

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

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address DJR Operating, LLC 1 Road 3263 Aztec, NM 87410		² OGRID Number 371838	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30-045-38242	⁵ Pool Name Bettonnie Tsosie Wash; Mancos (Oil)		⁶ Pool Code 98175
⁷ Property Code 325179	⁸ Property Name Bettonnie Tsosie Wash Unit		⁹ Well Number 509H

II. ¹⁰ Surface Location

Ul or lot no. G	Section 34	Township 23N	Range 08W	Lot Idn	Feet from the 1486'	North/South Line North	Feet from the 2367'	East/West line East	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. J	Section 28	Township 23N	Range 08W	Lot Idn	Feet from the 2399'	North/South line South	Feet from the 1478'	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	O
	6500 Townbridge Drive, El Paso, TX 79905	
151618	Enterprise Field Services, LLC	G
	Post Office Box 4503, Houston, TX 77001	
	~Gas will be flared during flowback & until N2 & O2 is cleaned from the wellbore~	

IV. Well Completion Data

²¹ Spud Date 07/13/21	²² Ready Date 04/22/21 4/22/2022	²³ TD 10,586' MD 4,868' TVD	²⁴ PBDT 10,568' MD 4,868' TVD	²⁵ Perforations 5,434'-10,511' MD 4,874'- 4,869' TVD Frac Sleeve @ 10,546'	²⁶ DHC, MC	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
12.25		9.625" 36# J55		355'		109
8.75		7" 26# J55		5,136'		615
6.125		4.5" 11.6# P110		TOL: 4,943' BOL: 10,582'		477

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		
Printed name: Shaw-Marie Ford			Approved by: <i>PATRICIA MARTINEZ</i>		
Title: Regulatory Specialist			Title: <i>PETROLEUM SPECIALIST</i>		
E-mail Address: sford@djrlle.com			Approval Date: <i>5/2/2022</i>		
Date: 03/17/22		Phone: 505-716-3297	<i>RT EXPIRES 7/22/2022</i>		

DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 748-0720

DISTRICT II

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

DISTRICT III

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

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, 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

☐ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38242	² Pool Code 98175	³ Pool Name BETONNIE TSOSIE WASH UNIT MANCOS OIL POOL
⁴ Property Code 325179	⁵ Property Name BETONNIE TSOSIE WASH UNIT	⁶ Well Number 509H
⁷ OGRID No. 371838	⁸ Operator Name DJR OPERATING, LLC	⁹ Elevation 6834'

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
G	34	23N	8W		1486'	NORTH	2367'	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
J	28	23N	8W		2399'	SOUTH	1478'	EAST	SAN JUAN

¹² Dedicated Acres PENETRATED SPACING UNIT;
SEC 34: SE/NW, NE/NW & NW/NW (120 AC.);
SEC 27: SE/SW, SW/SW & NW/SW (120 AC.);
SE/SE, NE/SE & NW/SE (120 AC.) = 360 ACRES

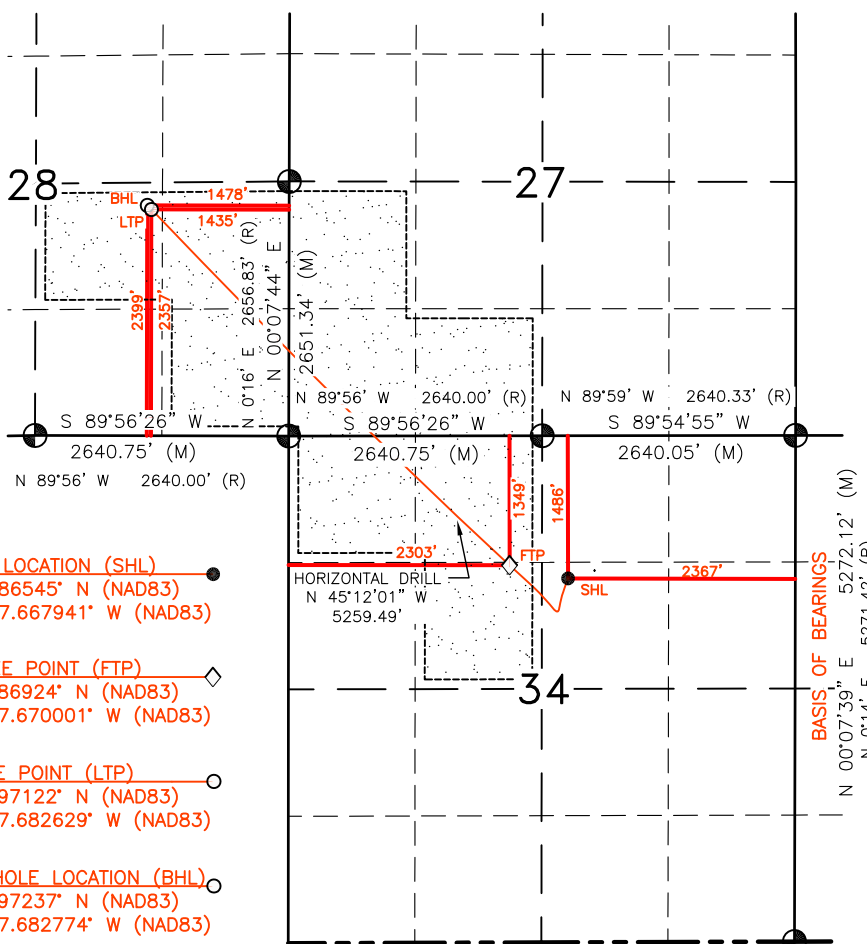
¹³ Joint or Infill¹⁴ Consolidation Code¹⁵ Order No.

R-13930 R-13930A

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



SURFACE LOCATION (SHL)
LAT. 36.186545° N (NAD83)
LONG. 107.667941° W (NAD83)

FIRST TAKE POINT (FTP)
LAT. 36.186924° N (NAD83)
LONG. 107.670001° W (NAD83)

LAST TAKE POINT (LTP)
LAT. 36.197122° N (NAD83)
LONG. 107.682629° W (NAD83)

BOTTOM HOLE LOCATION (BHL)
LAT. 36.197237° N (NAD83)
LONG. 107.682774° W (NAD83)

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 02/04/22
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.

AUGUST 31, 2021

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number

11393

**Directional Survey Certification**

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

Operator	DJR Energy
Well Name & No.	Betonnies Tsosie Unit G34 2308 509H
County & State	San Juan, NM
SDI Job No.	OP.030128
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 444 feet to a measured depth of 5,171 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

31-Aug-21

Date

Janie Collins
Contract Well Planner
Scientific Drilling International



DJR Operating

Betonne Tsoie Unit

G34 2308 Pad

509H - Slot 2

Original Drilling

Design: Original Drilling

Standard Survey Report

31 August, 2021



www.scientificdrilling.com





Scientific Drilling Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 509H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Site:	G34 2308 Pad	MD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Well:	# 509H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Grand Junction

Project	Betonne Tsoie 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	G34 2308 Pad		
Site Position:		Northing:	1,887,253.23 usft
From:	Lat/Long	Easting:	2,771,935.23 usft
Position Uncertainty:	0 ft	Slot Radius:	13.20 in
		Latitude:	36.18657800
		Longitude:	-107.66781200
		Grid Convergence:	0.10 °

Well	# 509H - Slot 2		
Well Position	+N/-S	0 ft	Northing:
	+E/-W	0 ft	Easting:
Position Uncertainty	0 ft	Wellhead Elevation:	ft
		Latitude:	36.18654500
		Longitude:	-107.66794100
		Ground Level:	6834 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021_FILE	8/8/2021	8.57	62.68	49,158.60000000

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	311.32	

Survey Program	Date	8/31/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
444	4084	Survey #1 - Surface MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
4104	5171	Survey #2 - Cure MWD Survey (Original D	MWD+HDGM	OWSG MWD + HDGM	
5264	10,586	Survey #3 - Lateral MWD Survey (Original	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	
444	1.18	211.25	444	-4	-2	-1	0.27	0.27	0.00	
536	2.02	212.81	536	-6	-4	-1	0.91	0.91	1.70	
628	3.68	198.56	628	-10	-6	-3	1.95	1.80	-15.49	
721	5.23	198.47	721	-17	-8	-5	1.67	1.67	-0.10	
813	5.85	199.92	812	-25	-11	-9	0.69	0.67	1.58	
904	5.45	194.08	903	-34	-13	-12	0.77	-0.44	-6.42	
998	5.65	197.64	996	-43	-16	-16	0.42	0.21	3.79	
1088	5.81	198.01	1086	-51	-19	-20	0.18	0.18	0.41	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 509H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Site:	G34 2308 Pad	MD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Well:	# 509H	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)	
1178	5.75	193.25	1175	-60	-21	-24	0.54	-0.07	-5.29	
1273	5.83	193.55	1270	-69	-23	-28	0.09	0.08	0.32	
1360	5.90	201.83	1356	-78	-26	-32	0.97	0.08	9.52	
1455	5.22	201.52	1451	-86	-29	-35	0.72	-0.72	-0.33	
1545	5.81	202.39	1541	-94	-33	-38	0.66	0.66	0.97	
1636	5.77	202.44	1631	-103	-36	-41	0.04	-0.04	0.05	
1725	5.16	205.93	1720	-111	-40	-43	0.78	-0.69	3.92	
1818	6.18	203.37	1812	-119	-43	-46	1.13	1.10	-2.75	
1912	5.75	200.51	1906	-128	-47	-49	0.56	-0.46	-3.04	
2006	6.97	193.01	1999	-138	-50	-54	1.57	1.30	-7.98	
2101	7.06	198.12	2093	-149	-53	-59	0.66	0.09	5.38	
2196	7.50	197.58	2188	-161	-57	-63	0.47	0.46	-0.57	
2291	8.35	194.43	2282	-173	-60	-69	1.00	0.89	-3.32	
2386	7.01	196.20	2376	-185	-64	-75	1.43	-1.41	1.86	
2481	7.31	200.97	2470	-197	-68	-79	0.70	0.32	5.02	
2576	6.32	192.95	2564	-207	-71	-84	1.44	-1.04	-8.44	
2671	7.05	192.87	2659	-218	-73	-89	0.77	0.77	-0.08	
2766	4.69	187.62	2753	-228	-75	-94	2.55	-2.48	-5.53	
2861	4.70	189.03	2848	-235	-76	-98	0.12	0.01	1.48	
2956	4.90	183.31	2943	-243	-77	-103	0.55	0.21	-6.02	
3051	4.72	201.99	3037	-251	-79	-107	1.65	-0.19	19.66	
3146	4.65	200.97	3132	-258	-82	-109	0.11	-0.07	-1.07	
3241	5.05	205.18	3227	-266	-85	-112	0.56	0.42	4.43	
3336	5.01	198.88	3321	-273	-88	-114	0.58	-0.04	-6.63	
3431	4.17	207.72	3416	-280	-91	-117	1.15	-0.88	9.31	
3526	4.64	197.17	3511	-287	-94	-119	0.98	0.49	-11.11	
3621	4.48	192.49	3605	-294	-96	-123	0.43	-0.17	-4.93	
3716	6.20	187.95	3700	-303	-97	-127	1.86	1.81	-4.78	
3811	6.33	188.29	3794	-313	-99	-133	0.14	0.14	0.36	
3906	6.53	185.56	3889	-324	-100	-139	0.38	0.21	-2.87	
4001	5.19	183.47	3983	-333	-101	-145	1.43	-1.41	-2.20	
4084	4.59	223.24	4066	-340	-103	-147	4.06	-0.72	47.92	
4104	5.54	244.70	4086	-341	-105	-146	10.51	4.75	107.26	
4179	7.18	274.29	4161	-342	-112	-141	4.81	2.19	39.45	
4274	12.11	304.42	4254	-336	-127	-127	7.26	5.19	31.72	
4369	20.42	315.89	4345	-318	-146	-100	9.34	8.75	12.07	
4465	26.94	319.01	4433	-290	-172	-62	6.91	6.79	3.25	
4560	30.69	316.81	4516	-256	-203	-16	4.10	3.95	-2.32	
4655	34.49	315.32	4596	-219	-239	35	4.09	4.00	-1.57	
4750	40.98	319.26	4672	-176	-278	92	7.28	6.83	4.15	
4845	48.50	315.54	4739	-127	-323	159	8.38	7.92	-3.92	
4892	54.00	313.70	4768	-101	-349	195	12.09	11.70	-3.91	
4940	59.53	313.59	4795	-74	-378	235	11.52	11.52	-0.23	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 509H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Site:	G34 2308 Pad	MD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Well:	# 509H	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)	
4985	65.43	313.70	4816	-46	-407	275	13.11	13.11	0.24	
5035	71.12	313.74	4834	-14	-441	322	11.38	11.38	0.08	
5090	77.52	312.49	4849	22	-479	375	11.84	11.64	-2.27	
5171	83.67	310.91	4862	75	-539	455	7.83	7.59	-1.95	
5264	86.57	312.58	4870	137	-608	547	3.60	3.12	1.80	
5358	89.17	312.76	4874	201	-677	641	2.77	2.77	0.19	
5452	89.47	312.50	4875	264	-746	735	0.42	0.32	-0.28	
5547	90.09	312.58	4875	328	-816	830	0.66	0.65	0.08	
5641	90.18	312.06	4875	392	-886	924	0.56	0.10	-0.55	
5735	90.57	312.06	4874	455	-956	1018	0.41	0.41	0.00	
5829	90.57	311.97	4873	518	-1026	1112	0.10	0.00	-0.10	
5923	90.26	314.17	4873	582	-1094	1206	2.36	-0.33	2.34	
6017	90.26	313.11	4872	647	-1162	1300	1.13	0.00	-1.13	
6110	90.09	312.85	4872	710	-1230	1393	0.33	-0.18	-0.28	
6202	88.20	314.34	4873	774	-1297	1485	2.62	-2.05	1.62	
6294	88.20	314.00	4876	838	-1363	1577	0.37	0.00	-0.37	
6386	88.77	314.61	4879	902	-1429	1668	0.91	0.62	0.66	
6479	88.60	313.55	4881	966	-1495	1761	1.15	-0.18	-1.14	
6567	88.99	314.78	4883	1028	-1559	1849	1.47	0.44	1.40	
6660	88.59	314.25	4884	1093	-1625	1942	0.71	-0.43	-0.57	
6752	91.76	314.61	4884	1157	-1691	2034	3.47	3.45	0.39	
6845	91.58	313.20	4881	1222	-1758	2127	1.53	-0.19	-1.52	
6938	91.49	311.97	4879	1285	-1826	2220	1.33	-0.10	-1.32	
7030	89.69	313.11	4878	1347	-1894	2312	2.32	-1.96	1.24	
7122	90.40	314.96	4878	1411	-1960	2403	2.15	0.77	2.01	
7215	89.87	314.08	4878	1476	-2026	2496	1.10	-0.57	-0.95	
7307	88.86	315.40	4879	1541	-2092	2588	1.81	-1.10	1.43	
7399	88.68	314.78	4881	1606	-2156	2680	0.70	-0.20	-0.67	
7490	87.89	313.46	4883	1669	-2222	2771	1.69	-0.87	-1.45	
7582	89.56	313.99	4886	1733	-2288	2863	1.90	1.82	0.58	
7674	91.19	317.07	4885	1799	-2353	2954	3.79	1.77	3.35	
7765	91.67	316.45	4883	1865	-2415	3045	0.86	0.53	-0.68	
7857	91.27	315.40	4880	1931	-2479	3137	1.22	-0.43	-1.14	
7949	90.00	313.11	4879	1995	-2545	3229	2.85	-1.38	-2.49	
8041	90.79	315.66	4879	2059	-2611	3320	2.90	0.86	2.77	
8133	90.48	314.96	4878	2125	-2675	3412	0.83	-0.34	-0.76	
8225	89.47	312.94	4878	2189	-2742	3504	2.45	-1.10	-2.20	
8318	91.19	315.40	4877	2253	-2808	3597	3.23	1.85	2.65	
8409	91.19	317.15	4875	2319	-2871	3688	1.92	0.00	1.92	
8501	91.10	316.54	4873	2386	-2934	3779	0.67	-0.10	-0.66	
8593	91.36	316.28	4871	2453	-2997	3871	0.40	0.28	-0.28	
8686	89.87	317.24	4870	2521	-3061	3963	1.91	-1.60	1.03	
8778	90.00	316.36	4871	2588	-3124	4055	0.97	0.14	-0.96	



