* BIT # 19   SMITH F2   BIT DIAMETER : 12.25 inch   NOZZ 16/16/16   MUD RHEOLOGICAL PARAMETERS : PV = 13 YP = 14 GEL = 5 *

TIME	MEASURED	VERTCL	LAGGED	ROP	WOB	RPM	TORQ	PRESS	FLOW IN	PIT VOL	DENSITY IN	DENSITY OUT	TEMP IN	TEMP OUT	RESIST IN	RESIST OUT	GAS	DCS	NORM	PF	ECD	FRAC	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	DHr	$
D 11:21	7153.3	7151.8	7124.0	31.3	18.9	85	2200	1745	565	305	9.2	9.3	79.2	93.6	.71	.69	7	1.13	1.41	10.7	9.3	15.9	872.8	30.57	163
D 11:23	7154.2	7152.9	7126.0	35.3	31.3	58	1980	1727	560	307	9.2	9.3	79.2	93.9	.70	.70	7	1.10	1.41	9.7	9.3	15.6	873.9	30.60	162
D 11:36	7155.2	7152.9	7129.0	35.3	24.1	86	2600	1822	579	297	9.2	9.3	79.4	93.4	.71	.70	7	1.10	1.41	9.7	9.3	15.6	873.9	30.72	162
D 11:38	7156.3	7153.9	7129.0	7.4	22.1	87	2500	1813	570	291	9.2	9.3	79.4	93.7	.71	.70	7	1.56	1.41	9.7	9.3	15.6	874.9	30.75	163
D 11:39	7157.2	7155.0	7129.0	35.6	20.9	86	2500	1808	578	293	9.2	9.3	79.5	93.0	.70	.70	7	1.13	1.41	10.6	9.3	15.9	876.0	30.77	163
D 11:41	7158.2	7156.9	7130.0	37.1	25.0	86	2600	1813	570	295	9.2	9.3	79.5	93.4	.70	.70	7	1.14	1.41	10.6	9.3	15.9	877.9	30.80	163
D 11:43	7159.4	7158.0	7131.0	40.9	23.2	87	2600	1808	579	293	9.2	9.3	79.6	93.3	.70	.70	7	1.09	1.41	10.6	9.3	15.9	877.9	30.83	162
D 11:44	7164.8	7158.0	7131.0	40.9	.0	86	2800	1808	570	291	9.2	9.3	79.6	93.4	.70	.70	7	1.09	1.41	9.7	9.3	15.6	879.0	30.85	162
D 11:49	7165.0	7163.4	7134.0	185.9	24.6	88	2500	1813	570	289	9.2	9.3	79.7	93.6	.70	.70	7	.71	1.41	9.7	9.3	15.6	884.4	30.92	162
D 11:50	7166.2	7163.7	7134.0	3.5	22.2	86	2400	1813	575	289	9.2	9.3	79.7	93.3	.71	.70	7	1.69	1.41	9.7	9.3	15.6	884.7	30.93	162
D 11:51	7167.1	7165.7	7134.0	62.5	28.6	86	2800	1813	579	287	9.2	9.3	79.7	93.2	.70	.70	7	1.00	1.41	9.7	9.3	15.6	886.7	30.95	162
D 11:53	7168.3	7166.9	7135.0	37.8	23.7	86	2400	1817	575	289	9.2	9.3	79.7	93.4	.70	.70	7	1.15	1.41	10.6	9.3	15.9	887.9	30.98	161
D 11:54	7169.8	7168.5	7135.0	54.1	27.0	89	2600	1813	577	285	9.2	9.3	79.8	93.4	.70	.70	7	1.06	1.41	9.7	9.3	15.6	889.5	31.01	161
D 11:56	7170.5	7169.2	7135.0	22.2	28.0	91	2700	1813	570	287	9.2	9.3	79.7	93.2	.71	.70	7	1.27	1.41	9.7	9.3	15.7	890.2	31.04	161
D 12: 0	7171.0	7169.7	7135.0	7.2	30.1	86	2300	1813	571	283	9.2	9.3	79.7	93.5	.71	.70	7	1.56	1.41	9.7	9.3	15.6	890.7	31.11	161
