

CONFIDENTIAL

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GDC 21
STANDARD SURVEY TABLE

DRIFT

CUMULATIVE

COORDINATE

STA	MEAS. DEPTH	VERT. DEPTH	ANGLE	BEARING	N S (-)	E	W
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1	0	0	0.00	N52W	0	0	0
2	212	212	0.25	N52W	0	0	0
3	486	486	0.45	N18W	2	-1	-1
4	704	704	1.00	N87W	3	-4	-4
5	925	925	1.25	S46W	2	-8	-8
6	1148	1148	2.00	S21W	-3	-11	-11
7	1336	1336	3.25	S36W	-11	-15	-15
8	1437	1436	4.00	S43W	-16	-19	-19
9	1474	1473	4.25	S28W	-18	-21	-21
10	1505	1504	4.00	S10W	-20	-22	-22
11	1536	1535	3.75	S05E	-22	-22	-22
12	1568	1567	3.25	S34E	-24	-21	-21
13	1599	1598	3.75	S54E	-26	-20	-20
14	1631	1630	4.75	S68E	-27	-18	-18
15	1697	1696	6.50	S77E	-29	-11	-11
16	1760	1758	8.50	S79E	-30	-3	-3
17	1855	1852	10.75	S82E	-33	12	12
18	1958	1953	12.00	S81E	-36	32	32
19	2083	2075	12.00	S79E	-40	58	58
20	2209	2198	12.00	S77E	-46	84	84
21	2290	2277	13.25	S82E	-49	101	101
22	2376	2361	13.50	N89E	-50	121	121
23	2471	2453	13.75	N88E	-50	143	143
24	2599	2578	13.75	N86E	-48	174	174
25	2724	2699	13.50	N87E	-46	203	203
26	2850	2822	13.50	N88E	-45	232	232
27	2998	2965	14.00	N85E	-43	268	268
28	3160	3123	13.75	N88E	-41	306	306
29	3410	3366	13.25	N90E	-40	365	365
30	3625	3575	13.75	S88E	-40	415	415
31	3841	3785	13.75	S87E	-43	466	466
32	4035	3973	13.50	S86E	-45	512	512
33	4251	4183	13.25	S84E	-50	562	562
34	4431	4359	12.50	S78E	-56	601	601
35	4648	4571	12.25	S77E	-66	647	647

MAY 03, 1984 WEIGHTING FACTOR: 0.50

SECTION PROJECTED TO AZIMUTH N90E

GDC 21
STANDARD SURVEY TABLE

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STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL
			***** ANGLE	BEARING	N S (-)	E W (-)	
36	4803	4722	11.50	S72E	-75	677	677
37	4986	4902	11.00	S70E	-86	711	711
38	5171	5084	10.25	S63E	-100	742	742
39	5285	5196	11.00	S60E	-110	761	761
40	5411	5319	11.00	S58E	-122	781	781
41	5535	5441	11.00	S52E	-136	801	801
42	5689	5592	11.25	S51E	-154	824	824
43	5814	5715	12.00	S49E	-171	843	843
44	5997	5894	12.00	S46E	-196	871	871
45	6142	6035	13.25	S42E	-219	893	893
46	6275	6165	13.75	S42E	-242	914	914
47	6415	6301	13.75	S40E	-267	936	936
48	6603	6483	14.75	S40E	-303	966	966
49	6695	6572	15.25	S36E	-321	980	980
50	6823	6695	15.50	S32E	-350	999	999
51	6986	6852	15.50	S28E	-387	1021	1021
52	7166	7026	14.50	S24E	-429	1042	1042
53	7322	7177	14.75	S18E	-466	1056	1056
54	7600	7446	14.75	S10E	-535	1073	1073
55	7823	7662	14.00	S11E	-589	1083	1083
56	8001	7835	13.75	S09E	-631	1090	1090
57	8288	8114	11.75	S11E	-694	1101	1101
58	8463	8286	12.00	S13E	-729	1109	1109
59	8709	8526	12.00	S24E	-777	1125	1125
60	8876	8690	11.25	S42E	-805	1143	1143
61	8915	8728	11.25	S42E	-811	1148	1148

MAY 03, 1984 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N90E

GDC-29
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S (-)	E W (-)	
1	0	0	0.00	N05W	0	0	0
2	154	154	1.25	N05W	2	0	0
3	278	278	1.00	N12E	4	0	0
4	433	433	1.25	N43E	7	1	-1
5	554	554	1.00	N42E	9	3	-3
6	727	727	1.00	N11E	11	4	-4
7	880	880	1.50	N22E	14	5	-5
8	1100	1100	1.50	N04W	20	6	-6
9	1337	1337	1.25	S54E	23	11	-11
10	1557	1557	1.25	S16W	18	13	-13
11	1775	1775	1.50	N77W	16	8	-8
12	1806	1806	3.25	N85W	16	7	-7
13	1837	1836	4.75	N85W	16	5	-5
14	1868	1867	6.25	N86W	16	2	-2
15	1945	1944	8.50	N88W	17	-8	8
16	2040	2037	11.00	S86W	17	-24	24
17	2101	2097	13.00	S83W	15	-37	37
18	2179	2173	14.75	S82W	13	-55	55
19	2271	2262	14.75	S83W	10	-78	78
20	2397	2383	15.75	S81W	5	-111	111
21	2463	2447	16.75	S84W	3	-130	130
22	2491	2473	16.25	N89W	2	-138	138
23	2563	2543	13.50	N88W	3	-156	156
24	2689	2666	12.75	N89W	4	-185	185
25	2811	2785	13.25	N87W	5	-212	212
26	2902	2873	13.25	N88W	6	-233	233
27	3036	3003	14.25	N88W	7	-265	265
28	3183	3146	15.00	N87W	8	-302	302
29	3329	3287	14.75	N88W	10	-339	339
30	3451	3404	15.50	N86W	12	-371	371
31	3666	3611	17.00	N85W	16	-431	431
32	3789	3728	17.50	N86W	19	-467	467
33	3912	3845	18.50	N85W	21	-505	505
34	3974	3904	17.75	N85W	23	-525	525
35	4096	4021	17.50	N85W	26	-561	561

