

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

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address DJR Operating, LLC 1 Road 3263 Aztec, NM 87410		² OGRID Number 371838	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-045-38188	⁵ Pool Name Alamito N; Mancos (Oil)		⁶ Pool Code 98174
⁷ Property Code 325267	⁸ Property Name North Alamito Unit		⁹ Well Number 404H

II. ¹⁰ Surface Location

Ul or lot no. P	Section 36	Township 23N	Range 8W	Lot Idn	Feet from the 432'	North/South Line South	Feet from the 635'	East/West line East	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. E	Section 8	Township 22N	Range 7W	Lot Idn	Feet from the 1731'	North/South line North	Feet from the 1162'	East/West line West	County Sandoval
¹² Lse Code F	¹³ Producing Method Code F		¹⁴ Gas Connection Date TBD		¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date	

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
248440	Western Refining Company, LP 6500 Townbridge Drive, El Paso, TX 79905	O
151618	Enterprise Field Services, LLC Post Office Box 4503, Houston, TX 77001	G
	~Gas will be flared during flowback & until N2 & O2 is cleaned from the wellbore~	

IV. Well Completion Data

²¹ Spud Date 03/24/20	²² Ready Date 04/22/2021	²³ TD 15,049' MD 4,979' TVD	²⁴ PBTD 15,025' MD 4,979' TVD	²⁵ Perforations 5,874'-14,973' MD 5,002'-4,980' TVD Frac Sleeve @ 14,999'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
12.25		9.625" 36# J55		378'	109
8.75		7" 26# J55		5,477'	Lead: 383 Tail: 232
6.125		4.5" 11.6# P110		TOL:5,134' BOL: 15,040'	839

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Shaw-Marie Ford</i>			OIL CONSERVATION DIVISION Approved by: <i>Amy Fennisch</i>		
Printed name: Shaw-Marie Ford			Title: Data Compliance Manager		
Title: Regulatory Specialist			Approval Date: 4/21/21		
E-mail Address: sford@djrlc.com					
Date: 02/09/2021		Phone: 505-716-3297			

DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3480 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-045-38188	² Pool Code 98174	³ Pool Name North Alamito Unit Mancos Oil Pool
⁴ Property Code 325267	⁵ Property Name North Alamito Unit	⁶ Well Number 404H
⁷ OGRID No. 371838	⁸ Operator Name DJR Operating, LLC	⁹ Elevation 6949

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	23 N	8 W		432	South	635	East	San Juan

¹¹ Bottom Hole Location If Different From Surface

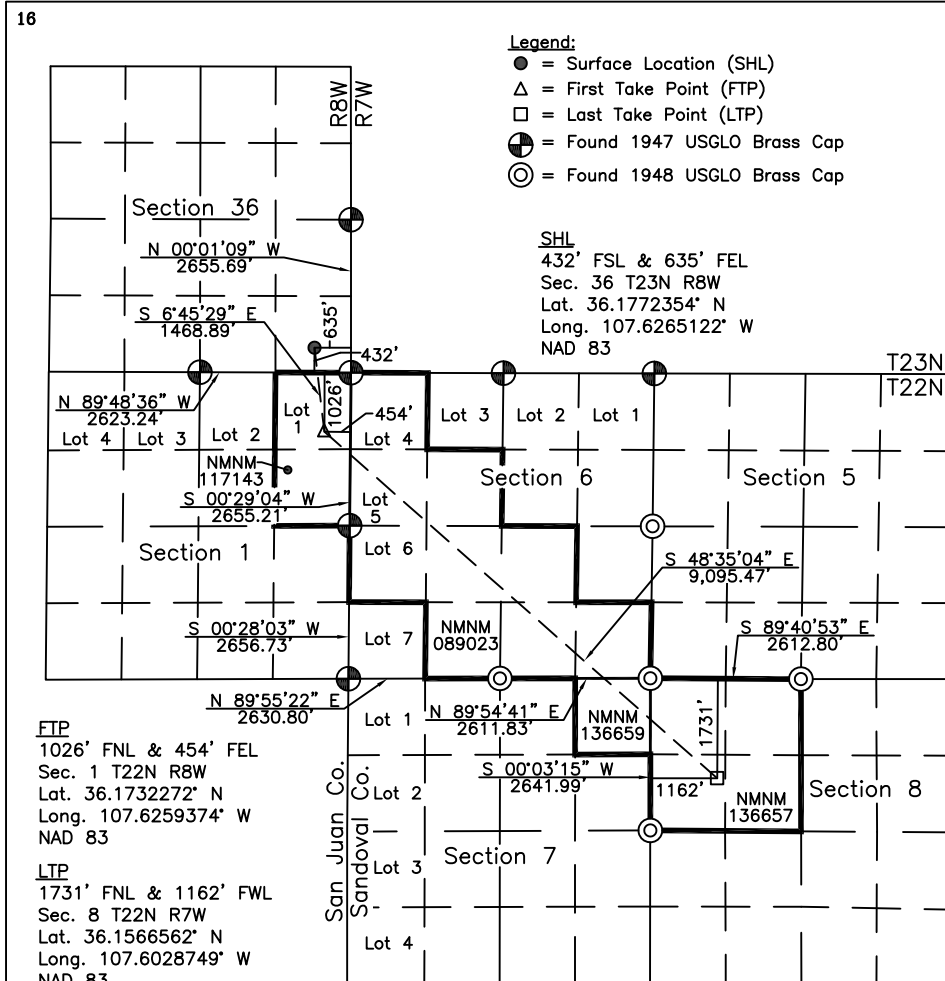
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	8	22 N	7 W		1731	North	1162	West	Sandoval

