

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 30-045-38234	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 506H

II. ¹⁰ Surface Location

Ul or lot no. G	Section 34	Township 23N	Range 08W	Lot Idn	Feet from the 1474'	North/South Line North	Feet from the 2329'	East/West line East	County San Juan
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¹¹ Bottom Hole Location

UL or lot no. N	Section 35	Township 23N	Range 08W	Lot Idn	Feet from the 919'	North/South line South	Feet from the 1789'	East/West line West	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 07/15/21	²² Ready Date 04/22/21	²³ TD 9,537' MD 4,832' TVD	²⁴ PBTD 9,516' MD 4,832' TVD	²⁵ Perforations 5,661'-9,460' MD 4,885'- 4,831' TVD Frac Sleeve @ 9,494'	²⁶ DHC, MC	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
12.25		9.625" 36# J55		357'		109
8.75		7" 26# J55		5,386'		605
6.125		4.5" 11.6# P110		TOL: 4,988' BOL: 9,531'		382

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 7/22/22</i>		

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: (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 30-045-38234	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 506H
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		1474'	NORTH	2329'	EAST	SAN JUAN

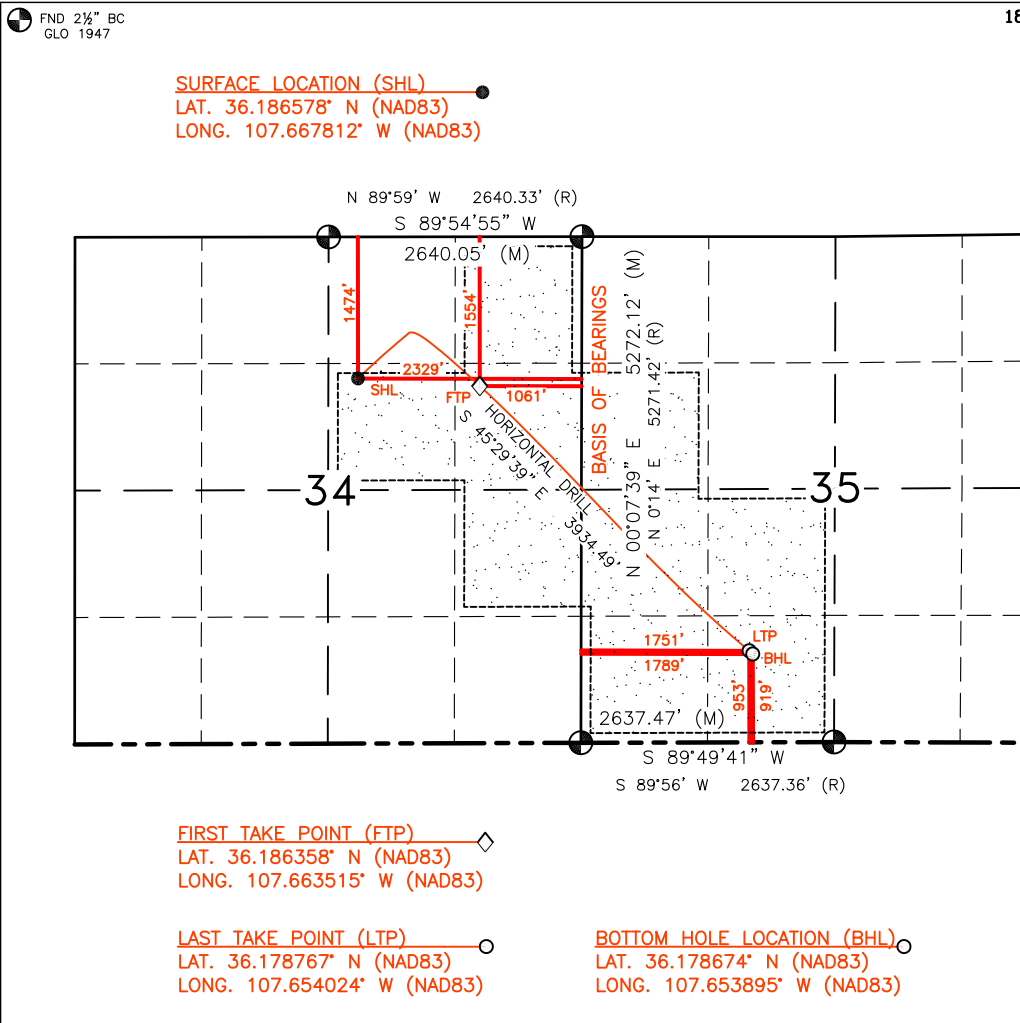
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	23N	8W		919'	SOUTH	1789'	WEST	SAN JUAN

¹² Dedicated Acres SEC 34: SW/NE, NE/NE, SE/NE & NE/SE (160 AC.); SEC 35: SW/4 & SW/NW (200 AC.) = 360 ACRES	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13930 R-13930A
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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 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 30, 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.	Betonne Tsosie Unit G34 2308 506H
County & State	San Juan, NM
SDI Job No.	OP.030198
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 535 feet to a measured depth of 9,537 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

24-Aug-21

Date

Janie Collins
Contract Well Planner
Scientific Drilling International



DJR Operating

Betonne Tsoie Unit

G34 2308 Pad

506H - Slot 4

Original Drilling

Design: Original Drilling

Standard Survey Report

24 August, 2021



www.scientificdrilling.com





Scientific Drilling Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 506H - Slot 4
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:	# 506H	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	Latitude:	36.18657800
From:	Lat/Long	Easting:	2,771,935.23 usft	Longitude:	-107.66781200
Position Uncertainty:	0 ft	Slot Radius:	13.20 in	Grid Convergence:	0.10 °

Well		# 506H - Slot 4				
Well Position	+N/-S	0 ft	Northing:	1,887,253.23 usft	Latitude:	36.18657800
	+E/-W	0 ft	Easting:	2,771,935.23 usft	Longitude:	-107.66781200
Position Uncertainty		0 ft	Wellhead Elevation:	ft	Ground Level:	6834 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021_FILE	8/14/2021	8.57	62.68	49,156.90000000

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	125.15	

Survey Program	Date	8/24/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
535	4158	Survey #1 - Surface MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
4179	5455	Survey #2 - Curve MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
5547	9537	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	
535	1.33	162.81	535	-6	2	5	0.25	0.25	0.00	
628	2.88	157.00	628	-9	3	8	1.68	1.67	-6.25	
662	3.10	155.06	662	-11	4	9	0.71	0.65	-5.71	
689	2.51	140.92	689	-12	4	10	3.35	-2.19	-52.37	
720	1.99	105.05	720	-13	5	12	4.75	-1.68	-115.71	
760	2.08	91.86	760	-13	7	13	1.19	0.23	-32.98	
782	2.19	75.82	782	-13	8	14	2.75	0.50	-72.91	
812	2.94	53.64	812	-12	9	14	4.10	2.50	-73.93	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 506H - Slot 4
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:	# 506H	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)
852	3.42	38.15	852	-10	10	15	2.45	1.20	-38.73
872	4.13	40.20	872	-9	11	15	3.61	3.55	10.25
949	6.28	34.29	948	-4	15	15	2.87	2.79	-7.68
997	8.18	32.57	996	1	19	15	3.98	3.96	-3.58
1087	10.65	32.66	1085	14	27	14	2.74	2.74	0.10
1178	12.28	34.38	1174	29	37	13	1.83	1.79	1.89
1268	12.99	35.74	1262	45	48	13	0.86	0.79	1.51
1360	14.40	40.96	1351	62	61	15	2.04	1.53	5.67
1453	11.89	39.48	1442	78	75	17	2.72	-2.70	-1.59
1544	11.43	46.19	1531	91	88	19	1.57	-0.51	7.37
1635	12.31	46.26	1620	104	101	23	0.97	0.97	0.08
1724	13.84	49.64	1707	118	116	27	1.92	1.72	3.80
1817	12.48	49.59	1797	132	132	32	1.46	-1.46	-0.05
1911	13.42	47.31	1889	145	148	37	1.14	1.00	-2.43
2006	13.82	47.54	1981	161	164	42	0.42	0.42	0.24
2101	16.60	51.77	2073	177	183	48	3.15	2.93	4.45
2196	17.85	53.07	2163	194	206	57	1.38	1.32	1.37
2290	16.91	53.81	2253	211	228	65	1.03	-1.00	0.79
2385	16.80	54.41	2344	227	251	74	0.22	-0.12	0.63
2480	15.38	49.82	2435	243	271	82	2.01	-1.49	-4.83
2575	13.87	46.83	2527	259	289	88	1.78	-1.59	-3.15
2670	11.32	47.39	2620	273	305	92	2.69	-2.68	0.59
2765	10.03	45.95	2713	285	317	95	1.39	-1.36	-1.52
2860	9.26	50.47	2807	296	329	99	1.14	-0.81	4.76
2955	10.89	50.44	2900	306	342	103	1.72	1.72	-0.03
3050	12.42	49.41	2994	318	357	108	1.63	1.61	-1.08
3145	11.32	49.39	3086	331	372	113	1.16	-1.16	-0.02
3240	12.91	50.39	3179	344	387	118	1.69	1.67	1.05
3335	12.21	49.66	3272	357	403	123	0.76	-0.74	-0.77
3430	11.28	50.53	3365	370	417	128	1.00	-0.98	0.92
3525	10.81	45.62	3458	382	431	133	1.11	-0.49	-5.17
3620	9.90	43.76	3552	394	443	135	1.02	-0.96	-1.96
3715	10.12	45.67	3645	406	455	138	0.42	0.23	2.01
3810	12.58	48.36	3738	418	468	142	2.65	2.59	2.83
3905	11.28	45.98	3831	432	483	146	1.46	-1.37	-2.51
4000	10.99	52.19	3925	444	497	151	1.30	-0.31	6.54
4095	10.31	47.37	4018	455	510	155	1.18	-0.72	-5.07
4158	8.83	45.73	4080	462	518	157	2.39	-2.35	-2.60
4179	9.63	46.63	4101	465	520	158	3.87	3.81	4.29
4274	11.50	52.72	4194	476	533	162	2.29	1.97	6.41
4338	15.68	82.89	4257	481	547	170	12.65	6.53	47.14
4369	18.36	88.29	4286	481	556	178	10.03	8.65	17.42
4464	26.44	111.32	4374	474	591	210	12.41	8.51	24.24



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 506H - Slot 4
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:	# 506H	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)
4559	33.48	120.41	4456	453	633	257	8.80	7.41	9.57
4654	35.58	119.79	4535	426	680	310	2.24	2.21	-0.65
4749	37.20	121.98	4611	397	728	367	2.19	1.71	2.31
4844	45.62	130.08	4682	360	779	429	10.49	8.86	8.53
4939	53.17	130.43	4744	313	834	501	7.95	7.95	0.37
5034	66.41	132.08	4792	259	895	583	14.02	13.94	1.74
5129	75.99	130.43	4822	200	963	672	10.22	10.08	-1.74
5224	79.08	130.12	4843	140	1033	764	3.27	3.25	-0.33
5319	82.12	131.72	4858	79	1104	858	3.61	3.20	1.68
5455	85.57	133.55	4873	-13	1204	992	2.87	2.54	1.35
5547	85.57	136.84	4880	-78	1268	1082	3.57	0.00	3.58
5640	88.32	135.33	4885	-145	1333	1173	3.37	2.96	-1.62
5734	91.88	134.84	4885	-211	1399	1266	3.82	3.79	-0.52
5825	92.28	135.05	4882	-276	1463	1355	0.50	0.44	0.23
5918	89.77	136.15	4880	-342	1529	1447	2.95	-2.70	1.18
6011	89.53	135.38	4881	-409	1593	1538	0.87	-0.26	-0.83
6103	91.28	135.85	4880	-474	1658	1629	1.97	1.90	0.51
6195	91.71	135.92	4877	-540	1722	1719	0.47	0.47	0.08
6288	91.98	135.75	4874	-607	1787	1810	0.34	0.29	-0.18
6380	90.03	133.37	4873	-672	1852	1901	3.34	-2.12	-2.59
6472	91.37	132.82	4872	-734	1919	1992	1.57	1.46	-0.60
6564	89.90	131.86	4871	-796	1987	2083	1.91	-1.60	-1.04
6656	92.42	133.12	4869	-858	2055	2175	3.06	2.74	1.37
6747	92.98	133.62	4865	-921	2121	2265	0.82	0.62	0.55
6839	91.17	133.55	4861	-984	2188	2355	1.97	-1.97	-0.08
6931	91.27	133.37	4859	-1048	2254	2446	0.22	0.11	-0.20
7023	91.84	137.58	4857	-1113	2319	2537	4.62	0.62	4.58
7114	89.78	137.52	4855	-1180	2380	2626	2.26	-2.26	-0.07
7207	89.63	137.30	4856	-1249	2443	2717	0.29	-0.16	-0.24
7299	89.77	136.37	4856	-1316	2506	2807	1.02	0.15	-1.01
7391	91.07	137.94	4856	-1383	2569	2897	2.22	1.41	1.71
7483	90.27	138.68	4855	-1452	2630	2986	1.18	-0.87	0.80
7574	88.86	137.95	4855	-1520	2690	3075	1.74	-1.55	-0.80
7666	88.81	137.96	4857	-1588	2752	3165	0.06	-0.05	0.01
7760	88.86	136.86	4859	-1657	2816	3256	1.17	0.05	-1.17
7852	88.29	135.49	4861	-1724	2879	3347	1.61	-0.62	-1.49
7944	89.97	133.15	4863	-1788	2945	3438	3.13	1.83	-2.54
8036	90.10	133.17	4863	-1851	3012	3529	0.14	0.14	0.02
8128	91.01	134.63	4862	-1915	3079	3620	1.87	0.99	1.59
8221	91.61	135.72	4860	-1981	3144	3711	1.34	0.65	1.17
8313	91.31	135.11	4857	-2046	3209	3802	0.74	-0.33	-0.66
8405	91.61	135.79	4855	-2112	3273	3892	0.81	0.33	0.74
8497	88.56	133.99	4855	-2177	3338	3983	3.85	-3.32	-1.96



