

OCT 04 2019

DISTRICT III

Form C-102

Revised August 1, 2011

DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1283 Fax: (505) 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, NM 87506
Phone: (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505Submit one copy to appropriate
District Office☐ AMENDED REPORT
☒ AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21290	² Pool Code 42289	³ Pool Name LYBROOK GALLUP OIL POOL
⁴ Property Code 325271	⁵ Property Name VENADO CANYON UNIT	⁶ Well Number 204H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 7040'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
M	12	22N	6W		1335'	SOUTH	163'	WEST	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	WEST/West line	County
I	13	22N	6W		1469'	SOUTH	354'	EAST	SANDOVAL

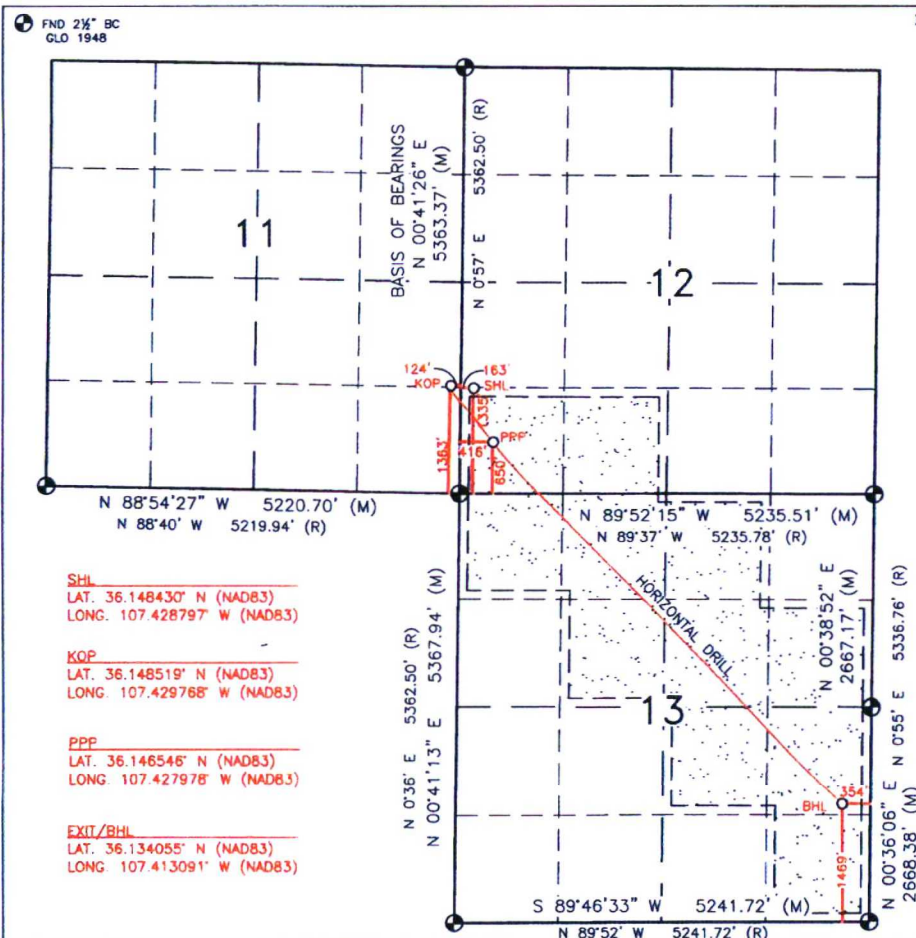
¹² Dedicated Acres
SEC. 12: SW/SW & SE/SW (80 ACRES); SEC. 13:
N2/NW, SE/NW, S2/NE, NW/NE, N2/SE & SE/SE
(360 ACRES) = 440 ACRES TOTAL

¹³ Joint or Infill¹⁴ Consolidation Code¹⁵ Order No.

R-14067A (5280 ACRES)

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



17 OPERATOR CERTIFICATION

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

Signature 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.

SEPTEMBER 24, 2019

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number 11393

AV

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Energy, Minerals & Natural Resources Department

