

MAR 12 2020

DISTRICT I
1685 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 393-6181 Fax: (505) 399-0780

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1283 Fax: (505) 748-0780

DISTRICT III
1000 Rio Grande Rd., Aztec, N.M. 87410
Phone: (505) 834-6178 Fax: (505) 834-6170

DISTRICT IV
1880 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-5460 Fax: (505) 478-5462

State of New Mexico
Energy, Minerals & Natural Resources Department

DISTRICT III

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

☒ AS-DRILLED
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35649		² Pool Code 98080	³ Pool Name NAGEEZI UNIT MANCOS OIL POOL
⁴ Property Code 325268	⁵ Property Name NAGEEZI UNIT		⁶ Well Number 627H
⁷ GRID No. 371838	⁸ Operator Name DJR OPERATING, LLC		⁹ Elevation 6800.6'

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
M	30	24N	8W	4	1133'	SOUTH	447'	WEST	SAN JUAN

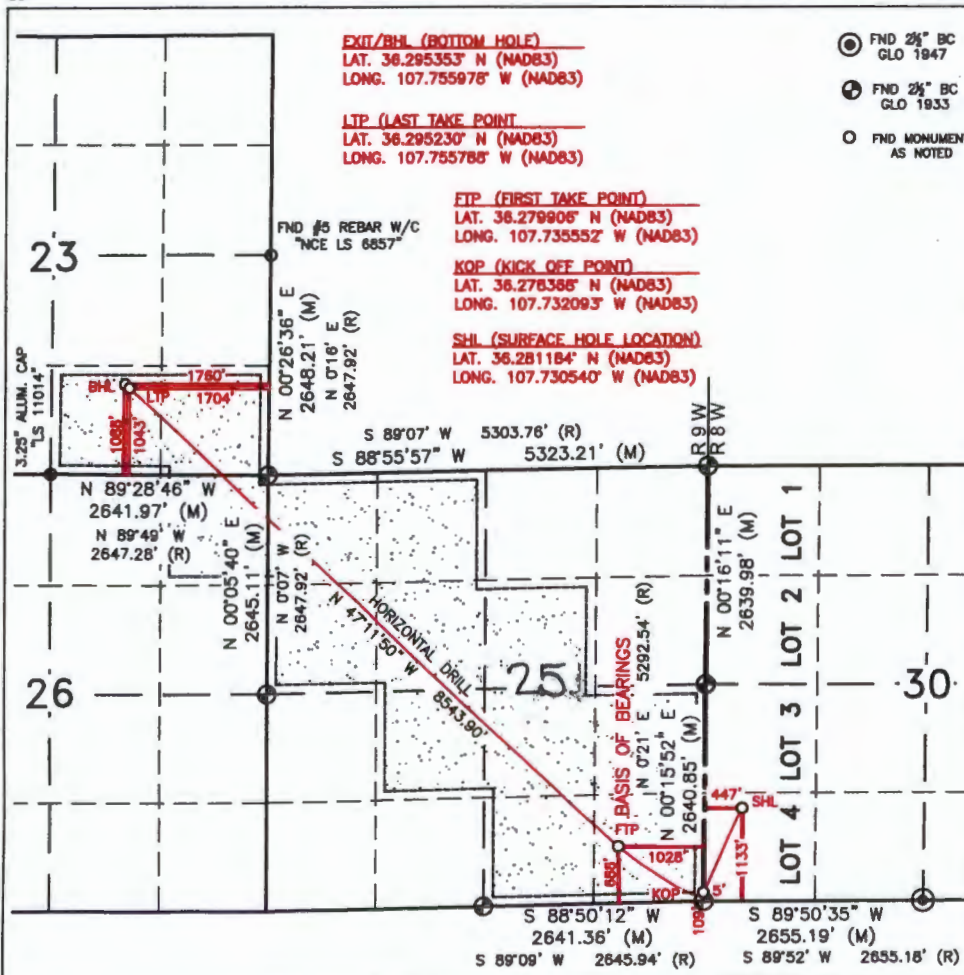
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	23	24N	9W		1088'	SOUTH	1760'	EAST	SAN JUAN

¹² Dedicated Acres PENETRATED SPACING UNIT: SEC 25: SE/4, SW/NE, NE/SW & NW/4 (400 AC.); SEC 26: NE/NE (40 AC.) SEC 23: SE/SE & SW/SE (80 AC.) = 520 ACRES	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13856, R-13856A
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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

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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 03/10/20
Signature Date

Shaw-Marie Ford

Printed Name

sford@djrllc.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.

