032.73	-1,656.99	9.86	-8.53	-16.16	
5,123.00	13.62	241.160	4,601.37	168.07	-2,043.18	-1,661.86	7.06	-5.27	-18.47	
5,168.00	11.21	227.230	4,645.32	162.54	-2,051.04	-1,664.23	8.51	-5.36	-30.96	
5,212.00	11.11	209.450	4,688.50	155.94	-2,056.26	-1,663.91	7.79	-0.23	-40.41	
5,257.00	10.86	191.010	4,732.69	148.00	-2,059.20	-1,660.99	7.80	-0.56	-40.98	
5,301.00	13.05	173.360	4,775.75	139.00	-2,059.42	-1,655.30	9.63	4.98	-40.11	
5,346.00	15.17	155.890	4,819.41	128.57	-2,056.43	-1,646.25	10.52	4.71	-38.82	
5,391.00	17.47	139.760	4,862.61	118.03	-2,049.65	-1,634.25	11.25	5.11	-35.84	
5,435.00	20.55	131.490	4,904.22	107.87	-2,039.60	-1,620.00	9.28	7.00	-18.80	
5,480.00	24.10	129.330	4,945.84	96.81	-2,026.57	-1,602.91	8.10	7.89	-4.80	
5,525.00	27.19	128.050	4,986.40	84.65	-2,011.36	-1,583.45	6.98	6.87	-2.84	
5,570.00	30.28	126.540	5,025.85	71.55	-1,994.15	-1,561.86	7.05	6.87	-3.36	
5,614.00	33.30	128.100	5,063.25	57.49	-1,975.73	-1,538.72	7.11	6.86	3.55	
5,659.00	36.95	130.480	5,100.05	41.08	-1,955.71	-1,512.84	8.66	8.11	5.29	
5,704.00	40.53	131.200	5,135.14	22.67	-1,934.41	-1,484.69	8.02	7.96	1.60	
5,749.00	45.39	131.280	5,168.07	2.46	-1,911.36	-1,454.03	10.80	10.80	0.18	
5,794.00	51.18	131.150	5,198.00	-19.67	-1,886.10	-1,420.46	12.87	12.87	-0.29	
5,839.00	57.82	131.120	5,224.12	-43.75	-1,858.53	-1,383.84	14.76	14.76	-0.07	
5,883.00	63.32	131.600	5,245.73	-69.07	-1,829.78	-1,345.54	12.54	12.50	1.09	
5,928.00	68.99	131.780	5,263.91	-96.43	-1,799.05	-1,304.41	12.61	12.60	0.40	
5,935.95	69.94	131.205	5,266.70	-101.36	-1,793.48	-1,296.96	13.74	11.95	-7.23	
FTP @ 5935.95 MD 5266.70 TVD										
5,973.00	74.39	128.610	5,278.05	-123.98	-1,766.43	-1,261.71	13.74	12.01	-7.00	
6,062.00	82.86	128.618	5,295.58	-178.38	-1,698.31	-1,174.59	9.52	9.52	0.01	
9 5/8" Shoe @ 6062.00 MD 5295.58 TVD										
6,091.00	85.62	128.620	5,298.49	-196.38	-1,675.77	-1,145.75	9.52	9.52	0.01	
6,135.00	88.56	129.510	5,300.73	-224.07	-1,641.66	-1,101.83	6.98	6.68	2.02	
6,223.00	92.05	131.380	5,300.26	-281.15	-1,574.70	-1,013.85	4.50	3.97	2.13	
6,310.00	92.44	131.170	5,296.85	-338.50	-1,509.36	-926.92	0.51	0.45	-0.24	
6,397.00	90.65	130.620	5,294.51	-395.43	-1,443.63	-839.96	2.15	-2.06	-0.63	
6,483.00	90.37	129.980	5,293.74	-451.05	-1,378.04	-753.96	0.81	-0.33	-0.74	
6,571.00	90.16	129.310	5,293.33	-507.20	-1,310.28	-665.98	0.80	-0.24	-0.76	
6,659.00	90.09	128.960	5,293.14	-562.74	-1,242.02	-578.00	0.41	-0.08	-0.40	
6,747.00	90.61	129.150	5,292.60	-618.18	-1,173.69	-490.03	0.63	0.59	0.22	
6,835.00	90.45	129.180	5,291.79	-673.76	-1,105.46	-402.06	0.18	-0.18	0.03	
6,922.00	90.42	131.680	5,291.13	-730.17	-1,039.25	-315.07	2.87	-0.03	2.87	
7,010.00	90.99	131.870	5,290.05	-788.79	-973.62	-227.10	0.68	0.65	0.22	
7,098.00	91.03	131.520	5,288.50	-847.32	-907.92	-139.13	0.40	0.05	-0.40	
7,186.00	91.47	131.190	5,286.58	-905.45	-841.88	-51.16	0.62	0.50	-0.38	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,273.00	90.35	131.370	5,285.19	-962.84	-776.51	35.82	1.30	-1.29	0.21	
7,360.00	91.03	131.430	5,284.15	-1,020.37	-711.26	122.80	0.78	0.78	0.07	
7,449.00	89.91	130.880	5,283.42	-1,078.93	-644.25	211.79	1.40	-1.26	-0.62	
7,537.00	91.03	131.760	5,282.69	-1,137.03	-578.17	299.78	1.62	1.27	1.00	
7,626.00	89.84	130.560	5,282.02	-1,195.61	-511.16	388.77	1.90	-1.34	-1.35	
7,714.00	89.92	130.490	5,282.20	-1,252.79	-444.27	476.77	0.12	0.09	-0.08	
7,802.00	90.46	130.400	5,281.91	-1,309.87	-377.30	564.77	0.62	0.61	-0.10	
7,890.00	90.66	130.430	5,281.05	-1,366.92	-310.31	652.76	0.23	0.23	0.03	
7,978.00	90.88	130.440	5,279.87	-1,423.99	-243.33	740.75	0.25	0.25	0.01	
8,066.00	89.42	130.060	5,279.64	-1,480.85	-176.17	828.75	1.71	-1.66	-0.43	
8,153.00	89.47	130.090	5,280.48	-1,536.86	-109.60	915.74	0.07	0.06	0.03	
8,241.00	89.70	130.000	5,281.12	-1,593.47	-42.23	1,003.74	0.28	0.26	-0.10	
8,329.00	90.09	129.830	5,281.28	-1,649.94	25.26	1,091.73	0.48	0.44	-0.19	
8,417.00	90.66	129.740	5,280.70	-1,706.25	92.88	1,179.72	0.66	0.65	-0.10	
8,504.00	90.78	129.950	5,279.61	-1,761.99	159.68	1,266.71	0.28	0.14	0.24	
8,591.00	90.69	129.290	5,278.49	-1,817.46	226.68	1,353.69	0.77	-0.10	-0.76	
8,679.00	91.12	129.100	5,277.10	-1,873.07	294.88	1,441.65	0.53	0.49	-0.22	
8,766.00	90.21	130.230	5,276.09	-1,928.59	361.84	1,528.64	1.67	-1.05	1.30	
8,853.00	90.35	129.980	5,275.67	-1,984.64	428.38	1,615.63	0.33	0.16	-0.29	
8,941.00	90.52	129.900	5,275.00	-2,041.13	495.85	1,703.62	0.21	0.19	-0.09	
9,029.00	90.76	129.620	5,274.02	-2,097.41	563.50	1,791.61	0.42	0.27	-0.32	
9,117.00	89.19	130.830	5,274.06	-2,154.24	630.68	1,879.60	2.25	-1.78	1.38	
9,205.00	89.44	130.510	5,275.11	-2,211.58	697.42	1,967.60	0.46	0.28	-0.36	
9,293.00	90.05	130.330	5,275.50	-2,268.64	764.42	2,055.60	0.72	0.69	-0.20	
9,380.00	90.25	130.450	5,275.27	-2,325.01	830.68	2,142.60	0.27	0.23	0.14	
9,468.00	90.23	129.610	5,274.90	-2,381.61	898.06	2,230.59	0.95	-0.02	-0.95	
9,556.00	90.74	129.330	5,274.16	-2,437.55	965.99	2,318.57	0.66	0.58	-0.32	
9,644.00	89.66	130.220	5,273.85	-2,493.85	1,033.62	2,406.56	1.59	-1.23	1.01	
9,732.00	88.61	128.770	5,275.18	-2,549.81	1,101.52	2,494.53	2.03	-1.19	-1.65	
9,820.00	88.91	130.900	5,277.08	-2,606.16	1,169.08	2,582.50	2.44	0.34	2.42	
9,907.00	89.19	130.510	5,278.53	-2,662.89	1,235.02	2,669.49	0.55	0.32	-0.45	
9,994.00	89.56	130.100	5,279.48	-2,719.17	1,301.36	2,756.48	0.63	0.43	-0.47	
10,081.00	89.95	129.720	5,279.85	-2,774.98	1,368.09	2,843.47	0.63	0.45	-0.44	
10,169.00	90.37	131.450	5,279.60	-2,832.23	1,434.92	2,931.47	2.02	0.48	1.97	
10,255.00	90.71	131.300	5,278.79	-2,889.07	1,499.45	3,017.46	0.43	0.40	-0.17	
10,343.00	90.87	130.980	5,277.58	-2,946.96	1,565.72	3,105.44	0.41	0.18	-0.36	
10,431.00	91.04	130.690	5,276.11	-3,004.50	1,632.29	3,193.43	0.38	0.19	-0.33	
10,518.00	91.13	130.270	5,274.46	-3,060.97	1,698.45	3,280.41	0.49	0.10	-0.48	
10,605.00	90.83	129.480	5,272.98	-3,116.74	1,765.21	3,367.40	0.97	-0.34	-0.91	
10,692.00	90.24	131.620	5,272.16	-3,173.29	1,831.31	3,454.39	2.55	-0.68	2.46	
10,780.00	90.42	131.270	5,271.66	-3,231.54	1,897.27	3,542.37	0.45	0.20	-0.40	
10,868.00	90.20	130.650	5,271.18	-3,289.22	1,963.73	3,630.37	0.75	-0.25	-0.70	
10,956.00	90.05	129.980	5,270.99	-3,346.16	2,030.83	3,718.37	0.78	-0.17	-0.76	



