

\* BIT # 31 SMITH F3 BIT DIAMETER : 8.50 inch NOZZ 13/13/ 0 MUD RHEOLOGICAL PARAMETERS : PV = 15 YP = 12 GEL = 2 \*

* DEPTHS *		* DRILLING PARAMETERS *							* MUD PARAMETERS *				* GAS *				* OVERPRESSURE SURVEY *				* ACCUMULATED ON BIT *				
* TIME *	* MEASURED *	* 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 *	* klbs *	* rpm *	* ftlb *	* psi *	* gpm *	* bbls *	* IN *	* OUT *	* IN *	* OUT *	* IN *	* OUT *	* unit *	* *	* ppq *	* ppq *	* ppq *	* feet *	* Dhr *	* \$ *	
D * 5:41	* 10939.5	10933.8	10926.0	* 5.7	* 32.8	60	2000	2449	330	* 300	* 9.8	9.6	88.4	105.2	1.22	1.21	* 6	* 1.81	2.25	* 8.0	10.0	16.8	* 84.3	8.31	758 *
D * 5:43	* 10940.4	10934.8	10926.0	* 36.9	* 32.7	61	1900	2449	330	* 370	* 9.8	9.6	88.4	105.1	1.21	1.21	* 6	* 1.22	2.25	* 8.0	10.0	16.8	* 85.3	8.34	750 *
D * 5:49	* 10941.0	10935.5	10927.0	* 6.2	* 32.2	62	1800	2453	326	* 300	* 9.8	9.6	88.6	105.1	1.22	1.22	* 6	* 1.75	2.25	* 8.0	10.0	16.8	* 86.0	8.44	749 *
D * 5:56	* 10942.1	10936.5	10928.0	* 9.2	* 31.6	61	1900	2444	330	* 304	* 9.8	9.6	88.7	105.2	1.22	1.22	* 6	* 1.65	2.25	* 8.0	10.0	16.8	* 87.0	8.55	745 *
D * 6: 2	* 10943.1	10937.5	10929.0	* 9.4	* 30.4	58	2000	2439	330	* 302	* 9.8	9.6	88.9	105.1	1.22	1.22	* 6	* 1.66	2.25	* 8.0	10.0	16.8	* 88.0	8.66	741 *
D * 6: 8	* 10944.0	10938.4	10929.0	* 10.0	* 31.0	60	1900	2435	330	* 302	* 9.8	9.6	88.9	105.3	1.22	1.21	* 6	* 1.65	2.25	* 8.0	10.0	16.8	* 88.9	8.75	737 *
D * 6:17	* 10945.2	10939.6	10931.0	* 7.6	* 32.1	60	1900	2449	330	* 306	* 9.8	9.6	89.0	105.0	1.22	1.21	* 6	* 1.72	2.25	* 8.0	10.0	16.8	* 90.1	8.90	734 *
D * 6:23	* 10946.1	10940.5	10933.0	* 9.0	* 29.5	60	1900	2444	330	* 304	* 9.8	9.6	89.0	104.9	1.22	1.21	* 6	* 1.66	2.25	* 8.0	10.0	16.8	* 91.0	9.00	730 *
D * 6:35	* 10947.2	10941.6	10934.0	* 27.2	* 28.2	52	2100	2214	274	* 404	* 9.8	9.6	88.8	103.2	1.22	1.23	* 6	* 1.24	2.25	* 8.0	9.9	16.8	* 92.1	9.04	723 *
D * 6:36	* 10949.4	10943.8	10935.0	* 24.0	* 36.9	62	2000	2341	316	* 402	* 9.8	9.6	88.8	102.4	1.22	1.24	* 6	* .98	2.25	* 8.0	10.0	16.8	* 94.3	9.06	707 *
D * 6:38	* 10950.2	10943.8	10935.0	* 24.0	* 38.0	62	2100	2392	325	* 396	* 9.8	9.6	88.8	102.7	1.22	1.23	* 6	* .98	2.25	* 8.0	10.0	16.8	* 94.3	9.09	707 *
D * 6:43	* 10951.0	10945.4	10940.0	* 10.3	* 32.9	62	2100	2378	325	* 306	* 9.8	9.6	88.7	102.3	1.22	1.22	* 6	* 1.60	2.25	* 8.0	10.0	16.8	* 95.9	9.17	699 *
D * 6:53	* 10952.2	10946.6	10937.0	* 7.0	* 33.9	0	-100	2406	325	* 304	* 9.8	9.6	88.5	104.3	1.22	1.21	* 6	* 1.76	2.25	* 8.0	10.0	16.8	* 97.1	9.34	697 *
D * 7: 5	* 10953.4	10947.8	10939.0	* 5.7	* 35.1	62	2000	2472	329	* 304	* 9.6	9.6	88.6	104.9	1.22	1.22	* 6	* 1.83	2.25	* 8.0	9.8	16.8	* 98.3	9.55	696 *
