

466495

\* 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 *	* klbs *	* rpm *	* ftlb *	* psi *	* gpm *	* bbls *	* ppq *	* degF *	* IN *	* OUT *	* IN *	* OUT *	* IN *	* OUT *	* IN *	* OUT *	* IN *	* OUT *		
D * 19:59	7403.1	7401.8	7359.0	34.4	24.6	89	2900	1822	579	524	9.2	9.2	79.9	95.7	.71	.71	7	1.10	1.43	10.5	9.3	15.9	1123.37.75	150
D * 20: 0	7404.1	7402.7	7361.0	52.0	27.2	89	3000	1826	582	522	9.2	9.2	80.1	95.8	.71	.71	7	1.08	1.43	9.7	9.3	15.7	1124.37.77	150
D * 20: 2	7405.1	7402.7	7363.0	52.0	32.7	91	3200	1817	587	522	9.2	9.3	80.3	95.7	.71	.70	7	1.08	1.43	9.7	9.3	15.7	1124.37.81	150
D * 20: 3	7406.1	7403.8	7363.0	23.2	24.7	89	3000	1826	584	520	9.2	9.3	80.3	95.6	.71	.71	7	1.31	1.43	9.5	9.3	15.7	1125.37.83	150
D * 20: 5	7408.0	7406.6	7365.0	45.4	25.9	88	3000	1822	588	516	9.2	9.2	80.5	95.3	.71	.71	7	1.11	1.43	9.7	9.3	15.7	1128.37.87	149
D * 20: 6	7408.2	7406.6	7365.0	45.4	21.7	91	3000	1822	588	514	9.2	9.2	80.5	95.3	.71	.71	7	1.11	1.43	9.7	9.3	15.7	1128.37.88	149
D * 20: 8	7409.0	7407.7	7367.0	31.2	26.1	89	3000	1830	583	516	9.2	9.2	80.6	95.7	.71	.70	7	1.22	1.43	10.2	9.3	15.9	1129.37.91	149
D * 20: 9	7409.1	7408.7	7367.0	62.4	31.0	87	3100	1822	580	512	9.2	9.2	80.8	96.3	.71	.70	7	1.03	1.43	9.7	9.3	15.7	1130.37.92	149
D * 20:10	7411.1	7408.7	7368.0	62.4	25.0	89	2700	1830	583	510	9.2	9.3	80.8	96.8	.71	.70	7	1.03	1.43	9.7	9.3	15.7	1130.37.94	149
D * 20:12	7412.6	7409.7	7368.0	58.9	26.3	88	2600	1835	579	510	9.2	9.3	80.9	97.9	.71	.69	7	1.08	1.43	9.7	9.3	15.7	1131.37.97	149
D * 20:14	7413.1	7411.3	7368.0	46.4	29.2	88	3300	1830	578	510	9.3	9.2	81.0	97.7	.71	.70	7	1.10	1.43	9.7	9.3	15.7	1132.38.00	149
D * 20:15	7414.2	7411.7	7368.0	15.7	25.2	87	2700	1835	583	510	9.2	9.2	81.0	98.0	.71	.69	7	1.38	1.43	9.7	9.3	15.7	1133.38.01	149
D * 20:16	7415.1	7412.9	7370.0	124.9	25.3	90	2400	1835	584	510	9.2	9.3	81.2	98.0	.70	.70	7	.84	1.43	9.7	9.3	15.7	1134.38.04	149
D * 20:19	7416.1	7414.7	7372.0	23.1	18.4	88	2200	1839	579	514	9.2	9.3	81.5	98.2	.71	.70	7	1.26	1.43	9.8	9.3	15.8	1136.38.09	149
D * 20:20	7417.4	7416.0	7373.0	73.0	27.5	91	3000	1835	575	512	9.2	9.2	81.5	98.7	.71	.69	7	1.00	1.43	9.7	9.3	15.7	1137.38.10	149
