

* BIT # 28 SMITH F2 BIT DIAMETER : 8.50 inch NOZZ 14/14/ 0
 MUD RHEOLOGICAL PARAMETERS : PV = 16 YP = 11 GEL = 3 *

* TIME *	* DEPTHS *			* DRILLING PARAMETERS *					* MUD PARAMETERS *				* GAS *				* OVERPRESSURE SURVEY *				* ACCUMULATED ON BIT *				
	* MEASURED *	* VERTCL *	* LAGGED *	* ROP *	* WOB *	* RPM *	* TORQ *	* PRESS *	* FLOW *	* PIT *	* DENSITY *	* TEMPERATURE *		* RESISTIVITY *		* DCS *	* NORM *	* PF *	* ECD *	* FRAC *	* FEET *	* TIME *	* COST *		
* Hr:Am *	* feet *	* feet *	* feet *	* ft/h *	* klbs *	* rpm *	* ftlb *	* psi *	* gpm *	* bbls *	* ppq *	* IN *	* OUT *	* IN *	* OUT *	* unit *	* ppq *	* ppq *	* ppq *	* ppq *	* feet *	* Dhr *	* \$ *		
D * 0:30	10246.2	10230.1	10227.0	30.2	36.3	61	3200	1614	298	689	9.5	9.3	79.4	95.3	1.20	1.27	7	1.40	2.12	9.7	9.7	16.8	50.1	3.37	915
D * 0:35	10247.5	10230.1	10228.0	30.2	40.4	61	3100	1614	303	607	9.5	9.3	79.6	95.7	1.20	1.20	7	1.40	2.12	9.7	9.7	16.8	50.1	3.45	915
D * 0:39	10248.1	10240.1	10228.0	8.9	39.1	61	3000	1614	307	605	9.5	9.3	79.7	95.0	1.20	1.20	7	1.79	2.13	9.7	9.7	16.8	52.1	3.52	890
D * 0:45	10249.1	10241.1	10230.0	10.5	40.4	62	3100	1614	303	605	9.5	9.3	79.9	95.4	1.20	1.29	7	1.73	2.13	9.7	9.7	16.8	53.1	3.62	880
D * 0:52	10250.2	10242.2	10231.0	8.7	38.4	61	3100	1614	303	611	9.5	9.4	80.1	96.2	1.20	1.27	7	1.79	2.13	9.7	9.7	16.8	54.2	3.74	871
D * 0:58	10251.0	10243.0	10232.0	9.1	39.0	61	3100	1610	303	611	9.5	9.4	80.3	96.6	1.20	1.31	15	1.77	2.13	9.7	9.7	16.8	55.0	3.83	864
D * 1: 2	10252.0	10244.0	10234.0	13.1	37.5	61	3100	1609	299	609	9.5	9.3	80.3	96.0	1.20	1.30	7	1.64	2.13	9.7	9.7	16.8	56.0	3.91	853
D * 1: 6	10253.0	10245.0	10235.0	15.0	36.6	59	3000	1459	290	615	9.6	9.4	80.4	96.5	1.20	1.30	6	1.60	2.13	9.7	9.7	16.8	57.0	3.97	842
D * 1:10	10254.0	10245.0	10236.0	15.0	36.9	59	3100	1576	298	619	9.6	9.5	80.6	96.2	1.20	1.31	7	1.60	2.13	9.7	9.7	16.8	57.0	4.03	842
D * 1:13	10255.0	10247.0	10237.0	16.3	41.5	60	3100	1632	303	617	9.6	9.5	80.5	96.6	1.20	1.29	7	1.57	2.13	9.7	9.7	16.8	59.0	4.09	821
D * 1:17	10256.2	10247.0	10237.0	16.3	35.8	58	3100	1632	303	615	9.5	9.5	80.7	96.6	1.20	1.30	7	1.57	2.13	9.7	9.7	16.8	59.0	4.15	821
D * 1:22	10257.0	10249.0	10237.0	10.5	41.1	61	2900	1632	303	613	9.5	9.5	80.8	96.0	1.20	1.29	7	1.70	2.13	9.7	9.7	16.9	61.0	4.23	803
D * 1:26	10258.1	10250.1	10238.0	17.5	36.1	60	3000	1628	303	611	9.5	9.5	80.9	96.8	1.29	1.30	7	1.53	2.13	9.7	9.7	16.9	62.1	4.30	792