JAN 04, 1985 WEIGHING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH S90W

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GDC-29
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMUL. COORDIN N S (-)
			***** ANGLE	BEARING	
36	4220	4139	17.50	S88W	27
37	4340	4253	18.00	N86W	27
38	4462	4369	17.50	N85W	30
39	4585	4487	17.00	S88W	31
40	4679	4577	16.50	S84W	29
41	4807	4700	13.00	N89W	28
42	4990	4876	14.00	S83W	25
43	5118	5001	13.50	S83W	22
44	5240	5119	13.50	S78W	17
45	5364	5240	13.25	S78W	11
46	5486	5359	13.00	S79W	5
47	5642	5511	12.00	S78W	-1
48	5822	5688	10.25	S78W	-9
49	5976	5840	8.75	S66W	-16
50	6096	5958	9.25	S71W	-23
51	6219	6079	10.00	S68W	-30
52	6342	6200	11.25	S63W	-40
53	6434	6290	12.50	S55W	-50
54	6567	6420	13.75	S53W	-67
55	6655	6505	14.00	S52W	-80
56	6783	6629	14.25	S48W	-100
57	6907	6749	15.00	S42W	-122
58	7056	6893	16.50	S38W	-153

JAN 04, 1985 WEIGHTING FACTOR: 0.50

SECTION PROJECTED TO AZIMUTH S90W

GDC-29
MARKER COORDINATE REPORT

E-LOG MARKER NAME	DEPTHS			COORDINATES		LAMBERT COORDS	
	MEAS	VERT	SUBSEA	NS	EW	X	Y
60#	3730	3672	-790	17	-450	-450	17
12#	4798	4691	-1809	28	-769	-769	28
10#	4935	4823	-1941	26	-805	-805	26
10#	5320	5197	-2315	13	-895	-895	13
200#	6917	6759	-3877	-124	-1186	-1186	-124

JAN 04, 1985 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH S90W

GOCF 150-23
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT *****		CUMULATIVE COORDINATES		TOTAL SEC
			ANGLE	BEARING	N S (-)	E W (-)	
1	0	0	0.00	S15W	0	0	0
2	105	105	1.25	S15W	-1	0	0
3	208	208	1.50	S03W	-4	-1	-1
4	336	336	1.75	S03E	-7	-1	-3
5	429	429	1.75	S22E	-10	0	-5
6	513	513	1.75	S25E	-12	1	-7
7	671	671	1.75	S07E	-17	2	-10
8	827	827	1.75	S02W	-22	3	-13
9	960	960	2.25	S28E	-25	4	-16
10	1118	1117	3.50	S03E	-34	6	-22
11	1188	1187	4.25	S02E	-39	6	-24
12	1220	1219	3.25	S02E	-41	6	-25
13	1254	1253	2.50	S17E	-42	6	-27
14	1285	1284	1.75	S30E	-43	7	-27
15	1316	1315	0.75	S30E	-44	7	-28
16	1347	1346	0.50	N70W	-44	7	-28
17	1379	1378	1.25	N60W	-44	6	-28
18	1410	1409	0.50	N56W	-44	6	-27
19	1443	1442	3.00	N52W	-43	5	-26
20	1475	1474	3.75	N54W	-42	4	-24
21	1506	1505	4.75	N54W	-41	2	-22
22	1537	1536	5.75	N57W	-39	-1	-19
23	1682	1679	9.75	N67W	-30	-18	0
24	1775	1771	11.75	N76W	-24	-34	17
25	1814	1809	12.50	N74W	-22	-42	25
26	1844	1838	12.00	N68W	-20	-48	32
27	1875	1869	11.25	N62W	-18	-54	38
28	1961	1953	13.00	N57W	-8	-69	56
29	2055	2044	14.50	N53W	4	-88	78
30	2181	2165	16.75	N61W	21	-118	112
31	2275	2255	19.00	N65W	34	-143	141
32	2382	2356	19.25	N66W	48	-175	176
33	2476	2445	19.00	N65W	61	-203	207
34	2570	2534	19.50	N64W	75	-231	237
35	2625	2585	19.25	N65W	82	-248	256

JUL 13, 1987 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N60W

GDCF 15D-28
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT *****		CUMULATIVE COORDINATES		TOTAL SEC
			ANGLE	BEARING	N S(-)	E W(-)	
36	2807	2757	19.50	N66W	107	-303	316
37	2997	2936	19.50	N68W	132	-361	379
38	3188	3116	19.50	N69W	156	-420	442
39	3379	3297	19.00	N64W	181	-478	504
40	3569	3476	19.00	N67W	206	-534	566
41	3753	3650	19.00	N68W	229	-590	625
42	3942	3829	19.00	N67W	253	-646	686
43	4195	4068	18.75	N68W	284	-722	767
44	4383	4246	19.25	N68W	307	-779	828
45	4573	4425	19.25	N70W	330	-837	890
46	4764	4606	19.25	N70W	351	-896	952
47	4984	4813	19.25	N70W	376	-965	1023
48	5205	5022	19.75	N68W	402	-1033	1096
49	5360	5168	19.25	N62W	424	-1080	1148
50	5644	5436	19.75	N52W	476	-1160	1242
51	5894	5669	22.00	N49W	532	-1229	1330
52	6147	5903	23.00	N48W	597	-1301	1425
53	6312	6054	24.00	N47W	641	-1350	1489
54	6553	6279	23.50	N41W	712	-1418	1585
55	6780	6483	23.25	N37W	781	-1474	1667
56	7040	6721	24.50	N30W	869	-1532	1761
57	7289	6945	27.50	N20W	967	-1578	1850
58	7615	7237	25.00	N15W	1105	-1621	1957
59	7857	7456	25.00	N06W	1206	-1640	2023
60	7939	7531	24.75	N03W	1240	-1643	2043