¹² Dedicated Acres
SEC.=1 LOT 1 (40.15 AC.), SE/NE, SEC. 6=LOT 4 (40.74 AC.), LOT 5 (40.72 AC.), SE/NW,
LOT 6 (40.74 AC.) E/2 SW, W/2 SE, SE/SE, SEC. 7=NE/NE, SEC. 8=NW/4,
TOTAL = 642.35 ACRES

¹³ Joint or Infill¹⁴ Consolidation Code¹⁵ Order No.

R-14081, R-14081A

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Shaw-Marie Ford 4/8/21

Signature Date

Shaw-Marie Ford

Printed Name

sford@djrlc.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

3/27/19

Date of Survey

Plat Revised: 2/5/21

Signature and Seal of Professional Surveyor:

Preliminary

Certificate Number

**Directional Survey Certification**

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	DJR Operating
Well Name & No.	North Alamito P36 2308 404H
County & State	Sadoval, NM
SDI Job No.	OP.024752
Rig	Aztec 920

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 441 feet to a measured depth of 15,049 feet is true and correct as determined from all available records.

A handwritten signature in blue ink, appearing to read 'Janie Collins', written over a horizontal line.

Signature

29-Apr-20

Date

Janie Collins

Colorado District Well Planner
Scientific Drilling International



Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 404H
Project:	North Alamito Unit	TVD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Site:	P36 2308	MD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Well:	NAU 404H	North Reference:	True
Wellbore:	Original drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original drilling	Database:	Grand Junction

Project	North Alamito Unit		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site		P36 2308				
Site Position:		Northing:	1,883,911.47 usft	Latitude:	36.1773337	
From:	Lat/Long	Easting:	2,784,111.65 usft	Longitude:	-107.6265728	
Position Uncertainty:		0.00 usft	Slot Radius:	16.00 in	Grid Convergence:	0.12 °

Well		NAU 404H				
Well Position	+N/-S	0.00 usft	Northing:	1,883,875.73 usft	Latitude:	36.1772354
	+E/-W	0.00 usft	Easting:	2,784,129.61 usft	Longitude:	-107.6265122
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,948.00 usft

Wellbore	Original drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	4/7/2020	8.70	62.75	49,286.30000000

Design	Original drilling				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	136.891	

Survey Program	Date	4/29/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
441.00	4,291.00	Survey #1 - Surface MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
4,350.00	5,424.00	Survey #2 - Curve MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
5,505.00	15,049.00	Survey #3 - Lateral MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
441.00	1.43	249.800	440.95	-1.90	-5.16	-2.14	0.32	0.32	0.00	
502.00	2.84	225.590	501.91	-3.22	-6.96	-2.40	2.69	2.31	-39.69	
562.00	5.47	213.360	561.75	-6.65	-9.59	-1.70	4.60	4.38	-20.38	
622.00	6.52	209.540	621.42	-12.00	-12.85	-0.02	1.87	1.75	-6.37	
684.00	7.76	216.800	682.94	-18.42	-17.09	1.77	2.47	2.00	11.71	
745.00	8.19	219.240	743.35	-25.08	-22.30	3.07	0.90	0.70	4.00	
805.00	8.40	222.760	802.72	-31.61	-27.98	3.95	0.92	0.35	5.87	
865.00	9.97	220.620	861.95	-38.77	-34.34	4.84	2.68	2.62	-3.57	



Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 404H
Project:	North Alamito Unit	TVD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Site:	P36 2308	MD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Well:	NAU 404H	North Reference:	True
Wellbore:	Original drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original drilling	Database:	Grand Junction

