

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

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address DJR Operating, LLC 1 Road 3263 Aztec, NM 87410		² OGRID Number 371838	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-043-21214	⁵ Pool Name Alamito N; Mancos (Oil)		⁶ Pool Code 98174
⁷ Property Code 325267	⁸ Property Name North Alamito Unit		⁹ Well Number 333H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
J	31	23N	7W		2215	South	2531	East	Sandoval

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	5	22N	7W		2316	North	2432	East	Sandoval
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date ~12/23/2020	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

IV. Well Completion Data

²¹ Spud Date 02/05/2020	²² Ready Date 12/13/2020	²³ TD 11,798' MD 5,107' TVD	²⁴ PBD 11,779' MD 5,107' TVD	²⁵ Perforations 5,570'-11,725' MD 5,096'-5,121' TVD Frac Sleeve @ 11,754'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12.25	9.625" 36# J55	369'	109		
8.75	7" 26# J55	5,465'	Lead: 384 Tail: 232		
6.125	4.5" 11.6# P110	TOL: 5,141' BOL: 11,793'	564		

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:

Shaw-Marie Ford

Printed name:

Shaw-Marie Ford

Title:

Regulatory Specialist

E-mail Address:

sford@djrlc.com

Date:

12/14/2020

Phone:

505-716-3297

OIL CONSERVATION DIVISION

Approved by:

Amy Kunsch

Title:

Data Compliance Manager

Approval Date:

12/11/2020

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

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

☐ **AMENDED REPORT**
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21214	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 333H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6979'

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
J	31	23N	7W		2215'	SOUTH	2531'	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	5	22N	7W		2316'	NORTH	2432'	EAST	SANDOVAL

12 Dedicated Acres PENETRATED SPACING UNIT;
SEC 31: SE/4 (160 AC.); SEC 32: SW/SW (40 AC.); SEC 6: NE/NE (40.21 AC.) SEC 5: SW/NE, NW/4 (200.68 AC.) = 440.89 ACRES TOTAL

13 Joint or Infill

¹⁴ Consolidation Code

15 Order No.	
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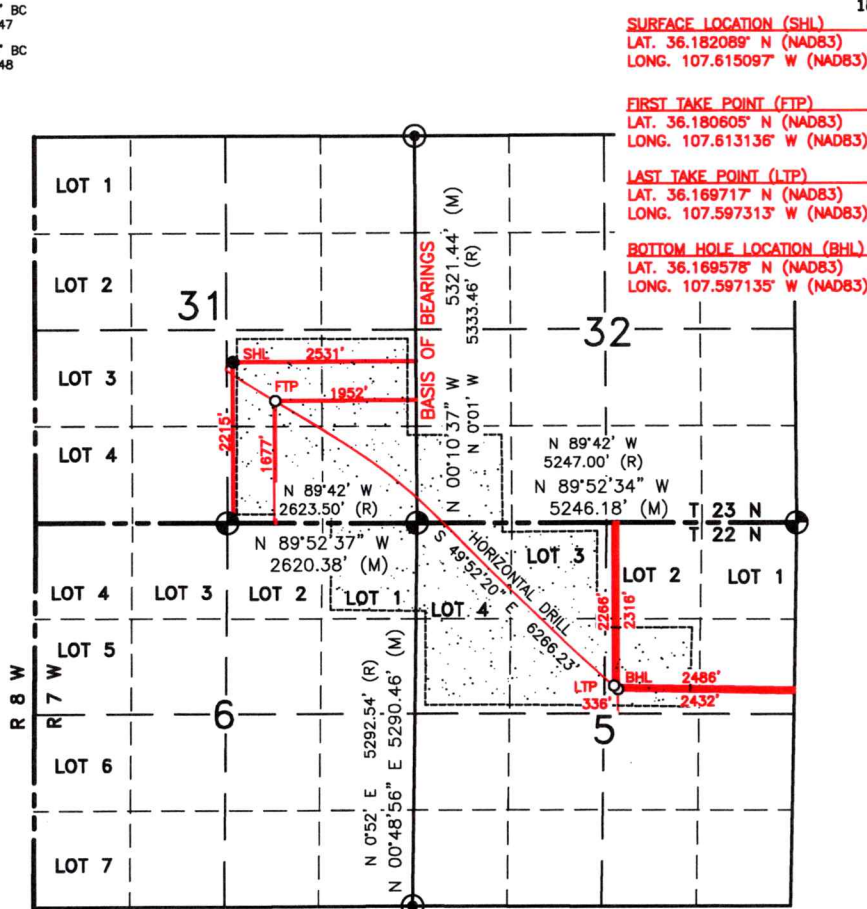
R-14081 R-14081A