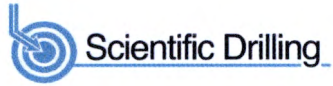
APRIL 1, 2014

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number

AV

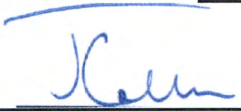


Directional Survey Certification

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

Operator	DJR Operating
Well Name & No.	Nageezi M30 2408 627H
County & State	San Juan, NM
SDI Job No.	OP.022437
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 438 feet to a measured depth of 14,500 feet is true and correct as determined from all available records.


Signature

11-Dec-19
Date

Janie Collins
Colorado District Well Planner
Scientific Drilling International

Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well 627H
Project:	Nageezi Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Site:	M30 2408	MD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Well:	627H	North Reference:	True
Wellbore:	Original drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original drilling	Database:	Grand Junction

Project	Nageezi 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	M30 2408		
Site Position:		Northing:	1,921,666.32 usft
From:	Lat/Long	Easting:	2,753,388.34 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.2811840
		Longitude:	-107.7305400
		Grid Convergence:	0.06 °

Well	627H		
Well Position	+N/-S	0.00 usft	Northing: 1,921,666.32 usft
	+E/-W	0.00 usft	Easting: 2,753,388.34 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.2811840
		Longitude:	-107.7305400
		Ground Level:	6,801.00 usft

Wellbore	Original drilling		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	11/21/2019	8.77
			Dip Angle (°) 62.80
			Field Strength (nT) 49,441.30000000

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)
	0.00	0.00	0.00
			Direction (°) 304.559

Survey Program	Date	12/8/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
438.00	4,616.00	Survey #1 - Surface MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM
4,665.00	5,801.00	Survey #2 - Curve MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM
5,896.00	14,500.00	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
438.00	1.13	231.920	437.97	-2.66	-3.40	1.29	0.26	0.26	0.00
498.00	2.10	222.250	497.95	-3.84	-4.60	1.61	1.67	1.62	-16.12
560.00	3.03	217.880	559.88	-5.98	-6.37	1.86	1.53	1.50	-7.05
620.00	4.21	204.600	619.76	-9.23	-8.27	1.57	2.40	1.97	-22.13
680.00	5.93	203.100	679.53	-14.08	-10.40	0.57	2.87	2.87	-2.50
741.00	7.25	202.400	740.12	-20.54	-13.10	-0.86	2.17	2.16	-1.15
803.00	8.83	204.830	801.51	-28.48	-16.59	-2.49	2.61	2.55	3.92
864.00	8.57	202.720	861.81	-36.92	-20.31	-4.22	0.67	-0.43	-3.46

Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well 627H
Project:	Nageezi Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Site:	M30 2408	MD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Well:	627H	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)
925.00	9.53	204.800	922.05	-45.70	-24.19	-6.00	1.66	1.57	3.41
985.00	11.03	204.310	981.09	-55.44	-28.63	-7.87	2.50	2.50	-0.82
1,047.00	12.12	204.980	1,041.82	-66.74	-33.82	-10.01	1.77	1.76	1.08
1,108.00	13.19	204.900	1,101.34	-78.86	-39.46	-12.24	1.75	1.75	-0.13
1,170.00	14.66	204.470	1,161.52	-92.42	-45.69	-14.80	2.38	2.37	-0.69
1,231.00	15.79	205.250	1,220.38	-106.95	-52.42	-17.49	1.88	1.85	1.28
1,292.00	16.82	205.070	1,278.92	-122.45	-59.70	-20.29	1.69	1.69	-0.30
1,353.00	16.89	202.460	1,337.30	-138.63	-66.83	-23.60	1.25	0.11	-4.28
1,413.00	17.24	202.550	1,394.66	-154.90	-73.57	-27.28	0.58	0.58	0.15
1,474.00	17.18	202.050	1,452.93	-171.60	-80.42	-31.11	0.26	-0.10	-0.82
1,534.00	17.09	203.180	1,510.27	-187.92	-87.21	-34.77	0.57	-0.15	1.88
1,595.00	16.81	203.520	1,568.62	-204.24	-94.26	-38.23	0.49	-0.46	0.56
1,657.00	17.79	205.800	1,627.81	-220.99	-101.96	-41.39	1.92	1.58	3.68
1,718.00	18.23	206.660	1,685.82	-237.91	-110.30	-44.12	0.84	0.72	1.41
1,780.00	17.72	206.220	1,744.80	-255.04	-118.82	-46.82	0.85	-0.82	-0.71
1,840.00	17.11	205.910	1,802.05	-271.17	-126.71	-49.47	1.03	-1.02	-0.52
1,902.00	16.55	204.280	1,861.39	-287.42	-134.33	-52.42	1.18	-0.90	-2.63
1,965.00	16.50	205.070	1,921.79	-303.71	-141.81	-55.50	0.37	-0.08	1.25
2,028.00	16.88	206.340	1,982.13	-320.01	-149.66	-58.28	0.84	0.60	2.02
2,092.00	18.63	207.780	2,043.08	-337.38	-158.54	-60.81	2.82	2.73	2.25
2,154.00	18.94	206.890	2,101.78	-355.12	-167.71	-63.32	0.68	0.50	-1.44
2,217.00	18.76	206.630	2,161.40	-373.29	-176.88	-66.09	0.32	-0.29	-0.41
2,280.00	18.11	205.280	2,221.17	-391.20	-185.60	-69.06	1.23	-1.03	-2.14
2,343.00	17.82	204.260	2,281.10	-408.84	-193.74	-72.37	0.68	-0.46	-1.62
2,407.00	18.19	203.610	2,341.96	-426.93	-201.77	-76.01	0.66	0.58	-1.02
2,470.00	17.85	203.920	2,401.87	-444.76	-209.62	-79.66	0.56	-0.54	0.49
2,533.00	18.47	202.610	2,461.74	-462.80	-217.37	-83.51	1.18	0.98	-2.08
2,596.00	18.68	202.890	2,521.45	-481.31	-225.13	-87.62	0.36	0.33	0.44
2,659.00	18.90	202.870	2,581.10	-500.00	-233.02	-91.73	0.35	0.35	-0.03
2,722.00	18.76	203.100	2,640.72	-518.72	-240.96	-95.81	0.25	-0.22	0.37
2,785.00	17.22	201.330	2,700.64	-536.73	-248.33	-99.95	2.59	-2.44	-2.81
2,848.00	16.94	201.120	2,760.86	-553.98	-255.03	-104.22	0.46	-0.44	-0.33
2,911.00	16.60	201.170	2,821.18	-570.93	-261.58	-108.44	0.54	-0.54	0.08
2,974.00	16.86	200.550	2,881.52	-587.88	-268.04	-112.73	0.50	0.41	-0.98
3,037.00	16.52	199.970	2,941.86	-604.85	-274.31	-117.20	0.60	-0.54	-0.92
3,100.00	16.31	199.310	3,002.30	-621.62	-280.29	-121.78	0.45	-0.33	-1.05
3,163.00	16.49	198.550	3,062.73	-638.44	-286.06	-126.58	0.44	0.29	-1.21
3,226.00	16.57	200.640	3,123.13	-655.33	-292.07	-131.20	0.95	0.13	3.32
3,290.00	16.62	201.180	3,184.46	-672.40	-298.60	-135.52	0.25	0.08	0.84
3,353.00	16.29	200.700	3,244.88	-689.07	-304.97	-139.72	0.57	-0.52	-0.76
3,416.00	16.45	203.120	3,305.33	-705.54	-311.60	-143.60	1.11	0.25	3.84
3,479.00	16.32	203.900	3,365.77	-721.83	-318.69	-147.01	0.41	-0.21	1.24
3,542.00	16.13	203.540	3,426.26	-737.95	-325.77	-150.32	0.34	-0.30	-0.57

Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well 627H
Project:	Nageezi Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Site:	M30 2408	MD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Well:	627H	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)
3,605.00	15.45	202.510	3,486.88	-753.72	-332.48	-153.74	1.17	-1.08	-1.63
3,668.00	15.34	205.480	3,547.63	-769.00	-339.28	-156.81	1.26	-0.17	4.71
3,731.00	17.10	206.270	3,608.12	-784.83	-346.96	-159.46	2.82	2.79	1.25
3,794.00	17.11	205.050	3,668.33	-801.53	-354.98	-162.33	0.57	0.02	-1.94
3,857.00	16.94	204.510	3,728.57	-818.28	-362.72	-165.46	0.37	-0.27	-0.86
3,920.00	16.45	202.980	3,788.91	-834.84	-370.01	-168.85	1.04	-0.78	-2.43
3,984.00	15.91	201.170	3,850.38	-851.36	-376.71	-172.70	1.15	-0.84	-2.83
4,047.00	15.94	203.600	3,910.96	-867.34	-383.29	-176.35	1.06	0.05	3.86
4,110.00	16.44	206.550	3,971.46	-883.25	-390.74	-179.23	1.53	0.79	4.68
4,173.00	16.68	205.660	4,031.85	-899.37	-398.64	-181.87	0.55	0.38	-1.41
4,236.00	17.06	206.830	4,092.14	-915.77	-406.73	-184.52	0.81	0.60	1.86
4,300.00	17.07	205.140	4,153.32	-932.65	-414.96	-187.31	0.78	0.02	-2.64
4,363.00	16.43	204.760	4,213.65	-949.11	-422.62	-190.34	1.03	-1.02	-0.60
4,426.00	15.81	204.290	4,274.17	-965.02	-429.88	-193.39	1.01	-0.98	-0.75
4,489.00	15.81	205.010	4,334.79	-980.62	-437.04	-196.34	0.31	0.00	1.14
4,552.00	16.24	203.750	4,395.34	-996.46	-444.21	-199.42	0.88	0.68	-2.00
4,616.00	16.09	203.100	4,456.81	-1,012.81	-451.30	-202.86	0.37	-0.23	-1.02
4,665.00	16.64	202.430	4,503.82	-1,025.54	-456.64	-205.68	1.19	1.12	-1.37
4,728.00	17.07	213.930	4,564.13	-1,041.56	-465.24	-207.68	5.33	0.68	18.25
4,791.00	19.03	243.850	4,624.16	-1,053.78	-479.66	-202.75	14.87	3.11	47.49
4,855.00	23.38	263.890	4,683.89	-1,059.74	-501.69	-187.98	13.12	6.80	31.31
4,918.00	28.54	274.880	4,740.55	-1,059.79	-529.15	-165.40	11.17	8.19	17.44
4,981.00	31.79	281.350	4,795.02	-1,055.25	-560.43	-137.06	7.29	5.16	10.27
5,044.00	34.36	287.750	4,847.83	-1,046.56	-593.65	-104.77	6.88	4.08	10.16
5,107.00	37.96	292.360	4,898.69	-1,033.76	-628.52	-68.79	7.16	5.71	7.32
5,170.00	40.78	295.200	4,947.39	-1,017.62	-665.06	-29.54	5.31	4.48	4.51
5,233.00	44.88	297.960	4,993.59	-998.43	-703.33	12.86	7.16	6.51	4.38
5,296.00	45.96	298.140	5,037.81	-977.33	-742.93	57.44	1.73	1.71	0.29
5,359.00	45.71	297.470	5,081.70	-956.25	-782.90	102.32	0.86	-0.40	-1.06
5,422.00	51.32	301.040	5,123.43	-933.14	-824.02	149.28	9.86	8.90	5.67
5,486.00	58.02	303.040	5,160.42	-905.43	-868.23	201.42	10.77	10.47	3.13
5,549.00	62.69	302.230	5,191.57	-875.92	-914.33	256.12	7.50	7.41	-1.29
5,612.00	68.58	303.390	5,217.55	-844.83	-962.54	313.46	9.50	9.35	1.84
5,675.00	72.08	303.530	5,238.75	-812.12	-1,012.02	372.76	5.56	5.56	0.22
5,738.00	76.53	304.930	5,255.79	-778.01	-1,062.15	433.39	7.38	7.06	2.22
5,801.00	80.66	304.950	5,268.25	-742.65	-1,112.76	495.14	6.56	6.56	0.03
5,866.00	85.12	304.920	5,280.00	-688.68	-1,190.02	589.38	4.69	4.69	-0.03
5,959.00	86.47	306.430	5,284.62	-652.04	-1,241.06	652.19	3.21	2.14	2.40
6,022.00	87.55	306.680	5,287.91	-614.57	-1,291.60	715.07	1.76	1.71	0.40
6,084.00	87.95	308.650	5,290.34	-576.71	-1,340.64	776.93	3.24	0.65	3.18
6,148.00	89.80	308.990	5,291.60	-536.60	-1,390.49	840.74	2.94	2.89	0.53
6,211.00	90.27	309.180	5,291.56	-496.88	-1,439.39	903.54	0.80	0.75	0.30
6,274.00	90.03	308.550	5,291.40	-457.35	-1,488.44	966.36	1.07	-0.38	-1.00

Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well 627H
Project:	Nageezi Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Site:	M30 2408	MD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Well:	627H	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)
6,336.00	87.95	308.450	5,292.49	-418.76	-1,536.95	1,028.20	3.36	-3.35	-0.16
6,398.00	88.55	310.200	5,294.38	-379.49	-1,584.89	1,089.96	2.98	0.97	2.82
6,462.00	88.52	311.710	5,296.02	-337.56	-1,633.21	1,153.53	2.36	-0.05	2.36
6,525.00	89.60	314.230	5,297.05	-294.62	-1,679.29	1,215.84	4.35	1.71	4.00
6,588.00	89.76	314.350	5,297.41	-250.63	-1,724.39	1,277.94	0.32	0.25	0.19
6,651.00	89.83	313.730	5,297.63	-206.84	-1,769.68	1,340.07	0.99	0.11	-0.98
6,713.00	89.53	313.310	5,297.98	-164.15	-1,814.63	1,401.32	0.83	-0.48	-0.68
6,777.00	89.03	312.180	5,298.78	-120.71	-1,861.63	1,464.66	1.93	-0.78	-1.77
6,839.00	89.53	314.680	5,299.56	-78.09	-1,906.65	1,525.91	4.11	0.81	4.03
6,900.00	89.40	314.170	5,300.13	-35.40	-1,950.21	1,586.00	0.86	-0.21	-0.84
6,962.00	89.26	314.260	5,300.86	7.83	-1,994.64	1,647.12	0.27	-0.23	0.15
7,025.00	89.02	314.470	5,301.80	51.88	-2,039.68	1,709.19	0.51	-0.38	0.33
7,088.00	89.09	314.350	5,302.84	95.96	-2,084.68	1,771.25	0.22	0.11	-0.19
7,151.00	90.00	314.580	5,303.34	140.09	-2,129.64	1,833.31	1.49	1.44	0.37
7,213.00	89.97	314.850	5,303.36	183.71	-2,173.69	1,894.34	0.44	-0.05	0.44
7,276.00	89.83	314.410	5,303.47	227.97	-2,218.53	1,956.37	0.73	-0.22	-0.70
7,338.00	89.63	313.520	5,303.76	271.01	-2,263.15	2,017.53	1.47	-0.32	-1.44
7,401.00	89.19	313.210	5,304.41	314.27	-2,308.95	2,079.79	0.85	-0.70	-0.49
7,464.00	87.95	312.200	5,305.98	356.98	-2,355.23	2,142.13	2.54	-1.97	-1.60
7,526.00	89.46	312.010	5,307.38	398.54	-2,401.22	2,203.58	2.45	2.44	-0.31
7,589.00	89.12	311.710	5,308.16	440.58	-2,448.13	2,266.06	0.72	-0.54	-0.48
7,652.00	90.07	313.070	5,308.61	483.05	-2,494.66	2,328.47	2.63	1.51	2.16
7,716.00	89.06	312.340	5,309.09	526.45	-2,541.69	2,391.82	1.95	-1.58	-1.14
7,778.00	88.96	313.230	5,310.16	568.56	-2,587.18	2,453.17	1.44	-0.16	1.44
7,841.00	90.74	313.810	5,310.33	611.94	-2,632.87	2,515.40	2.97	2.83	0.92
7,904.00	89.46	312.520	5,310.22	655.03	-2,678.81	2,577.69	2.88	-2.03	-2.05
7,967.00	90.10	312.140	5,310.46	697.46	-2,725.39	2,640.11	1.18	1.02	-0.60
8,029.00	89.03	311.690	5,310.93	738.87	-2,771.52	2,701.60	1.87	-1.73	-0.73
8,092.00	89.70	311.970	5,311.63	780.89	-2,818.46	2,764.09	1.15	1.06	0.44
8,156.00	90.64	313.090	5,311.44	824.15	-2,865.62	2,827.47	2.28	1.47	1.75
8,219.00	90.77	312.800	5,310.67	867.07	-2,911.74	2,889.79	0.50	0.21	-0.46
8,282.00	91.11	313.990	5,309.63	910.34	-2,957.51	2,952.03	1.96	0.54	1.89
8,344.00	90.40	314.120	5,308.81	953.45	-3,002.06	3,013.17	1.16	-1.15	0.21
8,407.00	90.13	313.600	5,308.52	997.10	-3,047.49	3,075.35	0.93	-0.43	-0.83
8,470.00	88.96	312.700	5,309.02	1,040.19	-3,093.45	3,137.63	2.34	-1.86	-1.43
8,533.00	88.39	312.120	5,310.48	1,082.66	-3,139.95	3,200.03	1.29	-0.90	-0.92
8,596.00	88.19	311.960	5,312.36	1,124.83	-3,186.72	3,262.46	0.41	-0.32	-0.25
8,659.00	88.96	312.920	5,313.93	1,167.33	-3,233.19	3,324.85	1.95	1.22	1.52
8,722.00	88.62	312.370	5,315.26	1,210.00	-3,279.52	3,387.21	1.03	-0.54	-0.87
8,785.00	88.19	312.930	5,317.01	1,252.67	-3,325.84	3,449.56	1.12	-0.68	0.89
8,848.00	88.49	314.090	5,318.84	1,296.02	-3,371.51	3,511.76	1.90	0.48	1.84
8,910.00	88.93	314.590	5,320.23	1,339.35	-3,415.84	3,572.84	1.07	0.71	0.81
8,974.00	89.23	314.610	5,321.26	1,384.28	-3,461.41	3,635.86	0.47	0.47	0.03
9,037.00	89.70	314.480	5,321.85	1,428.47	-3,506.31	3,697.90	0.77	0.75	-0.21

Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well 627H
Project:	Nageezi Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Site:	M30 2408	MD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Well:	627H	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)
9,099.00	90.10	313.850	5,321.96	1,471.66	-3,550.78	3,759.03	1.20	0.65	-1.02
9,162.00	90.24	313.730	5,321.77	1,515.26	-3,596.26	3,821.21	0.29	0.22	-0.19
9,225.00	90.10	313.230	5,321.58	1,558.61	-3,641.97	3,883.45	0.82	-0.22	-0.79
9,288.00	89.90	312.870	5,321.58	1,601.62	-3,688.01	3,945.76	0.65	-0.32	-0.57
9,351.00	89.40	311.120	5,321.97	1,643.77	-3,734.83	4,008.22	2.89	-0.79	-2.78
9,414.00	88.52	310.500	5,323.11	1,684.93	-3,782.50	4,070.84	1.71	-1.40	-0.98
9,477.00	88.15	310.010	5,324.94	1,725.63	-3,830.56	4,133.50	0.97	-0.59	-0.78
9,538.00	89.29	312.530	5,326.30	1,765.85	-3,876.40	4,194.06	4.53	1.87	4.13
9,599.00	90.20	313.020	5,326.58	1,807.27	-3,921.17	4,254.43	1.69	1.49	0.80
9,659.00	89.87	312.980	5,326.54	1,848.19	-3,965.05	4,313.78	0.55	-0.55	-0.07
9,720.00	89.09	311.890	5,327.09	1,889.35	-4,010.07	4,374.21	2.20	-1.28	-1.79
9,780.00	88.93	314.570	5,328.13	1,930.44	-4,053.78	4,433.51	4.47	-0.27	4.47
9,840.00	88.59	313.210	5,329.43	1,972.02	-4,097.00	4,492.70	2.34	-0.57	-2.27
9,901.00	88.59	312.900	5,330.93	2,013.65	-4,141.56	4,553.01	0.51	0.00	-0.51
9,961.00	90.27	314.280	5,331.53	2,055.02	-4,185.02	4,612.26	3.62	2.80	2.30
10,022.00	90.40	313.850	5,331.17	2,097.44	-4,228.85	4,672.42	0.74	0.21	-0.70
10,083.00	89.70	314.340	5,331.12	2,139.89	-4,272.66	4,732.58	1.40	-1.15	0.80
10,144.00	88.86	314.270	5,331.88	2,182.49	-4,316.31	4,792.69	1.38	-1.38	-0.11
10,204.00	88.69	312.980	5,333.16	2,223.88	-4,359.73	4,851.93	2.17	-0.28	-2.15
10,265.00	89.66	314.990	5,334.04	2,266.23	-4,403.61	4,912.09	3.66	1.59	3.30
10,326.00	89.90	315.330	5,334.28	2,309.49	-4,446.62	4,972.05	0.68	0.39	0.56
10,386.00	89.80	314.730	5,334.43	2,351.94	-4,489.03	5,031.05	1.01	-0.17	-1.00
10,446.00	88.76	314.760	5,335.19	2,394.17	-4,531.64	5,090.10	1.73	-1.73	0.05
10,507.00	88.46	314.100	5,336.67	2,436.86	-4,575.19	5,150.18	1.19	-0.49	-1.08
10,568.00	88.59	314.080	5,338.24	2,479.29	-4,618.98	5,210.32	0.22	0.21	-0.03
10,629.00	88.49	314.300	5,339.79	2,521.79	-4,662.71	5,270.44	0.40	-0.16	0.36
10,689.00	87.11	312.730	5,342.10	2,563.07	-4,706.19	5,329.66	3.48	-2.30	-2.62
10,750.00	88.02	311.830	5,344.69	2,604.07	-4,751.28	5,390.05	2.10	1.49	-1.48
10,811.00	89.60	311.900	5,345.95	2,644.77	-4,796.69	5,450.54	2.59	2.59	0.11
10,871.00	89.63	311.390	5,346.36	2,684.64	-4,841.53	5,510.08	0.85	0.05	-0.85
10,932.00	89.83	310.850	5,346.65	2,724.76	-4,887.48	5,570.68	0.94	0.33	-0.89
10,993.00	89.83	312.950	5,346.83	2,765.49	-4,932.88	5,631.18	3.44	0.00	3.44
11,055.00	89.36	312.950	5,347.26	2,807.74	-4,978.26	5,692.51	0.76	-0.76	0.00
11,116.00	89.16	312.200	5,348.05	2,849.00	-5,023.18	5,752.91	1.27	-0.33	-1.23
11,177.00	89.26	311.950	5,348.89	2,889.87	-5,068.45	5,813.38	0.44	0.16	-0.41
11,237.00	88.93	311.270	5,349.84	2,929.71	-5,113.31	5,872.92	1.26	-0.55	-1.13
11,298.00	90.07	313.300	5,350.37	2,970.75	-5,158.43	5,933.36	3.82	1.87	3.33
11,359.00	89.90	313.260	5,350.39	3,012.57	-5,202.84	5,993.65	0.29	-0.28	-0.07
11,421.00	89.36	312.320	5,350.79	3,054.69	-5,248.33	6,055.01	1.75	-0.87	-1.52
11,482.00	90.17	313.290	5,351.04	3,096.13	-5,293.09	6,115.38	2.07	1.33	1.59
11,542.00	90.17	312.800	5,350.86	3,137.09	-5,336.94	6,174.72	0.82	0.00	-0.82
11,603.00	89.36	311.620	5,351.11	3,178.07	-5,382.12	6,235.18	2.35	-1.33	-1.93
11,664.00	88.66	310.950	5,352.17	3,218.31	-5,427.95	6,295.75	1.59	-1.15	-1.10

