* BIT # 21   SMITH F2   BIT DIAMETER : 12.25 inch   NOZZ 16/16/16

MUD RHEOLOGICAL PARAMETERS : PV = 13   YP = 15   GEL = 4

D	TIME Hr:mn	MEASURED feet	VERTCL feet	LAGGED feet	ROP ft/h	WOB klbs	RPM rpm	TORQ ftlb	PRESS psi	FLOW IN gpm	PIT VOL bbls	DENS IN ppg	DENS OUT ppg	TEMP IN degF	TEMP OUT degF	RES IN ohmm	RES OUT ohmm	DCS unit	NORM	PF ppg	ECD ppg	FRAC ppg	FEET feet	TIME Dhr	COST $
D	15:30	8277.0	8274.0	8225.0	32.7	32.1	92	3300	1909	534	574	9.2	9.2	88.9	103.4										
D	15:32	8278.2	8275.2	8227.0	30.9	33.2	89	3300	1905	534	568	9.3	9.3	89.0	103.4	.84	.84	7	1.31	1.49	9.9	9.3	16.1	384.0	9.85	173
D	15:33	8279.1	8275.2	8227.0	30.9	34.9	92	3200	1905	534	568	9.2	9.2	89.0	104.0	.84	.83	7	1.33	1.49	9.8	9.3	16.0	385.2	9.89	173
D	15:35	8280.3	8277.3	8229.0	40.9	35.1	92	3400	1905	530	568	9.2	9.2	89.0	104.0	.84	.83	7	1.33	1.49	9.8	9.3	16.1	385.2	9.91	173
D	15:36	8281.0	8278.0	8229.0	40.3	35.1	93	3400	1905	533	564	9.2	9.2	89.0	103.7	.84	.83	7	1.27	1.49	10.3	9.3	16.1	387.3	9.94	172
D	15:38	8282.5	8279.5	8231.0	54.8	35.2	93	3700	1905	534	564	9.3	9.3	89.1	103.2	.84	.84	7	1.25	1.49	10.4	9.3	16.2	388.0	9.96	172
D	15:39	8283.2	8279.5	8231.0	54.8	31.7	92	3600	1905	530	562	9.2	9.3	89.1	103.4	.84	.84	7	1.17	1.49	10.2	9.3	16.1	389.5	9.99	172
D	15:41	8284.1	8281.1	8233.0	26.1	34.9	91	3800	1905	529	564	9.2	9.3	89.1	103.4	.84	.84	7	1.17	1.49	10.2	9.3	16.1	389.5	10.04	172
D	15:42	8285.2	8281.1	8233.0	26.1	34.3	95	3700	1909	534	562	9.2	9.3	89.2	103.4	.84	.83	7	1.30	1.49	9.5	9.3	16.0	391.1	10.04	171
D	15:43	8286.2	8283.2	8233.0	85.1	35.0	93	3400	1909	534	562	9.2	9.3	89.2	103.4	.84	.83	7	1.30	1.49	9.5	9.3	16.0	391.1	10.06	171
D	15:44	8287.4	8283.2	8236.0	85.1	34.6	90	3200	1908	530	560	9.2	9.3	89.2	103.5	.84	.84	7	1.07	1.49	10.2	9.3	16.1	393.2	10.06	171
D	15:45	8288.3	8285.3	8236.0	81.2	38.1	91	3400	1909	530	560	9.3	9.3	89.3	103.4	.84	.83	7	1.07	1.49	10.2	9.3	16.1	393.2	10.09	171
D	15:46	8289.3	8285.3	8236.0	81.2	37.4	92	3400	1905	530	560	9.2	9.3	89.3	103.5	.84	.83	7	1.07	1.49	10.2	9.3	16.1	395.3	10.10	170
D	15:47	8290.2	8287.2	8236.0	31.7	37.1	89	3500	1909	530	560	9.2	9.3	89.4	103.4	.84	.83	7	1.07	1.49	10.2	9.3	16.0	395.3	10.11	170
D	15:49	8291.6	8288.6	8236.0	53.9	33.4	92	3400	1909	530	558	9.2	9.3	89.4	103.5	.84	.83	7	1.34	1.49	9.7	9.3	16.0	397.2	10.14	170