Scientific Drilling Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 509H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Site:	G34 2308 Pad	MD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Well:	# 509H	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)	
8871	90.09	316.36	4870	2655	-3188	4148	0.10	0.10	0.00	
8962	90.26	315.84	4870	2721	-3251	4238	0.60	0.19	-0.57	
9054	90.57	315.48	4870	2786	-3316	4330	0.52	0.34	-0.39	
9147	89.56	315.83	4869	2853	-3381	4423	1.15	-1.09	0.38	
9239	89.67	315.31	4870	2919	-3445	4514	0.58	0.12	-0.57	
9332	90.26	315.05	4870	2985	-3511	4607	0.69	0.63	-0.28	
9424	89.30	316.01	4870	3050	-3575	4699	1.48	-1.04	1.04	
9515	89.69	315.75	4871	3116	-3638	4790	0.52	0.43	-0.29	
9608	90.26	315.40	4871	3182	-3704	4882	0.72	0.61	-0.38	
9699	90.57	314.96	4871	3246	-3768	4973	0.59	0.34	-0.48	
9791	90.00	316.45	4870	3312	-3832	5065	1.73	-0.62	1.62	
9884	90.79	315.75	4870	3379	-3896	5158	1.13	0.85	-0.75	
9976	89.47	317.86	4869	3446	-3959	5249	2.71	-1.43	2.29	
10,068	90.09	318.03	4870	3515	-4021	5341	0.70	0.67	0.18	
10,161	90.57	317.15	4869	3583	-4084	5433	1.08	0.52	-0.95	
10,252	89.08	315.75	4869	3649	-4146	5524	2.25	-1.64	-1.54	
10,344	89.56	315.05	4870	3715	-4211	5615	0.92	0.52	-0.76	
10,437	90.40	314.78	4871	3781	-4277	5708	0.95	0.90	-0.29	
10,526	91.10	314.08	4869	3843	-4340	5797	1.11	0.79	-0.79	
10,586	91.10	314.08	4868	3885	-4383	5857	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
444	444	-4	-2	First Surface MWD Survey	
4084	4066	-340	-103	Last Surface MWD Survey	
4104	4086	-341	-105	First Curve MWD Survey	
5171	4862	75	-539	Last Curve MWD Survey	
5264	4870	137	-608	First Lateral MWD Survey	
10,526	4869	3843	-4340	Last Lateral MWD Survey	
10,586	4868	3885	-4383	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____



DJR

Betonne Tsoie Unit

G34 2308 Pad

#509H

End of Well Report



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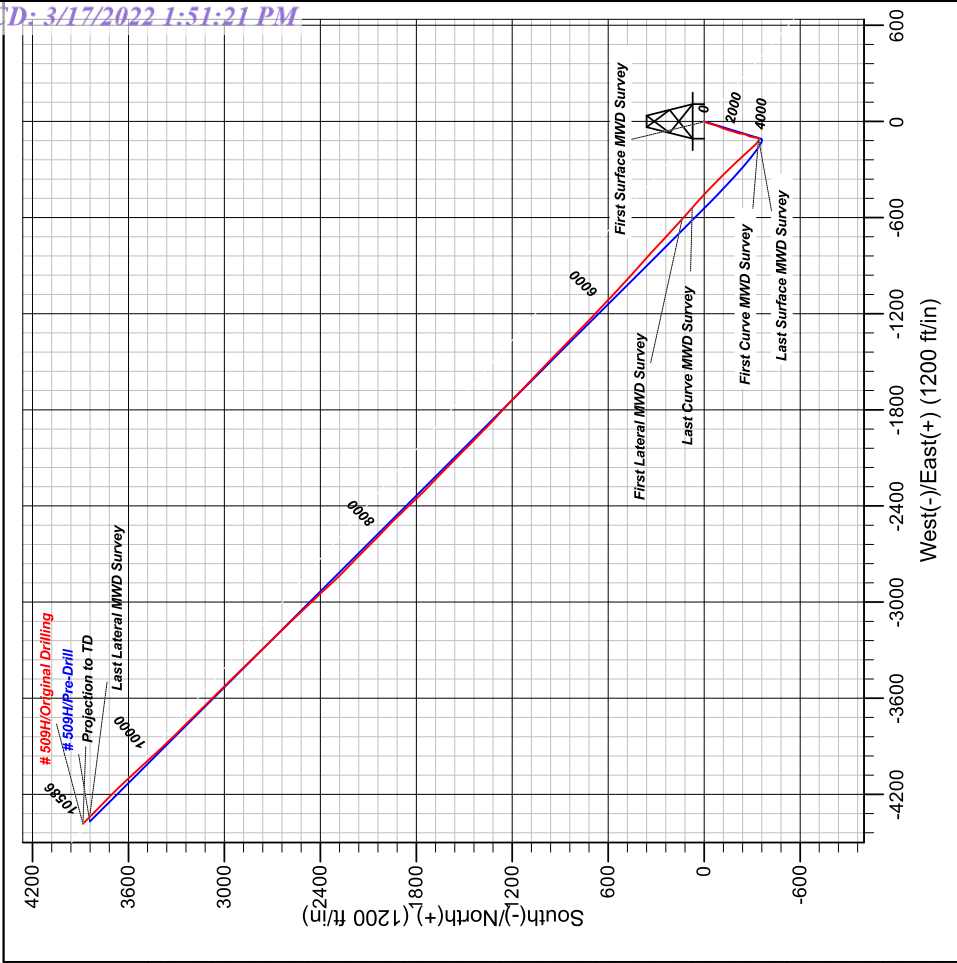


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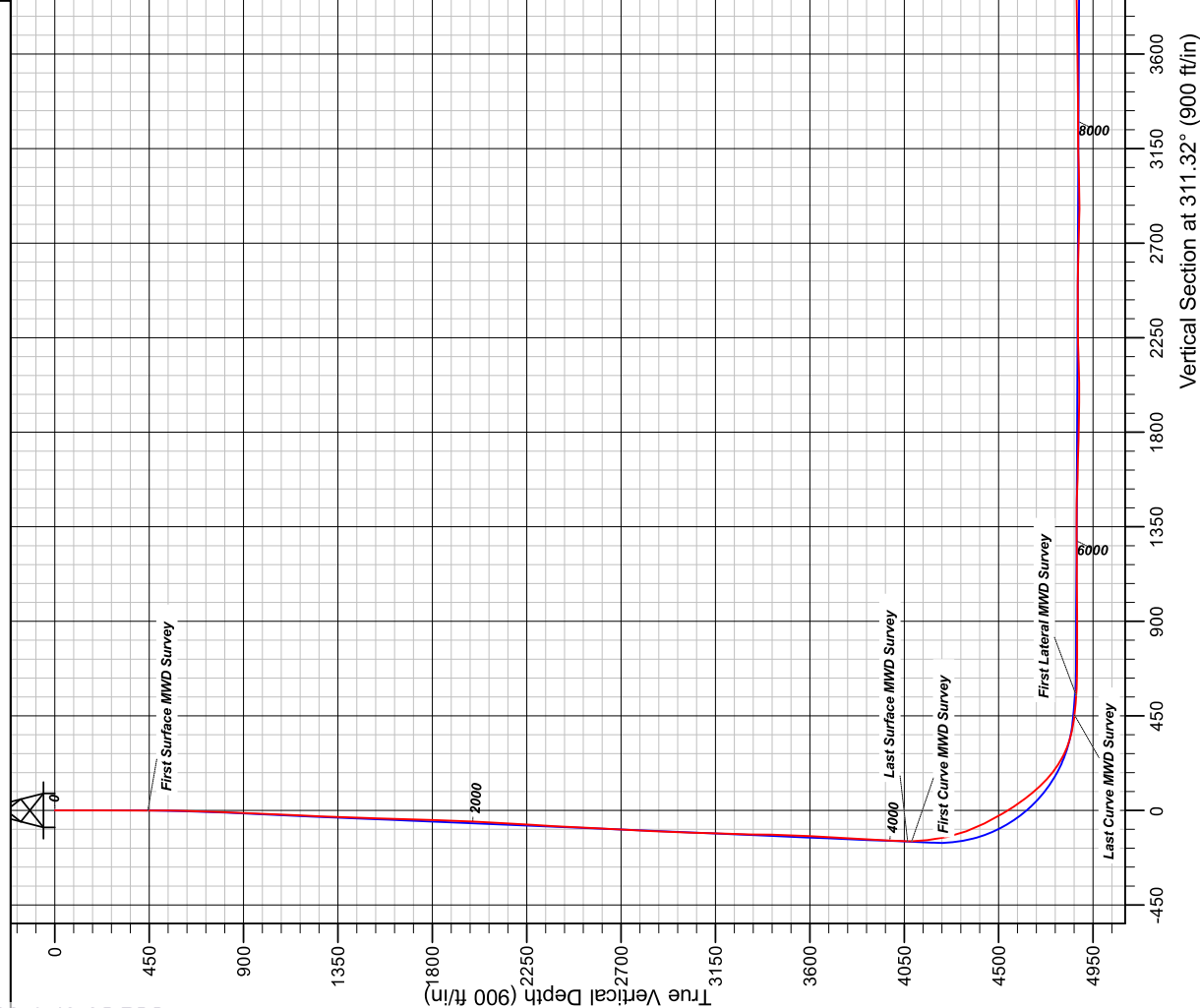
- 1. Landmark Compass Directional Plot and Surveys**
- 2. BHA Summary & Daily Activity Reports**
- 3. Drilling Records and Slide Sheets**
- 4. Graphical Job History**
- 5. Support Staff**



Company Name: DJR Operating
Project: Bettonnie Tsosie Unit
Site: G34 2308 Pad
Well: # 509H
Wellbore: Original Drilling



WELL DETAILS: # 509H				
GL 6834 & RKB 26' @ 6860ft (H&P 443) 6834				
+N/-S	+E/-W	Northing	Latitude	Longitude
0	0	1887241.15	36.18654500	-107.66794100
				2



Design: Original Drilling (# 509H/Original Drilling)
Created By: Janie Collins Date: 11:18, August 31 2021
PROJECT DETAILS: Bettonnie Tsosie 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



DJR Operating

Betonne Tsoie Unit

G34 2308 Pad

509H - Slot 2

Original Drilling

Design: Original Drilling

Standard Survey Report

31 August, 2021



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Scientific Drilling Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 509H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Site:	G34 2308 Pad	MD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Well:	# 509H	North Reference:	True
Wellbore:	Original Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Original Drilling	Database:	Grand Junction

Project	Betonne Tsoie 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	G34 2308 Pad		
Site Position:		Northing:	1,887,253.23 usft
From:	Lat/Long	Easting:	2,771,935.23 usft
Position Uncertainty:	0 ft	Slot Radius:	13.20 in
		Latitude:	36.18657800
		Longitude:	-107.66781200
		Grid Convergence:	0.10 °

Well	# 509H - Slot 2		
Well Position	+N/-S	0 ft	Northing:
	+E/-W	0 ft	Easting:
Position Uncertainty	0 ft	Wellhead Elevation:	ft
		Latitude:	36.18654500
		Longitude:	-107.66794100
		Ground Level:	6834 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021_FILE	8/8/2021	8.57	62.68	49,158.60000000