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,043.00	90.38	131.490	5,270.66	-3,402.93	2,096.75	3,805.36	1.78	0.38	1.74
11,131.00	90.45	131.030	5,270.03	-3,460.96	2,162.90	3,893.36	0.53	0.08	-0.52
11,219.00	90.46	130.800	5,269.33	-3,518.59	2,229.39	3,981.35	0.26	0.01	-0.26
11,307.00	90.50	130.550	5,268.59	-3,575.94	2,296.13	4,069.35	0.29	0.05	-0.28
11,395.00	90.34	129.950	5,267.94	-3,632.80	2,363.30	4,157.34	0.71	-0.18	-0.68
11,482.00	90.19	129.630	5,267.54	-3,688.48	2,430.15	4,244.33	0.41	-0.17	-0.37
11,569.00	91.06	131.070	5,266.59	-3,744.80	2,496.44	4,331.33	1.93	1.00	1.66
11,657.00	91.07	130.710	5,264.96	-3,802.40	2,562.96	4,419.31	0.41	0.01	-0.41
11,745.00	90.87	130.020	5,263.47	-3,859.38	2,630.00	4,507.30	0.82	-0.23	-0.78
11,834.00	91.11	129.710	5,261.93	-3,916.42	2,698.30	4,596.28	0.44	0.27	-0.35
11,922.00	90.83	129.090	5,260.44	-3,972.27	2,766.29	4,684.24	0.77	-0.32	-0.70
12,010.00	88.96	129.470	5,260.60	-4,027.98	2,834.40	4,772.22	2.17	-2.13	0.43
12,098.00	90.68	130.220	5,260.88	-4,084.36	2,901.96	4,860.21	2.13	1.95	0.85
12,186.00	90.82	129.690	5,259.73	-4,140.87	2,969.41	4,948.20	0.62	0.16	-0.60
12,273.00	90.84	131.060	5,258.47	-4,197.22	3,035.68	5,035.18	1.57	0.02	1.57
12,361.00	89.60	129.730	5,258.13	-4,254.24	3,102.70	5,123.18	2.07	-1.41	-1.51
12,448.00	91.09	130.960	5,257.60	-4,310.56	3,169.00	5,210.17	2.22	1.71	1.41
12,535.00	91.41	130.540	5,255.71	-4,367.34	3,234.90	5,297.15	0.61	0.37	-0.48
12,623.00	90.48	129.450	5,254.25	-4,423.89	3,302.30	5,385.13	1.63	-1.06	-1.24
12,710.00	90.66	131.050	5,253.39	-4,480.10	3,368.70	5,472.12	1.85	0.21	1.84
12,798.00	91.52	130.670	5,251.71	-4,537.66	3,435.24	5,560.11	1.07	0.98	-0.43
12,884.00	91.75	130.540	5,249.26	-4,593.61	3,500.51	5,646.07	0.31	0.27	-0.15
12,972.00	90.88	131.870	5,247.24	-4,651.56	3,566.69	5,734.04	1.81	-0.99	1.51
13,060.00	90.83	131.210	5,245.93	-4,709.91	3,632.55	5,822.02	0.75	-0.06	-0.75
13,147.00	90.89	130.900	5,244.62	-4,767.04	3,698.15	5,909.00	0.36	0.07	-0.36
13,235.00	90.80	130.290	5,243.32	-4,824.30	3,764.97	5,996.99	0.70	-0.10	-0.69
13,322.00	90.15	128.940	5,242.60	-4,879.77	3,831.98	6,083.98	1.72	-0.75	-1.55
13,410.00	89.78	130.600	5,242.66	-4,936.06	3,899.62	6,171.96	1.93	-0.42	1.89
13,497.00	89.37	130.350	5,243.30	-4,992.53	3,965.80	6,258.96	0.55	-0.47	-0.29
13,584.00	89.21	132.190	5,244.38	-5,049.91	4,031.18	6,345.94	2.12	-0.18	2.11
13,672.00	89.76	132.170	5,245.17	-5,109.00	4,096.39	6,433.90	0.63	0.63	-0.02
13,760.00	89.78	131.700	5,245.52	-5,167.81	4,161.85	6,521.88	0.53	0.02	-0.53
13,848.00	90.23	131.600	5,245.52	-5,226.29	4,227.60	6,609.86	0.52	0.51	-0.11
13,935.00	90.41	131.150	5,245.03	-5,283.79	4,292.89	6,696.85	0.56	0.21	-0.52
14,023.00	90.70	130.890	5,244.18	-5,341.55	4,359.28	6,784.84	0.44	0.33	-0.30
14,110.00	90.70	130.500	5,243.12	-5,398.27	4,425.24	6,871.84	0.45	0.00	-0.45
14,198.00	89.54	129.230	5,242.93	-5,454.67	4,492.78	6,959.83	1.95	-1.32	-1.44
14,286.00	88.46	129.210	5,244.47	-5,510.31	4,560.94	7,047.79	1.23	-1.23	-0.02
14,373.00	88.92	131.000	5,246.46	-5,566.33	4,627.47	7,134.76	2.12	0.53	2.06
14,461.00	89.15	130.700	5,247.94	-5,623.89	4,694.02	7,222.75	0.43	0.26	-0.34
14,549.00	89.44	130.550	5,249.02	-5,681.18	4,760.81	7,310.74	0.37	0.33	-0.17
14,637.00	89.95	130.290	5,249.49	-5,738.24	4,827.80	7,398.74	0.65	0.58	-0.30
14,724.00	89.90	130.060	5,249.60	-5,794.36	4,894.28	7,485.73	0.27	-0.06	-0.26
14,812.00	90.21	129.890	5,249.52	-5,850.90	4,961.71	7,573.73	0.40	0.35	-0.19