D * 1:30	10259.2	10251.1	10239.0	14.6	35.4	61	2900	1632	307	611	9.5	9.5	81.0	96.7	1.29	1.30	7	1.59	2.13	9.7	9.7	16.9	63.1	4.37	784
D * 1:35	10260.0	10252.0	10239.0	11.7	39.0	58	3000	1632	303	609	9.5	9.5	81.1	97.2	1.29	1.29	7	1.68	2.13	9.7	9.7	16.9	64.0	4.44	777
D * 1:40	10261.1	10252.0	10240.0	11.7	37.6	58	3000	1637	303	607	9.5	9.5	81.2	97.0	1.29	1.30	7	1.68	2.13	9.7	9.7	16.9	64.0	4.52	777
D * 1:44	10262.0	10254.0	10241.0	12.7	38.2	61	3000	1628	303	607	9.5	9.5	81.2	96.7	1.29	1.30	7	1.65	2.13	9.7	9.7	16.9	66.0	4.60	762
D * 2:22	10263.1	10255.0	10250.0	10.5	32.5	60	2900	1656	307	589	9.5	9.4	81.5	97.4	1.29	1.27	7	1.68	2.13	9.7	9.7	16.9	67.1	4.71	756
D * 2:27	10264.7	10255.0	10250.0	10.5	35.3	62	3000	1661	307	589	9.5	9.4	81.5	97.4	1.29	1.29	7	1.68	2.13	9.7	9.7	16.9	67.1	4.77	756
D * 2:28	10265.2	10257.2	10251.0	13.7	37.5	61	3000	1656	307	587	9.5	9.4	81.5	97.4	1.29	1.20	7	1.61	2.13	9.7	9.7	16.9	69.2	4.79	737
D * 2:32	10266.1	10258.0	10251.0	15.4	40.1	59	3000	1637	307	589	9.5	9.4	81.6	97.9	1.29	1.20	7	1.63	2.13	9.7	9.7	16.9	70.1	4.85	731
D * 2:35	10267.6	10259.5	10252.0	27.7	40.2	61	3000	1651	307	589	9.5	9.4	81.6	96.7	1.29	1.30	7	1.42	2.13	9.7	9.7	16.9	71.6	4.90	719
D * 2:37	10268.0	10260.0	10252.0	13.0	37.8	59	3000	1647	306	589	9.5	9.4	81.7	96.8	1.29	1.29	7	1.63	2.13	9.7	9.7	16.9	72.0	4.93	716
D * 2:39	10269.4	10261.1	10253.0	44.2	36.4	59	3000	1647	303	589	9.5	9.4	81.7	97.3	1.29	1.20	7	1.25	2.13	9.7	9.7	16.9	73.1	4.94	706
D * 2:42	10270.1	10261.1	10254.0	44.2	38.2	58	2900	1642	307	591	9.5	9.4	81.8	97.1	1.29	1.20	7	1.25	2.13	9.7	9.7	16.9	73.1	5.01	706
D * 2:43	10271.0	10263.0	10254.0	65.2	36.4	63	3100	1642	303	589	9.5	9.4	81.8	97.0	1.20	1.29	7	1.05	2.13	9.7	9.7	16.9	75.0	5.02	691
D * 2:47	10272.1	10264.1	10256.0	14.8	43.1	60	2900	1647	307	589	9.5	9.4	81.9	97.1	1.29	1.29	7	1.59	2.13	9.7	9.7	16.9	76.1	5.09	685
D * 2:49	10273.0	10265.0	10256.0	56.9	42.5	59	2900	1642	303	591	9.5	9.4	81.8	97.6	1.20	1.27	7	1.23	2.13	9.7	9.7	16.9	77.0	5.11	678
D * 2:56	10274.0	10266.0	10257.0	8.2	40.7	59	3000	1642	303	593	9.5	9.4	82.0	97.4	1.29	1.29	7	1.82	2.13	9.7	9.7	16.9	78.0	5.23	675
D * 2:57	10275.3	10267.2	10258.0	62.9	41.9	60	3000	1642	307	593	9.5	9.4	82.0	97.3	1.29	1.20	7	1.16	2.13	9.7	9.7	16.9	79.3	5.25	665
D * 2:59	10276.0	10267.2	10258.0	62.9	38.6	59	2900	1647	303	595	9.5	9.4	82.0	97.6	1.29	1.20	7	1.16	2.13	9.7	9.7	16.9	79.3	5.28	665