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

16

 FND 2 1/2" BC
GLO 1947

 FND 2 1/2" BC
GLO 1948



18	17	OPERATOR CERTIFICATION
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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 12/04/20
Signature Date

Shaw-Marie Ford
Printed Name

sford@djrlc.com
E-mail Address

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.

DECEMBER 3, 2020

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number 11393



Scientific Drilling

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 J31 2307 333H
County & State	San Juan, NM
SDI Job No.	OP.023805
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 439 feet to a measured depth of 11,798 feet is true and correct as determined from all available records.


Signature

17-Mar-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 333H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Site:	J31 2307	MD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Well:	NAU 333H	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	J31 2307				
Site Position:		Northing:	1,885,649.91 usft	Latitude:	36.1820890
From:	Lat/Long	Easting:	2,787,494.55 usft	Longitude:	-107.6150970
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.13 °

Well	NAU 333H - Slot 1				
Well Position	+N/-S	0.00 usft	Northing:	1,885,649.90 usft	Latitude: 36.1820890
	+E/-W	0.00 usft	Easting:	2,787,494.55 usft	Longitude: -107.6150970
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 6,979.00 usft

Wellbore	Original drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	1/17/2020	8.72	62.75	49,311.40000000

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	130.546	

Survey Program	Date	3/17/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
439.00	4,235.00	Survey #1 - Surface MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
4,297.00	5,418.00	Survey #2 - Curve MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
5,502.00	11,798.00	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	
439.00	0.36	173.990	439.00	-1.37	0.14	1.00	0.08	0.08	0.00	
501.00	0.64	204.750	500.99	-1.88	0.02	1.24	0.61	0.45	49.61	
562.00	1.25	221.410	561.99	-2.69	-0.56	1.32	1.09	1.00	27.31	
623.00	1.92	227.800	622.96	-3.87	-1.76	1.18	1.13	1.10	10.48	
683.00	2.39	229.190	682.92	-5.37	-3.45	0.87	0.79	0.78	2.32	
744.00	2.69	228.770	743.86	-7.14	-5.49	0.47	0.49	0.49	-0.69	
805.00	2.82	230.530	804.79	-9.04	-7.73	0.00	0.25	0.21	2.89	
865.00	2.83	232.990	864.72	-10.87	-10.05	-0.57	0.20	0.02	4.10	



Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 333H - Slot 1
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Site:	J31 2307	MD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Well:	NAU 333H	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	3.02	233.640	925.64	-12.73	-12.54	-1.26	0.32	0.31	1.07
986.00	3.20	236.300	985.55	-14.59	-15.21	-2.07	0.38	0.30	4.43
1,046.00	3.48	238.390	1,045.45	-16.48	-18.15	-3.08	0.51	0.47	3.48
1,107.00	3.79	241.150	1,106.32	-18.42	-21.50	-4.36	0.58	0.51	4.52
1,167.00	3.96	246.010	1,166.19	-20.22	-25.13	-5.95	0.62	0.28	8.10
1,228.00	3.38	237.240	1,227.06	-22.05	-28.56	-7.37	1.32	-0.95	-14.38
1,289.00	2.56	229.650	1,287.98	-23.90	-31.11	-8.10	1.49	-1.34	-12.44
1,350.00	1.64	216.480	1,348.94	-25.49	-32.67	-8.26	1.69	-1.51	-21.59
1,411.00	1.27	202.580	1,409.92	-26.81	-33.45	-7.99	0.83	-0.61	-22.79
1,472.00	1.09	191.270	1,470.91	-28.01	-33.82	-7.49	0.48	-0.30	-18.54
1,532.00	1.22	180.470	1,530.89	-29.21	-33.94	-6.80	0.42	0.22	-18.00
1,593.00	1.30	178.260	1,591.88	-30.55	-33.92	-5.92	0.15	0.13	-3.62
1,655.00	1.15	179.350	1,653.87	-31.87	-33.90	-5.04	0.24	-0.24	1.76
1,715.00	1.11	173.830	1,713.85	-33.05	-33.83	-4.22	0.19	-0.07	-9.20
1,776.00	1.88	243.880	1,774.84	-34.08	-34.66	-4.18	3.00	1.26	114.84
1,837.00	1.92	250.420	1,835.80	-34.86	-36.52	-5.09	0.36	0.07	10.72
1,898.00	2.16	255.880	1,896.76	-35.49	-38.60	-6.26	0.51	0.39	8.95
1,961.00	2.29	252.640	1,959.72	-36.15	-40.95	-7.62	0.29	0.21	-5.14
2,024.00	2.38	249.960	2,022.66	-36.97	-43.38	-8.93	0.22	0.14	-4.25
2,087.00	2.28	238.880	2,085.61	-38.07	-45.68	-9.97	0.73	-0.16	-17.59
2,150.00	2.40	238.730	2,148.56	-39.40	-47.88	-10.77	0.19	0.19	-0.24
2,213.00	2.27	237.310	2,211.51	-40.76	-50.06	-11.54	0.23	-0.21	-2.25
2,277.00	2.53	239.260	2,275.45	-42.17	-52.34	-12.36	0.43	0.41	3.05
2,340.00	2.66	240.310	2,338.39	-43.60	-54.81	-13.30	0.22	0.21	1.67
2,403.00	2.54	233.070	2,401.32	-45.17	-57.19	-14.10	0.55	-0.19	-11.49
2,466.00	2.79	225.330	2,464.25	-47.08	-59.40	-14.53	0.69	0.40	-12.29
2,530.00	3.04	219.260	2,528.17	-49.49	-61.58	-14.62	0.62	0.39	-9.48
2,593.00	2.35	210.720	2,591.10	-51.90	-63.30	-14.36	1.26	-1.10	-13.56
2,656.00	2.11	200.470	2,654.05	-54.09	-64.36	-13.75	0.74	-0.38	-16.27
2,719.00	2.21	196.110	2,717.01	-56.35	-65.11	-12.85	0.31	0.16	-6.92
2,782.00	2.66	197.790	2,779.95	-58.90	-65.89	-11.78	0.72	0.71	2.67
2,845.00	2.19	187.060	2,842.90	-61.49	-66.49	-10.55	1.03	-0.75	-17.03
2,909.00	1.98	175.430	2,906.85	-63.81	-66.55	-9.09	0.74	-0.33	-18.17
2,972.00	2.02	169.390	2,969.82	-65.98	-66.26	-7.45	0.34	0.06	-9.59
3,035.00	1.62	183.200	3,032.78	-67.96	-66.10	-6.05	0.94	-0.63	21.92
3,098.00	1.44	203.140	3,095.76	-69.58	-66.46	-5.27	0.89	-0.29	31.65
3,161.00	1.24	230.620	3,158.75	-70.74	-67.30	-5.15	1.06	-0.32	43.62
3,224.00	1.22	233.410	3,221.73	-71.57	-68.37	-5.42	0.10	-0.03	4.43
3,287.00	1.49	220.070	3,284.71	-72.60	-69.43	-5.57	0.66	0.43	-21.17
3,351.00	1.68	215.600	3,348.69	-74.00	-70.51	-5.48	0.35	0.30	-6.98
3,414.00	1.58	219.130	3,411.66	-75.42	-71.60	-5.38	0.22	-0.16	5.60
3,477.00	1.66	212.440	3,474.64	-76.87	-72.64	-5.23	0.33	0.13	-10.62
3,541.00	1.54	210.610	3,538.61	-78.39	-73.57	-4.95	0.20	-0.19	-2.86



Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 333H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Site:	J31 2307	MD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Well:	NAU 333H	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)
3,604.00	1.40	197.340	3,601.59	-79.85	-74.23	-4.50	0.58	-0.22	-21.06
3,667.00	1.07	203.770	3,664.58	-81.13	-74.70	-4.03	0.57	-0.52	10.21
3,730.00	1.64	218.160	3,727.56	-82.37	-75.49	-3.82	1.05	0.90	22.84
3,793.00	2.07	218.480	3,790.53	-83.97	-76.76	-3.74	0.68	0.68	0.51
3,856.00	2.21	217.090	3,853.48	-85.83	-78.20	-3.63	0.24	0.22	-2.21
3,919.00	2.43	218.460	3,916.43	-87.85	-79.76	-3.50	0.36	0.35	2.17
3,983.00	2.63	220.820	3,980.37	-90.02	-81.57	-3.46	0.35	0.31	3.69
4,046.00	2.55	218.360	4,043.31	-92.21	-83.38	-3.41	0.22	-0.13	-3.90
4,109.00	2.53	220.540	4,106.24	-94.37	-85.15	-3.36	0.16	-0.03	3.46
4,172.00	2.52	222.070	4,169.18	-96.45	-86.99	-3.40	0.11	-0.02	2.43
4,235.00	2.43	224.170	4,232.12	-98.44	-88.84	-3.52	0.20	-0.14	3.33
4,297.00	2.56	223.890	4,294.06	-100.38	-90.72	-3.68	0.21	0.21	-0.45
4,345.00	2.66	224.030	4,342.01	-101.95	-92.24	-3.81	0.21	0.21	0.29
4,408.00	3.16	169.020	4,404.94	-104.71	-92.92	-2.54	4.32	0.79	-87.32
4,472.00	8.70	125.530	4,468.60	-109.26	-88.64	3.67	10.57	8.66	-67.95
4,534.00	15.10	117.570	4,529.24	-115.73	-77.66	16.22	10.63	10.32	-12.84
4,597.00	20.41	122.390	4,589.22	-125.42	-61.09	35.11	8.74	8.43	7.65
4,661.00	25.43	124.710	4,648.15	-139.23	-40.36	59.84	7.97	7.84	3.63
4,724.00	30.11	125.320	4,703.88	-156.08	-16.33	89.05	7.44	7.43	0.97
4,787.00	35.18	125.260	4,756.91	-175.71	11.40	122.88	8.05	8.05	-0.10
4,850.00	39.67	127.900	4,806.93	-198.55	42.10	161.06	7.57	7.13	4.19
4,913.00	44.98	124.990	4,853.50	-223.69	76.24	203.34	8.98	8.43	-4.62
4,976.00	51.59	122.220	4,895.40	-249.65	115.41	249.98	10.99	10.49	-4.40
5,040.00	54.30	121.550	4,933.96	-276.62	158.78	300.47	4.32	4.23	-1.05
5,103.00	56.57	122.000	4,969.70	-303.94	202.88	351.74	3.65	3.60	0.71
5,166.00	61.57	121.600	5,002.08	-332.40	248.79	405.14	7.96	7.94	-0.63
5,229.00	67.28	121.680	5,029.26	-362.20	297.15	461.26	9.06	9.06	0.13
5,292.00	71.46	123.140	5,051.45	-393.80	346.91	519.61	6.98	6.63	2.32
5,355.00	75.44	123.090	5,069.40	-426.79	397.48	579.48	6.32	6.32	-0.08
5,418.00	81.12	121.720	5,082.19	-459.83	449.54	640.52	9.26	9.02	-2.17
5,502.00	85.60	121.120	5,091.90	-503.31	520.73	722.87	5.38	5.33	-0.71
5,565.00	87.18	120.590	5,095.87	-535.56	574.70	784.85	2.64	2.51	-0.84
5,629.00	87.62	121.050	5,098.77	-568.31	629.61	847.87	0.99	0.69	0.72
5,692.00	87.15	120.380	5,101.64	-600.46	683.71	909.88	1.30	-0.75	-1.06
5,754.00	89.26	120.080	5,103.59	-631.65	737.25	970.84	3.44	3.40	-0.48
5,818.00	90.07	120.210	5,103.96	-663.79	792.60	1,033.79	1.28	1.27	0.20
5,880.00	89.77	121.600	5,104.05	-695.64	845.79	1,094.91	2.29	-0.48	2.24
5,943.00	90.07	121.630	5,104.13	-728.66	899.44	1,157.14	0.48	0.48	0.05
6,006.00	89.56	122.330	5,104.34	-762.03	952.88	1,219.44	1.37	-0.81	1.11
6,069.00	89.93	122.600	5,104.62	-795.84	1,006.03	1,281.81	0.73	0.59	0.43
6,131.00	90.44	122.540	5,104.42	-829.22	1,058.28	1,343.21	0.83	0.82	-0.10
6,194.00	89.50	122.830	5,104.45	-863.24	1,111.31	1,405.62	1.56	-1.49	0.46
6,256.00	89.97	122.980	5,104.74	-896.92	1,163.36	1,467.07	0.80	0.76	0.24



Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 333H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Site:	J31 2307	MD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Well:	NAU 333H	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)
6,319.00	89.40	122.570	5,105.08	-931.03	1,216.33	1,529.49	1.11	-0.90	-0.65
6,382.00	89.73	123.140	5,105.56	-965.20	1,269.25	1,591.92	1.05	0.52	0.90
6,445.00	89.29	122.740	5,106.10	-999.46	1,322.12	1,654.36	0.94	-0.70	-0.63
6,508.00	89.30	122.750	5,106.88	-1,033.53	1,375.10	1,716.78	0.02	0.02	0.02
6,569.00	89.63	123.050	5,107.45	-1,066.67	1,426.32	1,777.23	0.73	0.54	0.49
6,631.00	88.89	122.600	5,108.25	-1,100.27	1,478.41	1,838.66	1.40	-1.19	-0.73
6,694.00	89.20	122.290	5,109.30	-1,134.07	1,531.57	1,901.03	0.70	0.49	-0.49
6,757.00	90.27	122.170	5,109.59	-1,167.66	1,584.86	1,963.36	1.71	1.70	-0.19
6,820.00	90.13	122.250	5,109.37	-1,201.24	1,638.17	2,025.70	0.26	-0.22	0.13
6,883.00	89.53	122.470	5,109.56	-1,234.96	1,691.38	2,088.05	1.01	-0.95	0.35
6,946.00	89.97	122.880	5,109.83	-1,268.97	1,744.41	2,150.46	0.95	0.70	0.65
7,006.00	89.03	122.720	5,110.35	-1,301.48	1,794.84	2,209.91	1.59	-1.57	-0.27
7,067.00	89.97	122.990	5,110.89	-1,334.57	1,846.08	2,270.36	1.60	1.54	0.44
7,128.00	89.50	122.690	5,111.17	-1,367.65	1,897.34	2,330.81	0.91	-0.77	-0.49
7,190.00	90.20	122.410	5,111.33	-1,401.00	1,949.60	2,392.20	1.22	1.13	-0.45
7,250.00	90.40	121.960	5,111.02	-1,432.96	2,000.38	2,451.56	0.82	0.33	-0.75
7,311.00	88.86	122.990	5,111.41	-1,465.71	2,051.83	2,511.96	3.04	-2.52	1.69
7,372.00	89.30	124.580	5,112.39	-1,499.63	2,102.52	2,572.52	2.70	0.72	2.61
7,433.00	90.37	126.060	5,112.57	-1,534.89	2,152.29	2,633.27	2.99	1.75	2.43
7,492.00	89.63	126.640	5,112.57	-1,569.86	2,199.81	2,692.11	1.59	-1.25	0.98