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1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT
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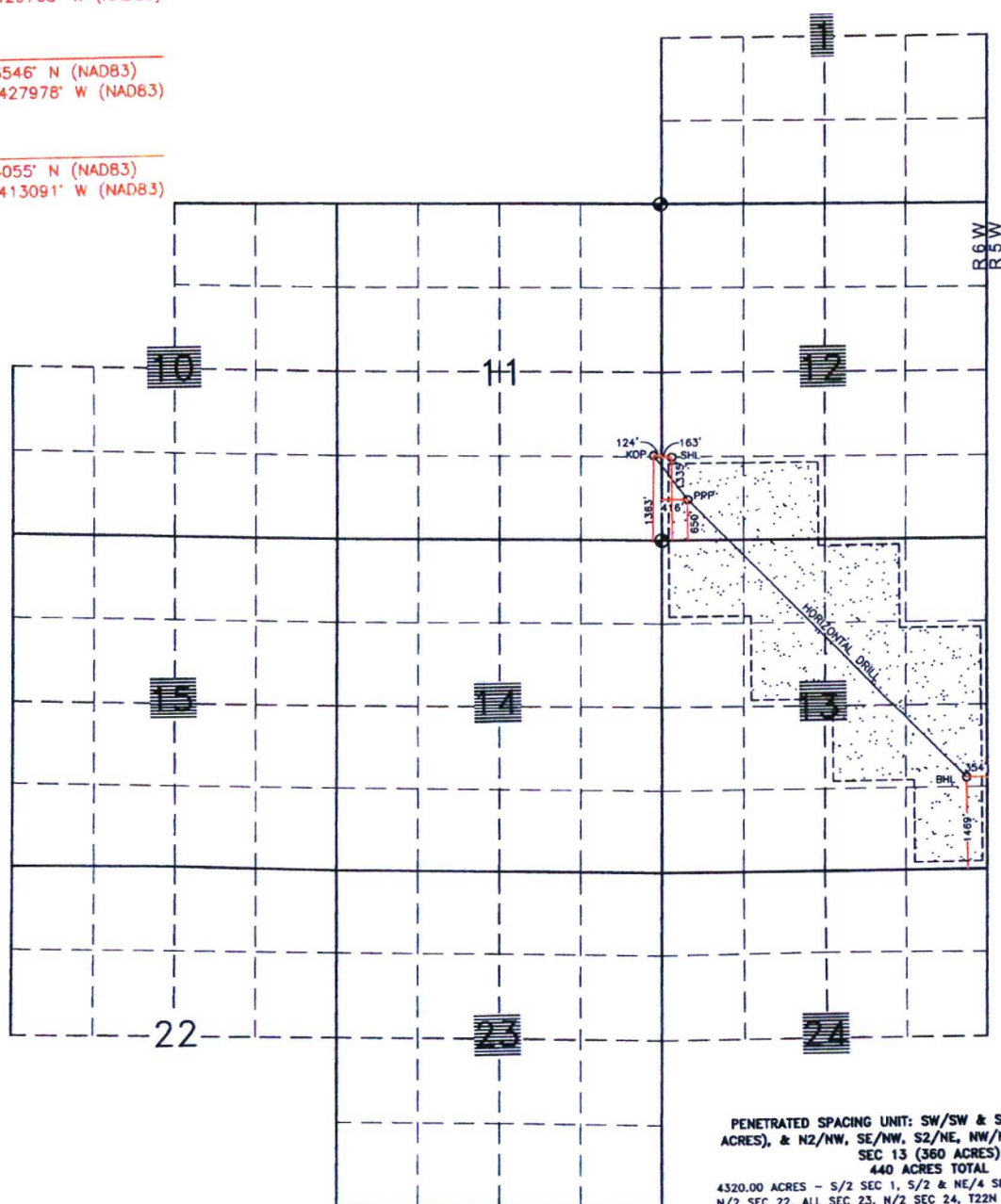
DJR OPERATING, LTD
VENADO CANYON UNIT #204H

SHL
LAT. 36.148430° N (NAD83)
LONG. 107.428797° W (NAD83)

KOP
LAT. 36.148519° N (NAD83)
LONG. 107.429768° W (NAD83)

PPP
LAT. 36.146546° N (NAD83)
LONG. 107.427978° W (NAD83)

EXIT/BHL
LAT. 36.134055° N (NAD83)
LONG. 107.413091° W (NAD83)





