

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

Form C-104
Revised August 1, 2011

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 30-045-35763	⁵ Pool Name Nageezi Unit; Mancos (Oil)		⁶ Pool Code 98080
⁷ Property Code 325268	⁸ Property Name Nageezi Unit		⁹ Well Number 514H

II. ¹⁰ Surface Location

Ul or lot no. P	Section 09	Township 23N	Range 09W	Lot Idn	Feet from the 1235'	North/South Line South	Feet from the 824'	East/West line East	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. B	Section 05	Township 23N	Range 09W	Lot Idn	Feet from the 1134'	North/South line North	Feet from the 1962'	East/West line East	County San Juan
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 05/03/21	²² Ready Date 03/08/22	²³ TD 14,905' MD 4,912' TVD	²⁴ PBTD 14,886 MD 4,912' TVD	²⁵ Perforations 5,442'-14,836' MD 4,841'- 4,912' TVD Frac Sleeve @ 14,860'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
12.25		9.625" 36# J55		352'	109
8.75		7" 26# J55		5,214'	615
6.125		4.5" 11.6# P110		TOL: 4,885' BOL: 14,900'	859

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>PATRICIA MARTINEZ</i>		
Printed name: Shaw-Marie Ford			Title: <i>PETROLEUM SPECIALIST</i>		
Title: Regulatory Specialist			Approval Date: <i>3/4/2022</i>		
E-mail Address: sford@djrlle.com			<i>RT EXPIRES 6/4/2022</i>		
Date: 02/10/22		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: (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 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

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

Submit one copy to appropriate
District Office

☒ AS-DRILLED
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35763	² Pool Code 98080	³ Pool Name NAGEEZI UNIT MANCOS OIL POOL
⁴ Property Code 325268	⁵ Property Name NAGEEZI UNIT	⁶ Well Number 514H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6805'

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	9	23N	9W		1235'	SOUTH	824'	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
B	5	23N	9W		1134'	NORTH	1962'	EAST	SAN JUAN

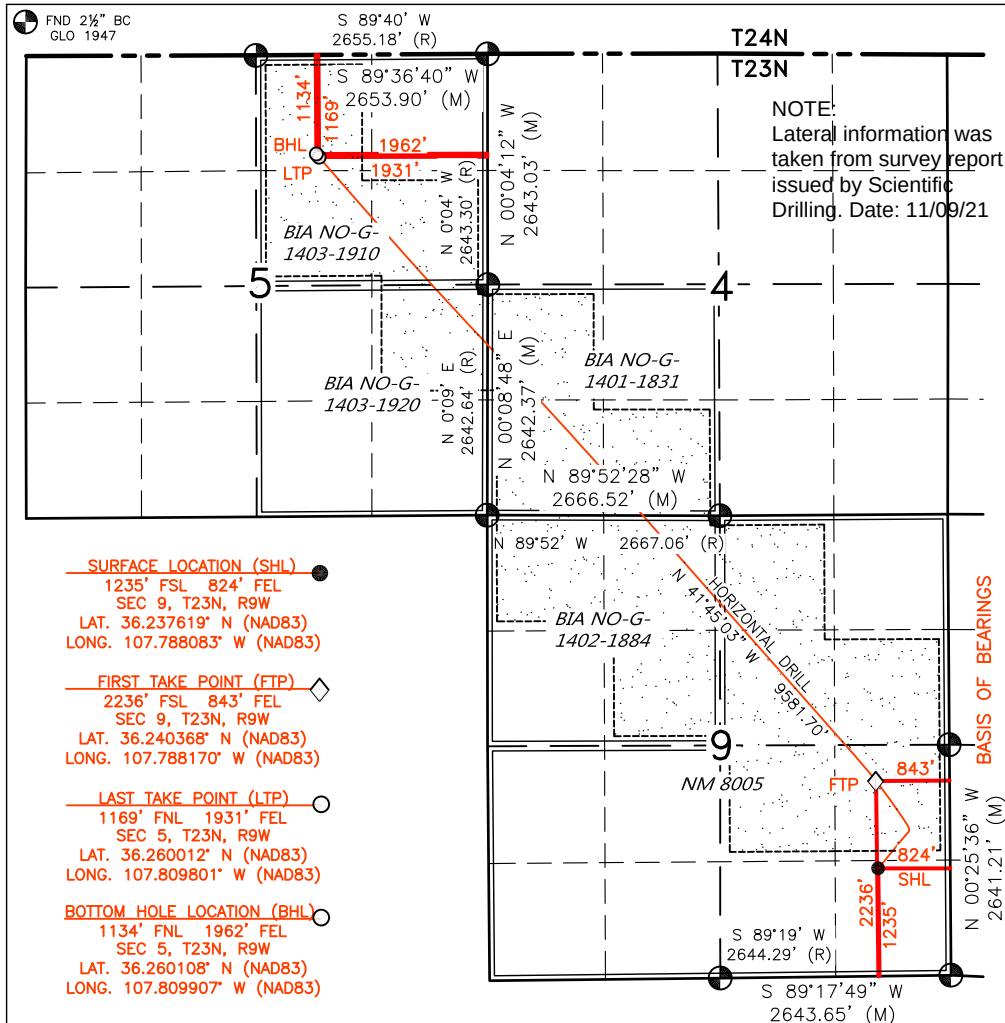
¹² Dedicated Acres
PENETRATED SPACING UNIT;
SEC 9: NE/SE, NW/SE, SE/NE, SW/NE, NW/NE,
SE/NW, NE/NW & NW/NW (320 AC.); SEC 4: SE/SW,
SW/SW & NW/SW (120 AC.); SEC 5: NE/SE, SE/NE,
SW/NE & NW/NE (160.89 AC.) = 600.89 ACRES

