```
* BIT # 4     SMITH F2    BIT DIAMETER : 12.25 inch   NOZZ 13/13/13          MUD RHEOLOGICAL PARAMETERS : PV = 9  YP = 10  GEL = 2 *
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466809

	TIME	MEASURED	VERTCL	LAGGED	ROP	WOB	RPM	TORQ	PRESS	FLOW IN	PIT VOL	DENSITY IN	DENSITY OUT	TEMP IN	TEMP OUT	RES IN	RES OUT	GAS DCS	NORM	PF	ECD	FRAC	ACC FEET	TIME	COST
	Hr:mn	feet	feet	feet	ft/h	klbs	rpm	ftlb	psi	gpm	bbls	ppg	ppg	degF	degF	ohmm	ohmm	unit		ppg	ppg	ppg	feet	D:hr	$
D	22:12	722.1	758.1	278.0	17.3	16.8	57	1000	2260	587	577	8.2	.0	48.0	.0	.19	.00	14	1.22	.00	.0	9.0	6.7	2.1	.09	9498
D	22:50	772.0	733.5	422.0	253.4	5.1	71	500	2218	582	593	8.6	8.6	51.2	61.2	.19	.20	4	.69	.00	.0	9.4	6.7	2.0	.61	99999
D	22:59	820.5	890.6	465.0	300.2	16.8	70	600	2213	582	579	8.1	8.6	52.0	62.4	.19	.21	4	.59	.00	.0	8.7	7.0	159.1	.68	138
D	23:7	790.3	785.0	733.0	300.2	17.3	64	700	2213	582	581	6.3	8.6	52.5	62.2	.19	.20	4	.59	.00	.0	7.0	7.0	159.1	.75	138
D	23:7	791.7	785.0	733.0	300.2	15.2	69	600	2218	587	577	6.1	8.6	52.5	62.2	.19	.20	4	.59	.00	.0	6.8	7.0	159.1	.75	138
D	23:7	792.8	785.0	733.0	300.2	15.7	69	700	2210	587	577	6.0	8.6	52.5	62.2	.19	.20	4	.59	.00	.0	6.7	7.0	159.1	.75	138
D	23:7	793.6	785.0	733.0	300.2	13.9	69	900	2213	587	577	5.9	8.6	52.5	62.2	.19	.20	4	.59	.00	.0	6.6	7.0	159.1	.75	138
D	23:7	794.9	785.0	733.0	300.2	13.9	61	900	2213	587	577	6.1	8.6	52.5	62.3	.19	.20	4	.59	.00	.0	6.6	7.0	159.1	.75	138
D	23:7	796.4	785.0	733.0	300.2	14.4	62	800	2213	582	579	6.3	8.6	52.5	62.3	.19	.20	4	.59	.00	.0	7.0	7.0	159.1	.75	138
D	23:7	797.1	785.0	733.0	300.2	12.6	65	800	2209	582	579	6.4	8.6	52.5	62.3	.19	.20	4	.59	.00	.0	7.0	7.0	159.1	.76	138
D	23:8	798.1	785.0	733.0	300.2	13.7	65	700	2209	582	579	6.4	8.6	52.5	62.3	.19	.20	4	.59	.00	.0	7.1	7.0	159.1	.76	138
D	23:24	798.8	802.5	772.0	300.2	.0	68	600	2246	582	605	8.5	8.6	53.1	61.7	.20	.21	5	.59	.00	.0	7.2	7.0	159.1	.83	138
D	23:25	804.0	802.5	772.0	300.2	.0	71	600	2246	587	595	8.5	8.6	53.2	61.6	.20	.21	3	.59	.00	.0	7.2	7.0	159.1	.83	138
D	23:26	806.2	823.6	887.0	298.0	15.2	67	600	2251	587	595	8.3	8.6	53.2	61.8	.20	.20	3	.58	.00	.0	7.0	6.8	180.2	.84	125