D	15:50	8292.2	8289.2	8237.0	44.1	34.5	91	3500	1914	534	558	9.2	9.2	89.4	103.3	.84	.84	7	1.18	1.49	10.2	9.3	16.1	398.6	10.16	169
D	15:52	8293.0	8290.0	8237.0	39.7	34.5	91	3400	1909	534	558	9.2	9.3	89.5	103.1	.84	.84	7	1.23	1.49	10.5	9.3	16.2	399.2	10.18	169
D	15:53	8294.6	8290.0	8239.0	39.7	35.9	91	3400	1905	530	554	9.2	9.3	89.5	103.0	.84	.84	7	1.26	1.49	10.3	9.3	16.2	400.0	10.22	169
D	15:55	8295.4	8292.4	8239.0	19.6	36.2	91	1100	1895	534	556	9.2	9.3	89.5	102.8	.84	.84	7	1.26	1.49	10.3	9.3	16.2	400.0	10.23	169
D	15:55	8296.9	8293.9	8239.0	838.6	.0	0	-200	1876	534	554	9.2	9.3	89.6	103.0	.84	.84	7	1.47	1.49	10.2	9.3	16.1	402.4	10.27	169
D	17:37	8297.0	8293.9	8253.0	838.6	.0	92	3200	1937	539	506	9.2	9.3	87.3	79.6	.84	.91	7	-.17	1.50	10.2	9.3	16.1	403.9	10.27	168
D	17:39	8298.1	8295.1	8253.0	22.9	31.2	90	2700	1947	539	512	9.2	9.3	87.1	03.8	.84	.86	7	-.17	1.50	9.8	9.3	16.0	403.9	10.28	168
D	17:40	8299.0	8296.0	8253.0	63.0	29.6	90	2700	1951	539	512	9.2	9.3	86.9	86.2	.84	.84	7	1.34	1.50	9.8	9.3	16.0	405.1	10.30	168
D	17:41	8300.2	8297.1	8255.0	48.6	31.6	91	3000	1780	541	514	9.2	9.4	86.5	90.6	.85	.80	7	1.09	1.50	10.2	9.3	16.0	406.0	10.32	168
D	17:43	8301.1	8298.1	8255.0	38.1	34.5	91	3300	2050	540	508	9.2	9.3	86.1	94.0	.85	.78	7	1.18	1.50	10.2	9.3	16.1	406.0	10.34	167
D	17:44	8302.1	8298.1	8256.0	38.1	34.2	89	3700	1974	540	508	9.2	9.3	86.1	94.0	.85	.78	7	1.25	1.50	10.2	9.3	16.2	408.1	10.37	167
D	17:45	8303.0	8299.1	8256.0	54.6	32.4	90	2700	1989	542	486	9.2	9.4	85.8	96.6	.85	.77	7	1.25	1.50	10.4	9.3	16.1	408.1	10.38	167
D	17:47	8304.1	8301.1	8258.0	24.8	33.7	89	2700	1989	543	408	9.3	9.3	85.5	97.9	.85	.77	7	1.16	1.50	10.2	9.3	16.1	409.1	10.40	167
D	17:48	8305.0	8303.3	8261.0	130.8	34.6	89	2800	1989	539	488	9.2	9.2	85.0	99.6	.85	.79	7	1.37	1.50	9.5	9.3	16.1	411.1	10.44	167
D	17:49	8306.3	8303.3	8261.0	56.0	31.4	89	3500	1989	543	470	9.2	9.2	85.0	100.0	.85	.78	7	.92	1.50	10.2	9.3	16.1	412.0	10.45	166
D	17:51	8307.5	8303.3	8261.0	56.0	30.6	92	3400	1989	543	408	9.2	9.3	84.9	100.8	.85	.79	7	1.15	1.50	10.2	9.3	16.1	413.3	10.48	166
D	17:52	8308.7	8304.5	8262.0	48.2	34.7	94	3600	1984	549	470	9.2	9.4	84.9	101.1	.85	.80	7	1.15	1.50	10.2	9.3	16.1	413.3	10.50	166
