

OVERLAND EXPLORATION SERVICES LTD.
GRAVITY METER CALCULATION SHEET

007727

SHEET NO. 1

Job. MAGUNDY RIVER

Inst. No. 806

Density

Date JUNE 8, 1970

Meter Const. 0.08351

Comb. Free Air-Corr. Const. 0.000

STN	TIME	INST. READING	ELEVA-TION	LAT. CORR.	BOUGER VALUE	
BASE A	STN 28	Line 134				
		500.00				
STN 29N BASE A	9:20	709.0				
"	9:30	708.8	3997.3	+1.23	741.07	741.07
29N	9:32	719.5	3974.0	+1.21	740.46	67
30N	9:34	724.8	3948.1	+1.19	739.41	41
31	9:36	729.5	3930.2	+1.17	738.69	28
32	9:38	736.9	3906.2	+1.14	737.84	35
33	9:40	741.9	3887.1	+1.12	737.09	23
34	9:42	747.6	3864.8	+1.10	736.20	05
35	9:44	758.8	3830.3	+1.08	735.04	29
36	9:46	763.5	3811.6	+1.05	734.28	12
37	9:48	770.1	3782.5	+1.03	733.06	740.72
38	9:50	779.5	3757.8	+1.01	732.34	741.18
39	9:52	785.3	3740.2	+0.99	731.74	30
40	9:54	788.0	3726.3	+0.97	731.11	00
41	9:56	791.5	3713.4	+0.95	730.59	740.93
42	9:58	796.0	3692.8	+0.92	729.70	60
43	10:00	798.8	3673.1	+0.90	728.73	739.97
44	10:02	804.0	3654.6	+0.88	728.03	92
45	10:04	806.4	3639.6	+0.86	727.21	49
46	10:06	817.2	3627.5	+0.84	727.45	740.99
47	10:08	826.5	3561.2	+0.81	724.22	738.92

STN	TIME	INST. READING	ELEVA-TION	LAT. CORR.	BOUGER VALUE	
30 49	10:10	822.6	3556.2	+0.79	724.40	739.87
49	10:12	850.0	3482.6	+0.77	721.42	07
50	10:14	867.0	3431.0	+0.75	719.71	50
51	10:16	886.9	3368.4	+0.73	717.59	88
52	10:18	898.4	3318.5	+0.71	715.54	21
53	10:20	907.2	3289.4	+0.68	714.49	32
54	10:22	917.2	3260.9	+0.66	713.59	68
55	10:24	924.4	3233.6	+0.64	712.53	52
56	10:26	933.5	3214.5	+0.62	712.12	740.25
57	10:28	936.5	3192.5	+0.60	711.02	739.52
58	10:30	948.0	3156.7	+0.58	709.81	75
59	10:32	956.0	3126.1	+0.56	708.62	57
60	10:34	966.0	3084.0	+0.55	706.91	11
61	10:36	977.0	3058.2	+0.53	706.26	83
62	10:38	975.5	3065.3	+0.50	706.53	91
63	10:40	969.7	3091.1	+0.48	707.57	740.21
64	10:42	965.5	3099.9	+0.46	707.71	739.82
Re 56N	10:45	934.0	3214.5	+0.62	712.11	740.24
Re 47N	10:58	827.6	3561.2	+0.81	724.19	738.85
STN 29N BASE-A	11:20	712.0	3997.3	+1.23	741.07	741.07