D * 20:21	7418.2	7416.9	7373.0	38.8	27.3	88	3300	1830	587	510	9.2	9.2	81.6	98.7	.71	.70	7	1.14	1.43	10.8	9.3	16.0	1138.38.13	149
D * 20:23	7419.0	7417.7	7375.0	42.5	23.7	89	2700	1835	579	510	9.3	9.2	81.7	98.7	.71	.70	7	1.09	1.43	9.7	9.3	15.7	1139.38.14	149
D * 20:24	7420.0	7418.7	7375.0	49.5	32.7	89	3000	1835	583	508	9.2	9.3	81.8	98.4	.70	.70	7	1.05	1.43	9.7	9.3	15.7	1140.38.16	149
D * 20:25	7421.0	7419.7	7377.0	43.7	31.1	87	3100	1844	583	510	9.2	9.2	82.0	97.9	.71	.70	7	1.13	1.43	9.7	9.3	15.7	1141.38.17	149
D * 20:27	7422.2	7420.8	7377.0	40.0	29.2	88	2800	1830	587	508	9.2	9.3	82.1	97.6	.71	.71	7	1.15	1.43	10.7	9.3	16.0	1142.38.22	149
D * 20:29	7423.0	7420.8	7379.0	40.0	30.8	89	2900	1835	582	506	9.2	9.2	82.3	98.3	.71	.70	7	1.15	1.43	10.7	9.3	16.0	1142.38.25	149
D * 20:30	7424.2	7422.9	7380.0	52.2	29.0	89	2600	1839	579	504	9.2	9.3	82.4	98.4	.70	.70	7	1.10	1.43	9.7	9.3	15.7	1144.38.27	149
D * 20:38	7425.1	7423.8	7382.0	15.4	33.8	95	2800	1862	583	516	9.2	9.3	82.9	96.8	.71	.71	7	1.38	1.43	9.7	9.3	15.7	1145.38.33	149
D * 20:39	7426.2	7424.9	7384.0	51.3	26.7	96	2500	1857	582	508	9.2	9.3	82.9	98.1	.71	.71	7	1.10	1.43	9.7	9.3	15.7	1146.38.35	149
D * 20:40	7427.3	7425.9	7384.0	100.0	28.2	96	2600	1848	587	504	9.2	9.3	83.0	97.8	.71	.70	7	.92	1.43	9.7	9.3	15.7	1147.38.36	148
D * 20:42	7428.1	7426.8	7386.0	33.7	27.1	99	2600	1862	582	500	9.2	9.3	83.0	97.3	.71	.71	7	1.17	1.43	10.5	9.3	16.0	1148.38.38	148
D * 20:43	7429.0	7427.7	7386.0	33.1	31.0	98	3400	1862	584	496	9.2	9.3	83.0	97.9	.71	.70	7	1.17	1.43	10.6	9.3	16.0	1149.38.41	148
D * 20:44	7430.0	7428.7	7388.0	56.1	21.6	100	2400	1857	583	492	9.2	9.3	83.1	98.0	.71	.70	7	1.07	1.43	9.7	9.3	15.7	1150.38.43	148
D * 20:47	7431.4	7430.0	7389.0	26.6	30.8	97	2600	1862	582	488	9.2	9.2	83.2	97.8	.71	.70	7	1.25	1.43	9.9	9.3	15.8	1151.38.48	148
D * 20:48	7432.4	7431.0	7389.0	69.2	25.4	96	2500	1862	583	488	9.2	9.2	83.2	97.1	.71	.71	7	1.02	1.43	9.7	9.3	15.7	1152.38.50	148
D * 20:49	7433.3	7432.0	7391.0	40.5	27.7	100	2700	1857	582	486	9.2	9.2	83.3	96.8	.71	.71	7	1.13	1.43	10.8	9.3	16.0	1153.38.52	148
D * 20:52	7434.4	7433.0	7392.0	32.8	16.5	99	2500	1866	583	484	9.2	9.2	83.4	96.4	.71	.72	7	1.16	1.43	10.7	9.3	16.0	1154.38.55	148