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
926.00	10.30	219.460	922.00	-46.99	-41.24	6.12	0.64	0.54	-1.90
987.00	10.49	219.770	982.00	-55.47	-48.26	7.51	0.32	0.31	0.51
1,048.00	10.29	219.690	1,042.00	-63.93	-55.29	8.88	0.33	-0.33	-0.13
1,108.00	9.60	216.840	1,101.10	-72.05	-61.72	10.43	1.41	-1.15	-4.75
1,169.00	10.78	216.090	1,161.13	-80.73	-68.13	12.38	1.95	1.93	-1.23
1,230.00	12.07	219.060	1,220.92	-90.30	-75.51	14.32	2.32	2.11	4.87
1,292.00	11.86	219.840	1,281.58	-100.22	-83.67	15.99	0.43	-0.34	1.26
1,354.00	12.84	224.310	1,342.14	-110.04	-92.57	17.08	2.21	1.58	7.21
1,415.00	12.79	224.270	1,401.62	-119.73	-102.01	17.69	0.08	-0.08	-0.07
1,475.00	13.42	223.860	1,460.06	-129.51	-111.48	18.37	1.06	1.05	-0.68
1,536.00	13.73	224.490	1,519.36	-139.77	-121.45	19.04	0.56	0.51	1.03
1,597.00	13.64	223.140	1,578.63	-150.19	-131.44	19.82	0.54	-0.15	-2.21
1,658.00	13.90	218.550	1,637.87	-161.17	-140.93	21.35	1.84	0.43	-7.52
1,719.00	13.76	213.570	1,697.11	-172.94	-149.51	24.08	1.96	-0.23	-8.16
1,781.00	14.55	217.480	1,757.23	-185.26	-158.32	27.06	2.00	1.27	6.31
1,841.00	15.10	221.930	1,815.23	-197.06	-168.13	28.97	2.11	0.92	7.42
1,904.00	15.31	224.930	1,876.03	-209.05	-179.49	29.96	1.29	0.33	4.76
1,967.00	15.23	221.880	1,936.80	-221.10	-190.89	30.97	1.28	-0.13	-4.84
2,030.00	15.61	225.820	1,997.54	-233.17	-202.49	31.85	1.77	0.60	6.25
2,093.00	15.24	233.000	2,058.27	-244.06	-215.18	31.13	3.09	-0.59	11.40
2,156.00	14.47	233.890	2,119.17	-253.69	-228.16	29.29	1.27	-1.22	1.41
2,220.00	15.63	232.500	2,180.97	-263.65	-241.46	27.47	1.90	1.81	-2.17
2,283.00	15.44	234.350	2,241.67	-273.70	-255.00	25.55	0.84	-0.30	2.94
2,346.00	14.04	236.070	2,302.59	-282.85	-268.16	23.24	2.33	-2.22	2.73
2,409.00	14.00	236.800	2,363.72	-291.40	-280.80	20.84	0.12	-0.06	-0.43
2,473.00	13.41	234.140	2,425.90	-300.10	-293.22	18.71	1.11	-0.92	-2.59
2,536.00	12.85	231.070	2,487.25	-308.78	-304.59	17.28	1.42	-0.89	-4.87
2,599.00	13.76	232.330	2,548.56	-317.77	-315.97	16.05	1.52	1.44	2.00
2,662.00	14.23	229.320	2,609.69	-327.39	-327.77	15.02	1.38	0.75	-4.78
2,725.00	13.64	233.830	2,670.84	-336.82	-339.64	13.79	1.96	-0.94	7.16
2,788.00	13.57	236.040	2,732.07	-345.34	-351.77	11.72	0.83	-0.11	3.51
2,851.00	13.11	233.730	2,793.37	-353.69	-363.66	9.69	1.12	-0.73	-3.67
2,914.00	13.09	233.700	2,854.73	-362.14	-375.17	8.00	0.03	-0.03	-0.05
2,977.00	12.15	228.350	2,916.21	-370.77	-385.88	6.98	2.38	-1.49	-8.49
3,040.00	11.85	226.240	2,977.83	-379.65	-395.50	6.89	0.84	-0.48	-3.35
3,103.00	12.03	223.790	3,039.47	-388.87	-404.72	7.31	0.85	0.29	-3.89
3,166.00	11.90	222.170	3,101.10	-398.42	-413.62	8.20	0.57	-0.21	-2.57
3,229.00	12.10	222.300	3,162.72	-408.12	-422.43	9.27	0.32	0.32	0.21
3,293.00	11.85	219.750	3,225.33	-418.13	-431.14	10.62	0.91	-0.39	-3.98
3,356.00	11.82	218.330	3,286.99	-428.17	-439.28	12.39	0.46	-0.05	-2.25
3,419.00	12.27	215.560	3,348.61	-438.67	-447.18	14.66	1.16	0.71	-4.40
3,482.00	12.25	215.100	3,410.17	-449.59	-454.91	17.34	0.16	-0.03	-0.73
3,545.00	12.99	216.170	3,471.65	-460.77	-462.93	20.03	1.23	1.17	1.70



Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 404H
Project:	North Alamito Unit	TVD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
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Well:	NAU 404H	North Reference:	True
Wellbore:	Original drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original drilling	Database:	Grand Junction