DJR Operating

Venado Canyon Unit
L12 2206 Pad
204H

Original drilling

Design: Original drilling

Standard Survey Report

23 September, 2019



www.scientificdrilling.com

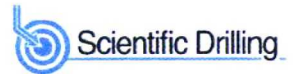


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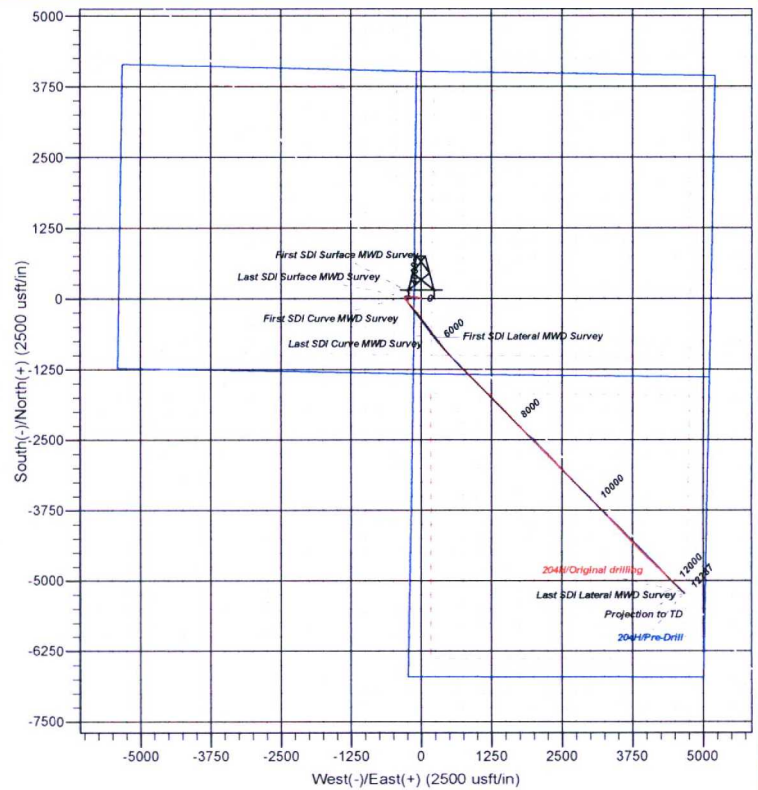
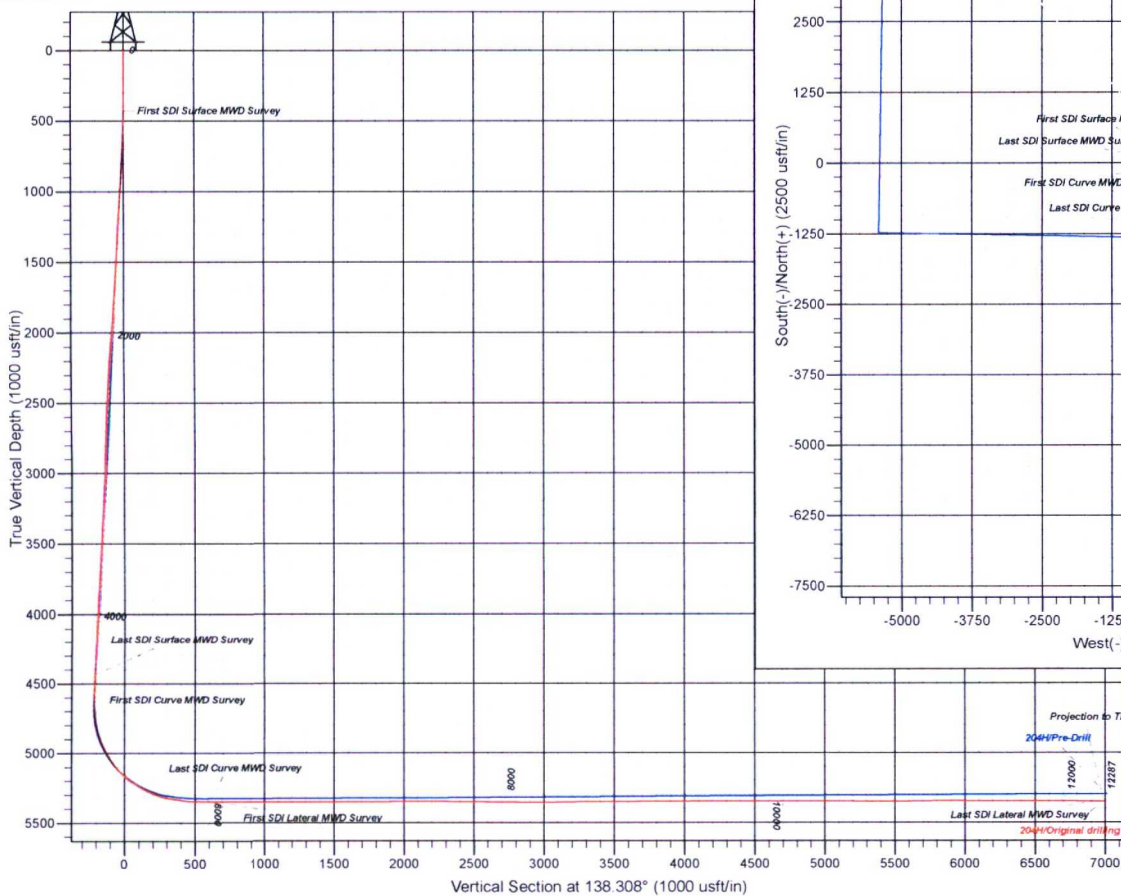


Company Name: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling



WELL DETAILS: 204H

+N/-S	+E/-W	GL 7040' & RKB 14' @ 7054.00usft (Aztec 920) 7040.00	North	East	Lat	Long
0.00	0.00		1873573.73	2842524.09	36.1484300	-107.4287970



Design: Original drilling (204H/Original drilling)

Created By: Janie Collins Date: 9:01, September 23 2019

PROJECT DETAILS: Venado Canyon Unit

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Western Zone

System Datum: Mean Sea Level

Local North: True



Scientific Drilling, Intl

Survey Report



Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: Original drilling

Local Co-ordinate Reference: Well 204H
TVD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
MD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Project	Venado Canyon 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		L12 2206 Pad			
Site Position:		Northing:	1,873,558.70 usft	Latitude:	36.1483890
From:	Lat/Long	Easting:	2,842,498.17 usft	Longitude:	-107.4288850
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.24 °

Well	204H					
Well Position	+N/-S	0.00 usft	Northing:	1,873,573.74 usft	Latitude:	36.1484300
	+E/-W	0.00 usft	Easting:	2,842,524.09 usft	Longitude:	-107.4287970
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	7,040.00 usft