¹³ Joint or Infill¹⁴ Consolidation Code¹⁵ Order No.

R-13856 R-13856A

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.

Shaw-Marie Ford 01/21/22
Signature Date

Shaw-Marie Ford
Printed Name

sford@djrlc.com
E-mail Address

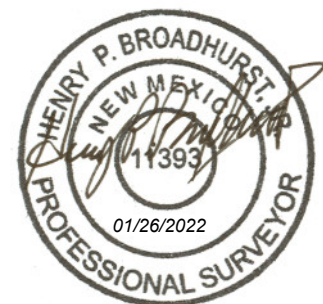
SURVEYOR CERTIFICATION

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.

JANUARY 26, 2022

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number

11393

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

☒ AS-DRILLED
☐ AMENDED REPORT

NAGEEZI UNIT #514H

PPP-1 (FIRST TAKE POINT) NM 8005
2236' FSL, 843' FEL

LOCATED IN THE NE/SE OF SECTION 9,
T23N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.237619°N LONGITUDE: 107.788083°W

PPP-2 BIA NO-G-1402-1884
1102' FNL, 2665' FWL

LOCATED IN THE NE/NW OF SECTION 9,
T23N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.245969°N LONGITUDE: 107.794227°W

PPP-3 BIA NO-G-1401-1831
1' FSL, 1785' FWL

LOCATED IN THE SE/SW OF SECTION 4,
T23N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.248729°N LONGITUDE: 107.797219°W

PPP-4 BIA NO-G-1403-1920
1953' FSL, 1' FEL

LOCATED IN THE NE/SE OF SECTION 5,
T23N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.254103°N LONGITUDE: 107.803256°W

PPP-5 BIA NO-G-1403-1910
2643' FNL, 639' FEL

LOCATED IN THE SE/NE OF SECTION 5,
T23N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.255987°N LONGITUDE: 107.805413°W

PPP-6 (LAST TAKE POINT) BIA NO-G-1403-1910
1169' FNL, 1931' FEL

LOCATED IN THE NW/NE OF SECTION 5,
T23N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO
LATITUDE: 36.260012°N LONGITUDE: 107.809801°W



DJR Operating

Nageezi Unit

P09 2309

514H - Slot 2

Original Drilling

Design: Original Drilling

Standard Survey Report

09 November, 2021



www.scientificdrilling.com



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 514H - Slot 2
Project:	Nageezi Unit	TVD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Site:	P09 2309	MD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Well:	# 514H	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		P09 2309			
Site Position:		Northing:	1,905,783.38 usft	Latitude:	36.23758800
From:	Lat/Long	Easting:	2,736,419.66 usft	Longitude:	-107.78813800
Position Uncertainty:	0 ft	Slot Radius:	13.20 in	Grid Convergence:	0.03 °

Well	# 514H - Slot 2					
Well Position	+N/-S	0 ft	Northing:	1,905,794.67 usft	Latitude:	36.23761900
	+E/-W	0 ft	Easting:	2,736,435.88 usft	Longitude:	-107.78808300
Position Uncertainty		0 ft	Wellhead Elevation:	ft	Ground Level:	6805 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021_FILE	11/2/2021	8.65	62.72	49,202.50000000