D	23:33	808.4	808.3	736.0	121.4	19.7	67	1000	2241	587	585	7.0	8.6	53.7	63.2	.20	.20	4	.99	.00	.0	7.7	6.8	46.3	.95	495
D	23:33	810.2	810.2	736.0	264.7	17.9	58	1200	2255	587	507	7.2	8.6	53.7	63.2	.20	.20	3	.73	.00	.0	7.9	6.8	48.2	.95	477
D	23:34	813.0	812.1	730.0	150.4	15.8	70	700	2251	583	589	7.4	8.6	53.7	63.2	.20	.20	3	.88	.00	.0	8.1	6.8	50.1	.96	459
D	23:34	814.5	814.2	730.0	434.6	12.8	71	800	2246	587	589	7.3	8.6	53.7	63.2	.20	.20	3	.57	.00	.0	8.0	6.8	52.2	.97	441
D	23:35	816.2	815.3	777.0	287.2	14.2	65	1200	2246	587	591	7.4	8.6	53.7	63.2	.20	.20	3	.66	.00	.0	8.1	6.8	53.3	.97	432
D	23:35	818.2	817.7	777.0	301.8	11.8	71	700	2246	591	589	7.1	8.6	53.7	63.3	.20	.20	3	.58	.00	.0	7.8	6.8	55.7	.98	414
D	23:37	821.7	821.2	786.0	603.3	18.9	68	900	2241	597	587	6.9	8.6	53.8	63.6	.20	.20	4	.54	.00	.0	7.6	6.8	59.2	1.01	391
D	23:37	822.6	822.1	786.0	441.8	17.0	66	1100	2241	597	589	6.8	8.6	53.8	63.6	.20	.21	3	.62	.00	.0	7.5	6.8	60.1	1.02	386
D	23:38	824.9	824.4	790.0	107.8	13.7	71	900	2237	587	591	11.5	8.6	53.9	63.6	.20	.21	4	.80	.00	.0	12.1	6.8	62.4	1.03	373
D	23:38	826.3	826.1	790.0	231.3	14.5	70	700	2246	587	591	9.0	8.6	53.9	63.6	.20	.21	4	.60	.00	.0	9.6	6.9	64.1	1.03	363
D	23:40	828.2	827.1	798.0	66.8	16.5	73	800	2246	587	591	8.7	8.6	53.9	63.6	.20	.21	4	.95	.00	.0	9.4	6.9	65.1	1.05	358
D	23:40	830.1	829.0	798.0	178.7	16.7	72	900	2227	591	589	8.7	8.6	54.0	63.4	.20	.21	4	.72	.00	.0	9.4	6.9	67.0	1.06	348
D	23:55	833.0	832.8	806.0	62.2	16.7	62	700	2153	578	579	8.6	8.6	54.5	62.5	.20	.20	4	.69	.00	.0	9.3	6.9	70.8	1.11	332
D	23:58	834.1	833.0	806.0	93.3	17.9	64	700	2153	576	570	8.6	8.6	54.6	63.0	.20	.20	4	.05	.00	.0	9.2	6.9	71.0	1.15	332
D	23:59	836.1	835.0	806.0	34.0	15.6	61	800	2153	584	570	8.6	8.6	54.7	63.5	.20	.20	4	1.08	.00	.0	9.2	6.9	73.0	1.18	326
D	0:0	838.0	837.2	806.0	401.8	19.6	66	700	2158	578	566	8.6	8.6	54.7	63.7	.20	.20	4	.47	.00	.0	9.3	6.9	75.2	1.19	316
D	0:2	841.5	841.2	812.0	720.4	18.2	58	700	2163	572	558	8.6	8.6	54.8	63.8	.20	.20	4	.34	.00	.0	9.2	6.9	79.2	1.22	302
