



6/16/2011

Pile #023 TAR SANDS REFINERY, AB

S/N 80804

Calibration Date 03/12/2011

GPS CO-ORDS N/A

Time	Torque (ft-lbs)	Angle	Depth (ft)	Average Angle	Shaft RPM
3:09:30 PM	558	38.6	0	37.710	26
3:09:35 PM	447	39.1	0		26
3:09:40 PM	470	38.8	1		26
3:09:45 PM	611	36.6	1		26
3:09:50 PM	641	33.6	2		26
3:09:55 PM	637	37.0	2		26
3:10:00 PM	596	37.8	3		26
3:10:05 PM	603	36.5	3		26
3:10:11 PM	577	35.5	3		26
3:10:16 PM	596	39.4	3		26
3:10:21 PM	971	39.4	4		26
3:10:26 PM	823	37.7	4		26
3:10:31 PM	1028	37.6	4		26
3:10:36 PM	1074	41.4	4		26
3:10:41 PM	732	39.0	5		26
3:10:46 PM	945	37.6	5		26
3:10:51 PM	930	40.9	5		26
3:10:56 PM	979	39.1	5		26
3:11:01 PM	975	35.8	6		26
3:11:07 PM	1070	35.1	6		26
3:11:12 PM	1055	36.6	6		26
3:11:17 PM	1043	35.8	6		26
3:11:22 PM	151	36.8	6		3
3:11:27 PM	51	36.9	7		0
3:15:18 PM	1047	36.1	7		23
3:15:23 PM	1006	35.1	7		26
3:15:28 PM	1385	34.1	7		26
3:15:33 PM	1309	38.0	7		26
3:15:38 PM	1218	35.6	7		26
3:15:44 PM	1359	34.4	7		26
3:15:49 PM	1135	38.8	7		26
3:15:54 PM	1290	37.1	7		26
3:15:59 PM	1305	37.5	7		26
3:16:04 PM	1461	38.8	7		26
3:16:09 PM	1484	35.7	7		26

3:16:14 PM	1598	40.4	7	26
3:16:19 PM	1636	38.9	7	26
3:16:24 PM	1621	37.8	10	26
3:16:29 PM	1484	38.5	10	26
3:16:34 PM	1537	35.6	10	26
3:16:40 PM	1507	37.9	10	26
3:16:45 PM	1400	34.6	10	26
3:16:50 PM	1404	37.6	10	26
3:16:55 PM	1499	35.4	10	26
3:17:00 PM	1594	39.0	10	26
3:17:05 PM	1476	36.9	10	26
3:17:10 PM	1708	40.2	10	26
3:17:15 PM	1552	37.7	10	26
3:17:20 PM	1465	37.3	10	26
3:17:25 PM	1696	38.7	10	26
3:17:30 PM	1647	36.8	10	26
3:17:36 PM	2122	39.0	10	26
3:17:41 PM	2201	36.2	10	26
3:17:46 PM	2346	40.2	10	26
3:17:51 PM	2304	36.4	10	26
3:17:56 PM	2141	37.2	15	26
3:18:01 PM	2198	37.1	15	26
3:18:06 PM	2198	34.3	15	26
3:18:11 PM	2292	39.7	15	26
3:18:16 PM	2270	38.3	15	26
3:18:21 PM	2338	40.1	15	26
3:18:26 PM	2262	39.2	15	26
3:18:31 PM	2160	36.8	15	26
3:18:36 PM	2258	38.2	15	26
3:18:41 PM	174	39.0	17	0
3:21:10 PM	2463	38.3	17	26
3:21:15 PM	2520	36.6	17	26
3:21:20 PM	2619	34.7	17	26
3:21:25 PM	2737	37.5	17	26
3:21:30 PM	3002	36.5	17	26
3:21:36 PM	2866	34.6	17	26
3:21:41 PM	2972	37.4	17	26
3:21:46 PM	2873	33.8	17	26
3:21:51 PM	2790	38.7	17	26
3:21:56 PM	2957	35.9	17	26
3:22:01 PM	3116	38.4	17	26
3:22:06 PM	3048	37.8	17	26
3:22:11 PM	2790	36.0	17	26
3:22:16 PM	2866	38.9	17	26
3:22:21 PM	2608	36.0	17	26
3:22:26 PM	2740	39.1	17	26
3:22:31 PM	2725	36.6	17	26