JUL 13, 1987 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH N60W

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GDC FED. #123-19
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL
			***** ANGLE	BEARING	N S (-)	E W (-)	
1	0	0	0.00	S63W	0	0	0
2	145	145	0.75	S63W	0	-1	1
3	324	324	0.25	S38W	-1	-2	2
4	426	426	1.25	S51W	-2	-3	3
5	582	582	1.50	S78W	-4	-6	6
6	741	741	1.50	S68W	-5	-10	10
7	899	899	1.50	S68W	-7	-14	14
8	1054	1054	2.00	S84W	-8	-19	19
9	1178	1178	2.00	N77W	-8	-23	23
10	1487	1486	3.50	S69W	-9	-38	38
11	1590	1589	4.25	S70W	-11	-44	44
12	1684	1683	5.50	S73W	-14	-52	52
13	1782	1780	7.75	S70W	-17	-63	63
14	1886	1883	8.50	S70W	-22	-77	77
15	1981	1977	9.00	S66W	-28	-90	90
16	2075	2070	9.75	S67W	-34	-104	104
17	2169	2162	10.00	S66W	-40	-119	119
18	2263	2255	10.25	S68W	-47	-134	134
19	2356	2346	10.75	S68W	-53	-150	150
20	2389	2379	11.25	S73W	-55	-156	156
21	2420	2409	11.25	S82W	-56	-162	162
22	2451	2439	12.50	S89W	-57	-168	168
23	2527	2513	14.75	N85W	-56	-186	186
24	2621	2604	14.75	N86W	-54	-210	210
25	2746	2725	14.00	N88W	-53	-241	241
26	2840	2816	14.25	S90W	-52	-264	264
27	2996	2968	14.00	S89W	-53	-302	302
28	3155	3122	15.00	S88W	-54	-341	341
29	3235	3199	16.25	N89W	-54	-363	363
30	3297	3258	16.75	N86W	-53	-381	381
31	3350	3309	16.50	S90W	-53	-396	396
32	3446	3401	17.50	N86W	-52	-424	424
33	3472	3426	17.00	N83W	-51	-431	431
34	3502	3454	16.00	N84W	-50	-440	440
35	3559	3509	14.25	N84W	-48	-455	455

ALEX
OCT 21 1981
TOTAL 4981

AUG 31, 1981 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH S90W

GDC FED. #123-19
STANDARD SURVEY TABLE

ALLX
OCT 12 1981
SEC

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		SEC
			***** ANGLE	BEARING	N S(-)	E W(-)	
36	3873	3814	14.00	N86W	-42	-531	531
37	4015	3951	14.50	N85W	-39	-566	566
38	4171	4103	14.50	N87W	-36	-605	605
39	4298	4226	13.00	N89W	-35	-635	635
40	4477	4400	14.00	S90W	-35	-677	677
41	4727	4642	14.75	N83W	-34	-739	739
42	4850	4761	15.25	N88W	-33	-771	771
43	4913	4822	15.50	N87W	-32	-787	787
44	5040	4944	16.00	N89W	-31	-822	822
45	5195	5093	16.00	N89W	-30	-865	865
46	5353	5245	16.50	N87W	-28	-909	909
47	5554	5437	17.00	N87W	-25	-967	967
48	5823	5692	19.50	S88W	-25	-1051	1051
49	6107	5958	21.50	S83W	-32	-1150	1150
50	6447	6275	21.25	S83W	-48	-1273	1273
51	7064	6859	16.50	S71W	-92	-1467	1467
52	7284	7070	15.50	S60W	-118	-1523	1523
53	7629	7404	14.25	S45W	-172	-1593	1593
54	8039	7802	13.00	S61W	-230	-1670	1670
55	8817	8562	12.00	S70W	-299	-1823	1823

SEP 24, 1981 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH S90W

Alex Schrenier
Geol.

E-LOG MARKER NAME	DEPTHS			COORDINATES		LAMBERT COORDS	
	MEAS	VERT	SUBSEA	NS	EW	X	Y
50#	4190	4121	-1411	-36	-609	-609	-35
20#	4329	4255	-1545	-35	-642	-642	-35
65#	4335	4263	-1553	-35	-644	-644	-35
10#	4424	4348	-1638	-35	-664	-664	-35
10#	7117	6910	-4200	-99	-1481	-1481	-99
15#	7991	7756	-5046	-223	-1661	-1661	-223
35#	8005	7769	-5059	-225	-1664	-1664	-225