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,899.00	90.31	129.610	5,249.12	-5,906.53	5,028.60	7,660.72	0.34	0.11	-0.32
14,987.00	89.07	131.440	5,249.60	-5,963.70	5,095.49	7,748.71	2.51	-1.41	2.08
15,075.00	89.27	131.070	5,250.88	-6,021.73	5,161.64	7,836.70	0.48	0.23	-0.42
15,163.00	89.13	130.650	5,252.10	-6,079.29	5,228.18	7,924.69	0.50	-0.16	-0.48
15,250.00	89.33	130.470	5,253.27	-6,135.86	5,294.27	8,011.68	0.31	0.23	-0.21
15,338.00	89.40	130.100	5,254.25	-6,192.75	5,361.40	8,099.67	0.43	0.08	-0.42
15,426.00	88.62	129.270	5,255.77	-6,248.94	5,429.11	8,187.65	1.29	-0.89	-0.94
15,514.00	89.77	130.620	5,257.01	-6,305.43	5,496.57	8,275.63	2.02	1.31	1.53
15,602.00	89.43	129.680	5,257.62	-6,362.17	5,563.83	8,363.63	1.14	-0.39	-1.07
15,689.00	90.99	132.240	5,257.30	-6,419.19	5,629.52	8,450.61	3.45	1.79	2.94
15,777.00	90.79	131.470	5,255.93	-6,477.90	5,695.06	8,538.58	0.90	-0.23	-0.88
15,865.00	90.68	131.250	5,254.81	-6,536.05	5,761.10	8,626.56	0.28	-0.13	-0.25
15,952.00	90.68	131.040	5,253.77	-6,593.29	5,826.61	8,713.55	0.24	0.00	-0.24
16,040.00	90.70	130.660	5,252.71	-6,650.84	5,893.17	8,801.54	0.43	0.02	-0.43
16,128.00	90.41	130.170	5,251.86	-6,707.89	5,960.17	8,889.54	0.65	-0.33	-0.56
16,216.00	90.00	129.530	5,251.55	-6,764.28	6,027.73	8,977.53	0.86	-0.47	-0.73
16,302.00	89.92	129.020	5,251.61	-6,818.72	6,094.30	9,063.51	0.60	-0.09	-0.59
16,390.00	89.57	128.280	5,252.00	-6,873.68	6,163.03	9,151.46	0.93	-0.40	-0.84
16,477.00	88.72	130.880	5,253.30	-6,929.10	6,230.07	9,238.43	3.14	-0.98	2.99
16,565.00	88.82	130.330	5,255.18	-6,986.36	6,296.86	9,326.41	0.64	0.11	-0.63
16,652.00	88.49	129.940	5,257.23	-7,042.43	6,363.36	9,413.38	0.59	-0.38	-0.45
16,740.00	89.67	131.290	5,258.64	-7,099.70	6,430.15	9,501.37	2.04	1.34	1.53
16,828.00	89.31	130.310	5,259.42	-7,157.20	6,496.76	9,589.36	1.19	-0.41	-1.11
16,915.00	91.17	132.800	5,259.06	-7,214.90	6,561.86	9,676.34	3.57	2.14	2.86
17,003.00	91.43	132.110	5,257.06	-7,274.29	6,626.77	9,764.27	0.84	0.30	-0.78
17,091.00	90.92	131.290	5,255.26	-7,332.82	6,692.45	9,852.23	1.10	-0.58	-0.93
17,179.00	90.95	131.100	5,253.82	-7,390.77	6,758.66	9,940.21	0.22	0.03	-0.22
17,267.00	90.79	130.780	5,252.49	-7,448.42	6,825.13	10,028.20	0.41	-0.18	-0.36
17,354.00	89.53	131.270	5,252.24	-7,505.53	6,890.76	10,115.19	1.55	-1.45	0.56
17,442.00	89.44	130.910	5,253.03	-7,563.36	6,957.08	10,203.19	0.42	-0.10	-0.41
17,530.00	89.25	130.550	5,254.04	-7,620.78	7,023.77	10,291.18	0.46	-0.22	-0.41
17,617.00	89.27	130.360	5,255.16	-7,677.22	7,089.96	10,378.17	0.22	0.02	-0.22
17,705.00	88.82	129.540	5,256.63	-7,733.72	7,157.41	10,466.15	1.06	-0.51	-0.93
17,793.00	89.21	131.170	5,258.14	-7,790.69	7,224.46	10,554.14	1.90	0.44	1.85
17,880.00	89.28	130.680	5,259.29	-7,847.68	7,290.19	10,641.13	0.57	0.08	-0.56
17,967.00	89.34	130.440	5,260.34	-7,904.25	7,356.28	10,728.12	0.28	0.07	-0.28
18,055.00	89.43	130.120	5,261.28	-7,961.14	7,423.41	10,816.11	0.38	0.10	-0.36
18,142.00	89.10	129.550	5,262.40	-8,016.86	7,490.21	10,903.10	0.76	-0.38	-0.66
18,230.00	89.23	129.030	5,263.68	-8,072.58	7,558.31	10,991.07	0.61	0.15	-0.59
18,317.00	89.68	128.810	5,264.51	-8,127.24	7,626.00	11,078.03	0.58	0.52	-0.25
18,395.00	88.80	128.060	5,265.54	-8,175.72	7,687.09	11,155.97	1.48	-1.13	-0.96
Survey @ 18395.00 MD 5265.54 TVD									
18,404.90	88.80	128.060	5,265.75	-8,181.82	7,694.88	11,165.86	0.00	0.00	0.00



Survey Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
LTP @ 18404.90 MD 5265.75 TVD									
18,454.00	88.80	128.060	5,266.78	-8,212.08	7,733.53	11,214.90	0.00	0.00	0.00
Survey proj. to 18454 MD 5266.78 TVD 1640 FSL 1460 FWL									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
440.00	440.00	0.22	-0.53	MWD surveys
5,935.95	5,266.70	-101.36	-1,793.48	FTP @ 5935.95 MD 5266.70 TVD
6,062.00	5,295.58	-178.38	-1,698.31	9 5/8" Shoe @ 6062.00 MD 5295.58 TVD
18,395.00	5,265.54	-8,175.72	7,687.09	Survey @ 18395.00 MD 5265.54 TVD
18,404.90	5,265.75	-8,181.82	7,694.88	LTP @ 18404.90 MD 5265.75 TVD
18,454.00	5,266.78	-8,212.08	7,733.53	Survey proj. to 18454 MD 5266.78 TVD 1640 FSL 1460 FWL



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

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

Site	North Alamito Unit (102 & 106)			
Site Position:		Northing:	1,901,167.83 usft	Latitude: 36.21727000
From:	Lat/Long	Easting:	1,239,107.83 usft	Longitude: -107.61047300
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: -0.80 °

Well	North Alamito Unit 106 H, Surf loc: 897 FNL 1158 FEL Section 19-T23N-R07W			
Well Position	+N/-S	0.00 ft	Northing:	1,901,187.20 usft
	+E/-W	0.00 ft	Easting:	1,239,103.38 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level: 6,962.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/20/2024	8.43	62.69	49,018.93121944

Design	MWD surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	130.545	

Survey Program	Date	6/12/2024			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
440.00	5,973.00	MWD int (Original Hole)	MWD	OWSG MWD - Standard	
6,091.00	18,395.00	MWD (Original Hole)	MWD	OWSG MWD - Standard	
18,454.00	18,454.00	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	1,901,187.20	1,239,103.38	36.21732300	-107.61048900
440.00	0.15	292.320	440.00	0.22	-0.53	1,901,187.41	1,239,102.85	36.21732358	-107.61049082
MWD surveys									
485.00	0.07	283.750	485.00	0.25	-0.61	1,901,187.44	1,239,102.77	36.21732366	-107.61049110
574.00	2.32	274.340	573.97	0.40	-2.46	1,901,187.59	1,239,100.92	36.21732400	-107.61049737
664.00	5.59	282.320	663.75	1.47	-8.56	1,901,188.67	1,239,094.82	36.21732671	-107.61051810
753.00	8.18	282.950	752.10	3.81	-18.97	1,901,191.01	1,239,084.41	36.21733275	-107.61055348
843.00	11.42	282.770	840.77	7.22	-33.90	1,901,194.42	1,239,069.48	36.21734152	-107.61060426
932.00	14.53	280.130	927.49	11.13	-53.49	1,901,198.33	1,239,049.89	36.21735151	-107.61067083
1,021.00	17.53	278.070	1,013.02	14.98	-77.76	1,901,202.17	1,239,025.62	36.21736114	-107.61075326