Design	Original Drilling				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0	0	0	321.77	

Survey Program	Date	11/9/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
448	4099	Survey #1 - Surface MWD Survey (Origin	MWD+HDGM	OWSG MWD + HDGM	
4179	5175	Survey #2 - Curve MWD Survey (Original	MWD+HDGM	OWSG MWD + HDGM	
5269	14,905	Survey #3 - Lateral MWD Survey (Origina	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0	0.00	0.00	0	0	0	0	0.00	0.00	0.00	
448	1.27	213.09	448	-4	-3	-2	0.28	0.28	0.00	
540	1.17	20.23	540	-4	-3	-1	2.64	-0.11	181.67	
631	3.17	23.42	631	-1	-2	0	2.20	2.20	3.51	
724	6.22	31.36	724	6	2	3	3.35	3.28	8.54	
814	8.71	38.47	813	15	9	7	2.95	2.77	7.90	
906	8.52	39.90	904	26	18	10	0.31	-0.21	1.55	
999	8.02	37.95	996	36	26	12	0.62	-0.54	-2.10	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 514H - Slot 2
Project:	Nageezi Unit	TVD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Site:	P09 2309	MD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Well:	# 514H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Grand Junction

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1092	9.22	41.11	1088	47	35	15	1.39	1.29	3.40	
1183	8.97	40.20	1178	58	44	18	0.32	-0.27	-1.00	
1276	9.21	38.26	1269	69	53	21	0.42	0.26	-2.09	
1367	9.01	35.99	1359	81	62	25	0.45	-0.22	-2.49	
1457	8.97	40.65	1448	92	71	28	0.81	-0.04	5.18	
1550	8.51	35.64	1540	103	80	32	0.96	-0.49	-5.39	
1641	9.61	39.35	1630	114	88	35	1.37	1.21	4.08	
1732	9.19	37.36	1720	126	98	39	0.58	-0.46	-2.19	
1825	9.92	43.45	1811	138	108	42	1.34	0.78	6.55	
1918	9.83	41.69	1903	149	118	44	0.34	-0.10	-1.89	
2008	10.06	40.30	1992	161	129	47	0.37	0.26	-1.54	
2103	10.18	41.58	2085	174	140	50	0.27	0.13	1.35	
2198	9.85	39.62	2179	186	150	53	0.50	-0.35	-2.06	
2294	10.36	41.37	2273	199	161	57	0.62	0.53	1.82	
2390	10.73	41.59	2368	212	173	60	0.39	0.39	0.23	
2484	9.51	42.79	2460	224	184	63	1.32	-1.30	1.28	
2579	9.12	41.51	2554	236	194	65	0.46	-0.41	-1.35	
2674	7.95	40.07	2648	247	203	68	1.25	-1.23	-1.52	
2769	7.37	40.80	2742	256	212	70	0.62	-0.61	0.77	
2864	6.54	36.67	2836	265	219	73	1.02	-0.87	-4.35	
2959	8.17	35.50	2931	275	226	76	1.72	1.72	-1.23	
3054	8.51	46.54	3025	285	235	79	1.72	0.36	11.62	
3149	8.31	44.95	3119	295	245	80	0.32	-0.21	-1.67	
3244	9.99	40.95	3212	306	255	82	1.89	1.77	-4.21	
3339	9.88	39.62	3306	319	266	86	0.27	-0.12	-1.40	
3434	8.86	35.07	3400	331	275	90	1.33	-1.07	-4.79	
3529	9.93	40.16	3493	343	285	93	1.42	1.13	5.36	
3624	8.30	32.51	3587	355	294	97	2.13	-1.72	-8.05	
3719	9.90	38.87	3681	367	303	101	1.99	1.68	6.69	
3814	8.67	39.75	3775	379	312	105	1.30	-1.29	0.93	
3910	8.77	42.86	3870	390	322	107	0.50	0.10	3.24	
4004	8.80	38.38	3963	401	331	110	0.73	0.03	-4.77	
4099	8.35	38.01	4056	412	340	113	0.48	-0.47	-0.39	
4179	8.52	39.57	4136	421	347	116	0.36	0.21	1.95	
4274	9.24	16.84	4229	434	354	122	3.74	0.76	-23.93	
4369	16.35	341.15	4322	454	352	139	10.86	7.48	-37.57	
4464	24.57	334.70	4411	485	339	171	8.96	8.65	-6.79	
4559	31.61	327.28	4495	523	317	215	8.26	7.41	-7.81	
4654	38.28	327.40	4573	569	288	269	7.02	7.02	0.13	
4749	45.74	325.00	4643	622	252	332	8.03	7.85	-2.53	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 514H - Slot 2
Project:	Nageezi Unit	TVD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Site:	P09 2309	MD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Well:	# 514H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Grand Junction

