

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

* TIME *	* MEASURED *	* DEPTHS *			* DRILLING PARAMETERS *				* MUD PARAMETERS *				* GAS *				* OVERPRESSURE SURVEY *			* ACCUMULATED ON BIT *					
		VERTCL	LAGGED	* ROP *	* WOB *	RPM	TORQ	PRESS	FLOW	* PIT *	DENSITY	TEMPERATURE	RESISTIVITY	* GAS *	* DCS *	NORM	PF	ECD	FRAC	* FEET *	TIME	COST			
* Hr:mn *	* feet *	feet	feet	* ft/h *	* kibs *	rpm	ftlb	psi	gpm	* bbls *	ppg	degF	IN	OUT	IN	OUT	IN	OUT	ppg	ppg	ppg	Feet	HR	\$	
D * 21:21	* 7452.1	7450.0	7407.0	* 22.0	* 21.0	97	2500	1862	582	* 452 *	9.2	9.3	83.7	96.0	.71	.72	* 7 *	1.28	1.43	* 9.7	9.3	15.7	* 1172.	39.03	147
D * 21:23	* 7453.3	7450.0	7409.0	* 22.0	* 29.7	100	2600	1862	582	* 450 *	9.2	9.3	83.7	95.9	.71	.72	* 7 *	1.28	1.43	* 9.7	9.3	15.7	* 1172.	39.07	147
D * 21:24	* 7454.1	7452.0	7409.0	* 30.0	* 27.5	96	2600	1866	582	* 450 *	9.2	9.3	83.8	96.2	.71	.71	* 7 *	1.21	1.43	* 10.3	9.3	15.9	* 1173.	39.09	147
D * 21:26	* 7455.3	7454.0	7411.0	* 45.6	* 28.9	96	2700	1862	583	* 448 *	9.2	9.3	83.7	96.2	.71	.71	* 7 *	1.14	1.43	* 10.8	9.3	16.0	* 1175.	39.12	147
D * 21:28	* 7456.2	7454.9	7413.0	* 32.6	* 25.6	98	2600	1866	583	* 446 *	9.2	9.3	83.7	97.0	.71	.71	* 7 *	1.21	1.43	* 10.3	9.3	15.9	* 1176.	39.15	147
D * 21:33	* 7457.4	7456.0	7414.0	* 106.2	* -9.4	63	1200	1813	574	* 464 *	9.2	9.3	83.7	96.0	.71	.71	* 7 *	.01	1.43	* 9.8	9.2	15.8	* 1177.	39.16	147
D * 21:34	* 7458.6	7456.0	7414.0	* 106.2	* 24.2	91	3300	1844	578	* 462 *	9.2	9.3	83.6	96.3	.71	.71	* 7 *	.81	1.43	* 9.8	9.2	15.8	* 1177.	39.18	147
D * 21:36	* 7459.1	7457.2	7415.0	* 56.5	* 27.4	92	3000	1835	579	* 452 *	9.2	9.3	83.6	97.2	.71	.70	* 7 *	1.06	1.43	* 9.8	9.2	15.8	* 1178.	39.20	147
D * 21:38	* 7460.1	7457.7	7417.0	* 17.5	* 23.2	92	2400	1830	579	* 446 *	9.2	9.3	83.3	96.3	.71	.69	* 7 *	1.37	1.43	* 9.8	9.2	15.8	* 1179.	39.24	147
D * 21:40	* 7461.3	7458.7	7417.0	* 28.7	* 20.6	94	2300	1844	582	* 446 *	9.2	9.3	82.3	98.6	.72	.70	* 7 *	1.23	1.43	* 10.1	9.2	15.9	* 1180.	39.27	147
D * 21:41	* 7462.0	7460.0	7419.0	* 38.8	* 26.0	93	2800	1835	581	* 450 *	9.2	9.3	81.6	99.6	.72	.69	* 7 *	1.13	1.43	* 9.8	9.2	15.8	* 1181.	39.30	147
D * 21:43	* 7463.0	7460.7	7421.0	* 27.6	* 18.2	92	2400	1835	579	* 454 *	9.1	9.3	81.0	99.3	.73	.70	* 7 *	1.27	1.43	* 9.8	9.2	15.8	* 1182.	39.33	147
D * 21:45	* 7464.1	7462.7	7421.0	* 42.0	* 31.7	93	3100	1835	575	* 456 *	9.2	9.3	80.7	99.0	.73	.70	* 7 *	1.12	1.43	* 9.8	9.2	15.8	* 1184.	39.36	147
D * 21:46	* 7465.1	7463.8	7423.0	* 41.3	* 28.9	91	2700	1835	578	* 458 *	9.1	9.3	80.3	99.1	.73	.70	* 7 *	1.15	1.43	* 10.7	9.2	16.0	* 1185.	39.38	147
