

* BIT # 24 SMITH F3 BIT DIAMETER : 8.50 inch NOZZ 13/13/13

MUD RHEOLOGICAL PARAMETERS : PV = 20 YP = 10 GEL = 6

TIME	MEASURED	DEPTHS			DRILLING PARAMETERS						MUD PARAMETERS				GAS			OVERPRESSURE SURVEY			ACCUMULATED ON BIT				
		VERTCL	LAGGED	ROP	WOB	RPM	TORG	PRESS	FLOW	PIT	DENSITY	TEMPERATURE	RESISTIVITY	DCS	NGRH	PF	ECD	FRAC	FEET	TIME	COST				
Hr:mn	feet	feet	feet	ft/h	klbs	rpm	ftlb	psi	gpm	bbbls	ppg	degF	ohm	unit	ppg	ppg	ppg	feet	Dhr	\$					
D * 1:17	* 9321.1	9310.9	9289.0	* 40.5	* 27.6	72	3000	1271	329	* 440	* 9.2	9.3	88.4	103.0	.98	.99	* 7	* 1.28	1.97	* 8.8	9.3	16.2	* 280.9	9.30	214
D * 1:20	* 9322.5	9312.4	9290.0	* 26.4	* 29.2	73	3000	1281	329	* 440	* 9.2	9.2	88.5	103.2	.98	.99	* 7	* 1.40	1.97	* 8.8	9.3	16.2	* 282.4	9.36	214
D * 1:21	* 9323.0	9312.9	9290.0	* 74.9	* 33.0	53	2900	1276	329	* 440	* 9.2	9.2	88.6	103.4	.98	1.00	* 7	* 1.11	1.97	* 8.8	9.3	16.2	* 282.9	9.36	214
D * 1:30	* 9324.1	9314.0	9292.0	* 26.3	* 29.0	76	1900	1276	334	* 444	* 9.2	9.2	88.7	103.5	.98	1.01	* 7	* 1.32	1.97	* 8.8	9.3	16.2	* 284.0	9.40	213
D * 1:31	* 9325.5	9315.4	9293.0	* 58.0	* 29.0	76	2200	1276	329	* 442	* 9.2	9.2	88.7	103.0	.98	.99	* 6	* 1.17	1.97	* 8.8	9.3	16.2	* 285.4	9.43	213
D * 1:32	* 9326.0	9315.4	9293.0	* 58.0	* 29.0	77	2300	1276	329	* 440	* 9.2	9.2	88.7	103.4	.98	1.01	* 6	* 1.17	1.97	* 8.8	9.3	16.2	* 285.4	9.44	213
D * 1:33	* 9327.0	9316.9	9294.0	* 81.9	* 27.3	76	2300	1276	329	* 438	* 9.2	9.2	88.7	103.4	.98	.99	* 6	* 1.07	1.97	* 8.8	9.3	16.2	* 286.9	9.45	212
D * 1:34	* 9328.5	9318.4	9294.0	* 93.4	* 31.8	77	2300	1276	329	* 438	* 9.2	9.3	88.6	103.5	.98	1.00	* 6	* 1.06	1.97	* 8.8	9.3	16.2	* 288.4	9.46	211
D * 1:35	* 9329.2	9319.1	9294.0	* 31.4	* 29.1	78	2300	1276	329	* 438	* 9.2	9.2	88.7	103.3	.98	1.00	* 7	* 1.38	1.97	* 8.8	9.3	16.2	* 289.1	9.47	211
D * 1:37	* 9330.1	9319.1	9296.0	* 31.4	* 31.5	76	2300	1285	329	* 436	* 9.2	9.2	88.6	103.4	.98	.99	* 7	* 1.38	1.97	* 8.8	9.3	16.2	* 289.1	9.51	211
D * 1:37	* 9331.2	9321.1	9296.0	* 557.2	* 31.9	77	2400	1281	329	* 436	* 9.2	9.2	88.7	103.2	.98	1.00	* 7	* .53	1.97	* 8.8	9.3	16.2	* 291.1	9.51	210
D * 1:38	* 9332.5	9322.4	9298.0	* 54.8	* 31.6	77	3100	1267	329	* 436	* 9.2	9.2	88.6	103.2	.98	.99	* 7	* 1.22	1.97	* 8.8	9.3	16.2	* 292.4	9.54	209
D * 1:40	* 9333.5	9323.4	9298.0	* 40.1	* 29.6	74	3200	1267	329	* 436	* 9.2	9.2	88.7	103.5	.98	1.00	* 7	* 1.30	1.97	* 8.8	9.3	16.2	* 293.4	9.56	209
D * 1:41	* 9334.1	9324.1	9299.0	* 27.1	* 32.0	77	3200	1271	325	* 434	* 9.2	9.2	88.7	103.9	.98	.99	* 7	* 1.42	1.97	* 8.8	9.3	16.2	* 294.1	9.58	208