D * 3: 3	10277.4	10269.3	10259.0	23.4	38.6	58	2900	1647	306	595	9.5	9.4	82.0	98.0	1.29	1.20	7	1.45	2.13	9.7	9.7	16.9	81.3	5.34	652
D * 3: 4	10278.1	10270.1	10259.0	27.5	36.2	60	3000	1642	307	597	9.5	9.4	82.0	98.3	1.20	1.20	7	1.37	2.13	9.7	9.7	16.9	82.1	5.37	647
D * 3: 6	10279.3	10271.2	10260.0	35.9	37.8	59	3000	1647	307	595	9.5	9.4	82.1	98.6	1.29	1.20	7	1.31	2.13	9.7	9.7	16.9	83.3	5.40	639
D * 3:10	10280.1	10271.2	10260.0	35.9	38.9	58	2700	1675	307	605	9.5	9.4	82.2	98.6	1.20	1.20	7	1.31	2.13	9.7	9.7	16.9	83.3	5.42	639
D * 3:12	10281.2	10273.1	10261.0	26.0	40.3	59	3200	1698	312	601	9.5	9.4	82.1	97.8	1.20	1.29	7	1.42	2.13	9.7	9.7	16.9	85.2	5.47	628
D * 3:14	10282.1	10274.0	10261.0	26.6	37.0	59	3300	1693	312	597	9.5	9.4	82.1	97.7	1.29	1.29	7	1.41	2.13	9.7	9.7	16.9	86.1	5.50	623
D * 3:16	10283.0	10275.0	10261.0	40.8	38.8	58	3000	1675	307	595	9.5	9.4	82.3	97.9	1.20	1.20	7	1.29	2.13	9.7	9.7	16.9	87.0	5.53	617
D * 3:21	10284.2	10276.1	10262.0	31.5	38.5	57	2700	1647	303	603	9.5	9.4	82.2	97.7	1.20	1.29	7	1.29	2.13	9.7	9.7	16.9	88.2	5.56	611
D * 3:28	10285.0	10277.0	10262.0	8.3	40.4	59	3000	1665	303	595	9.5	9.4	82.2	98.3	1.20	1.30	7	1.78	2.13	9.7	9.7	16.9	89.0	5.67	609
D * 3:36	10286.0	10277.0	10262.0	8.3	39.6	58	3000	1661	303	593	9.5	9.4	82.3	98.4	1.29	1.29	7	1.78	2.13	9.7	9.7	16.9	89.0	5.80	609
D * 3:45	10287.2	10279.2	10262.0	8.3	41.6	60	3000	1656	307	593	9.5	9.4	82.5	98.7	1.20	1.20	7	1.79	2.13	9.7	9.7	16.9	91.2	5.95	606
D * 3:48	10288.0	10279.2	10262.0	8.3	37.8	59	3000	1661	303	591	9.5	9.4	82.6	98.6	1.20	1.29	7	1.79	2.13	9.7	9.7	16.9	91.2	6.00	606
D * 3:51	10289.1	10281.0	10262.0	10.1	36.2	58	3100	1656	307	593	9.5	9.4	82.6	99.1	1.20	1.30	7	1.53	2.13	9.7	9.7	16.9	93.1	6.06	598
D * 3:55	10290.2	10282.2	10263.0	16.9	38.2	58	3100	1656	307	593	9.5	9.4	82.7	98.7	1.29	1.30	7	1.54	2.13	9.7	9.7	16.9	94.2	6.12	593
D * 3:58	10291.1	10283.1	10265.0	18.0	38.2	59	3000	1656	307	593	9.5	9.4	82.7	99.1	1.20	1.29	7	1.52	2.13	9.7	9.7	16.9	95.1	6.17	590
D * 4: 2	10292.1	10283.1	10266.0	18.0	36.0	59	3100	1651	303	593	9.5	9.4	82.7	98.7	1.20	1.29	7	1.52	2.13	9.7	9.7	16.9	95.1	6.23	590
D * 4:11	10293.0	10285.0	10270.0	6.4	35.5	62	3200	1642	307	591	9.5	9.4	83.0	98.8	1.27	1.29	7	1.86	2.13	10.3	9.7	17.0	97.0	6.30	586
D * 4:17	10294.0	10286.0	10271.0	10.1	40.0	59	3000	1684	303	593	9.5	9.4	83.0	98.5	1.20	1.29	7	1.65	2.13	9.7	9.7	16.9	98.0	6.40	583