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,115.00	21.47	278.900	1,101.61	19.63	-108.78	1,901,206.82	1,238,994.60	36.21737271	-107.61085863
1,208.00	25.50	276.730	1,186.89	24.61	-145.50	1,901,211.81	1,238,957.89	36.21738498	-107.61098329
1,302.00	27.93	276.550	1,270.85	29.49	-187.47	1,901,216.69	1,238,915.92	36.21739677	-107.61112578
1,394.00	26.71	275.230	1,352.59	33.84	-229.46	1,901,221.03	1,238,873.92	36.21740708	-107.61126832
1,487.00	27.63	275.000	1,435.33	37.62	-271.76	1,901,224.82	1,238,831.62	36.21741584	-107.61141186
1,579.00	27.41	274.410	1,516.92	41.11	-314.13	1,901,228.30	1,238,789.26	36.21742379	-107.61155561
1,674.00	26.52	272.650	1,601.59	43.77	-357.12	1,901,230.97	1,238,746.27	36.21742944	-107.61170144
1,764.00	27.27	273.700	1,681.86	46.03	-397.77	1,901,233.23	1,238,705.62	36.21743408	-107.61183931
1,856.00	31.25	273.100	1,762.10	48.68	-442.64	1,901,235.88	1,238,660.74	36.21743963	-107.61199154
1,948.00	29.98	270.420	1,841.28	50.14	-489.46	1,901,237.34	1,238,613.92	36.21744183	-107.61215029
2,037.00	29.76	271.350	1,918.46	50.82	-533.78	1,901,238.02	1,238,569.60	36.21744200	-107.61230053
2,127.00	29.14	270.870	1,996.83	51.68	-578.02	1,901,238.88	1,238,525.36	36.21744265	-107.61245051
2,216.00	28.76	272.640	2,074.71	53.00	-621.08	1,901,240.19	1,238,482.31	36.21744460	-107.61259650
2,306.00	30.93	275.720	2,152.77	56.30	-665.73	1,901,243.50	1,238,437.66	36.21745195	-107.61274799
2,395.00	30.79	273.640	2,229.17	60.03	-711.22	1,901,247.22	1,238,392.16	36.21746042	-107.61290235
2,484.00	30.14	277.760	2,305.89	64.49	-756.10	1,901,251.69	1,238,347.29	36.21747095	-107.61305467
2,574.00	29.37	276.220	2,384.03	69.93	-800.43	1,901,257.13	1,238,302.96	36.21748418	-107.61320517
2,663.00	30.58	276.480	2,461.12	74.85	-844.62	1,901,262.05	1,238,258.76	36.21749599	-107.61335518
2,752.00	30.81	275.510	2,537.65	79.60	-889.80	1,901,266.79	1,238,213.58	36.21750727	-107.61350854
2,842.00	30.19	274.760	2,615.20	83.69	-935.30	1,901,270.88	1,238,168.09	36.21751675	-107.61366293
2,931.00	31.27	277.830	2,691.71	88.69	-980.49	1,901,275.89	1,238,122.90	36.21752875	-107.61381632
3,020.00	29.26	277.760	2,768.57	94.78	-1,024.93	1,901,281.97	1,238,078.46	36.21754374	-107.61396722
3,110.00	29.40	276.760	2,847.04	100.35	-1,068.66	1,901,287.54	1,238,034.73	36.21755735	-107.61411570
3,199.00	29.65	276.290	2,924.48	105.33	-1,112.23	1,901,292.52	1,237,991.16	36.21756935	-107.61426362
3,289.00	29.86	276.250	3,002.61	110.21	-1,156.63	1,901,297.40	1,237,946.76	36.21758103	-107.61441433
3,379.00	29.36	275.720	3,080.86	114.85	-1,200.86	1,901,302.04	1,237,902.53	36.21759206	-107.61456445
3,468.00	30.77	276.560	3,157.88	119.62	-1,245.18	1,901,306.82	1,237,858.20	36.21760346	-107.61471491
3,557.00	31.35	276.280	3,234.12	124.76	-1,290.81	1,901,311.95	1,237,812.57	36.21761580	-107.61486981
3,647.00	29.74	275.030	3,311.63	129.27	-1,336.33	1,901,316.47	1,237,767.06	36.21762645	-107.61502428
3,736.00	31.28	274.420	3,388.31	132.99	-1,381.36	1,901,320.19	1,237,722.03	36.21763491	-107.61517707
3,826.00	31.60	273.950	3,465.09	136.41	-1,428.17	1,901,323.61	1,237,675.21	36.21764251	-107.61533591
3,915.00	29.76	271.550	3,541.64	138.62	-1,473.52	1,901,325.81	1,237,629.87	36.21764681	-107.61548971
4,005.00	31.17	275.450	3,619.22	141.44	-1,519.04	1,901,328.63	1,237,584.34	36.21765278	-107.61564413
4,094.00	30.48	275.900	3,695.64	145.94	-1,564.42	1,901,333.14	1,237,538.96	36.21766341	-107.61579815
4,184.00	28.74	274.410	3,773.89	149.95	-1,608.71	1,901,337.15	1,237,494.68	36.21767271	-107.61594842
4,273.00	30.63	277.050	3,851.21	154.38	-1,652.55	1,901,341.58	1,237,450.84	36.21768317	-107.61609722
4,363.00	28.99	275.760	3,929.30	159.39	-1,697.00	1,901,346.58	1,237,406.38	36.21769519	-107.61624814
4,452.00	30.92	274.970	4,006.41	163.53	-1,741.25	1,901,350.73	1,237,362.14	36.21770487	-107.61639828
4,541.00	32.87	274.980	4,081.96	167.61	-1,788.09	1,901,354.80	1,237,315.30	36.21771425	-107.61655725
4,631.00	32.80	274.260	4,157.59	171.54	-1,836.73	1,901,358.74	1,237,266.66	36.21772316	-107.61672229
4,720.00	27.52	271.990	4,234.51	174.05	-1,881.35	1,901,361.24	1,237,222.03	36.21772832	-107.61687364
4,810.00	26.43	272.700	4,314.72	175.71	-1,922.14	1,901,362.91	1,237,181.25	36.21773132	-107.61701196
4,899.00	28.08	274.320	4,393.84	178.22	-1,962.82	1,901,365.42	1,237,140.57	36.21773664	-107.61714994
4,944.00	26.78	271.380	4,433.78	179.27	-1,983.52	1,901,366.46	1,237,119.87	36.21773870	-107.61722014
4,989.00	24.69	266.700	4,474.32	178.97	-2,003.04	1,901,366.16	1,237,100.35	36.21773713	-107.61728629
5,033.00	19.83	256.740	4,515.04	176.73	-2,019.49	1,901,363.92	1,237,083.90	36.21773033	-107.61734195
5,078.00	15.99	249.470	4,557.86	172.80	-2,032.73	1,901,359.99	1,237,070.66	36.21771903	-107.61738664
5,123.00	13.62	241.160	4,601.37	168.07	-2,043.18	1,901,355.26	1,237,060.21	36.21770564	-107.61742182
5,168.00	11.21	227.230	4,645.32	162.54	-2,051.04	1,901,349.74	1,237,052.35	36.21769015	-107.61744818
5,212.00	11.11	209.450	4,688.50	155.94	-2,056.26	1,901,343.14	1,237,047.13	36.21767183	-107.61746557
5,257.00	10.86	191.010	4,732.69	148.00	-2,059.20	1,901,335.20	1,237,044.19	36.21764991	-107.61747517
5,301.00	13.05	173.360	4,775.75	139.00	-2,059.42	1,901,326.19	1,237,043.97	36.21762517	-107.61747547
5,346.00	15.17	155.890	4,819.41	128.57	-2,056.43	1,901,315.77	1,237,046.96	36.21759665	-107.61746483
5,391.00	17.47	139.760	4,862.61	118.03	-2,049.65	1,901,305.23	1,237,053.74	36.21756797	-107.61744137
5,435.00	20.55	131.490	4,904.22	107.87	-2,039.60	1,901,295.07	1,237,063.79	36.21754045	-107.61740680