D * 7:11	* 10954.0	10947.8	10940.0	* 5.7	* 38.7	61	1900	2472	329	* 302	* 9.6	9.6	88.7	105.0	1.22	1.20	* 6	* 1.83	2.25	* 8.0	9.8	16.8	* 98.3	9.64	696 *
D * 7:17	* 10955.1	10949.5	10941.0	* 10.3	* 32.4	60	1900	2402	329	* 382	* 9.6	9.6	88.9	104.7	1.22	1.22	* 6	* 1.71	2.25	* 8.0	9.8	16.8	* 100.0	9.74	692 *
D * 7:26	* 10956.0	10950.5	10942.0	* 6.5	* 33.7	60	1900	2406	329	* 370	* 9.6	9.6	89.0	105.4	1.22	1.22	* 6	* 1.81	2.25	* 8.0	9.8	16.8	* 101.0	9.89	690 *
D * 7:35	* 10957.1	10951.5	10943.0	* 7.2	* 35.6	62	1800	2406	329	* 370	* 9.6	9.6	89.2	104.7	1.22	1.22	* 6	* 1.79	2.25	* 8.0	9.8	16.8	* 102.0	10.04	688 *
D * 7:45	* 10958.0	10951.5	10945.0	* 7.2	* 32.7	60	1800	2430	326	* 370	* 9.6	9.6	89.3	104.9	1.22	1.22	* 6	* 1.79	2.25	* 8.0	9.8	16.8	* 102.0	10.20	688 *
D * 7:54	* 10959.1	10953.5	10946.0	* 7.4	* 36.5	62	1900	2444	329	* 370	* 9.6	9.6	89.4	105.2	1.22	1.22	* 6	* 1.79	2.25	* 8.0	9.8	16.8	* 104.0	10.35	686 *
D * 8: 4	* 10960.2	10954.7	10950.0	* 7.0	* 35.7	61	1800	2430	325	* 370	* 9.6	9.6	89.5	105.1	1.22	1.22	* 6	* 1.81	2.25	* 8.0	9.8	16.8	* 105.2	10.51	684 *
D * 8:15	* 10961.1	10955.5	10951.0	* 4.6	* 29.4	62	1800	2439	328	* 370	* 9.6	9.6	89.6	104.6	1.22	1.22	* 6	* 1.90	2.25	* 8.0	9.8	16.8	* 106.0	10.70	685 *
D * 8:22	* 10962.1	10956.5	10952.0	* 7.4	* 29.2	62	1900	2430	329	* 374	* 9.6	9.6	89.6	105.0	1.22	1.22	* 6	* 1.74	2.25	* 8.0	9.8	16.8	* 107.0	10.83	683 *
D * 8:29	* 10963.4	10957.8	10953.0	* 12.6	* 30.2	61	1900	2430	326	* 376	* 9.6	9.6	89.6	105.5	1.22	1.22	* 6	* 1.57	2.25	* 8.0	9.8	16.8	* 108.3	10.93	678 *
D * 8:36	* 10964.0	10957.8	10954.0	* 12.6	* 32.6	62	1900	2425	325	* 376	* 9.6	9.6	89.6	105.7	1.22	1.23	* 6	* 1.57	2.25	* 8.0	9.8	16.8	* 108.3	11.05	678 *
D * 8:40	* 10965.1	10959.6	10955.0	* 14.6	* 33.5	60	2000	2430	326	* 374	* 9.6	9.6	89.7	105.5	1.22	1.22	* 6	* 1.55	2.25	* 8.0	9.8	16.9	* 110.0	11.13	674 *
D * 8:47	* 10966.5	10960.9	10955.0	* 11.3	* 34.9	61	2100	2435	329	* 374	* 9.6	9.6	89.8	106.0	1.22	1.20	* 6	* 1.62	2.25	* 8.0	9.8	16.9	* 111.4	11.25	670 *
D * 8:53	* 10967.1	10961.5	10956.0	* 7.1	* 32.8	61	2000	2439	325	* 374	* 9.6	9.6	89.9	105.8	1.22	1.21	* 6	* 1.76	2.25	* 8.0	9.8	16.9	* 112.0	11.33	669 *
D * 9: 0	* 10968.4	10961.5	10957.0	* 7.1	* 30.9	61	2000	2444	329	* 376	* 9.6	9.6	90.1	105.5	1.22	1.22	* 6	* 1.76	2.25	* 8.0	9.8	16.9	* 112.0	11.45	669 *
D * 9: 5	* 10969.2	10963.7	10957.0	* 10.9	* 34.8	60	2000	2439	329	* 376	* 9.6	9.6	90.1	104.9	1.22	1.23	* 6	* 1.62	2.25	* 8.0	9.8	16.9	* 114.1	11.53	663 *