D	0:4	842.1	841.2	816.0	720.4	17.9	64	700	2163	577	562	8.6	8.6	54.9	64.0	.20	.20	4	.34	.00	.0	9.2	6.9	79.2	1.25	302
D	0:4	844.0	843.6	818.0	73.2	20.3	59	900	2163	578	556	8.6	8.6	54.9	64.0	.20	.20	4	.92	.00	.0	9.3	6.9	81.6	1.26	295
D	0:6	846.0	845.6	821.0	99.8	18.6	62	800	2163	577	568	8.6	8.6	54.9	63.9	.20	.20	4	.05	.00	.0	9.2	6.9	83.6	1.28	289
D	0:8	849.1	847.3	828.0	37.6	19.8	64	1000	2158	580	554	8.6	8.6	54.9	63.9	.20	.20	4	1.13	.00	.0	9.2	6.9	85.3	1.32	285
D	0:9	850.0	849.4	828.0	554.3	17.4	68	800	2158	577	554	8.6	8.6	54.9	63.9	.19	.20	4	.43	.00	.0	9.2	6.9	87.4	1.33	278
D	0:11	852.1	851.2	830.0	43.1	22.9	65	1000	2163	577	552	8.6	8.6	55.1	64.0	.20	.20	4	1.07	.00	.0	9.2	6.9	89.2	1.36	274
D	0:12	854.1	853.3	830.0	530.1	22.2	66	900	2158	578	552	8.6	8.6	55.1	64.0	.19	.20	3	.44	.00	8.6	10.6	6.9	91.3	1.38	268
D	0:13	856.4	856.1	830.0	107.9	22.2	64	1000	2158	582	552	8.6	8.6	55.2	64.1	.20	.20	3	.84	.00	.0	9.2	6.9	94.1	1.39	261
D	0:15	858.3	857.1	830.0	34.5	19.3	65	800	2158	578	550	8.6	8.6	55.2	64.2	.20	.20	3	1.16	.00	.0	9.2	6.9	95.1	1.42	259
D	0:28	860.6	859.0	836.0	118.2	2.5	65	500	2190	582	562	8.6	8.6	55.6	63.8	.20	.20	1	.77	.00	.0	9.2	6.9	97.0	1.46	255
D	0:34	862.6	861.1	844.0	45.1	20.3	65	2000	2195	578	548	8.6	8.6	55.8	64.6	.20	.20	1	.63	.00	.0	9.2	6.9	99.1	1.56	251
D	0:35	864.1	863.1	846.0	22.3	20.0	68	1700	2195	578	548	8.6	8.6	55.9	64.8	.20	.20	1	1.24	.00	.0	9.2	6.9	143.0	1.58	249
D	0:36	870.3	863.1	846.0	22.3	17.7	66	1600	2200	582	548	8.6	8.6	55.9	64.8	.20	.20	1	1.24	.00	.0	9.2	6.9	143.0	1.58	249
D	0:37	872.0	871.6	848.0	178.6	20.3	71	700	2181	582	544	8.6	8.6	55.9	64.8	.20	.20	1	.70	.00	.0	9.2	7.0	151.5	1.61	167
D	0:40	874.0	873.1	851.0	30.6	19.8	69	800	2176	577	544	8.6	8.6	56.0	64.7	.20	.20	1	1.17	.00	.0	9.2	7.0	153.1	1.65	166
D	0:42	876.3	875.0	856.0	112.7	18.4	69	800	2181	577	546	8.6	8.6	56.0	64.7	.20	.20	1	.82	.00	.0	9.2	7.0	154.9	1.69	165
D	0:43	878.0	877.2	856.0	60.1	16.0	66	800	2176	578	548	8.6	8.6	56.1	64.8	.20	.20	1	.97	.00	.0	9.2	7.0	157.2	1.70	163
D	0:44	880.0	879.1	858.0	118.5	21.7	66	800	2172	578	548	8.6	8.6	56.1	64.8	.20	.20	3	.81	.00	.0	9.2	7.0	159.1	1.72	162