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 506H - Slot 4
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:	# 506H	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)
8589	88.56	134.19	4857	-2241	3404	4074	0.22	0.00	0.22
8681	88.02	133.87	4860	-2305	3471	4164	0.68	-0.59	-0.35
8773	88.05	131.73	4863	-2367	3538	4256	2.32	0.03	-2.33
8865	89.90	130.97	4865	-2428	3607	4347	2.17	2.01	-0.83
8958	90.60	131.57	4864	-2489	3677	4439	0.99	0.75	0.65
9049	93.66	131.13	4861	-2549	3745	4530	3.40	3.36	-0.48
9141	93.46	131.25	4855	-2610	3814	4621	0.25	-0.22	0.13
9234	93.76	131.06	4849	-2671	3884	4713	0.38	0.32	-0.20
9325	93.03	131.36	4844	-2731	3953	4804	0.87	-0.80	0.33
9417	93.39	130.91	4839	-2791	4022	4895	0.63	0.39	-0.49
9486	93.59	131.02	4835	-2836	4074	4964	0.33	0.29	0.16
9537	93.59	131.02	4832	-2870	4112	5014	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
506H Toe	0.00	0.00	4855	-2864	4068	1,884,395.81	2,776,007.71	36.17870850	-107.65402910
- actual wellpath misses target center by 35ft at 9486ft MD (4835 TVD, -2836 N, 4074 E)									
- Circle (radius 100)									
506H 85° Casing	0.00	0.00	4868	152	1039	1,887,407.21	2,772,973.89	36.18699608	-107.66429127
- actual wellpath misses target center by 28ft at 5224ft MD (4843 TVD, 140 N, 1034 E)									
- Point									
506H Heel	0.00	0.00	4883	-20	1226	1,887,235.11	2,773,161.36	36.18652240	-107.66365700
- actual wellpath misses target center by 13ft at 5477ft MD (4875 TVD, -28 N, 1219 E)									
- Circle (radius 50)									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
535	535	-6	2	First Surface MWD Survey
4158	4080	462	518	Last Surface MWD Survey
4179	4101	465	520	First Curve MWD Survey
5455	4873	-13	1204	Last Curve MWD Survey
5547	4880	-78	1268	First Lateral MWD Survey
9486	4835	-2836	4074	Last Lateral MWD Survey
9537	4832	-2870	4112	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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DJR

Betonne Tsoie Unit

G34 2308 Pad

#506H

End of Well Report



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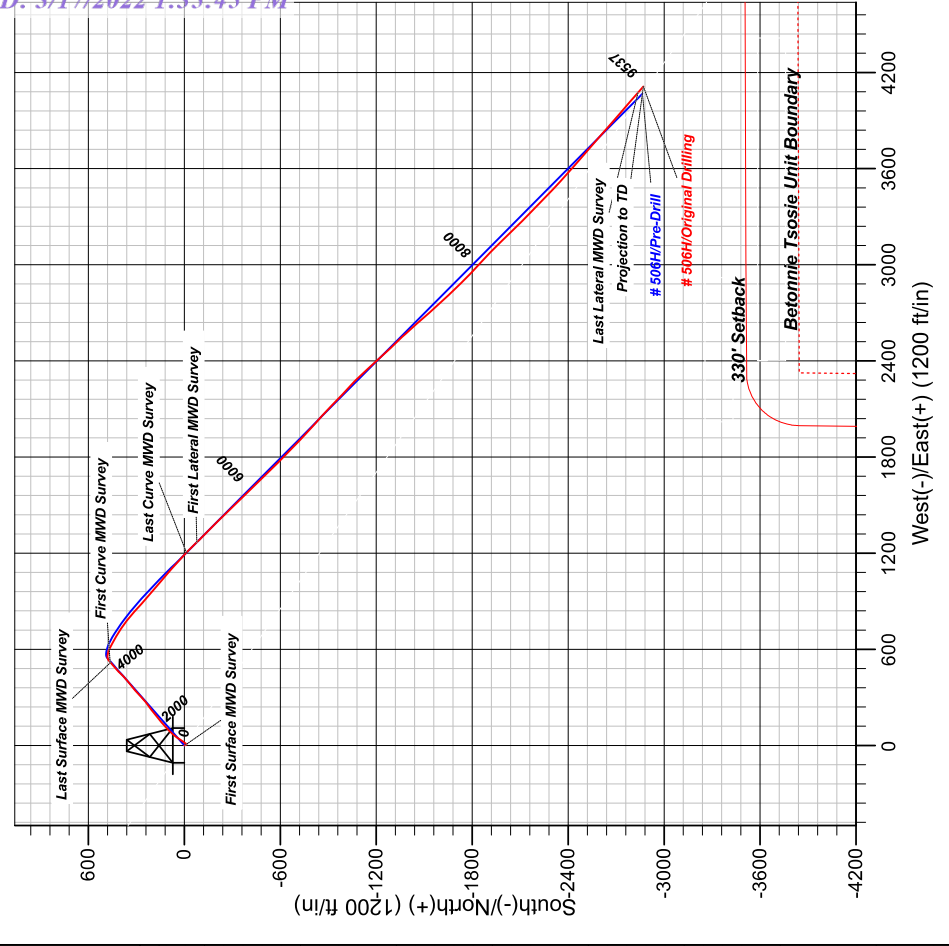
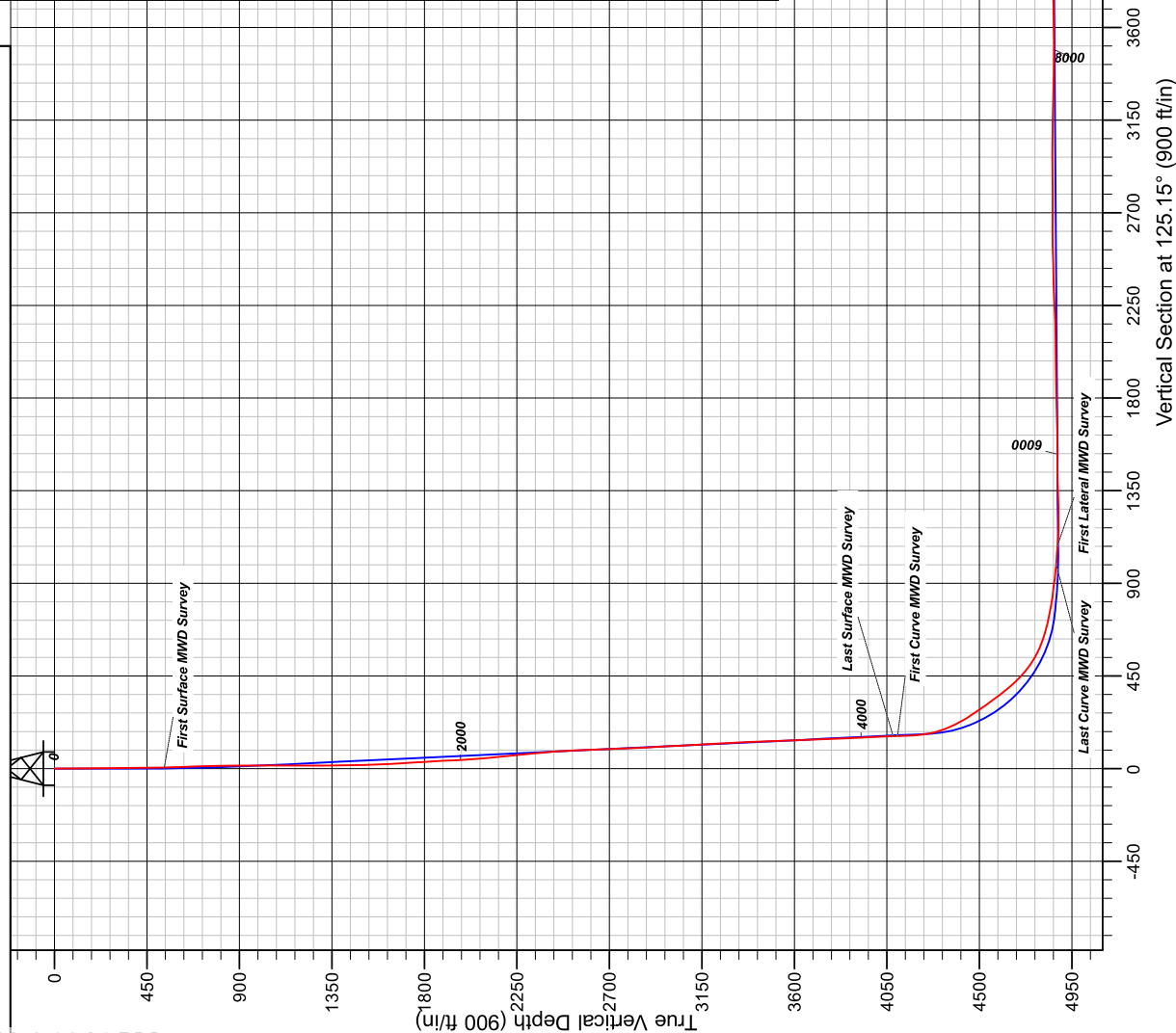


Company Name: DJR Operating
Project: Betonnie Tsosie Unit
Site: G34 2308 Pad
Well: # 506H
Wellbore: Original Drilling



WELL DETAILS: # 506H

GL 6834 & RKB 26' @ 6860ft (H&P 443) 6834			
+N/-S	+E/-W	Northing	Longitude
0	0	1887253.23	-107.66781200
4			



Design: Original Drilling (# 506H/Original Drilling)
Created By: Janie Collins Date: 14:33, August 24 2021
PROJECT DETAILS: Betonnie 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

506H - Slot 4

Original Drilling

Design: Original Drilling

Standard Survey Report

24 August, 2021



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Scientific Drilling Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 506H - Slot 4
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:	# 506H	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	# 506H - Slot 4		
Well Position	+N/-S	0 ft	Northing:
	+E/-W	0 ft	Easting:
Position Uncertainty	0 ft	Wellhead Elevation:	ft
		Latitude:	36.18657800
		Longitude:	-107.66781200
		Ground Level:	6834 ft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021_FILE	8/14/2021	8.57	62.68	49,156.90000000

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	125.15	

Survey Program	Date	8/24/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
535	4158	Survey #1 - Surface MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
4179	5455	Survey #2 - Curve MWD Survey (Original)	MWD+HDGM	OWSG MWD + HDGM	
5547	9537	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	
535	1.33	162.81	535	-6	2	5	0.25	0.25	0.00	
628	2.88	157.00	628	-9	3	8	1.68	1.67	-6.25	
662	3.10	155.06	662	-11	4	9	0.71	0.65	-5.71	
689	2.51	140.92	689	-12	4	10	3.35	-2.19	-52.37	
720	1.99	105.05	720	-13	5	12	4.75	-1.68	-115.71	
760	2.08	91.86	760	-13	7	13	1.19	0.23	-32.98	
782	2.19	75.82	782	-13	8	14	2.75	0.50	-72.91	
812	2.94	53.64	812	-12	9	14	4.10	2.50	-73.93	



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 506H - Slot 4
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:	# 506H	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)
852	3.42	38.15	852	-10	10	15	2.45	1.20	-38.73
872	4.13	40.20	872	-9	11	15	3.61	3.55	10.25
949	6.28	34.29	948	-4	15	15	2.87	2.79	-7.68
997	8.18	32.57	996	1	19	15	3.98	3.96	-3.58
1087	10.65	32.66	1085	14	27	14	2.74	2.74	0.10
1178	12.28	34.38	1174	29	37	13	1.83	1.79	1.89
1268	12.99	35.74	1262	45	48	13	0.86	0.79	1.51
1360	14.40	40.96	1351	62	61	15	2.04	1.53	5.67
1453	11.89	39.48	1442	78	75	17	2.72	-2.70	-1.59
1544	11.43	46.19	1531	91	88	19	1.57	-0.51	7.37
1635	12.31	46.26	1620	104	101	23	0.97	0.97	0.08
1724	13.84	49.64	1707	118	116	27	1.92	1.72	3.80
1817	12.48	49.59	1797	132	132	32	1.46	-1.46	-0.05
1911	13.42	47.31	1889	145	148	37	1.14	1.00	-2.43
2006	13.82	47.54	1981	161	164	42	0.42	0.42	0.24
2101	16.60	51.77	2073	177	183	48	3.15	2.93	4.45
2196	17.85	53.07	2163	194	206	57	1.38	1.32	1.37
2290	16.91	53.81	2253	211	228	65	1.03	-1.00	0.79
2385	16.80	54.41	2344	227	251	74	0.22	-0.12	0.63
2480	15.38	49.82	2435	243	271	82	2.01	-1.49	-4.83
2575	13.87	46.83	2527	259	289	88	1.78	-1.59	-3.15
2670	11.32	47.39	2620	273	305	92	2.69	-2.68	0.59
2765	10.03	45.95	2713	285	317	95	1.39	-1.36	-1.52
2860	9.26	50.47	2807	296	329	99	1.14	-0.81	4.76
2955	10.89	50.44	2900	306	342	103	1.72	1.72	-0.03
3050	12.42	49.41	2994	318	357	108	1.63	1.61	-1.08
3145	11.32	49.39	3086	331	372	113	1.16	-1.16	-0.02
3240	12.91	50.39	3179	344	387	118	1.69	1.67	1.05
3335	12.21	49.66	3272	357	403	123	0.76	-0.74	-0.77
3430	11.28	50.53	3365	370	417	128	1.00	-0.98	0.92
3525	10.81	45.62	3458	382	431	133	1.11	-0.49	-5.17
3620	9.90	43.76	3552	394	443	135	1.02	-0.96	-1.96
3715	10.12	45.67	3645	406	455	138	0.42	0.23	2.01
3810	12.58	48.36	3738	418	468	142	2.65	2.59	2.83
3905	11.28	45.98	3831	432	483	146	1.46	-1.37	-2.51
4000	10.99	52.19	3925	444	497	151	1.30	-0.31	6.54
4095	10.31	47.37	4018	455	510	155	1.18	-0.72	-5.07
4158	8.83	45.73	4080	462	518	157	2.39	-2.35	-2.60
4179	9.63	46.63	4101	465	520	158	3.87	3.81	4.29
4274	11.50	52.72	4194	476	533	162	2.29	1.97	6.41
4338	15.68	82.89	4257	481	547	170	12.65	6.53	47.14
4369	18.36	88.29	4286	481	556	178	10.03	8.65	17.42
4464	26.44	111.32	4374	474	591	210	12.41	8.51	24.24