SEP 17, 1981 WEIGHTING FACTOR: 0.50
 SECTION PROJECTED TO AZIMUTH S90W

ALEX SCHRENIER
 OCT 12 1981

OTTO FED 21C-12
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT *****		CUMULATIVE COORDINATES		TOTAL SEC
			ANGLE	BEARING	N S(-)	E W(-)	
1	0	0	0.00	S63W	0	0	0
2	136	136	0.00	S63W	0	0	0
3	300	300	0.50	S63W	0	-1	1
4	499	499	1.00	S11W	-2	-2	3
5	684	684	0.75	S20W	-5	-3	6
6	871	871	1.00	N60W	-6	-6	8
7	1120	1120	1.50	S75W	-5	-11	10
8	1370	1370	1.25	S50W	-3	-16	14
9	1555	1555	2.00	S76W	-11	-21	18
10	1680	1680	1.50	N81W	-11	-25	20
11	1867	1867	1.75	N69W	-9	-30	21
12	2056	2056	1.75	N78W	-8	-35	22
13	2242	2241	2.00	N84W	-7	-42	24
14	2334	2333	1.00	S69W	-7	-44	25
15	2423	2422	1.75	S70W	-7	-46	26
16	2642	2641	1.75	S58W	-10	-52	31
17	2794	2793	2.25	S30W	-14	-56	36
18	2815	2814	3.25	S28W	-15	-56	37
19	2846	2845	4.50	S27W	-17	-57	39
20	2901	2900	6.00	S26W	-21	-59	44
21	2994	2992	8.75	S20W	-32	-64	56
22	3152	3148	9.25	S20W	-55	-73	81
23	3307	3301	9.75	S24W	-79	-82	106
24	3432	3424	9.75	S25W	-98	-91	127
25	3597	3587	10.00	S26W	-124	-103	156
26	3651	3640	10.00	S19W	-132	-107	165
27	3794	3781	10.25	S21W	-156	-115	190
28	3983	3967	10.00	S22W	-187	-127	223
29	4357	4335	9.75	S26W	-246	-154	287
30	4612	4586	11.25	S31W	-286	-176	334
31	4896	4864	12.25	S34W	-335	-207	391
32	4987	4953	12.25	S45W	-350	-219	410
33	5234	5194	12.75	S33W	-392	-253	462
34	5425	5380	12.50	S37W	-426	-277	503
35	5739	5687	12.75	S41W	-479	-320	569

JUN 25, 1985 WEIGHTING FACTOR: 6.50
SECTION PROJECTED TO AZIMUTH S25W

OTTO FED 210-12
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	***** BEARING	N S (-)	E W (-)	
36	5990	5931	14.00	S42W	-523	-358	625
37	6115	6052	14.75	S40W	-546	-379	655
38	6254	6187	13.75	S44W	-571	-402	688
39	6368	6298	14.00	S43W	-591	-420	714
40	6526	6451	14.25	S43W	-620	-447	750
41	6683	6603	15.00	S38W	-650	-472	788
42	6757	6674	14.75	S37W	-665	-484	807
43	6882	6795	14.00	S34W	-690	-502	837
44	6970	6881	14.00	S36W	-707	-514	858
45	7091	6998	13.25	S35W	-731	-531	886
46	7247	7150	12.50	S30W	-760	-549	921
47	7404	7303	13.00	S34W	-789	-568	955
48	7527	7423	13.75	S33W	-813	-584	983
49	7591	7485	13.00	S35W	-825	-592	998
50	7716	7607	13.00	S33W	-849	-608	1026
51	7810	7699	12.75	S35W	-866	-619	1047
52	7936	7822	13.25	S34W	-889	-635	1075
53	8094	7975	14.00	S37W	-920	-657	1111
54	8237	8114	13.75	S40W	-947	-678	1144
55	8405	8277	13.25	S38W	-977	-703	1183
56	8777	8639	13.75	S38W	-1045	-756	1267
57	9026	8880	14.75	S42W	-1092	-796	1326
58	9341	9185	14.00	S45W	-1149	-850	1400

JUN 25, 1985 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH S25W

UTTO FED 21C-12
MARKER COORDINATE REPORT

E-LOG MARKER NAME	DEPTHS			COORDINATES		LAMBERT COORDS	
	MEAS	VERT	SUBSEA	NS	EW	X	Y
10#	5602	5553	-2422	-456	-301	-301	-456
45#	6248	6181	-3050	-570	-401	-401	-570

JUN 25, 1985 WEIGHTING FACTOR: 0.50
SECTION PROJECTED TO AZIMUTH S25W

SULPHUR BANK 24
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES	
			***** ANGLE	BEARING	N S (-)	E W (-)
1				N84W		
2	153	153	0.50	N84W	0.07	-0.66
3	303	303	2.50	N62W	1.22	-4.42
4	378	378	3.50	S56W	1.01	-8.34
5	441	441	3.50	S65W	-0.88	-11.69
6	565	564	3.75	S52W	-4.98	-18.37
7	688	687	3.75	S51W	-9.99	-24.67
8	815	814	5.25	S60W	-15.63	-32.88
9	909	907	5.25	S51W	-20.50	-39.97
10	1053	1051	5.75	S48W	-29.46	-50.46
11	1143	1140	5.25	S46W	-35.35	-56.77
12	1169	1166	5.25	S60W	-36.78	-58.67
13	1199	1196	4.50	S60W	-38.05	-60.88
14	1230	1227	3.75	S64W	-39.10	-62.85
15	1261	1258	3.00	S60W	-39.96	-64.46
16	1292	1289	2.25	S56W	-40.71	-65.66
17	1323	1320	1.50	S50W	-41.32	-66.47
18	1355	1352	1.00	S30W	-41.86	-66.92
19	1385	1382	0.75	S18W	-42.27	-67.11
20	1436	1433	0.25	N70W	-42.47	-67.51
21	1499	1496	0.50	N36E	-42.07	-67.63
22	1592	1589	0.75	S50E	-41.95	-66.62
23	1718	1715	1.75	S55W	-44.70	-66.74
24	1780	1777	1.50	S73W	-45.47	-68.32
25	1875	1872	2.25	S53W	-46.88	-71.09
26	1919	1916	1.75	N85W	-47.30	-72.57
27	1950	1947	0.75	N45W	-47.02	-73.18
28	2033	2030	2.00	N19W	-45.33	-74.24
29	2098	2095	2.50	N31W	-43.01	-75.31
30	2140	2137	3.25	N10W	-41.04	-76.05
31	2172	2169	2.25	N07W	-39.52	-76.28
32	2203	2200	2.25	N13E	-38.31	-76.21
33	2235	2232	2.25	N33E	-37.15	-75.72
34	2266	2263	2.00	N72E	-36.45	-74.81
35	2298	2295	1.50	S74E	-36.43	-73.83