Wellbore	Original drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/14/2019	8.67	62.78	49,245

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	138.308	

Survey Program		Date	9/23/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
430.00	4,445.00	Survey #1 - Surface MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
4,558.00	5,895.00	Survey #2 - Curve MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
5,959.00	12,287.00	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
430.00	1.43	222.800	429.96	-3.94	-3.65	0.52	0.33	0.33	0.00
491.00	1.97	247.430	490.93	-4.90	-5.13	0.24	1.47	0.89	40.38
583.00	2.21	291.070	582.87	-4.87	-8.25	-1.85	1.71	0.26	47.43
645.00	2.57	289.390	644.82	-3.98	-10.67	-4.13	0.59	0.58	-2.71
706.00	3.38	284.390	705.74	-3.07	-13.71	-6.82	1.39	1.33	-8.20
766.00	3.76	285.720	765.62	-2.10	-17.31	-9.95	0.65	0.63	2.22
827.00	3.64	288.350	826.49	-0.95	-21.08	-13.31	0.34	-0.20	4.31
886.00	4.01	287.050	885.36	0.24	-24.83	-16.69	0.64	0.63	-2.20



Scientific Drilling, Intl
Survey Report



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Wellbore: Original drilling
Design: Original drilling

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MD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
948.00	4.68	285.080	947.18	1.54	-29.34	-20.66	1.11	1.08	-3.18
1,009.00	4.63	285.590	1,007.98	2.85	-34.11	-24.82	0.11	-0.08	0.84
1,070.00	3.98	287.540	1,068.81	4.15	-38.50	-28.71	1.09	-1.07	3.20
1,130.00	4.16	282.410	1,128.66	5.24	-42.62	-32.26	0.68	0.30	-8.55
1,191.00	4.91	275.630	1,189.47	5.97	-47.37	-35.97	1.51	1.23	-11.11
1,252.00	5.13	278.210	1,250.23	6.62	-52.67	-39.98	0.52	0.36	4.23
1,313.00	4.55	275.030	1,311.02	7.22	-57.78	-43.82	1.05	-0.95	-5.21
1,374.00	4.38	271.730	1,371.83	7.50	-62.52	-47.19	0.50	-0.28	-5.41
1,435.00	4.57	270.370	1,432.64	7.59	-67.28	-50.41	0.36	0.31	-2.23
1,495.00	4.64	269.630	1,492.45	7.59	-72.09	-53.62	0.15	0.12	-1.23
1,556.00	4.55	267.360	1,553.26	7.46	-76.98	-56.77	0.33	-0.15	-3.72
1,617.00	4.54	264.500	1,614.06	7.12	-81.80	-59.72	0.37	-0.02	-4.69
1,678.00	4.58	264.330	1,674.87	6.65	-86.63	-62.58	0.07	0.07	-0.28
1,740.00	4.39	274.440	1,736.68	6.59	-91.45	-65.75	1.31	-0.31	16.31
1,800.00	4.47	278.670	1,796.50	7.12	-96.06	-69.20	0.56	0.13	7.05
1,862.00	5.12	279.490	1,858.28	7.94	-101.17	-73.22	1.05	1.05	1.32
1,922.00	5.59	282.110	1,918.02	8.99	-106.67	-77.66	0.88	0.78	4.37
1,985.00	5.54	283.290	1,980.73	10.33	-112.63	-82.63	0.20	-0.08	1.87
2,048.00	5.77	282.560	2,043.42	11.72	-118.68	-87.69	0.38	0.37	-1.16
2,111.00	5.78	281.890	2,106.10	13.06	-124.88	-92.81	0.11	0.02	-1.06
2,174.00	5.57	281.320	2,168.79	14.32	-130.98	-97.81	0.35	-0.33	-0.90
2,237.00	5.57	279.540	2,231.49	15.42	-136.99	-102.63	0.27	0.00	-2.83
2,301.00	5.74	279.350	2,295.18	16.46	-143.21	-107.54	0.27	0.27	-0.30
2,363.00	4.77	277.650	2,356.92	17.31	-148.83	-111.91	1.58	-1.56	-2.74
2,426.00	4.76	279.240	2,419.70	18.07	-154.00	-115.93	0.21	-0.02	2.52
2,489.00	3.74	273.580	2,482.53	18.62	-158.63	-119.42	1.75	-1.62	-8.98
2,553.00	3.22	277.830	2,546.41	19.00	-162.50	-122.27	0.91	-0.81	6.64
2,616.00	3.31	275.550	2,609.31	19.41	-166.06	-124.95	0.25	0.14	-3.62
2,679.00	3.59	270.400	2,672.19	19.60	-169.84	-127.61	0.66	0.44	-8.17
2,742.00	3.46	272.910	2,735.08	19.71	-173.71	-130.26	0.32	-0.21	3.98
2,805.00	3.33	263.140	2,797.97	19.59	-177.43	-132.64	0.94	-0.21	-15.51
2,868.00	3.05	263.850	2,860.87	19.19	-180.91	-134.66	0.45	-0.44	1.13
2,931.00	2.92	261.880	2,923.78	18.79	-184.17	-136.52	0.26	-0.21	-3.13
2,994.00	3.02	259.370	2,986.70	18.25	-187.39	-138.27	0.26	0.16	-3.98
3,058.00	3.05	275.970	3,050.61	18.12	-190.74	-140.40	1.37	0.05	25.94
3,120.00	2.97	284.790	3,112.52	18.70	-193.93	-142.95	0.76	-0.13	14.23
3,183.00	2.86	277.080	3,175.44	19.31	-197.07	-145.50	0.65	-0.17	-12.24
3,247.00	2.78	275.920	3,239.37	19.67	-200.20	-147.84	0.15	-0.13	-1.81
3,310.00	3.47	283.060	3,302.27	20.26	-203.57	-150.53	1.26	1.10	11.33
3,373.00	3.82	290.740	3,365.14	21.43	-207.39	-153.95	0.95	0.56	12.19
3,436.00	3.61	285.120	3,428.01	22.69	-211.27	-157.47	0.67	-0.33	-8.92
3,499.00	3.59	282.360	3,490.89	23.63	-215.11	-160.72	0.28	-0.03	-4.38
3,562.00	4.02	283.000	3,553.75	24.55	-219.19	-164.12	0.69	0.68	1.02