Scientific Drilling

Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 506H - Slot 4
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:	# 506H	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)
4559	33.48	120.41	4456	453	633	257	8.80	7.41	9.57
4654	35.58	119.79	4535	426	680	310	2.24	2.21	-0.65
4749	37.20	121.98	4611	397	728	367	2.19	1.71	2.31
4844	45.62	130.08	4682	360	779	429	10.49	8.86	8.53
4939	53.17	130.43	4744	313	834	501	7.95	7.95	0.37
5034	66.41	132.08	4792	259	895	583	14.02	13.94	1.74
5129	75.99	130.43	4822	200	963	672	10.22	10.08	-1.74
5224	79.08	130.12	4843	140	1033	764	3.27	3.25	-0.33
5319	82.12	131.72	4858	79	1104	858	3.61	3.20	1.68
5455	85.57	133.55	4873	-13	1204	992	2.87	2.54	1.35
5547	85.57	136.84	4880	-78	1268	1082	3.57	0.00	3.58
5640	88.32	135.33	4885	-145	1333	1173	3.37	2.96	-1.62
5734	91.88	134.84	4885	-211	1399	1266	3.82	3.79	-0.52
5825	92.28	135.05	4882	-276	1463	1355	0.50	0.44	0.23
5918	89.77	136.15	4880	-342	1529	1447	2.95	-2.70	1.18
6011	89.53	135.38	4881	-409	1593	1538	0.87	-0.26	-0.83
6103	91.28	135.85	4880	-474	1658	1629	1.97	1.90	0.51
6195	91.71	135.92	4877	-540	1722	1719	0.47	0.47	0.08
6288	91.98	135.75	4874	-607	1787	1810	0.34	0.29	-0.18
6380	90.03	133.37	4873	-672	1852	1901	3.34	-2.12	-2.59
6472	91.37	132.82	4872	-734	1919	1992	1.57	1.46	-0.60
6564	89.90	131.86	4871	-796	1987	2083	1.91	-1.60	-1.04
6656	92.42	133.12	4869	-858	2055	2175	3.06	2.74	1.37
6747	92.98	133.62	4865	-921	2121	2265	0.82	0.62	0.55
6839	91.17	133.55	4861	-984	2188	2355	1.97	-1.97	-0.08
6931	91.27	133.37	4859	-1048	2254	2446	0.22	0.11	-0.20
7023	91.84	137.58	4857	-1113	2319	2537	4.62	0.62	4.58
7114	89.78	137.52	4855	-1180	2380	2626	2.26	-2.26	-0.07
7207	89.63	137.30	4856	-1249	2443	2717	0.29	-0.16	-0.24
7299	89.77	136.37	4856	-1316	2506	2807	1.02	0.15	-1.01
7391	91.07	137.94	4856	-1383	2569	2897	2.22	1.41	1.71
7483	90.27	138.68	4855	-1452	2630	2986	1.18	-0.87	0.80
7574	88.86	137.95	4855	-1520	2690	3075	1.74	-1.55	-0.80
7666	88.81	137.96	4857	-1588	2752	3165	0.06	-0.05	0.01
7760	88.86	136.86	4859	-1657	2816	3256	1.17	0.05	-1.17
7852	88.29	135.49	4861	-1724	2879	3347	1.61	-0.62	-1.49
7944	89.97	133.15	4863	-1788	2945	3438	3.13	1.83	-2.54
8036	90.10	133.17	4863	-1851	3012	3529	0.14	0.14	0.02
8128	91.01	134.63	4862	-1915	3079	3620	1.87	0.99	1.59
8221	91.61	135.72	4860	-1981	3144	3711	1.34	0.65	1.17
8313	91.31	135.11	4857	-2046	3209	3802	0.74	-0.33	-0.66
8405	91.61	135.79	4855	-2112	3273	3892	0.81	0.33	0.74
8497	88.56	133.99	4855	-2177	3338	3983	3.85	-3.32	-1.96



Scientific Drilling Survey Report



Company:	DJR Operating	Local Co-ordinate Reference:	Well # 506H - Slot 4
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:	# 506H	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)	
8589	88.56	134.19	4857	-2241	3404	4074	0.22	0.00	0.22	
8681	88.02	133.87	4860	-2305	3471	4164	0.68	-0.59	-0.35	
8773	88.05	131.73	4863	-2367	3538	4256	2.32	0.03	-2.33	
8865	89.90	130.97	4865	-2428	3607	4347	2.17	2.01	-0.83	
8958	90.60	131.57	4864	-2489	3677	4439	0.99	0.75	0.65	
9049	93.66	131.13	4861	-2549	3745	4530	3.40	3.36	-0.48	
9141	93.46	131.25	4855	-2610	3814	4621	0.25	-0.22	0.13	
9234	93.76	131.06	4849	-2671	3884	4713	0.38	0.32	-0.20	
9325	93.03	131.36	4844	-2731	3953	4804	0.87	-0.80	0.33	
9417	93.39	130.91	4839	-2791	4022	4895	0.63	0.39	-0.49	
9486	93.59	131.02	4835	-2836	4074	4964	0.33	0.29	0.16	
9537	93.59	131.02	4832	-2870	4112	5014	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
506H Toe	0.00	0.00	4855	-2864	4068	1,884,395.81	2,776,007.71	36.17870850	-107.65402910	
- actual wellpath misses target center by 35ft at 9486ft MD (4835 TVD, -2836 N, 4074 E)										
- Circle (radius 100)										
506H 85° Casing	0.00	0.00	4868	152	1039	1,887,407.21	2,772,973.89	36.18699608	-107.66429127	
- actual wellpath misses target center by 28ft at 5224ft MD (4843 TVD, 140 N, 1034 E)										
- Point										
506H Heel	0.00	0.00	4883	-20	1226	1,887,235.11	2,773,161.36	36.18652240	-107.66365700	
- actual wellpath misses target center by 13ft at 5477ft MD (4875 TVD, -28 N, 1219 E)										
- Circle (radius 50)										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
535	535	-6	2	First Surface MWD Survey	
4158	4080	462	518	Last Surface MWD Survey	
4179	4101	465	520	First Curve MWD Survey	
5455	4873	-13	1204	Last Curve MWD Survey	
5547	4880	-78	1268	First Lateral MWD Survey	
9486	4835	-2836	4074	Last Lateral MWD Survey	
9537	4832	-2870	4112	Projection to TD	

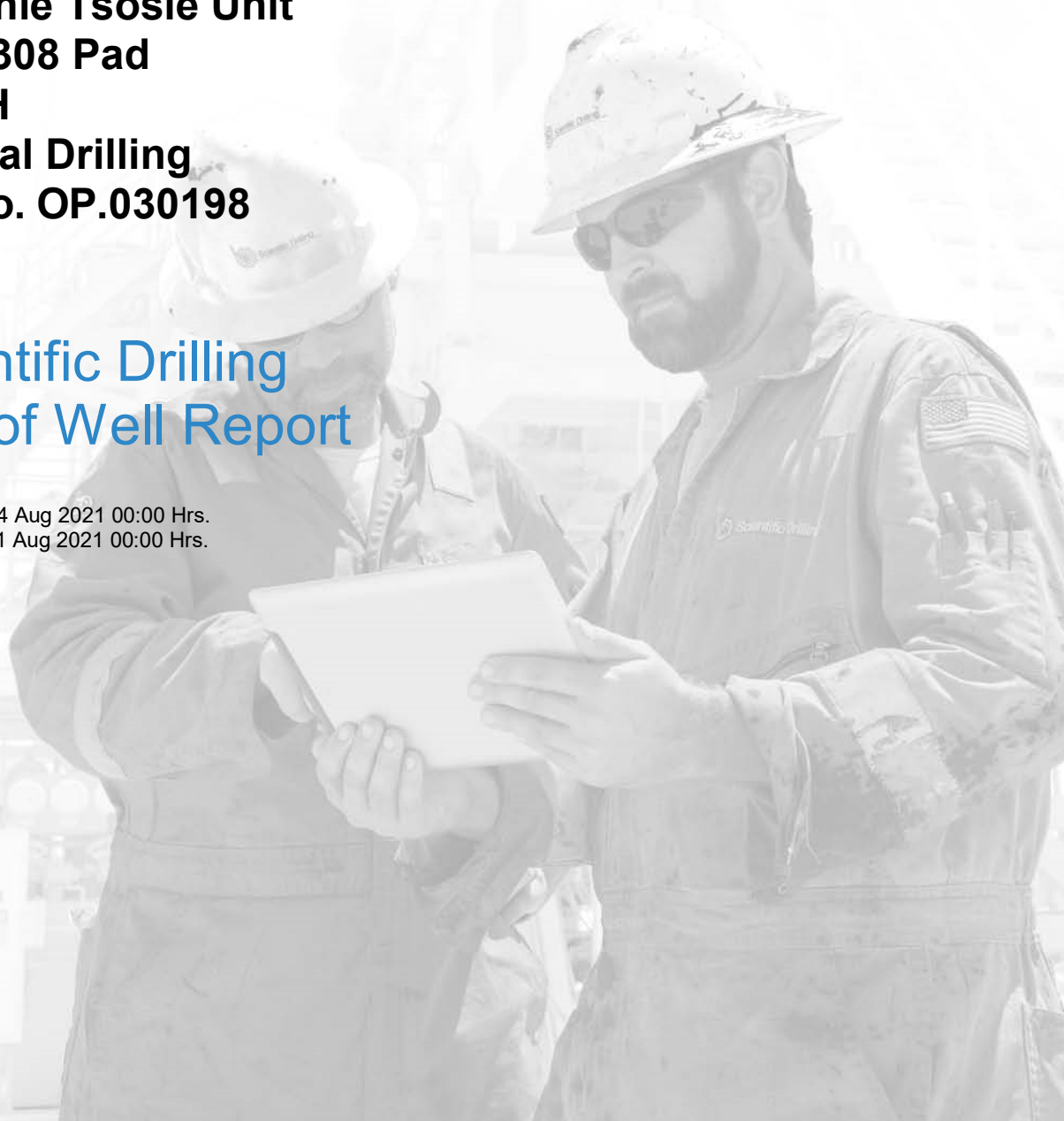
Checked By: _____	Approved By: _____	Date: _____
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DJR Operating
DJR
Betonnie Tsosie Unit
G34 2308 Pad
506H
Original Drilling
Job No. OP.030198

Scientific Drilling End of Well Report

Start Time: 14 Aug 2021 00:00 Hrs.
End Time: 21 Aug 2021 00:00 Hrs.





DJR Operating

DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

Job Number: OP.030198	Region:	Lease/Block:	Company Rep. #1: James Retherford
Customer: DJR Operating	Field: DJR	UWI No.: 30045382340000	Company Rep. #2:
Well Name: # 506H	Project: Betonnie Tsosie Unit	Start Date: Saturday, August 14, 2021	Geologist:
Rig Name: H&P 443	Structure: G34 2308 Pad	End Date: Saturday, August 21, 2021	Directional Supervisor:

Drilling Summary				Pump Details							
Start Depth: 382.00ft	End Depth: 9,537.00ft	Below Rotary Hours: 109.38hrs	Circulating Hours: 54.85hrs	#	Model	Liner Size (")	Liner Rating (%)	Volume Efficiency (%)	Vol. per Stroke (gal(US))	Maximum Pressure (psi)	Maximum Flow (gpm(US))
Total Depth Drilled: 9,155.00ft	Total Drilled Hours: 41.03hrs	Ave. Total ROP: 223.11ft/hr	Percent Drilling: 37.51%	1	Gardner-Denver PZ-11-1600	5 1/2	85.00	95.00	3.22	4,756	515
Total Rotating: 7,232.00ft	Rotating Hours: 25.60hrs	Ave. Rotating ROP: 282.50ft/hr	Percent Rotating: 79.00%	2	Gardner-Denver PZ-11-1600	5 1/2	85.00	95.00	3.22	4,756	515
Total Sliding: 1,923.00ft	Sliding Hours: 15.43hrs	Ave. Sliding ROP: 124.60ft/hr	Percent Sliding: 21.00%	3							

Drilling Parameters - BHA #1 Vertical						Bit Record - BHA #1 Vertical			
	Min	Max		Min	Max	Bit Number (Bit Run): 2 (Run 1)	Description: NOV TK56 7x14's		
WOB (lbf)	10	35	SPP Off Bottom (psi)	1,400	2,900	Manufacturer:	TFA:	Jets:	
Pick Up (lbf)	67	170	SPP On Bottom (psi)	1,750	4,100	NOV	1.052in ²	7 x 14'S	
Slack Off (lbf)	63	135	Delta Pressure (psi)	350	1,200	Model:	Bit Diameter:	Bit Hours:	
Rot. Off Bottom (lbf)	64	150	Flow Rate (gpm(US))	571	600	TK56	8 3/4"	12.88Hrs	
Bottom Hole Temp (°F)	101.0	101.0	Pump Rate (SPM)	187	200	Type:	IADC#:	Bit Footage:	
Rotary Speed (RPM)	30	50	Motor Speed (RPM)	350		8 3/4" PDC		3,839.00ft	
Surface Torque (ft-lbs)	1,500	10,000				Serial Number:	Condition: No Dull Characteristics		
						A251863	Reason for pulling out of hole:		
						Grade:	Pick Up Curve Assembly		
						0-1-NO-A-X-I-BHA			

Drilling Summary - BHA #1 Vertical							
Start Depth: 382.00ft	Total Rotating: 2,895.00ft	End Depth: 4,221.00ft	Rotating Hours: 6.45hrs	Below Rotary Hours: 29.88hrs	Ave. Rotating ROP: 448.84ft/hr	Circulating Hours: 17.42hrs	Percent Rotating: 75.41%
Total Depth Drilled: 3,839.00ft	Total Sliding: 944.00ft	Total Drilled Hours: 12.88hrs	Sliding Hours: 6.43hrs	Ave. Total ROP: 297.98ft/hr	Ave. Sliding ROP: 146.74ft/hr	Percent Drilling: 43.11%	Percent Sliding: 24.59%

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 7x14's	NOV	A251863	8 3/4	0	0.00	0	4 1/2 REGP	0.80	0.80
2	SDI 7-8 6.4 1.75FBH	SDI	65339	6 1/2	0	0.00	0	4 1/2 IF	32.98	33.78
3	6 1/2" NMFP	SDI	DR20053	6 13/16	3 1/4	0.00	0	4 1/2 IF	9.72	43.50
4	6 1/2" Flex NMDC	SDI	DR29580	6 7/16	3 1/4	0.00	0	4 1/2 IF	29.89	73.39
5	6 1/2" HOS	SDI	8-1187	6 1/4	3 1/4	0.00	0	4 1/2 IF	3.96	77.35
6	6 1/2" Gap Sub	SDI	69-107	6 3/4	2 3/4	0.00	0	4 1/2 IF	4.02	81.37
7	6 1/2" NMPC	SDI	125-091	6 1/4	3 1/4	0.00	0	4 1/2 IF	9.24	90.61
8	6 1/2" NMDC	SDI	122-1103	6 3/8	3 1/4	0.00	0	4 1/2 IF	28.21	118.82
9	X-Over	SDI	232-001	6 3/4	3	0.00	0	4 1/2 XH	4.00	122.82
10	2 Joints HWDP	Rig DP	555	4 1/2	2.360	0.00	0	4 1/2 XH	61.58	184.40
11	X-Over	DJR	666	6 3/4	3	0.00	0	4 1/2 IF	1.83	186.23
12	Ream-N-Drill	SD	DTR DNI 457	6 3/4	3 1/2	0.00	0	4 1/2 IF	8.44	194.67
13	X-Over	DJR	232-001	6 3/4	3	0.00	0	4 1/2 XH	1.23	195.90

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, # 506H

Drilling Parameters - BHA #2 Curve						Bit Record - BHA #2 Curve		
	Min	Max		Min	Max	Bit Number (Bit Run):	Description:	
WOB (lbf)	6	40	SPP Off Bottom (psi)	2,750	2,750	2 (Run 2)	NOV TKC56 5x16's	
Pick Up (lbf)	160	183	SPP On Bottom (psi)	3,150	3,850	Manufacturer:	TFA:	Jets:
Slack Off (lbf)	135	145	Delta Pressure: (psi)	400	1,100	NOV	0.982in ²	5 x 16
Rot. Off Bottom (lbf)	150	158	Flow Rate (gpm(US))	603	604	Model:	Bit Diameter:	Bit Hours:
Bottom Hole Temp (°F)	116.0	116.0	Pump Rate (SPM)	187	187	TKC56	8 3/4"	5.70Hrs (18.58Hrs)
Rotary Speed (RPM)	25	25	Motor Speed (RPM)		327	Type:	IADC#:	Bit Footage:
Surface Torque (ft-lbs)	4,500	9,500				8 3/4" PDC		1,165.00ft (5,004.00ft)
						Serial Number:	Condition:	
						A243738		
						Grade:	Reason for pulling out of hole:	
						1-2-S-CT-X-I-WT-BHA	TD Curve	

