

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

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

* TIME *	* MEASURED *	* DEPTHS *		* ROP * WOB *		* DRILLING PARAMETERS *			* PIT * DENSITY *		* MUD PARAMETERS *		* GAS *		* OVERPRESSURE SURVEY *				* ACCUMULATED ON BIT *						
		VERTCL	LAGGED	ROP	WOB	RPM	TORQ	PRESS	FLOW IN	PIT VOL	DENSITY IN	TEMPERATURE IN	TEMPERATURE OUT	RESISTIVITY IN	RESISTIVITY OUT	GAS	DCS	NORM	PF	ECD	FRAC	FEET	TIME	COST	
* Hr:mn *	* feet *	* feet *	* feet *	* ft/h *	* klbs *	* rpm *	* ftlb *	* psi *	* gpm *	* bbls *	* ppg *	* degF *	* ohm *	* unit *	* *	* ppg *	* ppg *	* ppg *	* *	* *	* *	* feet *	* Dhr *	* \$ *	
D * 19:43	* 8375.3	8372.3	8319.0	* 67.0	* 31.7	92	3500	2017	547	* 474	* 9.2	9.3	83.2	102.9	.88	.84	* 7	* 1.12	1.50	* 10.2	9.3	16.2	* 482.3	12.17	155
D * 19:44	* 8376.3	8373.2	8322.0	* 43.3	* 36.2	95	3800	2017	543	* 478	* 9.2	9.4	83.0	102.9	.88	.84	* 7	* 1.26	1.50	* 10.3	9.3	16.2	* 483.2	12.19	155
D * 19:46	* 8377.4	8374.4	8322.0	* 52.8	* 38.7	92	3700	2012	547	* 482	* 9.2	9.3	83.0	102.9	.88	.84	* 7	* 1.21	1.50	* 10.0	9.3	16.3	* 484.4	12.22	155
D * 19:47	* 8378.0	8375.0	8323.0	* 35.9	* 37.4	92	3700	2012	548	* 484	* 9.2	9.3	82.8	102.6	.88	.84	* 7	* 1.32	1.50	* 9.9	9.3	16.1	* 485.0	12.23	155
D * 19:49	* 8379.6	8375.0	8323.0	* 35.9	* 34.5	93	3700	2012	549	* 488	* 9.2	9.3	82.6	102.5	.87	.84	* 7	* 1.32	1.50	* 9.9	9.3	16.1	* 485.0	12.27	155
D * 19:51	* 8380.0	8376.6	8325.0	* 35.0	* 35.9	96	2600	2008	548	* 472	* 9.2	9.3	82.4	102.5	.88	.84	* 7	* 1.31	1.50	* 10.0	9.3	16.1	* 486.6	12.30	155
D * 19:52	* 8381.6	8377.3	8325.0	* 29.8	* 35.5	95	3800	2008	543	* 474	* 9.2	9.3	82.4	102.3	.87	.84	* 7	* 1.35	1.50	* 9.7	9.3	16.0	* 487.3	12.32	154
D * 19:53	* 8382.0	8379.0	8326.0	* 39.6	* 35.0	96	3800	2012	547	* 476	* 9.2	9.4	82.4	102.2	.88	.84	* 7	* 1.28	1.50	* 10.2	9.3	16.2	* 489.0	12.33	154
D * 19:55	* 8383.1	8380.1	8326.0	* 31.1	* 35.5	93	3800	2003	543	* 478	* 9.2	9.3	82.1	102.5	.88	.84	* 7	* 1.35	1.50	* 9.7	9.3	16.0	* 490.1	12.37	154
D * 19:55	* 8384.1	8381.1	8326.0	* 282.9	* 33.7	97	3700	2003	543	* 478	* 9.2	9.3	82.1	102.6	.88	.83	* 7	* .73	1.50	* 10.2	9.3	16.2	* 491.1	12.37	154
D * 19:58	* 8385.1	8381.1	8329.0	* 282.9	* 37.2	96	3300	1994	543	* 506	* 9.2	9.3	82.0	102.3	.88	.84	* 7	* .73	1.50	* 10.2	9.3	16.2	* 491.1	12.42	154
D * 19:58	* 8386.2	8383.2	8329.0	* 188.6	* 34.5	93	2700	1998	539	* 508	* 9.2	9.4	82.0	102.1	.88	.85	* 7	* .86	1.50	* 10.2	9.3	16.2	* 493.2	12.43	154
D * 19:59	* 8387.0	8384.0	8330.0	* 59.0	* 36.6	93	2800	1994	547	* 508	* 9.2	9.3	82.0	101.8	.88	.85	* 7	* 1.16	1.50	* 10.2	9.3	16.2	* 494.0	12.44	153