3:22:36 PM	2976	38.5	17	26
3:22:41 PM	3048	35.9	17	26
3:22:47 PM	3340	38.5	17	26
3:22:52 PM	3959	35.6	17	26
3:22:57 PM	3898	38.7	17	26
3:23:02 PM	4229	36.2	17	26
3:23:07 PM	4354	38.9	17	26
3:23:12 PM	3568	36.8	25	26
3:23:17 PM	3849	39.0	25	26
3:23:22 PM	4540	36.3	25	26
3:23:27 PM	5083	39.1	25	26
3:23:32 PM	5052	36.7	25	26
3:23:38 PM	4961	39.2	25	26
3:23:43 PM	4889	38.1	25	26
3:23:48 PM	4878	37.3	25	26
3:23:53 PM	5026	38.1	25	26
3:23:58 PM	4369	36.6	25	26
3:24:03 PM	5428	39.5	25	26
3:24:08 PM	5402	39.4	25	26
3:24:14 PM	5060	36.7	25	26
3:24:19 PM	5459	39.3	25	26
3:24:24 PM	5701	39.5	25	26
3:24:29 PM	4547	36.8	25	26
3:27:08 PM	5257	38.5	27	26
3:27:13 PM	5109	36.6	27	26
3:27:18 PM	5193	36.2	27	26
3:27:23 PM	5326	36.2	27	26
3:27:28 PM	5432	36.7	27	26
3:27:33 PM	5633	38.5	27	26
3:27:38 PM	5846	38.8	27	26
3:27:43 PM	5629	39.2	29	26
3:27:49 PM	6051	38.8	29	26
3:27:54 PM	5914	38.8	29	26
3:27:59 PM	5781	37.5	29	26
3:28:04 PM	5109	36.3	29	26
3:28:09 PM	5159	37.5	29	26
3:28:14 PM	4559	37.2	30	26
3:28:19 PM	4160	38.5	30	26
3:28:24 PM	4221	37.9	30	26
3:28:29 PM	4521	39.3	30	26
3:28:34 PM	5402	39.4	30	26
3:28:39 PM	5785	39.1	31	26
3:28:44 PM	6104	38.3	31	26
3:28:49 PM	5937	36.5	31	26
3:28:55 PM	5478	36.2	31	26
3:29:00 PM	5299	36.9	31	26
3:29:05 PM	5310	35.7	31	26

3:29:10 PM	5166	35.8	32	26
3:29:15 PM	5155	37.4	32	26
3:29:20 PM	5121	37.6	32	26
3:29:26 PM	5276	38.6	32	26
3:29:31 PM	5455	38.5	32	26
3:29:36 PM	5489	38.5	32	26
3:29:41 PM	5098	39.5	33	26
3:29:46 PM	4889	39.5	33	26
3:29:51 PM	4988	37.4	33	26
3:29:56 PM	4923	36.0	33	26
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3:30:06 PM	4213	36.4	33	26
3:30:11 PM	3978	36.2	34	26
3:30:16 PM	4012	36.8	34	26
3:30:21 PM	4676	37.4	34	26
3:30:26 PM	5227	38.3	34	26
3:30:32 PM	5698	38.5	34	26
3:30:37 PM	5166	39.3	34	26
3:30:42 PM	5003	39.0	35	26
3:30:47 PM	4741	38.5	35	26
3:30:52 PM	4248	37.2	35	26
3:30:57 PM	4175	37.4	35	26
3:31:02 PM	4103	37.5	35	26
3:31:07 PM	4156	36.0	35	26
3:31:12 PM	4065	36.0	36	26
3:31:18 PM	4612	37.0	36	26
3:31:23 PM	4768	38.1	36	26
3:31:28 PM	5846	38.9	36	26
3:31:33 PM	5508	38.2	37	26
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3:35:27 PM	5656	37.1	37	26
3:35:32 PM	5944	36.4	37	26
3:35:37 PM	5842	36.7	37	26
3:35:42 PM	5724	36.2	37	26
3:35:47 PM	5405	37.7	37	26
3:35:52 PM	5007	38.2	37	26
3:35:57 PM	4771	38.7	38	26
3:36:03 PM	4946	38.5	38	26
3:36:08 PM	4730	38.0	38	26
3:36:13 PM	4707	39.0	38	26
3:36:18 PM	4988	38.4	39	26
3:36:23 PM	4900	38.2	39	26
3:36:28 PM	4954	38.0	39	26
3:36:33 PM	4916	38.0	39	26
3:36:38 PM	4642	37.6	40	26
3:36:43 PM	4547	37.6	40	26
3:36:49 PM	4339	37.3	40	26