Scientific Drilling, Intl
Survey Report



Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: Original drilling

Local Co-ordinate Reference: Well 204H
TVD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
MD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
3,625.00	4.45	282.330	3,616.58	25.57	-223.73	-167.90	0.69	0.68	-1.06
3,688.00	4.33	277.950	3,679.39	26.42	-228.47	-171.69	0.57	-0.19	-6.95
3,751.00	4.13	276.660	3,742.22	27.01	-233.08	-175.20	0.35	-0.32	-2.05
3,814.00	4.12	274.720	3,805.06	27.46	-237.59	-178.54	0.22	-0.02	-3.08
3,877.00	4.12	275.490	3,867.89	27.86	-242.10	-181.83	0.09	0.00	1.22
3,940.00	4.01	272.980	3,930.74	28.20	-246.55	-185.04	0.33	-0.17	-3.98
4,004.00	4.11	270.180	3,994.58	28.32	-251.08	-188.15	0.35	0.16	-4.38
4,067.00	3.90	270.430	4,057.42	28.34	-255.48	-191.09	0.33	-0.33	0.40
4,130.00	3.83	269.100	4,120.28	28.33	-259.73	-193.90	0.18	-0.11	-2.11
4,193.00	3.75	275.590	4,183.14	28.49	-263.88	-196.79	0.69	-0.13	10.30
4,256.00	3.99	280.080	4,246.00	29.08	-268.09	-200.03	0.61	0.38	7.13
4,319.00	3.78	279.130	4,308.85	29.79	-272.30	-203.36	0.35	-0.33	-1.51
4,382.00	3.53	277.110	4,371.72	30.36	-276.27	-206.43	0.45	-0.40	-3.21
4,445.00	3.29	273.900	4,434.61	30.72	-280.00	-209.18	0.49	-0.38	-5.10
4,558.00	3.59	274.630	4,547.41	31.23	-286.76	-214.05	0.27	0.27	0.65
4,621.00	4.04	242.730	4,610.28	30.37	-290.70	-216.03	3.40	0.71	-50.63
4,684.00	5.42	192.180	4,673.09	26.44	-293.30	-214.83	6.70	2.19	-80.24
4,747.00	9.14	185.930	4,735.57	18.56	-294.45	-209.70	6.03	5.90	-9.92
4,810.00	11.17	175.330	4,797.58	7.50	-294.47	-201.46	4.37	3.22	-16.83
4,873.00	16.03	153.520	4,858.84	-6.39	-290.09	-188.17	11.09	7.71	-34.62
4,936.00	23.28	148.770	4,918.13	-24.85	-279.74	-167.51	11.77	11.51	-7.54
4,999.00	25.97	147.530	4,975.40	-47.13	-265.88	-141.65	4.35	4.27	-1.97
5,062.00	30.85	140.380	5,030.81	-71.24	-248.16	-111.86	9.43	7.75	-11.35
5,126.00	37.07	136.260	5,083.87	-97.84	-224.33	-76.15	10.36	9.72	-6.44
5,189.00	42.23	135.830	5,132.36	-126.77	-196.43	-35.99	8.20	8.19	-0.68
5,252.00	49.27	137.370	5,176.30	-159.56	-165.47	9.09	11.31	11.17	2.44
5,315.00	55.26	138.290	5,214.84	-196.48	-132.05	58.88	9.58	9.51	1.46
5,379.00	60.50	139.370	5,248.86	-237.27	-96.39	113.07	8.31	8.19	1.69
5,442.00	64.96	140.680	5,277.71	-280.18	-60.44	169.02	7.32	7.08	2.08
5,505.00	70.06	140.810	5,301.81	-325.24	-23.62	227.16	8.10	8.10	0.21
5,568.00	75.99	142.760	5,320.19	-372.57	13.63	287.27	9.87	9.41	3.10
5,624.00	80.52	143.540	5,331.59	-416.43	46.50	341.89	8.20	8.09	1.39
5,705.00	83.87	143.790	5,342.59	-481.07	94.04	421.78	4.15	4.14	0.31
5,769.00	85.64	143.740	5,348.44	-532.47	131.71	485.22	2.77	2.77	-0.08
5,832.00	88.39	144.360	5,351.72	-583.40	168.64	547.81	4.47	4.37	0.98
5,895.00	89.83	143.040	5,352.70	-634.17	205.93	610.52	3.10	2.29	-2.10
5,959.00	89.46	142.120	5,353.09	-684.99	244.82	674.34	1.55	-0.58	-1.44
6,021.00	90.44	142.250	5,353.15	-733.97	282.83	736.20	1.59	1.58	0.21
6,084.00	90.44	141.900	5,352.66	-783.67	321.55	799.06	0.56	0.00	-0.56
6,148.00	90.34	141.530	5,352.23	-833.90	361.20	862.95	0.60	-0.16	-0.58
6,211.00	90.10	141.550	5,351.99	-883.23	400.39	925.84	0.38	-0.38	0.03
6,274.00	90.60	140.610	5,351.60	-932.25	439.96	988.77	1.69	0.79	-1.49
6,336.00	91.01	138.630	5,350.73	-979.47	480.13	1,050.74	3.26	0.66	-3.19



