

* BIT # 0 SMITH FJJ BIT DIAMETER : 12.25 inch NOZZ 13/13/13

MUD RHEOLOGICAL PARAMETERS : PV = 1 YP = 3 GEL = 1

TIME	MEASURED	DEPTHS			DRILLING PARAMETERS					MUD PARAMETERS				GAS				OVERPRESSURE SURVEY				ACCUMULATED ON BIT			
		VERTCL	LAGGED	ROP	WOB	RPM	TORG	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	bbbls	IN	OUT	IN	OUT	OHMM	unit	ppg	ppg	ppg	ppg	feet	DHr	\$		
D * 18: 0	2110.3	2100.1	1917.0	173.6	9.6	87	800	1731	502	430	0.6	0.6	55.7	63.8	.21	.22	3	.71	.90	10.6	0.6	13.9	3.5	.01	7780
D * 18: 0	2112.7	2110.3	1917.0	415.7	7.4	87	800	1736	503	426	0.6	0.6	55.7	63.8	.21	.22	3	.51	.90	8.6	0.6	13.0	4.3	.01	6391
D * 18: 8	2115.9	2114.7	1917.0	632.3	7.2	80	700	1731	498	426	0.6	0.6	55.7	63.8	.21	.22	3	.42	.90	8.6	0.6	13.0	8.6	.01	3169
D * 18:12	2119.4	2117.6	1905.0	631.8	6.2	0	0	1528	479	430	0.6	0.6	55.9	64.7	.21	.22	3	-17.8	.90	8.6	0.6	13.0	12.1	.04	2259
D * 18:12	2120.6	2118.2	1905.0	302.2	0	26	1000	1514	469	420	0.6	0.6	55.9	64.9	.21	.22	3	-17.8	.90	8.6	0.6	13.0	12.1	.04	2259
D * 19: 2	2124.7	2124.4	2100.0	250.2	6.6	88	800	1751	500	406	0.6	0.6	57.0	63.8	.21	.21	4	.57	.90	8.6	0.6	13.0	12.1	.04	2259
D * 19: 2	2127.3	2126.5	2100.0	286.5	6.8	93	900	1760	504	406	0.6	0.6	57.0	63.8	.21	.21	3	.58	.90	8.6	0.6	13.0	31.6	.00	871
D * 19: 2	2128.0	2128.0	2100.0	369.1	9.4	93	800	1770	503	488	0.6	0.6	57.0	63.8	.21	.21	4	.57	.90	8.6	0.6	13.0	33.1	.00	831
D * 19: 3	2131.7	2131.4	2100.0	545.3	10.2	88	900	1765	508	488	0.6	0.6	57.0	63.8	.21	.21	3	.47	.90	8.6	0.6	13.0	36.5	.09	756
D * 19: 3	2134.9	2134.9	2100.0	679.0	10.2	91	900	1775	504	490	0.6	0.6	57.1	63.8	.21	.21	3	.43	.90	8.6	0.6	13.0	40.0	.10	690
D * 19: 3	2137.4	2137.4	2100.0	350.5	10.0	92	900	1775	504	488	0.6	0.6	57.0	63.9	.21	.21	3	.58	.90	8.6	0.6	13.0	42.5	.10	658
D * 19: 4	2138.8	2138.5	2100.0	320.2	10.4	90	1000	1775	508	486	0.6	0.6	57.1	64.0	.21	.21	3	.57	.90	8.6	0.6	13.0	43.6	.11	633
D * 19: 4	2140.6	2140.0	2100.0	223.5	9.0	52	700	1765	508	490	0.6	0.6	57.1	64.0	.21	.21	3	.66	.90	11.1	0.6	14.1	45.2	.12	612
D * 19:12	2125.6	2125.6	2100.0	223.5	0	0	-100	1407	345	506	0.6	0.6	57.1	55.3	.21	3.05	3	.66	.90	11.1	0.6	14.1	45.2	.12	612