Drilling Summary - BHA #2 Curve							
Start Depth:	4,221.00ft	Total Rotating:	485.00ft	End Depth:	5,386.00ft	Rotating Hours:	2.52hrs
						Below Rotary Hours:	17.83hrs
Total Depth Drilled:	1,165.00ft	Total Sliding:	680.00ft	Total Drilled Hours:	5.70hrs	Ave. Rotating ROP:	192.72ft/hr
						Ave. Sliding ROP:	213.61ft/hr
						Percent Rotating:	41.63%
						Percent Drilling:	31.96%
						Percent Sliding:	58.37%

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 5x16's	NOV	A243738	8 3/4	0	0.00	0	4 1/2 REGP	0.80	0.80
2	SDI 4:5 7.0 2.25FBH	SDI	6106	6 3/4	0	0.00	0	4 1/2 IF	27.21	28.01
3	6 1/2" NMFP	SDI	DR20053	6 13/16	3 1/4	0.00	0	4 1/2 IF	9.72	37.73
4	6 1/2" Flex NMDC	SDI	DR29580	6 7/16	3 1/4	0.00	0	4 1/2 IF	29.89	67.62
5	6 1/2" HOS	SDI	8-1187	6 1/4	3 1/4	0.00	0	4 1/2 IF	3.96	71.58
6	6 1/2" Gap Sub	SDI	69-107	6 3/4	2 3/4	0.00	0	4 1/2 IF	4.02	75.60
7	6 1/2" NMPC	SDI	125-091	6 1/4	3 1/4	0.00	0	4 1/2 IF	9.24	84.84
8	6 1/2" NMDC	SDI	122-1103	6 3/8	3 1/4	0.00	0	4 1/2 IF	28.21	113.05
9	X-Over	SDI	232-001	6 3/4	3	0.00	0	4 1/2 XH	4.00	117.05
10	13 Stands DP	Rig DP	555	4 1/2	2 3/4	0.00	0	4 1/2 XH	1,234.18	1,351.23

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)	12	50	SPP Off Bottom (psi)	2,400	2,850	3 (Run 1)	6 1/8" NOV PDC	
Pick Up (lbf)	120	160	SPP On Bottom (psi)	2,800	4,050	Manufacturer:	TFA:	Jets:
Slack Off (lbf)	100	135	Delta Pressure: (psi)	300	1,200	NOV	0.982in ²	5 x 16'S
Rot. Off Bottom (lbf)	110	135	Flow Rate (gpm(US))	300	950	Model:	Bit Diameter:	Bit Hours:
Bottom Hole Temp (°F)	126.0	138.0	Pump Rate (SPM)	94	94	TK56	6 1/8"	20.90Hrs
Rotary Speed (RPM)	50	65	Motor Speed (RPM)	243	820	Type:	IADC#:	Bit Footage:
Surface Torque (ft-lbs)	6,100	10,600				6 1/8 PDC	N/A	3,829.00ft
						Serial Number:	Condition:	
						A279052		
						Grade:	Reason for pulling out of hole:	
						2-1-BT-N-X-I-DMF	Broken Drive Shaft On Motor	

Drilling Summary - BHA #3 Lateral							
Start Depth:	5,386.00ft	Total Rotating:	3,538.00ft	End Depth:	9,215.00ft	Rotating Hours:	15.32hrs
						Below Rotary Hours:	46.33hrs
Total Depth Drilled:	3,829.00ft	Total Sliding:	291.00ft	Total Drilled Hours:	20.90hrs	Ave. Rotating ROP:	230.99ft/hr
						Ave. Sliding ROP:	52.12ft/hr
						Percent Rotating:	92.40%
						Percent Drilling:	45.11%
						Percent Sliding:	7.60%

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	A279052	6 1/8	0	0.00	0	3 1/2 REG	0.70	0.70
2	ADT 6/7 8.0 1.83FBH	Alliance	ADT 47538	4 15/16	0	0.00	0	3 1/2 IF	28.80	29.50



DJR Operating

DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

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)
3	5 1/2" NM STAB	DR	DR35656	5 1/2	2 1/4	0.00	0	3 1/2 IF	4.95	34.45
4	4 3/4" NMPC	SDI	17-275	4 11/16	2 3/4	0.00	0	3 1/2 IF	9.78	44.23
5	4 3/4" NMDC	SDI	121-422	4 7/8	2 11/16	0.00	0	3 1/2 IF	29.11	73.34
6	4 3/4" HANG OFF SUB	SDI	8-1071	4 3/4	2 3/4	0.00	0	3 1/2 IF	1.88	75.22
7	GAP SUB	SDI	69-408	4 11/16	2 3/4	0.00	0	3 1/2 IF	4.60	79.82
8	4 3/4" NMDC	SDI	121-600	4 3/4	2 11/16	0.00	0	3 1/2 IF	29.56	109.38
9	4 3/4" NMDC	SDI	121-376	4 11/16	2 11/16	0.00	0	3 1/2 IF	30.95	140.33
10	3 1/2IF (P) x XT39 (B)	SDI	DR21908	4 3/4	2 11/16	0.00	0	XT39	2.83	143.16
11	4" DP (78 Joints)	RIG	RIG	4	2 1/4	0.00	0	XT39	2,447.46	2,590.62
12	XRV AGGITATOR	TTS	ZA0163	4 7/8	2 5/8	0.00	0	XT39	9.03	2,599.65
13	4" DP (75 JOINTS)	RIG	RIG	4	2 1/4	0.00	0	XT39	2,353.56	4,953.21
14	4" HWDP (156) JOINTS	RIG	RIG	4	2 1/4	0.00	0	XT39	4,758.00	9,711.21

Drillstring Discussion

Flow Range - 150-350 GPM
 Max Differential - 1800 PSI
 Stall Differential - 2700 PSI
 REV / GAL - .81

Drilling Parameters - BHA #4 Lateral

	Min	Max		Min	Max
WOB (lbf)	10	45	SPP Off Bottom (psi)	2,950	3,050
Pick Up (lbf)	165	165	SPP On Bottom (psi)	3,400	4,100
Slack Off (lbf)	130	130	Delta Pressure: (psi)	350	1,050
Rot. Off Bottom (lbf)	140	145	Flow Rate (gpm(US))	304	304
Bottom Hole Temp (°F)	135.0	138.0	Pump Rate (SPM)	94	94
Rotary Speed (RPM)	60	65	Motor Speed (RPM)	246	311
Surface Torque (ft-lbs)	9,500	11,200			

Bit Record - BHA #4 Lateral

Bit Number (Bit Run):	Description:	
4 (Run 1)	6 1/8" NOV PDC	
Manufacturer:	TFA:	Jets:
NOV	0.982in ²	5 x 16
Model:	Bit Diameter:	Bit Hours:
TK56	6 1/8"	1.55Hrs
Type:	IADC#:	Bit Footage:
6 1/8 PDC		322.00ft
Serial Number:	Condition:	
A255246		
Grade:	Reason for pulling out of hole:	
0,0	Td Well	

Drilling Summary - BHA #4 Lateral

Start Depth:	Total Rotating:	End Depth:	Rotating Hours:	Below Rotary Hours:	Ave. Rotating ROP:	Circulating Hours:	Percent Rotating:
9,215.00ft	314.00ft	9,537.00ft	1.32hrs	15.33hrs	238.48ft/hr	5.48hrs	97.52%
Total Depth Drilled:	Total Sliding:	Total Drilled Hours:	Sliding Hours:	Ave. Total ROP:	Ave. Sliding ROP:	Percent Drilling:	Percent Sliding:
322.00ft	8.00ft	1.55hrs	0.23hrs	207.74ft/hr	34.29ft/hr	10.11%	2.48%

Drillstring Components - BHA #4 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	A255246	6 1/8	0	0.00	0	3 1/2 REG	0.70	0.70
2	ADT 6/7 8.0 1.83FBH	Alliance	ADT 47559	5	0	0.00	0	3 1/2 IF	28.33	29.03
3	5 1/2" NM STAB	DR	DR35656	5 1/2	2 1/4	0.00	0	3 1/2 IF	4.95	33.98
4	4 3/4" NMPC	SDI	17-275	4 11/16	2 3/4	0.00	0	3 1/2 IF	9.78	43.76
5	4 3/4" NMDC	SDI	121-422	4 7/8	2 11/16	0.00	0	3 1/2 IF	29.11	72.87
6	4 3/4" HANG OFF SUB	SDI	8-1071	4 3/4	2 3/4	0.00	0	3 1/2 IF	1.88	74.75
7	GAP SUB	SDI	69-408	4 11/16	2 3/4	0.00	0	3 1/2 IF	4.60	79.35
8	4 3/4" NMDC	SDI	121-600	4 3/4	2 11/16	0.00	0	3 1/2 IF	29.56	108.91
9	4 3/4" NMDC	SDI	121-376	4 11/16	2 11/16	0.00	0	3 1/2 IF	30.95	139.86
10	3 1/2IF (P) x XT39 (B)	SDI	DR21908	4 3/4	2 11/16	0.00	0	XT39	2.83	142.69
11	4" DP (47 Joints)	RIG	RIG	4	2 1/4	0.00	0	XT39	1,476.78	1,619.47
12	XRV AGGITATOR	TTS	ZA0163	4 7/8	2 5/8	0.00	0	XT39	9.03	1,628.50
13	4" DP (106 JOINTS)	RIG	RIG	4	2 1/4	0.00	0	XT39	3,324.79	4,953.29
14	4" HWDP (150) JOINTS	RIG	RIG	4	2 1/4	0.00	0	XT39	4,607.85	9,561.14



DJR Operating

DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

Drillstring Components - BHA #4 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)
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												
14 Aug 2021	00:00	13:35	13.58	382.00	382.00			Standby	Skid Rig - Nipple Up BOP And Test BOP			
14 Aug 2021	13:35	14:30	0.92	382.00	382.00			Change BHA	P/U BHA			
14 Aug 2021	14:30	15:03	0.55	382.00	382.00			Tripping In	Scribe In			
14 Aug 2021	15:03	15:14	0.18	382.00	382.00			Drill Cement and/or Float Equipment				
14 Aug 2021	15:14	15:25	0.18	382.00	403.00	21.00	114.55	Rotating				
14 Aug 2021	15:25	15:28	0.05	403.00	413.00	10.00	200.00	Sliding	Slide W/ Scribe			
14 Aug 2021	15:28	15:33	0.08	413.00	413.00			Connection (drilling)				
14 Aug 2021	15:33	15:35	0.03	413.00	418.00	5.00	150.00	Sliding	Slide W/ Scribe			
14 Aug 2021	15:35	15:48	0.22	418.00	506.00	88.00	406.15	Rotating				
14 Aug 2021	15:48	15:57	0.15	506.00	506.00			Connection (drilling)				
14 Aug 2021	15:57	16:00	0.05	506.00	521.00	15.00	300.00	Sliding				
14 Aug 2021	16:00	16:07	0.12	521.00	598.00	77.00	660.00	Rotating				
14 Aug 2021	16:07	16:15	0.13	598.00	598.00			Survey & Connection				
14 Aug 2021	16:15	16:19	0.07	598.00	623.00	25.00	375.00	Sliding				
14 Aug 2021	16:19	16:28	0.15	623.00	691.00	68.00	453.33	Rotating				
14 Aug 2021	16:28	16:29	0.02	691.00	691.00			Survey & Connection				
14 Aug 2021	16:29	17:17	0.80	691.00	691.00			Tripping Out				
14 Aug 2021	17:17	17:24	0.12	691.00	691.00			Other	Check High Side Scribe - Orient EM - Mule Shoe 120° Out			
14 Aug 2021	17:24	18:58	1.57	691.00	691.00			Tripping In				
14 Aug 2021	18:58	19:21	0.38	691.00	726.00	35.00	91.30	Sliding				
14 Aug 2021	19:21	19:31	0.17	726.00	726.00			Circulate and/or Condition Mud	Wait on Anti Collision			
14 Aug 2021	19:31	19:36	0.08	726.00	752.00	26.00	312.00	Rotating				
14 Aug 2021	19:36	20:40	1.07	752.00	752.00			Circulate and/or Condition Mud	Wait on Anti Collision / Work on Pumps			
14 Aug 2021	20:40	20:47	0.12	752.00	783.00	31.00	265.71	Rotating				
14 Aug 2021	20:47	20:52	0.08	783.00	783.00			Survey & Connection				
14 Aug 2021	20:52	21:07	0.25	783.00	783.00			Circulate and/or Condition Mud				
14 Aug 2021	21:07	21:34	0.45	783.00	823.00	40.00	88.89	Sliding	Wait on Anti Collision			
14 Aug 2021	21:34	21:42	0.13	823.00	823.00			Circulate and/or Condition Mud	Wait on Anti Collision			
14 Aug 2021	21:42	21:45	0.05	823.00	845.00	22.00	440.00	Rotating				
14 Aug 2021	21:45	21:51	0.10	845.00	845.00			Deviation Survey	Wait on Anti Collision			
14 Aug 2021	21:51	21:55	0.07	845.00	875.00	30.00	450.00	Rotating				
14 Aug 2021	21:55	21:57	0.03	875.00	875.00			Connection (drilling)				
14 Aug 2021	21:57	22:08	0.18	875.00	875.00			Circulate and/or Condition Mud				
14 Aug 2021	22:08	22:20	0.20	875.00	915.00	40.00	200.00	Sliding				
14 Aug 2021	22:20	22:32	0.20	915.00	915.00			Circulate and/or Condition Mud	Wait on Anti Collision			
14 Aug 2021	22:32	22:34	0.03	915.00	935.00	20.00	600.00	Rotating				
14 Aug 2021	22:34	22:37	0.05	935.00	935.00			Deviation Survey				
14 Aug 2021	22:37	22:40	0.05	935.00	967.00	32.00	640.00	Rotating				
14 Aug 2021	22:40	22:42	0.03	967.00	967.00			Connection (drilling)				
14 Aug 2021	22:42	22:58	0.27	967.00	1,012.00	45.00	168.75	Sliding				
14 Aug 2021	22:58	23:02	0.07	1,012.00	1,012.00			Deviation Survey				
14 Aug 2021	23:02	23:10	0.13	1,012.00	1,060.00	48.00	360.00	Rotating				
14 Aug 2021	23:10	23:14	0.07	1,060.00	1,060.00			Survey & Connection				
14 Aug 2021	23:14	23:36	0.37	1,060.00	1,100.00	40.00	109.09	Sliding				
14 Aug 2021	23:36	23:41	0.08	1,100.00	1,150.00	50.00	600.00	Rotating				
14 Aug 2021	23:41	23:45	0.07	1,150.00	1,150.00			Survey & Connection				
14 Aug 2021	23:45	00:00	0.25	1,150.00	1,176.00	26.00	104.00	Sliding				
15 Aug 2021	00:00	00:07	0.12	1,176.00	1,241.00	65.00	557.14	Rotating				
15 Aug 2021	00:07	00:12	0.08	1,241.00	1,241.00			Survey & Connection				