OVERLAND EXPLORATION SERVICES LTD.
GRAVITY METER CALCULATION SHEET

SHEET NO. 1

Job. MAGUNNY RIVER

Inst. No. 806

Density

Date JUNE 8, 1970

Meter Const. 0.08351

Comb. Free Air-Corr. Const. 0.000

STN	TIME	INST. READING	ELEVA-TION	LAT. CORR.	BOUGER VALUE	<i>Bouguer GAUSS</i>
BASE A	STN 28	Line	134			
		500.00				
STN 28N BASE A	9:20	709.0				
"	9:30	709.8	3997.3	+1.23	741.07	741.03
29N	9:32	719.5	3974.0	+1.21	740.46	40.97
30N	9:34	724.8	3948.1	+1.19	739.41	40.95
31	9:36	729.5	3930.2	+1.17	738.69	40.95
32	9:38	736.9	3906.2	+1.14	737.84	41.08
33	9:40	741.9	3887.1	+1.12	737.09	40.95
34	9:42	747.6	3864.8	+1.10	736.20	40.89
35	9:44	759.8	3830.3	+1.08	735.04	40.90
36	9:46	763.5	3811.6	+1.05	734.28	40.77
37	9:48	770.1	3782.5	+1.03	733.06	40.85
38	9:50	779.5	3757.8	+1.01	732.34	40.83
39	9:52	785.3	3740.2	+0.99	731.74	40.76
40	9:54	789.0	3726.3	+0.97	731.11	40.70
41	9:56	791.5	3713.4	+0.95	730.59	40.52
42	9:58	796.0	3692.8	+0.92	729.70	40.35
43	10:00	798.8	3673.1	+0.90	728.73	40.09
44	10:02	804.0	3654.6	+0.88	728.03	39.94
45	10:04	808.4	3639.6	+0.86	727.21	39.67
46	10:06	817.2	3627.5	+0.84	727.45	39.30
47	10:08	826.5	3561.2	+0.81	724.22	38.29

STN	TIME	INST. READING	ELEVA-TION	LAT. CORR.	BOUGER VALUE	
49	10:10	822.6	3556.2	+0.79	724.40	38.75
49	10:12	850.0	3482.6	+0.77	721.42	38.71
50	10:14	867.0	3431.0	+0.75	719.71	N.R.
51	10:16	886.9	3368.4	+0.73	717.57	38.21
52	10:18	898.4	3318.5	+0.71	715.54	38.79
53	10:20	907.2	3289.4	+0.68	714.49	39.17
54	10:22	917.2	3260.9	+0.66	713.57	39.40
55	10:24	924.4	3233.6	+0.64	712.53	39.32
56	10:26	933.5	3214.5	+0.62	712.12	39.47
57	10:28	936.5	3192.5	+0.60	711.02	39.45
58	10:30	948.0	3156.7	+0.58	709.81	39.35
59	10:32	955.0	3126.1	+0.56	708.62	
60	10:34	956.0	3084.0	+0.55	706.91	
61	10:36	977.0	3058.2	+0.53	706.26	
62	10:38	975.5	3065.3	+0.50	706.53	
63	10:40	969.7	3091.1	+0.48	707.57	
64	10:42	965.5	3099.9	+0.46	707.71	
Re 56N	10:45	934.0	3214.5	+0.62	712.11	
Re 47N	10:58	827.6	3561.2	+0.81	724.19	
STN 28N BASE-A	11:20	712.0	3997.3	+1.23	741.07	

Line 134

OVERLAND EXPLORATION SERVICES LTD.
GRAVITY METER CALCULATION SHEET

See Below

$0.9406 * -0.01277 * 0.65 = 0.060$

SHEET NO. 1

Job. MAGUNDY RIVER

Inst. No. 806

Density * Density of Rock

Date JUNE 8, 1970

Meter Const. 0.08351

Booyer
Comb/Free Air-Corr. Const. 0.060

STN	TIME	INST. READING	ELEVATION	LAT. CORR.	BOUGER VALUE	COMB. CONST.
Base A	STN 28	Line 134 → N	ARB. datum	500 plane		
STN 29N BASE A	9:20	709.0				
28	9:30	709.8	3997.3	+1.23	741.07	725.32
29N	9:32	719.5	3974.0	+1.21	740.46	724.54
30N	9:34	724.8	3948.1	+1.19	739.41	723.69
31	9:36	729.5	3930.2	+1.17	738.69	722.96
32	9:38	736.9	3906.2	+1.14	737.84	722.21
33	9:40	741.9	3887.1	+1.12	737.09	721.52
34	9:42	747.6	3864.8	+1.10	736.20	720.73
35	9:44	758.8	3830.3	+1.08	735.04	719.71
36	9:46	763.5	3811.6	+1.05	734.28	719.02
37	9:48	770.1	3782.5	+1.03	733.06	717.51
38	9:50	779.5	3757.8	+1.01	732.34	717.30
39	9:52	785.3	3740.2	+0.99	731.74	716.77
40	9:54	788.0	3726.3	+0.97	731.11	716.20
41	9:56	791.5	3713.4	+0.95	730.59	715.75
42	9:58	796.0	3692.8	+0.92	729.70	714.94
43	10:00	798.8	3673.1	+0.90	728.73	714.04
44	10:02	804.0	3654.6	+0.88	728.03	713.43
45	10:04	808.4	3639.6	+0.86	727.21	712.76
46	10:06	817.2	3627.5	+0.84	727.45	712.96
47	10:08	826.5	3561.2	+0.81	724.22	709.99