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NOV 30, 1977

WEIGHTING FACTOR: 0.50

SULPHUR BANK 24
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT *****		CUMULATIVE COORDINATES	
			ANGLE	BEARING	N S(-)	E W(-)
36	2345	2342	0.50	S65E	-36.72	-73.07
37	2411	2408	0.50	N14E	-36.47	-72.55
38	2474	2471	0.75	S88W	-35.94	-72.98
39	2536	2533	1.25	S88W	-35.98	-74.06
40	2597	2593	1.50	N57W	-35.59	-75.47
41	2628	2624	2.25	S89W	-35.31	-76.45
42	2676	2672	1.75	N72W	-35.06	-78.10
43	2706	2702	0.75	N50W	-34.74	-78.68
44	3150	3146	0.75	N49W	-30.97	-83.09
45	3245	3241	1.25	N26W	-29.65	-84.10
46	3340	3336	1.00	N87W	-28.62	-85.66
47	3434	3430	1.50	N82W	-28.43	-87.70
48	3527	3523	2.00	N86W	-28.13	-90.52
49	3653	3649	2.50	N87W	-27.83	-95.46
50	3746	3742	3.00	S78W	-28.18	-99.91
51	3872	3868	2.50	N83W	-28.44	-105.95
52	3966	3962	3.00	N84W	-27.93	-110.43
53	4092	4088	2.25	N89W	-27.58	-116.19
54	4218	4214	2.75	S64W	-28.77	-121.56
55	4344	4339	2.75	S78W	-30.74	-127.27
56	4471	4466	2.50	S53W	-33.15	-132.57
57	4597	4592	3.00	S53W	-36.79	-137.39
58	4753	4748	3.50	S75W	-40.66	-145.34
59	4971	4966	3.25	S70W	-44.52	-157.58
60	5403	5397	3.75	S68W	-53.97	-182.20
61	5646	5639	3.00	S53W	-61.02	-194.65
62	5929	5922	3.00	S83W	-66.57	-208.39
63	6272	6265	2.50	N67W	-64.28	-224.68
64	6584	6576	0.75	N02E	-56.81	-229.44
65	6868	6860	1.50	S80W	-53.16	-233.65
66	7371	7363	0.75	N02W	-46.94	-241.32
67	7943	7935	0.75	N62E	-40.46	-237.58

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JAN 03, 1978 WEIGHTING FACTOR: 0.50

7977 TD

TOCHER-4
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	***** BEARING	N S(-)	E W(-)	
1	0	0	0.00	S77E	0	0	0
2	75	75	0.25	S77E	0	0	0
3	128	128	0.25	N30W	0	0	0
4	156	156	0.75	S55E	0	0	1
5	185	185	2.00	S89E	0	1	1
6	223	222	2.00	N77E	0	2	1
7	251	251	2.25	S80E	0	3	2
8	280	279	2.00	N89E	0	5	2
9	323	323	2.00	N88E	0	6	3
10	361	361	1.50	S60E	0	7	4
11	409	409	0.75	S55E	-1	8	4
12	421	421	1.00	S70E	-1	8	4
13	440	440	2.00	N50E	-1	9	4
14	459	459	3.50	N44E	0	9	5
15	469	469	4.25	N43E	1	10	5
16	478	478	5.00	N44E	1	10	6
17	488	488	6.00	N49E	2	11	7
18	497	497	6.50	N49E	2	12	8
19	524	524	7.75	N41E	5	14	11
20	533	552	8.00	N42E	8	17	15
21	576	577	8.25	N44E	10	19	16
22	597	596	9.00	N40E	12	21	21
23	625	623	10.50	N40E	16	24	26
24	664	661	12.50	N39E	22	29	34
25	702	698	14.25	N38E	29	34	42
26	741	736	15.50	N40E	37	41	52
27	769	763	16.50	N40E	43	46	60
28	792	785	16.75	N40E	48	50	66
29	839	831	16.25	N39E	56	59	80
30	906	895	16.25	N41E	72	71	98
31	973	959	16.00	N42E	86	83	116
32	1088	1069	17.00	N42E	111	105	148
33	1136	1115	17.25	N39E	121	114	162
34	1194	1170	17.50	N44E	134	125	179
35	1232	1206	17.75	N45E	142	133	190

OCT 13, 1985 WEIGHTING FACTOR: 0.50 MEASUREMENTS ARE IN METERS
SECTION PROJECTED TO AZIMUTH N30E

TOUCHER-4
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S(-)	E W(-)	
71	2556	2480	21.25	N38E	448	304	540
72	2613	2533	22.25	N36E	465	316	560
73	2708	2620	25.25	N41E	495	340	598
74	2775	2681	25.25	N40E	516	359	626
75	2833	2733	27.00	N38E	536	375	651
76	2889	2783	27.50	N38E	555	391	677
77	2984	2867	28.75	N36E	592	417	722
78	3030	2907	29.00	N36E	610	431	744