D * 21:48	* 7466.4	7465.0	7424.0	* 42.4	* 21.7	95	2600	1830	575	* 464 *	9.1	9.3	80.1	98.5	.73	.70	* 7 *	1.11	1.43	* 9.8	9.2	15.8	* 1186.	39.41	147
D * 21:49	* 7467.0	7465.7	7424.0	* 38.4	* 29.7	93	2400	1830	579	* 466 *	9.1	9.2	79.8	98.0	.73	.71	* 7 *	1.22	1.43	* 10.2	9.2	15.9	* 1187.	39.43	147
D * 21:53	* 7468.0	7465.7	7424.0	* 38.4	* 27.5	91	2300	1822	575	* 472 *	9.1	9.3	79.4	98.3	.73	.71	* 7 *	1.22	1.43	* 10.2	9.2	15.9	* 1187.	39.49	147
D * 21:54	* 7469.1	7467.1	7426.0	* 24.0	* 30.5	93	2400	1817	579	* 478 *	9.1	9.2	79.2	98.6	.73	.71	* 7 *	1.32	1.43	* 9.4	9.2	15.7	* 1188.	39.51	147
D * 21:57	* 7470.0	7468.7	7428.0	* 25.2	* 30.3	92	2500	1817	582	* 482 *	9.1	9.2	79.0	98.0	.72	.70	* 7 *	1.32	1.43	* 9.5	9.2	15.7	* 1190.	39.55	147
D * 21:58	* 7471.0	7469.7	7428.0	* 40.0	* 31.7	91	3100	1808	575	* 484 *	9.1	9.2	78.8	99.0	.73	.70	* 7 *	1.18	1.43	* 10.5	9.2	16.0	* 1191.	39.58	147
D * 22: 0	* 7472.3	7470.0	7429.0	* 28.2	* 27.4	91	2600	1808	578	* 490 *	9.1	9.2	78.7	98.0	.72	.70	* 7 *	1.25	1.43	* 10.0	9.2	15.8	* 1192.	39.61	147
D * 22: 1	* 7473.0	7470.8	7431.0	* 28.2	* 28.0	92	3200	1799	579	* 492 *	9.1	9.3	78.6	98.6	.73	.71	* 7 *	1.25	1.43	* 10.0	9.2	15.8	* 1192.	39.62	147
D * 22: 3	* 7474.0	7471.7	7431.0	* 75.2	* 19.2	93	2600	1808	575	* 494 *	9.1	9.3	78.5	97.3	.73	.71	* 7 *	1.14	1.43	* 10.8	9.2	16.0	* 1194.	39.65	147
D * 22: 4	* 7475.2	7473.8	7433.0	* 52.6	* 27.7	93	2800	1799	579	* 494 *	9.1	9.2	78.4	96.6	.73	.72	* 7 *	1.07	1.43	* 9.8	9.1	15.8	* 1195.	39.67	147
D * 22: 6	* 7476.1	7474.8	7433.0	* 34.7	* 27.6	91	2700	1790	582	* 502 *	9.1	9.2	78.4	95.3	.72	.73	* 7 *	1.21	1.43	* 10.3	9.2	15.9	* 1196.	39.70	146
D * 22: 7	* 7477.3	7474.8	7434.0	* 34.7	* 13.7	92	2400	1795	579	* 502 *	9.1	9.3	78.3	95.7	.72	.73	* 7 *	1.21	1.43	* 10.3	9.1	15.9	* 1196.	39.73	146
D * 22: 8	* 7478.0	7476.7	7434.0	* 48.6	* 24.5	92	3100	1795	578	* 506 *	9.1	9.3	78.3	95.6	.73	.72	* 7 *	1.10	1.43	* 9.8	9.1	15.8	* 1198.	39.75	146
D * 22:10	* 7479.2	7477.9	7436.0	* 48.3	* 25.5	92	2800	1795	575	* 508 *	9.1	9.3	78.2	95.9	.73	.71	* 7 *	1.11	1.43	* 9.8	9.1	15.8	* 1199.	39.77	146
D * 22:12	* 7480.3	7478.9	7438.0	* 31.7	* 25.3	93	2500	1786	578	* 510 *	9.1	9.2	78.0	96.2	.73	.71	* 7 *	1.19	1.43	* 10.5	9.1	15.9	* 1200.	39.80	146
D * 22:13	* 7481.5	7480.2	7438.0	* 49.0	* 22.3	95	2500	1790	578	* 516 *	9.1	9.3	78.0	95.9	.73	.71	* 7 *	1.08	1.43	* 9.8	9.1	15.8	* 1201.	39.83	146
D * 22:14	* 7482.1	7480.0	7439.0	* 38.1	* 26.0	93	2700	1786	579	* 520 *	9.1	9.3	78.0	96.1	.72	.71	* 7 *	1.13	1.43	* 10.8	9.1	16.0	* 1202.	39.84	146