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	311.32	

Survey Program	Date	8/31/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
444	4084	Survey #1 - Surface MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
4104	5171	Survey #2 - Cure MWD Survey (Original D	MWD+HDGM	OWSG MWD + HDGM	
5264	10,586	Survey #3 - Lateral MWD Survey (Original	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	
444	1.18	211.25	444	-4	-2	-1	0.27	0.27	0.00	
536	2.02	212.81	536	-6	-4	-1	0.91	0.91	1.70	
628	3.68	198.56	628	-10	-6	-3	1.95	1.80	-15.49	
721	5.23	198.47	721	-17	-8	-5	1.67	1.67	-0.10	
813	5.85	199.92	812	-25	-11	-9	0.69	0.67	1.58	
904	5.45	194.08	903	-34	-13	-12	0.77	-0.44	-6.42	
998	5.65	197.64	996	-43	-16	-16	0.42	0.21	3.79	
1088	5.81	198.01	1086	-51	-19	-20	0.18	0.18	0.41	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 509H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Site:	G34 2308 Pad	MD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Well:	# 509H	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)	
1178	5.75	193.25	1175	-60	-21	-24	0.54	-0.07	-5.29	
1273	5.83	193.55	1270	-69	-23	-28	0.09	0.08	0.32	
1360	5.90	201.83	1356	-78	-26	-32	0.97	0.08	9.52	
1455	5.22	201.52	1451	-86	-29	-35	0.72	-0.72	-0.33	
1545	5.81	202.39	1541	-94	-33	-38	0.66	0.66	0.97	
1636	5.77	202.44	1631	-103	-36	-41	0.04	-0.04	0.05	
1725	5.16	205.93	1720	-111	-40	-43	0.78	-0.69	3.92	
1818	6.18	203.37	1812	-119	-43	-46	1.13	1.10	-2.75	
1912	5.75	200.51	1906	-128	-47	-49	0.56	-0.46	-3.04	
2006	6.97	193.01	1999	-138	-50	-54	1.57	1.30	-7.98	
2101	7.06	198.12	2093	-149	-53	-59	0.66	0.09	5.38	
2196	7.50	197.58	2188	-161	-57	-63	0.47	0.46	-0.57	
2291	8.35	194.43	2282	-173	-60	-69	1.00	0.89	-3.32	
2386	7.01	196.20	2376	-185	-64	-75	1.43	-1.41	1.86	
2481	7.31	200.97	2470	-197	-68	-79	0.70	0.32	5.02	
2576	6.32	192.95	2564	-207	-71	-84	1.44	-1.04	-8.44	
2671	7.05	192.87	2659	-218	-73	-89	0.77	0.77	-0.08	
2766	4.69	187.62	2753	-228	-75	-94	2.55	-2.48	-5.53	
2861	4.70	189.03	2848	-235	-76	-98	0.12	0.01	1.48	
2956	4.90	183.31	2943	-243	-77	-103	0.55	0.21	-6.02	
3051	4.72	201.99	3037	-251	-79	-107	1.65	-0.19	19.66	
3146	4.65	200.97	3132	-258	-82	-109	0.11	-0.07	-1.07	
3241	5.05	205.18	3227	-266	-85	-112	0.56	0.42	4.43	
3336	5.01	198.88	3321	-273	-88	-114	0.58	-0.04	-6.63	
3431	4.17	207.72	3416	-280	-91	-117	1.15	-0.88	9.31	
3526	4.64	197.17	3511	-287	-94	-119	0.98	0.49	-11.11	
3621	4.48	192.49	3605	-294	-96	-123	0.43	-0.17	-4.93	
3716	6.20	187.95	3700	-303	-97	-127	1.86	1.81	-4.78	
3811	6.33	188.29	3794	-313	-99	-133	0.14	0.14	0.36	
3906	6.53	185.56	3889	-324	-100	-139	0.38	0.21	-2.87	
4001	5.19	183.47	3983	-333	-101	-145	1.43	-1.41	-2.20	
4084	4.59	223.24	4066	-340	-103	-147	4.06	-0.72	47.92	
4104	5.54	244.70	4086	-341	-105	-146	10.51	4.75	107.26	
4179	7.18	274.29	4161	-342	-112	-141	4.81	2.19	39.45	
4274	12.11	304.42	4254	-336	-127	-127	7.26	5.19	31.72	
4369	20.42	315.89	4345	-318	-146	-100	9.34	8.75	12.07	
4465	26.94	319.01	4433	-290	-172	-62	6.91	6.79	3.25	
4560	30.69	316.81	4516	-256	-203	-16	4.10	3.95	-2.32	
4655	34.49	315.32	4596	-219	-239	35	4.09	4.00	-1.57	
4750	40.98	319.26	4672	-176	-278	92	7.28	6.83	4.15	
4845	48.50	315.54	4739	-127	-323	159	8.38	7.92	-3.92	
4892	54.00	313.70	4768	-101	-349	195	12.09	11.70	-3.91	
4940	59.53	313.59	4795	-74	-378	235	11.52	11.52	-0.23	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 509H - Slot 2
Project:	Betonne Tsoie Unit	TVD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Site:	G34 2308 Pad	MD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Well:	# 509H	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)	
4985	65.43	313.70	4816	-46	-407	275	13.11	13.11	0.24	
5035	71.12	313.74	4834	-14	-441	322	11.38	11.38	0.08	
5090	77.52	312.49	4849	22	-479	375	11.84	11.64	-2.27	
5171	83.67	310.91	4862	75	-539	455	7.83	7.59	-1.95	
5264	86.57	312.58	4870	137	-608	547	3.60	3.12	1.80	
5358	89.17	312.76	4874	201	-677	641	2.77	2.77	0.19	
5452	89.47	312.50	4875	264	-746	735	0.42	0.32	-0.28	
5547	90.09	312.58	4875	328	-816	830	0.66	0.65	0.08	
5641	90.18	312.06	4875	392	-886	924	0.56	0.10	-0.55	
5735	90.57	312.06	4874	455	-956	1018	0.41	0.41	0.00	
5829	90.57	311.97	4873	518	-1026	1112	0.10	0.00	-0.10	
5923	90.26	314.17	4873	582	-1094	1206	2.36	-0.33	2.34	
6017	90.26	313.11	4872	647	-1162	1300	1.13	0.00	-1.13	
6110	90.09	312.85	4872	710	-1230	1393	0.33	-0.18	-0.28	
6202	88.20	314.34	4873	774	-1297	1485	2.62	-2.05	1.62	
6294	88.20	314.00	4876	838	-1363	1577	0.37	0.00	-0.37	
6386	88.77	314.61	4879	902	-1429	1668	0.91	0.62	0.66	
6479	88.60	313.55	4881	966	-1495	1761	1.15	-0.18	-1.14	
6567	88.99	314.78	4883	1028	-1559	1849	1.47	0.44	1.40	
6660	88.59	314.25	4884	1093	-1625	1942	0.71	-0.43	-0.57	
6752	91.76	314.61	4884	1157	-1691	2034	3.47	3.45	0.39	
6845	91.58	313.20	4881	1222	-1758	2127	1.53	-0.19	-1.52	
6938	91.49	311.97	4879	1285	-1826	2220	1.33	-0.10	-1.32	
7030	89.69	313.11	4878	1347	-1894	2312	2.32	-1.96	1.24	
7122	90.40	314.96	4878	1411	-1960	2403	2.15	0.77	2.01	
7215	89.87	314.08	4878	1476	-2026	2496	1.10	-0.57	-0.95	
7307	88.86	315.40	4879	1541	-2092	2588	1.81	-1.10	1.43	
7399	88.68	314.78	4881	1606	-2156	2680	0.70	-0.20	-0.67	
7490	87.89	313.46	4883	1669	-2222	2771	1.69	-0.87	-1.45	
7582	89.56	313.99	4886	1733	-2288	2863	1.90	1.82	0.58	
7674	91.19	317.07	4885	1799	-2353	2954	3.79	1.77	3.35	
7765	91.67	316.45	4883	1865	-2415	3045	0.86	0.53	-0.68	
7857	91.27	315.40	4880	1931	-2479	3137	1.22	-0.43	-1.14	
7949	90.00	313.11	4879	1995	-2545	3229	2.85	-1.38	-2.49	
8041	90.79	315.66	4879	2059	-2611	3320	2.90	0.86	2.77	
8133	90.48	314.96	4878	2125	-2675	3412	0.83	-0.34	-0.76	
8225	89.47	312.94	4878	2189	-2742	3504	2.45	-1.10	-2.20	
8318	91.19	315.40	4877	2253	-2808	3597	3.23	1.85	2.65	
8409	91.19	317.15	4875	2319	-2871	3688	1.92	0.00	1.92	
8501	91.10	316.54	4873	2386	-2934	3779	0.67	-0.10	-0.66	
8593	91.36	316.28	4871	2453	-2997	3871	0.40	0.28	-0.28	
8686	89.87	317.24	4870	2521	-3061	3963	1.91	-1.60	1.03	
8778	90.00	316.36	4871	2588	-3124	4055	0.97	0.14	-0.96	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 509H - Slot 2
Project:	Betonnie Tsosie Unit	TVD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Site:	G34 2308 Pad	MD Reference:	GL 6834' & RKB 26' @ 6860ft (H&P 443)
Well:	# 509H	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)	
8871	90.09	316.36	4870	2655	-3188	4148	0.10	0.10	0.00	
8962	90.26	315.84	4870	2721	-3251	4238	0.60	0.19	-0.57	
9054	90.57	315.48	4870	2786	-3316	4330	0.52	0.34	-0.39	
9147	89.56	315.83	4869	2853	-3381	4423	1.15	-1.09	0.38	
9239	89.67	315.31	4870	2919	-3445	4514	0.58	0.12	-0.57	
9332	90.26	315.05	4870	2985	-3511	4607	0.69	0.63	-0.28	
9424	89.30	316.01	4870	3050	-3575	4699	1.48	-1.04	1.04	
9515	89.69	315.75	4871	3116	-3638	4790	0.52	0.43	-0.29	
9608	90.26	315.40	4871	3182	-3704	4882	0.72	0.61	-0.38	
9699	90.57	314.96	4871	3246	-3768	4973	0.59	0.34	-0.48	
9791	90.00	316.45	4870	3312	-3832	5065	1.73	-0.62	1.62	
9884	90.79	315.75	4870	3379	-3896	5158	1.13	0.85	-0.75	
9976	89.47	317.86	4869	3446	-3959	5249	2.71	-1.43	2.29	
10,068	90.09	318.03	4870	3515	-4021	5341	0.70	0.67	0.18	
10,161	90.57	317.15	4869	3583	-4084	5433	1.08	0.52	-0.95	
10,252	89.08	315.75	4869	3649	-4146	5524	2.25	-1.64	-1.54	
10,344	89.56	315.05	4870	3715	-4211	5615	0.92	0.52	-0.76	
10,437	90.40	314.78	4871	3781	-4277	5708	0.95	0.90	-0.29	
10,526	91.10	314.08	4869	3843	-4340	5797	1.11	0.79	-0.79	
10,586	91.10	314.08	4868	3885	-4383	5857	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
444	444	-4	-2	First Surface MWD Survey	
4084	4066	-340	-103	Last Surface MWD Survey	
4104	4086	-341	-105	First Curve MWD Survey	
5171	4862	75	-539	Last Curve MWD Survey	
5264	4870	137	-608	First Lateral MWD Survey	
10,526	4869	3843	-4340	Last Lateral MWD Survey	
10,586	4868	3885	-4383	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____



DJR Operating
DJR
Betonnies Tsosie Unit
G34 2308 Pad
509H
Original Drilling
Job No. OP.030128

Scientific Drilling End of Well Report

Start Time: 08 Aug 2021 04:00 Hrs.
End Time: 30 Aug 2021 00:00 Hrs.





DJR Operating DJR, Bettonie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Job Number: OP.030128	Region:	Lease/Block:	Company Rep. #1: James Retherford
Customer: DJR Operating	Field: DJR	UWI No.:	Company Rep. #2: Shane Heard
Well Name: # 509H	Project: Bettonie Tsosie Unit	Start Date: Sunday, August 8, 2021	Geologist:
Rig Name: H&P 443	Structure: G34 2308 Pad	End Date: Monday, August 30, 2021	Directional Supervisor:

Drilling Summary				Pump Details							
Start Depth: 381.00ft	End Depth: 10,586.00ft	Below Rotary Hours: 89.42hrs	Circulating Hours: 56.15hrs	#	Model	Liner Size (")	Liner Rating (%)	Volume Efficiency (%)	Vol. per Stroke (gal(US))	Maximum Pressure (psi)	Maximum Flow (gpm(US))
Total Depth Drilled: 10,205.00ft	Total Drilled Hours: 44.02hrs	Ave. Total ROP: 231.84ft/hr	Percent Drilling: 49.23%	1	Gardner-Denver PZ-11-1600	5 1/2	85.00	95.00	3.22	4,756	515
Total Rotating: 8,808.00ft	Rotating Hours: 31.10hrs	Ave. Rotating ROP: 283.22ft/hr	Percent Rotating: 86.31%	2	Gardner-Denver PZ-11-1600	5 1/2	85.00	95.00	3.22	4,756	515
Total Sliding: 1,397.00ft	Sliding Hours: 12.92hrs	Ave. Sliding ROP: 108.15ft/hr	Percent Sliding: 13.69%	3							

Drilling Parameters - BHA #1 Vertical						Bit Record - BHA #1 Vertical			
	Min	Max		Min	Max	Bit Number (Bit Run): 1 (Run 1)	Description: NOV TK56 5x16's		
WOB (lbf)	5	14	SPP Off Bottom (psi)	1,600	3,150	Manufacturer:	TFA:	Jets:	
Pick Up (lbf)	65	125	SPP On Bottom (psi)	1,850	4,100	NOV	0.982in ²	5 x 16'S	
Slack Off (lbf)	60	115	Delta Pressure (psi)	150	950	Model:	Bit Diameter:	Bit Hours:	
Rot. Off Bottom (lbf)	63	115	Flow Rate (gpm(US))	503	604	TK56	8 3/4"	9.93Hrs	
Bottom Hole Temp (°F)	95.0	113.0	Pump Rate (SPM)	164	197	Type:	IADC#:	Bit Footage:	
Rotary Speed (RPM)	30	50	Motor Speed (RPM)	175	196	8 3/4" PDC		3,683.00ft	
Surface Torque (ft-lbs)	1,500	9,200				Serial Number:	Condition:		
						A268178			
						Grade:	Reason for pulling out of hole:		
						1,1	TD Vertical		

Drilling Summary - BHA #1 Vertical									
Start Depth: 381.00ft	Total Rotating: 3,509.00ft	End Depth: 4,064.00ft	Rotating Hours: 7.53hrs	Below Rotary Hours: 22.75hrs	Ave. Rotating ROP: 465.80ft/hr	Circulating Hours: 13.40hrs	Percent Rotating: 95.28%		
Total Depth Drilled: 3,683.00ft	Total Sliding: 174.00ft	Total Drilled Hours: 9.93hrs	Sliding Hours: 2.40hrs	Ave. Total ROP: 370.77ft/hr	Ave. Sliding ROP: 72.50ft/hr	Percent Drilling: 43.66%	Percent Sliding: 4.72%		

Drillstring Components - BHA #1 Vertical										
Item #	Description	Vendor	Serial No.	Outside Diameter (")	Inside Diameter (")	Linear Weight (lbs/ft)	Compn't Weight (lbf)	Top Connection	Length (ft)	Total Length (ft)
1	NOV TK56 5x16's	NOV	A268178	8 3/4	0	0.00	0	4 1/2 REGP	0.80	0.80
2	SDI 7:8 6.4 1.75FBH	SDI	65260	6 1/2	0	0.00	0	4 1/2 IF	33.82	34.62
3	6 1/2" NMFP	SDI	DR20053	6 13/16	3 1/4	0.00	0	4 1/2 IF	9.72	44.34
4	6 1/2" Flex NMDC	SDI	DR29580	6 7/16	3 1/4	0.00	0	4 1/2 IF	29.89	74.23
5	6 1/2" HOS	SDI	8-1187	6 1/4	3 1/4	0.00	0	4 1/2 IF	3.96	78.19
6	6 1/2" Gap Sub	SDI	69-107	6 3/4	2 3/4	0.00	0	4 1/2 IF	4.02	82.21
7	6 1/2" NMPC	SDI	125-091	6 1/4	3 1/4	0.00	0	4 1/2 IF	9.24	91.45
8	6 1/2" NMDC	SDI	122-1103	6 3/8	3 1/4	0.00	0	4 1/2 IF	28.21	119.66
9	X-Over	SDI	232-001	6 3/4	3	0.00	0	4 1/2 XH	4.00	123.66
10	2 Joints HWDP	Rig DP	555	4 1/2	2.360	0.00	0	4 1/2 XH	61.58	185.24
11	X-Over	DJR	666	6 3/4	3	0.00	0	4 1/2 IF	1.83	187.07
12	Ream-N-Drill	SD	DTR DNI 457	6 3/4	3 1/2	0.00	0	4 1/2 IF	8.44	195.51
13	X-Over	DJR	232-001	6 3/4	3	0.00	0	4 1/2 XH	1.23	196.74