OCT 13, 1988 WEIGHTING FACTOR: 0.50 MEASUREMENTS ARE IN METERS
SECTION PROJECTED TO AZIMUTH N30E

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TUCHER-4 REDRILL
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIPT		CUMULATIVE COORDINATES		TOTAL SEC
			**** ANGLE	***** BEARING	N S (-)	E W (-)	
1	0	0	0.00	S77E	0	0	0
2	75	75	0.25	S77E	0	0	0
3	128	128	0.25	N30W	0	0	0
4	156	156	0.75	S55E	0	0	0
5	185	185	2.00	S89E	0	1	0
6	223	222	2.00	N77E	0	2	0
7	251	251	2.25	S80E	0	3	1
8	280	279	2.00	N89E	0	5	1
9	323	323	2.00	N88E	0	6	1
10	361	361	1.50	S60E	0	7	1
11	409	409	0.75	S55E	-1	8	0
12	421	421	1.00	S70E	-1	8	0
13	440	440	2.00	N50E	-1	9	0
14	459	459	3.50	N44E	0	9	1
15	469	469	4.25	N43E	1	10	1
16	478	478	5.00	N44E	1	10	2
17	488	488	6.00	N49E	2	11	3
18	497	497	6.50	N49E	2	12	3
19	524	524	7.75	N41E	5	14	6
20	553	552	8.00	N42E	8	17	9
21	578	577	8.25	N44E	10	19	12
22	597	596	9.00	N40E	12	21	14
23	625	623	10.50	N40E	16	24	18
24	664	661	12.50	N39E	22	29	24
25	702	698	14.25	N38E	29	34	32
26	741	736	15.50	N40E	37	41	40
27	769	763	16.50	N40E	43	46	46
28	792	785	16.75	N40E	48	50	52
29	839	831	16.25	N39E	53	59	65
30	906	895	16.25	N41E	72	71	78
31	973	959	16.00	N42E	96	83	93
32	1088	1069	17.00	N42E	111	105	119
33	1136	1115	17.25	N39E	121	114	131
34	1194	1170	17.50	N44E	134	125	145
35	1232	1208	17.75	N45E	142	133	153

NOV 13, 1988 WEIGHTING FACTOR: 0.50 MEASUREMENTS ARE IN METERS
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TCCHER-4 REDRILL
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			*** ANGLE	***** BEARING	N S (-)	E W (-)	
36	1269	1241	18.25	N44E	151	141	162
37	1297	1269	18.75	N45E	157	148	169
38	1324	1294	16.00	N37E	163	155	176
39	1334	1304	15.00	N33E	165	155	178
40	1344	1313	15.00	N29E	167	156	180
41	1362	1331	14.25	N22E	172	158	185
42	1391	1359	14.00	N20E	178	160	192
43	1438	1405	14.00	N20E	189	164	203
44	1475	1441	13.25	N22E	197	167	211
45	1523	1487	16.25	N03E	209	170	223
46	1540	1503	15.25	N05E	213	170	227
47	1566	1529	15.00	N05W	220	170	234
48	1582	1544	16.25	N03W	225	170	239
49	1615	1575	17.00	N04W	234	169	248
50	1649	1608	17.25	N01E	244	169	258
51	1683	1621	17.50	N08E	248	170	262
52	1686	1643	17.25	N11E	255	171	269
53	1743	1697	17.25	N11E	271	174	286
54	1800	1752	16.00	N12E	287	177	302
55	1847	1798	14.50	N15E	300	180	314
56	1834	1834	14.25	N16E	306	183	323
57	1960	1907	13.00	N19E	325	188	341
58	2003	1949	13.25	N19E	335	191	350
59	2060	2005	16.00	N20E	348	196	364
60	2108	2050	18.75	N23E	362	201	378
61	2154	2094	19.50	N21E	376	207	392
62	2210	2147	20.25	N23E	393	214	411
63	2249	2183	19.25	N26E	405	219	423
64	2306	2236	19.25	N29E	422	228	440
65	2372	2300	18.25	N31E	440	239	459
66	2430	2355	18.00	N30E	456	248	476
67	2487	2408	19.25	N28E	472	257	492
68	2545	2465	18.75	N27E	489	266	510
69	2584	2501	17.75	N27E	499	271	521
70	2636	2550	18.00	N23E	514	278	536

OCT 13, 1988 WEIGHTING FACTOR: 0.50 MEASUREMENTS ARE IN METERS
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TOCHER-4 REDRILL
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			***** ANGLE	BEARING	N S(+)	E W(-)	
71	2693	2604	19.25	N20E	531	284	554
72	2748	2656	20.00	N16E	548	290	572
73	2805	2709	19.25	N19E	567	296	590
74	2854	2755	19.75	N24E	582	302	608
75	2901	2800	19.00	N21E	596	308	621
76	2949	2845	20.75	N21E	611	314	636

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LAKOMA FAME STATE 23
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES	
			***** ANGLE	BEARING	N S (-)	E W (-)
1				N32W		
2	127	127	1.00	N32W	0.94	-0.59
3	270	270	3.00	N24W	5.35	-2.93
4	359	359	3.25	N21W	9.83	-4.79
5	461	461	3.25	N16W	15.31	-6.62
6	585	584	3.25	N29W	21.81	-9.31
7	709	708	3.00	N36W	27.51	-12.94
8	783	782	3.00	N34W	30.68	-15.17
9	874	873	3.25	N39W	34.67	-18.12
10	971	970	3.50	N33W	39.29	-21.47
11	1065	1064	3.75	N31W	44.33	-24.62
12	1158	1156	3.75	N29W	49.60	-27.66
13	1252	1250	3.25	N36W	54.44	-30.75
14	1378	1376	2.50	N35W	59.58	-34.42
15	1505	1503	2.25	N44W	63.64	-37.76
16	1586	1584	2.25	N47W	65.87	-40.03
17	1679	1677	2.25	N57W	68.12	-42.91
18	1803	1801	3.00	N70W	70.65	-47.99
19	1925	1923	2.75	N72W	72.65	-53.78
20	2054	2051	3.00	N83W	74.05	-60.09
21	2242	2239	3.50	N77W	75.90	-70.59
22	2336	2333	3.75	N75W	77.33	-76.36
23	2525	2521	5.00	N88W	79.47	-90.62
24	2546	2542	5.00	N68W	79.85	-92.41
25	2741	2737	5.00	N77W	84.96	-108.62
26	2898	2893	5.50	N86W	87.08	-122.82
27	3025	3019	6.00	N81W	88.52	-135.47
28	3107	3101	5.25	N84W	89.57	-143.43
29	3201	3194	5.75	N86W	90.35	-152.41
30	3296	3289	5.75	N79W	91.60	-161.85
31	3407	3399	5.50	N86W	93.02	-172.63
32	3521	3513	6.00	N79W	94.51	-183.96
33	3645	3636	6.75	N76W	97.49	-197.40
34	3802	3791	9.50	N71W	103.79	-218.67
35	3891	3879	9.50	N68W	108.93	-232.43