DJR Operating
DJR, Betonnie Tsosie Unit

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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
15 Aug 2021	00:12	00:21	0.15	1,241.00	1,271.00	30.00	200.00	Sliding	
15 Aug 2021	00:21	00:29	0.13	1,271.00	1,331.00	60.00	450.00	Rotating	
15 Aug 2021	00:29	00:33	0.07	1,331.00	1,331.00			Survey & Connection	
15 Aug 2021	00:33	00:43	0.17	1,331.00	1,356.00	25.00	150.00	Sliding	
15 Aug 2021	00:43	00:52	0.15	1,356.00	1,423.00	67.00	446.67	Rotating	
15 Aug 2021	00:52	00:56	0.07	1,423.00	1,423.00			Survey & Connection	
15 Aug 2021	00:56	01:09	0.22	1,423.00	1,516.00	93.00	429.23	Rotating	
15 Aug 2021	01:09	01:13	0.07	1,516.00	1,516.00			Survey & Connection	
15 Aug 2021	01:13	01:26	0.22	1,516.00	1,556.00	40.00	184.62	Sliding	
15 Aug 2021	01:26	01:33	0.12	1,556.00	1,607.00	51.00	437.14	Rotating	
15 Aug 2021	01:33	01:37	0.07	1,607.00	1,607.00			Survey & Connection	
15 Aug 2021	01:37	01:53	0.27	1,607.00	1,642.00	35.00	131.25	Sliding	
15 Aug 2021	01:53	02:00	0.12	1,642.00	1,698.00	56.00	480.00	Rotating	
15 Aug 2021	02:00	02:04	0.07	1,698.00	1,698.00			Survey & Connection	
15 Aug 2021	02:04	02:17	0.22	1,698.00	1,730.00	32.00	147.69	Sliding	
15 Aug 2021	02:17	02:23	0.10	1,730.00	1,787.00	57.00	570.00	Rotating	
15 Aug 2021	02:23	02:27	0.07	1,787.00	1,787.00			Survey & Connection	
15 Aug 2021	02:27	02:47	0.33	1,787.00	1,880.00	93.00	279.00	Rotating	
15 Aug 2021	02:47	02:51	0.07	1,880.00	1,880.00			Survey & Connection	
15 Aug 2021	02:51	03:03	0.20	1,880.00	1,920.00	40.00	200.00	Sliding	
15 Aug 2021	03:03	03:15	0.20	1,920.00	1,974.00	54.00	270.00	Rotating	
15 Aug 2021	03:15	03:19	0.07	1,974.00	1,974.00			Survey & Connection	
15 Aug 2021	03:19	03:23	0.07	1,974.00	1,995.00	21.00	315.00	Rotating	
15 Aug 2021	03:23	03:30	0.12	1,995.00	2,025.00	30.00	257.14	Sliding	
15 Aug 2021	03:30	03:38	0.13	2,025.00	2,069.00	44.00	330.00	Rotating	
15 Aug 2021	03:38	03:42	0.07	2,069.00	2,069.00			Survey & Connection	
15 Aug 2021	03:42	03:50	0.13	2,069.00	2,089.00	20.00	150.00	Rotating	Check Shot Inc 14.91 Azm 48.79
15 Aug 2021	03:50	03:55	0.08	2,089.00	2,100.00	11.00	132.00	Sliding	
15 Aug 2021	03:55	04:05	0.17	2,100.00	2,164.00	64.00	384.00	Rotating	
15 Aug 2021	04:05	04:09	0.07	2,164.00	2,164.00			Survey & Connection	
15 Aug 2021	04:09	04:17	0.13	2,164.00	2,259.00	95.00	712.50	Rotating	
15 Aug 2021	04:17	04:21	0.07	2,259.00	2,259.00			Survey & Connection	
15 Aug 2021	04:21	04:32	0.18	2,259.00	2,274.00	15.00	81.82	Sliding	
15 Aug 2021	04:32	04:37	0.08	2,274.00	2,309.00	35.00	420.00	Rotating	
15 Aug 2021	04:37	04:43	0.10	2,309.00	2,317.00	8.00	80.00	Sliding	
15 Aug 2021	04:43	04:53	0.17	2,317.00	2,353.00	36.00	216.00	Rotating	
15 Aug 2021	04:53	04:57	0.07	2,353.00	2,353.00			Survey & Connection	
15 Aug 2021	04:57	05:05	0.13	2,353.00	2,448.00	95.00	712.50	Rotating	Bottom Line Check - GOOD
15 Aug 2021	05:05	05:12	0.12	2,448.00	2,448.00			Circulate and/or Condition Mud	SPR's
15 Aug 2021	05:12	05:20	0.13	2,448.00	2,448.00			Survey & Connection	
15 Aug 2021	05:20	05:28	0.13	2,448.00	2,473.00	25.00	187.50	Sliding	
15 Aug 2021	05:28	05:40	0.20	2,473.00	2,543.00	70.00	350.00	Rotating	
15 Aug 2021	05:40	05:45	0.08	2,543.00	2,543.00			Survey & Connection	
15 Aug 2021	05:45	05:51	0.10	2,543.00	2,563.00	20.00	200.00	Sliding	
15 Aug 2021	05:51	05:57	0.10	2,563.00	2,638.00	75.00	750.00	Rotating	
15 Aug 2021	05:57	06:04	0.12	2,638.00	2,638.00			Survey & Connection	
15 Aug 2021	06:04	06:16	0.20	2,638.00	2,660.00	22.00	110.00	Sliding	
15 Aug 2021	06:16	06:23	0.12	2,660.00	2,733.00	73.00	625.72	Rotating	
15 Aug 2021	06:23	06:36	0.22	2,733.00	2,733.00			Survey & Connection	
15 Aug 2021	06:36	06:45	0.15	2,733.00	2,828.00	95.00	633.33	Rotating	
15 Aug 2021	06:45	06:53	0.13	2,828.00	2,828.00			Survey & Connection	
15 Aug 2021	06:53	07:00	0.12	2,828.00	2,843.00	15.00	128.57	Sliding	
15 Aug 2021	07:00	07:07	0.12	2,843.00	2,923.00	80.00	685.72	Rotating	
15 Aug 2021	07:07	07:16	0.15	2,923.00	2,923.00			Survey & Connection	
15 Aug 2021	07:16	07:24	0.13	2,923.00	2,948.00	25.00	187.50	Sliding	
15 Aug 2021	07:24	07:34	0.17	2,948.00	3,018.00	70.00	420.00	Rotating	
15 Aug 2021	07:34	07:42	0.13	3,018.00	3,018.00			Survey & Connection	
15 Aug 2021	07:42	07:50	0.13	3,018.00	3,043.00	25.00	187.50	Sliding	
15 Aug 2021	07:50	07:57	0.12	3,043.00	3,113.00	70.00	600.00	Rotating	
15 Aug 2021	07:57	08:07	0.17	3,113.00	3,113.00			Survey & Connection	
15 Aug 2021	08:07	08:19	0.20	3,113.00	3,208.00	95.00	475.00	Rotating	



DJR Operating
DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

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
15 Aug 2021	08:19	08:27	0.13	3,208.00	3,208.00			Survey & Connection	
15 Aug 2021	08:27	08:34	0.12	3,208.00	3,228.00	20.00	171.43	Sliding	
15 Aug 2021	08:34	08:41	0.12	3,228.00	3,303.00	75.00	642.86	Rotating	
15 Aug 2021	08:41	08:49	0.13	3,303.00	3,303.00			Survey & Connection	
15 Aug 2021	08:49	08:59	0.17	3,303.00	3,398.00	95.00	570.00	Rotating	
15 Aug 2021	08:59	09:05	0.10	3,398.00	3,398.00			Survey & Connection	
15 Aug 2021	09:05	09:17	0.20	3,398.00	3,493.00	95.00	475.00	Rotating	
15 Aug 2021	09:17	09:24	0.12	3,493.00	3,493.00			Survey & Connection	
15 Aug 2021	09:24	09:31	0.12	3,493.00	3,508.00	15.00	128.57	Sliding	
15 Aug 2021	09:31	09:41	0.17	3,508.00	3,588.00	80.00	480.00	Rotating	
15 Aug 2021	09:41	09:48	0.12	3,588.00	3,588.00			Survey & Connection	
15 Aug 2021	09:48	09:57	0.15	3,588.00	3,608.00	20.00	133.33	Sliding	
15 Aug 2021	09:57	10:06	0.15	3,608.00	3,683.00	75.00	500.00	Rotating	
15 Aug 2021	10:06	10:14	0.13	3,683.00	3,683.00			Survey & Connection	
15 Aug 2021	10:14	10:28	0.23	3,683.00	3,713.00	30.00	128.57	Sliding	
15 Aug 2021	10:28	10:36	0.13	3,713.00	3,778.00	65.00	487.50	Rotating	
15 Aug 2021	10:36	10:44	0.13	3,778.00	3,778.00			Survey & Connection	
15 Aug 2021	10:44	10:57	0.22	3,778.00	3,813.00	35.00	161.54	Sliding	
15 Aug 2021	10:57	11:05	0.13	3,813.00	3,873.00	60.00	450.00	Rotating	
15 Aug 2021	11:05	11:13	0.13	3,873.00	3,873.00			Survey & Connection	
15 Aug 2021	11:13	11:20	0.12	3,873.00	3,888.00	15.00	128.57	Sliding	
15 Aug 2021	11:20	11:28	0.13	3,888.00	3,968.00	80.00	600.00	Rotating	
15 Aug 2021	11:28	11:34	0.10	3,968.00	3,968.00			Survey & Connection	
15 Aug 2021	11:34	11:47	0.22	3,968.00	4,008.00	40.00	184.62	Sliding	
15 Aug 2021	11:47	11:54	0.12	4,008.00	4,063.00	55.00	471.43	Rotating	
15 Aug 2021	11:54	12:03	0.15	4,063.00	4,063.00			Survey & Connection	
15 Aug 2021	12:03	12:22	0.32	4,063.00	4,108.00	45.00	142.11	Sliding	
15 Aug 2021	12:22	12:29	0.12	4,108.00	4,158.00	50.00	428.57	Rotating	
15 Aug 2021	12:29	12:38	0.15	4,158.00	4,158.00			Survey & Connection	
15 Aug 2021	12:38	12:57	0.32	4,158.00	4,203.00	45.00	142.11	Sliding	
15 Aug 2021	12:57	13:01	0.07	4,203.00	4,221.00	18.00	270.00	Rotating	
15 Aug 2021	13:01	13:03	0.03	4,221.00	4,221.00			Survey & Connection	Bottom Line Check - GOOD
15 Aug 2021	13:03	14:12	1.15	4,221.00	4,221.00			Circulate and/or Condition Mud	
15 Aug 2021	14:12	15:30	1.30	4,221.00	4,221.00			Short Trip Out	
15 Aug 2021	15:30	17:15	1.75	4,221.00	4,221.00			Short Trip In	TIH T/ 4158'
15 Aug 2021	17:15	18:20	1.08	4,221.00	4,221.00			Circulate and/or Condition Mud	Break Circulation - Wash / Ream F/ 4158' T/ 4221' - Circulate
15 Aug 2021	18:20	20:30	2.17	4,221.00	4,221.00			Tripping Out	
15 Aug 2021	20:30	22:25	1.92	4,221.00	4,221.00			Change BHA	
BHA #2 Curve									
15 Aug 2021	22:25	00:30	2.08	4,221.00	4,221.00			Tripping In	
16 Aug 2021	00:30	00:40	0.17	4,221.00	4,221.00			Circulate and/or Condition Mud	Fill Pipe
16 Aug 2021	00:40	00:52	0.20	4,221.00	4,221.00			Circulate and/or Condition Mud	Circ- Fill Pipe - Wash T/ 4221'
16 Aug 2021	00:52	01:03	0.18	4,221.00	4,236.00	15.00	81.82	Sliding	
16 Aug 2021	01:03	01:30	0.45	4,236.00	4,236.00			Service Rig	
16 Aug 2021	01:30	01:35	0.08	4,236.00	4,236.00			Survey & Connection	
16 Aug 2021	01:35	01:54	0.32	4,236.00	4,294.00	58.00	183.16	Rotating	
16 Aug 2021	01:54	02:13	0.32	4,294.00	4,331.00	37.00	116.84	Sliding	
16 Aug 2021	02:13	02:18	0.08	4,331.00	4,331.00			Survey & Connection	
16 Aug 2021	02:18	02:38	0.33	4,331.00	4,366.00	35.00	105.00	Sliding	
16 Aug 2021	02:38	02:44	0.10	4,366.00	4,395.00	29.00	290.00	Rotating	
16 Aug 2021	02:44	02:49	0.08	4,395.00	4,395.00			Deviation Survey	
16 Aug 2021	02:49	03:03	0.23	4,395.00	4,426.00	31.00	132.86	Sliding	
16 Aug 2021	03:03	03:08	0.08	4,426.00	4,426.00			Survey & Connection	
16 Aug 2021	03:08	03:30	0.37	4,426.00	4,492.00	66.00	180.00	Sliding	
16 Aug 2021	03:30	03:40	0.17	4,492.00	4,521.00	29.00	174.00	Rotating	
16 Aug 2021	03:40	03:45	0.08	4,521.00	4,521.00			Survey & Connection	
16 Aug 2021	03:45	04:00	0.25	4,521.00	4,561.00	40.00	160.00	Sliding	
16 Aug 2021	04:00	04:15	0.25	4,561.00	4,616.00	55.00	220.00	Rotating	
16 Aug 2021	04:15	04:20	0.08	4,616.00	4,616.00			Circulate and/or Condition Mud	SPR's
16 Aug 2021	04:20	04:25	0.08	4,616.00	4,616.00			Survey & Connection	
16 Aug 2021	04:25	04:38	0.22	4,616.00	4,656.00	40.00	184.62	Sliding	