Drillstring Discussion	
Flow Range	300-600 gal/min
Speed Range	86 - 180 RPM
Speed Ratio	0.29 rev/gal
Max Differential Pressure	1,440 psi



DJR Operating DJR, Bettonie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Drilling Parameters - BHA #2 Curve						Bit Record - BHA #2 Curve		
	Min	Max		Min	Max	Bit Number (Bit Run):	Description:	
WOB (lbf)	18	26	SPP Off Bottom (psi)	2,300	3,300	2 (Run 1)	NOV TKC56 5x14's	
Pick Up (lbf)	160	175	SPP On Bottom (psi)	3,150	3,850	Manufacturer:	TFA:	Jets:
Slack Off (lbf)	140	150	Delta Pressure: (psi)	300	850	NOV	0.982in ²	5 x 14
Rot. Off Bottom (lbf)	150	165	Flow Rate (gpm(US))	554	605	Model:	Bit Diameter:	Bit Hours:
Bottom Hole Temp (°F)	126.0	126.0	Pump Rate (SPM)	180	198	TKC56	8 3/4"	7.08Hrs
Rotary Speed (RPM)	25	25	Motor Speed (RPM)	277	327	Type:	IADC#:	Bit Footage:
Surface Torque (ft-lbs)	4,800	4,800				8 3/4" PDC		1,082.00ft
						Serial Number:	Condition:	
						A245255		
						Grade:	Reason for pulling out of hole:	
						1,1	Land Curve	

Drilling Summary - BHA #2 Curve							
Start Depth:	Total Rotating:	End Depth:	Rotating Hours:	Below Rotary Hours:	Ave. Rotating ROP:	Circulating Hours:	Percent Rotating:
4,064.00ft	180.00ft	5,146.00ft	1.37hrs	15.33hrs	131.71ft/hr	9.72hrs	16.64%
Total Depth Drilled:	Total Sliding:	Total Drilled Hours:	Sliding Hours:	Ave. Total ROP:	Ave. Sliding ROP:	Percent Drilling:	Percent Sliding:
1,082.00ft	902.00ft	7.08hrs	5.72hrs	152.75ft/hr	157.78ft/hr	46.20%	83.36%

Drillstring Components - BHA #2 Curve										
Item #	Description	Vendor	Serial No.	Outside Diameter (")	Inside Diameter (")	Linear Weight (lbs/ft)	Compn't Weight (lbf)	Top Connection	Length (ft)	Total Length (ft)
1	NOV TKC56 5x14's	NOV	A245255	8 3/4	0	0.00	0	4 1/2 REGP	0.80	0.80
2	SDI 4:5 7.0 2.25FBH	SDI	6915	6 1/2	0	0.00	0	4 1/2 IF	26.84	27.64
3	6 1/2" NMFP	SDI	DR20053	6 13/16	3 1/4	0.00	0	4 1/2 IF	9.72	37.36
4	6 1/2" Flex NMDC	SDI	DR29580	6 7/16	3 1/4	0.00	0	4 1/2 IF	29.89	67.25
5	6 1/2" HOS	SDI	8-1187	6 1/4	3 1/4	0.00	0	4 1/2 IF	3.96	71.21
6	6 1/2" Gap Sub	SDI	69-107	6 3/4	2 3/4	0.00	0	4 1/2 IF	4.02	75.23
7	6 1/2" NMPC	SDI	125-091	6 1/4	3 1/4	0.00	0	4 1/2 IF	9.24	84.47
8	6 1/2" NMDC	SDI	122-1103	6 3/8	3 1/4	0.00	0	4 1/2 IF	28.21	112.68
9	X-Over	SDI	232-001	6 3/4	3	0.00	0	4 1/2 XH	4.00	116.68
10	13 Stands DP	Rig DP	555	4 1/2	2 3/4	0.00	0	4 1/2 XH	1,228.50	1,345.18

Drillstring Discussion	
Flow Range	300-600 gal/min
Speed Range	149 - 300 RPM
Speed Ratio	0.50 rev/gal
Max Differential Pressure	1,580 psi

Drilling Parameters - BHA #3 Lateral						Bit Record - BHA #3 Lateral		
	Min	Max		Min	Max	Bit Number (Bit Run):	Description:	
WOB (lbf)	10	45	SPP Off Bottom (psi)	2,350	3,250	3 (Run 1)	6 1/8" NOV PDC	
Pick Up (lbf)	120	175	SPP On Bottom (psi)	2,700	4,000	Manufacturer:	TFA:	Jets:
Slack Off (lbf)	100	110	Delta Pressure: (psi)	350	950	NOV	0.982in ²	5 x 16
Rot. Off Bottom (lbf)	110	140	Flow Rate (gpm(US))	204	304	Model:	Bit Diameter:	Bit Hours:
Bottom Hole Temp (°F)	134.0	150.0	Pump Rate (SPM)	94	902	TK56	6 1/8"	27.00Hrs
Rotary Speed (RPM)	45	65	Motor Speed (RPM)	210	246	Type:	IADC#:	Bit Footage:
Surface Torque (ft-lbs)	4,600	11,500				6 1/8 PDC		5,440.00ft
						Serial Number:	Condition:	
						A279393		
						Grade:	Reason for pulling out of hole:	
						0-1-WT-A-X-I-TD	TD	

Drilling Summary - BHA #3 Lateral							
Start Depth:	Total Rotating:	End Depth:	Rotating Hours:	Below Rotary Hours:	Ave. Rotating ROP:	Circulating Hours:	Percent Rotating:
5,146.00ft	5,119.00ft	10,586.00ft	22.20hrs	51.33hrs	230.59ft/hr	33.03hrs	94.10%
Total Depth Drilled:	Total Sliding:	Total Drilled Hours:	Sliding Hours:	Ave. Total ROP:	Ave. Sliding ROP:	Percent Drilling:	Percent Sliding:
5,440.00ft	321.00ft	27.00hrs	4.80hrs	201.48ft/hr	66.88ft/hr	52.60%	5.90%

Drillstring Components - BHA #3 Lateral										
Item #	Description	Vendor	Serial No.	Outside Diameter (")	Inside Diameter (")	Linear Weight (lbs/ft)	Compn't Weight (lbf)	Top Connection	Length (ft)	Total Length (ft)
1	6 1/8" NOV PDC	NOV	A279393	6 1/8	0	0.00	0	3 1/2 REG	0.70	0.70



DJR Operating

DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Drillstring Components - BHA #3 Lateral										
Item #	Description	Vendor	Serial No.	Outside Diameter (")	Inside Diameter (")	Linear Weight (lbs/ft)	Compn't Weight (lbf)	Top Connection	Length (ft)	Total Length (ft)
2	ADT 6/7 8.0 1.83FBH	Alliance	RMK50006	5	0	0.00	0	3 1/2 IF	28.85	29.55
3	4 3/4" UBHO	ENSIGN	MMUB-475 002	4 3/4	2 1/4	0.00	0	3 1/2 IF	3.08	32.63
4	5 1/2" NM Stabilizer	DTI	DR25058	4 7/8	2 5/8	0.00	0	3 1/2 IF	3.91	36.54
5	4 3/4" NMPC	ADT	AMPC4002	4.670	2.690	0.00	0	3 1/2 IF	9.64	46.18
6	4 3/4" NMDC	ADT	SSS6668	4.470	2 11/16	0.00	0	3 1/2 IF	30.58	76.76
7	GAP SUB	ENSIGN	GAP450118 0316	4.730	2.690	0.00	0	3 1/2 IF	5.64	82.40
8	4 3/4" NMDC	ADT	FDT70017	4.800	2 7/16	0.00	0	3 1/2 IF	31.06	113.46
9	4 3/4" NMDC	ADT	TDT30929	4.650	2 11/16	0.00	0	3 1/2 IF	23.90	137.36
10	3 1/2 IF (P) x XT39 (B)	ADT	AX578	5.010	2.570	0.00	0	XT39	1.92	139.28
11	4" DP (57 JOINTS)	RIG	RIG	4	2 1/4	0.00	0	XT39	1,787.76	1,927.04
12	Agitator - XRV	XRV	XRV488-96 8F	4 7/8	2 5/8	0.00	0	XT39	8.98	1,936.02
13	4" DP (126 JOINTS)	RIG	RIG	4	2 1/4	0.00	0	XT39	3,953.55	5,889.57
14	4" HWDP (150 JOINTS)	RIG	RIG	4	2 1/4	0.00	0	XT39	4,607.85	10,497.42
Drillstring Discussion										
Flow Range - 150-350 GPM Max Differential - 1800 PSI Stall Differential - 2700 PSI REV / GAL - .81										

Activity Breakdown									
Date	Start Time	End Time	Hours	Start Depth (ft)	End Depth (ft)	Depth Drilled (ft)	Rate of Penetr'n (ft/hr)	Activity	Comment
BHA #1 Vertical									
08 Aug 2021	04:00	15:20	11.33	381.00	381.00			Standby	
08 Aug 2021	15:20	16:15	0.92	381.00	381.00			Change BHA	
08 Aug 2021	16:15	16:36	0.35	381.00	381.00			Tripping In	
08 Aug 2021	16:36	17:15	0.65	381.00	381.00			Drill Cement and/or Float Equipment	
08 Aug 2021	17:15	17:25	0.17	381.00	414.00	33.00	198.00	Rotating	
08 Aug 2021	17:25	17:29	0.07	414.00	414.00			Connection (drilling)	
08 Aug 2021	17:29	17:40	0.18	414.00	507.00	93.00	507.27	Rotating	
08 Aug 2021	17:40	17:44	0.07	507.00	507.00			Connection (drilling)	
08 Aug 2021	17:44	17:48	0.07	507.00	507.00			Deviation Survey	
08 Aug 2021	17:48	18:54	1.10	507.00	507.00			Other	Trouble Shoot EM - Signal Issues
08 Aug 2021	18:54	19:00	0.10	507.00	522.00	15.00	150.00	Sliding	
08 Aug 2021	19:00	19:08	0.13	522.00	599.00	77.00	577.50	Rotating	
08 Aug 2021	19:08	19:15	0.12	599.00	599.00			Circulate and/or Condition Mud	Ream Stand
08 Aug 2021	19:15	19:20	0.08	599.00	599.00			Survey & Connection	
08 Aug 2021	19:20	19:26	0.10	599.00	616.00	17.00	170.00	Sliding	
08 Aug 2021	19:26	19:39	0.22	616.00	691.00	75.00	346.15	Rotating	
08 Aug 2021	19:39	19:44	0.08	691.00	691.00			Survey & Connection	
08 Aug 2021	19:44	19:53	0.15	691.00	709.00	18.00	120.00	Sliding	
08 Aug 2021	19:53	20:02	0.15	709.00	784.00	75.00	500.00	Rotating	
08 Aug 2021	20:02	20:07	0.08	784.00	784.00			Survey & Connection	
08 Aug 2021	20:07	20:13	0.10	784.00	876.00	92.00	920.00	Rotating	
08 Aug 2021	20:13	20:18	0.08	876.00	876.00			Survey & Connection	
08 Aug 2021	20:18	20:24	0.10	876.00	880.00	4.00	40.00	Sliding	
08 Aug 2021	20:24	20:36	0.20	880.00	967.00	87.00	435.00	Rotating	
08 Aug 2021	20:36	20:40	0.07	967.00	967.00			Survey & Connection	
08 Aug 2021	20:40	20:48	0.13	967.00	1,061.00	94.00	705.00	Rotating	
08 Aug 2021	20:48	20:52	0.07	1,061.00	1,061.00			Survey & Connection	
08 Aug 2021	20:52	21:00	0.13	1,061.00	1,151.00	90.00	675.00	Rotating	
08 Aug 2021	21:00	21:04	0.07	1,151.00	1,151.00			Survey & Connection	
08 Aug 2021	21:04	21:17	0.22	1,151.00	1,241.00	90.00	415.39	Rotating	
08 Aug 2021	21:17	21:21	0.07	1,241.00	1,241.00			Survey & Connection	



