

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

TIME		DEPTHS			DRILLING PARAMETERS					MUD PARAMETERS				GAS				OVERPRESSURE SURVEY				ACCUMULATED ON BIT			
Hr:mn	feet	feet	feet	ROP	WOB	RPM	TORQ	PRESS	FLOW	PIT	DENSITY	TEMPERATURE		RESISTIVITY		GAS		DCS	NORM	PF	ECD	FRAC	FEET	TIME	COST
				ft/h	kibs	rph	ftlb	psi	gpm	bbbls	ppg	IN	OUT	IN	OUT	unit		ppg	ppg	ppg					
D * 18:34	7354.5	7352.8	7310.0	27.1	29.6	95	3200	1795	578	452	9.2	9.3	78.5	95.1	.71	.71	7	1.24	1.42	10.0	9.3	15.8	1074	36.54	152
D * 18:35	7355.1	7353.8	7310.0	49.6	28.5	94	3300	1799	582	456	9.2	9.2	78.6	94.6	.71	.71	7	1.10	1.42	9.7	9.3	15.7	1075	36.56	152
D * 18:36	7356.4	7355.1	7310.0	122.9	27.0	93	3600	1808	579	454	9.2	9.2	78.5	94.4	.71	.71	7	.88	1.42	9.7	9.3	15.7	1076	36.57	152
D * 18:37	7357.2	7355.1	7312.0	122.9	25.6	103	3300	1799	579	456	9.2	9.3	78.4	94.7	.71	.71	7	.88	1.42	9.7	9.3	15.7	1076	36.59	152
D * 18:38	7358.2	7355.9	7312.0	31.0	23.7	95	3100	1804	578	458	9.2	9.3	78.5	94.5	.71	.70	7	1.22	1.42	10.2	9.2	15.8	1078	36.61	152
D * 18:40	7359.4	7356.8	7313.0	77.3	24.1	96	3100	1804	583	460	9.2	9.3	78.3	94.8	.71	.71	7	.98	1.42	9.7	9.3	15.7	1078	36.64	152
D * 18:41	7360.4	7359.0	7313.0	58.3	26.6	95	3200	1804	578	462	9.2	9.3	78.4	95.0	.71	.70	7	1.05	1.42	9.7	9.3	15.7	1080	36.66	152
D * 18:42	7361.0	7359.7	7314.0	27.3	25.2	97	3000	1795	578	464	9.2	9.3	78.2	95.1	.71	.70	7	1.27	1.42	9.8	9.3	15.7	1081	36.68	152
D * 18:43	7362.2	7360.8	7314.0	107.7	28.9	96	3500	1804	583	464	9.2	9.3	78.3	95.4	.71	.70	7	.91	1.42	9.7	9.3	15.7	1082	36.69	152
D * 18:44	7363.3	7360.8	7316.0	107.7	28.7	95	2700	1804	582	466	9.2	9.3	78.2	95.3	.71	.70	7	.91	1.42	9.7	9.3	15.7	1082	36.71	152
D * 18:46	7364.7	7363.4	7316.0	44.8	24.9	95	3000	1795	579	470	9.2	9.3	78.2	94.7	.71	.71	7	1.14	1.42	10.7	9.2	16.0	1084	36.74	152
D * 18:47	7365.1	7363.8	7317.0	37.4	28.0	95	3200	1799	579	470	9.2	9.3	78.1	94.5	.71	.71	7	1.17	1.42	10.5	9.3	15.9	1085	36.75	152
D * 18:48	7366.4	7365.1	7317.0	52.3	29.5	100	3300	1804	578	472	9.2	9.3	78.1	94.5	.71	.71	7	1.14	1.42	10.8	9.3	16.0	1086	36.77	151
D * 18:49	7367.0	7365.1	7319.0	52.3	29.1	95	3100	1799	578	476	9.2	9.3	78.3	94.6	.71	.71	7	1.14	1.42	10.8	9.3	16.0	1086	36.79	151