D * 1:43	* 9335.9	9325.8	9299.0	* 56.3	* 30.9	76	3200	1271	329	* 432	* 9.2	9.2	88.7	103.9	.98	.98	* 7	* 1.21	1.98	* 8.8	9.3	16.2	* 295.8	9.61	207
D * 1:44	* 9336.2	9326.1	9300.0	* 13.2	* 29.5	77	3100	1271	329	* 434	* 9.2	9.2	88.8	104.0	.98	.98	* 7	* 1.62	1.98	* 8.8	9.3	16.2	* 296.1	9.64	208
D * 1:45	* 9337.0	9326.9	9300.0	* 52.5	* 31.7	74	3200	1281	329	* 434	* 9.2	9.2	88.7	103.8	.98	.99	* 7	* 1.22	1.98	* 8.8	9.3	16.2	* 296.9	9.65	207
D * 1:46	* 9338.2	9326.9	9300.0	* 52.5	* 31.1	76	3200	1262	329	* 432	* 9.2	9.2	88.7	103.8	.98	1.00	* 7	* 1.22	1.98	* 8.8	9.3	16.2	* 296.9	9.65	207
D * 1:48	* 9339.1	9329.1	9302.0	* 27.8	* 30.9	75	3200	1271	329	* 430	* 9.2	9.2	88.7	103.7	.98	1.00	* 7	* 1.41	1.98	* 8.8	9.3	16.2	* 299.1	9.69	206
D * 1:50	* 9340.0	9330.0	9303.0	* 29.8	* 31.4	76	3200	1267	329	* 426	* 9.2	9.2	88.7	103.8	.98	.99	* 7	* 1.38	1.98	* 8.8	9.3	16.2	* 300.0	9.72	206
D * 1:54	* 9341.8	9331.7	9305.0	* 27.5	* 30.1	77	3200	1271	325	* 426	* 9.2	9.2	88.8	104.3	.98	.98	* 7	* 1.40	1.98	* 8.8	9.3	16.2	* 301.7	9.78	206
D * 1:55	* 9342.6	9332.5	9306.0	* 35.2	* 28.8	76	3200	1267	326	* 426	* 9.2	9.2	88.8	103.8	.99	.98	* 7	* 1.32	1.98	* 8.8	9.3	16.2	* 302.5	9.81	205
D * 1:57	* 9343.5	9333.4	9306.0	* 28.3	* 29.8	78	3200	1262	329	* 424	* 9.2	9.2	88.8	103.6	.98	.99	* 7	* 1.39	1.98	* 8.8	9.3	16.2	* 303.4	9.84	205
D * 2: 0	* 9344.1	9333.4	9307.0	* 28.3	* 28.4	75	3100	1262	328	* 420	* 9.2	9.2	88.8	104.1	.99	1.00	* 7	* 1.39	1.98	* 8.8	9.3	16.2	* 303.4	9.89	205
D * 2: 3	* 9346.0	9334.0	9310.0	* 11.3	* 31.2	76	3200	1262	329	* 418	* 9.2	9.2	88.9	104.3	.99	1.00	* 7	* 1.65	1.98	* 8.8	9.3	16.2	* 304.0	9.95	205
D * 2: 4	* 9346.1	9336.0	9310.0	* 35.9	* 32.9	77	3200	1257	325	* 418	* 9.2	9.3	89.0	104.3	.99	1.00	* 7	* 1.33	1.98	* 8.8	9.3	16.2	* 306.0	9.95	205
D * 2: 6	* 9347.5	9337.4	9311.0	* 29.9	* 29.3	76	3200	1262	325	* 416	* 9.3	9.3	89.0	104.3	.98	.99	* 7	* 1.37	1.98	* 8.8	9.3	16.2	* 307.4	10.00	204
D * 2: 8	* 9348.1	9337.4	9311.0	* 29.9	* 29.9	74	3300	1262	325	* 414	* 9.2	9.3	89.0	104.4	.99	1.00	* 7	* 1.39	1.98	* 8.8	9.3	16.2	* 307.4	10.02	204
D * 2: 9	* 9349.1	9339.0	9313.0	* 40.8	* 31.5	75	3200	1262	325	* 414	* 9.2	9.2	89.0	104.4	.99	1.00	* 7	* 1.28	1.98	* 8.8	9.3	16.2	* 309.0	10.05	204
D * 2:12	* 9350.5	9340.4	9314.0	* 38.3	* 29.8	74	3100	1262	329	* 412	* 9.2	9.3	89.0	104.6	.99	.99	* 7	* 1.37	1.98	* 8.8	9.3	16.2	* 310.4	10.09	203
D * 2:16	* 9351.4	9341.3	9315.0	* 12.9	* 30.4	76	3300	1257	326	* 412	* 9.2	9.2	89.0	104.4	.99	.99	* 7	* 1.62	1.98	* 8.8	9.3	16.2	* 311.3	10.16	204