Scientific Drilling, Intl Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well 627H
Project:	Nageezi Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Site:	M30 2408	MD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Well:	627H	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)
11,725.00	89.66	312.260	5,353.06	3,258.81	-5,473.55	6,356.28	2.70	1.64	2.15
11,786.00	89.87	313.400	5,353.31	3,300.28	-5,518.29	6,416.64	1.90	0.34	1.87
11,847.00	90.13	312.500	5,353.31	3,341.84	-5,562.93	6,476.99	1.54	0.43	-1.48
11,908.00	88.93	311.350	5,353.81	3,382.60	-5,608.32	8,537.48	2.72	-1.97	-1.89
11,970.00	88.59	310.520	5,355.15	3,423.21	-5,655.14	6,599.08	1.45	-0.55	-1.34
12,031.00	89.70	311.470	5,356.06	3,463.22	-5,701.18	6,659.69	2.39	1.82	1.56
12,092.00	90.84	314.350	5,355.78	3,504.74	-5,745.85	6,720.03	5.08	1.87	4.72
12,153.00	90.84	315.200	5,354.88	3,547.70	-5,789.15	6,780.06	1.39	0.00	1.39
12,213.00	90.40	314.030	5,354.23	3,589.84	-5,831.85	6,839.13	2.08	-0.73	-1.95
12,275.00	90.27	313.160	5,353.87	3,632.59	-5,876.76	6,900.36	1.42	-0.21	-1.40
12,336.00	89.60	311.370	5,353.94	3,673.62	-5,921.90	6,960.81	3.13	-1.10	-2.93
12,396.00	89.36	313.510	5,354.48	3,714.10	-5,966.17	7,020.24	3.59	-0.40	3.57
12,456.00	88.99	314.300	5,355.35	3,755.70	-6,009.40	7,079.43	1.45	-0.62	1.32
12,517.00	88.93	313.210	5,356.45	3,797.88	-6,053.45	7,139.64	1.79	-0.10	-1.79
12,577.00	88.96	312.800	5,357.56	3,838.80	-6,097.32	7,198.98	0.69	0.05	-0.68
12,637.00	88.99	312.260	5,358.63	3,879.35	-6,141.53	7,258.39	0.90	0.05	-0.90
12,698.00	88.93	312.400	5,359.74	3,920.42	-6,186.61	7,318.82	0.25	-0.10	0.23
12,758.00	88.99	313.850	5,360.83	3,961.43	-6,230.40	7,378.14	2.42	0.10	2.42
12,819.00	89.06	313.820	5,361.87	4,003.67	-6,274.39	7,438.33	0.12	0.11	-0.05
12,879.00	89.23	315.080	5,362.76	4,045.68	-6,317.22	7,497.43	2.12	0.28	2.10
12,941.00	88.86	314.220	5,363.80	4,089.25	-6,361.32	7,558.46	1.51	-0.60	-1.39
13,002.00	89.50	313.710	5,364.67	4,131.59	-6,405.22	7,618.64	1.34	1.05	-0.84
13,063.00	89.63	314.750	5,365.13	4,174.14	-6,448.93	7,678.77	1.72	0.21	1.70
13,123.00	90.03	314.250	5,365.31	4,216.19	-6,491.72	7,737.86	1.07	0.67	-0.83
13,184.00	90.27	314.620	5,365.15	4,258.90	-6,535.28	7,797.96	0.72	0.39	0.61
13,244.00	91.65	315.440	5,364.14	4,301.34	-6,577.68	7,856.95	2.68	2.30	1.37
13,305.00	91.75	314.730	5,362.33	4,344.52	-6,620.73	7,916.90	1.17	0.16	-1.16
13,366.00	91.17	313.990	5,360.78	4,387.15	-6,664.32	7,976.99	1.54	-0.95	-1.21
13,427.00	90.80	312.550	5,359.73	4,428.96	-6,708.73	8,037.27	2.44	-0.61	-2.36
13,488.00	91.07	313.250	5,358.74	4,470.48	-6,753.41	8,097.62	1.23	0.44	1.15
13,549.00	91.04	314.280	5,357.61	4,512.66	-6,797.46	8,157.82	1.69	-0.05	1.69
13,610.00	88.62	313.410	5,357.79	4,554.91	-6,841.45	8,218.02	4.22	-3.97	-1.43
13,670.00	89.03	313.070	5,359.02	4,596.01	-6,885.15	8,277.32	0.89	0.68	-0.57
13,731.00	89.46	312.410	5,359.83	4,637.40	-6,929.94	8,337.69	1.29	0.70	-1.08
13,791.00	90.50	312.740	5,359.85	4,678.00	-6,974.13	8,397.10	1.82	1.73	0.55
13,852.00	89.90	315.390	5,359.64	4,720.41	-7,017.95	8,457.26	4.45	-0.98	4.34
13,912.00	89.73	314.380	5,359.83	4,762.76	-7,060.46	8,516.29	1.71	-0.28	-1.68
13,972.00	89.19	313.530	5,360.40	4,804.40	-7,103.66	8,575.48	1.68	-0.90	-1.42
14,033.00	89.36	313.100	5,361.17	4,846.24	-7,148.04	8,635.76	0.76	0.28	-0.70
14,093.00	89.63	312.140	5,361.70	4,886.87	-7,192.18	8,695.17	1.66	0.45	-1.60
14,154.00	90.80	312.150	5,361.47	4,927.80	-7,237.41	8,755.63	1.92	1.92	0.02
14,215.00	90.34	311.690	5,360.86	4,968.55	-7,282.80	8,816.13	1.07	-0.75	-0.75
14,275.00	89.66	311.010	5,360.86	5,008.19	-7,327.84	8,875.70	1.60	-1.13	-1.13