Scientific Drilling, Intl
Survey Report



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Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: Original drilling

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Database: Grand Junction District

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)
6,399.00	89.73	137.040	5,350.32	-1,026.16	522.41	1,113.74	3.24	-2.03	-2.52
6,461.00	90.13	135.760	5,350.40	-1,071.06	565.17	1,175.70	2.16	0.65	-2.06
6,524.00	89.60	135.440	5,350.55	-1,116.07	609.25	1,238.63	0.98	-0.84	-0.51
6,587.00	89.33	135.100	5,351.13	-1,160.83	653.58	1,301.54	0.69	-0.43	-0.54
6,650.00	88.99	134.910	5,352.06	-1,205.37	698.12	1,364.43	0.62	-0.54	-0.30
6,711.00	89.93	134.000	5,352.63	-1,248.09	741.66	1,425.29	2.14	1.54	-1.49
6,771.00	90.10	133.940	5,352.62	-1,289.75	784.84	1,485.11	0.30	0.28	-0.10
6,832.00	89.77	133.590	5,352.69	-1,331.94	828.89	1,545.92	0.79	-0.54	-0.57
6,893.00	90.20	134.030	5,352.70	-1,374.17	872.91	1,606.73	1.01	0.70	0.72
6,953.00	90.13	134.090	5,352.53	-1,415.89	916.03	1,666.57	0.15	-0.12	0.10
7,014.00	90.54	134.430	5,352.17	-1,458.47	959.72	1,727.41	0.87	0.67	0.56
7,074.00	90.44	134.710	5,351.66	-1,500.57	1,002.46	1,787.28	0.50	-0.17	0.47
7,135.00	90.47	133.830	5,351.18	-1,543.15	1,046.14	1,848.13	1.44	0.05	-1.44
7,197.00	90.84	133.890	5,350.47	-1,586.11	1,090.84	1,909.94	0.60	0.60	0.10
7,258.00	90.37	135.590	5,349.82	-1,629.04	1,134.16	1,970.82	2.89	-0.77	2.79
7,319.00	89.93	136.180	5,349.66	-1,672.83	1,176.62	2,031.76	1.21	-0.72	0.97
7,381.00	89.83	135.970	5,349.79	-1,717.49	1,219.63	2,093.71	0.38	-0.16	-0.34
7,442.00	89.60	135.460	5,350.10	-1,761.16	1,262.23	2,154.65	0.92	-0.38	-0.84
7,503.00	89.60	134.890	5,350.52	-1,804.42	1,305.23	2,215.56	0.93	0.00	-0.93
7,564.00	89.53	134.610	5,350.99	-1,847.36	1,348.55	2,276.44	0.47	-0.11	-0.46
7,625.00	89.46	135.350	5,351.52	-1,890.48	1,391.69	2,337.33	1.22	-0.11	1.21
7,686.00	89.43	136.460	5,352.11	-1,934.29	1,434.14	2,398.27	1.82	-0.05	1.82
7,746.00	89.63	136.080	5,352.61	-1,977.64	1,475.61	2,458.23	0.72	0.33	-0.63
7,806.00	89.50	137.370	5,353.06	-2,021.32	1,516.74	2,518.21	2.16	-0.22	2.15
7,866.00	89.40	137.360	5,353.64	-2,065.46	1,557.38	2,578.20	0.17	-0.17	-0.02
7,926.00	89.36	137.370	5,354.29	-2,109.60	1,598.01	2,638.19	0.07	-0.07	0.02
7,988.00	89.50	137.100	5,354.90	-2,155.12	1,640.11	2,700.17	0.49	0.23	-0.44
8,048.00	89.40	136.290	5,355.48	-2,198.78	1,681.26	2,760.14	1.36	-0.17	-1.35
8,109.00	89.33	136.100	5,356.16	-2,242.80	1,723.48	2,821.10	0.33	-0.11	-0.31
8,170.00	89.09	135.200	5,357.00	-2,286.41	1,766.12	2,882.03	1.53	-0.39	-1.48
8,231.00	89.03	135.150	5,358.00	-2,329.67	1,809.11	2,942.93	0.13	-0.10	-0.08
8,292.00	90.37	136.190	5,358.32	-2,373.31	1,851.74	3,003.86	2.78	2.20	1.70
8,354.00	91.24	137.160	5,357.45	-2,418.40	1,894.27	3,065.83	2.10	1.40	1.56
8,416.00	91.34	136.720	5,356.05	-2,463.69	1,936.59	3,127.79	0.73	0.16	-0.71
8,477.00	90.57	136.760	5,355.03	-2,508.11	1,978.39	3,188.76	1.26	-1.26	0.07
8,539.00	90.54	136.020	5,354.43	-2,553.00	2,021.15	3,250.72	1.19	-0.05	-1.19
8,599.00	90.60	136.140	5,353.84	-2,596.21	2,062.77	3,310.68	0.22	0.10	0.20
8,660.00	90.77	135.970	5,353.11	-2,640.13	2,105.10	3,371.62	0.39	0.28	-0.28
8,721.00	90.64	136.170	5,352.36	-2,684.06	2,147.42	3,432.57	0.39	-0.21	0.33
8,783.00	90.61	136.300	5,351.68	-2,728.83	2,190.30	3,494.53	0.22	-0.05	0.21
8,844.00	89.93	135.800	5,351.39	-2,772.75	2,232.64	3,555.48	1.38	-1.11	-0.82
8,907.00	90.00	135.410	5,351.43	-2,817.76	2,276.71	3,618.41	0.63	0.11	-0.62
8,968.00	90.44	135.300	5,351.20	-2,861.16	2,319.58	3,679.33	0.74	0.72	-0.18
9,029.00	90.37	135.180	5,350.77	-2,904.47	2,362.53	3,740.24	0.23	-0.11	-0.20