D	17:54	8309.0	8306.0	8262.0	14.1	34.5	88	3500	1989	543	408	9.3	9.3	84.8	101.7	.85	.81	7	1.23	1.50	10.6	9.3	16.2	414.5	10.52	166
D	17:54	8310.1	8307.1	8262.0	121.6	30.9	88	3400	1989	543	408	9.2	9.3	84.7	102.1	.85	.81	7	1.54	1.50	10.2	9.3	16.1	416.0	10.55	166
D	17:55	8311.2	8307.1	8264.0	121.6	31.4	88	3500	1990	547	408	9.2	9.3	84.8	101.8	.85	.81	7	.95	1.50	10.2	9.3	16.1	417.1	10.56	165
D	17:57	8312.4	8309.3	8264.0	44.7	32.7	89	3100	1994	543	408	9.2	9.3	84.8	101.9	.84	.81	7	.95	1.50	10.2	9.3	16.1	417.1	10.57	165
D	17:59	8313.2	8310.2	8266.0	26.8	34.2	88	3300	1994	543	470	9.3	9.3	84.9	101.7	.84	.82	7	1.22	1.50	10.6	9.3	16.1	417.1	10.57	165
D	18:0	8314.3	8311.3	8266.0	40.3	35.5	89	3200	1998	539	408	9.3	9.3	84.9	101.2	.84	.83	7	1.22	1.50	10.6	9.3	16.1	419.0	10.60	165
D	18:2	8315.3	8312.3	8267.0	40.2	36.5	91	3400	1994	543	406	9.2	9.4	85.0	101.6	.84	.83	7	1.36	1.50	9.6	9.3	16.0	420.2	10.63	165
D	18:3	8316.1	8313.1	8267.0	49.2	34.8	88	3300	1994	543	404	9.3	9.3	85.2	101.7	.84	.83	7	1.25	1.50	10.4	9.3	16.2	421.3	10.66	164
D	18:5	8317.5	8314.5	8269.0	32.8	38.6	91	3400	1998	539	402	9.3	9.4	85.4	102.1	.84	.83	7	1.26	1.50	10.4	9.3	16.2	422.3	10.68	164
D	18:7	8318.3	8315.3	8269.0	43.8	36.1	88	3500	2003	539	402	9.3	9.4	85.4	102.1	.84	.83	7	1.19	1.50	10.2	9.3	16.1	423.1	10.70	164
D	18:8	8319.3	8316.3	8269.0	45.5	35.8	88	3500	1998	543	402	9.2	9.3	85.5	101.7	.84	.83	7	1.31	1.50	10.0	9.3	16.1	424.5	10.74	164
D	18:9	8320.6	8317.6	8269.0	57.9	32.1	88	3400	1998	543	402	9.3	9.4	85.5	101.7	.84	.83	7	1.25	1.50	10.4	9.3	16.2	425.3	10.76	164
D	18:10	8321.4	8317.6	8269.0	57.9	36.1	88	3300	1994	539	400	9.2	9.3	85.6	102.0	.84	.84	7	1.22	1.50	10.6	9.4	16.2	426.3	10.78	164
D	18:11	8322.1	8319.1	8269.0	56.7	35.3	91	3300	2003	543	478	9.3	9.4	85.6	101.7	.84	.84	7	1.14	1.50	10.2	9.3	16.2	427.6	10.81	163
D	18:12	8323.1	8320.1	8269.0	45.0	33.0	91	3200	1998	543	478	9.2	9.3	85.8	101.7	.84	.84	7	1.14	1.50	10.2	9.3	16.2	427.6	10.82	163
D	18:14	8324.0	8321.0	8270.0	26.6	34.9	91	3500	2003	540	476	9.3	9.4	85.9	101.6	.84	.84	7	1.17	1.50	10.2	9.3	16.2	429.1	10.84	163
D	18:17	8325.3	8322.3	8272.0	31.5	33.3	91	3200	1998	543	472	9.2	9.3	86.1	101.5	.84	.84	7	1.22	1.50	10.6	9.3	16.2	430.1	10.86	163
D							91	3200	1998	543	472	9.3	9.4	86.2	101.4	.84	.85	7	1.32	1.50	9.9	9.3	16.1	432.3	10.93	163