Scientific Drilling, Intl

Survey Report

Company:	DJR Operating	Local Co-ordinate Reference:	Well 627H
Project:	Nageezi Unit	TVD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Site:	M30 2408	MD Reference:	GL 6801' & RKB 14' @ 6815.00usft (Aztec 920)
Well:	627H	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)
14,336.00	88.89	309.790	5,361.63	5,047.72	-7,374.29	8,936.38	2.36	-1.26	-2.00
14,398.00	89.13	309.270	5,362.70	5,087.18	-7,422.10	8,998.14	0.92	0.39	-0.84
14,445.00	89.46	308.610	5,363.28	5,116.71	-7,458.65	9,045.00	1.57	0.70	-1.40
14,500.00	89.46	308.610	5,363.80	5,151.03	-7,501.63	9,099.86	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
627H toe rev B	0.00	0.000	5,356.00	5,148.74	-7,474.99	1,926,807.12	2,745,907.89	36.2953252	-107.7559064
- actual wellpath misses target center by 16.67usft at 14477.68usft MD (5363.59 TVD, 5137.11 N, -7484.19 E)									
- Circle (radius 100.00)									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
438.00	437.97	-2.66	-3.40	First SDI Surface MWD Survey
4,616.00	4,456.81	-1,012.81	-451.30	Last SDI Surface MWD Survey
4,665.00	4,503.82	-1,025.54	-456.64	First SDI Curve MWD Survey
5,801.00	5,268.25	-742.65	-1,112.76	Last SDI Curve MWD Survey
5,896.00	5,280.00	-688.68	-1,190.02	First SDI Lateral MWD Survey
14,445.00	5,363.28	5,116.71	-7,458.65	Last SDI Lateral MWD Survey
14,500.00	5,363.80	5,151.03	-7,501.63	Projection to TD

Checked By: _____ Approved By: _____ Date: _____