Scientific Drilling, Intl
Survey Report



Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: Original drilling

Local Co-ordinate Reference: Well 204H
TVD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
MD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
9,090.00	90.27	134.770	5,350.42	-2,947.59	2,405.68	3,801.14	0.69	-0.16	-0.67
9,151.00	90.23	134.370	5,350.16	-2,990.40	2,449.13	3,862.01	0.66	-0.07	-0.66
9,212.00	90.34	133.920	5,349.86	-3,032.88	2,492.91	3,922.84	0.76	0.18	-0.74
9,274.00	90.30	133.830	5,349.51	-3,075.85	2,537.60	3,984.66	0.16	-0.06	-0.15
9,335.00	90.77	133.820	5,348.94	-3,118.09	2,581.60	4,045.47	0.77	0.77	-0.02
9,397.00	89.46	133.340	5,348.81	-3,160.83	2,626.52	4,107.25	2.25	-2.11	-0.77
9,458.00	89.93	135.420	5,349.14	-3,203.49	2,670.11	4,168.11	3.50	0.77	3.41
9,520.00	90.54	136.070	5,348.89	-3,247.90	2,713.38	4,230.04	1.44	0.98	1.05
9,581.00	89.77	135.240	5,348.72	-3,291.52	2,756.01	4,290.98	1.86	-1.26	-1.36
9,643.00	89.73	134.920	5,348.99	-3,335.42	2,799.79	4,352.88	0.52	-0.06	-0.52
9,704.00	90.34	135.230	5,348.95	-3,378.61	2,842.87	4,413.78	1.12	1.00	0.51
9,764.00	90.40	135.810	5,348.57	-3,421.42	2,884.91	4,473.71	0.97	0.10	0.97
9,825.00	89.90	135.650	5,348.41	-3,465.10	2,927.49	4,534.65	0.86	-0.82	-0.26
9,886.00	90.50	136.130	5,348.19	-3,508.90	2,969.95	4,595.59	1.26	0.98	0.79
9,947.00	90.24	135.730	5,347.80	-3,552.72	3,012.37	4,656.54	0.78	-0.43	-0.66
10,008.00	90.20	135.460	5,347.57	-3,596.30	3,055.06	4,717.47	0.45	-0.07	-0.44
10,069.00	89.66	134.900	5,347.64	-3,639.57	3,098.05	4,778.38	1.28	-0.89	-0.92
10,131.00	90.03	134.790	5,347.81	-3,683.29	3,142.01	4,840.26	0.62	0.60	-0.18
10,192.00	90.00	135.870	5,347.79	-3,726.67	3,184.90	4,901.18	1.77	-0.05	1.77
10,253.00	89.93	136.030	5,347.83	-3,770.52	3,227.31	4,962.13	0.29	-0.11	0.26
10,315.00	90.17	137.330	5,347.77	-3,815.62	3,269.84	5,024.10	2.13	0.39	2.10
10,377.00	90.44	137.910	5,347.44	-3,861.42	3,311.63	5,086.10	1.03	0.44	0.94
10,438.00	88.99	137.420	5,347.75	-3,906.51	3,352.71	5,147.09	2.51	-2.38	-0.80
10,499.00	89.13	137.630	5,348.75	-3,951.50	3,393.90	5,208.08	0.41	0.23	0.34
10,560.00	88.96	136.950	5,349.77	-3,996.31	3,435.27	5,269.06	1.15	-0.28	-1.11
10,622.00	89.70	137.010	5,350.49	-4,041.64	3,477.57	5,331.04	1.20	1.19	0.10
10,683.00	89.63	137.420	5,350.85	-4,086.41	3,519.00	5,392.02	0.68	-0.11	0.67
10,745.00	89.63	136.900	5,351.25	-4,131.87	3,561.16	5,454.01	0.84	0.00	-0.84
10,805.00	90.44	136.720	5,351.21	-4,175.61	3,602.22	5,513.99	1.38	1.35	-0.30
10,866.00	90.77	137.090	5,350.57	-4,220.15	3,643.89	5,574.97	0.81	0.54	0.61
10,926.00	90.94	137.090	5,349.67	-4,264.09	3,684.74	5,634.95	0.28	0.28	0.00
10,988.00	91.14	136.930	5,348.55	-4,309.44	3,727.01	5,696.92	0.41	0.32	-0.26
11,049.00	90.91	136.320	5,347.46	-4,353.77	3,768.89	5,757.88	1.07	-0.38	-1.00
11,109.00	89.90	136.030	5,347.03	-4,397.05	3,810.44	5,817.84	1.75	-1.68	-0.48
11,170.00	90.00	135.440	5,347.08	-4,440.74	3,853.02	5,878.78	0.98	0.16	-0.97
11,231.00	89.83	135.240	5,347.17	-4,484.13	3,895.89	5,939.70	0.43	-0.28	-0.33
11,291.00	89.97	134.900	5,347.28	-4,526.60	3,938.27	5,999.60	0.61	0.23	-0.57
11,353.00	90.34	135.000	5,347.11	-4,570.41	3,982.15	6,061.49	0.62	0.60	0.16
11,413.00	90.71	134.640	5,346.56	-4,612.70	4,024.70	6,121.38	0.86	0.62	-0.60
11,474.00	89.66	133.460	5,346.36	-4,655.11	4,068.55	6,182.21	2.59	-1.72	-1.93
11,535.00	89.80	133.100	5,346.65	-4,696.93	4,112.95	6,242.97	0.63	0.23	-0.59
11,599.00	90.10	132.970	5,346.71	-4,740.60	4,159.73	6,306.70	0.51	0.47	-0.20
11,663.00	90.37	133.120	5,346.45	-4,784.29	4,206.51	6,370.43	0.48	0.42	0.23