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4844	54.52	324.88	4704	682	211	405	9.24	9.24	-0.13	
4939	63.84	324.87	4753	748	164	486	9.81	9.81	-0.01	
5034	69.59	324.44	4790	819	113	574	6.07	6.05	-0.45	
5129	75.14	323.44	4819	892	60	664	5.93	5.84	-1.05	
5175	79.67	321.80	4829	928	33	709	10.44	9.85	-3.57	
5269	85.49	320.79	4841	1001	-26	802	6.28	6.19	-1.07	
5364	90.94	321.21	4844	1075	-85	897	5.75	5.74	0.44	
5458	92.58	321.37	4841	1148	-144	991	1.75	1.74	0.17	
5551	91.58	320.82	4838	1220	-202	1084	1.23	-1.08	-0.59	
5646	91.18	320.33	4836	1294	-263	1179	0.67	-0.42	-0.52	
5740	89.46	319.61	4835	1366	-323	1273	1.98	-1.83	-0.77	
5834	90.34	319.36	4835	1437	-384	1367	0.97	0.94	-0.27	
5929	88.32	319.63	4836	1509	-446	1462	2.15	-2.13	0.28	
6023	89.73	319.61	4838	1581	-507	1555	1.50	1.50	-0.02	
6118	88.93	320.32	4839	1654	-568	1650	1.13	-0.84	0.75	
6212	89.23	319.51	4841	1726	-629	1744	0.92	0.32	-0.86	
6307	89.80	318.00	4841	1797	-691	1839	1.70	0.60	-1.59	
6400	87.99	315.16	4843	1864	-755	1932	3.62	-1.95	-3.05	
6493	88.32	316.10	4846	1931	-820	2024	1.07	0.35	1.01	
6588	88.99	317.95	4848	2000	-885	2119	2.07	0.71	1.95	
6682	89.40	318.57	4850	2071	-947	2213	0.79	0.44	0.66	
6776	88.99	316.82	4851	2140	-1011	2306	1.91	-0.44	-1.86	
6870	89.06	316.55	4853	2208	-1075	2400	0.30	0.07	-0.29	
6964	90.44	317.58	4853	2277	-1139	2494	1.83	1.47	1.10	
7058	91.68	321.20	4851	2349	-1200	2588	4.07	1.32	3.85	
7152	90.37	321.99	4850	2422	-1259	2682	1.63	-1.39	0.84	
7246	91.61	321.96	4848	2496	-1317	2776	1.32	1.32	-0.03	
7340	89.87	321.77	4847	2570	-1375	2870	1.86	-1.85	-0.20	
7435	87.55	321.25	4849	2645	-1434	2965	2.50	-2.44	-0.55	
7529	88.72	319.31	4852	2717	-1494	3058	2.41	1.24	-2.06	
7623	89.60	318.55	4853	2788	-1555	3152	1.24	0.94	-0.81	
7717	90.44	317.79	4853	2858	-1618	3246	1.21	0.89	-0.81	
7810	89.80	317.02	4853	2926	-1681	3339	1.08	-0.69	-0.83	
7905	89.56	316.73	4854	2995	-1746	3434	0.40	-0.25	-0.31	
7999	89.53	315.33	4854	3063	-1811	3527	1.49	-0.03	-1.49	
8093	88.72	314.87	4856	3130	-1878	3620	0.99	-0.86	-0.49	
8187	89.33	315.85	4857	3197	-1944	3714	1.23	0.65	1.04	
8282	88.19	315.22	4860	3264	-2010	3808	1.37	-1.20	-0.66	
8376	88.59	315.73	4862	3331	-2076	3902	0.69	0.43	0.54	
8471	89.46	316.67	4864	3400	-2142	3996	1.35	0.92	0.99	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 514H - Slot 2
Project:	Nageezi Unit	TVD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Site:	P09 2309	MD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Well:	# 514H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Grand Junction