D * 2:18	* 9352.1	9342.0	9315.0	* 24.0	* 30.1	76	3300	1262	329	* 412	* 9.2	9.2	89.0	104.5	.99	.99	* 7	* 1.44	1.98	* 8.8	9.3	16.2	* 312.0	10.19	203
D * 2:22	* 9353.0	9342.9	9316.0	* 14.2	* 28.4	74	3300	1257	329	* 410	* 9.2	9.2	89.2	104.7	.98	.99	* 7	* 1.59	1.98	* 8.8	9.3	16.2	* 312.9	10.25	204
D * 2:23	* 9354.5	9344.4	9317.0	* 62.5	* 27.7	76	3200	1257	329	* 408	* 9.2	9.3	89.1	105.0	.98	.99	* 7	* 1.14	1.98	* 8.8	9.3	16.2	* 314.4	10.28	203
D * 2:24	* 9355.0	9344.9	9317.0	* 38.2	* 29.2	77	3300	1257	329	* 408	* 9.2	9.3	89.2	105.1	.99	.98	* 7	* 1.30	1.98	* 8.8	9.3	16.2	* 314.9	10.29	203
D * 2:26	* 9356.0	9346.0	9318.0	* 27.4	* 30.2	76	3200	1252	329	* 408	* 9.2	9.2	89.1	105.1	.99	.99	* 7	* 1.38	1.98	* 8.8	9.3	16.2	* 316.0	10.33	202
D * 2:28	* 9357.2	9347.2	9319.0	* 33.8	* 26.5	77	3300	1262	328	* 408	* 9.3	9.2	89.2	104.3	.99	1.00	* 7	* 1.33	1.98	* 8.8	9.3	16.2	* 317.2	10.36	202
D * 2:30	* 9358.0	9347.9	9319.0	* 31.2	* 28.4	78	3300	1262	325	* 406	* 9.2	9.3	89.3	104.5	.99	1.00	* 7	* 1.35	1.98	* 8.8	9.3	16.2	* 317.9	10.37	202
D * 2:32	* 9359.1	9349.0	9319.0	* 29.4	* 27.9	77	3200	1252	325	* 404	* 9.2	9.3	89.3	104.6	.99	1.00	* 7	* 1.35	1.98	* 8.8	9.3	16.2	* 319.0	10.43	202
D * 2:34	* 9360.5	9349.0	9320.0	* 29.4	* 27.9	76	3200	1262	329	* 402	* 9.3	9.3	89.4	104.7	.98	1.00	* 7	* 1.35	1.98	* 8.8	9.3	16.2	* 319.0	10.46	202
D * 2:42	* 9361.0	9350.9	9322.0	* 28.8	* 31.9	75	1800	1360	338	* 422	* 9.2	9.3	85.9	104.4	.99	.99	* 7	* 1.39	1.98	* 8.8	9.3	16.2	* 320.9	10.48	201
D * 2:45	* 9362.4	9350.9	9322.0	* 28.8	* 30.6	78	2300	1271	329	* 430	* 9.2	9.2	84.6	103.9	.99	1.01	* 7	* 1.39	1.98	* 8.8	9.3	16.2	* 320.9	10.52	201
D * 2:46	* 9363.1	9353.0	9323.0	* 34.4	* 32.3	77	2400	1276	329	* 430	* 9.2	9.2	86.2	104.4	.99	1.03	* 7	* 1.34	1.98	* 8.8	9.3	16.2	* 323.0	10.54	200
D * 2:48	* 9364.0	9353.9	9325.0	* 23.1	* 31.1	77	2800	1281	329	* 432	* 9.2	9.2	84.4	103.2	.99	1.01	* 6	* 1.47	1.98	* 8.8	9.3	16.2	* 323.9	10.58	200
D * 2:51	* 9365.4	9353.9	9325.0	* 23.1	* 29.8	78	3200	1276	328	* 434	* 9.2	9.4	88.3	103.1	.99	1.01	* 6	* 1.47	1.98	* 8.8	9.3	16.2	* 323.9	10.62	200
D * 2:52	* 9366.0	9355.9	9327.0	* 33.5	* 28.9	77	3100	1276	325	* 434	* 9.2	9.2	78.7	103.8	.99	1.01	* 6	* 1.34	1.98	* 8.8	9.3	16.2	* 325.9	10.64	200
D * 2:55	* 9367.2	9357.1	9330.0	* 26.9	* 29.7	77	3300	1281	325	* 438	* 9.2	9.2	83.8	104.3	.99	.99	* 6	* 1.40	1.98	* 8.8	9.3	16.2	* 327.1	10.69	200
D * 2:56	* 9368.0	9357.9	9330.0	* 28.2	* 29.2	75	3300	1285	325	* 438	* 9.2	9.3	83.5	103.9	.99	1.00	* 7	* 1.39	1.98	* 8.8					