D * 18:52	7368.4	7367.0	7321.0	40.1	26.5	1	100	1790	579	478	9.2	9.3	78.0	94.7	.71	.71	7	1.18	1.42	10.5	9.2	15.9	1088	36.83	151
D * 19: 0	7369.1	7367.7	7323.0	11.9	25.5	93	2900	1750	570	500	9.2	9.3	78.3	95.3	.71	.70	7	1.40	1.42	9.7	9.3	15.7	1089	36.89	151
D * 19: 1	7370.1	7368.7	7323.0	51.2	26.4	94	3300	1754	565	496	9.2	9.3	78.0	96.0	.71	.69	7	1.08	1.42	9.7	9.3	15.7	1090	36.91	151
D * 19: 2	7371.2	7369.8	7323.0	120.6	31.0	92	3400	1754	575	496	9.2	9.3	78.0	95.9	.71	.69	7	.88	1.42	9.7	9.3	15.7	1091	36.92	151
D * 19: 4	7372.0	7370.7	7324.0	23.8	29.8	93	3300	1745	575	494	9.2	9.3	77.9	95.5	.71	.70	7	1.27	1.42	9.8	9.3	15.7	1092	36.95	151
D * 19: 5	7373.1	7371.7	7326.0	49.9	20.3	91	3100	1759	575	494	9.2	9.3	77.7	95.4	.71	.71	7	1.11	1.42	9.7	9.2	15.7	1093	36.97	151
D * 19: 7	7374.1	7372.7	7326.0	46.6	26.8	91	3300	1745	575	496	9.2	9.3	77.8	95.1	.71	.71	7	1.12	1.42	9.7	9.2	15.7	1094	36.99	151
D * 19: 8	7375.2	7372.7	7328.0	46.6	27.3	91	3200	1736	575	400	9.2	9.3	77.5	94.6	.71	.71	7	1.12	1.42	9.7	9.3	15.7	1094	37.01	151
D * 19:10	7376.4	7375.1	7330.0	29.4	26.2	90	2700	1750	570	506	9.2	9.3	77.6	94.2	.71	.72	7	1.23	1.42	10.1	9.2	15.8	1096	37.06	151
D * 19:11	7377.1	7375.8	7330.0	57.6	28.2	92	2800	1754	579	510	9.2	9.3	77.7	94.5	.71	.71	7	1.05	1.42	9.7	9.2	15.7	1097	37.07	151
D * 19:13	7378.2	7376.9	7332.0	38.0	28.1	92	3200	1745	575	512	9.2	9.3	77.5	94.4	.71	.71	7	1.19	1.42	10.4	9.2	15.9	1098	37.10	151
D * 19:14	7379.1	7376.9	7332.0	38.0	23.8	90	3000	1745	575	516	9.2	9.3	77.5	93.9	.71	.71	7	1.19	1.42	10.4	9.3	15.9	1098	37.11	151
D * 19:16	7380.1	7377.7	7334.0	60.9	25.0	92	2600	1736	575	516	9.2	9.3	77.5	94.0	.71	.71	7	1.05	1.42	9.7	9.2	15.7	1099	37.15	151
D * 19:16	7381.2	7379.6	7334.0	44.5	18.5	92	2700	1745	575	516	9.2	9.3	77.5	94.1	.71	.70	7	1.12	1.42	9.7	9.3	15.7	1101	37.16	151
D * 19:18	7382.2	7380.9	7335.0	42.0	24.9	93	3200	1741	578	516	9.2	9.3	77.6	94.0	.71	.72	7	1.14	1.42	10.8	9.3	16.0	1102	37.19	151
D * 19:20	7383.1	7381.7	7335.0	32.5	21.1	91	3200	1750	575	520	9.2	9.3	77.8	94.1	.71	.71	7	1.19	1.42	10.4	9.2	15.9	1103	37.21	151
D * 19:22	7384.0	7382.7	7335.0	27.4	26.5	89	2600	1745	574	522	9.2	9.3	77.6	93.7	.71	.72	7	1.27	1.42	9.8	9.3	15.7	1104	37.24	151
D * 19:22	7385.1	7383.8	7335.0	91.6	29.1	91	3000	1736	566	520	9.2	9.3	77.6	93.6	.71	.71	7	.98	1.42	9.7	9.3	15.7	1105	37.26	150