DJR Operating DJR, Bettonie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Activity Breakdown									
Date	Start Time	End Time	Hours	Start Depth (ft)	End Depth (ft)	Depth Drilled (ft)	Rate of Penetr'n (ft/hr)	Activity	Comment
08 Aug 2021	21:21	21:30	0.15	1,241.00	1,332.00	91.00	606.67	Rotating	
08 Aug 2021	21:30	21:34	0.07	1,332.00	1,332.00			Survey & Connection	
08 Aug 2021	21:34	21:43	0.15	1,332.00	1,423.00	91.00	606.67	Rotating	
08 Aug 2021	21:43	21:47	0.07	1,423.00	1,423.00			Survey & Connection	
08 Aug 2021	21:47	21:55	0.13	1,423.00	1,518.00	95.00	712.50	Rotating	
08 Aug 2021	21:55	22:00	0.08	1,518.00	1,518.00			Survey & Connection	
08 Aug 2021	22:00	22:06	0.10	1,518.00	1,525.00	7.00	70.00	Sliding	
08 Aug 2021	22:06	22:20	0.23	1,525.00	1,608.00	83.00	355.71	Rotating	
08 Aug 2021	22:20	22:24	0.07	1,608.00	1,608.00			Survey & Connection	
08 Aug 2021	22:24	22:35	0.18	1,608.00	1,699.00	91.00	496.36	Rotating	
08 Aug 2021	22:35	22:40	0.08	1,699.00	1,699.00			Survey & Connection	
08 Aug 2021	22:40	22:55	0.25	1,699.00	1,699.00			Circulate and/or Condition Mud	Trouble Shoot Signal / Sync On EM
08 Aug 2021	22:55	23:06	0.18	1,699.00	1,788.00	89.00	485.46	Rotating	
08 Aug 2021	23:06	23:10	0.07	1,788.00	1,788.00			Survey & Connection	
08 Aug 2021	23:10	23:17	0.12	1,788.00	1,803.00	15.00	128.57	Sliding	
08 Aug 2021	23:17	23:28	0.18	1,803.00	1,881.00	78.00	425.46	Rotating	
08 Aug 2021	23:28	23:32	0.07	1,881.00	1,881.00			Survey & Connection	
08 Aug 2021	23:32	23:44	0.20	1,881.00	1,975.00	94.00	470.00	Rotating	
08 Aug 2021	23:44	23:48	0.07	1,975.00	1,975.00			Survey & Connection	
08 Aug 2021	23:48	23:52	0.07	1,975.00	1,983.00	8.00	120.00	Sliding	
08 Aug 2021	23:52	00:06	0.23	1,983.00	2,069.00	86.00	368.57	Rotating	
09 Aug 2021	00:06	00:10	0.07	2,069.00	2,069.00			Survey & Connection	
09 Aug 2021	00:10	00:20	0.17	2,069.00	2,164.00	95.00	570.00	Rotating	
09 Aug 2021	00:20	00:24	0.07	2,164.00	2,164.00			Survey & Connection	
09 Aug 2021	00:24	00:35	0.18	2,164.00	2,259.00	95.00	518.18	Rotating	
09 Aug 2021	00:35	00:39	0.07	2,259.00	2,259.00			Survey & Connection	
09 Aug 2021	00:39	00:50	0.18	2,259.00	2,354.00	95.00	518.18	Rotating	
09 Aug 2021	00:50	00:55	0.08	2,354.00	2,354.00			Survey & Connection	
09 Aug 2021	00:55	01:03	0.13	2,354.00	2,362.00	8.00	60.00	Sliding	
09 Aug 2021	01:03	01:16	0.22	2,362.00	2,449.00	87.00	401.54	Rotating	
09 Aug 2021	01:16	01:20	0.07	2,449.00	2,449.00			Survey & Connection	
09 Aug 2021	01:20	01:28	0.13	2,449.00	2,544.00	95.00	712.50	Rotating	
09 Aug 2021	01:28	01:32	0.07	2,544.00	2,544.00			Survey & Connection	
09 Aug 2021	01:32	01:38	0.10	2,544.00	2,554.00	10.00	100.00	Sliding	
09 Aug 2021	01:38	01:50	0.20	2,554.00	2,639.00	85.00	425.00	Rotating	
09 Aug 2021	01:50	01:54	0.07	2,639.00	2,639.00			Survey & Connection	Bottom Line Check - GOOD
09 Aug 2021	01:54	02:08	0.23	2,639.00	2,734.00	95.00	407.14	Rotating	
09 Aug 2021	02:08	02:12	0.07	2,734.00	2,734.00			Survey & Connection	
09 Aug 2021	02:12	02:18	0.10	2,734.00	2,745.00	11.00	110.00	Sliding	
09 Aug 2021	02:18	02:30	0.20	2,745.00	2,829.00	84.00	420.00	Rotating	
09 Aug 2021	02:30	02:34	0.07	2,829.00	2,829.00			Survey & Connection	
09 Aug 2021	02:34	02:44	0.17	2,829.00	2,924.00	95.00	570.00	Rotating	
09 Aug 2021	02:44	02:48	0.07	2,924.00	2,924.00			Survey & Connection	
09 Aug 2021	02:48	02:56	0.13	2,924.00	3,019.00	95.00	712.50	Rotating	
09 Aug 2021	02:56	03:00	0.07	3,019.00	3,019.00			Survey & Connection	
09 Aug 2021	03:00	03:05	0.08	3,019.00	3,025.00	6.00	72.00	Sliding	
09 Aug 2021	03:05	03:16	0.18	3,025.00	3,114.00	89.00	485.46	Rotating	
09 Aug 2021	03:16	03:20	0.07	3,114.00	3,114.00			Survey & Connection	
09 Aug 2021	03:20	03:30	0.17	3,114.00	3,114.00			Circulate and/or Condition Mud	Liner Washer Lines Plugged Up - Circ 390 Gpm's - 20 RPM
09 Aug 2021	03:30	03:42	0.20	3,114.00	3,209.00	95.00	475.00	Rotating	
09 Aug 2021	03:42	03:46	0.07	3,209.00	3,209.00			Survey & Connection	
09 Aug 2021	03:46	03:56	0.17	3,209.00	3,304.00	95.00	570.00	Rotating	
09 Aug 2021	03:56	04:00	0.07	3,304.00	3,304.00			Survey & Connection	
09 Aug 2021	04:00	04:10	0.17	3,304.00	3,399.00	95.00	570.00	Rotating	
09 Aug 2021	04:10	04:10	0.00	3,399.00	3,399.00			Survey & Connection	
09 Aug 2021	04:10	04:24	0.23	3,399.00	3,494.00	95.00	407.14	Rotating	
09 Aug 2021	04:24	04:28	0.07	3,494.00	3,494.00			Survey & Connection	
09 Aug 2021	04:28	04:33	0.08	3,494.00	3,502.00	8.00	96.00	Sliding	
09 Aug 2021	04:33	04:43	0.17	3,502.00	3,589.00	87.00	522.00	Rotating	
09 Aug 2021	04:43	04:47	0.07	3,589.00	3,589.00			Survey & Connection	
09 Aug 2021	04:47	05:00	0.22	3,589.00	3,600.00	11.00	50.77	Sliding	

8/31/2021 9:57 AM

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DJR Operating DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Activity Breakdown									
Date	Start Time	End Time	Hours	Start Depth (ft)	End Depth (ft)	Depth Drilled (ft)	Rate of Penetr'n (ft/hr)	Activity	Comment
09 Aug 2021	05:00	05:11	0.18	3,600.00	3,684.00	84.00	458.18	Rotating	
09 Aug 2021	05:11	05:15	0.07	3,684.00	3,684.00			Survey & Connection	
09 Aug 2021	05:15	05:46	0.52	3,684.00	3,704.00	20.00	38.71	Sliding	
09 Aug 2021	05:46	05:54	0.13	3,704.00	3,779.00	75.00	562.50	Rotating	
09 Aug 2021	05:54	05:59	0.08	3,779.00	3,779.00			Survey & Connection	
09 Aug 2021	05:59	06:03	0.07	3,779.00	3,794.00	15.00	225.00	Rotating	
09 Aug 2021	06:03	06:13	0.17	3,794.00	3,804.00	10.00	60.00	Sliding	
09 Aug 2021	06:13	06:21	0.13	3,804.00	3,874.00	70.00	525.00	Rotating	
09 Aug 2021	06:21	06:26	0.08	3,874.00	3,874.00			Survey & Connection	
09 Aug 2021	06:26	06:46	0.33	3,874.00	3,884.00	10.00	30.00	Rotating	
09 Aug 2021	06:46	07:02	0.27	3,884.00	3,890.00	6.00	22.50	Sliding	Stacking Weight
09 Aug 2021	07:02	07:15	0.22	3,890.00	3,969.00	79.00	364.62	Rotating	
09 Aug 2021	07:15	07:20	0.08	3,969.00	3,969.00			Survey & Connection	
09 Aug 2021	07:20	07:35	0.25	3,969.00	4,064.00	95.00	380.00	Rotating	
09 Aug 2021	07:35	07:39	0.07	4,064.00	4,064.00			Survey & Connection	
09 Aug 2021	07:39	08:44	1.08	4,064.00	4,064.00			Circulate and/or Condition Mud	
09 Aug 2021	08:44	10:16	1.53	4,064.00	4,064.00			Short Trip Out	
09 Aug 2021	10:16	12:10	1.90	4,064.00	4,064.00			Short Trip In	
09 Aug 2021	12:10	13:22	1.20	4,064.00	4,064.00			Circulate and/or Condition Mud	
09 Aug 2021	13:22	15:00	1.63	4,064.00	4,064.00			Tripping Out	
09 Aug 2021	15:00	15:30	0.50	4,064.00	4,064.00			Change BHA	L/D BHA
BHA #2 Curve									
09 Aug 2021	15:30	16:00	0.50	4,064.00	4,064.00			Change BHA	
09 Aug 2021	16:00	17:48	1.80	4,064.00	4,064.00			Tripping In	
09 Aug 2021	17:48	18:10	0.37	4,064.00	4,114.00	50.00	136.36	Sliding	
09 Aug 2021	18:10	18:20	0.17	4,114.00	4,140.00	26.00	156.00	Rotating	
09 Aug 2021	18:20	18:25	0.08	4,140.00	4,140.00			Survey & Connection	
09 Aug 2021	18:25	18:42	0.28	4,140.00	4,160.00	20.00	70.59	Rotating	
09 Aug 2021	18:42	18:46	0.07	4,160.00	4,160.00			Deviation Survey	
09 Aug 2021	18:46	19:24	0.63	4,160.00	4,235.00	75.00	118.42	Sliding	
09 Aug 2021	19:24	19:28	0.07	4,235.00	4,235.00			Survey & Connection	
09 Aug 2021	19:28	19:41	0.22	4,235.00	4,260.00	25.00	115.38	Rotating	
09 Aug 2021	19:41	20:04	0.38	4,260.00	4,316.00	56.00	146.09	Sliding	
09 Aug 2021	20:04	20:14	0.17	4,316.00	4,330.00	14.00	84.00	Rotating	
09 Aug 2021	20:14	20:19	0.08	4,330.00	4,330.00			Survey & Connection	
09 Aug 2021	20:19	20:34	0.25	4,330.00	4,395.00	65.00	260.00	Sliding	
09 Aug 2021	20:34	20:42	0.13	4,395.00	4,425.00	30.00	225.00	Rotating	
09 Aug 2021	20:42	20:47	0.08	4,425.00	4,425.00			Survey & Connection	
09 Aug 2021	20:47	21:06	0.32	4,425.00	4,485.00	60.00	189.47	Sliding	
09 Aug 2021	21:06	21:20	0.23	4,485.00	4,521.00	36.00	154.29	Rotating	
09 Aug 2021	21:20	21:25	0.08	4,521.00	4,521.00			Survey & Connection	
09 Aug 2021	21:25	21:48	0.38	4,521.00	4,587.00	66.00	172.17	Sliding	
09 Aug 2021	21:48	21:58	0.17	4,587.00	4,616.00	29.00	174.00	Rotating	
09 Aug 2021	21:58	22:02	0.07	4,616.00	4,616.00			Survey & Connection	
09 Aug 2021	22:02	22:57	0.92	4,616.00	4,711.00	95.00	103.64	Sliding	Lower GPM's To 550
09 Aug 2021	22:57	23:01	0.07	4,711.00	4,711.00			Survey & Connection	
09 Aug 2021	23:01	23:32	0.52	4,711.00	4,806.00	95.00	183.87	Sliding	
09 Aug 2021	23:32	23:37	0.08	4,806.00	4,806.00			Survey & Connection	
09 Aug 2021	23:37	00:10	0.55	4,806.00	4,901.00	95.00	172.73	Sliding	
10 Aug 2021	00:10	00:15	0.08	4,901.00	4,901.00			Survey & Connection	
10 Aug 2021	00:15	00:27	0.20	4,901.00	4,948.00	47.00	235.00	Sliding	
10 Aug 2021	00:27	00:31	0.07	4,948.00	4,948.00			Deviation Survey	
10 Aug 2021	00:31	00:52	0.35	4,948.00	4,996.00	48.00	137.14	Sliding	
10 Aug 2021	00:52	00:57	0.08	4,996.00	4,996.00			Survey & Connection	
10 Aug 2021	00:57	01:12	0.25	4,996.00	5,041.00	45.00	180.00	Sliding	
10 Aug 2021	01:12	01:17	0.08	5,041.00	5,041.00			Deviation Survey	
10 Aug 2021	01:17	01:33	0.27	5,041.00	5,091.00	50.00	187.50	Sliding	
10 Aug 2021	01:33	01:38	0.08	5,091.00	5,091.00			Survey & Connection	
10 Aug 2021	01:38	01:58	0.33	5,091.00	5,146.00	55.00	165.00	Sliding	
10 Aug 2021	01:58	02:02	0.07	5,146.00	5,146.00			Deviation Survey	
10 Aug 2021	02:02	03:45	1.72	5,146.00	5,146.00			Circulate and/or Condition Mud	