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,480.00	24.10	129.330	4,945.84	96.81	-2,026.57	1,901,284.01	1,237,076.82	36.21751058	-107.61736212
5,525.00	27.19	128.050	4,986.40	84.65	-2,011.36	1,901,271.84	1,237,092.02	36.21747777	-107.61731000
5,570.00	30.28	126.540	5,025.85	71.55	-1,994.15	1,901,258.75	1,237,109.24	36.21744247	-107.61725103
5,614.00	33.30	128.100	5,063.25	57.49	-1,975.73	1,901,244.69	1,237,127.66	36.21740457	-107.61718792
5,659.00	36.95	130.480	5,100.05	41.08	-1,955.71	1,901,228.28	1,237,147.68	36.21736028	-107.61711929
5,704.00	40.53	131.200	5,135.14	22.67	-1,934.41	1,901,209.86	1,237,168.97	36.21731052	-107.61704624
5,749.00	45.39	131.280	5,168.07	2.46	-1,911.36	1,901,189.65	1,237,192.03	36.21725591	-107.61696714
5,794.00	51.18	131.150	5,198.00	-19.67	-1,886.10	1,901,167.53	1,237,217.29	36.21719614	-107.61688048
5,839.00	57.82	131.120	5,224.12	-43.75	-1,858.53	1,901,143.44	1,237,244.86	36.21713105	-107.61678586
5,883.00	63.32	131.600	5,245.73	-69.07	-1,829.78	1,901,118.13	1,237,273.61	36.21706264	-107.61668721
5,928.00	68.99	131.780	5,263.91	-96.43	-1,799.05	1,901,090.76	1,237,304.33	36.21698868	-107.61658178
5,935.95	69.94	131.205	5,266.70	-101.36	-1,793.48	1,901,085.83	1,237,309.91	36.21697535	-107.61656265
FTP @ 5935.95 MD 5266.70 TVD									
5,973.00	74.39	128.610	5,278.05	-123.98	-1,766.43	1,901,063.22	1,237,336.96	36.21691429	-107.61646988
6,062.00	82.86	128.618	5,295.58	-178.38	-1,698.31	1,901,008.82	1,237,405.08	36.21676752	-107.61623643
9 5/8" Shoe @ 6062.00 MD 5295.58 TVD									
6,091.00	85.62	128.620	5,298.49	-196.38	-1,675.77	1,900,990.81	1,237,427.62	36.21671894	-107.61615918
6,135.00	88.56	129.510	5,300.73	-224.07	-1,641.66	1,900,963.12	1,237,461.73	36.21664422	-107.61604223
6,223.00	92.05	131.380	5,300.26	-281.15	-1,574.70	1,900,906.05	1,237,528.69	36.21649006	-107.61581258
6,310.00	92.44	131.170	5,296.85	-338.50	-1,509.36	1,900,848.70	1,237,594.02	36.21633509	-107.61558841
6,397.00	90.65	130.620	5,294.51	-395.43	-1,443.63	1,900,791.77	1,237,659.76	36.21618127	-107.61536290
6,483.00	90.37	129.980	5,293.74	-451.05	-1,378.04	1,900,736.14	1,237,725.35	36.21603106	-107.61513796
6,571.00	90.16	129.310	5,293.33	-507.20	-1,310.28	1,900,680.00	1,237,793.11	36.21587948	-107.61490563
6,659.00	90.09	128.960	5,293.14	-562.74	-1,242.02	1,900,624.46	1,237,861.36	36.21572958	-107.61467165
6,747.00	90.61	129.150	5,292.60	-618.18	-1,173.69	1,900,569.01	1,237,929.70	36.21557995	-107.61443741
6,835.00	90.45	129.180	5,291.79	-673.76	-1,105.46	1,900,513.44	1,237,997.92	36.21542996	-107.61420353
6,922.00	90.42	131.680	5,291.13	-730.17	-1,039.25	1,900,457.02	1,238,064.14	36.21527759	-107.61397642
7,010.00	90.99	131.870	5,290.05	-788.79	-973.62	1,900,398.40	1,238,129.76	36.21511913	-107.61375122
7,098.00	91.03	131.520	5,288.50	-847.32	-907.92	1,900,339.88	1,238,195.46	36.21496093	-107.61352577
7,186.00	91.47	131.190	5,286.58	-905.45	-841.88	1,900,281.75	1,238,261.50	36.21480384	-107.61329919
7,273.00	90.35	131.370	5,285.19	-962.84	-776.51	1,900,224.36	1,238,326.87	36.21464875	-107.61307490
7,360.00	91.03	131.430	5,284.15	-1,020.37	-711.26	1,900,166.83	1,238,392.13	36.21449327	-107.61285101
7,449.00	89.91	130.880	5,283.42	-1,078.93	-644.25	1,900,108.26	1,238,459.13	36.21433501	-107.61262113
7,537.00	91.03	131.760	5,282.69	-1,137.03	-578.17	1,900,050.16	1,238,525.22	36.21417800	-107.61239438
7,626.00	89.84	130.560	5,282.02	-1,195.61	-511.16	1,899,991.59	1,238,592.22	36.21401972	-107.61216452
7,714.00	89.92	130.490	5,282.20	-1,252.79	-444.27	1,899,934.41	1,238,659.11	36.21386527	-107.61193510
7,802.00	90.46	130.400	5,281.91	-1,309.87	-377.30	1,899,877.32	1,238,726.08	36.21371107	-107.61170542
7,890.00	90.66	130.430	5,281.05	-1,366.92	-310.31	1,899,820.27	1,238,793.08	36.21355697	-107.61147565
7,978.00	90.88	130.440	5,279.87	-1,423.99	-243.33	1,899,763.20	1,238,860.05	36.21340282	-107.61124595
8,066.00	89.42	130.060	5,279.64	-1,480.85	-176.17	1,899,706.35	1,238,927.22	36.21324926	-107.61101563
8,153.00	89.47	130.090	5,280.48	-1,536.86	-109.60	1,899,650.34	1,238,993.79	36.21309801	-107.61078736
8,241.00	89.70	130.000	5,281.12	-1,593.47	-42.23	1,899,593.72	1,239,061.15	36.21294512	-107.61055636
8,329.00	90.09	129.830	5,281.28	-1,649.94	25.26	1,899,537.26	1,239,128.65	36.21279264	-107.61032493
8,417.00	90.66	129.740	5,280.70	-1,706.25	92.88	1,899,480.95	1,239,196.27	36.21264060	-107.61009308
8,504.00	90.78	129.950	5,279.61	-1,761.99	159.68	1,899,425.21	1,239,263.06	36.21249010	-107.60986407
8,591.00	90.69	129.290	5,278.49	-1,817.46	226.68	1,899,369.74	1,239,330.07	36.21234033	-107.60963434
8,679.00	91.12	129.100	5,277.10	-1,873.07	294.88	1,899,314.13	1,239,398.26	36.21219024	-107.60940060
8,766.00	90.21	130.230	5,276.09	-1,928.59	361.84	1,899,258.60	1,239,465.23	36.21204032	-107.60917102
8,853.00	90.35	129.980	5,275.67	-1,984.64	428.38	1,899,202.56	1,239,531.77	36.21188896	-107.60894284
8,941.00	90.52	129.900	5,275.00	-2,041.13	495.85	1,899,146.07	1,239,599.24	36.21173641	-107.60871151
9,029.00	90.76	129.620	5,274.02	-2,097.41	563.50	1,899,089.79	1,239,666.88	36.21158445	-107.60847959
9,117.00	89.19	130.830	5,274.06	-2,154.24	630.68	1,899,032.96	1,239,734.07	36.21143097	-107.60824920
9,205.00	89.44	130.510	5,275.11	-2,211.58	697.42	1,898,975.62	1,239,800.81	36.21127605	-107.60802030
9,293.00	90.05	130.330	5,275.50	-2,268.64	764.42	1,898,918.56	1,239,867.80	36.21112192	-107.60779055
9,380.00	90.25	130.450	5,275.27	-2,325.01	830.68	1,898,862.19	1,239,934.06	36.21096965	-107.60756331



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,468.00	90.23	129.610	5,274.90	-2,381.61	898.06	1,898,805.59	1,240,001.45	36.21081679	-107.60733227
9,556.00	90.74	129.330	5,274.16	-2,437.55	965.99	1,898,749.65	1,240,069.37	36.21066578	-107.60709941
9,644.00	89.66	130.220	5,273.85	-2,493.85	1,033.62	1,898,693.35	1,240,137.01	36.21051376	-107.60686754
9,732.00	88.61	128.770	5,275.18	-2,549.81	1,101.52	1,898,637.39	1,240,204.90	36.21036268	-107.60663479
9,820.00	88.91	130.900	5,277.08	-2,606.16	1,169.08	1,898,581.04	1,240,272.46	36.21021051	-107.60640318
9,907.00	89.19	130.510	5,278.53	-2,662.89	1,235.02	1,898,524.31	1,240,338.40	36.21005724	-107.60617701
9,994.00	89.56	130.100	5,279.48	-2,719.17	1,301.36	1,898,468.03	1,240,404.74	36.20990524	-107.60594951
10,081.00	89.95	129.720	5,279.85	-2,774.98	1,368.09	1,898,412.22	1,240,471.48	36.20975451	-107.60572072
10,169.00	90.37	131.450	5,279.60	-2,832.23	1,434.92	1,898,354.97	1,240,538.30	36.20959985	-107.60549153
10,255.00	90.71	131.300	5,278.79	-2,889.07	1,499.45	1,898,298.13	1,240,602.84	36.20944622	-107.60527015
10,343.00	90.87	130.980	5,277.58	-2,946.96	1,565.72	1,898,240.24	1,240,669.10	36.20928978	-107.60504284
10,431.00	91.04	130.690	5,276.11	-3,004.50	1,632.29	1,898,182.70	1,240,735.67	36.20913432	-107.60481451
10,518.00	91.13	130.270	5,274.46	-3,060.97	1,698.45	1,898,126.23	1,240,801.84	36.20898178	-107.60458762
10,605.00	90.83	129.480	5,272.98	-3,116.74	1,765.21	1,898,070.47	1,240,868.59	36.20883118	-107.60435875
10,692.00	90.24	131.620	5,272.16	-3,173.29	1,831.31	1,898,013.91	1,240,934.69	36.20867840	-107.60413207
10,780.00	90.42	131.270	5,271.66	-3,231.54	1,897.27	1,897,955.67	1,241,000.65	36.20852096	-107.60390578
10,868.00	90.20	130.650	5,271.18	-3,289.22	1,963.73	1,897,897.98	1,241,067.11	36.20836508	-107.60367785
10,956.00	90.05	129.980	5,270.99	-3,346.16	2,030.83	1,897,841.05	1,241,134.21	36.20821129	-107.60344777
11,043.00	90.38	131.490	5,270.66	-3,402.93	2,096.75	1,897,784.28	1,241,200.13	36.20805790	-107.60322169
11,131.00	90.45	131.030	5,270.03	-3,460.96	2,162.90	1,897,726.24	1,241,266.28	36.20790106	-107.60299477
11,219.00	90.46	130.800	5,269.33	-3,518.59	2,229.39	1,897,668.61	1,241,332.78	36.20774533	-107.60276670
11,307.00	90.50	130.550	5,268.59	-3,575.94	2,296.13	1,897,611.26	1,241,399.51	36.20759037	-107.60253782
11,395.00	90.34	129.950	5,267.94	-3,632.80	2,363.30	1,897,554.40	1,241,466.68	36.20743679	-107.60230753
11,482.00	90.19	129.630	5,267.54	-3,688.48	2,430.15	1,897,498.72	1,241,533.53	36.20728644	-107.60207836
11,569.00	91.06	131.070	5,266.59	-3,744.80	2,496.44	1,897,442.40	1,241,599.82	36.20713429	-107.60185104
11,657.00	91.07	130.710	5,264.96	-3,802.40	2,562.96	1,897,384.81	1,241,666.34	36.20697866	-107.60162291
11,745.00	90.87	130.020	5,263.47	-3,859.38	2,630.00	1,897,327.82	1,241,733.38	36.20682472	-107.60139304
11,834.00	91.11	129.710	5,261.93	-3,916.42	2,698.30	1,897,270.78	1,241,801.68	36.20667069	-107.60115888
11,922.00	90.83	129.090	5,260.44	-3,972.27	2,766.29	1,897,214.93	1,241,869.67	36.20651991	-107.60092584
12,010.00	88.96	129.470	5,260.60	-4,027.98	2,834.40	1,897,159.22	1,241,937.78	36.20636951	-107.60069239
12,098.00	90.68	130.220	5,260.88	-4,084.36	2,901.96	1,897,102.84	1,242,005.34	36.20621726	-107.60046078
12,186.00	90.82	129.690	5,259.73	-4,140.87	2,969.41	1,897,046.34	1,242,072.79	36.20606465	-107.60022954
12,273.00	90.84	131.060	5,258.47	-4,197.22	3,035.68	1,896,989.99	1,242,139.06	36.20591242	-107.60000231
12,361.00	89.60	129.730	5,258.13	-4,254.24	3,102.70	1,896,932.96	1,242,206.08	36.20575837	-107.59977252
12,448.00	91.09	130.960	5,257.60	-4,310.56	3,169.00	1,896,876.64	1,242,272.38	36.20560623	-107.59954518
12,535.00	91.41	130.540	5,255.71	-4,367.34	3,234.90	1,896,819.86	1,242,338.28	36.20545282	-107.59931921
12,623.00	90.48	129.450	5,254.25	-4,423.89	3,302.30	1,896,763.31	1,242,405.68	36.20530008	-107.59908812
12,710.00	90.66	131.050	5,253.39	-4,480.10	3,368.70	1,896,707.11	1,242,472.08	36.20514825	-107.59886048
12,798.00	91.52	130.670	5,251.71	-4,537.66	3,435.24	1,896,649.55	1,242,538.62	36.20499271	-107.59863227
12,884.00	91.75	130.540	5,249.26	-4,593.61	3,500.51	1,896,593.60	1,242,603.88	36.20484155	-107.59840847
12,972.00	90.88	131.870	5,247.24	-4,651.56	3,566.69	1,896,535.64	1,242,670.07	36.20468491	-107.59818145
13,060.00	90.83	131.210	5,245.93	-4,709.91	3,632.55	1,896,477.30	1,242,735.93	36.20452718	-107.59795552
13,147.00	90.89	130.900	5,244.62	-4,767.04	3,698.15	1,896,420.16	1,242,801.53	36.20437277	-107.59773054
13,235.00	90.80	130.290	5,243.32	-4,824.30	3,764.97	1,896,362.91	1,242,868.34	36.20421807	-107.59750143
13,322.00	90.15	128.940	5,242.60	-4,879.77	3,831.98	1,896,307.44	1,242,935.36	36.20406829	-107.59727173
13,410.00	89.78	130.600	5,242.66	-4,936.06	3,899.62	1,896,251.14	1,243,002.99	36.20391627	-107.59703988
13,497.00	89.37	130.350	5,243.30	-4,992.53	3,965.80	1,896,194.67	1,243,069.17	36.20376370	-107.59681297
13,584.00	89.21	132.190	5,244.38	-5,049.91	4,031.18	1,896,137.29	1,243,134.55	36.20360861	-107.59658871
13,672.00	89.76	132.170	5,245.17	-5,109.00	4,096.39	1,896,078.21	1,243,199.76	36.20344882	-107.59636496
13,760.00	89.78	131.700	5,245.52	-5,167.81	4,161.85	1,896,019.40	1,243,265.23	36.20328981	-107.59614037
13,848.00	90.23	131.600	5,245.52	-5,226.29	4,227.60	1,895,960.92	1,243,330.98	36.20313170	-107.59591480
13,935.00	90.41	131.150	5,245.03	-5,283.79	4,292.89	1,895,903.41	1,243,396.26	36.20297626	-107.59569087
14,023.00	90.70	130.890	5,244.18	-5,341.55	4,359.28	1,895,845.66	1,243,462.65	36.20282017	-107.59546318
14,110.00	90.70	130.500	5,243.12	-5,398.27	4,425.24	1,895,788.94	1,243,528.61	36.20266690	-107.59523701
14,198.00	89.54	129.230	5,242.93	-5,454.67	4,492.78	1,895,732.53	1,243,596.15	36.20251457	-107.59500549