D * 19:16	2127.8	2126.5	2100.0	149.3	6.4	82	900	1586	479	488	0.6	0.6	57.2	63.9	.21	.21	3	.70	.90	10.7	0.6	13.9	18.9	.13	1466
D * 19:17	2130.2	2129.3	2100.0	400.9	7.8	79	900	1591	483	490	0.6	0.6	57.1	64.0	.21	.22	3	.51	.90	8.6	0.6	13.0	21.7	.14	1278
D * 19:17	2132.6	2131.4	2100.0	255.6	6.0	85	900	1591	480	488	0.6	0.6	57.2	63.9	.21	.21	4	.58	.90	8.6	0.6	13.0	23.8	.14	1164
D * 19:18	2135.2	2133.1	2100.0	41.4	8.4	89	900	1610	489	492	0.6	0.6	57.2	64.0	.20	.21	3	.94	.90	8.6	0.6	13.0	25.5	.15	1090
D * 19:18	2137.6	2137.6	2100.0	206.0	8.6	92	1000	1610	473	486	0.6	0.6	57.2	64.1	.21	.21	3	.66	.90	11.2	0.6	14.2	30.0	.16	929
D * 19:19	2140.0	2139.7	2100.0	394.7	7.8	93	900	1610	483	488	0.6	0.6	57.2	64.2	.21	.21	3	.65	.90	11.2	0.6	14.2	32.5	.17	858
D * 19:19	2143.4	2143.1	2100.0	481.1	9.0	91	1000	1610	483	482	0.6	0.6	57.1	64.2	.21	.21	3	.50	.90	8.6	0.6	13.0	35.5	.18	784
D * 19:20	2145.0	2144.4	2100.0	326.1	9.0	92	900	1615	488	486	0.6	0.6	57.2	64.2	.20	.21	3	.58	.90	8.6	0.6	13.0	36.8	.18	758
D * 19:20	2147.9	2147.9	2100.0	538.5	9.6	95	1000	1615	487	484	0.6	0.6	57.2	64.4	.20	.21	3	.49	.90	8.6	0.6	13.0	40.3	.19	693
D * 19:21	2150.0	2149.4	2100.0	131.6	10.0	91	900	1615	481	484	0.6	0.6	57.2	64.4	.20	.21	3	.78	.90	9.8	0.6	13.6	41.8	.21	669
D * 19:22	2153.4	2152.3	2100.0	439.5	8.6	92	1000	1620	483	482	0.6	0.6	57.2	64.4	.21	.21	3	.51	.90	8.6	0.6	13.0	44.7	.22	627
D * 19:22	2155.6	2155.4	2100.0	708.4	10.6	91	900	1620	479	482	0.6	0.6	57.2	64.4	.21	.21	3	.43	.90	8.6	0.6	13.0	47.8	.22	586
D * 19:35	2157.6	2157.1	2100.0	74.6	12.4	88	1000	1596	473	474	0.6	0.6	57.2	63.6	.21	.22	3	.94	.90	8.6	0.6	13.0	49.5	.24	568
D * 19:35	2160.7	2159.5	2100.0	558.4	10.5	87	900	1601	475	476	0.6	0.6	57.2	63.5	.21	.21	4	.47	.90	8.6	0.6	13.0	51.9	.25	542
D * 19:36	2162.7	2162.1	2100.0	297.3	9.7	89	900	1606	480	472	0.6	0.6	57.2	63.4	.21	.21	3	.61	.90	11.6	0.6	14.4	54.5	.26	517
D * 19:36	2165.6	2165.3	2100.0	307.8	9.3	90	900	1610	480	474	0.6	0.6	57.2	63.4	.20	.22	4	.58	.90	8.6	0.6	13.0	57.7	.27	488
D * 19:37	2167.8	2166.8	2100.0	370.3	8.1	88	900	1610	479	474	0.6	0.6	57.2	63.4	.21	.22	4	.55	.90	8.6	0.6	13.0	59.2	.27	477
D * 19:37	2170.8	2170.7	2100.0	299.9	8.9	95	900	1610	479	474	0.6	0.6	57.1	63.6	.21	.21	4	.59	.90	8.6	0.6	13.0	63.1	.28	448