D * 20: 1	* 8388.5	8385.5	8330.0	* 40.5	* 37.4	96	2900	1994	543	* 514	* 9.2	9.4	81.7	101.7	.88	.84	* 7	* 1.28	1.50	* 10.2	9.3	16.2	* 495.5	12.47	153
D * 20: 2	* 8389.2	8386.2	8333.0	* 43.1	* 35.9	93	2800	1984	543	* 516	* 9.2	9.3	81.9	101.7	.87	.84	* 7	* 1.26	1.50	* 10.4	9.3	16.2	* 496.2	12.49	153
D * 20: 4	* 8390.3	8387.3	8333.0	* 52.6	* 37.5	92	2800	1994	545	* 522	* 9.2	9.4	81.7	101.5	.88	.85	* 7	* 1.20	1.50	* 10.2	9.3	16.2	* 497.3	12.51	153
D * 20: 5	* 8391.1	8388.1	8335.0	* 43.0	* 36.5	93	2800	1989	548	* 526	* 9.2	9.3	81.7	101.3	.87	.85	* 7	* 1.27	1.50	* 10.3	9.3	16.2	* 498.1	12.53	153
D * 20: 8	* 8392.2	8389.0	8335.0	* 21.0	* 35.5	92	2800	1961	543	* 532	* 9.2	9.4	81.8	101.3	.87	.84	* 7	* 1.45	1.50	* 10.2	9.3	16.2	* 499.0	12.58	153
D * 20: 8	* 8393.0	8389.0	8335.0	* 21.0	* 33.2	96	2900	1961	543	* 530	* 9.2	9.4	81.8	101.3	.87	.84	* 7	* 1.45	1.50	* 10.2	9.3	16.2	* 499.0	12.58	153
D * 20:16	* 8394.4	8391.4	8339.0	* 41.2	* 34.7	92	3600	1989	534	* 572	* 9.2	9.4	82.0	100.8	.87	.85	* 7	* 1.16	1.50	* 10.2	9.3	16.2	* 501.4	12.61	152
D * 20:18	* 8395.0	8392.0	8341.0	* 20.3	* 37.7	96	3200	1895	534	* 562	* 9.2	9.3	82.2	100.5	.87	.85	* 7	* 1.47	1.50	* 10.2	9.3	16.2	* 502.0	12.64	152
D * 20:23	* 8396.0	8393.0	8345.0	* 10.5	* 34.2	96	2300	1881	536	* 558	* 9.2	9.4	82.9	101.0	.87	.84	* 7	* 1.65	1.50	* 10.2	9.3	16.2	* 503.0	12.74	153
D * 20:28	* 8397.1	8393.0	8347.0	* 10.5	* 34.9	91	2600	1867	534	* 558	* 9.2	9.4	83.2	100.3	.87	.85	* 7	* 1.65	1.50	* 10.2	9.3	16.2	* 503.0	12.82	153
D * 20:30	* 8398.5	8395.3	8350.0	* 41.0	* 35.5	93	3000	1858	534	* 556	* 9.2	9.4	83.4	100.4	.87	.85	* 7	* 1.24	1.50	* 10.5	9.3	16.2	* 505.3	12.85	153
D * 20:32	* 8399.7	8396.7	8350.0	* 41.4	* 33.9	93	2800	1853	536	* 558	* 9.2	9.4	83.6	101.0	.87	.84	* 7	* 1.25	1.50	* 10.5	9.3	16.2	* 506.7	12.88	153
D * 20:33	* 8400.1	8397.1	8352.0	* 29.6	* 32.3	94	2700	1848	538	* 558	* 9.2	9.4	83.6	101.3	.87	.84	* 7	* 1.33	1.50	* 9.9	9.3	16.1	* 507.1	12.89	153
D * 20:34	* 8401.2	8397.1	8352.0	* 29.6	* 32.5	93	2900	1844	534	* 558	* 9.2	9.4	83.7	101.2	.87	.84	* 7	* 1.33	1.50	* 9.9	9.3	16.1	* 507.1	12.92	153
D * 20:36	* 8402.0	8399.0	8353.0	* 34.1	* 35.0	92	3300	1834	538	* 560	* 9.3	9.4	83.8	101.2	.87	.84	* 7	* 1.32	1.50	* 10.0	9.3	16.1	* 507.0	12.95	153
D * 20:37	* 8403.3	8400.3	8353.0	* 61.9	* 36.7	89	3000	1834	534	* 562	* 9.2	9.4	83.9	100.9	.87	.85	* 7	* 1.14	1.50	* 10.2	9.3	16.2	* 510.3	12.97	152
D * 20:38	* 8404.1	8401.1	8355.0	* 36.8	* 33.1	92	2800	1829	539	* 560	* 9.3	9.4	83.9	100.8	.87	.84	* 7	* 1.28	1.50	* 10.2	9.3	16.2	* 511.1	12.99	152