D * 19:24	7386.2	7383.8	7336.0	91.6	23.8	91	2600	1745	570	524	9.2	9.3	77.6	93.6	.71	.72	7	.98	1.42	9.7	9.2	15.7	1105	37.28	150
D * 19:25	7387.1	7384.9	7336.0	38.9	30.6	91	3400	1741	573	526	9.2	9.3	77.7	94.0	.71	.70	7	1.18	1.42	10.4	9.3	15.9	1106	37.30	150
D * 19:26	7388.0	7385.8	7338.0	50.2	31.3	92	2700	1741	575	528	9.2	9.3	77.6	94.2	.71	.71	7	1.12	1.42	9.7	9.3	15.7	1107	37.32	150
D * 19:28	7389.1	7386.7	7340.0	39.5	27.0	95	2800	1745	575	528	9.2	9.2	77.7	94.2	.71	.70	7	1.19	1.42	10.4	9.2	15.9	1108	37.35	150
D * 19:29	7390.2	7388.9	7340.0	66.8	35.1	95	3400	1741	575	528	9.2	9.3	77.8	94.6	.71	.71	7	1.03	1.42	9.7	9.3	15.7	1110	37.37	150
D * 19:32	7391.2	7388.9	7342.0	66.8	25.9	93	3100	1741	578	528	9.2	9.3	77.4	94.2	.71	.71	7	1.03	1.42	9.7	9.3	15.7	1110	37.41	150
D * 19:33	7392.1	7390.8	7342.0	44.3	27.2	92	3100	1723	570	528	9.2	9.3	77.5	94.2	.71	.71	7	1.14	1.42	10.8	9.2	16.0	1112	37.43	150
D * 19:37	7393.3	7390.8	7345.0	44.3	24.8	92	2800	1736	577	532	9.2	9.3	77.6	94.9	.71	.70	7	1.14	1.42	10.8	9.2	16.0	1112	37.50	150
D * 19:46	7394.7	7393.3	7349.0	37.5	6.4	73	2400	1777	575	558	9.2	9.3	78.0	95.7	.71	.69	7	1.05	1.42	9.7	9.3	15.7	1114	37.54	150
D * 19:46	7395.9	7394.5	7349.0	649.6	22.8	89	2900	1777	575	554	9.2	9.3	78.7	95.3	.71	.70	7	.42	1.42	9.7	9.2	15.7	1116	37.54	150
D * 19:46	7396.2	7394.9	7349.0	46.8	29.9	86	3100	1781	575	558	9.2	9.3	78.8	95.3	.71	.70	7	1.09	1.42	9.7	9.3	15.7	1116	37.54	150
D * 19:47	7397.4	7396.1	7350.0	69.1	23.4	91	2500	1786	575	542	9.2	9.2	78.9	96.1	.71	.70	7	.98	1.42	9.7	9.3	15.7	1117	37.56	150
D * 19:48	7398.2	7396.9	7350.0	56.9	29.4	91	2700	1795	579	538	9.2	9.3	79.0	96.6	.71	.70	7	1.03	1.42	9.7	9.3	15.7	1118	37.58	150
D * 19:49	7399.0	7397.7	7350.0	63.5	31.9	88	3300	1786	579	534	9.2	9.3	79.0	96.8	.71	.69	7	1.06	1.42	9.7	9.3	15.7	1119	37.59	150
D * 19:51	7400.2	7398.8	7353.0	34.6	32.1	88	3100	1795	579	526	9.2	9.2	79.2	97.2	.71	.70	7	1.20	1.42	10.3	9.3	15.9	1120	37.62	150
D * 19:55	7401.3	7398.8	7357.0	34.6	25.1	89	2900	1804	583	520	9.2	9.3	79.6	96.4	.71	.70	7	1.20	1.42	10.3	9.3	15.9	1120	37.68	150
D * 19:57	7402.0	7400.0	7357.0	18.7	29.7	91	3200	1813	583	520	9.2	9.2	79.7	95.6	.70	.71	7	1.36	1.43	9.7	9.3	15.7	1121	37.71	150