DJR Operating DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Activity Breakdown									
Date	Start Time	End Time	Hours	Start Depth (ft)	End Depth (ft)	Depth Drilled (ft)	Rate of Penetr'n (ft/hr)	Activity	Comment
10 Aug 2021	03:45	04:15	0.50	5,146.00	5,146.00			Short Trip Out	POOH T/ 4150'
10 Aug 2021	04:15	04:40	0.42	5,146.00	5,146.00			Short Trip In	
10 Aug 2021	04:40	05:35	0.92	5,146.00	5,146.00			Circulate and/or Condition Mud	
10 Aug 2021	05:35	07:20	1.75	5,146.00	5,146.00			Tripping Out	
10 Aug 2021	07:20	08:15	0.92	5,146.00	5,146.00			Change BHA	L/D BHA
10 Aug 2021	08:15	00:00	15.75	5,146.00	5,146.00			Standby	
BHA #3 Lateral									
26 Aug 2021	00:00	03:30	27.50	5,146.00	5,146.00			Standby	
27 Aug 2021	03:30	03:40	0.17	5,146.00	5,146.00			Other	Held Safety Meeting W/ Co Man And Rig Crew
27 Aug 2021	03:40	05:30	1.83	5,146.00	5,146.00			Change BHA	
27 Aug 2021	05:30	06:40	1.17	5,146.00	5,146.00			Tripping In	TIH T/ 1900'
27 Aug 2021	06:40	06:50	0.17	5,146.00	5,146.00			Circulate and/or Condition Mud	Circ - 200 GPM's @ 650 PSI
27 Aug 2021	06:50	07:05	0.25	5,146.00	5,146.00			Other	P/U Agitator
27 Aug 2021	07:05	07:12	0.12	5,146.00	5,146.00			Circulate and/or Condition Mud	Circ - 200 GPM's @ 900 PSI
27 Aug 2021	07:12	08:20	1.13	5,146.00	5,146.00			Tripping In	TIH T/ 4850'
27 Aug 2021	08:20	08:35	0.25	5,146.00	5,146.00			Other	Install Rot Head
27 Aug 2021	08:35	08:40	0.08	5,146.00	5,146.00			Tripping In	TIH T/ 5004' - Tag Cement
27 Aug 2021	08:40	08:45	0.08	5,146.00	5,146.00			Circulate and/or Condition Mud	Circ - Fill Pipe
27 Aug 2021	08:45	09:00	0.25	5,146.00	5,146.00			Circulate and/or Condition Mud	Drill Out Cement - 204 GPM's @ 1750 PSI - 20 RPM's
27 Aug 2021	09:00	09:05	0.08	5,146.00	5,146.00			Other	Change Out Transducer
27 Aug 2021	09:05	09:35	0.50	5,146.00	5,146.00			Circulate and/or Condition Mud	Drill Out Float @ 5091' - Shoe @ 5136' 204 GPM's @ 1600 PSI - 20 RPM's
27 Aug 2021	09:35	10:00	0.42	5,146.00	5,231.00	85.00	204.00	Rotating	
27 Aug 2021	10:00	10:05	0.08	5,231.00	5,231.00			Survey & Connection	
27 Aug 2021	10:05	10:12	0.12	5,231.00	5,240.00	9.00	77.14	Rotating	
27 Aug 2021	10:12	10:20	0.13	5,240.00	5,260.00	20.00	150.00	Sliding	
27 Aug 2021	10:20	10:36	0.27	5,260.00	5,324.00	64.00	240.00	Rotating	
27 Aug 2021	10:36	10:45	0.15	5,324.00	5,324.00			Survey & Connection	
27 Aug 2021	10:45	10:55	0.17	5,324.00	5,324.00			Circulate and/or Condition Mud	Recycle
27 Aug 2021	10:55	11:00	0.08	5,324.00	5,336.00	12.00	144.00	Rotating	
27 Aug 2021	11:00	11:10	0.17	5,336.00	5,349.00	13.00	78.00	Sliding	
27 Aug 2021	11:10	11:16	0.10	5,349.00	5,418.00	69.00	690.00	Rotating	
27 Aug 2021	11:16	11:20	0.07	5,418.00	5,418.00			Survey & Connection	
27 Aug 2021	11:20	11:39	0.32	5,418.00	5,512.00	94.00	296.84	Rotating	
27 Aug 2021	11:39	11:43	0.07	5,512.00	5,512.00			Survey & Connection	
27 Aug 2021	11:43	12:02	0.32	5,512.00	5,607.00	95.00	300.00	Rotating	
27 Aug 2021	12:02	12:06	0.07	5,607.00	5,607.00			Survey & Connection	
27 Aug 2021	12:06	12:26	0.33	5,607.00	5,701.00	94.00	282.00	Rotating	
27 Aug 2021	12:26	12:30	0.07	5,701.00	5,701.00			Survey & Connection	
27 Aug 2021	12:30	12:47	0.28	5,701.00	5,795.00	94.00	331.77	Rotating	
27 Aug 2021	12:47	12:51	0.07	5,795.00	5,795.00			Survey & Connection	
27 Aug 2021	12:51	13:13	0.37	5,795.00	5,889.00	94.00	256.36	Rotating	
27 Aug 2021	13:13	13:17	0.07	5,889.00	5,889.00			Survey & Connection	
27 Aug 2021	13:17	13:25	0.13	5,889.00	5,900.00	11.00	82.50	Rotating	
27 Aug 2021	13:25	13:30	0.08	5,900.00	5,912.00	12.00	144.00	Sliding	
27 Aug 2021	13:30	13:44	0.23	5,912.00	5,983.00	71.00	304.29	Rotating	
27 Aug 2021	13:44	13:48	0.07	5,983.00	5,983.00			Survey & Connection	
27 Aug 2021	13:48	14:05	0.28	5,983.00	6,077.00	94.00	331.77	Rotating	
27 Aug 2021	14:05	14:09	0.07	6,077.00	6,077.00			Survey & Connection	
27 Aug 2021	14:09	14:28	0.32	6,077.00	6,170.00	93.00	293.68	Rotating	
27 Aug 2021	14:28	14:32	0.07	6,170.00	6,170.00			Survey & Connection	
27 Aug 2021	14:32	14:37	0.08	6,170.00	6,180.00	10.00	120.00	Rotating	
27 Aug 2021	14:37	14:43	0.10	6,180.00	6,195.00	15.00	150.00	Sliding	
27 Aug 2021	14:43	14:58	0.25	6,195.00	6,258.00	63.00	252.00	Rotating	
27 Aug 2021	14:58	15:02	0.07	6,258.00	6,258.00			Survey & Connection	
27 Aug 2021	15:02	15:20	0.30	6,258.00	6,354.00	96.00	320.00	Rotating	
27 Aug 2021	15:20	15:24	0.07	6,354.00	6,354.00			Survey & Connection	
27 Aug 2021	15:24	15:46	0.37	6,354.00	6,446.00	92.00	250.91	Rotating	
27 Aug 2021	15:46	15:50	0.07	6,446.00	6,446.00			Survey & Connection	
27 Aug 2021	15:50	16:11	0.35	6,446.00	6,539.00	93.00	265.71	Rotating	
27 Aug 2021	16:11	16:15	0.07	6,539.00	6,539.00			Survey & Connection	



DJR Operating DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Activity Breakdown									
Date	Start Time	End Time	Hours	Start Depth (ft)	End Depth (ft)	Depth Drilled (ft)	Rate of Penetr'n (ft/hr)	Activity	Comment
27 Aug 2021	16:15	16:22	0.12	6,539.00	6,550.00	11.00	94.29	Rotating	
27 Aug 2021	16:22	16:28	0.10	6,550.00	6,565.00	15.00	150.00	Sliding	
27 Aug 2021	16:28	16:45	0.28	6,565.00	6,627.00	62.00	218.82	Rotating	
27 Aug 2021	16:45	16:49	0.07	6,627.00	6,627.00			Survey & Connection	
27 Aug 2021	16:49	17:08	0.32	6,627.00	6,720.00	93.00	293.68	Rotating	
27 Aug 2021	17:08	17:44	0.60	6,720.00	6,720.00			Service Rig	
27 Aug 2021	17:44	17:47	0.05	6,720.00	6,720.00			Survey & Connection	Bottom Line Check - GOOD
27 Aug 2021	17:47	17:50	0.05	6,720.00	6,730.00	10.00	200.00	Rotating	
27 Aug 2021	17:50	18:00	0.17	6,730.00	6,744.00	14.00	84.00	Sliding	
27 Aug 2021	18:00	18:16	0.27	6,744.00	6,812.00	68.00	255.00	Rotating	
27 Aug 2021	18:16	18:22	0.12	6,812.00	6,812.00			Survey & Connection	
27 Aug 2021	18:22	18:41	0.30	6,812.00	6,905.00	93.00	310.00	Rotating	
27 Aug 2021	18:41	18:46	0.10	6,905.00	6,905.00			Survey & Connection	
27 Aug 2021	18:46	19:00	0.22	6,905.00	6,998.00	93.00	429.23	Rotating	
27 Aug 2021	19:00	19:03	0.05	6,998.00	6,998.00			Survey & Connection	
27 Aug 2021	19:03	19:10	0.12	6,998.00	7,008.00	10.00	85.71	Rotating	
27 Aug 2021	19:10	19:19	0.15	7,008.00	7,022.00	14.00	93.33	Sliding	
27 Aug 2021	19:19	19:33	0.23	7,022.00	7,090.00	68.00	291.43	Rotating	
27 Aug 2021	19:33	19:36	0.05	7,090.00	7,090.00			Survey & Connection	
27 Aug 2021	19:36	19:41	0.08	7,090.00	7,100.00	10.00	120.00	Rotating	
27 Aug 2021	19:41	19:55	0.23	7,100.00	7,120.00	20.00	85.71	Sliding	
27 Aug 2021	19:55	20:08	0.22	7,120.00	7,182.00	62.00	286.15	Rotating	
27 Aug 2021	20:08	20:11	0.05	7,182.00	7,182.00			Survey & Connection	
27 Aug 2021	20:11	20:29	0.30	7,182.00	7,275.00	93.00	310.00	Rotating	
27 Aug 2021	20:29	20:32	0.05	7,275.00	7,275.00			Survey & Connection	
27 Aug 2021	20:32	20:37	0.08	7,275.00	7,285.00	10.00	120.00	Rotating	
27 Aug 2021	20:37	20:54	0.28	7,285.00	7,302.00	17.00	60.00	Sliding	
27 Aug 2021	20:54	21:07	0.22	7,302.00	7,367.00	65.00	300.00	Rotating	
27 Aug 2021	21:07	21:10	0.05	7,367.00	7,367.00			Survey & Connection	
27 Aug 2021	21:10	21:32	0.37	7,367.00	7,459.00	92.00	250.91	Rotating	
27 Aug 2021	21:32	21:35	0.05	7,459.00	7,459.00			Survey & Connection	
27 Aug 2021	21:35	21:57	0.37	7,459.00	7,550.00	91.00	248.18	Rotating	
27 Aug 2021	21:57	22:00	0.05	7,550.00	7,550.00			Survey & Connection	
27 Aug 2021	22:00	22:04	0.07	7,550.00	7,560.00	10.00	150.00	Rotating	
27 Aug 2021	22:04	22:18	0.23	7,560.00	7,580.00	20.00	85.71	Sliding	
27 Aug 2021	22:18	22:35	0.28	7,580.00	7,642.00	62.00	218.82	Rotating	
27 Aug 2021	22:35	22:38	0.05	7,642.00	7,642.00			Survey & Connection	
27 Aug 2021	22:38	22:43	0.08	7,642.00	7,652.00	10.00	120.00	Rotating	
27 Aug 2021	22:43	23:07	0.40	7,652.00	7,675.00	23.00	57.50	Sliding	
27 Aug 2021	23:07	23:22	0.25	7,675.00	7,734.00	59.00	236.00	Rotating	
27 Aug 2021	23:22	23:25	0.05	7,734.00	7,734.00			Survey & Connection	
27 Aug 2021	23:25	23:46	0.35	7,734.00	7,825.00	91.00	260.00	Rotating	
27 Aug 2021	23:46	23:49	0.05	7,825.00	7,825.00			Survey & Connection	Bottom Line Checked (ok)
27 Aug 2021	23:49	00:08	0.32	7,825.00	7,917.00	92.00	290.53	Rotating	
28 Aug 2021	00:08	00:11	0.05	7,917.00	7,917.00			Survey & Connection	
28 Aug 2021	00:11	00:32	0.35	7,917.00	8,009.00	92.00	262.86	Rotating	
28 Aug 2021	00:32	00:35	0.05	8,009.00	8,009.00			Survey & Connection	
28 Aug 2021	00:35	00:40	0.08	8,009.00	8,020.00	11.00	132.00	Rotating	
28 Aug 2021	00:40	01:15	0.58	8,020.00	8,045.00	25.00	42.86	Sliding	
28 Aug 2021	01:15	01:30	0.25	8,045.00	8,101.00	56.00	224.00	Rotating	
28 Aug 2021	01:30	01:33	0.05	8,101.00	8,101.00			Survey & Connection	
28 Aug 2021	01:33	01:55	0.37	8,101.00	8,193.00	92.00	250.91	Rotating	
28 Aug 2021	01:55	01:56	0.02	8,193.00	8,193.00			Survey & Connection	
28 Aug 2021	01:56	02:17	0.35	8,193.00	8,285.00	92.00	262.86	Rotating	
28 Aug 2021	02:17	02:20	0.05	8,285.00	8,285.00			Survey & Connection	
28 Aug 2021	02:20	02:26	0.10	8,285.00	8,295.00	10.00	100.00	Rotating	
28 Aug 2021	02:26	02:52	0.43	8,295.00	8,320.00	25.00	57.69	Sliding	
28 Aug 2021	02:52	03:06	0.23	8,320.00	8,378.00	58.00	248.57	Rotating	
28 Aug 2021	03:06	03:09	0.05	8,378.00	8,378.00			Survey & Connection	
28 Aug 2021	03:09	03:13	0.07	8,378.00	8,388.00	10.00	150.00	Rotating	
28 Aug 2021	03:13	03:35	0.37	8,388.00	8,402.00	14.00	38.18	Sliding	