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3:36:59 PM	4437	38.9	40	26
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3:37:09 PM	5200	39.4	40	26
3:37:14 PM	5891	39.5	40	26
3:37:19 PM	5155	39.2	41	26
3:37:24 PM	4680	38.3	41	26
3:37:29 PM	4126	38.1	41	26
3:37:34 PM	3913	38.0	41	26
3:37:39 PM	4164	38.3	41	26
3:37:44 PM	3845	36.8	42	26
3:37:50 PM	4191	38.0	42	26
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3:38:00 PM	4608	38.5	42	26
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3:38:10 PM	5534	38.7	42	26
3:38:15 PM	4969	38.3	43	26
3:38:20 PM	4916	38.6	43	26
3:38:25 PM	4198	37.8	43	26
3:38:31 PM	4198	38.6	43	26
3:38:36 PM	4388	37.8	43	26
3:38:41 PM	4547	37.8	43	26
3:38:46 PM	4346	37.3	44	26
3:38:51 PM	4726	38.4	44	26
3:38:56 PM	5212	38.6	44	26
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3:39:06 PM	5777	39.5	44	26
3:39:11 PM	5208	39.4	45	26
3:39:16 PM	4714	38.6	45	26
3:39:21 PM	4415	37.6	45	26
3:39:26 PM	4384	37.2	45	26
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3:39:36 PM	3913	37.4	46	26
3:39:41 PM	3948	38.6	46	26
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3:39:52 PM	4323	39.1	46	26
3:39:57 PM	4612	39.7	46	26
3:40:02 PM	4388	39.0	47	26
3:40:07 PM	4483	38.9	47	26
3:42:40 PM	6	38.7	47	0
3:42:45 PM	4893	36.8	47	26
3:42:50 PM	4487	36.4	47	26
3:42:55 PM	4130	35.7	47	26
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3:43:05 PM	3811	36.7	47	26
3:43:10 PM	4039	37.1	48	26
3:43:15 PM	4449	37.5	48	26

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3:43:25 PM	5242	39.1	49	26
3:43:30 PM	463	38.3	49	3
3:43:36 PM	5227	39.7	49	26
3:43:41 PM	4771	37.9	49	26
3:43:46 PM	3978	37.0	49	26
3:43:51 PM	3940	39.6	49	26
3:43:56 PM	3887	39.4	50	26
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3:44:06 PM	3834	38.1	50	26
3:44:11 PM	4168	40.6	51	26
3:44:16 PM	4221	37.9	51	26
3:44:21 PM	4506	39.0	51	26
3:44:26 PM	6074	39.1	51	26
3:44:32 PM	5755	38.8	51	26
3:44:37 PM	5831	37.0	52	26
3:44:42 PM	6362	36.1	52	26
3:44:47 PM	6093	37.6	52	26
3:44:52 PM	6142	38.2	52	26
3:44:57 PM	5614	40.1	52	26
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3:45:08 PM	5090	40.8	53	26
3:45:13 PM	4703	39.5	53	26
3:45:18 PM	4737	39.0	53	26
3:45:23 PM	3708	37.7	53	26
3:45:28 PM	3481	36.6	53	26
3:45:33 PM	3390	36.6	53	26
3:45:38 PM	3215	36.4	54	26
3:45:43 PM	3458	36.9	54	26
3:45:48 PM	3902	36.9	54	26
3:45:53 PM	4346	37.1	54	26
3:45:58 PM	5212	39.2	54	26
3:46:03 PM	5231	39.9	54	26
3:46:08 PM	5045	39.6	55	26
3:46:14 PM	5629	39.6	55	26
3:46:19 PM	5929	39.0	55	26
3:46:24 PM	5755	37.4	55	26
3:46:29 PM	5159	37.4	56	26
3:46:34 PM	5732	38.5	56	26
3:46:39 PM	6875	40.0	56	26
3:46:44 PM	6909	41.1	56	26
3:46:49 PM	7231	40.4	56	26
3:49:08 PM	155	38.3	56	0
3:49:13 PM	7527	37.9	56	26
3:49:18 PM	6510	38.4	57	26
3:49:23 PM	6256	37.8	57	26
3:49:28 PM	6495	36.3	57	26