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,608.00	12.77	215.490	3,533.06	-472.16	-471.15	22.72	0.42	-0.35	-1.08	
3,671.00	12.21	217.260	3,594.57	-483.13	-479.23	25.21	1.08	-0.89	2.81	
3,734.00	13.00	214.600	3,656.05	-494.26	-487.29	27.83	1.56	1.25	-4.22	
3,797.00	12.94	214.760	3,717.45	-505.89	-495.33	30.82	0.11	-0.10	0.25	
3,860.00	13.54	216.840	3,778.77	-517.59	-503.78	33.59	1.22	0.95	3.30	
3,923.00	14.71	219.210	3,839.87	-529.69	-513.26	35.95	2.07	1.86	3.76	
3,986.00	14.98	221.380	3,900.76	-542.00	-523.69	37.80	0.98	0.43	3.44	
4,049.00	13.10	224.320	3,961.88	-553.22	-534.07	38.90	3.19	-2.98	4.67	
4,112.00	11.76	222.200	4,023.40	-563.08	-543.37	39.75	2.25	-2.13	-3.37	
4,175.00	10.56	224.310	4,085.21	-571.97	-551.71	40.53	2.01	-1.90	3.35	
4,238.00	10.86	219.660	4,147.11	-580.67	-559.53	41.54	1.45	0.48	-7.38	
4,291.00	11.42	216.390	4,199.11	-588.73	-565.83	43.12	1.59	1.06	-6.17	
4,350.00	11.59	214.610	4,256.93	-598.31	-572.66	45.45	0.67	0.29	-3.02	
4,413.00	13.43	196.530	4,318.45	-610.54	-578.34	50.50	6.83	2.92	-28.70	
4,476.00	18.65	173.570	4,379.04	-627.59	-579.30	62.29	12.89	8.29	-36.44	
4,540.00	25.38	158.850	4,438.38	-650.60	-573.19	83.26	13.52	10.52	-23.00	
4,603.00	28.41	149.570	4,494.59	-676.13	-560.72	110.42	8.21	4.81	-14.73	
4,666.00	31.86	145.770	4,549.07	-702.81	-543.77	141.48	6.26	5.48	-6.03	
4,729.00	34.16	142.020	4,601.90	-730.51	-523.53	175.54	4.88	3.65	-5.95	
4,792.00	37.00	139.890	4,653.14	-758.95	-500.42	212.09	4.92	4.51	-3.38	
4,855.00	38.88	138.140	4,702.82	-788.18	-475.01	250.80	3.44	2.98	-2.78	
4,919.00	45.67	139.930	4,750.15	-820.70	-446.84	293.79	10.77	10.61	2.80	
4,981.00	51.07	139.010	4,791.32	-855.90	-416.73	340.07	8.78	8.71	-1.48	
5,045.00	53.56	141.230	4,830.45	-894.77	-384.27	390.62	4.76	3.89	3.47	
5,108.00	55.52	140.570	4,867.00	-934.59	-351.91	441.81	3.23	3.11	-1.05	
5,171.00	62.54	138.480	4,899.40	-975.62	-316.84	495.74	11.50	11.14	-3.32	
5,234.00	67.92	137.810	4,925.78	-1,018.21	-278.68	552.90	8.59	8.54	-1.06	
5,298.00	72.95	136.670	4,947.21	-1,062.47	-237.74	613.19	8.04	7.86	-1.78	
5,360.00	75.86	135.920	4,963.88	-1,105.63	-196.48	672.89	4.84	4.69	-1.21	
5,424.00	79.28	135.960	4,977.65	-1,150.54	-153.03	735.38	5.34	5.34	0.06	
5,505.00	83.41	134.760	4,989.84	-1,207.50	-96.77	815.41	5.30	5.10	-1.48	
5,563.00	84.82	134.040	4,995.78	-1,247.86	-55.55	873.04	2.73	2.43	-1.24	
5,625.00	88.46	133.770	4,999.42	-1,290.78	-10.97	934.84	5.89	5.87	-0.44	
5,688.00	90.13	132.790	5,000.19	-1,333.96	34.89	997.71	3.07	2.65	-1.56	
5,751.00	89.56	131.970	5,000.36	-1,376.42	81.43	1,060.51	1.59	-0.90	-1.30	
5,814.00	89.16	131.990	5,001.07	-1,418.56	128.26	1,123.28	0.64	-0.63	0.03	
5,876.00	88.32	131.970	5,002.43	-1,460.02	174.34	1,185.04	1.36	-1.35	-0.03	
5,940.00	89.19	131.970	5,003.82	-1,502.81	221.91	1,248.78	1.36	1.36	0.00	
6,002.00	88.93	132.220	5,004.84	-1,544.37	267.91	1,310.56	0.58	-0.42	0.40	
6,066.00	90.40	132.040	5,005.21	-1,587.30	315.37	1,374.34	2.31	2.30	-0.28	
6,129.00	90.24	131.830	5,004.86	-1,629.40	362.24	1,437.10	0.42	-0.25	-0.33	
6,192.00	90.57	132.640	5,004.41	-1,671.74	408.88	1,499.89	1.39	0.52	1.29	
6,254.00	90.03	132.600	5,004.09	-1,713.72	454.50	1,561.72	0.87	-0.87	-0.06	



Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 404H
Project:	North Alamito Unit	TVD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Site:	P36 2308	MD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Well:	NAU 404H	North Reference:	True
Wellbore:	Original drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original drilling	Database:	Grand Junction