DJR Operating DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

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
16 Aug 2021	04:38	05:00	0.37	4,656.00	4,711.00	55.00	150.00	Rotating	
16 Aug 2021	05:00	05:05	0.08	4,711.00	4,711.00			Survey & Connection	
16 Aug 2021	05:05	05:20	0.25	4,711.00	4,806.00	95.00	380.00	Sliding	
16 Aug 2021	05:20	05:29	0.15	4,806.00	4,806.00			Survey & Connection	
16 Aug 2021	05:29	05:44	0.25	4,806.00	4,886.00	80.00	320.00	Sliding	
16 Aug 2021	05:44	05:48	0.07	4,886.00	4,901.00	15.00	225.00	Rotating	
16 Aug 2021	05:48	05:56	0.13	4,901.00	4,901.00			Survey & Connection	
16 Aug 2021	05:56	06:12	0.27	4,901.00	4,986.00	85.00	318.75	Sliding	
16 Aug 2021	06:12	06:15	0.05	4,986.00	4,996.00	10.00	200.00	Rotating	
16 Aug 2021	06:15	06:20	0.08	4,996.00	4,996.00			Survey & Connection	
16 Aug 2021	06:20	06:33	0.22	4,996.00	5,066.00	70.00	323.08	Sliding	
16 Aug 2021	06:33	06:40	0.12	5,066.00	5,091.00	25.00	214.29	Rotating	
16 Aug 2021	06:40	06:47	0.12	5,091.00	5,091.00			Survey & Connection	
16 Aug 2021	06:47	06:53	0.10	5,091.00	5,121.00	30.00	300.00	Sliding	
16 Aug 2021	06:53	07:08	0.25	5,121.00	5,186.00	65.00	260.00	Rotating	
16 Aug 2021	07:08	07:13	0.08	5,186.00	5,186.00			Survey & Connection	
16 Aug 2021	07:13	07:23	0.17	5,186.00	5,211.00	25.00	150.00	Rotating	
16 Aug 2021	07:23	07:31	0.13	5,211.00	5,251.00	40.00	300.00	Sliding	
16 Aug 2021	07:31	07:43	0.20	5,251.00	5,281.00	30.00	150.00	Rotating	
16 Aug 2021	07:43	07:48	0.08	5,281.00	5,281.00			Survey & Connection	
16 Aug 2021	07:48	08:06	0.30	5,281.00	5,344.00	63.00	210.00	Rotating	
16 Aug 2021	08:06	08:10	0.07	5,344.00	5,360.00	16.00	240.00	Sliding	
16 Aug 2021	08:10	08:15	0.08	5,360.00	5,376.00	16.00	192.00	Rotating	
16 Aug 2021	08:15	08:20	0.08	5,376.00	5,376.00			Survey & Connection	
16 Aug 2021	08:20	08:25	0.08	5,376.00	5,386.00	10.00	120.00	Rotating	
16 Aug 2021	08:25	09:25	1.00	5,386.00	5,386.00			Circulate and/or Condition Mud	
16 Aug 2021	09:25	10:05	0.67	5,386.00	5,386.00			Short Trip Out	
16 Aug 2021	10:05	10:45	0.67	5,386.00	5,386.00			Short Trip In	
16 Aug 2021	10:45	11:50	1.08	5,386.00	5,386.00			Circulate and/or Condition Mud	
16 Aug 2021	11:50	16:15	4.42	5,386.00	5,386.00			Tripping Out	Lay Down DP
16 Aug 2021	16:15	17:30	1.25	5,386.00	5,386.00			Change BHA	Lay Down BHA
16 Aug 2021	17:30	19:00	25.50	5,386.00	5,386.00			Standby	
BHA #3 Lateral									
17 Aug 2021	19:00	20:30	1.50	5,386.00	5,386.00			Change BHA	
17 Aug 2021	20:30	00:00	3.50	5,386.00	5,386.00			Tripping In	TIH Picking Up Drill Pipe
18 Aug 2021	00:00	01:15	1.25	5,386.00	5,386.00			Tripping In	TIH T/ 2448'
18 Aug 2021	01:15	01:20	0.08	5,386.00	5,386.00			Circulate and/or Condition Mud	Circ - Fill Pipe - Pump On String 250 GPM's @ 900 PSI
18 Aug 2021	01:20	01:25	0.08	5,386.00	5,386.00			Other	M/U Agitator
18 Aug 2021	01:25	01:28	0.05	5,386.00	5,386.00			Tripping In	TIH 2 Joints
18 Aug 2021	01:28	01:31	0.05	5,386.00	5,386.00			Circulate and/or Condition Mud	Test Agitator - 250 GPM's @ 1320 PSI
18 Aug 2021	01:31	04:30	2.98	5,386.00	5,386.00			Tripping In	TIH T/ 4837'
18 Aug 2021	04:30	05:35	1.08	5,386.00	5,386.00			Rig Repair	Replace Grabber Box Dies On Top Drive
18 Aug 2021	05:35	06:45	1.17	5,386.00	5,386.00			Tripping In	
18 Aug 2021	06:45	08:35	1.83	5,386.00	5,386.00			Other	C/O Rot Head
18 Aug 2021	08:35	09:00	0.42	5,386.00	5,386.00			Circulate and/or Condition Mud	Rolling Hole W/WBM
18 Aug 2021	09:00	09:23	0.38	5,386.00	5,386.00			Drill Cement and/or Float Equipment	
18 Aug 2021	09:23	09:29	0.10	5,386.00	5,415.00	29.00	290.00	Rotating	
18 Aug 2021	09:29	09:50	0.35	5,415.00	5,415.00			Connection (drilling)	
18 Aug 2021	09:50	10:05	0.25	5,415.00	5,460.00	45.00	180.00	Rotating	
18 Aug 2021	10:05	10:13	0.13	5,460.00	5,460.00			Other	Synch Up EM
18 Aug 2021	10:13	10:25	0.20	5,460.00	5,476.00	16.00	80.00	Sliding	
18 Aug 2021	10:25	10:36	0.18	5,476.00	5,506.00	30.00	163.64	Rotating	
18 Aug 2021	10:36	10:41	0.08	5,506.00	5,506.00			Survey & Connection	
18 Aug 2021	10:41	10:57	0.27	5,506.00	5,550.00	44.00	165.00	Rotating	
18 Aug 2021	10:57	11:03	0.10	5,550.00	5,565.00	15.00	150.00	Sliding	
18 Aug 2021	11:03	11:14	0.18	5,565.00	5,599.00	34.00	185.45	Rotating	
18 Aug 2021	11:14	11:22	0.13	5,599.00	5,599.00			Survey & Connection	
18 Aug 2021	11:22	11:32	0.17	5,599.00	5,641.00	42.00	252.00	Rotating	
18 Aug 2021	11:32	11:40	0.13	5,641.00	5,659.00	18.00	135.00	Sliding	
18 Aug 2021	11:40	11:47	0.12	5,659.00	5,692.00	33.00	282.86	Rotating	
18 Aug 2021	11:47	11:54	0.12	5,692.00	5,692.00			Survey & Connection	



DJR Operating
DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

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
18 Aug 2021	11:54	12:01	0.12	5,692.00	5,715.00	23.00	197.14	Rotating	
18 Aug 2021	12:01	12:07	0.10	5,715.00	5,728.00	13.00	130.00	Sliding	
18 Aug 2021	12:07	12:19	0.20	5,728.00	5,785.00	57.00	285.00	Rotating	
18 Aug 2021	12:19	12:33	0.23	5,785.00	5,785.00			Survey & Connection	
18 Aug 2021	12:33	12:51	0.30	5,785.00	5,876.00	91.00	303.33	Rotating	
18 Aug 2021	12:51	13:01	0.17	5,876.00	5,876.00			Survey & Connection	
18 Aug 2021	13:01	13:07	0.10	5,876.00	5,888.00	12.00	120.00	Sliding	
18 Aug 2021	13:07	13:23	0.27	5,888.00	5,969.00	81.00	303.75	Rotating	
18 Aug 2021	13:23	13:29	0.10	5,969.00	5,969.00			Survey & Connection	
18 Aug 2021	13:29	13:49	0.33	5,969.00	6,062.00	93.00	279.00	Rotating	
18 Aug 2021	13:49	13:59	0.17	6,062.00	6,062.00			Survey & Connection	
18 Aug 2021	13:59	14:05	0.10	6,062.00	6,072.00	10.00	100.00	Sliding	
18 Aug 2021	14:05	14:23	0.30	6,072.00	6,154.00	82.00	273.33	Rotating	
18 Aug 2021	14:23	14:30	0.12	6,154.00	6,154.00			Survey & Connection	
18 Aug 2021	14:30	14:50	0.33	6,154.00	6,246.00	92.00	276.00	Rotating	
18 Aug 2021	14:50	14:55	0.08	6,246.00	6,246.00			Survey & Connection	
18 Aug 2021	14:55	15:19	0.40	6,246.00	6,339.00	93.00	232.50	Rotating	
18 Aug 2021	15:19	15:24	0.08	6,339.00	6,339.00			Survey & Connection	
18 Aug 2021	15:24	15:42	0.30	6,339.00	6,431.00	92.00	306.67	Rotating	
18 Aug 2021	15:42	15:47	0.08	6,431.00	6,431.00			Survey & Connection	
18 Aug 2021	15:47	15:55	0.13	6,431.00	6,444.00	13.00	97.50	Sliding	
18 Aug 2021	15:55	16:15	0.33	6,444.00	6,523.00	79.00	237.00	Rotating	
18 Aug 2021	16:15	16:22	0.12	6,523.00	6,523.00			Survey & Connection	
18 Aug 2021	16:22	16:40	0.30	6,523.00	6,615.00	92.00	306.67	Rotating	
18 Aug 2021	16:40	17:15	0.58	6,615.00	6,615.00			Lubricate Rig	
18 Aug 2021	17:15	17:19	0.07	6,615.00	6,615.00			Survey & Connection	
18 Aug 2021	17:19	17:33	0.23	6,615.00	6,633.00	18.00	77.14	Sliding	
18 Aug 2021	17:33	17:55	0.37	6,633.00	6,707.00	74.00	201.82	Rotating	
18 Aug 2021	17:55	18:00	0.08	6,707.00	6,707.00			Survey & Connection	
18 Aug 2021	18:00	18:25	0.42	6,707.00	6,798.00	91.00	218.40	Rotating	
18 Aug 2021	18:25	18:30	0.08	6,798.00	6,798.00			Survey & Connection	
18 Aug 2021	18:30	18:40	0.17	6,798.00	6,808.00	10.00	60.00	Sliding	
18 Aug 2021	18:40	19:13	0.55	6,808.00	6,890.00	82.00	149.09	Rotating	
18 Aug 2021	19:13	19:18	0.08	6,890.00	6,890.00			Survey & Connection	
18 Aug 2021	19:18	19:40	0.37	6,890.00	6,982.00	92.00	250.91	Rotating	
18 Aug 2021	19:40	19:50	0.17	6,982.00	6,982.00			Survey & Connection	
18 Aug 2021	19:50	20:12	0.37	6,982.00	6,998.00	16.00	43.64	Sliding	Oscillating By Hand
18 Aug 2021	20:12	20:35	0.38	6,998.00	7,074.00	76.00	198.26	Rotating	
18 Aug 2021	20:35	20:40	0.08	7,074.00	7,074.00			Survey & Connection	
18 Aug 2021	20:40	20:52	0.20	7,074.00	7,084.00	10.00	50.00	Rotating	
18 Aug 2021	20:52	21:14	0.37	7,084.00	7,094.00	10.00	27.27	Sliding	Orient TF - Stacking 80K To Get To Bottom - Oscillate To Bottom
18 Aug 2021	21:14	21:38	0.40	7,094.00	7,165.00	71.00	177.50	Rotating	
18 Aug 2021	21:38	22:09	0.52	7,165.00	7,165.00			Circulate and/or Condition Mud	Circulate - Clean Up Cycle
18 Aug 2021	22:09	22:14	0.08	7,165.00	7,165.00			Survey & Connection	
18 Aug 2021	22:14	22:35	0.35	7,165.00	7,258.00	93.00	265.71	Rotating	
18 Aug 2021	22:35	22:40	0.08	7,258.00	7,258.00			Survey & Connection	
18 Aug 2021	22:40	23:00	0.33	7,258.00	7,350.00	92.00	276.00	Rotating	
18 Aug 2021	23:00	23:05	0.08	7,350.00	7,350.00			Survey & Connection	
18 Aug 2021	23:05	23:25	0.33	7,350.00	7,442.00	92.00	276.00	Rotating	
18 Aug 2021	23:25	23:30	0.08	7,442.00	7,442.00			Survey & Connection	
18 Aug 2021	23:30	23:41	0.18	7,442.00	7,448.00	6.00	32.73	Sliding	
18 Aug 2021	23:41	00:07	0.43	7,448.00	7,534.00	86.00	198.46	Rotating	
19 Aug 2021	00:07	00:12	0.08	7,534.00	7,534.00			Survey & Connection	Bottom Line Check - GOOD
19 Aug 2021	00:12	00:17	0.08	7,534.00	7,545.00	11.00	132.00	Rotating	
19 Aug 2021	00:17	00:28	0.18	7,545.00	7,553.00	8.00	43.64	Sliding	
19 Aug 2021	00:28	00:47	0.32	7,553.00	7,625.00	72.00	227.37	Rotating	
19 Aug 2021	00:47	00:53	0.10	7,625.00	7,625.00			Survey & Connection	
19 Aug 2021	00:53	01:14	0.35	7,625.00	7,717.00	92.00	262.86	Rotating	
19 Aug 2021	01:14	01:19	0.08	7,717.00	7,717.00			Survey & Connection	
19 Aug 2021	01:19	01:28	0.15	7,717.00	7,745.00	28.00	186.67	Rotating	
19 Aug 2021	01:28	01:38	0.17	7,745.00	7,755.00	10.00	60.00	Sliding	