D * 19:38	2172.7	2172.2	2100.0	116.0	10.5	88	1000	1610	478	478	0.6	0.6	57.2	63.8	.21	.22	4	.85	.90	8.6	0.6	13.0	64.6	.30	438
D * 19:39	2175.3	2175.4	2100.0	199.6	10.3	91	900	1610	479	468	0.6	0.6	57.2	63.8	.20	.21	4	.67	.90	10.8	0.6	14.0	67.8	.31	419
D * 19:42	2178.0	2177.9	2100.0	56.1	14.6	86	1100	1615	478	468	0.6	0.6	57.2	64.1	.21	.21	4	1.01	.90	8.6	0.6	13.0	70.3	.35	406
D * 19:56	2187.6	2187.5	2100.0	382.1	4.7	87	1000	1480	458	490	0.6	0.6	57.1	64.0	.21	.21	4	.44	.90	8.6	0.6	13.0	79.9	.30	358
D * 19:57	2190.7	2190.4	2115.0	173.9	2.4	90	1000	1581	474	486	0.6	0.6	57.1	63.6	.21	.21	4	.46	.90	8.6	0.6	13.0	82.8	.41	346
D * 19:58	2193.0	2192.5	2115.0	352.6	4.2	91	1000	1586	477	482	0.6	0.6	57.1	63.4	.21	.21	4	.47	.90	8.6	0.6	13.0	84.9	.41	338
D * 19:59	2195.1	2194.2	2120.0	119.2	9.0	87	1000	1586	472	478	0.6	0.6	57.1	63.3	.21	.21	4	.80	.90	8.6	0.6	13.0	86.6	.42	332
D * 20: 0	2197.8	2197.1	2138.0	183.6	2.0	86	1000	1586	479	474	0.6	0.6	57.1	63.4	.21	.22	4	.47	.90	8.6	0.6	13.0	89.5	.44	322
D * 20: 2	2200.8	2200.3	2140.0	186.5	10.9	86	1000	1586	473	474	0.6	0.6	57.1	63.8	.21	.21	3	.73	.90	10.5	0.6	13.9	92.7	.46	312
D * 20: 2	2205.7	2205.3	2140.0	1320.	7.3	89	1000	1591	469	470	0.6	0.6	57.1	63.8	.21	.21	3	.25	.90	8.6	0.6	13.0	97.7	.47	296
D * 20: 3	2210.2	2208.8	2140.0	664.7	1.5	88	900	1591	479	468	0.6	0.6	57.1	63.8	.21	.21	3	.80	.90	8.6	0.6	13.0	102.6	.48	282
D * 20: 4	2214.0	2214.0	2140.0	711.1	3	89	900	1596	469	468	0.6	0.6	57.1	64.0	.21	.21	3	.18	.90	8.6	0.6	13.0	106.4	.48	273
D * 20: 4	2216.7	2216.3	2140.0	230.0	1.2	91	900	1601	473	462	0.6	0.6	57.1	64.0	.21	.21	3	.80	.90	8.6	0.6	13.0	108.7	.49	267
D * 20: 4	2217.6	2217.2	2140.0	453.2	0.1	87	500	1591	473	464	0.6	0.6	57.1	64.0	.21	.21	4	.80	.90	8.6	0.6	13.0	109.6	.49	265
D * 20:28	2221.5	2220.5	2155.0	1169.	0.9	93	1000	1620	500	500	0.6	0.6	56.8	63.6	.22	.21	3	.29	.90	8.6	0.6	13.0	112.9	.63	262
D * 20:28	2223.7	2223.5	2155.0	365.7	1.5	91	1000	1625	495	500	0.6	0.6	56.8	63.7	.22	.21	3	.33	.90	8.6	0.6	13.0	115.9	.64	255
D * 20:28	2226.8	2225.3	2155.0	488.3	1.3	91	900	1630	494	498	0.6	0.6	56.9	63.8	.23	.21	3	.80	.91	8.6	0.6	13.0	117.7	.64	251

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