Scientific Drilling, Intl
Survey Report



Company: DJR Operating
Project: Venado Canyon Unit
Site: L12 2206 Pad
Well: 204H
Wellbore: Original drilling
Design: Original drilling

Local Co-ordinate Reference: Well 204H
TVD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
MD Reference: GL 7040' & RKB 14' @ 7054.00usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

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)
11,726.00	89.70	133.970	5,346.41	-4,827.69	4,252.17	6,433.21	1.72	-1.06	1.35
11,790.00	89.90	133.470	5,346.63	-4,871.92	4,298.42	6,497.01	0.84	0.31	-0.78
11,853.00	89.87	134.870	5,346.76	-4,915.82	4,343.61	6,559.84	2.22	-0.05	2.22
11,916.00	90.27	135.010	5,346.68	-4,960.32	4,388.20	6,622.73	0.67	0.63	0.22
11,979.00	88.96	133.430	5,347.10	-5,004.25	4,433.35	6,685.57	3.26	-2.08	-2.51
12,042.00	89.36	133.370	5,348.03	-5,047.53	4,479.12	6,748.33	0.64	0.63	-0.10
12,103.00	89.56	133.050	5,348.60	-5,089.30	4,523.58	6,809.09	0.62	0.33	-0.52
12,167.00	89.50	132.780	5,349.13	-5,132.87	4,570.45	6,872.80	0.43	-0.09	-0.42
12,229.00	89.40	131.720	5,349.72	-5,174.56	4,616.34	6,934.45	1.72	-0.16	-1.71
12,287.00	89.40	131.720	5,350.33	-5,213.15	4,659.63	6,992.06	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
430.00	429.96	-3.94	-3.65	First SDI Surface MWD Survey
4,445.00	4,434.61	30.72	-280.00	Last SDI Surface MWD Survey
4,558.00	4,547.41	31.23	-286.76	First SDI Curve MWD Survey
5,895.00	5,352.70	-634.17	205.93	Last SDI Curve MWD Survey
5,959.00	5,353.09	-684.99	244.82	First SDI Lateral MWD Survey
12,229.00	5,349.72	-5,174.56	4,616.34	Last SDI Lateral MWD Survey
12,287.00	5,350.33	-5,213.15	4,659.63	Projection to TD

Checked By: _____ Approved By: _____ Date: _____