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MAR 06, 1978

WEIGHTING FACTOR: 0.50

LAKOMA FAME STATE 23 - SIDETRACK 1
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES	
			***** ANGLE	***** BEARING	N S (-)	E W (-)
36	3922	3910	6.50	N68W	110.55	-236.43
37	3954	3942	5.75	N63W	111.97	-239.54
38	3985	3973	4.50	N67W	113.14	-242.05
39	4016	4004	3.75	N59W	114.15	-244.04
40	4047	4035	3.00	N46W	115.26	-245.48
41	4077	4064	2.75	N24W	116.49	-246.35
42	4108	4095	1.75	N42W	117.51	-247.01
43	4140	4127	1.25	N23E	118.34	-247.15
44	4188	4175	3.00	N34E	119.90	-246.30
45	4251	4238	3.25	N27E	122.86	-244.56
46	4342	4329	3.75	N28E	127.79	-241.99
47	4405	4392	4.00	N25E	131.60	-240.09
48	4479	4466	4.50	N20E	136.67	-237.99
49	4601	4587	4.75	N20E	145.91	-234.63
50	4738	4724	5.00	N17E	156.95	-230.93
51	4863	4848	4.75	N22E	166.97	-227.39
52	4987	4972	5.50	N22E	177.24	-223.24
53	5136	5120	5.25	N24E	190.08	-217.79
54	5286	5270	5.25	N18E	202.90	-212.87
55	5419	5402	5.50	N09E	215.01	-209.96
56	5513	5496	6.25	N01E	224.60	-209.12
57	5602	5584	7.25	N24W	234.85	-211.20
58	5736	5717	8.25	N08W	252.22	-216.19
59	5789	5769	8.00	N12W	259.59	-217.49
60	5853	5833	7.50	N08W	268.09	-218.98
61	5916	5895	6.25	N05W	275.59	-219.84
62	6017	5996	6.25	N06E	286.58	-219.74
63	6045	6023	6.00	N03E	289.56	-219.51
64	6076	6054	6.25	N04E	292.86	-219.31
65	6107	6085	6.00	N02W	296.17	-219.25
66	6170	6148	5.50	N25W	302.31	-220.72
67	6200	6178	6.25	N31W	305.02	-222.16
68	6253	6230	7.25	N48W	309.82	-226.13
69	6346	6322	8.25	N50W	318.05	-235.59
70	6446	6415	11.25	N41W	329.21	-246.94

APR 17, 1978

WEIGHTING FACTOR. 0.50

LAKOMA FAME STATE 23 - SIDETRACK 1
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES	
			***** ANGLE	BEARING	N S(-)	E W(-)
71	6548	6521	10.00	N43W	344.01	-260.27
72	6667	6638	11.25	N41W	360.31	-274.95
73	6820	6787	14.75	N40W	386.48	-297.30
74	6848	6814	14.50	N26E	393.50	-298.16
75	6861	6827	16.25	N38W	396.93	-298.52
76	6892	6857	15.75	N39W	403.61	-303.84
77	6922	6885	16.25	N39W	410.04	-309.05
78	6959	6921	16.25	N44W	417.80	-315.91
79	6990	6951	16.25	N49W	423.77	-322.20
80	7065	7023	16.50	N58W	436.34	-339.20
81	7156	7110	17.00	N59W	450.05	-361.56
82	7249	7198	18.50	N62W	464.01	-386.23
83	7319	7265	19.00	N57W	475.43	-405.62
84	7383	7325	18.50	N59W	486.33	-423.07
85	7441	7380	18.00	N60W	495.55	-438.72
86	7504	7440	18.00	N60W	505.28	-455.58
87	7569	7502	19.00	N59W	515.75	-473.35
88	7631	7561	18.50	N59W	526.01	-490.43
89	7693	7619	18.00	N57W	536.30	-506.90
90	7751	7675	18.50	N56W	546.33	-522.04
91	7845	7764	17.75	N54W	563.10	-546.00
92	7908	7824	18.25	N55W	574.41	-561.85
93	8031	7941	17.25	N52W	596.71	-591.99
94	8094	8001	18.00	N58W	607.65	-607.61
95	8191	8093	18.25	N51W	625.17	-632.18
96	8277	8175	18.00	N52W	641.83	-653.12
97	8384	8276	18.75	N49W	663.28	-679.14
98	8520	8405	19.00	N44W	693.57	-711.06
99	8641	8520	18.75	N44W	721.73	-738.25
100	8737	8611	18.50	N44W	743.78	-759.55
101	8829	8698	18.25	N42W	764.99	-779.33
102	8921	8786	17.00	N44W	785.36	-798.32
103	9082	8941	13.50	N53W	813.42	-830.04
104	9185	9041	12.50	N50W	827.85	-848.17
105	9311	9164	12.00	N54W	844.31	-869.24

MAY 03, 1978

WEIGHTING FACTOR: 0.50

LAKOMA FAME STATE 23 - SIDETRACK 1
 STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES	
			***** ANGLE	BEARING	N S (-)	E W (-)
106	9462	9312	11.00	N54W	862.00	-893.60
107	9695	9541	10.50	N45W*	890.23	-926.64
108	9912	9753	14.00	N16W	929.90	-950.01