DJR Operating
DJR, Bettonie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Activity Breakdown									
Date	Start Time	End Time	Hours	Start Depth (ft)	End Depth (ft)	Depth Drilled (ft)	Rate of Penetr'n (ft/hr)	Activity	Comment
28 Aug 2021	03:35	04:00	0.42	8,402.00	8,469.00	67.00	160.80	Rotating	
28 Aug 2021	04:00	04:03	0.05	8,469.00	8,469.00			Survey & Connection	
28 Aug 2021	04:03	04:25	0.37	8,469.00	8,561.00	92.00	250.91	Rotating	
28 Aug 2021	04:25	04:28	0.05	8,561.00	8,561.00			Survey & Connection	
28 Aug 2021	04:28	04:50	0.37	8,561.00	8,653.00	92.00	250.91	Rotating	Target TVD Change To 4877' TVD @ 10586' MD
28 Aug 2021	04:50	04:54	0.07	8,653.00	8,653.00			Survey & Connection	Bottom Line Check - GOOD
28 Aug 2021	04:54	05:00	0.10	8,653.00	8,667.00	14.00	140.00	Rotating	
28 Aug 2021	05:00	05:10	0.17	8,667.00	8,676.00	9.00	54.00	Sliding	
28 Aug 2021	05:10	05:27	0.28	8,676.00	8,746.00	70.00	247.06	Rotating	
28 Aug 2021	05:27	05:31	0.07	8,746.00	8,746.00			Survey & Connection	
28 Aug 2021	05:31	05:54	0.38	8,746.00	8,838.00	92.00	240.00	Rotating	
28 Aug 2021	05:54	05:57	0.05	8,838.00	8,838.00			Survey & Connection	
28 Aug 2021	05:57	06:26	0.48	8,838.00	8,931.00	93.00	192.41	Rotating	
28 Aug 2021	06:26	06:30	0.07	8,931.00	8,931.00			Survey & Connection	
28 Aug 2021	06:30	06:51	0.35	8,931.00	9,022.00	91.00	260.00	Rotating	
28 Aug 2021	06:51	06:55	0.07	9,022.00	9,022.00			Survey & Connection	
28 Aug 2021	06:55	07:20	0.42	9,022.00	9,114.00	92.00	220.80	Rotating	
28 Aug 2021	07:20	07:24	0.07	9,114.00	9,114.00			Survey & Connection	
28 Aug 2021	07:24	07:32	0.13	9,114.00	9,124.00	10.00	75.00	Rotating	
28 Aug 2021	07:32	07:45	0.22	9,124.00	9,134.00	10.00	46.15	Sliding	
28 Aug 2021	07:45	08:10	0.42	9,134.00	9,207.00	73.00	175.20	Rotating	
28 Aug 2021	08:10	08:14	0.07	9,207.00	9,207.00			Survey & Connection	
28 Aug 2021	08:14	08:37	0.38	9,207.00	9,299.00	92.00	240.00	Rotating	
28 Aug 2021	08:37	08:41	0.07	9,299.00	9,299.00			Survey & Connection	
28 Aug 2021	08:41	09:04	0.38	9,299.00	9,392.00	93.00	242.61	Rotating	
28 Aug 2021	09:04	09:08	0.07	9,392.00	9,392.00			Survey & Connection	
28 Aug 2021	09:08	09:16	0.13	9,392.00	9,402.00	10.00	75.00	Rotating	
28 Aug 2021	09:16	09:32	0.27	9,402.00	9,413.00	11.00	41.25	Sliding	
28 Aug 2021	09:32	09:55	0.38	9,413.00	9,484.00	71.00	185.22	Rotating	
28 Aug 2021	09:55	09:59	0.07	9,484.00	9,484.00			Survey & Connection	
28 Aug 2021	09:59	10:26	0.45	9,484.00	9,575.00	91.00	202.22	Rotating	
28 Aug 2021	10:26	10:30	0.07	9,575.00	9,575.00			Survey & Connection	
28 Aug 2021	10:30	10:55	0.42	9,575.00	9,668.00	93.00	223.20	Rotating	
28 Aug 2021	10:55	10:59	0.07	9,668.00	9,668.00			Survey & Connection	
28 Aug 2021	10:59	11:25	0.43	9,668.00	9,759.00	91.00	210.00	Rotating	
28 Aug 2021	11:25	11:29	0.07	9,759.00	9,759.00			Survey & Connection	
28 Aug 2021	11:29	11:38	0.15	9,759.00	9,774.00	15.00	100.00	Rotating	
28 Aug 2021	11:38	11:55	0.28	9,774.00	9,788.00	14.00	49.41	Sliding	
28 Aug 2021	11:55	12:17	0.37	9,788.00	9,851.00	63.00	171.82	Rotating	
28 Aug 2021	12:17	12:21	0.07	9,851.00	9,851.00			Survey & Connection	
28 Aug 2021	12:21	12:50	0.48	9,851.00	9,944.00	93.00	192.41	Rotating	
28 Aug 2021	12:50	12:54	0.07	9,944.00	9,944.00			Survey & Connection	
28 Aug 2021	12:54	13:04	0.17	9,944.00	9,954.00	10.00	60.00	Rotating	
28 Aug 2021	13:04	13:18	0.23	9,954.00	9,969.00	15.00	64.29	Sliding	
28 Aug 2021	13:18	13:42	0.40	9,969.00	10,036.00	67.00	167.50	Rotating	
28 Aug 2021	13:42	13:46	0.07	10,036.00	10,036.00			Survey & Connection	
28 Aug 2021	13:46	14:17	0.52	10,036.00	10,128.00	92.00	178.06	Rotating	
28 Aug 2021	14:17	14:21	0.07	10,128.00	10,128.00			Survey & Connection	
28 Aug 2021	14:21	14:46	0.42	10,128.00	10,221.00	93.00	223.20	Rotating	
28 Aug 2021	14:46	14:50	0.07	10,221.00	10,221.00			Survey & Connection	
28 Aug 2021	14:50	14:57	0.12	10,221.00	10,236.00	15.00	128.57	Rotating	
28 Aug 2021	14:57	15:09	0.20	10,236.00	10,251.00	15.00	75.00	Sliding	
28 Aug 2021	15:09	15:27	0.30	10,251.00	10,312.00	61.00	203.33	Rotating	
28 Aug 2021	15:27	15:31	0.07	10,312.00	10,312.00			Survey & Connection	
28 Aug 2021	15:31	16:01	0.50	10,312.00	10,404.00	92.00	184.00	Rotating	
28 Aug 2021	16:01	16:05	0.07	10,404.00	10,404.00			Survey & Connection	
28 Aug 2021	16:05	16:35	0.50	10,404.00	10,497.00	93.00	186.00	Rotating	
28 Aug 2021	16:35	16:39	0.07	10,497.00	10,497.00			Survey & Connection	
28 Aug 2021	16:39	17:02	0.38	10,497.00	10,586.00	89.00	232.17	Rotating	TD
28 Aug 2021	17:02	17:07	0.08	10,586.00	10,586.00			Deviation Survey	
28 Aug 2021	17:07	18:25	1.30	10,586.00	10,586.00			Circulate and/or Condition Mud	

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DJR Operating

DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Activity Breakdown															
Date	Start Time	End Time	Hours	Start Depth (ft)	End Depth (ft)	Depth Drilled (ft)	Rate of Penetr'n (ft/hr)	Activity	Comment						
28 Aug 2021	18:25	19:55	1.50	10,586.00	10,586.00			Tripping Out							
28 Aug 2021	19:55	21:00	1.08	10,586.00	10,586.00			Circulate and/or Condition Mud	Circulate sweeps						
28 Aug 2021	21:00	22:00	1.00	10,586.00	10,586.00			Tripping Out							
28 Aug 2021	22:00	22:25	0.42	10,586.00	10,586.00			Circulate and/or Condition Mud							
28 Aug 2021	22:25	01:13	2.80	10,586.00	10,586.00			Tripping In							
29 Aug 2021	01:13	03:10	1.95	10,586.00	10,586.00			Circulate and/or Condition Mud							
29 Aug 2021	03:10	09:15	6.08	10,586.00	10,586.00			Tripping Out							
29 Aug 2021	09:15	10:15	1.00	10,586.00	10,586.00			Change BHA							
29 Aug 2021	10:15	00:00	13.75	10,586.00	10,586.00			Standby	Casing / Cement Operations						

Slide Sheet															
Bit Depth (ft)	Survey Depth (ft)	Incl. (°)	(True) Azimuth (°)	Vertical Depth (ft)	Dogleg Rate (°/100ft)	Calc'd Toolface (°)	Build Rate (°/100ft)	Build Seen (°/ft)	Turn Rate (°/100ft)	Slide Seen (ft)	Motor Output (°/100ft)	Motor Output (°/ft)	Slide Length (ft)	Toolface Orient (°)	Rotate Length (ft)
BHA #1 Vertical															
381.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
507.00	444.00	1.18	211.25	443.97	0.27	-148.85	0.27								126.00
599.00	536.00	2.02	212.81	535.93	0.91	3.75	0.91	0.18	1.70	15.00	5.61	0.06	15.00	195 M	77.00
691.00	628.00	3.68	198.56	627.82	1.95	-30.34	1.80	0.32	-15.49	17.00	10.54	0.11	17.00	190 M	75.00
784.00	721.00	5.23	198.47	720.53	1.67	-0.30	1.67	0.28	-0.10	18.00	8.61	0.09	18.00	0	75.00
876.00	813.00	5.85	199.92	812.10	0.69	13.45	0.67		1.58						92.00
967.00	904.00	5.45	194.08	902.66	0.77	-127.71	-0.44	-0.33	-6.42	4.00	17.50	0.17	4.00	-90	87.00
1,061.00	998.00	5.65	197.64	996.22	0.42	61.63	0.21		3.79						94.00
1,151.00	1,088.00	5.81	198.01	1,085.77	0.18	13.18	0.18		0.41						90.00
1,241.00	1,178.00	5.75	193.25	1,175.31	0.54	-99.50	-0.07		-5.29						90.00
1,332.00	1,269.00	5.83	193.55	1,265.85	0.09	20.87	0.09		0.33						91.00
1,423.00	1,360.00	5.90	201.83	1,356.37	0.93	89.40	0.08		9.10						91.00
1,518.00	1,455.00	5.22	201.52	1,450.93	0.72	-177.63	-0.72		-0.33						95.00
1,608.00	1,545.00	5.81	202.39	1,540.51	0.66	8.50	0.66	0.28	0.97	7.00	8.51	0.09	7.00	-60	83.00
1,699.00	1,636.00	5.77	202.44	1,631.05	0.04	172.84	-0.04		0.05						91.00
1,788.00	1,725.00	5.16	205.93	1,719.64	0.78	153.14	-0.69		3.92						89.00
1,881.00	1,818.00	6.18	203.37	1,812.18	1.13	-15.20	1.10	0.22	-2.75	15.00	7.00	0.07	15.00	-30	78.00
1,975.00	1,912.00	5.75	200.51	1,905.68	0.56	-146.76	-0.46		-3.04						94.00
2,069.00	2,006.00	6.97	193.01	1,999.10	1.57	-38.02	1.30	0.50	-7.98	8.00	18.42	0.18	8.00	-40	86.00
2,164.00	2,101.00	7.06	198.12	2,093.39	0.66	84.34	0.09		5.38						95.00
2,259.00	2,196.00	7.50	197.58	2,187.62	0.47	-9.11	0.46		-0.57						95.00
2,354.00	2,291.00	8.35	194.43	2,281.71	1.00	-28.63	0.89		-3.32						95.00
2,449.00	2,386.00	7.01	196.20	2,375.86	1.43	170.87	-1.41	-0.55	1.86	8.00	17.01	0.17	8.00	180	87.00
2,544.00	2,481.00	7.31	200.97	2,470.12	0.70	65.60	0.32		5.02						95.00
2,639.00	2,576.00	6.32	192.95	2,564.45	1.44	-140.07	-1.04	-0.32	-8.44	10.00	13.71	0.14	10.00	-150	85.00
2,734.00	2,671.00	7.05	192.87	2,658.80	0.77	-0.77	0.77		-0.08						95.00
2,829.00	2,766.00	4.69	187.62	2,753.30	2.55	-169.78	-2.48	-0.70	-5.53	11.00	21.98	0.22	11.00	180	84.00
2,924.00	2,861.00	4.70	189.03	2,847.98	0.12	85.75	0.01		1.48						95.00
3,019.00	2,956.00	4.90	183.31	2,942.65	0.55	-70.19	0.21		-6.02						95.00
3,114.00	3,051.00	4.72	201.99	3,037.32	1.65	105.81	-0.19	-0.10	19.66	6.00	26.16	0.26	6.00	90	89.00
3,209.00	3,146.00	4.65	200.97	3,132.00	0.11	-130.55	-0.07		-1.07						95.00
3,304.00	3,241.00	5.05	205.18	3,226.66	0.56	43.78	0.42		4.43						95.00
3,399.00	3,336.00	5.01	198.88	3,321.30	0.58	-97.28	-0.04		-6.63						95.00
3,494.00	3,431.00	4.17	207.72	3,415.99	1.15	144.25	-0.88		9.31						95.00
3,589.00	3,526.00	4.64	197.17	3,510.71	0.98	-65.21	0.49	0.19	-11.11	8.00	11.68	0.12	8.00	-30	87.00
3,684.00	3,621.00	4.48	192.49	3,605.41	0.43	-115.59	-0.17	-0.05	-4.93	11.00	3.68	0.04	11.00	0	84.00
3,779.00	3,716.00	6.20	187.95	3,700.00	1.86	-16.07	1.81	0.28	-4.78	20.00	8.85	0.09	20.00	0	75.00
3,874.00	3,811.00	6.33	188.29	3,794.43	0.14	16.10	0.14	0.04	0.36	10.00	1.35	0.01	10.00	0	85.00
3,969.00	3,906.00	6.53	185.56	3,888.83	0.38	-58.17	0.21	0.11	-2.87	6.00	6.09	0.06	6.00	0	89.00
4,064.00	4,001.00	5.19	183.47	3,983.33	1.43	-171.99	-1.41		-2.20						95.00
BHA #2 Curve															
4,064.00	4,001.00	5.19	183.47	3,983.33	0.00	0.00	0.00								
4,140.00	4,084.00	4.59	223.24	4,066.05	4.06	119.46	-0.72	-0.10	47.92	20.00	16.85	0.17	50.00	85	26.00
4,160.00	4,104.00	5.54	244.70	4,085.98	10.51	74.33	4.75	0.16	107.30	20.00	10.51	0.11			20.00
4,235.00	4,179.00	7.18	274.29	4,160.53	4.81	78.64	2.19	0.19	39.45	29.00	12.45	0.12	75.00	70	
4,330.00	4,274.00	12.11	304.42	4,254.22	7.26	61.23	5.19	0.23	31.72	70.00	9.86	0.10	56.00	0	39.00