D 12: 9	7172.0	7170.7	7140.0	7.3	36.6	89	2300	1813	575	283	9.2	9.4	79.8	93.5	.70	.70	7	1.63	1.41	9.7	9.3	15.6	891.7	31.24	162
D 12:18	7173.2	7171.7	7145.0	7.9	26.7	87	2500	1813	570	275	9.2	9.3	79.9	93.4	.70	.70	7	1.65	1.41	9.7	9.3	15.6	892.9	31.40	162
D 12:20	7174.4	7173.1	7145.0	40.8	26.8	86	2500	1813	570	271	9.2	9.3	79.8	93.5	.71	.70	7	1.17	1.41	10.4	9.3	15.8	894.1	31.43	162
D 12:20	7175.2	7173.9	7146.0	55.5	26.2	88	2600	1813	575	273	9.2	9.3	79.9	93.6	.71	.70	7	1.08	1.41	9.7	9.3	15.6	894.9	31.44	162
D 12:22	7176.1	7174.8	7146.0	52.0	27.8	86	2500	1813	574	277	9.2	9.3	79.9	93.4	.71	.70	7	1.10	1.41	9.7	9.3	15.6	895.8	31.46	162
D 12:23	7177.3	7174.8	7146.0	52.0	27.0	86	2600	1817	575	277	9.2	9.3	80.0	93.6	.71	.70	7	1.10	1.41	9.7	9.3	15.6	895.8	31.49	162
D 12:24	7178.0	7176.7	7146.0	82.3	38.0	88	2800	1808	570	277	9.2	9.4	79.9	93.7	.70	.70	7	.97	1.41	9.7	9.3	15.6	897.7	31.50	162
D 12:28	7179.7	7178.3	7147.0	25.5	26.4	88	2600	1817	574	273	9.2	9.3	80.0	94.1	.71	.70	7	1.23	1.41	9.7	9.3	15.7	899.3	31.56	162
D 12:28	7180.1	7178.8	7149.0	117.9	30.9	87	2500	1808	575	273	9.2	9.3	80.0	93.9	.71	.70	7	.81	1.41	9.7	9.3	15.6	899.8	31.57	162
D 12:31	7181.2	7178.8	7150.0	117.9	22.8	87	2700	1808	579	275	9.2	9.3	80.1	94.5	.70	.70	7	.81	1.41	9.7	9.3	15.6	899.8	31.61	162
D 12:34	7182.1	7179.8	7152.0	24.4	22.6	86	2600	1813	578	279	9.2	9.3	79.3	94.3	.71	.70	7	1.21	1.41	10.2	9.3	15.8	900.8	31.66	162
D 12:41	7183.0	7180.8	7153.0	20.0	32.9	84	2600	1813	575	311	9.2	9.3	77.9	94.0	.71	.71	7	1.30	1.41	9.4	9.3	15.6	901.8	31.68	162
D 12:43	7184.3	7183.0	7154.0	61.5	29.8	87	2500	1817	570	309	9.2	9.3	77.7	94.4	.71	.70	7	1.06	1.41	9.7	9.2	15.6	904.0	31.71	162
D 12:45	7185.2	7183.0	7154.0	61.5	33.4	86	2700	1813	574	307	9.2	9.3	77.5	94.0	.71	.70	7	1.06	1.41	9.7	9.2	15.6	904.0	31.74	162
D 12:46	7186.2	7184.0	7154.0	60.8	22.9	83	2500	1813	575	307	9.2	9.3	77.4	93.7	.71	.71	7	1.02	1.41	9.7	9.3	15.6	905.9	31.76	161
D 12:48	7187.6	7186.3	7154.0	43.4	24.1	84	2600	1813	575	309	9.2	9.3	77.2	93.8	.71	.70	7	1.08	1.41	9.7	9.3	15.6	907.3	31.79	161
D 12:49	7188.2	7186.7	7154.0	17.9	30.8	86	2700	1813	575	313	9.2	9.3	77.1	93.8	.71	.70	7	1.33	1.41	9.7	9.3	15.6	907.7	31.81	161