STN	TIME	INST. READING	ELEVATION	LAT. CORR.	BOUGER VALUE	
49	10:10	832.6	3556.2	+0.79	724.40	710.20
49	10:12	850.0	3482.6	+0.77	721.42	708.50
50	10:14	867.0	3431.0	+0.75	719.71	705.0
51	10:16	886.9	3368.4	+0.73	717.59	704.15
52	10:18	898.4	3318.5	+0.71	715.54	703.43
53	10:20	907.2	3289.4	+0.68	714.49	701.13
54	10:22	917.2	3260.9	+0.66	713.59	700.34
55	10:24	924.4	3233.6	+0.64	712.53	699.72
56	10:26	933.5	3214.5	+0.62	712.12	699.27
57	10:28	936.5	3192.5	+0.60	711.02	698.28
58	10:30	948.0	3156.7	+0.58	709.81	697.19
59	10:32	956.0	3126.1	+0.56	708.62	696.06
60	10:34	966.0	3040.0	+0.55	706.91	694.70
61	10:36	977.0	3058.2	+0.53	706.26	694.03
62	10:38	975.5	3065.3	+0.50	706.53	694.40
63	10:40	969.7	3091.1	+0.48	707.57	695.12
64	10:42	965.5	3099.9	+0.46	707.71	695.36
Re 56N	10:45	934.0	3214.5	+0.62	712.11	700.10
Re 47N	10:58	827.6	3561.2	+0.81	724.19	710.07
STN 29N BASE-A	11:20	712.0	3997.3	+1.23	741.07	725.32

CALC. PROCEDURES
 STA. 29N.
 DATUM BASE A = 500' 19"
 INST READING = 709.0
 (INST READING) = 718.5
 STA. 29N
 Corrected reading =
 (TO BASE)
 $500 + (718.5 - 709.0) \times 0.083$
 $= 500.79$
~~Add for air~~ 506.79
 Add for air corr. =
 $3974 \times 0.060 = 238.0$
 500.79
 238.00
 738.79
 Add. lat corr 7.121
 738.79
 $+ 7.121$ (Waring sign)
 $740.00 = \text{Booyer}$
 Value for STA 29N.