7,553.00	88.42	127.670	5,113.60	-1,606.70	2,248.42	2,752.99	2.60	-1.98	1.69
7,613.00	89.63	130.290	5,114.62	-1,644.43	2,295.05	2,812.95	4.81	2.02	4.37
7,674.00	90.43	130.380	5,114.59	-1,683.92	2,341.55	2,873.95	1.32	1.31	0.15
7,735.00	89.63	130.970	5,114.56	-1,723.67	2,387.81	2,934.95	1.63	-1.31	0.97
7,795.00	88.99	132.210	5,115.28	-1,763.50	2,432.68	2,994.93	2.33	-1.07	2.07
7,857.00	89.90	134.380	5,115.88	-1,806.01	2,477.80	3,056.86	3.80	1.47	3.50
7,917.00	90.54	134.330	5,115.65	-1,847.95	2,520.70	3,116.72	1.07	1.07	-0.08
7,978.00	90.03	133.600	5,115.35	-1,890.30	2,564.61	3,177.61	1.46	-0.84	-1.20
8,039.00	89.67	133.900	5,115.51	-1,932.48	2,608.67	3,238.52	0.77	-0.59	0.49
8,100.00	89.43	134.090	5,115.99	-1,974.85	2,652.55	3,299.40	0.50	-0.39	0.31
8,159.00	90.50	133.740	5,116.02	-2,015.77	2,695.06	3,358.30	1.91	1.81	-0.59
8,221.00	89.93	134.680	5,115.79	-2,059.00	2,739.50	3,420.17	1.77	-0.92	1.52
8,281.00	89.56	133.830	5,116.06	-2,100.87	2,782.47	3,480.05	1.55	-0.62	-1.42
8,340.00	90.13	133.730	5,116.22	-2,141.70	2,825.07	3,538.95	0.98	0.97	-0.17
8,400.00	90.34	134.240	5,115.97	-2,183.36	2,868.24	3,598.84	0.92	0.35	0.85
8,460.00	89.80	133.950	5,115.90	-2,225.11	2,911.33	3,658.73	1.02	-0.90	-0.48
8,520.00	90.30	134.170	5,115.85	-2,266.84	2,954.44	3,718.61	0.91	0.83	0.37
8,581.00	90.00	135.410	5,115.69	-2,309.81	2,997.74	3,779.45	2.09	-0.49	2.03
8,641.00	89.53	134.570	5,115.93	-2,352.23	3,040.17	3,839.26	1.60	-0.78	-1.40
8,702.00	90.27	135.120	5,116.04	-2,395.25	3,083.42	3,900.09	1.51	1.21	0.90
8,762.00	90.10	135.970	5,115.85	-2,438.07	3,125.44	3,959.86	1.44	-0.28	1.42
8,823.00	90.23	135.250	5,115.67	-2,481.66	3,168.11	4,020.62	1.20	0.21	-1.18
8,884.00	90.74	135.600	5,115.15	-2,525.12	3,210.92	4,081.40	1.01	0.84	0.57
8,946.00	89.40	135.130	5,115.08	-2,569.23	3,254.48	4,143.18	2.29	-2.16	-0.76



Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 333H - Slot 1
Project:	North Alamito Unit	TVD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Site:	J31 2307	MD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Well:	NAU 333H	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)
9,007.00	89.50	134.670	5,115.66	-2,612.29	3,297.69	4,204.00	0.77	0.16	-0.75
9,069.00	89.46	134.350	5,116.23	-2,655.75	3,341.90	4,265.85	0.52	-0.06	-0.52
9,129.00	88.86	133.470	5,117.11	-2,697.36	3,385.12	4,325.74	1.78	-1.00	-1.47
9,190.00	88.96	133.820	5,118.27	-2,739.45	3,429.25	4,386.64	0.60	0.16	0.57
9,251.00	90.03	134.070	5,118.80	-2,781.78	3,473.17	4,447.53	1.80	1.75	0.41
9,312.00	89.56	133.670	5,119.02	-2,824.06	3,517.15	4,508.42	1.01	-0.77	-0.66
9,373.00	88.59	132.970	5,120.01	-2,865.90	3,561.52	4,569.34	1.96	-1.59	-1.15
9,434.00	89.23	133.850	5,121.17	-2,907.81	3,605.82	4,630.26	1.78	1.05	1.44
9,495.00	89.90	134.560	5,121.63	-2,950.34	3,649.55	4,691.13	1.60	1.10	1.16
9,555.00	90.17	134.410	5,121.59	-2,992.38	3,692.36	4,750.99	0.51	0.45	-0.25
9,616.00	90.03	134.050	5,121.49	-3,034.93	3,736.06	4,811.86	0.63	-0.23	-0.59
9,677.00	90.37	133.760	5,121.27	-3,077.23	3,780.01	4,872.76	0.73	0.56	-0.48
9,738.00	90.70	134.400	5,120.71	-3,119.67	3,823.83	4,933.64	1.18	0.54	1.05
9,799.00	90.50	135.880	5,120.07	-3,162.90	3,866.86	4,994.44	2.45	-0.33	2.43
9,860.00	90.54	136.730	5,119.51	-3,207.01	3,908.99	5,055.12	1.39	0.07	1.39
9,920.00	90.60	136.520	5,118.92	-3,250.62	3,950.20	5,114.78	0.36	0.10	-0.35
9,981.00	90.57	136.750	5,118.29	-3,294.96	3,992.08	5,175.44	0.38	-0.05	0.38
10,042.00	90.57	136.230	5,117.69	-3,339.20	4,034.08	5,236.11	0.85	0.00	-0.85
10,103.00	90.94	136.490	5,116.88	-3,383.34	4,076.17	5,296.79	0.74	0.61	0.43
10,164.00	90.84	136.090	5,115.94	-3,427.43	4,118.32	5,357.47	0.68	-0.16	-0.66
10,224.00	90.03	135.740	5,115.48	-3,470.52	4,160.06	5,417.21	1.47	-1.35	-0.58
10,284.00	90.23	135.900	5,115.34	-3,513.55	4,201.87	5,476.95	0.43	0.33	0.27
10,345.00	90.74	135.850	5,114.83	-3,557.34	4,244.34	5,537.69	0.84	0.84	-0.08
10,406.00	91.17	136.040	5,113.81	-3,601.17	4,286.75	5,598.41	0.77	0.70	0.31
10,467.00	91.41	135.900	5,112.44	-3,645.02	4,329.14	5,659.12	0.46	0.39	-0.23
10,528.00	90.30	133.310	5,111.53	-3,687.84	4,372.56	5,719.95	4.62	-1.82	-4.25
10,589.00	89.63	132.130	5,111.56	-3,729.23	4,417.37	5,780.91	2.22	-1.10	-1.93
10,651.00	89.53	131.770	5,112.02	-3,770.67	4,463.48	5,842.89	0.60	-0.16	-0.58
10,712.00	89.50	131.770	5,112.53	-3,811.30	4,508.98	5,903.87	0.05	-0.05	0.00
10,772.00	89.16	131.230	5,113.24	-3,851.06	4,553.91	5,963.86	1.06	-0.57	-0.90
10,834.00	88.99	130.950	5,114.24	-3,891.80	4,600.63	6,025.85	0.53	-0.27	-0.45
10,894.00	89.03	131.020	5,115.27	-3,931.15	4,645.92	6,085.84	0.13	0.07	0.12
10,955.00	89.30	130.620	5,116.16	-3,971.02	4,692.08	6,146.83	0.79	0.44	-0.66
11,016.00	88.42	130.170	5,117.38	-4,010.54	4,738.52	6,207.82	1.62	-1.44	-0.74
11,078.00	91.44	133.260	5,117.45	-4,051.79	4,784.79	6,269.79	6.97	4.87	4.98
11,138.00	90.91	133.340	5,116.22	-4,092.93	4,828.45	6,329.71	0.89	-0.88	0.13
11,198.00	90.20	131.760	5,115.64	-4,133.50	4,872.65	6,389.66	2.89	-1.18	-2.63
11,259.00	90.70	131.280	5,115.16	-4,173.93	4,918.32	6,450.65	1.14	0.82	-0.79
11,320.00	92.45	131.650	5,113.49	-4,214.31	4,964.01	6,511.62	2.93	2.87	0.61
11,381.00	91.54	132.050	5,111.36	-4,254.98	5,009.42	6,572.57	1.63	-1.49	0.66
11,442.00	91.81	132.310	5,109.58	-4,295.92	5,054.61	6,633.52	0.61	0.44	0.43
11,503.00	91.14	133.660	5,108.01	-4,337.50	5,099.21	6,694.44	2.47	-1.10	2.21
11,564.00	89.77	133.970	5,107.52	-4,379.73	5,143.23	6,755.34	2.30	-2.25	0.51



Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well NAU 333H - Slot 1
Project:	North Alamo Unit	TVD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Site:	J31 2307	MD Reference:	GL 6979' & RKB 14' @ 6993.00usft (Aztec 920)
Well:	NAU 333H	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)
11,626.00	89.87	133.990	5,107.72	-4,422.78	5,187.84	6,817.22	0.16	0.16	0.03
11,688.00	89.97	133.870	5,107.81	-4,465.80	5,232.49	6,879.12	0.25	0.16	-0.19
11,749.00	90.44	133.710	5,107.59	-4,508.01	5,276.53	6,940.02	0.81	0.77	-0.26
11,798.00	90.44	133.710	5,107.21	-4,541.87	5,311.94	6,988.94	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
439.00	439.00	-1.37	0.14	First SDI Surface MWD Survey
4,235.00	4,232.12	-98.44	-88.84	Last SDI Surface MWD Survey
4,297.00	4,294.06	-100.38	-90.72	First SDI Curve MWD Survey
5,418.00	5,082.19	-459.83	449.54	Last SDI Curve MWD Survey
5,502.00	5,091.90	-503.31	520.73	First SDI Lateral MWD Survey
11,749.00	5,107.59	-4,508.01	5,276.53	Last SDI Lateral MWD Survey
11,798.00	5,107.21	-4,541.87	5,311.94	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 21516

COMMENTS

Operator:	DJR OPERATING, LLC	1 Road 3263	Aztec, NM87410	OGRID:	371838	Action Number:	21516	Action Type:	C-104C
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Created By	Comment							Comment Date	
ahvermersch	Resubmitted through OCD Online Epermitting per OCD's request; original filing from 12/4/20 was misplaced.							03/23/2021	

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

CONDITIONS

Action 21516

CONDITIONS OF APPROVAL

Operator:	DJR OPERATING, LLC	1 Road 3263	Aztec, NM87410	OGRID:	371838	Action Number:	21516	Action Type:	C-104C
OCD Reviewer									Condition
ahvermersch									None