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8564	88.83	317.56	4865	3468	-2205	4089	1.17	-0.68	0.96
8659	88.93	317.44	4867	3538	-2269	4184	0.16	0.11	-0.13
8753	88.59	317.76	4869	3607	-2333	4277	0.50	-0.36	0.34
8847	88.83	318.04	4871	3677	-2396	4371	0.39	0.26	0.30
8941	89.23	318.44	4873	3747	-2458	4465	0.60	0.43	0.43
9035	88.69	319.01	4874	3818	-2520	4559	0.84	-0.57	0.61
9129	89.93	318.94	4876	3889	-2582	4653	1.32	1.32	-0.07
9224	88.36	319.97	4877	3961	-2644	4747	1.98	-1.65	1.08
9318	89.40	319.56	4879	4033	-2704	4841	1.19	1.11	-0.44
9413	88.76	320.31	4880	4105	-2766	4936	1.04	-0.67	0.79
9507	88.22	321.85	4883	4179	-2825	5030	1.74	-0.57	1.64
9601	88.69	321.65	4885	4252	-2883	5124	0.54	0.50	-0.21
9695	87.75	321.25	4888	4326	-2941	5218	1.09	-1.00	-0.43
9790	91.38	322.45	4889	4401	-3000	5313	4.02	3.82	1.26
9884	89.70	320.26	4888	4474	-3059	5407	2.94	-1.79	-2.33
9978	87.78	318.44	4890	4545	-3120	5501	2.81	-2.04	-1.94
10,073	89.19	318.67	4893	4616	-3183	5596	1.50	1.48	0.24
10,167	86.41	316.39	4896	4686	-3246	5690	3.82	-2.96	-2.43
10,261	87.35	315.85	4901	4753	-3311	5783	1.15	1.00	-0.57
10,353	88.05	315.24	4905	4819	-3376	5874	1.01	0.76	-0.66
10,445	89.40	314.62	4907	4884	-3441	5966	1.61	1.47	-0.67
10,538	88.39	315.39	4909	4950	-3506	6058	1.37	-1.09	0.83
10,630	90.03	315.48	4910	5015	-3571	6149	1.79	1.78	0.10
10,721	89.76	318.11	4910	5082	-3633	6240	2.91	-0.30	2.89
10,812	88.96	319.39	4911	5150	-3693	6331	1.66	-0.88	1.41
10,905	91.41	319.94	4911	5221	-3753	6424	2.70	2.63	0.59
10,996	90.54	319.61	4910	5290	-3812	6515	1.02	-0.96	-0.36
11,088	89.56	318.75	4910	5360	-3872	6607	1.42	-1.07	-0.93
11,179	90.27	317.92	4910	5428	-3933	6698	1.20	0.78	-0.91
11,272	90.27	318.50	4909	5497	-3995	6790	0.62	0.00	0.62
11,372	91.51	319.82	4908	5573	-4060	6890	1.81	1.24	1.32
11,464	91.51	319.58	4905	5643	-4120	6982	0.26	0.00	-0.26
11,556	89.13	317.71	4905	5712	-4180	7074	3.29	-2.59	-2.03
11,648	88.59	316.63	4907	5780	-4243	7166	1.31	-0.59	-1.17
11,740	89.53	316.74	4908	5846	-4306	7257	1.03	1.02	0.12
11,833	90.24	316.27	4908	5914	-4370	7350	0.92	0.76	-0.51
11,925	90.60	315.28	4908	5980	-4434	7441	1.14	0.39	-1.08
12,016	91.01	314.86	4906	6044	-4499	7532	0.64	0.45	-0.46
12,108	90.91	315.41	4905	6109	-4563	7623	0.61	-0.11	0.60
12,200	90.30	315.29	4904	6175	-4628	7715	0.68	-0.66	-0.13



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 514H - Slot 2
Project:	Nageezi Unit	TVD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Site:	P09 2309	MD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Well:	# 514H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Grand Junction