To derive Comb. free Air
 + Booyer use
 $0.9406 - (0.01277 \times 0)$

AREA MAGUNDY RIVER

BOUGUER COMPUTATION SHEET

LYN GROUP

CLIENT KERR ADDISON

G. J. JONATONSKY

L 132

ELEVATION CORRECTION FACTOR 0.060

PROSPECT CORRECTION

MG

STA. NO.	BOOK PAGE	ELEV.	ELEV. CORR.	LAT. CORR.	OBS. GRAV.	TERR. CORR.	BOUG. GRAV.	RECHECK OBS. GRAV.	BOUG. GRAV.	DATE RUN	DATE RECHECK
<i>BASE A</i> 29N		3997.3	23.984	1.23	500.00		741.07			JUN 8 70	
29		3974.0	23.844	1.21	500.80		740.45				
30		3948.1	23.689	1.19	501.33		739.41				
31		3930.2	23.581	1.17	501.71		738.69				
32		3906.2	23.487	1.14	502.33		737.84				
33		3887.1	23.323	1.12	502.74		737.09				
34		3864.8	23.189	1.10	503.22		736.21				
35		3830.3	22.982	1.08	504.14		735.04				
36		3811.6	22.870	1.05	504.53		734.28				
37		3782.5	22.698	1.03	505.08		733.06				
38		3757.8	22.547	1.01	505.85		732.33				
39		3740.2	22.441	0.99	506.34		731.74				
40		3726.3	22.358	0.97	506.56		731.11				
41		3713.4	22.280	0.95	506.84		730.59				
42		3692.8	22.157	0.92	507.22		729.71				
43		3673.1	22.039	0.90	507.44		728.73				
44		3654.6	21.928	0.88	507.87		728.03				
45		3639.6	21.838	0.86	508.07		727.31				
46		3627.5	21.765	0.84	508.97		727.46				
47		3561.2	21.367	0.81	509.74		724.22	509.70	724.18		JUN 8 70
48		3556.2	21.337	0.79	510.24		724.40				
49		3482.6	20.896	0.77	511.69		721.42				
50		3431.0	20.586	0.75	513.10		719.71				
51		3368.4	20.210	0.73	514.76		717.59				
52		3318.5	19.9.11	0.71	515.72		715.54				
53		3289.4	19.736	0.68	516.44		714.48				
54		3260.9	19.565	0.66	517.28		713.59				
55		3233.6	19.402	0.64	517.87		712.53				
56		3214.5	19.287	0.62	518.63		712.12	518.62	712.11		JUN 8 70
57		3192.5	19.155	0.60	518.87		711.02				
58		3156.7	18.940	0.58	519.83		709.81				
59		3126.1	18.757	0.56	520.49		708.62				
60		3084.0	18.504	0.55	521.32		706.91				
61		3058.2	18.349	0.53	522.24		706.25				
62		3065.3	18.392	0.50	522.11		706.53				
63		3091.1	18.547	0.48	521.62		707.57				
64 N		3099.9	18.589	0.46	521.26		707.71				
27 N		4022.5	241.35	1.25	499.46		742.06				
26		4033.8	242.03	1.27	499.12		742.42				
25		4064.6	243.88	1.29	498.51		743.68				
24		4075.1	244.51	1.31	498.26		744.08				
23		4071.1	244.27	1.33	498.46		744.06				
22		4066.1	243.97	1.35	498.68		744.01				
21		4062.1	243.73	1.38	498.72		743.83				
20		4053.2	243.19	1.40	499.11		743.70				
19		4037.7	242.26	1.42	499.44		743.12				
18 N		4022.6	241.36	1.44	499.75		742.55				JUN 8 70

AREA MAGUNDT RIVER BOUGUER COMPUTATION SHEET

CLIENT KERR - ADDISON

ELEVATION CORRECTION FACTOR 0.06 PROSPECT CORRECTION _____ MG

STA. NO.	BOOK PAGE	ELEV.	ELEV. CORR.	LAT. CORR.	OBS. GRAV.	TERR. CORR.	BOUG. GRAV.	RECHECK OBS. GRAV.	BOUG. GRAV.	DATE RUN	DATE RECHECK
17 N		4005.5	240.33	1.46	500.59		742.18			JAN 8 70	
16		4003.2	240.19	1.48	500.53		742.20				
15		4006.6	240.40	1.50	500.41		742.31				
14		4008.0	240.48	1.52	500.38		742.38				
13		4001.3	240.06	1.54	500.63		742.23	500.54	742.14		JAN 8 70
12		3995.2	239.77	1.57	500.85		742.13				
11		3986.2	239.17	1.59	501.06		741.82				
10		3970.4	238.22	1.61	501.50		741.33				
9		3965.8	237.95	1.63	501.65		741.23				
8		3967.7	238.06	1.65	501.57		741.28				
7		3985.0	239.10	1.67	501.20		741.97				
6		4008.0	240.48	1.69	500.73		742.90				
5		4030.9	241.85	1.71	500.24		743.80				
4		4047.6	242.86	1.73	499.82		744.41				
3		4056.2	243.37	1.75	499.57		744.69				
2		4069.9	244.19	1.78	499.42		745.39				
1 N		4075.2	244.51	1.80	499.18		745.49				
00		4085.3	245.12	1.82	498.98		745.92				
1 S		4093.2	245.59	1.84	498.80		746.23				
2		4104.0	246.24	1.86	498.57		746.47				
3		4123.3	247.40	1.89	498.08		747.37				
4 S		4120.1	247.24	1.91	498.12		747.24			JAN 8 70	

Meter No. 806

L 134W

Date JUNE 8, 1970

Constant 0.08351

FIELD GRAVITY METER DATA

Operator _____

Area MAGUNDY RIVER.