MAY 08, 1978 WEIGHTING FACTOR: 0.50

LF-40 STB
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMUL. COORDIN N S(-)
			***** ANGLE	***** BEARING	
1	0	0	0.00	S23E	0
2	137	137	0.25	S23E	0
3	226	226	1.00	S46W	-1
4	315	315	1.50	S37W	-3
5	343	343	2.00	S27W	-3
6	406	406	1.75	S10W	-5
7	499	499	2.50	S04W	-9
8	539	539	2.75	S22W	-11
9	602	602	3.00	S03E	-14
10	634	634	3.25	S42E	-15
11	665	665	2.75	S14E	-17
12	696	696	2.75	S35E	-18
13	728	728	2.75	S31E	-19
14	759	759	2.50	S50E	-20
15	791	791	1.75	S50E	-21
16	848	848	0.50	S60E	-22
17	973	973	0.50	S30W	-23
18	1100	1099	1.00	S46W	-24
19	1195	1194	1.25	N76W	-25
20	1321	1320	0.75	S84W	-25
21	1448	1447	0.75	N53W	-24
22	1574	1573	0.50	N89W	-24
23	1698	1697	0.75	N53W	-23
24	1763	1762	1.25	S70W	-23
25	1793	1792	0.75	S74W	-23
26	1825	1824	0.75	S42W	-23
27	1918	1917	1.00	S07W	-25
28	2013	2012	1.50	S06E	-27
29	2106	2105	2.00	S12W	-30
30	2198	2197	1.50	S40W	-32
31	2323	2322	1.75	S50W	-35
32	2374	2373	1.75	N70W	-35
33	2406	2405	2.75	N41W	-34
34	2438	2437	2.25	N15W	-33
35	2469	2468	2.00	N28E	-32

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LF-40 S13
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VE. I. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			ANGLE	BEARING	N S (-)	E W (-)	
36	2501	2500	2.25	N62E	-31	-16	2
37	2573	2572	4.75	S84E	-30	-12	5
38	2672	2670	6.75	S82E	-31	-2	14
39	2795	2793	7.75	S82E	-34	14	29
40	2920	2916	6.75	S82E	-36	31	49
41	3046	3040	10.25	S81E	-39	52	65
42	3172	3164	11.25	S85E	-42	75	86
43	3234	3225	11.75	S83E	-43	88	98
44	3296	3286	12.25	S83E	-45	109	109
45	3416	3403	11.50	S83E	-48	125	152
46	3541	3526	10.75	S82E	-51	149	184
47	3628	3611	10.25	S85E	-53	165	189
48	3721	3703	9.50	S85E	-54	181	183
49	3809	3790	9.50	S87E	-55	195	196
50	3931	3910	9.50	S86E	-56	215	214
51	4037	4064	9.50	S89E	-58	241	237
52	4242	4217	9.75	N89E	-58	267	260
53	4396	4368	11.00	N84E	-56	294	283
54	4489	4460	10.50	N88E	-55	312	297
55	4605	4573	11.75	N90E	-54	334	316
56	4641	4609	12.00	S85E	-55	341	323
57	4674	4641	13.25	S81E	-55	349	330
58	4735	4700	13.50	S72E	-59	362	343
59	4769	4733	14.25	S70E	-61	370	351
60	4801	4764	15.00	S69E	-64	376	359
61	4867	4828	13.50	S58E	-71	392	375
62	5003	4960	13.50	S63E	-87	420	407
63	5162	5115	13.75	S59E	-105	453	445
64	5417	5363	13.50	S62E	-135	505	505
65	5544	5486	13.00	S59E	-149	530	534
66	5735	5673	12.50	S58E	-171	566	576
67	5926	5859	12.50	S52E	-195	600	617
68	6118	6047	12.00	S53E	-220	632	657
69	6250	6176	12.00	S48E	-257		
70	6377	6300	12.00	S52E	-254		

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LF-40 ST3
STANDARD SURVEY TABLE

STA	MEAS. DEPTH	VERT. DEPTH	DRIFT		CUMULATIVE COORDINATES		TOTAL SEC
			ANGLE	BEARING	N S (-)	E W (-)	
71	6536	6456	12.00	S51E	-275	700	743
72	6727	6643	11.25	S58E	-297	731	782
73	6854	6767	11.25	S53E	-311	751	806
74	6982	6893	11.50	S53E	-326	772	831
75	7109	7017	11.00	S50E	-342	791	856
76	7286	7191	11.25	S47E	-364	816	889
77	7445	7346	15.00	S47E	-389	843	924
78	7588	7483	16.75	S45E	-416	871	962
79	7684	7575	17.75	S45E	-435	891	990
80	7779	7665	16.75	S41E	-458	911	1018
81	7887	7767	19.00	S38E	-485	934	1051
82	8046	7919	17.00	S23E	-527	959	1094
83	8146	8014	16.50	S18E	-554	969	1116
84	8398	8257	14.00	S06E	-619	982	1160
85	8621	8474	12.75	S06W	-671	982	1186
86	8793	8642	13.50	S17W	-709	975	1199
87	9120	8960	14.00	S20W	-783	950	1214

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LF-40 STB
MARKER COORDINATE REPORT

E-LOG MARKER NAME	DEPTHS			COORDINATES		LAMBERT COORDS	
	MEAS	VERT	SUBSEA	NS	EW	X	Y
5#	6122	6051	-2359	-220	633	633	-220
10#	6924	6836	-3044	-319	762	762	-319
15#	7527	7425	-4233	-405	859	859	-405
10#	7662	7554	-4362	-432	887	887	-432
10#	7716	7605	-4413	-444	898	898	-444
5#	8604	8458	-5266	-607	982	982	-607

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