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,293	90.94	316.17	4903	6241	-4693	7807	1.17	0.69	0.95	
12,384	89.23	315.14	4903	6307	-4757	7897	2.19	-1.88	-1.13	
12,476	89.09	315.73	4904	6372	-4821	7989	0.66	-0.15	0.64	
12,568	88.96	316.16	4906	6438	-4885	8080	0.49	-0.14	0.47	
12,660	89.73	317.07	4907	6505	-4948	8172	1.30	0.84	0.99	
12,753	90.07	317.53	4907	6573	-5011	8265	0.62	0.37	0.49	
12,845	90.34	318.81	4906	6642	-5073	8357	1.42	0.29	1.39	
12,937	90.84	318.96	4906	6711	-5133	8448	0.57	0.54	0.16	
13,029	89.97	316.11	4905	6779	-5195	8540	3.24	-0.95	-3.10	
13,123	91.04	318.08	4904	6848	-5259	8634	2.38	1.14	2.10	
13,215	91.14	318.08	4902	6916	-5321	8726	0.11	0.11	0.00	
13,306	91.71	317.66	4900	6984	-5382	8816	0.78	0.63	-0.46	
13,398	90.47	318.28	4898	7052	-5443	8908	1.51	-1.35	0.67	
13,491	89.33	319.18	4898	7122	-5505	9001	1.56	-1.23	0.97	
13,583	89.46	318.92	4899	7192	-5565	9093	0.32	0.14	-0.28	
13,675	90.24	318.64	4900	7261	-5626	9185	0.90	0.85	-0.30	
13,767	88.42	319.30	4901	7330	-5686	9277	2.10	-1.98	0.72	
13,859	88.66	318.28	4903	7399	-5747	9369	1.14	0.26	-1.11	
13,952	89.19	318.21	4905	7469	-5809	9461	0.57	0.57	-0.08	
14,044	89.70	316.82	4906	7537	-5871	9553	1.61	0.55	-1.51	
14,137	88.05	317.78	4908	7605	-5934	9646	2.05	-1.77	1.03	
14,229	88.59	317.37	4910	7673	-5996	9738	0.74	0.59	-0.45	
14,321	90.74	320.64	4911	7742	-6056	9829	4.25	2.34	3.55	
14,411	91.48	320.84	4909	7812	-6113	9919	0.85	0.82	0.22	
14,503	89.66	320.68	4908	7883	-6171	10,011	1.99	-1.98	-0.17	
14,596	88.82	319.89	4909	7955	-6231	10,104	1.24	-0.90	-0.85	
14,688	88.39	318.72	4912	8024	-6291	10,196	1.35	-0.47	-1.27	
14,779	90.07	319.02	4913	8093	-6350	10,287	1.88	1.85	0.33	
14,858	90.34	318.33	4913	8152	-6403	10,366	0.94	0.34	-0.87	
14,905	90.34	318.33	4912	8187	-6434	10,413	0.00	0.00	0.00	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 514H - Slot 2
Project:	Nageezi Unit	TVD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Site:	P09 2309	MD Reference:	GL 6805' & RKB 26' @ 6831ft (H&P 443)
Well:	# 514H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Grand Junction

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
514H 85° Casing	0.00	0.00	4838	934	46	1,906,728.80	2,736,481.84	36.24018507	-107.78792566
- actual wellpath misses target center by 17ft at 5173ft MD (4829 TVD, 927 N, 34 E)									
- Point									
514H Heel	0.00	0.00	4853	1121	-111	1,906,915.77	2,736,324.45	36.24069890	-107.78845910
- actual wellpath misses target center by 14ft at 5416ft MD (4843 TVD, 1115 N, -118 E)									
- Circle (radius 50)									
514H Toe	0.00	0.00	4921	8161	-6430	1,913,952.76	2,730,002.16	36.26003620	-107.80989310
- actual wellpath misses target center by 17ft at 14883ft MD (4912 TVD, 8171 N, -6419 E)									
- Circle (radius 100)									

Design Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment	
448	448	-4	-3	First Surface MWD Survey	
4099	4056	412	340	Last Surface MWD Survey	
4179	4136	421	347	First Curve MWD Survey	
5175	4829	928	33	Last Curve MWD Survey	
5269	4841	1001	-26	First Lateral MWD Survey	
14,858	4913	8152	-6403	Last Lateral MWD Survey	
14,905	4912	8187	-6434	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____

**Directional Survey Certification**

7237 Barton Drive
Casper, WY 82604
(307) 472-6621

Operator	DJR Energy
Well Name & No.	Nageezi P09 2309 514H
County & State	San Juan, NM
SDI Job No.	OP.031062
Rig	H&P 443

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 448 feet to a measured depth of 14,905 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

9-Nov-21

Date

Janie Collins

Contract Well Planner
Scientific Drilling International

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

ACKNOWLEDGMENTS

Action 80512

ACKNOWLEDGMENTS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 80512
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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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 80512

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 80512
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 6/4/2022	3/4/2022