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,317.00	91.28	131.640	5,003.37	-1,755.97	501.23	1,624.49	2.50	1.98	-1.52	
6,380.00	91.28	132.010	5,001.96	-1,797.98	548.16	1,687.23	0.59	0.00	0.59	
6,443.00	90.77	131.870	5,000.83	-1,840.07	595.02	1,749.98	0.84	-0.81	-0.22	
6,506.00	90.23	131.090	5,000.29	-1,881.80	642.21	1,812.70	1.51	-0.86	-1.24	
6,569.00	89.19	130.760	5,000.60	-1,923.07	689.81	1,875.36	1.73	-1.65	-0.52	
6,632.00	89.66	131.840	5,001.24	-1,964.65	737.14	1,938.05	1.87	0.75	1.71	
6,694.00	89.40	131.670	5,001.74	-2,005.93	783.39	1,999.80	0.50	-0.42	-0.27	
6,757.00	90.57	130.800	5,001.76	-2,047.46	830.77	2,062.49	2.31	1.86	-1.38	
6,819.00	90.50	130.880	5,001.18	-2,088.00	877.67	2,124.15	0.17	-0.11	0.13	
6,882.00	90.03	130.490	5,000.89	-2,129.07	925.44	2,186.78	0.97	-0.75	-0.62	
6,945.00	88.79	129.990	5,001.54	-2,169.77	973.53	2,249.35	2.12	-1.97	-0.79	
7,008.00	90.03	130.950	5,002.19	-2,210.65	1,021.45	2,311.95	2.49	1.97	1.52	
7,071.00	89.97	130.570	5,002.19	-2,251.78	1,069.17	2,374.59	0.61	-0.10	-0.60	
7,134.00	89.70	130.730	5,002.37	-2,292.82	1,116.97	2,437.21	0.50	-0.43	0.25	
7,197.00	89.16	130.160	5,003.00	-2,333.69	1,164.91	2,499.81	1.25	-0.86	-0.90	
7,260.00	88.52	129.300	5,004.27	-2,373.95	1,213.35	2,562.30	1.70	-1.02	-1.37	
7,323.00	89.70	130.750	5,005.25	-2,414.46	1,261.59	2,624.84	2.97	1.87	2.30	
7,386.00	91.41	132.750	5,004.64	-2,456.41	1,308.58	2,687.58	4.18	2.71	3.17	
7,449.00	91.38	132.570	5,003.11	-2,499.08	1,354.90	2,750.39	0.29	-0.05	-0.29	
7,512.00	90.13	131.180	5,002.28	-2,541.13	1,401.80	2,813.14	2.97	-1.98	-2.21	
7,574.00	90.87	132.150	5,001.74	-2,582.35	1,448.12	2,874.88	1.97	1.19	1.56	
7,637.00	90.07	130.740	5,001.22	-2,624.04	1,495.34	2,937.59	2.57	-1.27	-2.24	
7,700.00	91.11	131.750	5,000.57	-2,665.57	1,542.70	3,000.28	2.30	1.65	1.60	
7,762.00	90.94	131.100	4,999.46	-2,706.59	1,589.18	3,061.99	1.08	-0.27	-1.05	
7,825.00	90.27	130.770	4,998.80	-2,747.86	1,636.77	3,124.64	1.19	-1.06	-0.52	
7,888.00	90.91	131.850	4,998.15	-2,789.45	1,684.09	3,187.34	1.99	1.02	1.71	
7,950.00	90.97	131.800	4,997.13	-2,830.79	1,730.29	3,249.09	0.13	0.10	-0.08	
8,013.00	90.77	131.120	4,996.17	-2,872.50	1,777.50	3,311.80	1.12	-0.32	-1.08	
8,076.00	90.37	130.410	4,995.55	-2,913.63	1,825.21	3,374.44	1.29	-0.63	-1.13	
8,139.00	89.56	132.300	4,995.58	-2,955.25	1,872.50	3,437.14	3.26	-1.29	3.00	
8,201.00	89.43	132.300	4,996.13	-2,996.98	1,918.35	3,498.94	0.21	-0.21	0.00	
8,264.00	89.06	131.470	4,996.96	-3,039.03	1,965.25	3,561.69	1.44	-0.59	-1.32	
8,327.00	88.76	131.130	4,998.16	-3,080.61	2,012.57	3,624.38	0.72	-0.48	-0.54	
8,390.00	89.97	131.300	4,998.86	-3,122.11	2,059.96	3,687.07	1.94	1.92	0.27	
8,453.00	89.80	129.930	4,998.98	-3,163.12	2,107.78	3,749.69	2.19	-0.27	-2.17	
8,516.00	89.97	129.730	4,999.11	-3,203.48	2,156.16	3,812.21	0.42	0.27	-0.32	
8,578.00	90.70	130.720	4,998.75	-3,243.51	2,203.50	3,873.79	1.98	1.18	1.60	
8,641.00	90.87	131.100	4,997.89	-3,284.77	2,251.10	3,936.44	0.66	0.27	0.60	
8,704.00	90.84	130.280	4,996.95	-3,325.84	2,298.87	3,999.06	1.30	-0.05	-1.30	
8,767.00	91.58	131.620	4,995.61	-3,367.12	2,346.44	4,061.71	2.43	1.17	2.13	
8,830.00	90.44	131.810	4,994.50	-3,409.03	2,393.46	4,124.44	1.83	-1.81	0.30	
8,893.00	89.02	129.980	4,994.80	-3,450.27	2,441.08	4,187.09	3.68	-2.25	-2.90	
8,956.00	90.10	131.180	4,995.29	-3,491.25	2,488.92	4,249.71	2.56	1.71	1.90	
9,019.00	90.10	132.280	4,995.18	-3,533.18	2,535.94	4,312.45	1.75	0.00	1.75	



Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 404H
Project:	North Alamito Unit	TVD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Site:	P36 2308	MD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Well:	NAU 404H	North Reference:	True
Wellbore:	Original drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original drilling	Database:	Grand Junction

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,082.00	90.50	133.320	4,994.85	-3,575.99	2,582.16	4,375.29	1.77	0.63	1.65
9,144.00	90.07	133.530	4,994.54	-3,618.61	2,627.19	4,437.17	0.77	-0.69	0.34
9,207.00	89.53	132.330	4,994.76	-3,661.51	2,673.32	4,500.02	2.09	-0.86	-1.90
9,270.00	89.60	132.100	4,995.23	-3,703.84	2,719.97	4,562.81	0.38	0.11	-0.37
9,332.00	90.24	131.700	4,995.32	-3,745.25	2,766.12	4,624.57	1.22	1.03	-0.65
9,395.00	89.87	131.660	4,995.26	-3,787.14	2,813.17	4,687.31	0.59	-0.59	-0.06
9,457.00	89.56	130.770	4,995.57	-3,827.99	2,859.81	4,749.01	1.52	-0.50	-1.44
9,520.00	90.54	132.310	4,995.51	-3,869.77	2,906.96	4,811.73	2.90	1.56	2.44
9,583.00	90.84	133.010	4,994.76	-3,912.46	2,953.29	4,874.55	1.21	0.48	1.11
9,645.00	90.44	132.080	4,994.06	-3,954.38	2,998.97	4,936.37	1.63	-0.65	-1.50
9,708.00	90.71	131.930	4,993.43	-3,996.53	3,045.78	4,999.14	0.49	0.43	-0.24
9,771.00	91.61	131.390	4,992.16	-4,038.40	3,092.83	5,061.86	1.67	1.43	-0.86
9,834.00	90.87	133.120	4,990.79	-4,080.75	3,139.45	5,124.64	2.99	-1.17	2.75
9,896.00	90.78	133.050	4,989.90	-4,123.10	3,184.73	5,186.50	0.18	-0.15	-0.11
9,959.00	88.38	132.050	4,990.36	-4,165.70	3,231.13	5,249.31	4.13	-3.81	-1.59
10,022.00	87.85	131.690	4,992.43	-4,207.72	3,278.02	5,312.03	1.02	-0.84	-0.57
10,085.00	89.43	133.300	4,993.93	-4,250.27	3,324.46	5,374.82	3.58	2.51	2.56
10,148.00	88.89	132.050	4,994.85	-4,292.96	3,370.77	5,437.65	2.16	-0.86	-1.98
10,210.00	89.33	133.160	4,995.82	-4,334.93	3,416.40	5,499.46	1.93	0.71	1.79
10,270.00	89.36	132.460	4,996.50	-4,375.70	3,460.41	5,559.31	1.17	0.05	-1.17
10,330.00	90.50	132.750	4,996.57	-4,416.32	3,504.57	5,619.14	1.96	1.90	0.48
10,391.00	90.57	132.390	4,996.01	-4,457.58	3,549.49	5,679.96	0.60	0.11	-0.59
10,452.00	89.56	131.420	4,995.94	-4,498.32	3,594.89	5,740.73	2.30	-1.66	-1.59
10,513.00	90.70	131.120	4,995.80	-4,538.56	3,640.74	5,801.44	1.93	1.87	-0.49
10,573.00	91.18	131.030	4,994.81	-4,577.97	3,685.96	5,861.12	0.81	0.80	-0.15
10,634.00	91.24	130.660	4,993.53	-4,617.86	3,732.10	5,921.77	0.61	0.10	-0.61
10,695.00	89.16	130.010	4,993.31	-4,657.34	3,778.60	5,982.36	3.57	-3.41	-1.07
10,756.00	88.05	128.190	4,994.80	-4,695.80	3,825.92	6,042.78	3.49	-1.82	-2.98
10,817.00	87.54	127.510	4,997.14	-4,733.20	3,874.05	6,102.97	1.39	-0.84	-1.11
10,878.00	88.12	129.100	4,999.45	-4,770.98	3,921.88	6,163.25	2.77	0.95	2.61
10,939.00	90.07	131.640	5,000.42	-4,810.48	3,968.34	6,223.84	5.25	3.20	4.16
10,999.00	89.70	131.900	5,000.54	-4,850.45	4,013.09	6,283.60	0.75	-0.62	0.43
11,060.00	87.95	129.610	5,001.79	-4,890.26	4,059.28	6,344.23	4.72	-2.87	-3.75
11,120.00	87.21	127.960	5,004.32	-4,927.81	4,106.01	6,403.57	3.01	-1.23	-2.75
11,181.00	88.52	132.740	5,006.60	-4,967.27	4,152.45	6,464.11	8.12	2.15	7.84
11,242.00	90.07	133.740	5,007.35	-5,009.05	4,196.88	6,524.98	3.02	2.54	1.64
11,302.00	91.34	135.710	5,006.61	-5,051.27	4,239.51	6,584.93	3.91	2.12	3.28
11,362.00	91.31	136.080	5,005.22	-5,094.34	4,281.26	6,644.91	0.62	-0.05	0.62
11,423.00	90.97	135.520	5,004.01	-5,138.06	4,323.77	6,705.88	1.07	-0.56	-0.92
11,483.00	90.81	134.690	5,003.08	-5,180.56	4,366.12	6,765.85	1.41	-0.27	-1.38
11,544.00	89.33	134.170	5,003.00	-5,223.26	4,409.68	6,826.79	2.57	-2.43	-0.85
11,606.00	89.09	132.840	5,003.86	-5,265.94	4,454.64	6,888.67	2.18	-0.39	-2.15
11,666.00	89.09	132.850	5,004.81	-5,306.73	4,498.63	6,948.52	0.02	0.00	0.02



Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 404H
Project:	North Alamito Unit	TVD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Site:	P36 2308	MD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Well:	NAU 404H	North Reference:	True
Wellbore:	Original drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original drilling	Database:	Grand Junction

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,727.00	89.06	132.880	5,005.79	-5,348.22	4,543.33	7,009.36	0.07	-0.05	0.05
11,788.00	88.76	132.170	5,006.95	-5,389.45	4,588.28	7,070.17	1.26	-0.49	-1.16
11,849.00	88.89	132.380	5,008.21	-5,430.47	4,633.40	7,130.96	0.40	0.21	0.34
11,910.00	88.42	131.690	5,009.64	-5,471.31	4,678.70	7,191.72	1.37	-0.77	-1.13
11,971.00	90.47	130.460	5,010.23	-5,511.38	4,724.68	7,252.40	3.92	3.36	-2.02
12,032.00	91.51	131.050	5,009.17	-5,551.20	4,770.88	7,313.04	1.96	1.70	0.97
12,092.00	91.21	130.150	5,007.75	-5,590.23	4,816.42	7,372.66	1.58	-0.50	-1.50
12,153.00	91.04	130.450	5,006.55	-5,629.68	4,862.93	7,433.25	0.57	-0.28	0.49
12,213.00	91.38	130.550	5,005.29	-5,668.64	4,908.55	7,492.86	0.59	0.57	0.17
12,274.00	91.24	130.730	5,003.89	-5,708.35	4,954.82	7,553.48	0.37	-0.23	0.30
12,334.00	90.50	130.100	5,002.98	-5,747.25	5,000.50	7,613.09	1.62	-1.23	-1.05
12,395.00	90.24	129.600	5,002.59	-5,786.34	5,047.33	7,673.63	0.92	-0.43	-0.82
12,456.00	90.20	128.940	5,002.35	-5,824.95	5,094.55	7,734.09	1.08	-0.07	-1.08
12,517.00	89.93	129.190	5,002.28	-5,863.39	5,141.92	7,794.52	0.60	-0.44	0.41
12,578.00	89.36	128.430	5,002.66	-5,901.62	5,189.45	7,854.91	1.56	-0.93	-1.25
12,639.00	89.36	127.440	5,003.34	-5,939.12	5,237.56	7,915.17	1.62	0.00	-1.62
12,699.00	89.87	128.500	5,003.74	-5,976.03	5,284.85	7,974.44	1.96	0.85	1.77
12,761.00	90.64	128.160	5,003.47	-6,014.48	5,333.49	8,035.75	1.36	1.24	-0.55
12,821.00	90.80	130.480	5,002.71	-6,052.49	5,379.90	8,095.21	3.88	0.27	3.87
12,881.00	90.40	131.750	5,002.09	-6,091.95	5,425.10	8,154.91	2.22	-0.67	2.12
12,941.00	89.93	131.950	5,001.91	-6,131.98	5,469.79	8,214.67	0.85	-0.78	0.33
13,002.00	90.17	131.790	5,001.86	-6,172.69	5,515.22	8,275.44	0.47	0.39	-0.26
13,062.00	90.07	131.730	5,001.73	-6,212.65	5,559.97	8,335.20	0.19	-0.17	-0.10
13,123.00	90.47	131.650	5,001.45	-6,253.22	5,605.52	8,395.95	0.67	0.66	-0.13
13,183.00	90.40	131.190	5,000.99	-6,292.91	5,650.52	8,455.67	0.78	-0.12	-0.77
13,245.00	90.47	132.270	5,000.52	-6,334.18	5,696.78	8,517.42	1.75	0.11	1.74
13,305.00	90.40	133.170	5,000.07	-6,374.88	5,740.86	8,577.26	1.50	-0.12	1.50
13,366.00	90.13	132.430	4,999.78	-6,416.33	5,785.62	8,638.10	1.29	-0.44	-1.21
13,426.00	90.44	131.510	4,999.48	-6,456.45	5,830.23	8,697.88	1.62	0.52	-1.53
13,487.00	90.30	131.620	4,999.09	-6,496.92	5,875.87	8,758.61	0.29	-0.23	0.18
13,548.00	90.44	131.690	4,998.70	-6,537.47	5,921.44	8,819.36	0.26	0.23	0.11
13,609.00	90.50	131.040	4,998.20	-6,577.78	5,967.22	8,880.07	1.07	0.10	-1.07
13,670.00	90.54	131.390	4,997.64	-6,617.97	6,013.11	8,940.77	0.58	0.07	0.57
13,729.00	90.40	131.190	4,997.16	-6,656.90	6,057.44	8,999.48	0.41	-0.24	-0.34
13,790.00	90.54	130.050	4,996.66	-6,696.61	6,103.74	9,060.12	1.88	0.23	-1.87
13,851.00	90.50	130.390	4,996.11	-6,736.00	6,150.31	9,120.70	0.56	-0.07	0.56
13,912.00	90.37	129.120	4,995.64	-6,775.01	6,197.21	9,181.23	2.09	-0.21	-2.08
13,973.00	90.23	131.330	4,995.32	-6,814.40	6,243.78	9,241.81	3.63	-0.23	3.62
14,034.00	90.37	131.880	4,995.00	-6,854.90	6,289.39	9,302.55	0.93	0.23	0.90
14,095.00	90.54	131.850	4,994.52	-6,895.61	6,334.82	9,363.31	0.28	0.28	-0.05
14,156.00	90.54	131.710	4,993.94	-6,936.25	6,380.30	9,424.07	0.23	0.00	-0.23
14,218.00	90.94	131.110	4,993.14	-6,977.25	6,426.80	9,485.78	1.16	0.65	-0.97
14,279.00	91.21	130.470	4,992.00	-7,017.10	6,472.97	9,546.42	1.14	0.44	-1.05



Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 404H
Project:	North Alamito Unit	TVD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Site:	P36 2308	MD Reference:	GL 6948' & RKB 14' @ 6962.00usft (Aztec 920)
Well:	NAU 404H	North Reference:	True
Wellbore:	Original drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original drilling	Database:	Grand Junction

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,339.00	91.38	130.470	4,990.64	-7,056.03	6,518.61	9,606.03	0.28	0.28	0.00	
14,399.00	91.51	130.470	4,989.13	-7,094.96	6,564.24	9,665.63	0.22	0.22	0.00	
14,460.00	91.01	132.090	4,987.79	-7,135.19	6,610.06	9,726.32	2.78	-0.82	2.66	
14,520.00	91.21	132.750	4,986.63	-7,175.66	6,654.35	9,786.13	1.15	0.33	1.10	
14,581.00	90.40	132.160	4,985.77	-7,216.83	6,699.35	9,846.94	1.64	-1.33	-0.97	
14,642.00	90.27	131.090	4,985.41	-7,257.35	6,744.95	9,907.68	1.77	-0.21	-1.75	
14,704.00	90.30	131.390	4,985.10	-7,298.22	6,791.57	9,969.38	0.49	0.05	0.48	
14,765.00	91.48	131.690	4,984.16	-7,338.67	6,837.22	10,030.11	2.00	1.93	0.49	
14,827.00	91.24	131.740	4,982.68	-7,379.91	6,883.49	10,091.83	0.40	-0.39	0.08	
14,888.00	90.77	130.990	4,981.61	-7,420.22	6,929.26	10,152.54	1.45	-0.77	-1.23	
14,948.00	90.81	130.190	4,980.79	-7,459.25	6,974.82	10,212.17	1.33	0.07	-1.33	
14,997.00	90.74	130.790	4,980.12	-7,491.06	7,012.08	10,260.86	1.23	-0.14	1.22	
15,049.00	90.74	130.790	4,979.45	-7,525.03	7,051.45	10,312.56	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
441.00	440.95	-1.90	-5.16	First SDI Surface MWD Survey	
4,291.00	4,199.11	-588.73	-565.83	Last SDI Surface MWD Survey	
4,350.00	4,256.93	-598.31	-572.66	First SDI Curve MWD Survey	
5,424.00	4,977.65	-1,150.54	-153.03	Last SDI Curve MWD Survey	
5,505.00	4,989.84	-1,207.50	-96.77	First SDI Lateral MWD Survey	
14,997.00	4,980.12	-7,491.06	7,012.08	Last SDI Lateral MWD Survey	
15,049.00	4,979.45	-7,525.03	7,051.45	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____

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

COMMENTS

Action 23572

COMMENTS

Operator:	DJR OPERATING, LLC	1 Road 3263	Aztec, NM87410	OGRID:	371838	Action Number:	23572	Action Type:	C-104C
Created By	Comment						Comment Date		
ahvermersch	Admin review completed; needs Geo review						04/21/2021		
kpickford	KP GEO Review 4/21/2021						04/21/2021		

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CONDITIONS

Action 23572

CONDITIONS OF APPROVAL

Operator:	DJR OPERATING, LLC	1 Road 3263	Aztec, NM87410	OGRID:	371838	Action Number:	23572	Action Type:	C-104C
OCD Reviewer									Condition
ahvermersch									None