D * 20:53	7435.1	7433.8	7392.0	31.3	26.9	95	3100	1862	583	482	9.2	9.2	83.4	96.6	.71	.70	7	1.18	1.43	10.5	9.3	15.9	1155.38.57	148
D * 20:55	7436.3	7434.9	7393.0	37.3	21.7	95	3000	1862	583	484	9.2	9.3	83.4	96.9	.71	.71	7	1.10	1.43	9.7	9.3	15.7	1156.38.60	148
D * 20:56	7437.3	7435.9	7393.0	50.1	22.8	97	2800	1862	583	482	9.2	9.3	83.5	96.6	.71	.71	7	1.01	1.43	9.7	9.3	15.7	1157.38.62	148
D * 20:57	7438.3	7435.9	7393.0	50.1	15.5	97	2500	1866	582	478	9.2	9.3	83.5	95.7	.71	.72	7	1.01	1.43	9.7	9.3	15.7	1157.38.65	148
D * 21: 0	7439.1	7437.8	7394.0	23.6	19.2	95	2700	1866	582	476	9.2	9.2	83.4	96.5	.71	.71	7	1.22	1.43	10.2	9.3	15.9	1159.38.69	148
D * 21: 1	7440.1	7438.8	7394.0	48.6	21.7	96	2800	1857	582	474	9.2	9.2	83.5	96.6	.71	.70	7	1.04	1.43	9.7	9.3	15.7	1160.38.71	148
D * 21: 3	7441.4	7440.1	7397.0	31.5	23.7	96	2900	1862	582	470	9.2	9.3	83.5	96.5	.71	.70	7	1.18	1.43	10.5	9.3	15.9	1161.38.75	148
D * 21: 4	7442.1	7440.1	7397.0	31.5	29.7	96	3100	1857	587	468	9.2	9.3	83.5	96.6	.71	.71	7	1.10	1.43	10.5	9.2	15.9	1161.38.75	148
D * 21: 5	7443.0	7441.7	7399.0	46.1	26.3	97	2700	1862	582	470	9.2	9.3	83.4	96.8	.71	.71	7	1.13	1.43	9.7	9.3	15.7	1163.38.78	148
D * 21: 8	7444.0	7443.5	7400.0	37.9	24.1	100	2700	1862	583	464	9.2	9.2	83.4	97.3	.71	.70	7	1.16	1.43	10.6	9.3	16.0	1165.38.83	148
D * 21: 8	7445.3	7444.0	7400.0	89.3	31.3	96	2800	1862	582	464	9.2	9.2	83.4	97.1	.71	.71	7	.97	1.43	9.7	9.3	15.7	1165.38.83	148
D * 21: 9	7446.1	7444.8	7401.0	49.4	30.3	96	2700	1866	582	464	9.2	9.2	83.4	96.8	.71	.70	7	1.14	1.43	10.8	9.3	16.0	1166.38.85	148
D * 21:11	7447.1	7445.8	7401.0	46.4	30.5	98	2800	1866	582	464	9.2	9.3	83.5	97.6	.71	.70	7	1.15	1.43	10.7	9.3	16.0	1167.38.87	148
D * 21:12	7448.1	7446.8	7402.0	37.9	28.5	95	3600	1866	582	462	9.2	9.3	83.5	97.5	.71	.70	7	1.19	1.43	10.4	9.3	15.9	1168.38.90	147
D * 21:14	7449.0	7446.8	7402.0	37.9	23.7	98	2500	1853	583	458	9.2	9.2	83.5	98.4	.71	.69	7	1.19	1.43	10.4	9.3	15.9	1168.38.91	147
D * 21:16	7450.0	7448.7	7404.0	31.6	30.2	96	2800	1866	583	460	9.2	9.3	83.5	98.3	.71	.70	7	1.22	1.43	10.2	9.3	15.9	1170.38.95	147
D * 21:18	7451.1	7449.8	7405.0	28.8	28.5	96	2800	1862	582	456	9.2	9.3	83.5	97.7	.71	.71	7	1.25	1.43	10.0	9.3	15.8	1171.38.98	147