D * 20:40	* 8405.3	8402.3	8355.0	* 41.2	* 37.2	92	3000	1825	539	* 560	* 9.3	9.4	84.0	100.9	.87	.84	* 7	* 1.25	1.50	* 10.5	9.3	16.2	* 512.3	13.02	152
D * 20:41	* 8406.0	8403.0	8355.0	* 52.2	* 34.3	91	2900	1829	534	* 560	* 9.3	9.4	84.0	100.7	.87	.85	* 7	* 1.18	1.50	* 10.2	9.3	16.2	* 513.0	13.03	152
D * 20:43	* 8407.7	8404.7	8357.0	* 38.2	* 31.9	91	2700	1806	548	* 570	* 9.3	9.4	83.0	100.8	.88	.85	* 7	* 1.26	1.50	* 10.4	9.3	16.2	* 514.7	13.07	152
D * 20:44	* 8408.5	8405.5	8359.0	* 45.0	* 37.0	92	2800	1878	546	* 574	* 9.3	9.4	82.8	101.0	.88	.84	* 7	* 1.24	1.50	* 10.5	9.3	16.2	* 515.5	13.09	152
D * 20:46	* 8409.2	8406.2	8359.0	* 22.0	* 35.0	92	2900	1872	543	* 581	* 9.2	9.4	82.3	101.7	.88	.84	* 7	* 1.43	1.50	* 10.2	9.3	16.2	* 516.2	13.12	152
D * 20:47	* 8410.1	8407.1	8359.0	* 65.1	* 37.6	94	2800	1876	543	* 585	* 9.2	9.4	82.0	101.7	.89	.84	* 7	* 1.13	1.50	* 10.2	9.3	16.2	* 517.1	13.14	151
D * 20:49	* 8411.4	8408.4	8361.0	* 33.7	* 35.4	96	2800	1862	547	* 597	* 9.2	9.4	81.4	101.3	.89	.84	* 7	* 1.32	1.50	* 10.0	9.3	16.1	* 518.4	13.17	151
D * 20:51	* 8412.2	8409.2	8361.0	* 30.7	* 33.0	95	2700	1876	.89	.85	* 7	* 1.32	1.50	* 9.9	9.3	16.1	* 519.2	13.21	151						
D * 20:52	* 8413.1	8409.2	8361.0	* 30.7	* 36.0	89	2600	1872	551	* 613	* 9.2	9.4	80.9	101.0	.89	.85	* 7	* 1.32	1.50	* 9.9	9.3	16.1	* 519.2	13.21	151
D * 20:54	* 8414.2	8410.1	8361.0	* 63.6	* 33.9	91	2800	1862	543	* 627	* 9.2	9.4	80.3	101.3	.89	.84	* 7	* 1.16	1.50	* 10.2	9.3	16.2	* 520.1	13.25	151
D * 20:57	* 8415.4	8412.4	8363.0	* 30.6	* 36.8	92	2700	1853	547	* 639	* 9.2	9.4	80.1	100.8	.89	.85	* 7	* 1.36	1.50	* 9.6	9.3	16.0	* 522.4	13.29	151
D * 20:59	* 8416.0	8413.0	8363.0	* 16.4	* 36.8	92	2600	1853	546	* 649	* 9.2	9.5	79.7	100.8	.89	.85	* 7	* 1.53	1.50	* 10.2	9.3	16.2	* 523.0	13.33	151
D * 21: 0	* 8417.1	8413.0	8365.0	* 16.4	* 35.7	95	2600	1811	542	* 657	* 9.2	9.5	79.6	100.8	.89	.85	* 7	* 1.53	1.50	* 10.2	9.3	16.2	* 523.0	13.35	151
D * 21: 2	* 8418.1	8415.1	8365.0	* 42.6	* 35.7	94	2500	1801	543	* 659	* 9.2	9.4	79.7	101.0	.89	.84	* 7	* 1.25	1.50	* 10.5	9.3	16.2	* 525.1	13.38	151
D * 21: 4	* 8419.5	8416.5	8368.0	* 42.5	* 39.2	91	3500	1801	542	* 661	* 9.2	9.5	79.9	101.1	.88	.85	* 7	* 1.26	1.51	* 10.4	9.3	16.2	* 526.5	13.41	151
D * 21: 6	* 8420.2	8417.2	8369.0	* 17.0	* 37.4	93	3500	1792	546	* 663	* 9.2	9.5	80.3	100.6	.88	.86	* 7	* 1.53	1.51	* 10.2	9.3	16.2	* 527.2	13.45	151
D * 21: 7	* 8421.3	8418.3	8369.0	* 91.0	* 37.9	92	3500	1778	538	* 663	* 9.2	9.4	80.5	100.6	.88	.86	* 7	* 1.06	1.51	* 10.2	9.3	16.2	* 528.3	13.46	150
D * 21: 8	* 8422.2	8419.2	8369.0	* 41.6	* 36.2	92																			