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,286.00	88.46	129.210	5,244.47	-5,510.31	4,560.94	1,895,676.90	1,243,664.32	36.20236438	-107.59477189
14,373.00	88.92	131.000	5,246.46	-5,566.33	4,627.47	1,895,620.87	1,243,730.84	36.20221304	-107.59454384
14,461.00	89.15	130.700	5,247.94	-5,623.89	4,694.02	1,895,563.32	1,243,797.40	36.20205751	-107.59431560
14,549.00	89.44	130.550	5,249.02	-5,681.18	4,760.81	1,895,506.03	1,243,864.18	36.20190271	-107.59408660
14,637.00	89.95	130.290	5,249.49	-5,738.24	4,827.80	1,895,448.97	1,243,931.18	36.20174856	-107.59385691
14,724.00	89.90	130.060	5,249.60	-5,794.36	4,894.28	1,895,392.85	1,243,997.65	36.20159694	-107.59362902
14,812.00	90.21	129.890	5,249.52	-5,850.90	4,961.71	1,895,336.31	1,244,065.09	36.20144424	-107.59339785
14,899.00	90.31	129.610	5,249.12	-5,906.53	5,028.60	1,895,280.68	1,244,131.98	36.20129400	-107.59316859
14,987.00	89.07	131.440	5,249.60	-5,963.70	5,095.49	1,895,223.50	1,244,198.86	36.20113952	-107.59293926
15,075.00	89.27	131.070	5,250.88	-6,021.73	5,161.64	1,895,165.48	1,244,265.01	36.20098268	-107.59271239
15,163.00	89.13	130.650	5,252.10	-6,079.29	5,228.18	1,895,107.92	1,244,331.56	36.20082711	-107.59248418
15,250.00	89.33	130.470	5,253.27	-6,135.86	5,294.27	1,895,051.35	1,244,397.65	36.20067427	-107.59225758
15,338.00	89.40	130.100	5,254.25	-6,192.75	5,361.40	1,894,994.46	1,244,464.77	36.20052057	-107.59202746
15,426.00	88.62	129.270	5,255.77	-6,248.94	5,429.11	1,894,938.27	1,244,532.48	36.20036883	-107.59179538
15,514.00	89.77	130.620	5,257.01	-6,305.43	5,496.57	1,894,881.78	1,244,599.94	36.20021625	-107.59156416
15,602.00	89.43	129.680	5,257.62	-6,362.17	5,563.83	1,894,825.04	1,244,667.20	36.20006297	-107.59133358
15,689.00	90.99	132.240	5,257.30	-6,419.19	5,629.52	1,894,768.01	1,244,732.89	36.19990885	-107.59110832
15,777.00	90.79	131.470	5,255.93	-6,477.90	5,695.06	1,894,709.30	1,244,798.43	36.19975010	-107.59088349
15,865.00	90.68	131.250	5,254.81	-6,536.05	5,761.10	1,894,651.16	1,244,864.48	36.19959292	-107.59065698
15,952.00	90.68	131.040	5,253.77	-6,593.29	5,826.61	1,894,593.92	1,244,929.99	36.19943821	-107.59043232
16,040.00	90.70	130.660	5,252.71	-6,650.84	5,893.17	1,894,536.37	1,244,996.55	36.19928267	-107.59020408
16,128.00	90.41	130.170	5,251.86	-6,707.89	5,960.17	1,894,479.32	1,245,063.54	36.19912853	-107.58997439
16,216.00	90.00	129.530	5,251.55	-6,764.28	6,027.73	1,894,422.93	1,245,131.10	36.19897623	-107.58974283
16,302.00	89.92	129.020	5,251.61	-6,818.72	6,094.30	1,894,368.49	1,245,197.68	36.19882924	-107.58951470
16,390.00	89.57	128.280	5,252.00	-6,873.68	6,163.03	1,894,313.53	1,245,266.40	36.19868090	-107.58927926
16,477.00	88.72	130.880	5,253.30	-6,929.10	6,230.07	1,894,258.11	1,245,333.44	36.19853123	-107.58904951
16,565.00	88.82	130.330	5,255.18	-6,986.36	6,296.86	1,894,200.85	1,245,400.24	36.19837651	-107.58882050
16,652.00	88.49	129.940	5,257.23	-7,042.43	6,363.36	1,894,144.78	1,245,466.73	36.19822505	-107.58859256
16,740.00	89.67	131.290	5,258.64	-7,099.70	6,430.15	1,894,087.51	1,245,533.52	36.19807028	-107.58836357
16,828.00	89.31	130.310	5,259.42	-7,157.20	6,496.76	1,894,030.01	1,245,600.13	36.19791489	-107.58813517
16,915.00	91.17	132.800	5,259.06	-7,214.90	6,561.86	1,893,972.31	1,245,665.23	36.19775889	-107.58791191
17,003.00	91.43	132.110	5,257.06	-7,274.29	6,626.77	1,893,912.92	1,245,730.14	36.19759825	-107.58768919
17,091.00	90.92	131.290	5,255.26	-7,332.82	6,692.45	1,893,854.39	1,245,795.83	36.19744000	-107.58746387
17,179.00	90.95	131.100	5,253.82	-7,390.77	6,758.66	1,893,796.44	1,245,862.03	36.19728335	-107.58723682
17,267.00	90.79	130.780	5,252.49	-7,448.42	6,825.13	1,893,738.79	1,245,928.50	36.19712752	-107.58700891
17,354.00	89.53	131.270	5,252.24	-7,505.53	6,890.76	1,893,681.68	1,245,994.13	36.19697317	-107.58678386
17,442.00	89.44	130.910	5,253.03	-7,563.36	6,957.08	1,893,623.85	1,246,060.46	36.19681684	-107.58655644
17,530.00	89.25	130.550	5,254.04	-7,620.78	7,023.77	1,893,566.43	1,246,127.14	36.19666168	-107.58632782
17,617.00	89.27	130.360	5,255.16	-7,677.22	7,089.96	1,893,509.99	1,246,193.33	36.19650916	-107.58610089
17,705.00	88.82	129.540	5,256.63	-7,733.72	7,157.41	1,893,453.49	1,246,260.78	36.19635655	-107.58586971
17,793.00	89.21	131.170	5,258.14	-7,790.69	7,224.46	1,893,396.52	1,246,327.83	36.19620262	-107.58563987
17,880.00	89.28	130.680	5,259.29	-7,847.68	7,290.19	1,893,339.53	1,246,393.56	36.19604860	-107.58541450
17,967.00	89.34	130.440	5,260.34	-7,904.25	7,356.28	1,893,282.96	1,246,459.65	36.19589574	-107.58518792
18,055.00	89.43	130.120	5,261.28	-7,961.14	7,423.41	1,893,226.07	1,246,526.78	36.19574203	-107.58495781
18,142.00	89.10	129.550	5,262.40	-8,016.86	7,490.21	1,893,170.35	1,246,593.58	36.19559151	-107.58472886
18,230.00	89.23	129.030	5,263.68	-8,072.58	7,558.31	1,893,114.63	1,246,661.68	36.19544106	-107.58449552
18,317.00	89.68	128.810	5,264.51	-8,127.24	7,626.00	1,893,059.98	1,246,729.36	36.19529351	-107.58426364
18,395.00	88.80	128.060	5,265.54	-8,175.72	7,687.09	1,893,011.49	1,246,790.46	36.19516267	-107.58405438
Survey @ 18395.00 MD 5265.54 TVD									
18,404.90	88.80	128.060	5,265.75	-8,181.82	7,694.88	1,893,005.39	1,246,798.25	36.19514621	-107.58402769
LTP @ 18404.90 MD 5265.75 TVD									
18,454.00	88.80	128.060	5,266.78	-8,212.08	7,733.53	1,892,975.13	1,246,836.90	36.19506455	-107.58389532
Survey proj. to 18454 MD 5266.78 TVD 1640 FSL 1460 FWL									