Sta. No.	Time	Reading	Drift	Observed Gravity	Weather and Remarks
BASE A	9.20	709.0	0	500.00	
"	9.30	708.8	0	500.00	
		LINE #		134	
29 N	9.32	718.5	2 -1	500.80	
30 N	9.34	724.8	4 -1	501.33	
31 N	9.36	729.5	6 -2	501.71	
32	9.38	736.9	8 -2	502.33	
33	9.40	741.9	10 -3	502.74	
34	9.42	747.6	12 -3	503.22	
35	9.44	758.8	14 -4	504.14	
36	9.46	763.5	16 -5	504.53	
37	9.48	770.1	18 -5	505.08	
38	9.50	779.5	20 -6	505.85	
39	9.52	785.3	22 -6	506.34	
40	9.54	788.0	24 -7	506.56	
41	9.56	791.5	26 -8	506.84	
42	9.58	795.0	28 -8	507.22	
43	10.00	798.8	30 -9	507.44	
44	10.02	804.0	32 -9	507.87	
45	10.04	806.4	34 -10	508.07	
46	10.06	817.2	36 -10	508.97	
47	10.08	826.5	38 -11	509.74	
48	10.10	832.6	40 -12	510.24	
49	10.12	850.0	42 -12	511.69	
50	10.14	867.0	44 -13	513.10	
51	10.16	886.9	46 -13	514.76	
52	10.18	898.4	48 -14	515.72	
53	10.20	907.2	50 -15	516.44	
54	10.22	917.2	52 -15	517.22	
55	10.24	924.4	54 -16	517.87	
56	10.26	933.5	56 -16	518.63	
57	10.28	936.5	58 -17	518.87	
58	10.30	948.0	60 -17	519.83	

Meter No. 806

Date JUNE 8, 1970

Constant 0.08351

FIELD GRAVITY METER DATA

Operator _____

LINE# 134

Area ITAGUNDY RIVER

Sta. No.	Time	Reading	Drift	Observed Gravity	Weather and Remarks
59	10.32	956.0	62 -18	520.49	
60	10.34	966.0	64 -19	521.32	
61	10.35	977.0	66 -19	522.24	
62	10.38	975.5	68 -20	522.11	
63	10.40	969.7	70 -20	521.62	
64	10.42	965.5	72 -20	521.26	
R. 56 N	10.45	934.0	15 -22	518.62	Repeated station <u>-0.01</u>
R. 47 N	10.58	827.6	88 -26	509.70	do <u>-0.04</u>
BASE A	11.20	712.0	$\frac{11.0}{-3.2}$	500.00	
BASE A	11.50	712.0	0	500.00	
LINE# 134					
27 N	11.52	705.5	2 0	499.46	
26 N	11.54	701.4	4 +1	499.12	
25	11.56	694.0	6 +1	498.51	
24	11.58	691.0	8 +2	498.26	
23	12.00	693.4	10 +2	498.46	
22	12.02	696.0	12 +2	498.68	
21	12.04	696.4	14 +3	498.72	
20	12.06	701.0	16 +3	499.11	
19	12.08	705.0	18 +3	499.44	
18	12.10	708.6	20 +4	499.75	
17	12.12	716.3	22 +4	500.39	
16	12.14	717.9	24 +5	500.53	
15	12.16	715.4	26 +5	500.41	
14	12.18	716.0	28 +5	500.38	
13	12.20	718.9	30 +6	500.63	
12	12.22	721.6	32 +6	500.85	
11	12.24	724.1	34 +6	501.06	
10	12.26	729.3	36 +7	501.50	
9	12.28	731.0	38 +7	501.65	
8 N	12.30	730.0	40 +8	501.57	