DJR Operating DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

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
19 Aug 2021	01:38	01:57	0.32	7,755.00	7,811.00	56.00	176.84	Rotating	
19 Aug 2021	01:57	02:01	0.07	7,811.00	7,811.00			Survey & Connection	
19 Aug 2021	02:01	02:14	0.22	7,811.00	7,841.00	30.00	138.46	Rotating	
19 Aug 2021	02:14	02:18	0.07	7,841.00	7,841.00			Circulate and/or Condition Mud	Check Shot @ 7790 Inc 89.06 Azm 137.35
19 Aug 2021	02:18	02:32	0.23	7,841.00	7,853.00	12.00	51.43	Sliding	Continuous Inc @ 89.45
19 Aug 2021	02:32	02:47	0.25	7,853.00	7,903.00	50.00	200.00	Rotating	
19 Aug 2021	02:47	02:52	0.08	7,903.00	7,903.00			Survey & Connection	
19 Aug 2021	02:52	02:59	0.12	7,903.00	7,919.00	16.00	137.14	Rotating	
19 Aug 2021	02:59	03:11	0.20	7,919.00	7,932.00	13.00	65.00	Sliding	
19 Aug 2021	03:11	03:32	0.35	7,932.00	7,995.00	63.00	180.00	Rotating	
19 Aug 2021	03:32	03:37	0.08	7,995.00	7,995.00			Survey & Connection	
19 Aug 2021	03:37	03:58	0.35	7,995.00	8,087.00	92.00	262.86	Rotating	
19 Aug 2021	03:58	04:03	0.08	8,087.00	8,087.00			Survey & Connection	
19 Aug 2021	04:03	04:24	0.35	8,087.00	8,179.00	92.00	262.86	Rotating	
19 Aug 2021	04:24	04:29	0.08	8,179.00	8,179.00			Survey & Connection	
19 Aug 2021	04:29	04:49	0.33	8,179.00	8,272.00	93.00	279.00	Rotating	
19 Aug 2021	04:49	04:54	0.08	8,272.00	8,272.00			Survey & Connection	
19 Aug 2021	04:54	05:14	0.33	8,272.00	8,364.00	92.00	276.00	Rotating	
19 Aug 2021	05:14	05:21	0.12	8,364.00	8,364.00			Survey & Connection	
19 Aug 2021	05:21	05:38	0.28	8,364.00	8,456.00	92.00	324.71	Rotating	
19 Aug 2021	05:38	05:51	0.22	8,456.00	8,456.00			Survey & Connection	
19 Aug 2021	05:51	06:08	0.28	8,456.00	8,466.00	10.00	35.29	Sliding	
19 Aug 2021	06:08	06:24	0.27	8,466.00	8,548.00	82.00	307.50	Rotating	
19 Aug 2021	06:24	06:32	0.13	8,548.00	8,548.00			Survey & Connection	
19 Aug 2021	06:32	06:56	0.40	8,548.00	8,640.00	92.00	230.00	Rotating	
19 Aug 2021	06:56	07:04	0.13	8,640.00	8,640.00			Survey & Connection	
19 Aug 2021	07:04	07:21	0.28	8,640.00	8,694.00	54.00	190.59	Rotating	
19 Aug 2021	07:21	07:30	0.15	8,694.00	8,704.00	10.00	66.67	Sliding	
19 Aug 2021	07:30	07:36	0.10	8,704.00	8,732.00	28.00	280.00	Rotating	
19 Aug 2021	07:36	07:44	0.13	8,732.00	8,732.00			Survey & Connection	
19 Aug 2021	07:44	08:04	0.33	8,732.00	8,784.00	52.00	156.00	Rotating	
19 Aug 2021	08:04	08:37	0.55	8,784.00	8,797.00	13.00	23.64	Sliding	
19 Aug 2021	08:37	08:42	0.08	8,797.00	8,824.00	27.00	324.00	Rotating	
19 Aug 2021	08:42	08:52	0.17	8,824.00	8,824.00			Survey & Connection	
19 Aug 2021	08:52	09:01	0.15	8,824.00	8,835.00	11.00	73.33	Rotating	
19 Aug 2021	09:01	09:23	0.37	8,835.00	8,850.00	15.00	40.91	Sliding	
19 Aug 2021	09:23	09:38	0.25	8,850.00	8,916.00	66.00	264.00	Rotating	
19 Aug 2021	09:38	09:45	0.12	8,916.00	8,916.00			Survey & Connection	
19 Aug 2021	09:45	09:54	0.15	8,916.00	8,926.00	10.00	66.67	Rotating	
19 Aug 2021	09:54	10:35	0.68	8,926.00	8,944.00	18.00	26.34	Sliding	
19 Aug 2021	10:35	10:47	0.20	8,944.00	9,009.00	65.00	325.00	Rotating	
19 Aug 2021	10:47	10:55	0.13	9,009.00	9,009.00			Survey & Connection	
19 Aug 2021	10:55	11:04	0.15	9,009.00	9,019.00	10.00	66.67	Rotating	
19 Aug 2021	11:04	11:39	0.58	9,019.00	9,044.00	25.00	42.86	Sliding	
19 Aug 2021	11:39	11:50	0.18	9,044.00	9,100.00	56.00	305.45	Rotating	
19 Aug 2021	11:50	11:59	0.15	9,100.00	9,100.00			Survey & Connection	
19 Aug 2021	11:59	12:17	0.30	9,100.00	9,192.00	92.00	306.67	Rotating	
19 Aug 2021	12:17	12:30	0.22	9,192.00	9,192.00			Survey & Connection	
19 Aug 2021	12:30	12:35	0.08	9,192.00	9,215.00	23.00	276.00	Rotating	Rotating Ahead After Connection ROP Stopped, No Differential PSI And Stacking Weight- Trouble Shoot Motor Possible Drive Shaft Broken.
19 Aug 2021	12:35	13:53	1.30	9,215.00	9,215.00			Circulate and/or Condition Mud	
19 Aug 2021	13:53	18:50	4.95	9,215.00	9,215.00			Tripping Out	
19 Aug 2021	18:50	20:40	1.83	9,215.00	9,215.00			Change BHA	
BHA #4 Lateral									
19 Aug 2021	20:40	21:12	0.53	9,215.00	9,215.00			Tripping In	TIH T/ 1626'
19 Aug 2021	21:12	21:23	0.18	9,215.00	9,215.00			Circulate and/or Condition Mud	Fill Pipe - 200 GPM's @ 300 PSI
19 Aug 2021	21:23	21:30	0.12	9,215.00	9,215.00			Other	M/U Agitator
19 Aug 2021	21:30	21:35	0.08	9,215.00	9,215.00			Circulate and/or Condition Mud	Test Agitator - 200 GPM's @ 420 PSI
19 Aug 2021	21:35	00:00	2.42	9,215.00	9,215.00			Tripping In	
20 Aug 2021	00:00	01:25	1.42	9,215.00	9,215.00			Tripping In	TIH T/ 8313' - Taking Weight
20 Aug 2021	01:25	01:34	0.15	9,215.00	9,215.00			Circulate and/or Condition Mud	Circulate - Fill Pipe - Wash / Ream F/ 8313' T/ 8406'



DJR Operating

DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

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
20 Aug 2021	01:34	01:55	0.35	9,215.00	9,215.00			Tripping In	TIH T/ 8955`
20 Aug 2021	01:55	02:25	0.50	9,215.00	9,215.00			Circulate and/or Condition Mud	Circ - Wash And Ream F/ 8955` T/ 9215`
20 Aug 2021	02:25	02:43	0.30	9,215.00	9,285.00	70.00	233.33	Rotating	
20 Aug 2021	02:43	02:47	0.07	9,285.00	9,285.00			Survey & Connection	
20 Aug 2021	02:47	02:54	0.12	9,285.00	9,313.00	28.00	240.00	Rotating	
20 Aug 2021	02:54	02:58	0.07	9,313.00	9,313.00			Circulate and/or Condition Mud	Check Shot @ 9262` Inc 93.65 Azm 131.10
20 Aug 2021	02:58	03:12	0.23	9,313.00	9,321.00	8.00	34.29	Sliding	
20 Aug 2021	03:12	03:30	0.30	9,321.00	9,376.00	55.00	183.33	Rotating	
20 Aug 2021	03:30	03:35	0.08	9,376.00	9,376.00			Survey & Connection	
20 Aug 2021	03:35	03:58	0.38	9,376.00	9,468.00	92.00	240.00	Rotating	
20 Aug 2021	03:58	04:03	0.08	9,468.00	9,468.00			Survey & Connection	
20 Aug 2021	04:03	04:16	0.22	9,468.00	9,537.00	69.00	318.46	Rotating	
20 Aug 2021	04:16	04:21	0.08	9,537.00	9,537.00			Deviation Survey	
20 Aug 2021	04:21	05:55	1.57	9,537.00	9,537.00			Circulate and/or Condition Mud	
20 Aug 2021	05:55	07:04	1.15	9,537.00	9,537.00			Tripping Out	
20 Aug 2021	07:04	08:27	1.38	9,537.00	9,537.00			Circulate and/or Condition Mud	
20 Aug 2021	08:27	12:00	3.55	9,537.00	9,537.00			Tripping Out	
20 Aug 2021	12:00	12:30	0.50	9,537.00	9,537.00			Change BHA	
20 Aug 2021	12:30	00:00	11.50	9,537.00	9,537.00			Standby	Casing 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															
382.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
598.00	535.00	1.33	162.81	534.95	0.25	162.71	0.25	0.15		30.00	4.43	0.04	30.00	48 M	186.00
691.00	628.00	2.88	157.63	627.89	1.68	-9.59	1.67	0.20	-5.57	25.00	6.24	0.06	25.00	30 M	68.00
783.00	720.00	1.99	105.05	719.81	2.50	-136.58	-0.97	-0.10	-57.15	29.00	7.93	0.08	35.00	30 M	57.00
845.00	782.00	2.19	75.82	781.77	1.73	-94.21	0.32	0.11	-47.15	6.00	17.87	0.18	40.00	15 M	22.00
935.00	872.00	4.13	40.20	871.64	2.97	-64.08	2.16	0.16	-39.58	40.00	6.68	0.07	40.00	-20	50.00
1,012.00	949.00	6.28	34.29	948.32	2.87	-16.96	2.79	0.18	-7.68	40.00	5.53	0.06	45.00	0	32.00
1,060.00	997.00	8.18	32.57	995.93	3.98	-7.35	3.96	0.21	-3.58	30.00	6.37	0.06			48.00
1,150.00	1,087.00	10.65	32.66	1,084.72	2.74	0.39	2.74	0.19	0.10	42.00	5.88	0.06	40.00	0	50.00
1,241.00	1,178.00	12.28	34.38	1,173.90	1.83	12.69	1.79	0.14	1.89	39.00	4.27	0.04	26.00	10	65.00
1,331.00	1,268.00	12.99	35.74	1,261.72	0.86	23.40	0.79	0.09	1.51	27.00	2.85	0.03	30.00	20	60.00
1,423.00	1,360.00	14.40	40.96	1,351.10	2.04	43.79	1.53	0.17	5.67	28.00	6.69	0.07	25.00	60	67.00
1,516.00	1,453.00	11.89	39.48	1,441.66	2.72	-173.08	-2.70		-1.59						93.00
1,607.00	1,544.00	11.43	46.19	1,530.78	1.57	112.00	-0.51	-0.05	7.37	28.00	5.11	0.05	40.00	45	51.00
1,698.00	1,635.00	12.31	46.26	1,619.84	0.97	0.97	0.97	0.07	0.08	40.00	2.20	0.02	35.00	10	56.00
1,787.00	1,724.00	13.84	49.64	1,706.53	1.92	28.21	1.72	0.15	3.80	33.00	5.18	0.05	32.00	20	57.00
1,880.00	1,817.00	12.48	49.59	1,797.09	1.46	-179.54	-1.46	-0.74	-0.05	6.00	22.67	0.23			93.00
1,974.00	1,911.00	13.42	47.31	1,888.69	1.14	-29.64	1.00	0.10	-2.43	31.00	3.45	0.03	40.00	0	54.00
2,069.00	2,006.00	13.82	47.54	1,981.02	0.42	7.82	0.42	0.07	0.24	20.00	2.02	0.02	30.00	40	65.00
2,164.00	2,101.00	16.60	51.77	2,072.69	3.15	23.81	2.93	0.30	4.45	30.00	9.97	0.10	11.00	70	84.00
2,259.00	2,196.00	17.85	53.07	2,163.43	1.38	17.74	1.32		1.37						95.00
2,353.00	2,290.00	16.91	53.81	2,253.13	1.03	167.12	-1.00	-0.21	0.79	15.00	6.44	0.06	23.00	-170	71.00
2,448.00	2,385.00	16.80	54.41	2,344.05	0.22	122.59	-0.12	-0.05	0.63	8.00	2.57	0.03			95.00
2,543.00	2,480.00	15.38	49.82	2,435.33	2.01	-140.33	-1.49	-0.19	-4.83	25.00	7.62	0.08	25.00	-150	70.00
2,638.00	2,575.00	13.87	46.83	2,527.25	1.78	-154.88	-1.59	-0.25	-3.15	20.00	8.44	0.08	20.00	-170	75.00
2,733.00	2,670.00	11.32	47.39	2,619.96	2.69	177.53	-2.68	-0.38	0.59	22.00	11.60	0.12	22.00	170	73.00
2,828.00	2,765.00	10.03	45.95	2,713.31	1.39	-169.02	-1.36		-1.52						95.00
2,923.00	2,860.00	9.26	50.47	2,806.97	1.14	137.69	-0.81	-0.17	4.76	15.00	7.20	0.07	15.00	50	80.00
3,018.00	2,955.00	10.89	50.44	2,900.50	1.72	-0.20	1.72	0.21	-0.03	25.00	6.52	0.07	25.00	0	70.00
3,113.00	3,050.00	12.42	49.41	2,993.54	1.63	-8.25	1.61	0.20	-1.08	25.00	6.18	0.06	25.00	0	70.00
3,208.00	3,145.00	11.32	49.39	3,086.51	1.16	-179.80	-1.16		-0.02						95.00
3,303.00	3,240.00	12.91	50.39	3,179.39	1.69	8.01	1.67	0.26	1.05	20.00	8.02	0.08	20.00	0	75.00
3,398.00	3,335.00	12.21	49.66	3,272.12	0.76	-167.58	-0.74		-0.77						95.00
3,493.00	3,430.00	11.28	50.53	3,365.13	1.00	169.64	-0.98		0.92						95.00
3,588.00	3,525.00	10.81	45.62	3,458.37	1.11	-118.94	-0.49	-0.10	-5.17	15.00	7.01	0.07	15.00	0	80.00
3,683.00	3,620.00	9.90	43.76	3,551.82	1.02	-160.74	-0.96	-0.15	-1.96	20.00	4.85	0.05	20.00	20	75.00
3,778.00	3,715.00	10.12	45.67	3,645.37	0.42	57.41	0.23	0.02	2.01	30.00	1.33	0.01	30.00	35	65.00