Survey Report - Geographic



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well North Alamito Unit 106 H
Project:	Sandoval County, New Mexico NAD83 NM C	TVD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Site:	North Alamito Unit (102 & 106)	MD Reference:	RKB=6962+23.5 @ 6985.50ft (Ensign 140)
Well:	North Alamito Unit 106 H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	MWD surveys	Database:	DT_May1924_v17

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
440.00	440.00	0.22	-0.53	MWD surveys
5,935.95	5,266.70	-101.36	-1,793.48	FTP @ 5935.95 MD 5266.70 TVD
6,062.00	5,295.58	-178.38	-1,698.31	9 5/8" Shoe @ 6062.00 MD 5295.58 TVD
18,395.00	5,265.54	-8,175.72	7,687.09	Survey @ 18395.00 MD 5265.54 TVD
18,404.90	5,265.75	-8,181.82	7,694.88	LTP @ 18404.90 MD 5265.75 TVD
18,454.00	5,266.78	-8,212.08	7,733.53	Survey proj. to 18454 MD 5266.78 TVD 1640 FSL 1460 FWL



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

Well Completion Print

09/20/2024

Operator Name DJR OPERATING LLC	Well Name NORTH ALAMITO UNIT	Well Number 106H	US Well Number 3004321508
SHL NENE Sec 19 23N 7W	County SANDOVAL	State NM	Lease Number(s) NMNM81638
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name NORTH ALAMITO UNIT	Agreement Number(s) NMNM135229A
Allottee/Tribe Name	Well Pad Name NORTH ALAMITO UNIT	Well Pad Number 102H, 106H	APD ID 10400076976

Section 1 - General

Well Completion Report Id: 93070**Submission Date:** 09-13-2024**BLM Office:** Farmington Field Office**User:** HEATHER HUNTINGTON**Title:** Permitting Technician**Federal/Indian:** FEDERAL**Lease Number:** NMNM81638**Lease Acres:****Agreement in place?:** YES**Federal or Indian Agreement:** INDIAN**Agreement Number:****Agreement Name:** NORTH ALAMITO**Additional Information****Keep this Well Completion Report confidential?:** YES**APD Operator:** DJR OPERATING LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:** NORTH ALAMITO UNIT**Field Name:** BASIN MANCOS**Well Type:** OIL WELL**Spud Date:** 01-30-2023**Date Total Measured Depth Reached:** 06-10-2024**Drill & Abandon or Ready To Produce:** READY TO PRODUCE**Well Class:** HORIZONTAL

Operator Name DJR OPERATING LLC	Well Name NORTH ALAMITO UNIT	Well Number 106H	US Well Number 3004321508
SHL NENE Sec 19 23N 7W	County SANDOVAL	State NM	Lease Number(s) NMNM81638
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name NORTH ALAMITO UNIT	Agreement Number(s) NMNM135229A
Allottee/Tribe Name	Well Pad Name NORTH ALAMITO UNIT	Well Pad Number 102H, 106H	APD ID 10400076976

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
OJO ALAMAO	SANDSTONE		5915	1071	1080	USEABLE WATER	
KIRTLAND	SHALE		5800	1186	1202	NONE	
FRUITLAND	COAL		5630	1356	1388	NATURAL GAS	
PICTURED CLIFFS	SANDSTONE		5294	1692	1774	USEABLE WATER	
LEWIS	SHALE		5139	1847	1954	NONE	
CHACRA	SANDSTONE		4889	2097	2243	NONE	
CLIFFHOUSE	COAL, SANDSTONE		3802	3184	3500	NATURAL GAS	
MENEFEE	SANDSTONE		3761	3225	3546	NATURAL GAS	
POINT LOOKOUT	SHALE		2930	4056	4507	NATURAL GAS	
MANCOS	SILTSTONE		2720	4266	4750	NATURAL GAS, OIL	
GALLUP	SILTSTONE		2381	4605	5130	NATURAL GAS, OIL	

Completion and Completed

Operator Name DJR OPERATING LLC	Well Name NORTH ALAMITO UNIT	Well Number 106H	US Well Number 3004321508
SHL NENE Sec 19 23N 7W	County SANDOVAL	State NM	Lease Number(s) NMNM81638
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name NORTH ALAMITO UNIT	Agreement Number(s) NMNM135229A
Allottee/Tribe Name	Well Pad Name NORTH ALAMITO UNIT	Well Pad Number 102H, 106H	APD ID 10400076976

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	NMNM135229A	NMNM81638	NEW		POW	08-10-2024	08-11-2024	GALLUP	5957	18385	Y	.3	2604	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	162353	12493028	CHEMICAL DISCLOSURE UPLOADED TO FRAC FOCUS 7/9/24

Production Data

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

Operator Name DJR OPERATING LLC	Well Name NORTH ALAMITO UNIT	Well Number 106H	US Well Number 3004321508
SHL NENE Sec 19 23N 7W	County SANDOVAL	State NM	Lease Number(s) NMNM81638
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name NORTH ALAMITO UNIT	Agreement Number(s) NMNM135229A
Allottee/Tribe Name	Well Pad Name NORTH ALAMITO UNIT	Well Pad Number 102H, 106H	APD ID 10400076976

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	08/13/2024	24	600	672	408	1120	64/64	250		825

Well Location

Survey Type: RECTANGULAR

Survey Number:

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/L of Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.217323	-107.610489	6962	N/A	N/A	FEDERAL	NMNM81638				897	FNL	1158	FEL	23N	7W	19	NENE
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.217672	-107.617466	6558	404	404	FEDERAL	NMNM81638				774	FNL	2011	FWL	23N	7W	19	NENW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.198399	-107.588867	1696	18431	5266	FEDERAL	NMNM36943				2481	FNL	1	FWL	23N	7W	29	SWNW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.197889	-107.588122	1696	18431	5266	FEDERAL	NMNM58878				2668	FSL	219	FWL	23N	7W	28	NWSW

Operator Name DJR OPERATING LLC	Well Name NORTH ALAMITO UNIT	Well Number 106H	US Well Number 3004321508
SHL NENE Sec 19 23N 7W	County SANDOVAL	State NM	Lease Number(s) NMNM81638
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name NORTH ALAMITO UNIT	Agreement Number(s) NMNM135229A
Allottee/Tribe Name	Well Pad Name NORTH ALAMITO UNIT	Well Pad Number 102H, 106H	APD ID 10400076976