DJR Operating

DJR, Bettonie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

Slide Sheet															
Bit Depth (ft)	Survey Depth (ft)	Incl. (°)	(True) Azimuth (°)	Vertical Depth (ft)	Dogleg Rate (°/100ft)	Calc'd Toolface (°)	Build Rate (°/100ft)	Build Seen (°/ft)	Turn Rate (°/100ft)	Slide Seen (ft)	Motor Output (°/100ft)	Motor Output (°/ft)	Slide Length (ft)	Toolface Orient (°)	Rotate Length (ft)
4,425.00	4,369.00	20.42	315.89	4,345.36	9.34	26.74	8.75	0.34	12.07	81.00	10.95	0.11	65.00	0	30.00
4,521.00	4,465.00	26.94	319.01	4,433.23	6.91	12.32	6.79	0.32	3.25	66.00	10.06	0.10	60.00	-10	36.00
4,616.00	4,560.00	30.69	316.81	4,516.45	4.10	-16.76	3.95	0.21	-2.32	59.00	6.60	0.07	66.00	-20	29.00
4,711.00	4,655.00	34.49	315.32	4,596.48	4.09	-12.56	4.00	0.19	-1.57	66.00	5.88	0.06	95.00	0	
4,806.00	4,750.00	40.98	319.26	4,671.58	7.28	21.96	6.83	0.22	4.15	95.00	7.28	0.07	95.00	0	
4,901.00	4,845.00	48.50	315.54	4,739.03	8.38	-20.54	7.92	0.26	-3.92	95.00	8.38	0.08	95.00	-20	
4,948.00	4,892.00	54.00	313.70	4,768.44	12.09	-15.21	11.70	0.38	-3.91	47.00	12.09	0.12	47.00	0	
4,996.00	4,940.00	59.53	313.59	4,794.73	11.52	-0.98	11.52	0.38	-0.23	48.00	11.52	0.12	48.00	0	
5,041.00	4,985.00	65.43	313.70	4,815.52	13.11	0.97	13.11	0.43	0.24	45.00	13.11	0.13	45.00	0	
5,091.00	5,035.00	71.12	313.74	4,834.02	11.38	0.38	11.38	0.37	0.08	50.00	11.38	0.11	50.00	-30	
5,146.00	5,090.00	77.52	312.49	4,848.87	11.84	-10.82	11.64	0.38	-2.27	55.00	11.84	0.12	55.00	-15	
BHA #3 Lateral															
5,146.00	5,090.00	77.52	312.49	4,848.87	0.00	0.00	0.00								
5,231.00	5,171.00	83.67	310.91	4,862.10	7.83	-14.36	7.59		-1.95						85.00
5,324.00	5,264.00	86.57	312.58	4,870.02	3.60	29.92	3.12	0.48	1.80	20.00	16.72	0.17	20.00	20	73.00
5,418.00	5,358.00	89.17	312.76	4,873.51	2.77	3.96	2.77	0.66	0.19	13.00	20.05	0.20	13.00	0	81.00
5,512.00	5,452.00	89.47	312.50	4,874.62	0.42	-40.91	0.32		-0.28						94.00
5,607.00	5,547.00	90.09	312.58	4,874.99	0.66	7.35	0.65		0.08						95.00
5,701.00	5,641.00	90.18	312.06	4,874.77	0.56	-80.18	0.10		-0.55						94.00
5,795.00	5,735.00	90.57	312.06	4,874.15	0.41	0.00	0.41								94.00
5,889.00	5,829.00	90.57	311.97	4,873.22	0.10	-90.00	0.00		-0.10						94.00
5,983.00	5,923.00	90.26	314.17	4,872.54	2.36	98.01	-0.33	-0.08	2.34	12.00	18.51	0.19	12.00	110	82.00
6,077.00	6,017.00	90.26	313.11	4,872.11	1.13	-90.00	0.00		-1.13						94.00
6,170.00	6,110.00	90.09	312.85	4,871.83	0.33	-123.18	-0.18		-0.28						93.00
6,258.00	6,198.00	88.20	314.34	4,873.14	2.73	141.76	-2.15	-0.41	1.69	15.00	16.04	0.16	15.00	120	73.00
6,354.00	6,294.00	88.20	314.00	4,876.15	0.35	-90.01	0.00		-0.35						96.00
6,446.00	6,386.00	88.77	314.61	4,878.59	0.91	46.94	0.62		0.66						92.00
6,539.00	6,479.00	88.60	313.55	4,880.72	1.15	-99.13	-0.18		-1.14						93.00
6,627.00	6,567.00	88.99	314.78	4,882.57	1.47	72.42	0.44	0.09	1.40	15.00	8.60	0.09	15.00	60	73.00
6,720.00	6,660.00	88.59	314.25	4,884.54	0.71	-127.05	-0.43		-0.57						93.00
6,812.00	6,752.00	91.76	314.61	4,884.25	3.47	6.48	3.45	0.74	0.39	14.00	22.79	0.23	14.00	20	78.00
6,905.00	6,845.00	91.58	313.20	4,881.54	1.53	-97.26	-0.19		-1.52						93.00
6,998.00	6,938.00	91.49	311.97	4,879.05	1.33	-94.17	-0.10		-1.32						93.00
7,090.00	7,030.00	89.69	313.11	4,878.11	2.32	147.65	-1.96	-0.42	1.24	14.00	15.22	0.15	14.00	120	78.00
7,182.00	7,122.00	90.40	314.96	4,878.03	2.15	69.01	0.77	0.12	2.01	20.00	9.91	0.10	20.00	90	72.00
7,275.00	7,215.00	89.87	314.08	4,877.81	1.10	-121.06	-0.57		-0.95						93.00
7,367.00	7,307.00	88.86	315.40	4,878.83	1.81	127.43	-1.10	-0.19	1.43	17.00	9.78	0.10	17.00	90	75.00
7,459.00	7,399.00	88.68	314.78	4,880.81	0.70	-106.20	-0.20		-0.67						92.00
7,550.00	7,490.00	87.89	313.46	4,883.53	1.69	-120.93	-0.87		-1.45						91.00
7,642.00	7,582.00	89.56	313.99	4,885.58	1.90	17.61	1.82	0.27	0.58	20.00	8.76	0.09	20.00	50	72.00
7,734.00	7,674.00	91.19	317.07	4,884.98	3.79	62.11	1.77	0.24	3.35	22.00	15.84	0.16	23.00	70	69.00
7,825.00	7,765.00	91.67	316.45	4,882.71	0.86	-52.24	0.53	1.57	-0.68	1.00	78.39	0.78			91.00
7,917.00	7,857.00	91.27	315.40	4,880.35	1.22	-110.85	-0.43		-1.14						92.00
8,009.00	7,949.00	90.00	313.11	4,879.33	2.85	-119.00	-1.38		-2.49						92.00
8,101.00	8,041.00	90.79	315.66	4,878.69	2.90	72.78	0.86	0.12	2.77	21.00	12.71	0.13	25.00	90	67.00
8,193.00	8,133.00	90.48	314.96	4,877.67	0.83	-113.88	-0.34	-0.25	-0.76	4.00	19.14	0.19			92.00
8,285.00	8,225.00	89.47	312.94	4,877.71	2.45	-116.56	-1.10		-2.20						92.00
8,378.00	8,318.00	91.19	315.40	4,877.18	3.23	55.04	1.85	0.25	2.65	23.00	13.05	0.13	25.00	90	68.00
8,469.00	8,409.00	91.19	317.15	4,875.29	1.92	89.98	0.00	0.00	1.92	16.00	10.94	0.11	14.00	90	77.00
8,561.00	8,501.00	91.10	316.54	4,873.45	0.67	-98.39	-0.10		-0.66						92.00
8,653.00	8,593.00	91.36	316.28	4,871.47	0.40	-44.99	0.28		-0.28						92.00
8,746.00	8,686.00	89.87	317.24	4,870.47	1.91	147.20	-1.60	-0.54	1.03	9.00	19.69	0.20	9.00	150	84.00
8,838.00	8,778.00	90.00	316.36	4,870.58	0.97	-81.60	0.14		-0.96						92.00
8,931.00	8,871.00	90.09	316.36	4,870.51	0.10	0.00	0.10								93.00
9,022.00	8,962.00	90.26	315.84	4,870.23	0.60	-71.90	0.19		-0.57						91.00
9,114.00	9,054.00	90.57	315.48	4,869.56	0.52	-49.27	0.34		-0.39						92.00
9,207.00	9,147.00	89.56	315.83	4,869.46	1.15	160.89	-1.09	-0.33	0.38	10.00	10.69	0.11	10.00	140	83.00
9,299.00	9,239.00	89.67	315.31	4,870.07	0.58	-78.06	0.12		-0.57						92.00
9,392.00	9,332.00	90.26	315.05	4,870.13	0.69	-23.78	0.63		-0.28						93.00
9,484.00	9,424.00	89.30	316.01	4,870.48	1.48	135.00	-1.04	-0.29	1.04	11.00	12.34	0.12	11.00	140	81.00
9,575.00	9,515.00	89.69	315.75	4,871.29	0.52	-33.69	0.43		-0.29						91.00



DJR Operating
DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

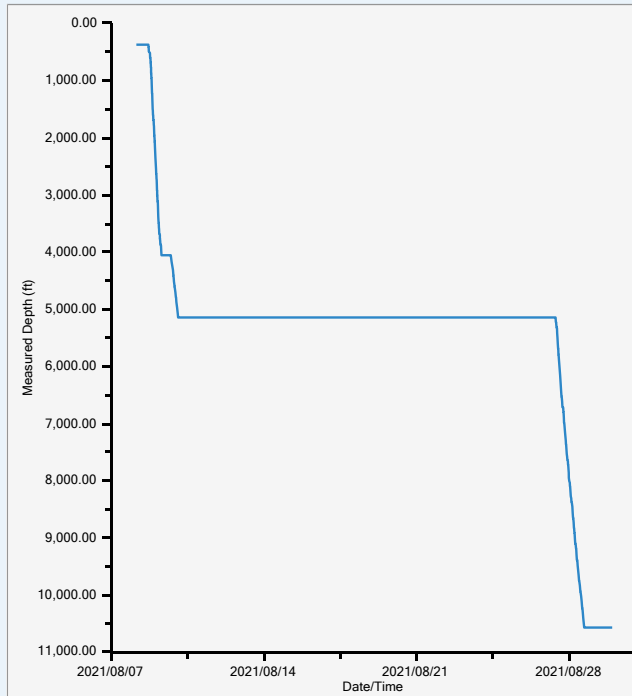
Slide Sheet															
Bit Depth (ft)	Survey Depth (ft)	Incl. (°)	(True) Azimuth (°)	Vertical Depth (ft)	Dogleg Rate (°/100ft)	Calc'd Toolface (°)	Build Rate (°/100ft)	Build Seen (°/ft)	Turn Rate (°/100ft)	Slide Seen (ft)	Motor Output (°/100ft)	Motor Output (°/ft)	Slide Length (ft)	Toolface Orient (°)	Rotate Length (ft)
9,668.00	9,608.00	90.26	315.40	4,871.33	0.72	-31.55	0.61		-0.38						93.00
9,759.00	9,699.00	90.57	314.96	4,870.67	0.59	-54.83	0.34		-0.48						91.00
9,851.00	9,791.00	90.00	316.45	4,870.21	1.73	110.93	-0.62	-0.13	1.62	14.00	11.39	0.11	14.00	140	78.00
9,944.00	9,884.00	90.79	315.75	4,869.57	1.13	-41.54	0.85		-0.75						93.00
10,036.00	9,976.00	89.47	317.86	4,869.36	2.71	122.02	-1.43	-0.29	2.29	15.00	16.59	0.17	15.00	140	77.00
10,128.00	10,068.00	90.09	318.03	4,869.71	0.70	15.33	0.67		0.18						92.00
10,221.00	10,161.00	90.57	317.15	4,869.18	1.08	-61.39	0.52		-0.95						93.00
10,312.00	10,252.00	89.08	315.75	4,869.46	2.25	-136.78	-1.64	-0.33	-1.54	15.00	13.63	0.14	15.00	-150	76.00
10,404.00	10,344.00	89.56	315.05	4,870.55	0.92	-55.56	0.52		-0.76						92.00
10,497.00	10,437.00	90.40	314.78	4,870.58	0.95	-17.82	0.90		-0.29						93.00
10,586.00	10,526.00	91.10	314.08	4,869.42	1.11	-44.99	0.79		-0.79						89.00



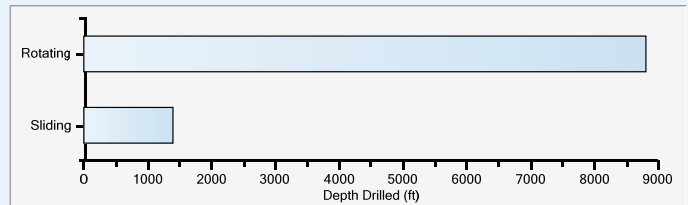
DJR Operating DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

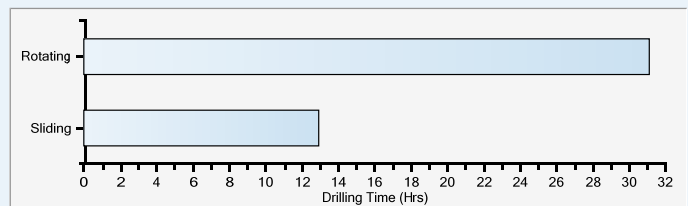
Time vs Depth



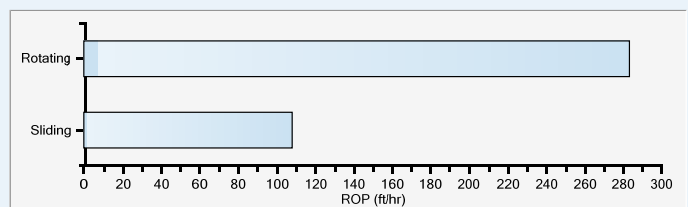
Depth Drilled



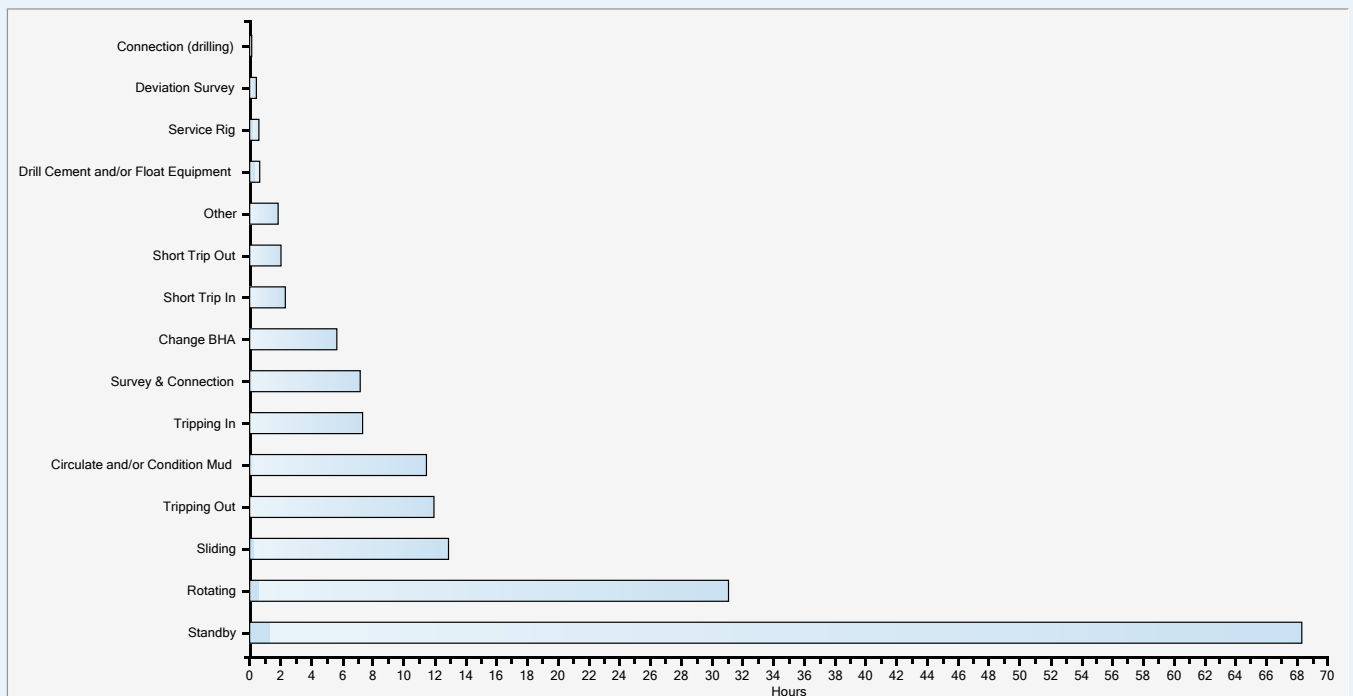
Drilling Time



Average Rate of Penetration



Activity





DJR Operating
DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 509H

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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

ACKNOWLEDGMENTS

Action 91107

ACKNOWLEDGMENTS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 91107
	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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CONDITIONS

Action 91107

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 91107
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CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 7/22/2022.	5/2/2022