DJR Operating
DJR, Bettonie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

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)
3,873.00	3,810.00	12.58	48.36	3,738.51	2.65	13.47	2.59	0.25	2.83	32.00	7.86	0.08	35.00	40	60.00
3,968.00	3,905.00	11.28	45.98	3,831.46	1.46	-160.43	-1.37	-0.24	-2.51	18.00	7.72	0.08	15.00	0	80.00
4,063.00	4,000.00	10.99	52.19	3,924.67	1.30	106.63	-0.31	-0.03	6.54	32.00	3.85	0.04	40.00	30	55.00
4,158.00	4,095.00	10.31	47.37	4,018.04	1.18	-129.71	-0.72	-0.06	-5.07	40.00	2.80	0.03	45.00	0	50.00
4,221.00	4,158.00	8.83	45.73	4,080.16	2.39	-170.37	-2.35	-0.37	-2.60	13.00	11.58	0.12	45.00	0	18.00
BHA #2 Curve															
4,221.00	4,158.00	8.83	45.73	4,080.16	0.00	0.00	0.00								
4,236.00	4,179.00	9.63	46.63	4,100.89	3.87	10.67	3.81		4.29				15.00	30	
4,331.00	4,274.00	11.50	52.72	4,194.27	2.29	33.86	1.97	0.41	6.41	15.00	14.50	0.15	37.00	75	58.00
4,395.00	4,338.00	15.68	82.89	4,256.54	12.65	74.76	6.53	0.31	47.14	44.00	18.39	0.18	35.00	60	29.00
4,426.00	4,369.00	18.36	88.29	4,286.19	10.03	33.13	8.65	0.31	17.42	28.00	11.10	0.11	31.00	50	
4,521.00	4,464.00	26.44	111.32	4,374.11	12.41	58.47	8.51	0.38	24.24	69.00	17.09	0.17	66.00	45	29.00
4,616.00	4,559.00	33.48	120.41	4,456.41	8.80	36.83	7.41	0.35	9.57	66.00	12.67	0.13	40.00	20	55.00
4,711.00	4,654.00	35.58	119.79	4,534.67	2.24	-9.76	2.21	0.17	-0.65	40.00	5.32	0.05	40.00	10	55.00
4,806.00	4,749.00	37.20	121.98	4,611.14	2.19	39.62	1.71	0.13	2.31	40.00	5.19	0.05	95.00	30	
4,901.00	4,844.00	45.62	130.08	4,682.38	10.49	35.58	8.86	0.29	8.53	95.00	10.49	0.10	80.00	20	15.00
4,996.00	4,939.00	53.17	130.43	4,744.16	7.95	2.13	7.95	0.31	0.37	80.00	9.44	0.09	85.00	0	10.00
5,091.00	5,034.00	66.41	132.08	4,791.86	14.02	6.58	13.94	0.51	1.74	85.00	15.67	0.16	70.00	10	25.00
5,186.00	5,129.00	75.99	130.43	4,822.44	10.22	-9.54	10.08	0.51	-1.74	62.00	15.66	0.16	30.00	0	65.00
5,281.00	5,224.00	79.08	130.12	4,842.95	3.27	-5.63	3.25	0.78	-0.33	13.00	23.88	0.24	40.00	15	55.00
5,376.00	5,319.00	82.12	131.72	4,858.46	3.61	27.58	3.20	0.37	1.68	27.00	12.69	0.13	16.00	30	79.00
BHA #3 Lateral															
5,386.00	5,319.00	82.12	131.72	4,858.46	0.00	0.00	0.00								10.00
5,506.00	5,455.00	85.57	133.55	4,873.04	2.87	27.91	2.54		1.35				16.00	90	104.00
5,599.00	5,547.00	85.57	136.84	4,880.15	3.57	90.13	0.00	0.00	3.58	16.00	20.50	0.21	15.00	0	78.00
5,692.00	5,640.00	88.32	135.33	4,885.11	3.37	-28.78	2.96	0.60	-1.62	15.00	20.91	0.21	18.00	0	75.00
5,785.00	5,734.00	91.88	134.84	4,884.94	3.82	-7.84	3.79	0.38	-0.52	31.00	11.59	0.12	13.00	20	80.00
5,876.00	5,825.00	92.28	135.05	4,881.64	0.50	27.68	0.44		0.23						91.00
5,969.00	5,918.00	89.77	136.15	4,879.98	2.95	156.33	-2.70	-0.69	1.18	12.00	22.84	0.23	12.00	180	81.00
6,062.00	6,011.00	89.53	135.38	4,880.54	0.87	-107.31	-0.26		-0.83						93.00
6,154.00	6,103.00	91.28	135.85	4,879.89	1.97	15.03	1.90	0.57	0.51	10.00	18.12	0.18	10.00	20	82.00
6,246.00	6,195.00	91.71	135.92	4,877.49	0.47	9.24	0.47		0.08						92.00
6,339.00	6,288.00	91.98	135.75	4,874.50	0.34	-32.18	0.29		-0.18						93.00
6,431.00	6,380.00	90.03	133.37	4,872.89	3.34	-129.31	-2.12		-2.59						92.00
6,523.00	6,472.00	91.37	132.82	4,871.76	1.57	-22.31	1.46	0.34	-0.60	13.00	11.14	0.11	13.00	20	79.00
6,615.00	6,564.00	89.90	131.86	4,870.74	1.91	-146.85	-1.60		-1.04						92.00
6,707.00	6,656.00	92.42	133.12	4,868.88	3.06	26.55	2.74	0.46	1.37	18.00	15.65	0.16	18.00	50	74.00
6,798.00	6,747.00	92.98	133.62	4,864.59	0.82	41.72	0.62		0.55						91.00
6,890.00	6,839.00	91.17	133.55	4,861.26	1.97	-177.79	-1.97	-0.59	-0.08	10.00	18.11	0.18	10.00	150	82.00
6,982.00	6,931.00	91.27	133.37	4,859.30	0.22	-60.94	0.11		-0.20						92.00
7,074.00	7,023.00	91.84	137.58	4,856.81	4.62	82.23	0.62	0.12	4.58	16.00	26.54	0.27	16.00	110	76.00
7,165.00	7,114.00	89.78	137.52	4,855.52	2.26	-178.33	-2.26	-0.68	-0.07	10.00	20.61	0.21	10.00	-170	81.00
7,258.00	7,207.00	89.63	137.30	4,856.00	0.29	-124.29	-0.16		-0.24						93.00
7,350.00	7,299.00	89.77	136.37	4,856.48	1.02	-81.44	0.15		-1.01						92.00
7,442.00	7,391.00	91.07	137.94	4,855.80	2.22	50.37	1.41		1.71						92.00
7,534.00	7,483.00	90.27	138.68	4,854.73	1.18	137.23	-0.87	-0.44	0.80	6.00	18.16	0.18	6.00	-160	86.00
7,625.00	7,574.00	88.86	137.95	4,855.42	1.74	-152.63	-1.55	-0.58	-0.80	8.00	19.85	0.20	8.00	-130	83.00
7,717.00	7,666.00	88.81	137.96	4,857.29	0.06	168.69	-0.05		0.01						92.00
7,811.00	7,760.00	88.86	136.86	4,859.20	1.17	-87.41	0.05	0.02	-1.17	10.00	11.01	0.11	10.00	-50	84.00
7,903.00	7,852.00	88.29	135.49	4,861.49	1.61	-112.61	-0.62	-0.17	-1.49	11.00	13.49	0.13	12.00	-60	80.00
7,995.00	7,944.00	89.97	133.15	4,862.89	3.13	-54.34	1.83	0.39	-2.54	14.00	20.57	0.21	13.00	-10	79.00
8,087.00	8,036.00	90.10	133.17	4,862.83	0.14	8.75	0.14		0.02						92.00
8,179.00	8,128.00	91.01	134.63	4,861.94	1.87	58.06	0.99		1.59						92.00
8,272.00	8,221.00	91.61	135.72	4,859.81	1.34	61.15	0.65		1.17						93.00
8,364.00	8,313.00	91.31	135.11	4,857.47	0.74	-116.19	-0.33		-0.66						92.00
8,456.00	8,405.00	91.61	135.79	4,855.12	0.81	66.18	0.33		0.74						92.00
8,548.00	8,497.00	88.56	133.99	4,854.99	3.85	-149.45	-3.32	-1.00	-1.96	10.00	35.41	0.35	10.00	-130	82.00
8,640.00	8,589.00	88.56	134.19	4,857.30	0.22	90.00	0.00		0.22						92.00
8,732.00	8,681.00	88.02	133.87	4,860.05	0.68	-149.37	-0.59		-0.35				10.00	-40	82.00
8,824.00	8,773.00	88.05	131.73	4,863.20	2.32	-89.23	0.03	0.01	-2.33	10.00	21.39	0.21	13.00	0	79.00
8,916.00	8,865.00	89.90	130.97	4,864.85	2.17	-22.34	2.01	0.22	-0.83	28.00	7.14	0.07	15.00	30	77.00



DJR Operating
DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

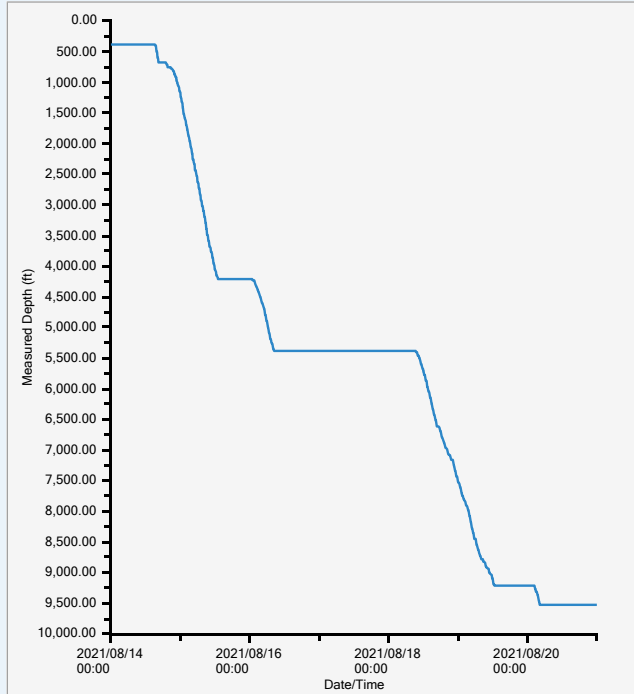
Slide Sheet															
Bit Depth (ft)	Survey Depth (ft)	Incl. (°)	(True) Azimuth (°)	Vertical Depth (ft)	Dogleg Rate (°/100ft)	Calc'd Toolface (°)	Build Rate (°/100ft)	Build Seen (°/ft)	Turn Rate (°/100ft)	Slide Seen (ft)	Motor Output (°/100ft)	Motor Output (°/ft)	Slide Length (ft)	Toolface Orient (°)	Rotate Length (ft)
9,009.00	8,958.00	90.60	131.57	4,864.44	0.99	40.60	0.75	0.13	0.65	18.00	5.12	0.05	18.00	50	75.00
9,100.00	9,049.00	93.66	131.13	4,861.06	3.40	-8.17	3.36	0.40	-0.48	25.00	12.37	0.12	25.00	60	66.00
9,192.00	9,141.00	93.46	131.25	4,855.35	0.25	149.08	-0.22		0.13						92.00
BHA #4 Lateral															
9,215.00	9,141.00	93.46	131.25	4,855.35	0.00	0.00	0.00								23.00
9,285.00	9,234.00	93.76	131.06	4,849.49	0.38	-32.29	0.32		-0.20						70.00
9,376.00	9,325.00	93.03	131.36	4,844.10	0.87	157.69	-0.80	-0.30	0.33	8.00	9.86	0.10	8.00	140	83.00
9,468.00	9,417.00	93.39	130.91	4,838.95	0.63	-51.28	0.39		-0.49						92.00
9,537.00	9,486.00	93.59	131.02	4,834.75	0.33	28.76	0.29		0.16						69.00



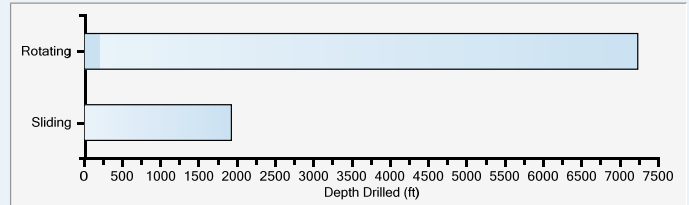
DJR Operating DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

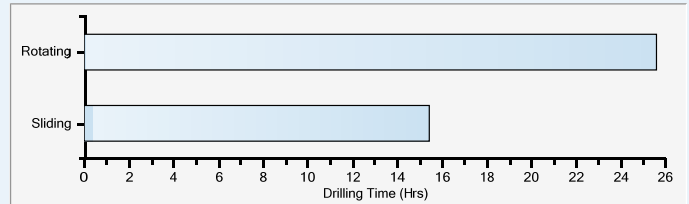
Time vs Depth



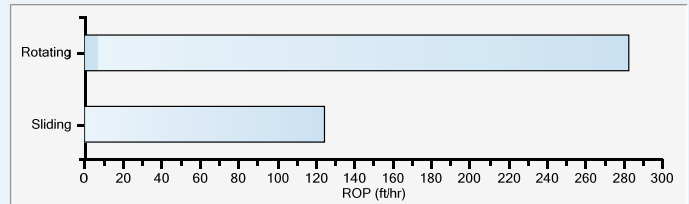
Depth Drilled



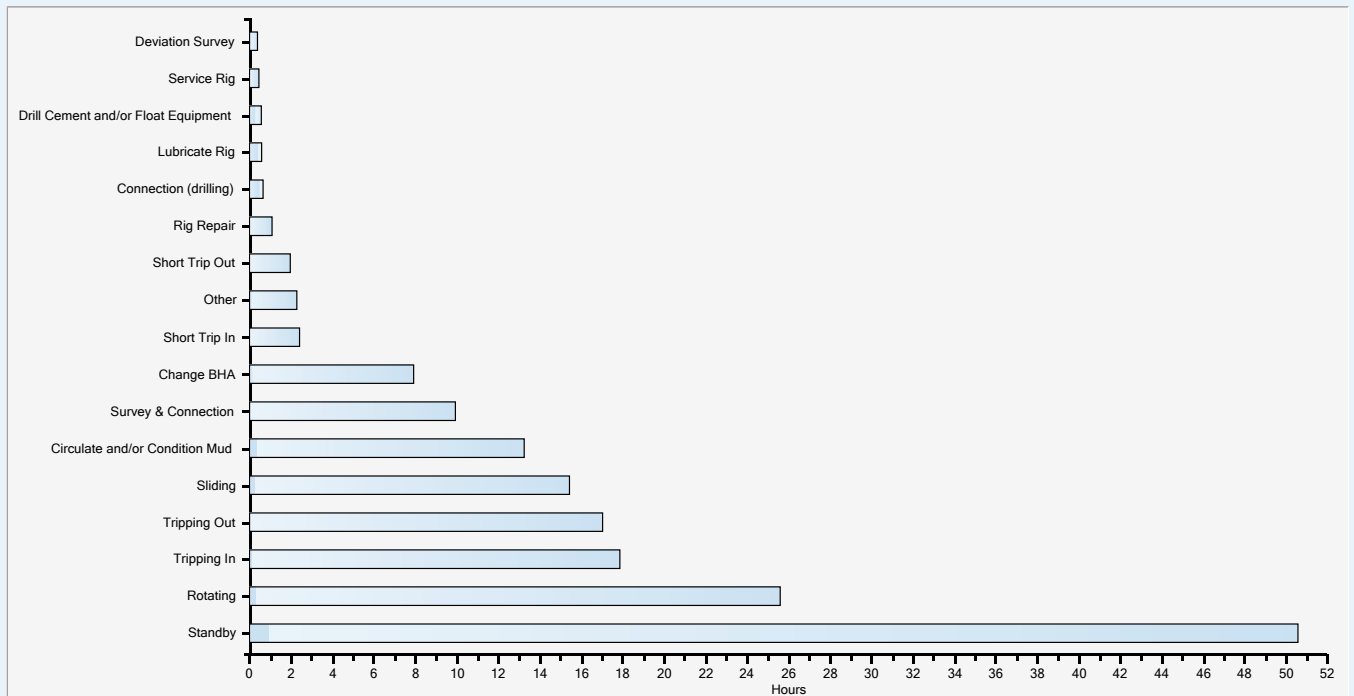
Drilling Time



Average Rate of Penetration



Activity





DJR Operating
DJR, Betonnie Tsosie Unit

End of Well Report for G34 2308 Pad, # 506H

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Client Representative:	Scientific Drilling Representative:	Scientific Drilling Directional Coordinator:	Scientific Drilling Manager:



SUPPORT STAFF

Dee Bailey – Rockies Base Manager
Casper, WY
(307) 472-6621
dee.bailey@scientificdrilling.com

Contract Well Planner:
Janie Collins

Directional Drillers:
J. Bussey, S. Gamble

MWD Operators:
A. Wright, E. Smith

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

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 91097

ACKNOWLEDGMENTS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 91097
	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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Phone:(505) 334-6178 Fax:(505) 334-6170
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CONDITIONS

Action 91097

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 91097
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

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