D * 22:17	* 7483.6	7482.2	7441.0	* 37.4	* 23.3	92	2400	1790	579	* 528 *	9.1	9.2	78.0	95.7	.72	.71	* 7 *	1.16	1.43	* 10.7	9.1	16.0	* 1203.	39.88	146
D * 22:19	* 7484.0	7482.7	7441.0	* 12.9	* 23.9	93	2400	1786	578	* 530 *	9.1	9.3	77.5	95.5	.73	.72	* 7 *	1.40	1.43	* 9.8	9.2	15.8	* 1204.	39.92	146
D * 22:20	* 7485.3	7484.0	7442.0	* 67.5	* 27.0	92	2700	1795	579	* 534 *	9.1	9.3	77.5	95.2	.73	.71	* 7 *	1.00	1.43	* 9.8	9.1	15.8	* 1205.	39.94	146
D * 22:21	* 7486.4	7485.1	7442.0	* 49.5	* 29.4	92	2500	1786	578	* 536 *	9.1	9.3	77.5	95.6	.72	.71	* 7 *	1.11	1.43	* 9.8	9.2	15.8	* 1206.	39.96	146
D * 22:28	* 7488.6	7487.2	7446.0	* 72.2	* 4.8	82	1500	1736	578	* 562 *	9.1	9.3	78.3	95.3	.72	.71	* 7 *	.83	1.43	* 9.8	9.2	15.8	* 1208.	39.99	146
D * 22:29	* 7489.5	7488.1	7446.0	* 126.3	* 26.4	97	2600	1763	578	* 560 *	9.1	9.2	78.3	94.9	.72	.71	* 7 *	.84	1.43	* 9.8	9.2	15.8	* 1209.	40.00	146
D * 22:31	* 7490.1	7488.8	7448.0	* 20.4	* 25.0	91	2300	1777	578	* 546 *	9.1	9.3	78.6	96.5	.72	.70	* 7 *	1.36	1.43	* 9.8	9.2	15.8	* 1210.	40.03	146
D * 22:32	* 7491.0	7489.7	7448.0	* 28.7	* 30.9	91	3200	1781	577	* 538 *	9.1	9.3	78.9	97.0	.72	.70	* 7 *	1.23	1.43	* 10.1	9.2	15.9	* 1211.	40.06	146
D * 22:34	* 7492.2	7490.8	7449.0	* 45.3	* 17.7	91	2400	1777	579	* 534 *	9.1	9.2	79.2	96.0	.72	.70	* 7 *	1.08	1.43	* 9.8	9.2	15.8	* 1212.	40.09	146
D * 22:35	* 7493.0	7491.7	7450.0	* 36.2	* 28.0	92	2600	1768	578	* 530 *	9.1	9.2	79.4	96.7	.71	.70	* 7 *	1.15	1.43	* 10.7	9.1	16.0	* 1213.	40.11	146
D * 22:37	* 7494.0	7491.7	7450.0	* 36.2	* 25.4	91	2600	1772	578	* 528 *	9.1	9.2	79.7	96.6	.71	.70	* 7 *	1.15	1.43	* 10.7	9.2	16.0	* 1213.	40.13	146
D * 22:38	* 7495.3	7493.9	7452.0	* 63.2	* 33.4	94	2800	1777	579	* 528 *	9.1	9.2	79.7	96.4	.71	.70	* 7 *	1.07	1.43	* 9.8	9.2	15.8	* 1215.	40.16	146
D * 22:40	* 7496.0	7493.9	7452.0	* 63.2	* 19.6	92	2800	1777	578	* 524 *	9.1	9.2	79.9	95.7	.71	.71	* 7 *	1.30	1.43	* 9.6	9.2	15.7	* 1216.	40.18	146
D * 22:42	* 7497.2	7494.7	7453.0	* 26.2	* 25.1	92	2400	1777	577	* 524 *	9.1	9.3	80.2	96.0	.71	.71	* 7 *	1.30	1.43	* 9.6	9.2	15.7	* 1216.	40.23	146
D * 22:44	* 7498.2	7496.9	7454.0	* 47.0	* 27.1	92	2600	1781	576	* 522 *	9.1	9.2	80.3	95.8	.71	.71	* 7 *	1.12	1.43	* 9.8	9.2	15.8	* 1218.	40.25	145
D * 22:46	* 7499.3	7498.0	7456.0	* 35.5	* 31.5	92	2700	1786	575	* 520 *	9.1	9.2	80.4	96.1	.71	.70	* 7 *	1.21	1.43	* 10.3	9.2	15.9	* 1219.	40.28	145
D * 22:47	* 7500.2	7498.9	7456.0	* 31.8	* 32.5	91	2600	1777	577	* 518 *	9.1	9.3	80.6	96.2	.71	.70	* 7 *	1.23	1.43	* 10.1	9.2	15.9	* 1220.	40.31	145
D * 22:50	* 7501.0	7500.5	7457.0	* 44.5	* 22.4	92	2400	1781	5																