D * 9:12	* 10970.2	10964.7	10958.0	* 8.4	* 31.0	62	2000	2435	328	* 370	* 9.6	9.6	90.1	105.4	1.22	1.21	* 6	* 1.60	2.25	* 8.0	9.8	16.9	* 115.2	11.65	661 *
D * 9:17	* 10971.1	10965.5	10958.0	* 10.8	* 29.2	60	2000	2435	329	* 374	* 9.6	9.6	90.1	105.6	1.22	1.22	* 6	* 1.61	2.25	* 8.0	9.8	16.9	* 116.0	11.73	658 *
D * 9:24	* 10972.1	10966.6	10959.0	* 8.1	* 33.3	61	2000	2435	328	* 374	* 9.6	9.6	90.2	105.3	1.22	1.22	* 6	* 1.70	2.25	* 8.0	9.8	16.9	* 117.0	11.86	657 *
D * 9:30	* 10973.0	10967.4	10960.0	* 9.6	* 31.6	62	2000	2425	325	* 300	* 9.7	9.6	90.3	104.8	1.22	1.22	* 6	* 1.65	2.25	* 8.0	9.8	16.9	* 117.9	11.95	654 *
D * 9:36	* 10974.1	10968.5	10961.0	* 10.1	* 34.6	62	2000	2439	325	* 370	* 9.6	9.6	90.3	105.6	1.22	1.22	* 6	* 1.66	2.25	* 8.0	9.8	16.9	* 119.0	12.06	652 *
D * 9:43	* 10975.2	10969.6	10961.0	* 9.1	* 32.3	62	2100	2430	329	* 300	* 9.6	9.6	90.3	105.6	1.22	1.22	* 6	* 1.60	2.25	* 8.0	9.8	16.9	* 120.1	12.18	650 *
D * 9:50	* 10976.5	10970.9	10962.0	* 12.2	* 31.2	60	2000	2430	328	* 300	* 9.6	9.6	90.3	105.2	1.22	1.23	* 6	* 1.61	2.25	* 8.0	9.8	16.9	* 121.4	12.28	646 *
D * 9:55	* 10977.2	10971.5	10963.0	* 6.9	* 32.6	62	2000	2430	325	* 370	* 9.7	9.6	90.3	106.0	1.22	1.21	* 6	* 1.76	2.25	* 8.0	9.8	16.9	* 122.0	12.37	645 *
D * 10: 3	* 10978.0	10972.5	10964.0	* 7.6	* 32.4	62	2000	2435	329	* 370	* 9.6	9.6	90.4	104.6	1.22	1.24	* 6	* 1.72	2.25	* 8.0	9.8	16.9	* 123.0	12.50	644 *
D * 10:11	* 10979.0	10973.5	10966.0	* 7.0	* 32.3	60	2000	2421	325	* 376	* 9.6	9.6	90.3	105.5	1.22	1.21	* 6	* 1.71	2.25	* 8.0	9.8	16.9	* 124.0	12.64	643 *
D * 10:27	* 10984.1	10978.5	10967.0	* 30.9	* 28.6	55	1900	2425	318	* 400	* 9.7	9.6	90.2	105.1	1.23	1.23	* 6	* 1.15	2.25	* 8.0	9.8	16.9	* 129.0	12.77	621 *
D * 10:31	* 10981.1	10979.4	10968.0	* 13.1	* 37.5	62	2000	2491	329	* 394	* 9.6	9.6	90.1	103.8	1.22	1.24	* 6	* 1.61	2.25	* 8.0	9.8	16.9	* 129.9	12.83	619 *
D * 10:43	* 10982.4	10980.8	10970.0	* 6.6	* 37.4	60	2000	2477	329	* 304	* 9.7	9.6	89.8	105.3	1.22	1.21	* 6	* 1.81	2.25	* 8.0	9.8	16.9	* 131.2	13.03	618 *
D * 10:49	* 10983.1	10981.4	10971.0	* 7.1	* 36.7	61	2100	2453	325	* 304	* 9.6	9.6	89.9	105.7	1.22	1.22	* 6	* 1.80	2.26	* 8.0	9.8	16.9	* 131.9	13.13	618 *
D * 10:58	* 10984.1	10982.4	10973.0	* 6.2	* 37.0	62	2000	2450	325	* 382	* 9.6	9.6	90.0	105.8	1.22	1.22	* 6	* 1.82	2.26	* 8.0	9.8	16.9	* 132.9	13.20	617 *
D * 11: 5	* 10985.0	10983.4	10974.0	* 8.8	* 35.8	61	2000	2453	325	* 376	* 9.6	9.6	90.1	105.1	1.22	1.23	* 6	* 1.73	2.26	* 8.0	9.8	16.9	* 130.5	13.39	632 *
D * 11:14	* 10986.0	10984.4	10975.0	* 6.9	* 38.7	60	1900	2444	329	* 370	* 9.6	9.7	90.1	105.0	1.22	1.22	* 6	*							