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3:49:38 PM	5189	37.0	57	26
3:49:43 PM	5102	37.0	57	26
3:49:49 PM	5090	38.0	58	26
3:49:54 PM	4445	37.8	58	26
3:49:59 PM	4828	39.1	58	26
3:50:04 PM	5470	39.3	58	26
3:50:09 PM	5113	39.3	59	26
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3:50:19 PM	5261	37.1	59	26
3:50:24 PM	4646	37.2	59	26
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3:50:34 PM	4536	38.4	60	26
3:50:39 PM	5052	38.9	60	26
3:50:44 PM	5683	39.6	60	26
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3:50:55 PM	6089	39.9	60	26
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3:51:05 PM	5265	38.1	61	26
3:51:10 PM	4726	37.4	61	26
3:51:15 PM	5185	38.0	61	26
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3:51:25 PM	4718	39.6	61	26
3:51:30 PM	4058	40.0	62	26
3:51:35 PM	3800	40.3	62	26
3:51:40 PM	3762	40.3	62	26
3:51:45 PM	3845	39.3	62	26
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3:52:17 PM	5360	39.6	63	26
3:52:22 PM	5944	39.6	64	26
3:52:27 PM	6134	39.7	64	26
3:52:32 PM	6104	39.1	64	26
3:52:37 PM	5812	38.5	64	26
3:52:42 PM	5440	37.2	64	26
3:52:47 PM	4597	37.5	64	26
3:52:52 PM	4680	38.4	65	26
3:52:57 PM	4733	39.0	65	26
3:53:03 PM	4775	39.9	65	26
3:53:08 PM	4764	39.5	65	26
3:53:13 PM	4255	39.8	66	26
3:53:18 PM	3857	39.4	66	26
3:53:23 PM	3845	38.7	66	26
3:53:28 PM	3435	37.8	66	26

3:53:33 PM	3788	36.6	66	26
3:53:38 PM	4415	36.9	67	26
4:00:42 PM	4988	38.3	67	26
4:00:47 PM	4832	38.5	67	26
4:00:53 PM	577	36.5	67	3
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4:01:03 PM	4779	39.0	67	26
4:01:08 PM	5079	38.4	67	26
4:01:13 PM	4874	35.8	68	26
4:01:18 PM	5743	37.3	68	26
4:01:23 PM	5588	35.2	68	26
4:01:29 PM	5572	35.1	68	26
4:01:34 PM	5193	34.0	69	26
4:01:39 PM	5200	34.4	69	26
4:01:44 PM	4779	35.0	69	26
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4:01:55 PM	4650	36.4	69	26
4:02:00 PM	4437	37.5	69	26
4:02:05 PM	3997	37.6	70	26
4:02:10 PM	447	37.7	70	0
4:02:15 PM	4084	35.8	70	26
4:02:20 PM	5356	36.8	70	26
4:02:25 PM	4479	35.1	70	26
4:02:31 PM	4855	36.8	71	26
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4:03:37 PM	4650	38.6	73	26
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4:04:08 PM	4263	37.0	74	26
4:04:13 PM	4714	35.7	75	26
4:04:19 PM	4809	35.2	75	26
4:04:24 PM	5155	35.7	75	26
4:04:29 PM	5329	36.4	75	26

4:04:34 PM	5785	38.2	75	26
4:04:39 PM	5812	38.1	75	26
4:04:44 PM	5961	37.3	75	26
4:04:49 PM	6047	36.7	75	26
4:04:55 PM	6518	37.4	75	26
4:05:00 PM	6313	37.5	75	26
4:05:05 PM	6465	39.2	75	26
4:05:10 PM	6605	39.5	75	26
4:05:15 PM	5979	38.1	77	26
4:07:22 PM	193	36.0	77	0
4:07:27 PM	5724	37.4	77	26
4:07:32 PM	5307	37.1	77	26
4:07:37 PM	5326	36.3	77	26
4:07:43 PM	5117	35.1	77	26
4:07:48 PM	5534	33.6	77	26
4:07:53 PM	5440	33.2	78	26
4:07:58 PM	5345	34.0	78	26
4:08:03 PM	5242	35.5	78	26
4:08:08 PM	5496	34.9	78	26
4:08:13 PM	6480	34.7	79	26
4:08:18 PM	6301	34.2	79	26
4:08:23 PM	6138	32.8	79	26
4:08:28 PM	6514	33.1	79	26
4:08:33 PM	7281	34.1	79	26
4:08:38 PM	7869	35.2	79	26
4:08:44 PM	8279	36.0	79	26
4:08:49 PM	8127	35.7	79	26
4:08:54 PM	8571	33.9	79	26
4:08:59 PM	8036	33.3	80	26
4:09:04 PM	7584	36.0	80	26
4:09:10 PM	6928	35.4	81	26
4:09:15 PM	6912	39.6	81	26
4:09:20 PM	6734	38.3	81	26
4:09:25 PM	6400	37.4	82	26
4:09:30 PM	6472	36.9	82	26
4:09:35 PM	6320	37.7	82	26
4:09:40 PM	6328	38.1	82	26
4:09:45 PM	6624	38.6	82	26
4:09:50 PM	6859	38.0	82	26
4:09:56 PM	6628	35.8	82	26
4:10:01 PM	6373	35.4	83	26
4:10:06 PM	6859	36.5	83	26
4:10:11 PM	7326	38.3	83	26
4:10:16 PM	7611	39.6	83	26
4:10:21 PM	8526	39.9	84	26
4:10:26 PM	8606	38.5	84	26
4:10:31 PM	8712	42.9	84	26