D 12:50	7189.3	7188.0	7154.0	72.3	24.9	85	2500	1817	568	315	9.2	9.3	77.1	93.7	.71	.70	7	.97	1.41	9.7	9.2	15.6	908.0	31.83	161
D 12:52	7190.1	7188.8	7156.0	21.0	27.5	85	2300	1813	575	315	9.2	9.3	76.9	93.4	.71	.70	7	1.30	1.41	9.4	9.2	15.6	909.8	31.86	161
D 12:54	7191.2	7189.8	7158.0	32.8	26.6	85	2600	1817	566	321	9.2	9.3	76.8	94.3	.71	.70	7	1.18	1.41	10.4	9.3	15.8	909.8	31.86	161
D 12:56	7192.5	7189.8	7158.0	32.8	20.4	86	2500	1822	568	321	9.2	9.3	76.8	94.0	.71	.70	7	1.18	1.41	10.4	9.2	15.8	910.8	31.93	161
D 12:56	7193.0	7191.2	7158.0	40.9	24.9	84	2600	1822	570	323	9.2	9.4	76.7	93.9	.71	.70	7	1.09	1.41	9.7	9.2	15.6	912.2	31.93	161
D 12:58	7194.3	7193.0	7160.0	72.8	27.8	85	2500	1813	570	327	9.2	9.3	76.7	93.8	.71	.70	7	.96	1.41	9.7	9.2	15.6	914.0	31.95	161
D 12:59	7195.0	7193.0	7160.0	72.8	25.2	85	2500	1817	574	325	9.2	9.4	76.6	93.8	.71	.71	7	.96	1.41	9.7	9.2	15.6	914.0	31.97	161
D 12:59	7196.0	7194.7	7160.0	79.2	24.3	86	2500	1822	575	323	9.2	9.3	76.6	93.0	.71	.71	7	.94	1.41	9.7	9.2	15.6	915.7	31.97	161
D 13: 1	7197.1	7195.7	7164.0	24.6	25.7	85	2600	1817	575	428	9.2	9.3	76.3	93.2	.71	.71	7	1.21	1.41	10.1	9.3	15.8	916.7	32.01	160
D 13: 2	7198.2	7196.8	7164.0	299.4	27.4	85	2500	1822	575	442	9.2	9.3	76.3	93.2	.71	.71	7	.61	1.41	9.7	9.3	15.6	917.8	32.02	160
D 13: 3	7199.2	7196.8	7164.0	299.4	22.0	85	2500	1817	574	470	9.2	9.3	76.1	93.5	.71	.70	7	.61	1.41	9.7	9.2	15.6	917.8	32.04	160
D 13: 4	7200.0	7197.9	7167.0	39.2	29.2	86	2600	1813	575	496	9.2	9.3	75.8	93.5	.71	.70	7	1.13	1.41	10.7	9.3	15.9	918.9	32.06	160
D 13: 6	7201.0	7199.7	7167.0	38.3	24.9	87	2400	1822	575	508	9.2	9.3	75.7	93.4	.71	.70	7	1.16	1.41	10.5	9.3	15.9	920.7	32.08	160
D 13: 6	7202.0	7199.7	7167.0	38.3	22.9	85	2700	1817	570	510	9.2	9.3	75.6	93.3	.71	.70	7	1.16	1.41	10.5	9.3	15.9	920.7	32.09	160
D 13: 7	7203.3	7202.0	7168.0	90.7	26.6	85	2400	1822	575	514	9.2	9.3	75.3	93.1	.71	.70	7	.90	1.41	9.7	9.2	15.7	923.0	32.11	160
D 13: 9	7204.6	7203.3	7168.0	45.4	30.0	84	2700	1822	570	522	9.2	9.3	75.2	93.5	.71	.71	7	1.10	1.41	9.7	9.2	15.7	924.3	32.14	160
D 13:10	7205.2	7203.3	7170.0	45.4	27.2	86	2600	1822	575	524	9.2	9.3	75.2	92.8	.71	.70	7	1.10	1.41	9.7	9.2	15.7	924.3	32.15	160