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.205197	-107.598936	1696	18431	5266	FEDERAL	NMNM36943				1	FNL	2248	FWL	23N	7W	29	NENW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.216975	-107.616563	1696	18431	5266	FEDERAL	NMNM81638				1027	FNL	2277	FWL	23N	7W	19	NENW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.210311	-107.606556	1696	18431	5266	FEDERAL	NMNM81638				1870	FSL	1	FWL	23N	7W	20	NWSW
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.195146	-107.584028	1696	18444	5266	FEDERAL	NMNM58878				1677	FSL	1413	FWL	23N	7W	28	NESW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	SANDOVAL	36.195146	-107.584028	1696	18454	5266	FEDERAL	NMNM58878	5266	18431		1670	FSL	1421	FWL	23N	7W	28	NESW

Casing, Liner and Tubing

Operator Name DJR OPERATING LLC	Well Name NORTH ALAMITO UNIT	Well Number 106H	US Well Number 3004321508
SHL NENE Sec 19 23N 7W	County SANDOVAL	State NM	Lease Number(s) NMNM81638
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name NORTH ALAMITO UNIT	Agreement Number(s) NMNM135229A
Allottee/Tribe Name	Well Pad Name NORTH ALAMITO UNIT	Well Pad Number 102H, 106H	APD ID 10400076976

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	12.25	0	404	9.625	36	J-55		LT&C		
00	INTERMEDIATE	8.75	0	6062	7.0	26	J-55		LT&C		
00	LINER	6.125	5906	18444	4.5	11.6	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		I-II	109	1.61	0					31.3
00	INTERMEDIATE		III/POZ	628	2.15	0	III/POZ	151	1.5	4300	280.8
00	LINER		POZ/G	1011	1.52	5906					273.7

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		6107	5927	6	L-80		ST&C	

Operator Name DJR OPERATING LLC	Well Name NORTH ALAMITO UNIT	Well Number 106H	US Well Number 3004321508
SHL NENE Sec 19 23N 7W	County SANDOVAL	State NM	Lease Number(s) NMNM81638
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name NORTH ALAMITO UNIT	Agreement Number(s) NMNM135229A
Allottee/Tribe Name	Well Pad Name NORTH ALAMITO UNIT	Well Pad Number 102H, 106H	APD ID 10400076976

North_Alamito_Unit_106_H_surveys_PVA_Final_20240913141223.pdf

WBD_N_ALAMITO_106H_09.13.24_20240913143248.pdf

NAU__106H_ASDRILLED_REV1_20240913143650.pdf

CONFIDENTIAL

From: blm-afmss-notifications@blm.gov
To: [Heather Huntington](#)
Subject: Well Name: NORTH ALAMITO UNIT, Well Number: 106H, Notification of Well Completion Acceptance
Date: Thursday, September 19, 2024 3:13:11 PM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **DJR OPERATING LLC**
- Well Name: **NORTH ALAMITO UNIT**
- Well Number: **106H**
- US Well Number: **3004321508**
- Well Completion Report Id: **WCR2024091993070**

This notification is automatically generated. Please do not reply to this message as this account is not monitored.

WELL NAME: NORTH ALAMITO UNIT 106H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Gallup formation

API Number: 30-043-21508
AFE Number: DV03212

ER Well Number: Not yet assigned
State: New Mexico

County: Sandoval
Surface Elev.: 6,962 ft ASL (GL) 6,986 ft ASL (KB)
Surface Location: 19-23N-07W Sec-Twn- Rng 897 ft FNL 1,158 ft FEL
BH Location: 28-23N-07W Sec-Twn- Rng 1670 ft FNL 1421 ft FEL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:
South on US Hwy 550 for 39.0 miles to MM 112.7, Right (South) on CR #7900 / IR #7061 for 5.1 miles to Y (just passed 4-way), Left (East) leaving CR #7900 for 4.0 miles to lease road; Left (NorthEast) for 1.8 miles to new access; Right (North) for 1.5 miles to NAU A19-2307 pad entrance on left (from South to North): N Alamito 102H, 106H wells).

QUICK REFERENCE	
Sur TD (MD)	409 ft
Int TD (MD)	6,073 ft
KOP (MD)	4,961 ft
KOP (TVD)	4,448 ft
Target (TVD)	5,269 ft
Curve BUR	10 °/100 ft
POE (MD)	5,964 ft
TD (MD)	18,454 ft
Lat Len (ft)	12,473 ft

Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	1,071	1,080
Kirtland	1,186	1,202
Fruitland	1,356	1,388
Pictured Cliffs	1,692	1,774
Lewis	1,847	1,954
Chacra	2,097	2,243
Cliff House	3,184	3,500
Menefee	3,225	3,546
Point Lookout	4,056	4,507
Mancos	4,266	4,750
Gallup (MNCS_A)	4,605	5,130

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	409	9.625	36	J-55	STC	0	404
Intermediate	8.750	6,073	7	26.0	J-55	LTC	0	6,062
Production	6.125	18,454	4.500	11.6	P-110	BTC	5,906	18,444

CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.6	1.61	7.41	0.3132	50%	0	109
Inter. (Lead)	III:POZ Blend	12.5	2.15	12	0.1668	70%	0	628
Inter. (Tail)	Type III	13.5	1.71	8.88	0.1503	20%	4,300	151
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.520	7.5	0.0873	30%	5,906	1,011

COMPLETION / PRODUCTION SUMMARY:

Frac: Perf, Plug & Frac 62 stages: 3 spf. 0.30" diameter from 5957' to 18385' MD (5266' to 5265' TVD)
Flowback: Total of 2604 open holes. As pumped:162,353 bbls of fluid. 12,493,028 lbs of proppant.
Production: Produce through production tubing via gas-lift into permanent production and storage facilities



Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

5. Lease Serial No.
NMNM81638

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
DJR OPERATING LLC

3a. Address 1700 LINCOLN STREET SUITE 2800, DENVER, 3b. Phone No. (include area code)
(303) 595-7433

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 19/T23N/R7W/NMP

7. If Unit of CA/Agreement, Name and/or No.
NORTH ALAMITO UNIT/NMNM135229A

8. Well Name and No.
NORTH ALAMITO UNIT/106H

9. API Well No. 3004321508

10. Field and Pool or Exploratory Area
BASIN MANCOS/NORTH ALAMITO UNIT MANCOS OIL

11. Country or Parish, State
SANDOVAL/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☒ Subsequent Report	☐ Alter Casing	☒ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Completion

6/19/24-6/20/24: NU. PT pumps and lines at 9500 psi, pd iron to 9,000 psi, annulus to 1600 psi, all tests good & recorded on chart. Open well, increase pressure, Frac Sleeve opened at 7340 psi.

6/21/24-6/27/24: Operations to recover downhole tools

6/28/24-7/9/24: Perf, Plug & Frac 62 stages: 3 spf. 0.30 diameter from 5957 to 18385 MD (5266 to 5265 TVD). Total of 2604 open holes. As pumped:162,353 bbls of fluid. 12,493,028 lbs of proppant.

7/28/24-8/9/24: MIRU AWS 812. NU BOP. Full function PT to L400 H4500 (30min) test good & recorded on chart. TIH. Drill out plugs. TOH

8/10/24: RIH with production string. Land 185 jts of 2.875 6.5# L80 EUE tubing. EOT: 6107. Seven GLVs set at

1402-2126-2816-2508-4165-4790-5317. POH. ND BOPE. NU production tree & PT to 5k (30min) test good & recorded on chart. Turn well over to production. Rig released on 8/11/24.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
HEATHER HUNTINGTON / Ph: (505) 636-9751

Title
Permitting Technician

Signature (Electronic Submission)

Date
08/23/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
MATTHEW H KADE / Ph: (505) 564-7736 / Accepted

Title
Petroleum Engineer

Date
08/26/2024

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office
FARMINGTON

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NENE / 897 FNL / 1158 FEL / TWSP: 23N / RANGE: 7W / SECTION: 19 / LAT: 36.217323 / LONG: -107.610489 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 1436 FNL / 1990 FEL / TWSP: 23N / RANGE: 7W / SECTION: 19 / LAT: 36.215852 / LONG: -107.613305 (TVD: 5283 feet, MD: 5791 feet)

PPP: NWSW / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 7W / SECTION: 20 / LAT: 36.2114101 / LONG: -107.6066101 (TVD: 5285 feet, MD: 14654 feet)

PPP: NENW / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 7W / SECTION: 29 / LAT: 36.2052901 / LONG: -107.597901 (TVD: 5285 feet, MD: 14654 feet)

BHL: SENE / 1921 FNL / 579 FEL / TWSP: 23N / RANGE: 7W / SECTION: 29 / LAT: 36.199935 / LONG: -107.590841 (TVD: 5285 feet, MD: 14654 feet)

CONFIDENTIAL

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 397972

ACKNOWLEDGMENTS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 397972
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

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.
☒	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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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Energy, Minerals and Natural Resources
Oil Conservation Division
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CONDITIONS

Action 397972

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 397972
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	11/22/2024