4:10:36 PM	8690	39.8	84	26
4:10:41 PM	8512	38.8	84	26
4:10:46 PM	8435	37.5	84	26
4:10:51 PM	9137	37.4	84	26
4:10:56 PM	9042	37.2	84	26
4:11:01 PM	9460	39.1	84	26
4:11:07 PM	9126	37.7	84	26
4:11:12 PM	8355	37.9	84	26
4:11:17 PM	8609	40.4	85	26
4:11:23 PM	8712	38.0	85	26
4:11:28 PM	8787	36.2	85	26
4:11:33 PM	8841	36.3	85	26
4:11:38 PM	8917	39.4	85	26
4:11:43 PM	7941	36.8	85	26
4:11:48 PM	7900	38.4	85	26
4:11:53 PM	7383	39.0	85	26
4:11:58 PM	7235	36.9	85	26
4:12:03 PM	7607	37.1	86	26
4:12:08 PM	7858	39.0	86	26
4:12:14 PM	7304	36.9	86	26
4:12:19 PM	6829	37.5	86	26
4:12:24 PM	6613	39.2	86	26
4:12:30 PM	7045	37.4	86	26
4:12:35 PM	7421	35.8	87	26
4:17:36 PM	8456	38.8	87	26
4:17:41 PM	9581	36.0	87	26
4:17:46 PM	8989	37.2	87	26
4:17:51 PM	9316	39.4	87	26
4:17:56 PM	9399	39.3	87	26
4:18:01 PM	9281	36.7	87	26
4:18:06 PM	9763	36.9	88	26
4:18:12 PM	10177	38.5	88	26
4:18:17 PM	10485	37.8	88	26
4:18:22 PM	10124	35.8	88	26
4:18:28 PM	9995	36.2	89	26
4:18:33 PM	10120	38.1	89	26
4:18:38 PM	9946	37.6	89	26
4:18:43 PM	9748	35.7	89	26
4:18:48 PM	9285	36.3	89	26
4:18:54 PM	9319	38.2	89	26
4:18:59 PM	9259	37.9	89	26
4:19:04 PM	9224	36.5	90	26
4:19:09 PM	9031	37.1	90	26
4:19:14 PM	9388	38.6	90	26
4:19:19 PM	8773	39.4	90	26
4:19:24 PM	8484	38.5	90	26
4:19:29 PM	7782	36.2	91	26

4:19:34 PM	8336	37.2	91	26
4:19:39 PM	8989	38.7	91	26
4:19:44 PM	9604	37.6	91	26
4:19:49 PM	9642	35.7	91	26
4:19:54 PM	10105	37.8	91	26
4:20:00 PM	10485	38.4	91	26
4:20:05 PM	10170	36.4	92	26
4:20:10 PM	10052	37.7	92	26
4:20:15 PM	9961	38.6	92	26
4:20:20 PM	9987	38.7	92	26
4:20:25 PM	9712	38.2	92	26
4:20:30 PM	9688	37.4	92	26
4:20:36 PM	10211	39.1	92	26
4:20:41 PM	10348	38.0	92	26
4:20:46 PM	10044	37.6	93	26
4:20:52 PM	9779	38.8	93	26
4:20:57 PM	9391	36.0	93	26
4:21:02 PM	9745	38.7	93	26
4:21:07 PM	9547	36.5	93	26
4:21:12 PM	10158	38.4	93	26
4:21:17 PM	10314	37.1	93	26
4:21:22 PM	11578	36.2	93	26
4:21:27 PM	12186	38.2	94	26
4:21:32 PM	12391	36.4	94	26
4:21:37 PM	12412	36.2	94	26
4:21:42 PM	12641	36.5	94	26
4:21:47 PM	12941	37.4	94	26
4:21:53 PM	13332	39.3	94	26
4:21:58 PM	12565	38.0	94	26
4:22:03 PM	13746	39.9	94	26
4:22:08 PM	3382	39.6	94	1
4:22:13 PM	816	38.9	94	0
4:22:19 PM	717	38.8	94	0